SHEET OF

DWG NO. -

TITLE OF PROJECT:

PICO BRANCH LIBRARY

2201 PICO BLVD
SANTA MONICA, CA 90404

ADDENDUM 2

PICO BRANCH LIBRARY
2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

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ARCHITECT'S PROJECT NO.
1001

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
COVER SHEET

SHEET NO.
A0.00

&	AND
<	ANGLE OR LESS THAN
@	AT
℄	CENTERLINE
ø	DIAMETER OR ROUND
$	DOLLAR (US CURRENCY)
#	NUMBER OR POUND
⊥	PERPENDICULAR
AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACT	ACOUSTICAL CEILING TILES
ACCES	ACCESSORIES
AD	AREA DRAIN
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANNUNC	ANNUNCIATOR
ANOD	ANODIZED
AP	ACCESS PANEL
APPL	APPLIANCE
APPROX	APPROXIMATELY
ARCH	ARCHITECTURE
ARCH'T	ARCHITECT
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BET/BTW	BETWEEN
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKT	BLANKET
BM	BEAM
BMU	BRICK MASONRY UNIT
BN	BOUNDARY NAIL
BO	BOTTOM OF
BOS	BOTTOM OF STRUCTURE
BRDG	BRIDGING
BRKT	BRACKET
BS	BOTH SIDES
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOFING
BYND	BEYOND
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
C/C	CENTER TO CENTER
CEM	CEMENT
CG	CORNER GUARD
CHBC	CALIFORNIA HISTORIC BUILDING CODE
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CORRG	CORRUGATED
CPT	CARPET
CS	COUNTER SINK
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER
D	DRYER
DBL	DOUBLE
DEG	DEGREES
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN or DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EF	EACH FACE
EG	EXISTING GRADE
EJ	EXPANSION JOINT
EL	ELEVATION, VERTICAL
ELAST	ELASTOMERIC
ELAST COAT'G	ELASTOMETRIC COATING

ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMBED	EMBEDD(ED)(ING)
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
ENG	ENGINEER
EP	ELECTRICAL PANEL
EQ	EQUAL SPACE
EQPT	EQUIPMENT
EXH	EXHAUST
EXIST'G / (E)	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
EXPO	EXPOSED
FA	FIRE ALARM
FAB	FABRICAT(E)(ION)
FB	FROM BELOW
FC	FINISHED CEILING
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIN	FINISH
FIX	FIXED
FIXT	FIXTURE
FL	FLOW LINE
FLSHNG	FLASHING
FLDNG	FOLDING
FLR or FLRG	FLOOR(ING)
FLUOR	FLUORESCENT
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STRUCTURE
FOW	FACE OF WALL
FP	FIREPLACE
FPRF	FIRE PROOF
FR	FIRE RAT(ED)(ING)
FRMG	FRAMING
FS	FLOOR SINK
FT	FOOT/FEET
FTNG	FOOTING
FUR	FURRING
FURN	FURNITURE
GA	GAUGE
GALV	GALVINIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GEN	GENERAL
GFRG	GLASS FIBER REINFORCED GYPSUM
GFRP	GLASS FIBER REINFORCED PLASTER
GL	GLASS
GLAZ	GLAZING
GLB	GLUE LAMINATED BEAM
GR	GRAD(E)(ING)
GR	GUARDRAIL
GRND	GROUND
GRTG	GRATING
GS	GRAVEL STOP
GSM	GALVINIZED SHEET METAL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GWB	GYPSUM WALL BOARD
HB	HOSE BIB
HC	HANDICAP or HOLLOW CORE
HCT	HOLLOW CLAY TILE
HD	HEAD
HDF	HIGH DENSITY FIBERBOARD
HDG	HOP DIPPED GALVANIZED
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HAND RAIL
HSS	HOLLOW STEEL SECTION
HTNG	HEATING
HW	HOT WATER
HVAC	HEATING/VENTILATION & AIR CONDITIONING
HVY	HEAVY
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUD(ED)(ING)
IE	INVERT ELEVATION
IF	INSIDE FACE
INFILTR	INFILTRATION
INFO	INFORMATION
INSTAL	INSTALL(ATION)
INSTRUC	INSTRUCTION
INSUL	INSULATION
INT	INTERIOR
INTERMED	INTERMEDIATE
INV	INVERT
JAN	JANITOR
JST	JOIST
JT	JOINT

K	KIP
KIT	KITCHEN
KP	KICK PLATE
L	LENGTH
LAV	LAVATORY
LBS or #	POUNDS
LF	LINEAL FEET
LH	LEFT HAND
LIN	LINEN
LL	LIVE LOAD
LO	LINE OF
LOBA	LINE OF BUILDING ABOVE
LP	LOW POINT
LT	LIGHT
LTWT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MF	MOMENT FRAME
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLWK	MILLWORK
MOIST	MOISTURE
MOT	MOTOR(IZED)
MTD	MOUNTED
MTL	METAL
MIX	MIXTURE
MULL	MULLION
(N)	NEW
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO or #	NUMBER
NTS	NOT TO SCALE
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER or OVERFLOW DRAIN
OFF	OFFICE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OS	OVERFLOW SCUPPER
OT	OUTLET
OSA	OUTSIDE AIR
OI	OVER JOIST
OVFL	OVERFLOW
OVHD	OVERHEAD
PA	PLANTING AREA
PBD	PARTICLE BOARD
PED	PEDESTRIAN
PERF	PERFORATED
PJ	POUR JOINT
PL	PROPERTY LINE or PLATE
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PLBNG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PP	POWER POLE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRVD	PROVIDED
PROJ	PROJECT
PSF	POUNDS PER SQ FT
PT	POINT
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RAD	RADIUS
RAH	ROOF ACCESS HATCH
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECIRC	RECIRCULATING
RECEP	RECEPTACLE
RECS	RECOMMENDATIONS
REF	REFERENCE or REFRIGERATOR
REG	REGISTER or REGULATION or REGULAR
REINF	REINFORCEMENT
REMOV	REMOVE
RESD'L	RESIDENTIAL
RESIL	RESILIENT
REQ'D	REQUIRED
REV	REVISED or REVISION

RF	ROOF
RFNG	ROOFING
RH	RIGHT HAND
RJ	ROOF JOIST
RND	ROUND
RM	ROOM
RO	ROUGH OPENING
ROD	ROOF OVERFLOW DRAIN
ROW	RIGHT OF WAY
RP	ROOF PLAN
RR	ROOF RAFTERS
RDWD	REDWOOD
S	SOUTH
SA	SUPPLY AIR
SC	SOLID CORE
SCHED	SCHEDULE
SCUP	SCUPPER
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FEET
SFL	SUB FLOOR
SGL	SINGLE
SHT	SHEET
SHRNG	SHORING
SIM	SIMILAR (NOT IDENTICAL)
SCD	SEE CIVIL DRAWINGS
SDNG	SIDING
SED	SEE ELECTRICAL DRAWINGS
SEW	SEWER
SHWR	SHOWER
SL	SLOPE
SLD	SEE LANDSCAPE DRAWINGS
SLCD	SEE LIGHTING CONSULTANT'S DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SOG	SLAB ON GRADE
S&P	SHELF AND POLE
SP	STANDPIPE
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATIONS
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS
SS	SELECT STRUCTURAL or STAINLESS STEEL
STD	STANDARD or STAINED
STL	STEEL
STOR	STORAGE
STRFR	STOREFRONT
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMETRICAL
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPERED or TEMPORARY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK	THICK(NESS)
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOP	TOP OF PARAPET
TOS	TOP OF STRUCTURE
TOSL	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TR	TREAD
TRTD	TREATED
TS	TUBULAR STEEL
TV	TELEVISION
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE or APPICABLE LOCAL BLDG CODE
UL	UNDERWRITERS LABORATORY
UNDRLAY	UNDERLAYMENT
UNO	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
UTIL	UTILITY
V	VOID
VB	VAPOR BARRIER
VCT	VINYL COMPOSITE TILE
VG	VERTICAL GRAIN
VGDF	VERTICAL GRAIN DOUGLAS FIR
VENT	VENTILATION
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WEST or WIDE FLANGE or WASHER
W/	WITH
WC	WATER CLOSET
WD	WOOD
W/D	WASHER AND DRYER
WF	WALL FURNACE
WGL	WIRE GLASS
WH	WATER HEATER or WEEP HOLE
WN	WINDOW
W/O	WITHOUT
WP	WATERPROOF(ING)
WPM	WATERPROOF MEMBRANE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WKPT	WORK POINT

ABBREVIATIONS | 6

PROJECT DESCRIPTION

NEW CONSTRUCTION OF A SINGLE STORY BRANCH LIBRARY WITHIN VIRGINIA AVENUE PARK IN SANTA MONICA.

THE PROPOSED BUILDING SITS ALONG THE SOUTH ELEVATION OF THE EXISTING THELMA TERRY BUILDING. THE 8,690 GSF STRUCTURE IS BROKEN UP INTO TWO MASSES CONNECTED BY A SINGLE ROOF. THE BUILDING WILL BE TYPE 5B CONSTRUCTION AND REQUIRED TO OBTAIN A MINIMUM LEED SILVER CERTIFICATION.

NO ADDITIONAL PARKING IS REQUIRED FOR THE PROJECT.THERE ARE 119 EXISTING PARKING STALLS AT THE PARK. THIS DOES NOT INCLUDE 69 OVERFLOW SPACES THAT OPEN UP FOR THE FARMER'S MARKET ON SATURDAY. SEE THE ATTACHED PLOT PLAN FOR EXISTING PARKING LOCATIONS.

NEW STRUCTURE IS SEPERATED FROM (E) THELMA TERRY BUILDING BY A 2 HOUR FIRE WALL.

PROJECT DATA

PROJECT:	PICO BRANCH LIBRARY
ADDRESS:	2201 Pico Boulevard Santa Monica, CA 90404
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PRINCIPAL IN CHARGE	JULIE EIZENBERG
PROJECT MANAGER	JENNIFER RIOS
APPLICABLE CODES	2010 CALIFORNIA BUILDING CODE (CBC) 2010 CALIFORNIA PLUMBING CODE 2010 CALIFORNIA MECHANICAL CODE 2010 CALIFORNIA ELECTRICAL CODE 2010 CAL GREEN BUILDING CODE
ZONING CODE	CITY OF SANTA MONICA PLANNING & ZONING 1998
REVIEWS	CITY COUNCIL PLANNING COMMISSION PUBLIC ART COMMITTEE ARTS COMMISSION ARCHITECTURAL REVIEW BOARD RECREATION & PARKS COMMISSION VIRGINIA AVENUE PARK BOARD
ZONE	DP - DESIGNATED PARKS DISTRICT, CUP
LOT AREA	PARK AREA: APPROX 414,691 SF (9.4 ACRES)
LOT COVERAGE	N/A
FLOOD ZONE	N/A
PARKING	NONE REQUIRED, SEE LETTERS OF APPROVAL A0.20
OPEN SPACE REQ	N/A
EASEMENTS & DEDICATIONS	NONE
SETBACKS	FRONT: NONE REAR: NONE SIDE: NONE
MAX ALLOWED BUILDING HEIGHT	30'-0"
BUILDING HEIGHT	VARIES, 25'-11" MAX, SINGLE STORY
BUILDING AREA	8,700 SF
OCCUPANCY	TABLE 3A - ASSEMBLY ASSEMBLY GROUP A-3 OFFICE GROUP B STORAGE GROUP S-2
CONSTRUCTION TYPE	CBC TABLE 5B - TYPE VB - FULLY SPRINKLED
MAX ALLOWABLE AREA = 6,000 (MOST RESTRICTIVE OCCUPANCY A-3) + 200% SPRINKLER CREDIT: 18,000 S.F.	
FIRE SPRINKLERS	REQUIRED. MONITORED IF OVER 100 SPRINKLER HEADS
FIRE ALARM SYSTEM	REQUIRED

PROJECT DATA | 4

GENERAL

A0.00	COVER SHEET
A0.10	PROJECT INFORMATION
A0.20	LETTERS OF APPROVAL
A0.30	CODE ANALYSIS & DIAGRAMS
A0.40	GENERAL NOTES
A0.50	ADA NOTES
A0.60	ADA NOTES & DIAGRAMS
A0.70	ADA DIAGRAMS

CIVIL

C0.10	TITLE SHEET
C1.00	EROSION CONTROL PLAN
C1.10	DEMOLITION PLAN
C1.20	GRADING DRAINAGE PLAN
C1.21	GRADING DRAINAGE PLAN
C1.30	PAVING AND HORIZONTAL CONTROL PLAN
C1.40	UTILITY PLAN
C5.00	DETAILS
C5.01	DETAILS

LANDSCAPE

L1.01A	HARDSCAPE PLAN
L1.01B	HARDSCAPE DIMENSION PLAN
L1.02	HARDSCAPE LEGEND
L1.03	HARDSCAPE DETAILS
L1.04	HARDSCAPE DETAILS
L1.05	HARDSCAPE DETAILS
L1.06	HARDSCAPE DETAILS
L1.07	ELEVATIONS
L1.08	SECTIONS
L2.01	IRRIGATION PLAN
L2.02	IRRIGATION LEGEND
L2.03	IRRIGATION DETAILS
1 L3.00	TREE PROTECTION PLAN
L3.01	PLANTING PLAN
L3.02	PLANTING LEGEND
L3.03	PLANTING DETAILS
L3.04	PLANTING DETAILS

ARCHITECTURAL

A1.00	SITE SURVEY
A1.00a	ENLARGED SITE SURVEY
A1.01	SITE DEMOLTION PLAN
A1.02	THELMA TERRY DEMOLITION PLANS & ELEVATIONS
A1.03	SITE PLAN
A1.04	STAGING PLAN
1 A1.04a	STAGING PLAN
A2.00	FOUNDATION / SLAB PLAN
A2.10	FLOOR PLAN
A2.20	ROOF PLAN
A3.00	EXTERIOR ELEVATIONS
A3.10	EXTERIOR ELEVATIONS
A4.00	BUILDING SECTIONS
A4.10	BUILDING SECTIONS
A4.20	BUILDING SECTIONS
A4.30	BUILDING SECTIONS
A4.40	BUILDING SECTIONS
A5.00	WALL SECTIONS
A5.10	WALL SECTIONS
A5.20	WALL SECTIONS
A5.30	WALL SECTIONS
A6.00	ENLARGED PLANS
A6.10	ENLARGED PLANS
A7.00	INTERIOR ELEVATIONS
A7.10	INTERIOR ELEVATIONS
A7.20	INTERIOR ELEVATIONS
A8.10	REFLECTED CEILING PLAN
A9.00	SITE DETAILS
A9.10	EXTERIOR DETAILS
A9.20	WALL/ ROOF/ FLOOR DETAILS
A9.21	WALL / ROOF/ FLOOR DETAILS
A9.22	WALL / ROOF/ FLOOR DETAILS
A9.23	WALL / ROOF/ FLOOR DETAILS
A9.30	WALL / ROOF / FLOOR ASSEMBLIES
A9.40	DOOR SCHEDULE
A9.41	DOOR DETAILS
A9.42	DOOR DETAILS
A9.50	WINDOW TYPES
A9.51	WINDOW DETAILS
A9.52	WINDOW DETAILS
A9.60	FINISH PLAN & SCHEDULE
A9.70	FURNITURE PLAN
A9.71	FURNITURE LEGEND
A9.80	MILLWORK DETAILS
A9.90	INTERIOR DETAILS

STRUCTURAL

S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	GENERAL NOTES
S0.04	ABBREVIATIONS
S1.00	FOUNDATION & GROUND FLOOR PLAN
S1.01	ROOF FRAMING PLAN
S2.01	ELEVATIONS
S2.03	SECTIONS
S3.01	TYPICAL CONCRETE DETAILS
S3.02	TYPICAL CONCRETE DETAILS
S3.03	FOUNDATION SECTIONS AND DETAILS
S3.04	FOUNDATION DETAILS
S5.01	TYPICAL STEEL COLUMN DETAILS
S5.02	TYPICAL STEEL BEAM DETAILS
S6.01	TYPICAL CMU DETAILS
S7.01	TYPICAL WOOD DETAILS AND SCHEDULES
S7.02	TYPICAL WOOD DETAILS
S7.03	TYPICAL WOOD WALL FRAMING DETAILS
S7.04	TYPICAL WOOD SHEARWALL DETAILS
S7.05	TYPICAL ROOF JOIST DETAILS
S7.06	TYPICAL ROOF DETAILS

MECHANICAL

M0.1	MECHANICAL LEAD SHEET
M0.2	MECHANICAL TITLE 24
M0.3	MECHANICAL TITLE 24
M0.4	MECHANICAL TITLE 24
M0.5	MECHANICAL TITLE 24
M1.0	MECHANICAL UNIT SCHEDULES
M2.0	MECHANICAL FLOOR PLAN
1 M2.1	MECHANICAL FLOOR PLAN (UNDERFLOOR)
M2.2	MECHANICAL ROOF PLAN
M4.0	MECHANICAL DETAILS

PLUMBING

P0.1	PLUMBING LEAD SHEET
P0.2	PLUMBING SCHEDULES
P2.0	PLUMBING PLAN
P2.1	ENLARGED PLUMBING PLANS
P2.2	PLUMBING ROOF PLAN

ELECTRICAL

E0.1	ELECTRICAL LEAD SHEET
E0.2	SINGLE LINE DIAGRAM/PANEL SCHEDULES
E0.3	TITLE24/LIGHTING FIXTURE SCHEDULE
E0.4	TITLE 24 LIGHTING
E0.5	LIGHTING CONTROL RISER DIAGRAM & SCHEDULES
E1.0	ELECTRICAL SITE PLAN
E2.0	POWER PLAN
E2.1	POWER ROOF PLAN
1 E3.0	LOWER LEVEL LIGHTING PLAN
E3.1	LOWER LEVEL LIGHTING PLAN
E3.2	LOWER LEVEL LIGHTING CONTROL ZONE PLAN
E3.3	CEILING LEVEL LIGHTING CONTROL ZONE PLAN
E5.1	PANELBOARD SCHEDULES
E5.2	LIGHTING CONTROL DIAGRAM

AV

AV0.01	GENERAL NOTES BOX SCHEDULE AND SHEET INDEX
AV0.02	ABBREVIATIONS NOTES AND SYMBOLS
AV1.01A	COMMUNITY ROOM EQUIPMENT PLAN
AV1.01B	COMMUNITY ROOM INFRASTRUCTURE PLAN
AV1.02A	LIBRARY EQUIPMENT PLAN
AV1.02B	LIBRARY IINFRASTRUCTURE PLAN
AV2.51	SECTIONS AND ELEVATIONS
AV3.00	WIRING SCHEME AND SYMBOL KEY
AV3.01	SCHEMATIC DIAGRAM
AV4.51	TYPICAL EQUIPMENT ROOM LAYOUT
AV6.01	AV DETAILS
AV6.02	AV DETAILS
AV6.03	AV DETAILS

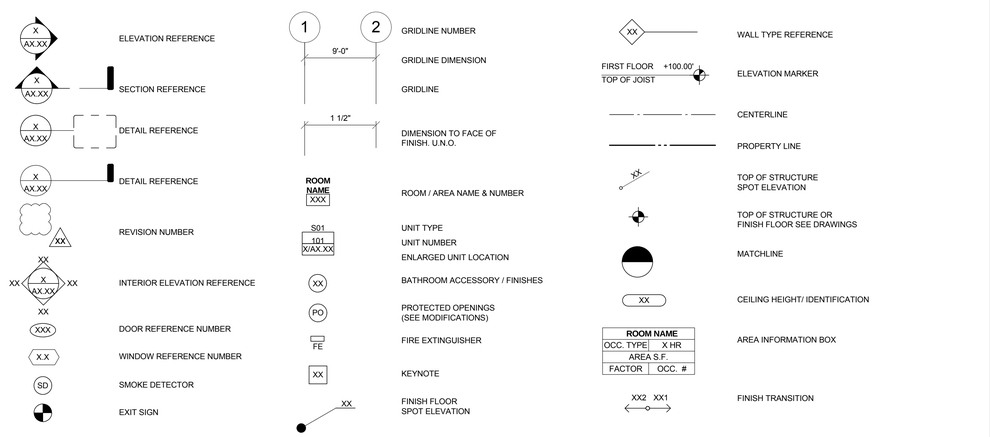
IT

T0.01	GENERAL NOTES BOX SCHEDULE AND SHEET INDEX
T0.02	ABBREVIATIONS NOTES AND SYMBOLS
T1.01	IT MAIN FLOOR PLAN
T2.01	IT REFLECTIVE CEILING PLAN
T4.51	IT EQUIPMENT ROOM LAYOUTS
T6.01	IT GROUNDING DETAILS
T6.02	IT DETAILS

GRAPHICS

G0	GENERAL NOTES
G1	SITE SIGN PLAN
G2	SIGN PLAN
G3	ELEVATION & DETAILS
G4	ELEVATION & DETAILS
G5	ELEVATION & DETAILS
G6	ELEVATION & DETAILS
G7	ELEVATION & DETAILS
G8	ELEVATION & DETAILS

SHEET INDEX | 2



GRAPHIC SYMBOLS | 5

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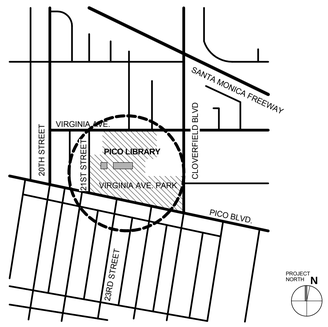
Ciaran O'Halloran, Principal
cpohalloran@cpohalloran.com

PROJECT TEAM | 3



VICINITY MAP | 1

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

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ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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architecture@smgov.net

DATE : 20
SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO.
6693

SHEET TITLE
PROJECT INFORMATION

SHEET NO.
A0.10

SHEET OF

DWG. NO. -

TITLE OF PROJECT

COPY

City of Santa Monica

CITY OF SANTA MONICA
CITY PLANNING DIVISION

ARCHITECTURAL REVIEW BOARD STATEMENT OF OFFICIAL ACTION

PROJECT

CASE NUMBER: ARB 11-354

LOCATION: 2200 Virginia Avenue

APPLICANT: City of Santa Monica

CASE PLANNER: Steve Mizokami, Associate Planner

REQUEST: Approval of design, colors and materials for the new Pico Branch Library located within Virginia Avenue Park.

CEQA STATUS: The project is exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15061 (b)(3) in that it can be seen with certainty that the proposed project does not have the potential for causing a significant effect on the environment in that the project involves the review of design-related issues associated with the proposed structures in terms of general architectural design, proposed materials, colors, mechanical screening and/or landscape plans.

ARCHITECTURAL REVIEW BOARD ACTION

October 17, 2011 Approved with conditions.

_____ Denied.

_____ Other.

EFFECTIVE DATE OF ACTION: October 28, 2011

Each and all of the findings and determinations are based on the competent and substantial evidence, both oral and written, contained in the entire record relating to the Project. All summaries of information contained herein or in the findings are based on the substantial evidence in the record. The absence of any particular fact from any such summary is not an indication that a particular finding is not based in part on that fact.

FINDINGS:

A. The plan for the proposed building or structure is expressive of good taste, good design, and in general contributes to the image of Santa Monica as a place of beauty, creativity and individuality in that the proposed library is contemporary in architectural style, is pedestrian-oriented, and includes expansive clear glazing panels along the south, east, and west walls that provide natural daylight and a visual connection to the park. The building includes a dynamic folded roof design with large projecting roof overhangs providing shaded areas for library and park visitors. The south building elevation would be shaded with a fabric canopy structure, providing additional shading essential for Farmers Market patrons. In addition to these sun-shading elements, a series of landscape improvements would further activate the areas surrounding the library facility. An amphitheater with terraced steps is designed adjacent to the south elevation of the community room that can accommodate small performances and seating for approximately 15 people, providing creativity site design. The proposed lighting plan would provide visitors with a sense of space and direction during evening hours, and would help display the leisurely areas surrounding the library building.

B. The proposed building or structure is not of inferior quality such as to cause the nature of the local neighborhood or environment to materially depreciate in appearance and value in that high quality material as detailed in the application submittal and as presented to the Architectural Review Board will be used.

C. The proposed design of the building or structure is compatible with developments on land in the general area in that the architectural design, proportions, scale, and materials of the proposed library buildings are consistent with the existing park buildings. The folded roof design was influenced by the roof designs found on the existing Park Center and Patio building on-site, providing a design compatibility with the existing structures. Furthermore, the building's expansive clear glazing panels would provide a strong visual connection between the library and park. The project would provide additional shading and leisurely areas, further enhancing the enjoyment of the park for visitors. The building's design establishes a relationship between the library use and park settings that would further enhance services for the neighborhood.

D. The proposed development conforms to the effective guidelines and standards adopted pursuant to Chapter 9.32 – *Architectural Review Board*, and all other applicable ordinances insofar as the location and appearance of the buildings and structures are involved. Specifically, the location and appearance of the

buildings and structures comply with required findings set forth in Chapter 9.32, as documented by the Architectural Review Board, and as conditioned, the plans will fully comply with all applicable regulations prior to the issuance of a building permit.

CONDITIONS:

1. This approval shall expire when the administrative or discretionary entitlements, not including any Subdivision Map approvals, previously granted for the project have lapsed. If no such entitlements have been granted, this approval shall expire eighteen (18) months from its effective date, unless appealed.

2. Prior to the issuance of a building permit, the applicant shall demonstrate that the plans comply with all applicable provisions of the Zoning Ordinance. Significant changes to a project's design shall require review and approval of the Architectural Review Board. Minor changes may be approved administratively pursuant to all applicable guidelines.

The Architectural Review Board's approval, conditions of approval, or denial of this application may be appealed to the Planning Commission if the appeal is filed with the Zoning Administrator within ten consecutive days following the date of the Architectural Review Board's determination in the manner provided in Chapter 9.32, Section 9.32.160.

VOTE

Ayes: Burton, Ellis, Griffin, Pearson, Robb, Chairperson Folonis
Nays: None
Abstain: None
Absent: Rothman

NOTICE

This decision may be appealed to the Planning Commission within ten (10) calendar days from the date of action, pursuant to SMMC Section 9.32.160. If the decision is not appealed, an application for plan check review may be submitted with the Building Division for the project.

Acknowledgement by Permit Holder
I hereby acknowledge that the building design, colors and materials are as specified in the final application submittal and as approved by the Architectural Review Board, or Planning Commission on appeal, are the approved plans. Any deviation from the approved plans, including, but not limited to changing any aspect of the design, colors, materials, finish, or adding new materials, features, equipment, or signs requires the prior approval of the Architectural Review Board. I agree to have the construction plans prepared in compliance with all pertinent details of the ARB approved plans. In the event of a conflict, the ARB approved Plans shall prevail over the construction plans. I

further acknowledge that failure to construct the project pursuant to the ARB approved plans is grounds for withholding final inspection and occupancy until such discrepancy(s) are resolved.

_____ _____
Print Name and Title Date

_____
Applicant / Authorized Representative Signature

I hereby certify that this Statement of Official Action accurately reflects the final determination of the Architectural Review Board of the City of Santa Monica.

Michael Folonis, Chairperson 10·31·2011
Date

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PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

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ARCHITECT'S PROJECT NO.
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ARCHITECT

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LETTERS OF APPROVAL - ARCHITECTURAL REVIEW BOARD | 2

City of Santa Monica
City Planning Division

CITY COUNCIL STATEMENT OF OFFICIAL ACTION

PROJECT INFORAMTION

CASE NUMBERS: Development Review Permit 11DR-002
Conditional Use Permit 11CUP-007
Variance 11VAR-011

LOCATION: 2200 Virginia Avenue

APPLICANT: City of Santa Monica

PROPERTY OWNER: City of Santa Monica

CASE PLANNER: Steve Mizokami, Associate Planner

REQUEST: Development Review Permit 11DR-002, Conditional Use Permit 11CUP-007, and Parking Variance 11VAR-011 to allow a new 8,630 square foot branch library (Pico Branch Library) located at Virginia Avenue Park.

CEQA STATUS: This request is exempt from the provisions of the California Environmental Quality Act (CEQA), pursuant to Section 15303 (Class 3), New Construction or Conversion of Small Structures, of the State Implementation Guidelines in that the project involves new construction not exceeding 10,000 square feet in area and is located in an urbanized area. The project consists of a public library building that consists of 8,630 square feet.

CITY COUNCIL ACTION

October 11, 2011 Determination Date
_____ Approved based on the following findings and subject to the

addition, as a part of the library operations, the library shall provide Santa Monica Big Blue Bus transit passes available for residents and visitors to purchase at the site. Four (4) secure bicycle parking spaces would be provided for library employees, with a minimum of eight (8) additional bicycle spaces for public use. Furthermore, to address the parking demand generated on Saturdays from the Farmers Market, a bike valet service would be provided for library visitors and market patrons, providing viable convenient and secure bike parking that would encourage neighborhood residents to use bicycle as an alternate mode of transportation to the site. Furthermore, in an effort to manage and ensure the most efficient use of the on-site parking on Saturdays, it is encouraged that library staff shall not utilize on-site parking on Saturdays concurrent with the Farmers Market. The TDM program has been added as Condition No. 1.

10. The strict application of the provisions of this Chapter would result in unreasonable deprivation of the use or enjoyment of the property in that due to existing parcel constraints, the location of existing improvements, and/or the placement of adjacent uses, practical use or enjoyment of the subject parcel would not be possible due to the inability to provide the additional parking spaces required on-site by the proposed library facility that is a compatible use within the district.

CONDITIONS OF APPROVAL:

PLANNING AND COMMUNITY DEVELOPMENT

Project Specific Conditions

1. As a part of a parking reduction plan for the project, the proposed TDM program shall consist of the following measures:

   1. Transportation Information Center, including Santa Monica Big Blue Bus Transit Pass Purchasing: The library shall maintain, for the life of the Project, a Transportation Information Center ("TIC") at the facility, providing a public outreach program that provides public transportation information. In addition, as a part of the library operations, the library shall provide Santa Monica Big Blue Bus transit passes available for residents and visitors to purchase at the site. The TIC shall include information such as current maps, routes, fare information, and schedules for public transit routes serving the site, bicycle routes, local maps, and bicycle safety information.

   2. Convenient and Secure Bicycle Storage for Employees: Four secured bicycle parking spaces shall be provided for Virginia Avenue Park or library employees. Secure bicycle parking shall mean bicycle lockers or a secure parking area.

   3. Employee Shower Facility: An existing unisex shower for staff located in the Park Center Building shall be available for library employees who bicycle or use another active means, powered by human propulsion, of getting to the site or who exercise during the work day.

   4. Public Bicycle Parking: Bicycle racks for public use shall contain space for a minimum of eight bicycles.

   5. Bike Valet Program: A bike valet service shall be provided for visitors of the library and Farmers Market patrons on Saturdays during market operating hours.

Administrative

2. The City Council's approval, conditions of approval, or denial of this application may not be appealed. The approval of this permit shall expire if the rights granted are not exercised within from the permit's effective date. Exercise of rights shall mean issuance of a building permit to commence construction.

3. Within ten days of City Planning Division transmittal of the Statement of Official Action, project applicant shall sign and return a copy of the Statement of Official Action prepared by the City Planning Division, agreeing to the conditions of approval and acknowledging that failure to comply with such conditions shall constitute grounds for potential revocation of the permit approval. By signing same, applicant shall not thereby waive any legal rights applicant may possess regarding said conditions. The signed Statement shall be returned to the City Planning Division. Failure to comply with this condition shall constitute grounds for potential permit revocation.

4. Within thirty (30) days after final approval of the project, a sign shall be posted on site stating the date and nature of the approval. The sign shall be posted in accordance with the Zoning Administrator guidelines and shall remain in place until a building permit is issued for the project. The sign shall be removed promptly when a building permit is issued for the project or upon expiration of the Design Compatibility Permit.

5. Prior to issuance of a Certificate of Occupancy, the applicant shall post a notice at the building entry stating that the site is regulated by a Conditional Use Permit and the Statement of Official Action, which includes the establishment's conditions of approval, is available upon request. This notice shall remain posted at all times the establishment is in operation.

6. In the event permittee violates or fails to comply with any conditions of approval of this permit, no further permits, licenses, approvals or certificates of occupancy shall be issued until such violation has been fully remedied.

Conformance with Approved Plans

7. This approval is for those plans dated October 11, 2011, a copy of which shall be maintained in the files of the City Planning Division. Project development shall be consistent with such plans, except as otherwise specified in these conditions of approval.

8. Minor amendments to the plans shall be subject to approval by the Director of Planning. A significant change in the approved concept shall be subject to City Council Review. Construction shall be in conformance with the plans submitted or as modified by the City Council, Architectural Review Board or Director of Planning.

9. Project plans shall be subject to complete Code Compliance review when the building plans are submitted for plan check and shall comply with all applicable provisions of Article IX of the Municipal Code and all other pertinent ordinances and General Plan policies of the City of Santa Monica prior to building permit issuance.

Cultural Resources

10. If any archaeological remains are uncovered during excavation or construction, work in the affected area shall be suspended and a recognized specialist shall be contacted to conduct a survey of the affected area at project's owner's expense. A determination shall then be made by the Director of Planning to determine the significance of the survey findings and appropriate actions and requirements, if any, to address such findings.

Project Operations

11. The operation shall at all times be conducted in a manner not detrimental to surrounding properties or residents by reason of lights, noise, activities, parking or other actions.

12. The project shall at all times comply with the provisions of the Noise Ordinance (SMMC Chapter 4.12).

Final Design

13. Plans for final design, landscaping, screening, trash enclosures, and signage shall be subject to review and approval by the Architectural Review Board.

14. The Architectural Review Board, in its review, shall pay particular attention to the project's pedestrian orientation and amenities; scale and articulation of design elements; exterior colors, textures and materials; window treatment; glazing; and landscaping.

15. The existing mature trees shall be preserved in their present location on site, relocated to a specific location on site or replaced with specimen trees to the satisfaction of the Architectural Review Board.

16. Landscaping plans shall comply with Subchapter 9.04.10.04 (Landscaping Standards) of the Zoning Ordinance including use of water-conserving landscaping materials, landscape maintenance and other standards contained in the Subchapter.

17. Refuse areas, storage areas and mechanical equipment shall be screened in accordance with SMMC Section 9.04.10.02.130, 140, and 150. Refuse areas shall be of a size adequate to meet on-site need, including recycling. The Architectural Review Board in its review shall pay particular attention to the screening of such areas and equipment. Any rooftop mechanical equipment shall be minimized in height and area, and shall be located in such a way as to minimize noise and visual impacts to surrounding properties. Unless otherwise approved by the Architectural Review Board, rooftop mechanical equipment shall be located at least five feet from the edge of the roof. Except for solar hot water heaters, no residential water heaters shall be located on the roof.

18. No gas or electric meters shall be located within the required front or street side yard setback areas. The Architectural Review Board in its review shall pay particular attention to the location and screening of such meters.

19. Prior to consideration of the project by the Architectural Review Board, the applicant shall review disabled access requirements with the Building and Safety Division and make any necessary changes in the project design to achieve compliance with such requirements. The Architectural Review Board, in its review, shall pay particular attention to the aesthetic, landscaping, and setback impacts of any ramps or other features necessitated by accessibility requirements.

20. As appropriate, the Architectural Review Board shall require the use of anti-graffiti materials on surfaces likely to attract graffiti.

Construction Plan Requirements

21. During demolition, excavation, and construction, this project shall comply with SCAQMD Rule 403 to minimize fugitive dust and associated particulate emission, including but not limited to the following:

- All material excavated or graded shall be sufficiently watered to prevent excessive amounts of dust. Watering shall occur at least three times daily with complete coverage, preferably at the start of the day, in the late morning, and after work is done for the day.
- All grading, earth moving, or excavation activities shall cease during periods of high winds (i.e., greater than 20 mph measured as instantaneous wind gusts) so as to prevent excessive amounts of dust.
- All material transported on and off-site shall be securely covered to prevent excessive amounts of dust.
- Soils stockpiles shall be covered.
- Onsite vehicle speeds shall be limited to 15 mph.
- Wheel washers shall be installed where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- An appointed construction relations officer shall act as a community liaison concerning onsite construction activity including resolution of issues related to PM_{10} generation.
- Streets shall be swept at the end of the day using SCAQMD Rule 1186 certified street sweepers or roadway washing trucks if visible soil is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water).
- All active portions the construction site shall be sufficiently watered three times a day to prevent excessive amounts of dust.

22. Final building plans submitted for approval of a building permit shall include on the plans a list of all permanent mechanical equipment to be placed indoors which may be heard outdoors.

Demolition Requirements

23. Until such time as the demolition is undertaken, and unless the structure is currently in use, the existing structure shall be maintained and secured by boarding up all openings, erecting a security fence, and removing all debris, bushes and planting that inhibit the easy surveillance of the property to the satisfaction of the Building and Safety Officer and the Fire Department. Any landscaping material remaining shall be watered and maintained until demolition occurs.

Construction Period

24. Immediately after demolition and during construction, a security fence, the height of which shall be the maximum permitted by the Zoning Ordinance, shall be maintained around the perimeter of the lot. The lot shall be kept clear of all trash, weeds, etc.

25. Vehicles hauling dirt or other construction debris from the site shall cover any open load with a tarpaulin or other secure covering to minimize dust emissions. Immediately after commencing dirt removal from the site, the general contractor shall provide the City of Santa Monica with written certification that all trucks leaving the site are covered in accordance with this condition of approval.

26. Developer shall prepare a notice, subject to the review by the Director of Planning and Community Development, that lists all construction mitigation requirements, permitted hours of construction, and identifies a contact person at City Hall as well as the developer who will respond to complaints related to the proposed construction. The notice shall be mailed to property owners and residents within a 200-foot radius from the subject site at least five (5) days prior to the start of construction.

27. A sign shall be posted on the property in a manner consistent with the public hearing sign requirements which shall identify the address and phone number of the owner and/or applicant for the purposes of responding to questions and complaints during the construction period. Said sign shall also indicate the hours of permissible construction work.

28. A copy of these conditions shall be posted in an easily visible and accessible location at all times during construction at the project site. The pages shall be laminated or otherwise protected to ensure durability of the copy.

29. Mechanical equipment shall not be located on the side of any building which is adjacent to a residential building on the adjoining lot, unless otherwise permitted by applicable regulations. Roof locations may be used when the mechanical equipment is installed within a sound-rated parapet enclosure.

30. Final approval of any mechanical equipment installation will require a noise test in compliance with SMMC Section 4.12.040. Equipment for the test shall be provided by the owner or contractor and the test shall be conducted by the owner or contractor. A copy of the noise test results on mechanical equipment shall be submitted to the Community Noise Officer for review to ensure that noise levels do not exceed maximum allowable levels for the applicable noise zone.

31. Construction period signage shall be subject to the approval of the Architectural Review Board.

32. The property owner shall insure any graffiti on the site is promptly removed through compliance with the City's graffiti removal program.

Hazardous Materials

35. Prior to the demolition of any existing structure, the applicant shall submit a report from an industrial hygienist to be reviewed and approved as to content and form by the Public Works /Environmental Programs Division. The report shall consist of a hazardous materials survey for the structure proposed for demolition. The report shall include a section on asbestos and in accordance with the South Coast AQMD Rule 1403, the asbestos survey shall be performed by a state Certified Asbestos Consultant (CAC). The report shall include a section on lead, which shall be performed by a state Certified Lead Inspector/Assessor. Additional hazardous materials to be considered by the industrial hygienist shall include: mercury (in thermostats, switches, fluorescent light); polychlorinated biphenyls (PCBs) (including light Ballast), and fuels, pesticides, and batteries.

Streets

36. Unless otherwise approved by the Department of Public Works, all sidewalks shall be kept clear and passable during the grading and construction phase of the project.

37. Sidewalks, curbs, gutters, paving and driveways which need replacing or removal as a result of the project as determined by the Department of Public Works shall be reconstructed to the satisfaction of the Department of Public Works. Approval for this work shall be obtained from the Department of Public Works prior to issuance of the building permits.

38. Street and/or alley lighting shall be provided on public rights of way adjacent to the project if and as needed per the specifications and with the approval of the Department of Public Works.

Off-site

39. All off-site improvements required by the City Engineer shall be installed. Plans and specifications for off-site improvements shall be prepared by a registered civil engineer and approved by the City Engineer.

40. A subdivision improvement agreement for all off-site improvements required by the City Engineer shall be prepared and a performance bond posted through the City Attorney's office.

Environmental Mitigation

41. To mitigate solid waste impacts, prior to issuance of a Certificate of Occupancy, project owner shall submit a recycling plan to the Department of Public Works for its approval. The recycling plan shall include:

   1) List of materials such as white paper, computer paper, metal cans, and glass to be recycled;
   2) Location of recycling bins;
   3) Designated recycling coordinator;
   4) Nature and extent of internal and external pick-up service;
   5) Pick-up schedule; and
   6) Plan to inform tenants/ occupants of service.

42. Ultra-low flow plumbing fixtures are required on all new development and remodeling where plumbing is to be added, including dual flush toilets, 1.0 gallon urinals and low flow shower heads.

Construction Period Mitigation

43. A construction period mitigation plan shall be prepared by the applicant for approval by the Department of Public Works prior to issuance of a building permit. The approved mitigation plan shall be posted on the site for the duration of the project construction and shall be produced upon request. As applicable, this plan shall:

   1) Specify the names, addresses, telephone numbers and business license numbers of all contractors and subcontractors as well as the developer and architect;
   2) Describe how demolition of any existing structures is to be accomplished;
   3) Indicate where any cranes are to be located for erection/construction;
   4) Describe how much of the public street, alleyway, or sidewalk is proposed to be used in conjunction with construction;
   5) Set forth the extent and nature of any pile-driving operations;
   6) Describe the length and number of any tiebacks which must extend under the property of other persons;
   7) Specify the nature and extent of any dewatering and its effect on any adjacent buildings;
   8) Describe anticipated construction-related truck routes, number of truck trips, hours of hauling and parking location;
   9) Specify the nature and extent of any helicopter hauling;
   10) State whether any construction activity beyond normally permitted hours is proposed;
   11) Describe any proposed construction noise mitigation measures, including measures to limit the duration of idling construction trucks;
   12) Describe construction-period security measures including any fencing, lighting, and security personnel;
   13) Provide a drainage plan;
   14) Provide a construction-period parking plan which shall minimize use of public streets for parking;
   15) List a designated on-site construction manager;
   16) Provide a construction materials recycling plan which seeks to maximize the reuse/recycling of construction waste;
   17) Provide a plan regarding use of recycled and low-environmental-impact materials in building construction; and
   18) Provide a construction period water runoff control plan.

OPEN SPACE MANAGEMENT

44. Street trees shall be maintained, relocated or provided as required in a manner consistent with the City's Community Forest Management Plan 2000, per the specifications of the Public Landscape Division of the Community Maintenance Department and the City's Tree Code (SMMC Chapter 7.40). No street trees shall be removed without the approval of the Public Landscape Division.

45. The applicant authorizes reasonable City inspection of the property to ensure compliance with the conditions of approval imposed by the City in approving this project and will bear the reasonable cost of these inspections as established by Santa Monica Municipal Code Section 2.72.010 and Resolution No. 9905 (CCS) or any successor legislation thereto. These inspections shall be no more intrusive than necessary to ensure compliance with conditions of approval.

VOTE

Ayes: Davis, Holbrook, McKeown, O'Connor, O'Day, Shriver, Mayor Bloom
Nays: None
Abstain: None
Absent: None

NOTICE

If this is a final decision not subject to further appeal under the City of Santa Monica Comprehensive Land Use and Zoning Ordinance, the time within which judicial review of this decision must be sought is governed by Code of Civil Procedure Section 1094.6, which provision has been adopted by the City pursuant to Municipal Code Section 1.16.010.

I hereby certify that this Statement of Official Action accurately reflects the final determination of the City Council of the City of Santa Monica.

Maria M Stewart 12-7-11
Maria Stewart Date

LETTERS OF APPROVAL - CITY COUNCIL | 1

City of Santa Monica
Architecture Services
1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

CONSULTANT

DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

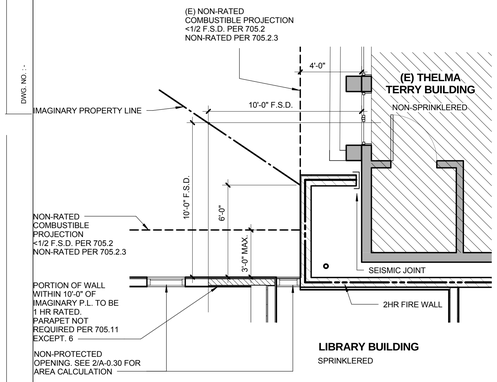
SHEET TITLE
LETTERS OF APPROVAL

SHEET NO.
A0.20

SHEET OF

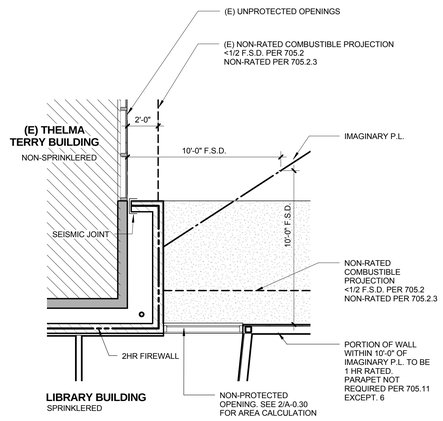
DWG. NO. -

TITLE OF PROJECT



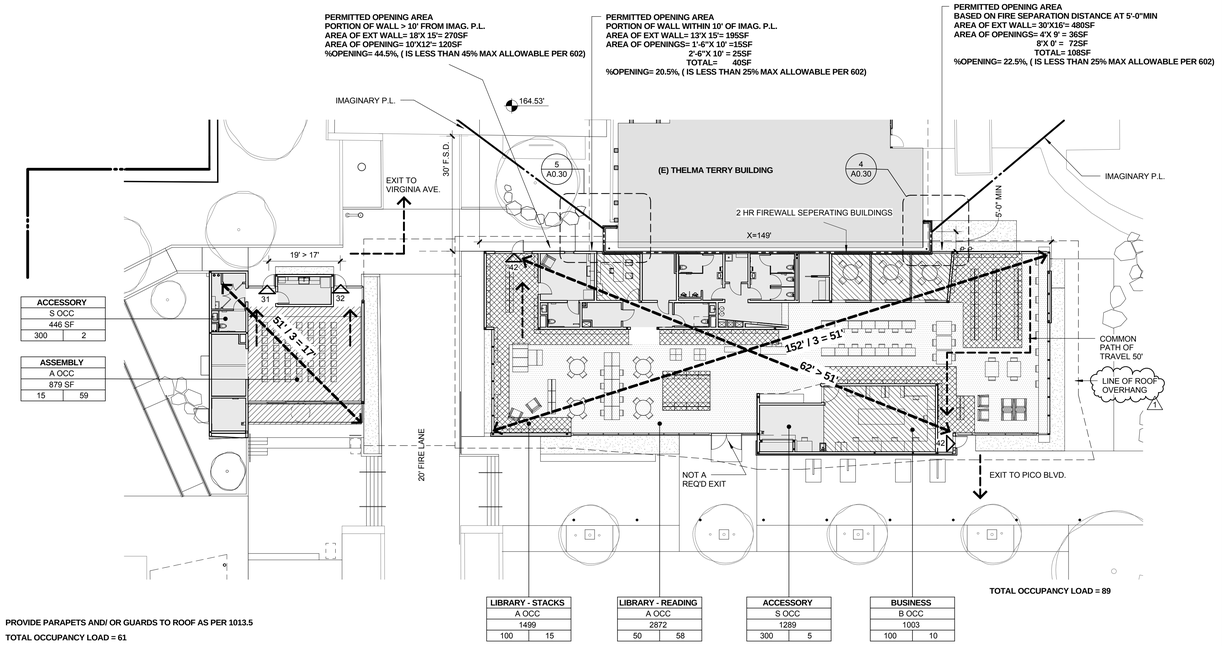
ESTABLISHED PER CBC 706.5.1 METHOD 2
F.S.D.= FIRE SEPARATION DISTANCE PER TABLE 602

FIRE WALL - WEST TERMINATION | 0 1' 2' 4' | 1/4" = 1'-0" | 5



ESTABLISHED PER CBC 706.5.1 METHOD 2
F.S.D.= FIRE SEPARATION DISTANCE PER TABLE 602

FIREWALL - EAST TERMINATION | 0 1' 2' 4' | 1/4" = 1'-0" | 4

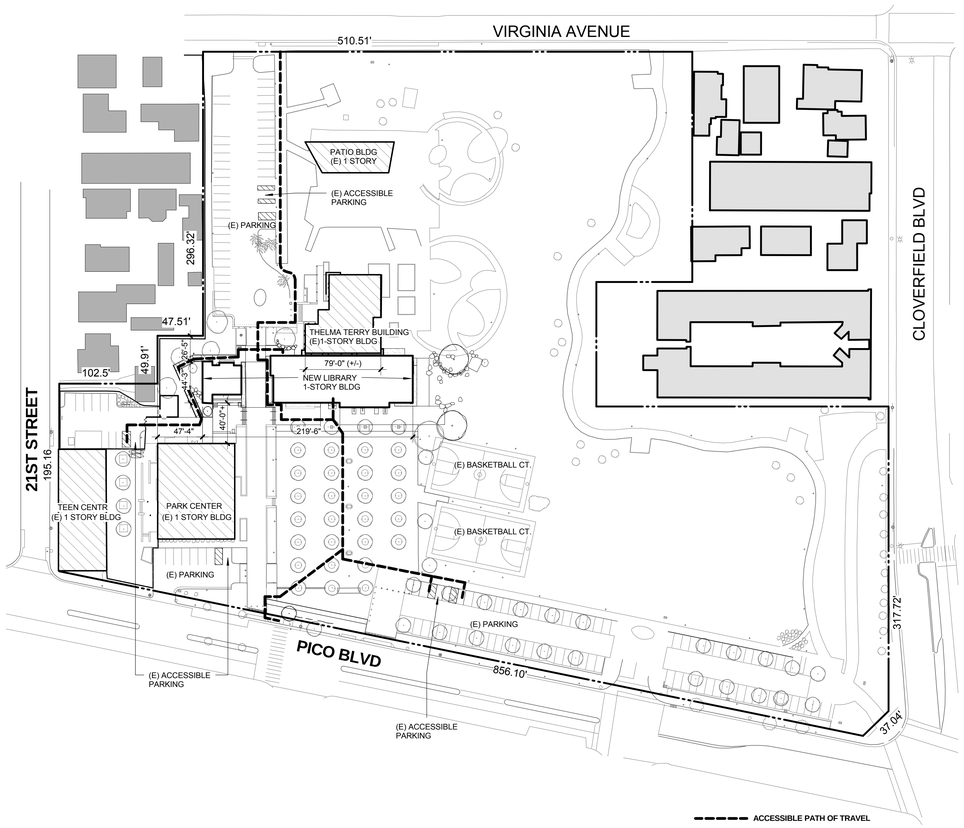


PROVIDE PARAPETS AND/ OR GUARDS TO ROOF AS PER 1013.5

TOTAL OCCUPANCY LOAD = 61

FRONTAGE INCREASE CALCULATION
If= F/P- 0.25/W/30 (W= 30. ONLY COUNTING FRONTAGE >30')
F= BUILDING PERIMETER w/ FRONTAGE >30' (P-X ABOVE)= 379'
P= BUILDING PERIMETER= 528'
If= 379/528 - .25= .467

MAIN FLOOR PLAN - OCCUPANCY AND EXIT DIAGRAM | 0 4' 8' 16' | 1/16" = 1'-0" | 2



PLOT PLAN & ACCESSIBLE ROUTES 1/64"= 1'-0" | 3

TABLE 508.2.5	
STORAGE ROOM < 100 SF	1 HR SEPERATION OR PROVIDE SPRINKLERS

OCCUPANCY SEPARATION
NON SEPERATED OCCUPANCIES PER 508.3

TABLE 601 FIRE RESISTANCE RATINGS		
	TYPE VB	
PRIMARY STRUCTURAL FRAME: FOOTNOTE A	0	
BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
NON-BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0	
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 0	

TABLE 602		
FIRE RATING OF EXTERIOR WALLS		
FIRE SEP. DISTANCE	CONSTRUCTION TYPE	OCC. A B C
X ≤ 5'	ALL	1 HR
5' ≤ x ≤ 10'	VB	1 HR
10' ≤ x ≤ 30'	VB	0

TABLE 705.8		
EXTERIOR WALL OPENINGS		
x < 3'	UNPROTECTED SPRINKLERED	NOT PERMITTED
3' - 5'	UNPROTECTED SPRINKLERED	15 %
5' -10'	UNPROTECTED SPRINKLERED	25 %
10' - 15'	UNPROTECTED SPRINKLERED	45 %

TABLE 1016.1		
MAX TRAVEL DISTANCE WITH SPRINKLER		
TYPE	A - E	250'
	B	300'

TABLE 1018.1 CORRIDOR RATING		
A - B	WITHOUT SPRINKLERED	NO RATING REQ'D

COMMON PATH OF EGRESS TRAVEL		
MAX TRAVEL DISTANCE WITH SPRINKLER		
TYPE	A	75'
	B	100'

CODE ANALYSIS:

1. BUILDING CONSIDERED 1 BUILDING CONNECTED BY TRELLIS 1
2. NEW BUILDING IS (TYPE V B SPRINKLERED) SEPERATED FROM (E) THELMA TERRY BY 2 HR FIREWALL PER CBC 706 TABLE 706.4 FOOTNOTE a.
3. LIMITED WORK WILL BE PERFORMED TO (E) "THELMA TERRY" BUILDING INCLUDING CUTTING BACK (E) FASCIA, RELOCATING UTILITIES, CLOSING OFF (E) WINDOWS, ADDING (N) SKYLIGHTS & SOME ADA IMPROVEMENTS.
4. AREA OF LIBRARY 8,700 SF 1
   TABULAR BUILDING AREA PER 503 FOR A-3 OCC = 6,000SF

   AREA INCREASE FOR AUTOMATIC SPRINKLER SYSTEM PER 506.3 = 300%

   FRONTAGE INCREASE (EQUATION 5.2) If= .467

   ALLOWABLE BUILDING AREA(EQUATION 5.1)
   = 6000 SF +(6000 x 3)+ (6000x .467)= 26,802SF
5. ENTIRE BUILDING IS CONSIDERED A NON-SEPARATED OCCUPANCY PER 508.3

PLUMBING REQUIREMENTS			
TABLE 4-1 2010 CA PLUMBING CODE (LOAD FACTOR DETERMINED BY TABLE 10-A)			
OCCUPANCY	SQ. FT.	LOAD FACTOR	100% M&F
GROUP A- ASSEMBLY	(SEE DIAGRAM ABV)		132
GROUP S- STORAGE			7
GROUP B- BUSINESS			11
TOTAL			150

FIXTURES REQUIRED (ASSEMBLY OR PUBLIC BUILDING)				
	WC	URINAL	LAV	DF
MALE OCC = 75	1	1	1	1
FEMALE OCC = 75	4	0	1	
FIXTURES PROVIDED (ASSEMBLY OR PUBLIC BUILDING)				
	WC	URINAL	LAV	DF
MALE OCC = 75	2	2	2	2
FEMALE OCC = 75	4	0	2	
EMPLOYEE FIXTURES	1	0	1	
TOTAL	7	2	5	

1

CODE DIAGRAM LEGEND

RM NAME
X — OCCUPANCY GROUP
X — ROOM AREA
XX XX — OCCUPANTS IN ROOM/AREA
OCCUPANCY LOAD FACTOR. SF/OCCUPANCY

ACCESSORY

ASSEMBLY, CONCENTRATED

BUSINESS

LIBRARY - STACKS

LIBRARY - READING ROOMS

CODE ANALYSIS/ INFORMATION | 1

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenbergArchitecture
1454 25th St, Santa Monica, CA 90404
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ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO.
6693

SHEET TITLE
CODE ANALYSIS & DIAGRAMS

SHEET NO.
A0.30

SHEET OF

DWG NO. -

TITLE OF PROJECT

SHEET OF

DWG. NO. : -

TITLE OF PROJECT :

COMMERCIAL ACCESSIBILITY PLAN REVIEW CHECKLIST
SITE, PEDESTRIAN WALKS, ENTRANCES & EXITS, SIGNS C

A. SITE DEVELOPMENT & ACCESSIBLE ROUTE OF TRAVEL

1. ACCESSIBLE ROUTE OF TRAVEL IS DEFINED AS "A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ALL ACCESSIBLE ELEMENTS AND SPACES IN AN ACCESSIBLE BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES, AND THAT IS CONSISTENT WITH THE DEFINITION OF "PATH OF TRAVEL". (1102B)

2. SITE DEVELOPMENT AND GRADING SHALL BE DESIGNED TO PROVIDE ACCESS TO ALL ENTRANCES AND EXTERIOR GROUND FLOOR EXITS, AND ACCESS TO NORMAL PATHS OF TRAVEL, AND WHERE NECESSARY TO PROVIDE ACCESS, SHALL INCORPORATE PEDESTRIAN RAMPS, CURB RAMPS, ETC. (1127B.1)

3. AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. THE ACCESSIBLE ROUTE SHALL, TO THE MAXIMUM EXTENT FEASIBLE, COINCIDE WITH THE ROUTE FOR THE GENERAL PUBLIC. (1114B.1.2)

4. THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN ACCESSIBLE BUILDING ENTRANCES, ACCESSIBLE SITE FACILITIES, AND THE ACCESSIBLE ENTRANCE TO THE SITE. IF ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PEDESTRIAN TUNNEL OR ELEVATED WALKWAY, ENTRANCES TO THE BUILDING FROM EACH TUNNEL OR WALKWAY MUST BE ACCESSIBLE. (1127B.1)

5. WHEN MORE THAN ONE BUILDING OR FACILITY IS LOCATED ON A SITE, ACCESSIBLE ROUTES OF TRAVEL COMPLYING WITH SECTION 1114B.1.2 SHALL BE PROVIDED BETWEEN BUILDINGS AND ACCESSIBLE SITE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. (1127B.1)

6. WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE OR ADAPTABLE, AN ACCESSIBLE ROUTE OF TRAVEL COMPLYING WITH SECTIONS 1102B, 1114B, 1124B, 1133B.3, 1133B.5, 1133B.7 AND 1133B.8.6 SHALL BE PROVIDED TO ALL PORTIONS OF THE BUILDING, TO ACCESSIBLE BUILDING ENTRANCES, AND BETWEEN THE BUILDING AND THE PUBLIC WAY. (1114B.1.2)

7. EXCEPT WITHIN AN INDIVIDUAL DWELLING UNIT, AN ACCESSIBLE ROUTE OF TRAVEL SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS OR OTHER SPACES USED FOR SIMILAR PURPOSES. (1114B.1.2)

8. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT THE FOLLOWING: (1114B.1.2)

A) ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS AND SPACES THAT ARE ON THE SAME SITE.

B) ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS AND WITH ALL ACCESSIBLE DWELLING UNITS WITHIN THE BUILDING OR FACILITY.

C) THE ACCESSIBLE ROUTE SHALL, TO THE MAXIMUM EXTENT FEASIBLE COINCIDE WITH THE ROUTE FOR THE GENERAL PUBLIC.

D) ACCESSIBLE ENTRANCE OF EACH ACCESSIBLE DWELLING UNIT WITH THOSE EXTERIOR AND INTERIOR SPACES AND FACILITIES THAT SERVE THE ACCESSIBLE DWELLING UNIT.

9. WHERE MORE THAN ONE ROUTE OF TRAVEL IS PROVIDED, ALL ROUTES SHALL BE ACCESSIBLE. (1114B.1.2)

B. ACCESSIBLE PARKING

1. EACH LOT OR PARKING STRUCTURE WHERE PARKING IS PROVIDED FOR THE PUBLIC AS CLIENTS, GUESTS OR EMPLOYEES, SHALL PROVIDE ACCESSIBLE PARKING AS REQUIRED BY SECTION 1129B. (1129B.1)

2. PROVIDE DISABLED PARKING SPACES AS REQUIRED BY TABLE 11B-6 FOR PARKING LOT/STRUCTURE. (1129B.1)

TOTAL # OF PARKING SPACES PROVIDED	MINIMUM # OF ACCESSIBLE SPACES REQUIRED
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401- 500	9
501-1000	2% OF TOTAL
1001 & OVER	20 PLUS ONE FOR EACH 100 OR FRACTION THEREOF OVER 1,001

3. AT FACILITIES PROVIDING MEDICAL CARE AND OTHER SERVICES FOR PERSONS WITH MOBILITY IMPAIRMENTS, PARKING SPACES COMPLYING WITH SECTION 1129B SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 11B-6, EXCEPT AS FOLLOWS: (1129B.2)

A) OUTPATIENT UNITS AND FACILITIES: 10% OF THE TOTAL NUMBER OF PARKING SPACES PROVIDED SERVING EACH SUCH OUTPATIENT UNIT OR FACILITY. (1129B.2.1)

B) UNITS AND FACILITIES THAT SPECIALIZE IN TREATMENT OR SERVICES FOR PERSONS WITH MOBILITY IMPAIRMENTS: 20% OF THE TOTAL NUMBER OF PARKING SPACES PROVIDED SERVING EACH SUCH UNIT OR FACILITY. (1129B.2.2)

4. ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE (AS NEAR AS PRACTICAL TO AN ACCESSIBLE ENTRANCE). (1129B.1)

5. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY. (1129B.1)

6. IN BUILDINGS WITH MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES. (1129B.1)

7. WHERE SINGLE ACCESSIBLE PARKING SPACES ARE PROVIDED, THEY SHALL BE 14 FEET WIDE AND LINED TO PROVIDE A 9-FOOT PARKING AREA AND A 5-FOOT LOADING AND UNLOADING ACCESS AISLE ON THE PASSENGER SIDE OF THE VEHICLE. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE GROUND WITHIN EACH 5- FOOT LOADING AND UNLOADING ACCESS AISLE. THIS NOTICE SHALL BE PAINTED IN WHITE LETTERS NOT LESS THAN 12 INCHES HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. (1129B.3.1, FIG 11B-18B)

8. WHEN MORE THAN ONE ACCESSIBLE PARKING SPACE IS PROVIDED IN LIEU OF PROVIDING A 14-FOOT-WIDE SPACE FOR EACH PARKING SPACE, TWO SPACES CAN BE PROVIDED WITHIN A 23-FOOT-WIDE AREA LINED TO PROVIDE A 9-FOOT PARKING AREA ON EACH SIDE OF A 5-FOOT LOADING AND UNLOADING ACCESS AISLE IN THE CENTER. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE GROUND WITHIN EACH 5-FOOT LOADING AND UNLOADING ACCESS AISLE. THIS NOTICE SHALL BE PAINTED IN WHITE LETTERS NOT LESS THAN 12 INCHES HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. (1129B.3.1, FIG 11B-18A & 18C)

9. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96 INCHES WIDE MINIMUM PLACED ON THE SIDE OPPOSITE THE DRIVER'S SIDE WHEN THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE AND SHALL BE DESIGNATED "VAN ACCESSIBLE". ALL SUCH SPACES MAY BE GROUPED ON ONE LEVEL OF A PARKING STRUCTURE. (1129B.3.2, FIG. 11B-18A, 18B, & 18C)

10. THE MINIMUM LENGTH OF AN ACCESSIBLE PARKING SPACE SHALL BE 18'. (1129B.3.1, FIG 11B-18A, 18B, & 18C)

11. ACCESSIBLE PARKING SPACES SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN. RAMP SHALL NOT ENCROACH INTO ANY ACCESSIBLE PARKING SPACE OR THE ADJACENT ACCESS AISLE. THE MAXIMUM CROSS SLOPE IN ANY DIRECTION OF AN ACCESSIBLE PARKING SPACE AND ADJACENT ACCESS AISLE SHALL NOT EXCEED 2 PERCENT. (1129B.3.3)

12. SURFACE SLOPES OF ACCESSIBLE PARKING SPACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED ONE UNIT VERTICAL TO 50-UNITS HORIZONTAL (2-PERCENT SLOPE) IN ANY DIRECTION. (1129B.3.4)

13. IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS OVER THE REQUIRED WIDTH OF WALKWAYS. (1129B.3.3, FIG 11B-18A, 18B, & 18C)

14. PEDESTRIAN WAYS WHICH ARE ACCESSIBLE TO PEOPLE WITH DISABILITIES SHALL BE PROVIDED FROM EACH SUCH PARKING SPACE TO RELATED FACILITIES, INCLUDING CURB CUTS OR RAMPS AS NEEDED. (1129B.3.3, FIG 11B-18A, 18B, & 18C)

15. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE ON A DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND, WHEN IN A PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. (1129B.4, FIG 11B-18A, 18B, & 18C)

16. SIGNS TO IDENTIFY ACCESSIBLE PARKING SPACES MAY BE CENTERED ON A WALL AT THE INTERIOR END OF THE PARKING SPACE. (1129B.4)

17. VAN ACCESSIBLE PARKING SPACES SHALL HAVE AN ADDITIONAL SIGN STATING "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY. (1129B.4)

18. AN ADDITIONAL SIGN SHALL ALSO BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL BE NOT LESS THAN 17 INCHES BY 22 INCHES IN SIZE WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING: (1129B.4)

19. "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT OR BY TELEPHONING ." (BLANK SPACES ARE TO BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART OF THE SIGN.)

B. ACCESSIBLE PARKING CONT'D

20. THE SURFACE OF EACH ACCESSIBLE PARKING SPACE OR STALL SHALL HAVE A SURFACE IDENTIFICATION DUPLICATING EITHER OF THE FOLLOWING SCHEMES: (1129B.4, FIG 11B-18A, 18B, & 18C)

A) BY OUTLINING OR PAINTING THE STALL OR SPACE IN BLUE AND OUTLINING ON THE GROUND IN THE STALL OR SPACE IN WHITE OR SUITABLE CONTRASTING COLOR A PROFILE VIEW DEPICTING A WHEELCHAIR WITH OCCUPANT; OR

B) BY OUTLINING A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON BLUE BACKGROUND. THE PROFILE VIEW SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE AND SHALL BE 36 INCHES HIGH BY 36 INCHES WIDE.

21. ALL ENTRANCES TO AND VERTICAL CLEARANCES WITHIN PARKING STRUCTURES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8-FEET 2-INCHES WHERE REQUIRED FOR ACCESSIBILITY TO ACCESSIBLE PARKING SPACES. (1130B)

C. PASSENGER DROP-OFF & LOADING ZONES

1. WHEN PROVIDED, PASSENGER DROP-OFF AND LOADING ZONES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE OF TRAVEL. (1131B.1)

2. WHERE PROVIDED, ONE PASSENGER DROP-OFF AND LOADING ZONE SHALL PROVIDE AN ACCESS AISLE AT LEAST 60 INCHES WIDE AND 20 FEET LONG ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE. VEHICLE STANDING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2 PERCENT) IN ALL DIRECTIONS. IF THERE ARE CURBS BETWEEN THE ACCESS AISLE AND THE VEHICLE PULL-UP SPACE, THEN A CURB RAMP SHALL BE PROVIDED. (1131B.2.1, FIG 11B-24)

3. PROVIDE MINIMUM VERTICAL CLEARANCE OF 114 INCHES AT ACCESSIBLE PASSENGER LOADING ZONES AND ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH AREAS FROM SITE ENTRANCES AND EXITS. (1131B.2.2)

4. VALET PARKING FACILITIES SHALL PROVIDE A PASSENGER LOADING ZONE COMPLYING WITH SECTION 1131B.2 AND SHALL BE LOCATED ON AN ACCESSIBLE ROUTE OF TRAVEL TO THE ENTRANCE OF THE FACILITY. THE PARKING SPACE REQUIREMENTS OF SECTION 1129B THROUGH 1130B APPLY TO FACILITIES WITH VALET PARKING. (1131B.3)

5. WHERE PROVIDED, BUS STOP PADS SHALL HAVE A FIRM, STABLE SURFACE WITH A MINIMUM CLEAR LENGTH OF 96 INCHES (MEASURED FROM THE CURB OR ROADWAY EDGE) AND A MINIMUM CLEAR WIDTH OF 60 INCHES (MEASURED PARALLEL TO THE VEHICLE ROADWAY) TO THE MAXIMUM EXTENT ALLOWED BY LEGAL OR SITE CONSTRAINTS. BUS STOP PADS SHALL CONNECT TO STREETS, SIDEWALKS OR PEDESTRIAN PATHS AS PART OF AN ACCESSIBLE ROUTE. NEWLY CONSTRUCTED BUS STOP PADS MUST PROVIDE A SQUARE CURB SURFACE BETWEEN THE PAD AND THE ROAD OR OTHER DETECTABLE WARNING APPROVED BY DEPARTMENT OF STATE ARCHITECT IN ACCORDANCE WITH SECTION 1133B.8.5. BUS STOP PADS SHALL BE AT THE SAME SLOPE AS THE ROADWAY IN THE DIRECTION PARALLEL TO THE ROADWAY AND A MAXIMUM 2% SLOPE PERPENDICULAR TO THE ROADWAY. (1121B.2.1)

6. WHERE PROVIDED, BUS STOP SHELTERS SHALL BE INSTALLED SO AS TO PERMIT A WHEELCHAIR USER TO ENTER THE SHELTER FROM THE PUBLIC WAY AND ACCESS A CLEAR FLOOR AREA OF 30 INCHES BY 48 INCHES, COMPLETELY WITHIN THE SHELTER. SUCH SHELTERS SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE TO THE BOARDING AREA. (1121B.2.1)

D. WALKS & SIDEWALKS

1. WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING ½". (1133B.7.1)

2. WALKS AND SIDEWALKS SHALL BE 48" MINIMUM IN WIDTH. (1133B.7.1, FIG 11B-27(A))

3. WHEN CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL TO 2 UNITS HORIZONTAL (50 PERCENT), EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. (1133B.7.4, FIG 11B-5E(C) & (D))

4. WHEN ABRUPT CHANGES IN LEVEL GREATER THAN ½" ARE NECESSARY; THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS. (1133B.7.4)

5. WALK AND SIDEWALK SURFACES SHALL BE SLIP-RESISTANT AS FOLLOWS: (1133B.7.1)

A) SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST A SLIP - RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH. (1133B.7.1.1)

B) SURFACES WITH A SLOPE OF 6% OR GREATER GRADIENT SHALL BE SLIP-RESISTANT. (1133B.7.1.2)

6. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS ONE VERTICAL TO 20 UNITS HORIZONTAL (5 PERCENT GRADIENT), IT SHALL COMPLY WITH THE PROVISIONS OF SECTION 1133B.5. (1133B.7.3)

7. WALK AND SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT. (1133B.7.1.3)

8. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5 FEET IN LENGTH AT INTERVALS OF AT LEAST EVERY 400 FEET. (1133B.7.6)

9. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60 INCHES BY 60 INCHES AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48 INCHES WIDE BY 44 INCHES DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. (1133B7.5, FIG 11B-26A & 26B)

10. LEVEL AREA OF WALKS SHALL EXTEND 24 INCHES TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK. (1133B.7.5, FIG 11B-26B)

11. WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE LIMITED TO ½" IN THE DIRECTION OF TRAFFIC FLOW. IF GRATINGS HAVE ELONGATED OPENINGS, THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (1133B7.2, FIG 11B-7E(A))

E. CURB RAMPS

CURB RAMP IS DEFINED AS "A SLOPING PEDESTRIAN WAY, INTENDED FOR PEDESTRIAN TRAFFIC, WHICH PROVIDES ACCESS BETWEEN A WALK OR SIDEWALK TO A SURFACE LOCATED ABOVE OR BELOW AN ADJACENT CURB FACE". (1102B)

1. CURB RAMPS SHALL BE CONSTRUCTED AT EACH CORNER OF STREET INTERSECTIONS WHERE A PEDESTRIAN WAY CROSSES A CURB. THE PREFERRED AND RECOMMENDED LOCATION FOR CURB RAMPS IS IN THE CENTER OF THE CROSSWALK OR EACH STREET CORNER. WHERE IT IS NECESSARY TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSWALKS, THE LOWER END OF THE CURB RAMP SHALL TERMINATE WITHIN SUCH CROSSWALK AREAS. (SEC 1127B.5.1, FIG 11B-20C AND 11B-22.)

2. PROVIDE A CURB RAMP AT ________________(1127B.5.1)

3. CURB RAMPS SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND SHALL LIE, GENERALLY, IN A SINGLE SLOPED PLANE, WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE. (1127B.5.2)

4. THE SLOPE OF CURB RAMPS SHALL NOT EXCEED ONE UNIT VERTICAL TO 12 UNITS HORIZONTAL (8.33 PERCENT SLOPE). (1127B.5.3)

5. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. (1127B.5.3)

6. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP OR ACCESSIBLE ROUTE, SHALL NOT EXCEED ONE UNIT VERTICAL TO 20 UNITS HORIZONTAL (5 PERCENT SLOPE) WITHIN 4 FEET OF THE TOP AND BOTTOM OF THE CURB RAMP. THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED ONE UNIT VERTICAL TO 10 HORIZONTAL (10 PERCENT SLOPE). (1127B.5.3)

7. A LEVEL LANDING 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE, OR THE SLOPE OF THE FANNED OR FLARED SIDES OF THE CURB RAMP SHALL NOT EXCEED ONE UNIT VERTICAL TO 12 UNITS HORIZONTAL (8.33 PERCENT SLOPE). (1127B.5.4)

8. THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL COMPLY WITH SECTION 1124B, GROUND AND FLOOR SURFACES, AND SHALL BE OF CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK. (1127B.5.5)

9. ALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE APPROXIMATELY 3/4" ON CENTER. ALL CURB RAMPS CONSTRUCTED BETWEEN THE FACE OF THE CURB AND THE STREET SHALL HAVE A GROOVED BORDER AT THE LEVEL SURFACE OF THE SIDEWALK. (1127B.5.6, FIG. 11B-19A & 19B)

10. CURB RAMPS SHALL HAVE A DETECTABLE WARNING THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE CURB RAMP, EXCLUDING THE FLARED SIDES, INSIDE THE GROOVED BORDER. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH AT THE BASE TAPERING TO 0.45 INCH AT THE TOP, A HEIGHT OF NOMINAL 0.2 INCH, AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES, IN COMPLIANCE WITH FIGURE 11B-23A. "NOMINAL" HERE SHALL BE IN ACCORDANCE WITH SECTION 12-11A AND B-102, STATE REFERENCED STANDARDS CODE. THE DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS, INCLUDING CAST-IN-PLACE OR STAMPED, OR MAY BE PART OF A PREFABRICATED SURFACE TREATMENT. ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, ARTICLES 2, 3, AND 4. (1127B.5.7)

11. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES. (1127B.5.8)

F. PEDESTRIAN GRADE SEPARATIONS (OVERPASSES AND UNDERPASSES)

1. PEDESTRIAN RAMPS ON PEDESTRIAN GRADE SEPARATIONS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1133B.5 FOR RAMPS. (1128B)

2. CROSS SLOPES OF WALKING SURFACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED ¼ INCH PER FOOT. THE SLOPE OF ANY APPRECIABLY WARPED WALKING SURFACE SHALL NOT EXCEED 1 UNIT VERTICAL IN 12 UNITS HORIZONTAL IN ANY DIRECTION. (1128B)

3. WHERE PEDESTRIAN GRADE SEPARATIONS CROSS STREETS OR OTHER VEHICULAR TRAFFIC WAYS, AND WHERE A STREET LEVEL CROSSING CAN REASONABLY AND SAFELY BE USED BY PERSONS WITH DISABILITIES, THERE SHALL BE PROVIDED CONFORMING.

G. RAMPS (EXTERIOR OR INTERIOR)

1. ANY PATH OF TRAVEL SHALL BE CONSIDERED A RAMP IF ITS SLOPE IS GREATER THAN 1' RISE IN 20' OF HORIZONTAL RUN. (1133B.5.1)

2. THE MAXIMUM SLOPE OF A RAMP THAT SERVES ANY EXIT WAY, PROVIDES ACCESS FOR PERSONS WITH PHYSICAL DISABILITIES, OR IS IN THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE 1 FOOT RISE IN 12 FEET OF HORIZONTAL RUN (8.3 PERCENT GRADIENT). THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. (1133B.5.3)

3. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50. (1133B.5.3.1)

4. PEDESTRIAN RAMPS SHALL HAVE A MINIMUM CLEAR WIDTH OF 48 INCHES, UNLESS REQUIRED TO BE WIDER BY SOME OTHER PROVISION OF THIS CODE. (1133B.5.2)

5. WHERE A PEDESTRIAN RAMP IS THE ONLY EXIT DISCHARGE PATH SERVING ENTRANCES TO BUILDINGS OR WHEN IT SERVES AN OCCUPANT LOAD OF 300 OR MORE, THE RAMP SHALL HAVE A MINIMUM CLEAR WIDTH OF 60 INCHES. (1133B.5.2)

6. LEVEL LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH RAMP. (1133B.5.4.1, FIG 11B-38 & 39)

7. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION. (1133B.5.4.1, FIG 11B-38 & 39)

8. TOP LANDINGS SHALL BE NOT LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN. LANDINGS AT THE BOTTOM OF RAMPS SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMP RUN OF NOT LESS THAN 72 INCHES. (1133B.5.4.2, FIG 11B-38 & 39)

9. DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42 INCHES AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3 INCHES WHEN FULLY OPEN. (1133B.5.4.3, FIG 11B-39(B))

10. THE WIDTH OF THE LANDING SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR RAMPS.(1133B.5.4.4, FIG 11B-39)

11. ALL RAMP LANDINGS SHALL BE LEVEL WITH MAXIMUM SLOPE IN ANY DIRECTION NOT TO EXCEED ¼ INCH PER FOOT (2.083 PERCENT SLOPE). (1133B.5.4.1, 1102B)

12. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR THE RAMP. (1133B.5.4.5, FIG 11B-38 & 39)

13. INTERMEDIATE AND BOTTOM LANDINGS AT A CHANGE OF DIRECTION IN EXCESS OF 30 DEGREES SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMP RUN OF NOT LESS THAN 72 INCHES TO ACCOMMODATE THE HANDRAIL EXTENSION. (1133B.5.4.6, FIG 11B-38)

14. OTHER INTERMEDIATE LANDINGS SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMP RUN OF NOT LESS THAN 60 INCHES. (1133B.5.4.7, FIG 11B-38)

15. HANDRAILS ARE REQUIRED ON RAMPS THAT PROVIDE ACCESS IF THE RAMP SLOPE EXCEEDS 1 FOOT RISE IN 20 FEET OF HORIZONTAL RUN (5 PERCENT GRADIENT), EXCEPT THAT AT EXTERIOR DOOR LANDINGS, HANDRAILS ARE NOT REQUIRED ON RAMPS LESS THAN 6 INCHES RISE OR 72 INCHES IN LENGTH. (1133B.5.5.1)

16. HANDRAILS SHALL BE PLACED ON EACH SIDE OF EACH RAMP, SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP, SHALL BE 34 TO 38 INCHES ABOVE THE RAMP SURFACE TO THE TOP OF THE HANDRAILS, SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND THE TOP AND BOTTOM OF THE RAMP, AND SHALL PARALLEL THE FLOOR OR GROUND SURFACE. HANDRAILS SHALL ALWAYS BE CONTINUOUS AND THE ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO THE FLOOR, WALL OR POST. (1133B.5.5.1, FIG 11B-27(B) & (C))

17. THE GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1 1/4 INCHES NOR MORE THAN 1-1/2 INCHES IN CROSS SECTIONAL NOMINAL DIMENSION, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE, AND ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS. (1133B.5.5.1, FIG 11B-36)

G. RAMPS (EXTERIOR OR INTERIOR)

18. HANDRAIL PROJECTING FROM A WALL SHALL HAVE A SPACE OF 1 1/2 INCHES BETWEEN THE WALL AND THE HANDRAIL.(1133B.5.5.1, FIG 11B-36)

A) HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3 INCHES DEEP AND EXTENDS AT LEAST 18 INCHES ABOVE THE TOP OF THE RAIL. (1133B.5.5.1, FIG 11B-36)

B) ANY WALL OR OTHER SURFACE ADJACENT TO HANDRAILS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH. (1133B.5.5.1, FIG 11B-36)

19. WHERE THE RAMP SURFACE IS NOT BOUNDED BY A WALL, THE RAMP SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS. (1133B.5.6, FIG 11B-27(B) & (C))

A) A GUIDE CURB A MINIMUM OF 2 INCHES IN HEIGHT SHALL BE PROVIDED AT EACH SIDE OF THE RAMP; (1133B.5.6.1) OR

B) A WHEEL GUIDE RAIL SHALL BE PROVIDED, CENTERED 3 INCHES, PLUS OR MINUS 1 INCH ABOVE THE SURFACE OF THE RAMP. (1133B.5.6.2)

20. IN EXISTING BUILDINGS OR FACILITIES WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF THE RAMP RUN WOULD CREATE A HAZARD, THE EXTENSION MAY BE TURNED 90 DEGREES TO THE RUN OF THE RAMP. (1133B.5.5.1.1, 1133B.4.2.4)

21. RAMPS MORE THAN 30" ABOVE THE ADJACENT GROUND SHALL BE PROVIDED WITH GUARDS THAT COMPLY WITH SECTION 1013. SUCH GUARDS SHALL BE CONTINUOUS FROM THE TOP OF THE RAMP TO THE BOTTOM OF THE RAMP. (1133B.5.7)

H. ENTRANCES & EXITS

EXIT AS DEFINED IS "THAT PORTION OF A MEANS OF EGRESS SYSTEM WHICH IS SEPARATED FROM OTHER INTERIOR SPACES OF A BUILDING OR STRUCTURE BY FIRE-RESISTANCE-RATED CONSTRUCTION AND OPENING PROTECTIVES AS REQUIRED TO PROVIDE A PROTECTED PATH OF EGRESS TRAVEL BETWEEN THE EXIT ACCESS AND THE EXIT DISCHARGE. EXITS INCLUDE EXTERIOR EXIT DOORS AT GROUND LEVEL, EXIT ENCLOSURES, EXIT PASSAGEWAYS, EXTERIOR EXIT STAIRS, EXTERIOR EXIT RAMPS AND HORIZONTAL EXITS." (1002.1)

PUBLIC WAY AS DEFINED IS "A STREET, ALLEY OR OTHER PARCEL OF LAND OPEN TO THE OUTSIDE AIR LEADING TO A STREET, THAT HAS BEEN DEEDED, DEDICATED OR OTHERWISE PERMANENTLY APPROPRIATED TO THE PUBLIC FOR PUBLIC USE AND WHICH HAS A CLEAR WIDTH AND HEIGHT OF NOT LESS THAN 10 FEET." (1002.1)

1. ALL ENTRANCES AND EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES. (1133B.1.1.1.1)

2. REVOLVING DOORS SHALL NOT BE USED AS A REQUIRED ENTRANCE FOR PERSONS WITH DISABILITIES. (1133B.2.3.3)

3. DURING PERIODS OF PARTIAL OR RESTRICTED USE OF A BUILDING OR FACILITY, THE ENTRANCES USED FOR PRIMARY ACCESS SHALL BE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES. (1133B.1.1.1.2)

4. RECESSED DOORMATS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIR TRAFFIC. (1133B.1.1.1.3, FIG 11B-25)

5. ALL GATES, INCLUDING TICKET GATES, SHALL MEET ALL APPLICABLE ACCESSIBILITY SPECIFICATIONS OF DOORS. (1133B.1.1.1.4)

6. EVERY REQUIRED EXIT DOORWAY SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES, SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES, AND SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. (1133B.2.2)

7. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENINGS IN A VESTIBULE, SERVING OTHER THAN A REQUIRED EXIT STAIRWAY, SHALL PROVIDE A MINIMUM OF 48 INCHES OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH VESTIBULE WHEN THE DOOR IS POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. DOORS IN A SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS. SEE FIGURES 11B-30 & 11B-31. (1133B.2.4.4)

I. DOORS

1. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. MANUALLY OPERATED BOLTS OR SURFACE BOLTS ARE NOT PERMITTED. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. (1008.1.8)

2. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (1133B.2.5.2)

3. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR. (1133B.2.5.2)

4. WHEN INSTALLED, DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES WITH THE DOOR OPEN 90 DEGREES. (1133B.1.1.1.1, FIG 11B -5B & 11B-33)

5. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. (1133B.2.3, FIG 11B-5B)

6. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. (1133B.2.3.1)

7. WHEN AN AUTOMATIC OR POWER ASSISTED DOOR OPERATOR IS UTILIZED TO OPERATE A PAIR OF DOORS, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AUTOMATIC DOORS SHALL COMPLY WITH BHMA A156.10 OR BHMA A156.19. (1133B.2.3.2)

8. MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL BE AS SHOWN IN FIGURE 11B-26A & 11B-26B. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR. (1133B.2.4.2)

9. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION. WHERE THE PLANE OF THE DOORWAY IS OFFSET OR LOCATED IN AN ALCOVE A DISTANCE MORE THAN 8 INCHES MEASURED FROM THE PLANE OF THE DOORWAY TO THE FACE OF THE WALL, THE DOOR SHALL BE PROVIDED WITH 60" MANEUVERING CLEARANCE FOR FRONT APPROACH. (1133B.2.4.2, 1133B.2.5.3, FIG 11B-26, FIG 11B-33A)

I. DOORS (CONT'D)

10. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. WHERE THE PLANE OF THE DOORWAY IS OFFSET 8 OR MORE INCHES FROM ANY OBSTRUCTION WITHIN 18 INCHES MEASURED LATERALLY ON THE LATCH SIDE, THE DOOR SHALL BE PROVIDED WITH MANEUVERING CLEARANCE FOR FRONT APPROACH. (1133B.2.4.3, 1133B.2.4.5, 1133B.2.5.3, FIG 11B-33(A))

11. PROVIDE CLEAR SPACE OF 12" PAST STRIKE EDGE OF THE DOOR ON THE OPPOSITE SIDE TO WHICH THE DOOR SWINGS IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER. (FIG 11B-26(A))

12. THE FLOOR OR LANDING SHALL BE NOT MORE THAN ½ INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. (1133B.2.4.1)

13. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. (1133B.2.6, FIG 11B-29)

14. MAXIMUM EFFORT TO OPERATE EXTERIOR AND INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBF. (1133B.2.5)

15. WHEN THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR. (1133B.2.5.1)

16. WHERE TURNSTILES AND CROWD CONTROL BARRIERS ARE UTILIZED IN A FACILITY FOR THE PURPOSE OF PROVIDING FULLY CONTROLLED ACCESS, SUCH AS WHERE AN ADMISSION PRICE IS CHARGED, A DOOR OR GATE THAT IS ACCESSIBLE TO PERSONS WITH DISABILITIES SHALL BE PROVIDED ADJACENT TO EACH TURNSTILE EXIT OR ENTRANCE. THIS ALTERNATE PASSAGEWAY SHALL BE MAINTAINED IN AN UNLOCKED CONDITION DURING BUSINESS HOURS AND THE DOOR OR GATE SHALL NOT ACTIVATE A PUBLICLY AUDIBLE ALARM SYSTEM. THE DOOR OR GATE MAY BE LATCHED WHERE ALL GATES ARE RESTRICTED AND CONTROLLED BY AN ATTENDANT AND A SIGN IS POSTED STATING, "ALL GATES ARE RESTRICTED AND CONTROLLED BY AN ATTENDANT." THE ACCESSIBLE DOOR OR GATE SHALL PROVIDE THE SAME USE PATTERN. WHERE POSTS, RAILS, OR OTHER PEDESTRIAN CONTROLS ARE UTILIZED TO CREATE CROWD CONTROL AISLES OR LANES, A MINIMUM AISLE WIDTH NOT LESS THAN INDICATED IN FIGURE 11B-5E (A) AND (B) WITH 32 INCHES OF CLEAR OPENING. (1133B.2.3.4)

J. FLOORS AND LEVELS

LEVEL AREA IS DEFINED AS "A SPECIFIED SURFACE THAT DOES NOT HAVE A SLOPE IN ANY DIRECTION EXCEEDING 1/4 INCH IN ONE FOOT FROM THE HORIZONTAL (2.083% GRADIENT)." (1102B)

1. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS. (1120B.1)

2. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. (1120B.2 & 1124B.1)

3. CHANGES IN LEVEL UP TO ¼ INCH MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. (1124B.2, FIG 11B-5E(C))

4. CHANGES IN LEVEL BETWEEN ¼ INCH AND ½ INCH SHALL BE BEVELED WITH A SLOPE NO STEEPER THAT 1:2. (1124B.2, FIG 11B-5E(D))

5. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE ½ INCH. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 1124B.2. (1124B.3, FIG 11B-7E)

6. IF GRATINGS ARE LOCATED ON FLOORS, THEN THEY SHALL HAVE SPACES NO GREATER THAN ½ INCH WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (1124B.4, FIG 11B-7E)

K. CORRIDORS & AISLES

1. EVERY CORRIDOR AND HALLWAY SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL NOT BE LESS THAN 44 INCHES IN WIDTH. (1133B.3.1)

2. CORRIDORS AND HALLWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 10 SHALL NOT BE LESS THAN 36 INCHES IN WIDTH. (1133B.3.1)

3. CORRIDORS WHICH ARE LOCATED ON ACCESSIBLE ROUTE AND EXCEED 200 FEET IN LENGTH SHALL:(1133B.3.2, FIG 11B-34)

A) HAVE A MINIMUM CLEAR WIDTH OF 60"; OR

B) HAVE, AT REASONABLE INTERVALS, A 60 INCHES BY 60 INCHES MINIMUM WHEELCHAIR TURNING SPACE OR PASSING ALCOVE; NOT TO EXCEED 200 FEET; OR

C) HAVE, AT A CENTRAL LOCATION, AN INTERVENING CROSSING OR TEE CORRIDOR, A MINIMUM OF 44 INCHES IN WIDTH

4. CIRCULATION AISLES AND PEDESTRIAN WAYS SHALL BE SIZED ACCORDING TO FUNCTIONAL REQUIREMENTS AND IN NO CASE SHALL BE LESS THAN 36 INCHES IN CLEAR WIDTH. (1105B.3.6)

5. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEATS, TABLES, MERCHANDISE, EQUIPMENT, OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT. (1133B.6.1)

6. EVERY AISLE SHALL BE NOT LESS THAN 36 INCHES WIDE IF SERVING ONLY ONE SIDE, AND NOT LESS THAN 44 INCHES WIDE IF SERVING BOTH SIDES. (1133B.6.2)

L. HAZARDS AND PROTRUDING OBJECTS

1. ABRUPT CHANGES IN LEVEL, EXCEPT BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY, EXCEEDING 4 INCHES IN A VERTICAL DIMENSION, SUCH AS AT PLANTERS OR FOUNTAINS LOCATED IN OR ADJACENT TO WALKS, SIDEWALKS, OR OTHER PEDESTRIAN WAYS, SHALL BE IDENTIFIED BY WARNING CURBS PROJECTING AT LEAST 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE TO WARN THE BLIND OF A POTENTIAL DROP OFF. (1133B.8.1)

2. WHEN A GUARD OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED WHEN A GUIDE RAIL IS PROVIDED CENTERED 3 INCHES PLUS OR MINUS 1 INCH ABOVE THE SURFACE OF THE WALK OR SIDEWALK, THE WALK IS 5 PERCENT OR LESS GRADIENT OR NO ADJACENT HAZARD EXISTS. (1133B.8.1, FIG 11B-27(C)

3. OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27 INCHES AND 80 INCHES ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4 INCHES INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. (1133B.8.6.1, FIG 11B-7A)

4. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. (1133B.8.6.1, FIG 11B-7A)

5. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12 INCHES MAXIMUM FROM 27 INCHES TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR. (1133B.8.6.1, FIG 11B-7B)

6. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE. (1133B.8.6.1, FIG 11B-7D)

7. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES, OR OTHER CIRCULATION SPACES SHALL HAVE 80 INCHES MINIMUM CLEAR HEAD ROOM. (1133B.8.6.2, FIG 11B-7A & 7C)

8. ANY OBSTRUCTION THAT OVERHANGS A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKING SURFACE AS MEASURED FROM THE BOTTOM OF THE OBSTRUCTION. (1133B.8.2, FIG 11B-28)

9. WHERE A GUY SUPPORT IS USED PARALLEL TO A PATH OF TRAVEL, INCLUDING, BUT NOT LIMITED TO SIDEWALKS, A GUY BRACE, SIDEWALK GUY OR SIMILAR DEVICE SHALL BE USED TO PREVENT AN OVERHANGING OBSTRUCTION AS DEFINED. (1133B.8.2)

10. IF A WALK CROSSES OR ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS, OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36 INCHES WIDE, COMPLYING WITH SECTION 1121B.3.1, ITEM 8(A). (1133B.8.5)

11. TRANSIT BOARDING PLATFORMS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1121B.3.1, ITEM 8(B). ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1, ARTICLES 2, 3, AND 4. (1133B.8.4 & 1133B.8.5)

M. STAIRWAYS

1. STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE, AND EVERY STAIRWAY REQUIRED TO BE MORE THAN 88 INCHES IN WIDTH SHALL BE PROVIDED WITH NOT LESS THAN ONE INTERMEDIATE HANDRAIL FOR EACH 88 INCHES OF REQUIRED WIDTH. INTERMEDIATE HANDRAILS SHALL BE SPACED APPROXIMATELY EQUALLY ACROSS THE ENTIRE WIDTH OF THE STAIRWAY. HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES OF THE STAIRWAY. (1133B.4.1.1)

2. THE TOP OF HANDRAIL GRIPPING SURFACE SHALL BE MOUNTED 34 TO 38 INCHES ABOVE THE NOSING OF THE TREADS. (1133B.4.2.1, FIG 11B-35)

3. HANDRAILS SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE TOP NOSING AND 12 INCHES PLUS THE TREAD WIDTH BEYOND THE BOTTOM NOSING AND ENDS SHALL BE RETURNED OR TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. (1133B.4.2.2, 1133B4.2.3, FIG 11B-35, 37)

M. STAIRWAYS (CONT'D)

4. THE HANDGRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4 INCHES OR MORE THAN 1-1/2 INCHES IN CROSS-SECTIONAL NOMINAL DIMENSION OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. THE HANDGRIP PORTION OF HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. GRIPPING SURFACES (TOP OR SIDES) SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS. ANY WALL OR OTHER SURFACE ADJACENT TO THE HANDRAIL SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.(1133B.4.2.6, FIG 11B-36)

5. THE ORIENTATION OF AT LEAST ONE HANDRAIL SHALL BE IN THE DIRECTION OF THE RUN OF THE STAIR AND PERPENDICULAR TO THE DIRECTION OF THE STAIR NOSING, AND SHALL NOT REDUCE THE MINIMUM REQUIRED WIDTH OF STAIRS. (1133B.4.2.4)

6. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF 1-1/2 INCHES BETWEEN THE WALL AND THE HANDRAIL. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3 INCH DEEP AND EXTENDS AT LEAST 18 INCHES ABOVE THE TOP OF THE RAIL. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTING. (1133B.4.2.5, FIG 11B-36)

7. THE UPPER APPROACH AND THE LOWER TREAD OF EACH STAIR SHALL BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2 INCHES WIDE PLACED PARALLEL TO AND NOT MORE THAN ONE INCH FROM THE NOSE OF THE STEP OR LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIP SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. (1133B.4.4, FIG 11B-35)

8. WHERE STAIRWAYS OCCUR OUTSIDE A BUILDING, THE UPPER APPROACH AND ALL TREADS SHALL BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2 INCHES WIDE AND PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP-RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIP SHALL BE ACCEPTABLE. (1133B.4.4, FIG 11B-35)

9. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT. WEATHER EXPOSED STAIRS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES. TREADS SHALL HAVE SMOOTH, ROUNDED, OR CHAMFERED EXPOSED EDGES, AND NO ABRUPT EDGES AT THE NOSING (LOWER FRONT EDGE). (1133B.4.5.1, FIG 11B-35)

10. THE NOSING SHALL NOT PROJECT MORE THAN 1-1/2 INCHES PAST THE FACE OF THE RISER BELOW. (1133B.4.5.2, FIG 11B-35)

11. OPEN RISERS ARE NOT PERMITTED. ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHT AND UNIFORM TREAD WIDTHS CONSISTENT WITH 1133B.4. STAIR TREADS SHALL BE NO LESS THAN 11 INCHES DEEP, MEASURED FROM RISER TO RISER. RISERS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN 60 DEGREES FROM THE HORIZONTAL. (1133B.4.5.3, FIG 11B-35)

12. TACTILE FLOOR DESIGNATION SIGNS THAT COMPLY WITH SECTION 1117B.5.1 SHALL BE LOCATED AT EACH FLOOR LEVEL LANDING IN ALL ENCLOSED STAIRWAYS IN BUILDINGS TWO OR MORE STORIES IN HEIGHT TO IDENTIFY THE FLOOR LEVEL. AT EXIT DISCHARGE LEVEL, THE SIGN SHALL INCLUDE A RAISED FIVE-POINTED STAR LOCATED TO THE LEFT OF THE IDENTIFYING FLOOR LEVEL. THE OUTSIDE DIAMETER OF THE STAR SHALL BE THE SAME AS THE HEIGHT OF THE RAISED CHARACTERS. (1133B.4.3)

N. CONTROLS & OPERATING MECHANISMS

1. CONTROLS AND OPERATING MECHANISMS IN ACCESSIBLE SPACES, ALONG ACCESSIBLE ROUTES OR AS PART OF ACCESSIBLE ELEMENTS AND THOSE IN SECTION 109.1 ARE REQUIRED TO BE ACCESSIBLE. (1117B.6.1)

2. CLEAR FLOOR SPACE COMPLYING WITH SECTION 1118B.4 THAT ALLOWS A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT. (1117B.6.2)

3. THE HIGHEST AND LOWEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTIONS 1118B.5 AND 1118B.6. ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. (1117B.6.3)

4. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PUNCHING, OR TWISTING OF THE WRIST. TO FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE. (1117B.6.4)

5. FOR ACCESSIBLE LAVATORIES, FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVE FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE NO GREATER THAN 5 LBF. LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. (1115B.4.3)

O. SPACE ALLOWANCE & REACH RANGES

1. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30 INCHES BY 48 INCHES. THE MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE A PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS. (1117B.2.3, 1118B.4.1, FIG 11-B-5A)

2. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER WHEELCHAIR CLEAR FLOOR SPACE. IF A CLEAR FLOOR OR GROUND SPACE IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCES SHALL BE PROVIDED. (1117B.2.4, 1118B.4.2, FIG 11-B-5A)

3. THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180 DEGREE TURN IS A CLEAR SPACE OF 60" DIAMETER OR A T-SHAPED SPACE.(1118B.3, FIG 11B-12(A) & (B))

4. THE MINIMUM CLEAR WIDTH REQUIRED FOR A WHEELCHAIR TO TURN AROUND AN OBSTRUCTION SHALL BE 36 INCHES WHERE THE OBSTRUCTION IS 48 INCHES OR MORE IN LENGTH AND 42 INCHES AND 48 INCHES WHERE THE OBSTRUCTION IS LESS THAN 48 INCHES IN LENGTH. (FIG 11B-5E)

5. THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 32 INCHES AT A POINT AND 36 INCHES CONTINUOUSLY. (1118B.1, FIG 11B-10)

6. THE MINIMUM WIDTH FOR TWO WHEELCHAIRS TO PASS IS 60 INCHES. (1118B.2, FIG 11B-11)

7. IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48 INCHES. SEE FIGURE 11B-¬5C(A). THE MINIMUM LOW FORWARD REACH IS 15 INCHES. IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION, REACH AND CLEARANCES SHALL BE AS SHOWN IN FIGURE 11B-5C(B). (1118B.5)

8. IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH ALLOWED SHALL BE 54 INCHES AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9 INCHES ABOVE THE FLOOR AS SHOWN IN FIGURES I 1 B-5D(A) & (B). IF THE SIDE REACH IS OVER AND OBSTRUCTION, THE REACH AND CLEARANCES SHALL BE AS SHOWN IN FIGURE 11B-5D(C). (1118B.6)

P. EMPLOYEE WORK AREAS & WORK STATIONS

WORK STATION IS DEFINED AS "AN AREA DEFINED BY EQUIPMENT AND/OR WORK SURFACES INTENDED FOR USE BY EMPLOYEES ONLY, GENERALLY FOR ONE OR A SMALL NUMBER OF EMPLOYEES AT A TIME..." (1102B)

1. EMPLOYEE AREAS SHALL CONFORM TO ALL REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT - ACCESS COMPLIANCE IN THE CALIFORNIA BUILDING CODE, PLUMBING CODE, AND ELECTRICAL CODE. (1123B.1)

2. SPECIFIC WORKSTATIONS NEED ONLY COMPLY WITH AISLE WIDTH AND FLOORS AND LEVELS, AND ENTRY-WAYS SHALL BE 32 INCHES IN CLEAR WIDTH. AISLES SHALL NOT BE LESS THAN 36 INCHES IF SERVING ONLY ONE SIDE, AND NOT LESS THAN 44 INCHES WIDE IF SERVING BOTH SIDES. (1123B.2,1133B.6.2)

3. EMPLOYEE WORK AREAS SHALL BE ACCESSIBLE BY MEANS OF 36 INCH MINIMUM AISLE AND 32 INCH MINIMUM CLEAR OPENING DOOR WIDTH. (1105B.3.2.3)

Q. FIXED OR BUILT-IN SEATING, TABLES AND COUNTERS

1. WHERE FIXED OR BUILT-IN SEATING, TABLES, OR COUNTERS ARE PROVIDED FOR THE PUBLIC, AND IN GENERAL EMPLOYEE AREAS, FIVE PERCENT BUT NEVER LESS THAN ONE MUST BE ACCESSIBLE, AS REQUIRED IN SECTION 1122B. (1122B.1)

2. IF SEATING SPACES FOR PERSONS IN WHEELCHAIRS ARE PROVIDED AT FIXED TABLES OR COUNTERS, CLEAR FLOOR SPACE COMPLYING WITH SECTION 1118B.4 SHALL BE PROVIDED. SUCH CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 19 INCHES. (1122B.2, FIG 11B-13)

3. IF SEATING FOR PERSONS IN WHEELCHAIRS IS PROVIDED AT FIXED TABLES OR COUNTERS, KNEE SPACES AT LEAST 27 INCHES HIGH, 30 INCHES WIDE, AND 19 INCHES DEEP SHALL BE PROVIDED. (1122B.3, FIG 11B-13)

4. THE TOPS OF TABLES AND COUNTERS SHALL BE 28 INCHES TO 34 INCHES FROM THE FLOOR OR GROUND. (1122B.4)

5. WHERE A SINGLE COUNTER CONTAINS MORE THAN ONE TRANSACTION STATION, SUCH AS A BANK COUNTER WITH MULTIPLE TELLER WINDOWS OR A RETAIL SALES COUNTER WITH MULTIPLE CASH REGISTER STATIONS, AT LEAST 5 PERCENT, BUT NEVER LESS THAN ONE OF EACH TYPE OF STATION SHALL BE LOCATED AT A SECTION OF COUNTER THAT IS AT LEAST 36 INCHES LONG AND NO MORE THAN 28 TO 34 INCHES HIGH. (1122B.4)

R. SIGNS & IDENTIFICATION

CALIFORNIA'S STANDARDS FOR SIGNAGE ARE MORE STRINGENT AND ARE SIGNIFICANTLY LARGER AND WIDER THAN FEDERAL LAW, AMERICANS WITH DISABILITIES ACT (ADA) SECTION 4.30. (1117B.5)

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN TITLE 24 AND AS SPECIFICALLY REQUIRED IN THIS SECTION. (1117B.5.8.1, FIG 11B-6)

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B. (1117B5.8.1.1)

R. SIGNS & IDENTIFICATION (CONT'D)

2. ALL BUILDING AND FACILITY ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING CIRCULATION PATHS. (1117B.5.8.1.2. & 1127B.3)

3. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES OF A BUILDING OR SITE, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.2 THROUGH 1117B.5.7. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (1117B.5.1, 1117B.5.7)

4. WHEN SIGNS DIRECT TO OR GIVE INFORMATION ABOUT PERMANENT ROOMS AND FUNCTIONAL SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH SECTIONS 1117B.5.2, 1117B.5.3, 1117B.5.4. MEANS OF EGRESS SIGNS AND IDENTIFICATION FOR VISUAL EXIT SIGNS, GRAPHICS, ILLUMINATION, POWER SOURCE, TACTILE EXIT SIGNAGE, TACTILE STAIR LEVEL IDENTIFICATION AND SPECIAL EGRESS CONTROL DEVICES SHALL COMPLY WITH SECTIONS 1003.2.8.1, 1003.2.8.5, 1003.2.9, 1003.2.10 AND 1003.3.1.10. (1117B.5.1.2)

5. WHEN RAISED CHARACTERS OR WHEN PICTOGRAM SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING: (1117B.5.5)

A) CHARACTERS ON SIGNS SHALL BE RAISED OR RECESSED 1/32 INCH MINIMUM AND SHALL BE SANS - SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH SECTION 1117B.5.6. (1117B.5.5.1)

B) RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8 INCH HIGH AND A MAXIMUM OF 2 INCHES HIGH. (1117B.5.5.2)

C) PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT. (1117B.5.5.3)

D) CHARACTERS AND BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHOULD BE PLACED A MINIMUM OF 3/8-INCH AND A MAXIMUM OF ½-INCH DIRECTLY BELOW THE TACTILE CHARACTERS; FLUSH LEFT OR CENTERED. WHEN TACTILE SIGN IS MULTI-LINED, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT. (1117B.5.5.4)

6. CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (1117B.5.3)

7. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (1117B.5.2)

8. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE "X". LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 1133B.8.6, THE MINIMUM CHARACTER HEIGHT SHALL BE 3 INCHES. (1117B.5.4)

9. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10-INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH ABOVE THE BACKGROUND. (1117B.5.6)

10. POLE SUPPORTED PEDESTRIAN TRAFFIC CONTROL BUTTONS SHALL BE IDENTIFIED WITH COLOR CODING CONSISTING OF A TEXTURED HORIZONTAL YELLOW BAND 2 INCHES IN WIDTH ENCIRCLING THE POLE, AND A 1 INCH WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND. COLOR-CODING SHOULD BE PLACED IMMEDIATELY ABOVE THE CONTROL BUTTON. CONTROL BUTTONS SHALL BE LOCATED NO HIGHER THAN 48 INCHES ABOVE THE SURFACE ADJACENT TO THE POLE. (1117B.5.9)

S. ELECTRICAL

1. THE HIGHEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION MEETING THE CLEARANCES AND REACH RANGE REQUIREMENTS OF SECTION 1118B.5 AND 1118B.6 AND NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORMS. (1117B.6.3)

2. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL BE 48" ABOVE THE FLOOR OR WORKING PLATFORM. (1117B.6, 5.1)

3. THE CENTER OF ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS SHALL BE INSTALLED NOT MORE THAN 48 INCHES NOR LESS THAN 14 INCHES ABOVE THE FLOOR OR WORKING PLATFORM (1117B.6.5.2)

T. NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED

NOTE: IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE ALARMS AND VISUAL ALARMS COMPLYING WITH NFPA 72 AND CHAPTER 9, SECTIONS 907.9.1 AND 907.9.2. (1114B.2)

1. APPROVED NOTIFICATION APPLIANCES FOR THE HEARING AND VISUALLY IMPAIRED SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF NFPA 72 IN THE FOLLOWING AREAS:

A) RESTROOMS

B) CORRIDORS

C) MUSIC PRACTICE ROOMS

D) BAND ROOMS

T. NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED

E) GYMNASIUMS

F) MULTIPURPOSE ROOMS (APPLIES)

G) OCCUPATIONAL SHOPS

H) OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM

I) LOBBIES

J) MEETING ROOMS (APPLIES)

K) ANY OTHER AREA FOR COMMON USE (APPLIES)

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REVISIONS

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ADDENDUM 2

DATE
02/21/2012

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ADA NOTES

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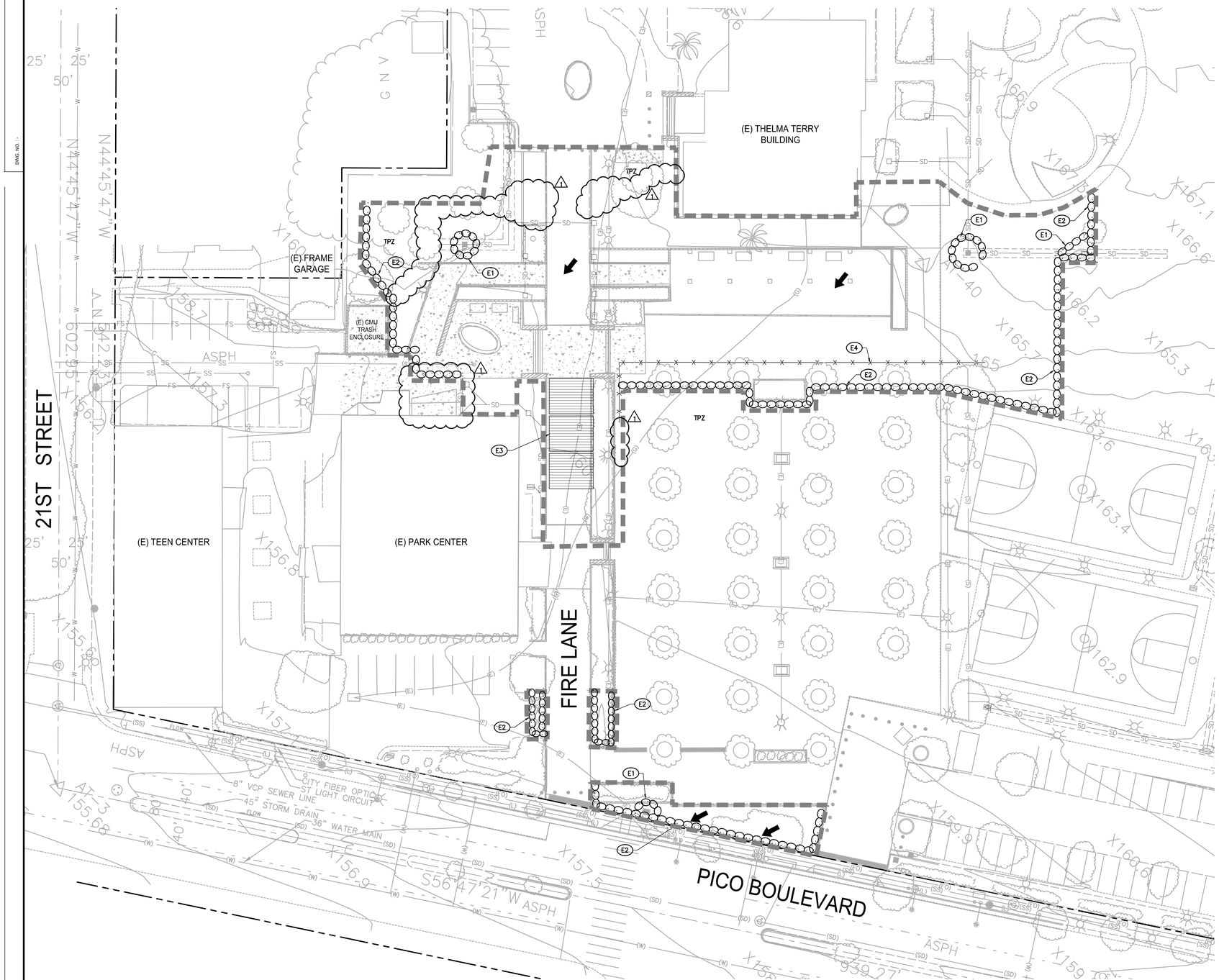

BMP NOTES:

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA, NOVEMBER 2009, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS):

EROSION CONTROL

EC1–SCHEDULING
EC2–PRESERVATION OF EXISTING VEGETATION
EC3–HYDRAULIC MULCH
EC4–HYDROSEEDING
EC5–SOIL BINDERS
EC6–STRAW MULCH
EC7–GEOTEXTILES AND MATS
EC8–WOOD MULCHING
EC9–EARTH DIKES AND DRAINAGE SWALES
EC10–VELOCITY DISSIPATION DEVICES
EC11–SLOPE DRAINS
EC12–STREAMBANK STABILIZATION
EC13–RESERVED
EC14–COMPOST BLANKET
EC15–SOIL PREPARATION/ROUGHENING
EC16–NON–VEGETATIVE STABILIZATION

TEMPORARY SEDIMENT CONTROL

SE1–SILT FENCE
SE2–SEDIMENT BASIN
SE3–SEDIMENT TRAP
SE4–CHECK DAM
SE5–FIBER ROLLS
SE6–GRAVEL BAG BERM
SE7–STREET SWEEPING AND VACUUMING
SE8–SANDBAG BARRIER
SE9–STRAW BALE BARRIER
SE10–STORM DRAIN INLET PROTECTION
SE11–ACTIVE TREATMENT SYSTEMS
SE12–TEMPORARY SILT DIKE
SE13–COMPOST SOCKS AND BERMS
SE14–BIOFILTER BAGS

EQUIPMENT TRACKING CONTROL

TC1–STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC2–STABILIZED CONSTRUCTION ROADWAY
TC3–ENTRANCE/OUTLET TIRE WASH

WIND EROSION CONTROL

WE1–WIND EROSION CONTROL

NON–STORMWATER MANAGEMENT

NS1–WATER CONSERVATION PRACTICES
NS2–DEWATERING OPERATIONS
NS3–PAVING AND GRINDING OPERATIONS
NS4–TEMPORARY STREAM CROSSING
NS5–CLEAR WATER DIVERSION
NS6–ILLICIT CONNECTION/DISCHARGE
NS7–POTABLE WATER/IRRIGATION
NS8–VEHICLE AND EQUIPMENT CLEANING
NS9–VEHICLE AND EQUIPMENT FUELING
NS10–VEHICLE AND EQUIPMENT MAINTENANCE
NS11–PILE DRIVING OPERATIONS
NS12–CONCRETE CURING
NS13–CONCRETE FINISHING
NS14–MATERIAL AND EQUIPMENT USE
NS15–DEMOLITION ADJACENT TO WATER
NS16–TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL

WM1–MATERIAL DELIVERY AND STORAGE
WM2–MATERIAL USE
WM3–STOCKPILE MANAGEMENT
WM4–SPILL PREVENTION AND CONTROL
WM5–SOLID WASTE MANAGEMENT
WM6–HAZARDOUS WASTE MANAGEMENT
WM7–CONTAMINATED SOIL MANAGEMENT
WM8–CONCRETE WASTE MANAGEMENT
WM9–SANITARY/SEPTIC WASTE MANAGEMENT
WM10–LIQUID WASTE MANAGEMENT

EROSION CONTROL NOTES:

1. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR
3. WHEN THE INSPECTOR SO DIRECTS, A 12–INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
4. STORM AND SEWER DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS.
5. EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS FORECAST, AND SHALL BE MAINTAINED DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15).
6. SANDBAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE INSPECTOR SO DIRECTS.
7. A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS:
   NAME: _____ (TO BE FILLED IN BY CONTRACTOR)
   PHONE NUMBER: _____

EROSION CONTROL NOTES:

1. DUST SHALL BE CONTROLLED BY WATERING AND/OR APPLYING A DUST PALLIATIVE. THE DUST PALLIATIVE SHALL BE APPLIED IN THE AMOUNT AT THE LOCATIONS AS DIRECTED BY THE ENGINEER.
2. WATER FOR DUST CONTROL SHALL BE APPLIED BY MEANS OF PRESSURE TYPE DISTRIBUTORS OR PIPE LINES EQUIPPED WITH A SPAY SYSTEM OR HOSES WITH NOZZLES THAT WILL INSURE A UNIFORM APPLICATION OF WATER.
3. UNLESS WATER IS APPLIED BY MEANS OF PIPE LINES, AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 100 GALLONS SHALL BE AVAILABLE FOR APPLYING WATER.
4. ALL SOIL MATERIALS OR DEBRIS TRUCKED FROM THE SITE SHALL BE COVERED AND SPRINKLED PRIOR TO ENTERING PUBLIC STREETS.
5. PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZING OF EXPOSED SOILS.
6. PROVIDE FOR RAPID CLEAN–UP OF SEDIMENTS DEPOSITED ON THE PAVED ROADS.
7. LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING & EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES.

EROSION CONTROL CONSTRUCTION NOTES:

E1 PROVIDE INLET PROTECTION PER DETAIL 1, ON SHEET C5.00.
E2 PLACE SANDBAGS TRIPLE ROW PER DETAIL 2, ON SHEET C5.00.
E3 STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 3, ON SHEET C5.00.
E4 6' CHAIN LINK FENCE AROUND PARKWAY, TREE PROTECTION ZONE, PER CITY OF SANTA MONICA STANDARDS.

LEGEND:

LIMIT LINE OF EROSION CONTROL
SANDBAGS
FLOW ARROWS
6' CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
TPZ — TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS

TREE PROTECTION ZONE (TPZ) NOTES:

1. COORDINATE ALL OFF–SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
4. FENCE THE TPZ AS SHOWN WITH A 6' CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE – KEEP OUT".

REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

PLAN
SCALE: 1" = 20'–0"
0 10' 20' 40'
GRAPHIC SCALE

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ARCHITECT'S PROJECT NO.
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SUBMITTED BY : _____ DATE : _____ 20 __

APPROVED BY : Miriam Mulder, Architecture Services Manager _____ DATE : _____ 20 __

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : _____ DATE : _____ 20 __

REVIEWED BY : _____ DATE : _____ 20 __

REVIEWED BY : _____ DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

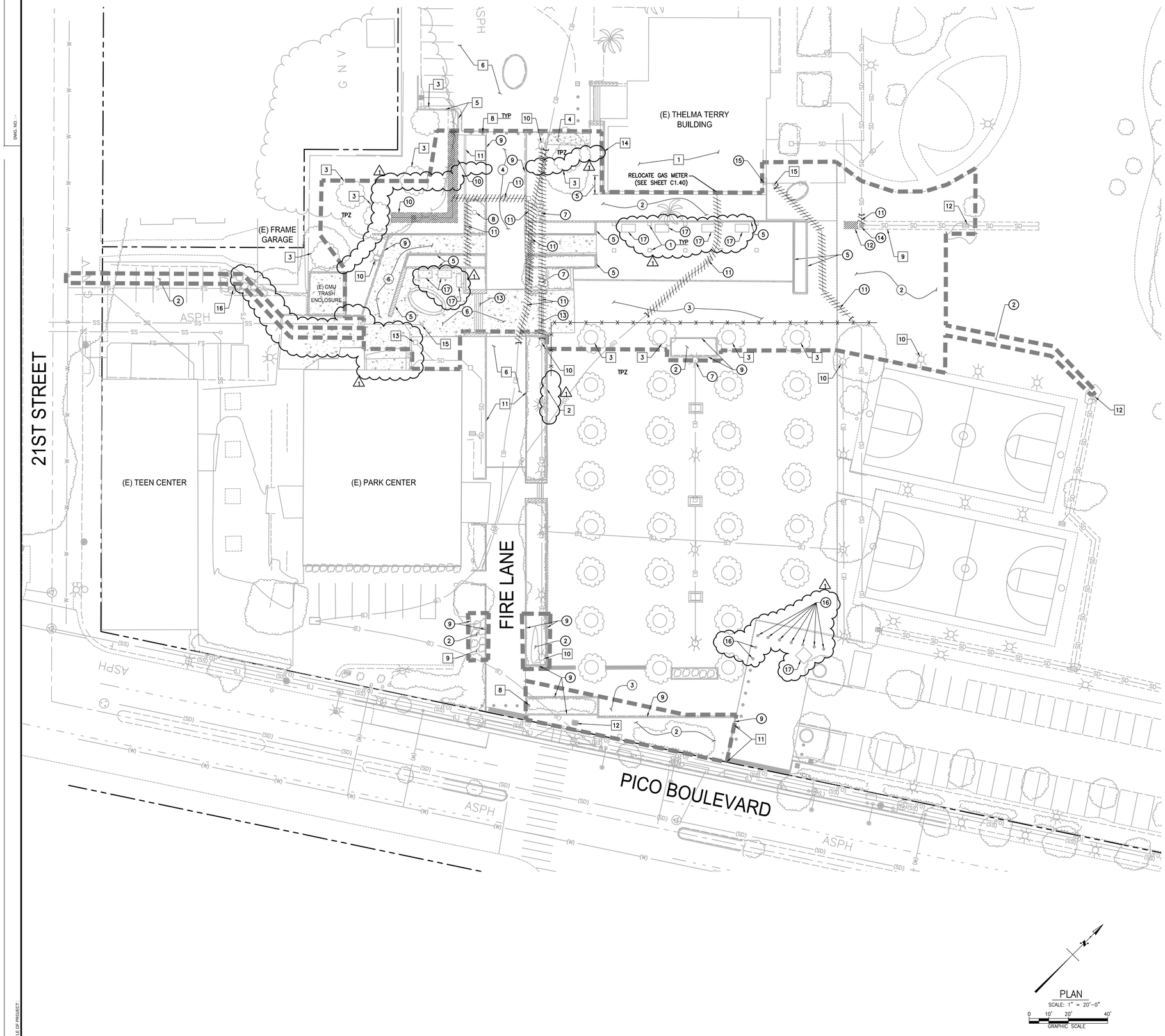
SHEET TITLE
Erosion Control Plan

SHEET NO.
C1.00

SHEET OF

DWG NO.

TITLE OF PROJECT



GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITIES, STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
11. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT, ETC. THAT IS TO BE DEMOLISHED, REMOVED AND DISPOSED OF.

DEMOLITION NOTES:

PROTECT–IN–PLACE

1. PROTECT–IN–PLACE EXISTING BUILDING. SEE ARCHITECTURAL PLANS FOR SELECTIVE DEMOLITION.
2. PROTECT–IN–PLACE EXISTING SEAT WALL.
3. PROTECT–IN–PLACE EXISTING TREE.
4. PROTECT–IN–PLACE EXISTING SIDEWALK.
5. PROTECT–IN–PLACE EXISTING CURB AND GUTTER.
6. PROTECT–IN–PLACE EXISTING ASPHALT PAVEMENT.
7. NOT USED.
8. PROTECT–IN–PLACE EXISTING BOLLARDS.
9. PROTECT–IN–PLACE PORTION OF EXISTING INFILTRATION TRENCH.
10. PROTECT–IN–PLACE EXISTING YARD LIGHT.
11. PROTECT–IN–PLACE EXISTING CURB.
12. PROTECT–IN–PLACE EXISTING CATCH BASIN.
13. PROTECT–IN–PLACE EXISTING PLANTER DRAIN.
14. PROTECT–IN–PLACE EXISTING SITE WALL.
15. PROTECT–IN–PLACE EXISTING SANITARY SEWER CLEANOUT.
16. PROTECT–IN–PLACE EXISTING BACKFLOW PREVENTION DEVICE.

REMOVE & DEMOLISH

1. DEMOLISH EXISTING TRELLIS. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DETAILS.
2. SEE GENERAL DEMOLITION NOTES HEREON.
3. DEMOLISH EXISTING RESIN PAVEMENT.
4. DEMOLISH EXISTING ASPHALT PAVEMENT.
5. DEMOLISH EXISTING SITEWALL.
6. DEMOLISH EXISTING CONCRETE PAVEMENT.
7. REMOVE AND RELOCATE EXISTING YARD LIGHT. SEE ELECTRICAL PLANS FOR NEW LOCATION.
8. REMOVE AND RELOCATE EXISTING FLAG POLE. SEE ARCHITECTURAL PLANS FOR NEW LOCATION.
9. DEMOLISH EXISTING CONCRETE CURB.
10. DEMOLISH EXISTING INFILTRATION TRENCH INCLUDING ITS LONGITUDINAL PERFORATED PIPE AND TEST STATION.
11. DEMOLISH EXISTING UTILITY. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION.
12. DEMOLISH PORTION OF EXISTING INFILTRATION TRENCH INCLUDING ITS LONGITUDINAL PERFORATED PIPE.
13. DEMOLISH EXISTING CONCRETE STAIRS.
14. REMOVE EXISTING CATCH BASIN.
15. REMOVE AND RELOCATE EXISTING WATER VALVE. 1
16. REMOVE EXISTING BOLLARDS FOR REUSE.
17. REMOVE EXISTING CONCRETE TABLE AND CHAIR WHERE OCCUR.

LEGEND:

— — — —	LIMIT LINE OF DEMOLITION
—X—X—X—	6' CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
////////////////	TO BE DEMOLISHED
TPZ	TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS
]	CAP PIPE FUTURE FOR POINT OF CONNECTION/STUB OUT

TREE PROTECTION ZONE (TPZ) NOTES:

1. COORDINATE ALL OFF–SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
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3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
4. FENCE THE TPZ AS SHOWN WITH A 6' CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE – KEEP OUT".

REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

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APPROVED BY :
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REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

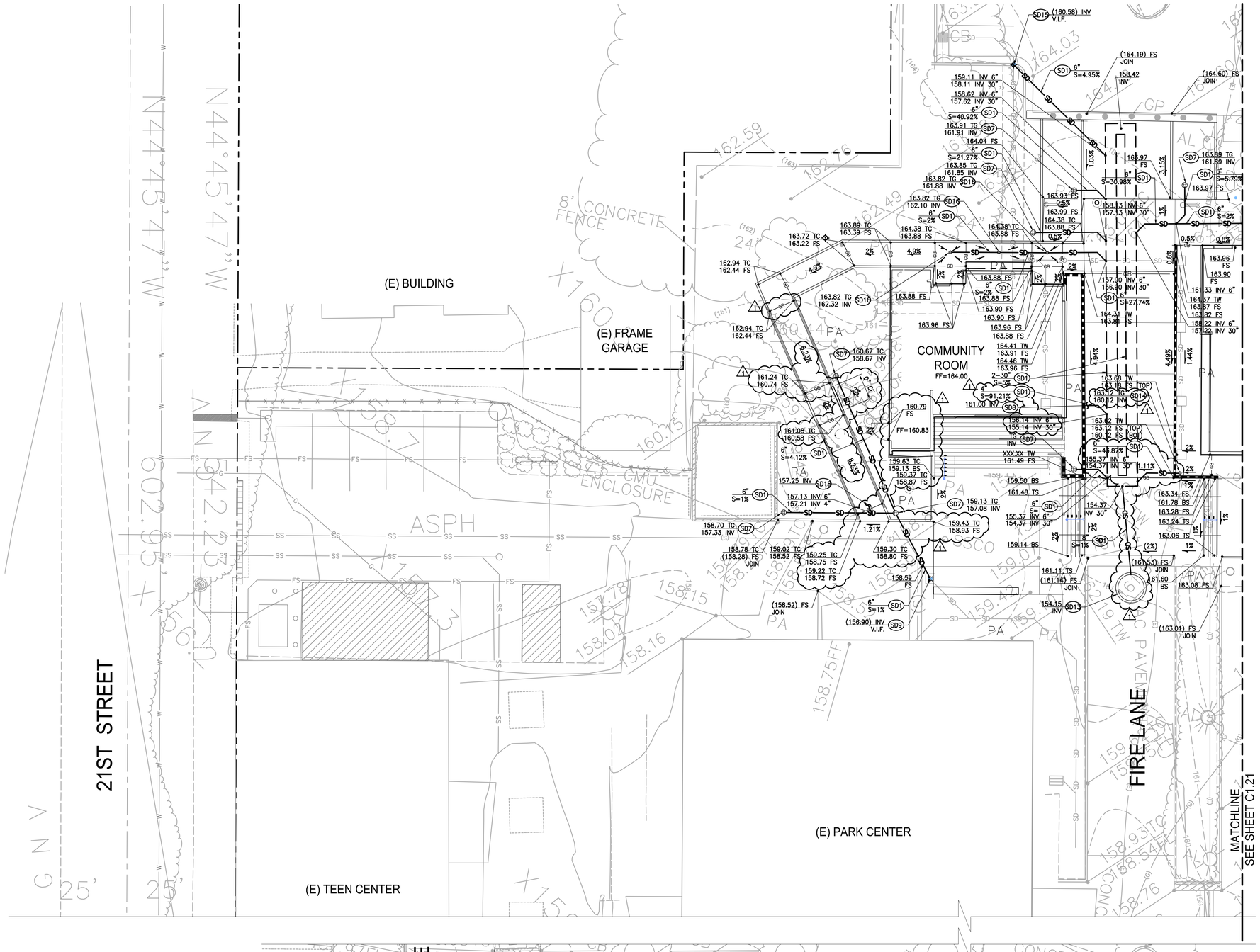
DATE
02/21/2012

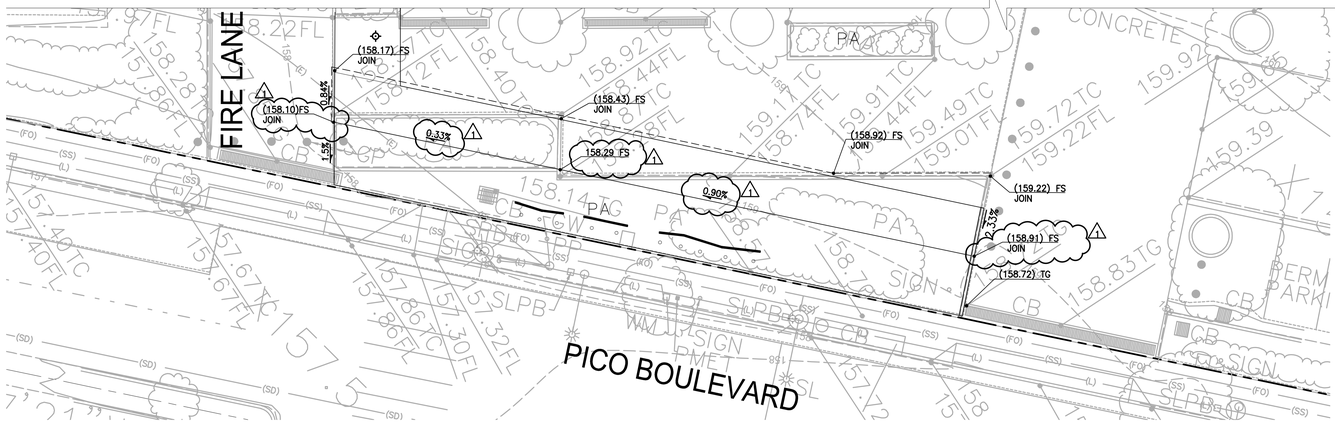
DRAWING NO. **6693**

SHEET TITLE
Demolition Plan

SHEET NO.
C1.10

SHEET OF
DWG NO. -
TITLE OF PROJECT





UTILITY CONSTRUCTION NOTES:

STORM DRAIN

SD1 PVC, SDR-35 STORM DRAIN PIPE PER DETAIL 8, ON SHEET C5.00. SIZE AND SLOPE PER PLAN.

SD2 24"X24" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 2424 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 2, ON SHEET C5.01.

SD3 CONSTRUCT TEST STATION MARKER PER DETAIL 5, ON SHEET C5.00. REFER TO INFILTRATION TRENCH DETAIL 7, ON SHEET C5.00 FOR APPLICATION.

SD4 CONSTRUCT INFILTRATION TRENCH PER DETAIL 7, ON SHEET C5.00. LONGITUDINAL PIPE IS 6" DIAMETER PERFORATED PIPE. WHILE EXCAVATING TRENCH ALL TREE ROOTS ENCOUNTERED SHALL BE HAND SAWN.

SD5 CDS STORMWATER TREATMENT UNIT.

SD6 STANDARD CLEANOUT PER DETAIL 6, ON SHEET C5.00.

SD7 PLANTER DRAIN PER DETAIL 1, ON SHEET C5.01.

SD8 POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.

SD9 CONNECTION TO EXISTING PLANTER DRAIN. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.

SD10 NOT USED.

SD11 12"X12" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 1212 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 5, ON SHEET C5.01.

SD12 SHALLOW DEPTH CLEANOUT PER DETAIL 6, ON SHEET C5.01.

SD13 MAXWELL PLUS DRYWELL SYSTEM. 6'ø X 10' DEEP.

SD14 AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE ABPB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE. 1

SD15 CONNECT TO EXISTING 6" PVC STORM DRAIN PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.

SD16 AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE ABPB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN CONNECTING TO MAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE.

SD17 NOT USED. 1

SD18 POINT OF CONNECTION. SEE LANDSCAPE DRAWINGS FOR CONTINUATION.

SD19 BREAK INTO EXISTING CATCH BASIN AND CONNECT NEW OVERFLOW PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.

TREE PROTECTION ZONE (TPZ) NOTES:

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REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION PLAN. 1

PLAN
SCALE: 1" = 10'-0"
0 5' 10' 20'
GRAPHIC SCALE

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1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

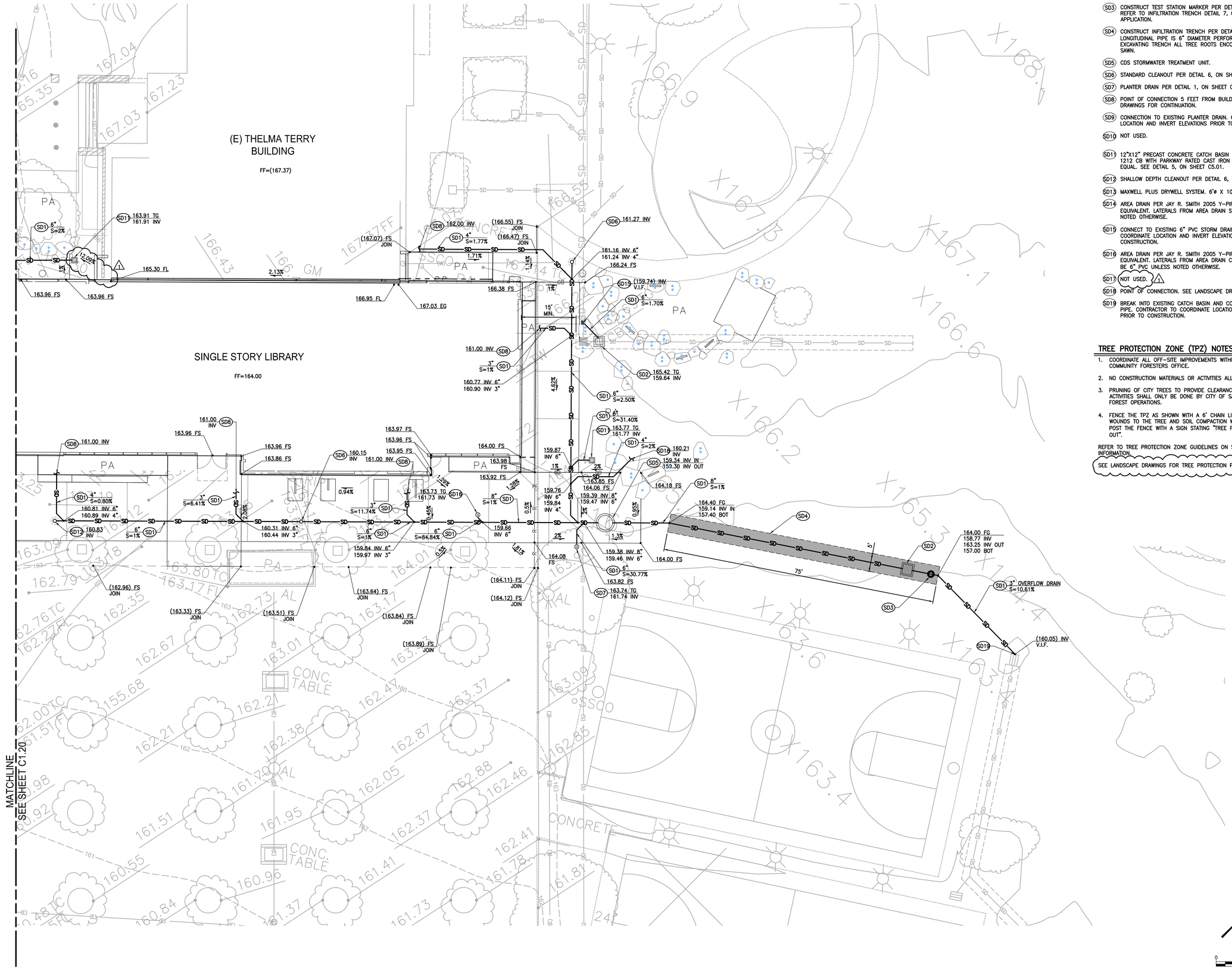
SHEET TITLE
Grading and Drainage Plan

SHEET NO.
C1.20

SHEET OF

DWG NO. -

TITLE OF PROJECT



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SD5 CDS STORMWATER TREATMENT UNIT.

SD6 STANDARD CLEANOUT PER DETAIL 6, ON SHEET C5.00.

SD7 PLANTER DRAIN PER DETAIL 1, ON SHEET C5.01.

SD8 POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.

SD9 CONNECTION TO EXISTING PLANTER DRAIN. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.

SD10 NOT USED.

SD11 12"X12" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 1212 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 5, ON SHEET C5.01.

SD12 SHALLOW DEPTH CLEANOUT PER DETAIL 6, ON SHEET C5.01.

SD13 MAXWELL PLUS DRYWELL SYSTEM. 6'ø X 10' DEEP.

SD14 AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE A8PB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE. 1

SD15 CONNECT TO EXISTING 6" PVC STORM DRAIN PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.

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SD17 NOT USED. 1

SD18 POINT OF CONNECTION. SEE LANDSCAPE DRAWINGS FOR CONTINUATION.

SD19 BREAK INTO EXISTING CATCH BASIN AND CONNECT NEW OVERFLOW PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.

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REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION PLAN. 1

PLAN
SCALE: 1" = 10'-0"
0 5' 10' 20'
GRAPHIC SCALE

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Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
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REVIEWED BY : DATE : 20

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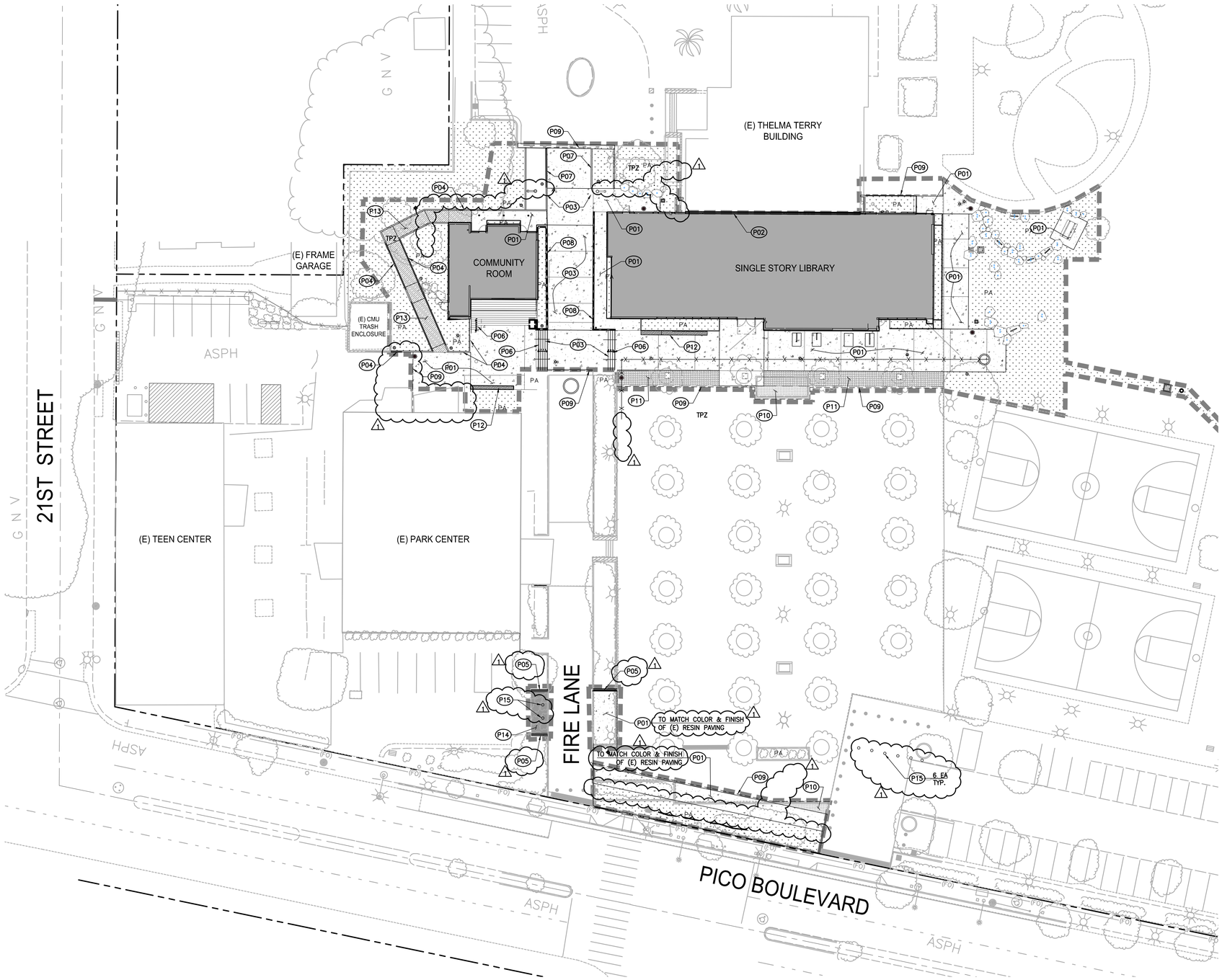
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
Grading and Drainage Plan

SHEET NO.
C1.21



PAVING CONSTRUCTION NOTES:

- P01 CONCRETE WALK PER DETAIL 4 ON SHEET C5.01.
- P02 CONCRETE VALLEY GUTTER PER DETAIL 2 ON SHEET C5.01.
- P03 CONCRETE PAVEMENT PER DETAIL 10 ON SHEET C5.00.
- P04 RAISED CURB. REFER TO LANDSCAPE PLANS FOR DETAILS. 1
- P05 RAISED CURB. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P06 C.I.P. CONCRETE STEPS WITH HANDRAILS. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- P07 MOW CURB. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P08 C.I.P. CONCRETE RETAINING WALL. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P09 SAWCUT AND JOIN EXISTING ASPHALT CONCRETE PAVEMENT/CONCRETE WALK/CONCRETE PAVEMENT AND/OR RESIN PAVING. 1
- P10 RESIN PAVEMENT. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P11 PERMEABLE PAVING. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P12 C.I.P. CONCRETE SEAT WALL. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P13 POROUS PAVING. REFER TO LANDSCAPE PLANS FOR DETAILS.
- P14 ASPHALT CONCRETE PAVEMENT PER DETAIL 9 ON SHEET C5.00.
- P15 RELOCATED BALLARDS. 1

LEGEND:

- PROPOSED BUILDING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- CONCRETE (REFER TO SHEET C5.00 AND C5.01 FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPE PLANS FOR DETAILS)
- PERMEABLE PAVING (REFER TO LANDSCAPE PLANS FOR DETAILS)
- RESIN PAVEMENT (REFER TO LANDSCAPE PLANS FOR DETAILS)
- CONCRETE SEAT WALL (REFER TO LANDSCAPE PLANS FOR DETAILS)
- POROUS PAVING (REFER TO LANDSCAPE PLANS FOR DETAILS)
- ASPHALT PAVING (REFER TO SHEET C5.00 FOR DETAILS)
- CIVIL LIMIT OF WORK
- 6' CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
- TPZ — TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS
- SAWCUT AND JOIN

TREE PROTECTION ZONE (TPZ) NOTES:

1. COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
4. FENCE THE TPZ AS SHOWN WITH A 6' CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE – KEEP OUT".

REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

PLAN
SCALE: 1" = 20'-0"
0 10' 20' 40'
GRAPHIC SCALE

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ARCHITECT'S PROJECT NO.
1001

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APPROVED BY: Miriam Mulder, Architecture Services Manager DATE: _____ 20__

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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REVIEWED BY: _____ DATE: _____ 20__

REVIEWED BY: _____ DATE: _____ 20__

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

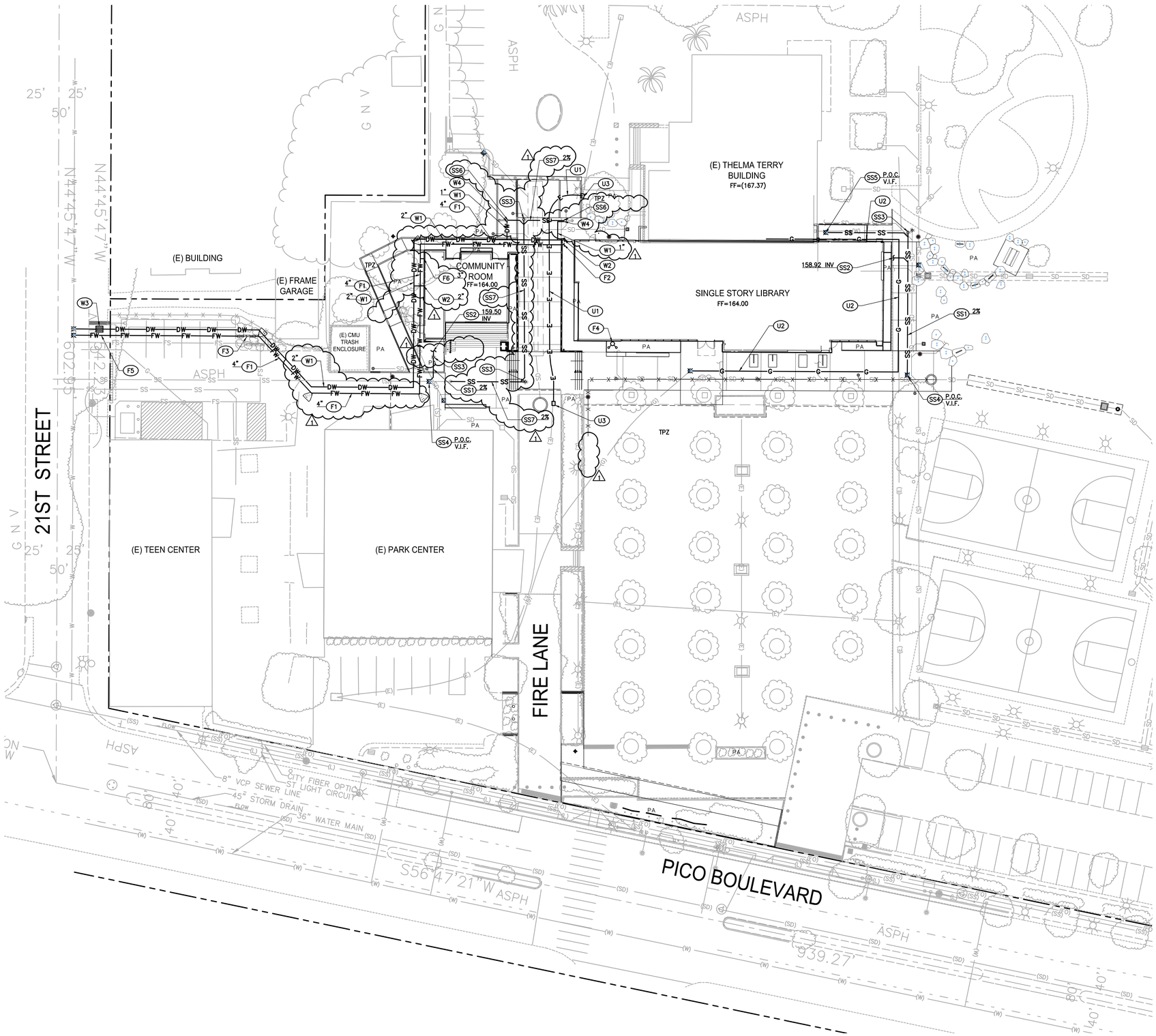
DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
Paving and Horizontal Control Plan

SHEET NO.
C1.30

SHEET OF
DWG. NO. -
TITLE OF PROJECT



UTILITY CONSTRUCTION NOTES:

SANITARY SEWER

- SS1 4" PVC, SDR-35 SANITARY SEWER PIPE PER DETAIL 8, ON SHEET C5.00. SLOPE PER PLAN.
- SS2 POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- SS3 CLEANOUT. PER DETAIL 6, ON SHEET C5.00.
- SS4 CONNECTION TO EXISTING SANITARY SEWER PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
- SS5 CONNECTION TO EXISTING SANITARY SEWER CLEANOUT. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS.
- SS6 CONNECT TO PROPOSED DRINKING FOUNTAIN. SEE ARCHITECTURAL PLANS FOR DETAILS. 1
- SS7 2" PVC, SDR-35 SANITARY SEWER PIPE PER DETAIL 8, ON SHEET C5.00. SLOPE PER PLAN.

DOMESTIC WATER

- W1 PVC SCH-40 DOMESTIC WATER PIPE. SIZE PER PLAN.
- W2 POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- W3 WATER METER VAULT. INSTALLATION BY CITY OF SANTA MONICA WATER DEPARTMENT. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
- W4 CONNECT TO PROPOSED DRINKING FOUNTAIN. SEE ARCHITECTURAL PLANS FOR DETAILS.

FIRE WATER

- F1 PVC SCH-80 FIRE WATER PIPE. SIZE PER PLAN.
- F2 POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- F3 BACKFLOW PREVENTION DEVICE PER DETAIL 4, ON SHEET C5.00.
- F4 FIRE DEPARTMENT CONNECTION. SEE PLUMBING DRAWINGS FOR DETAILS.
- F5 FIRE SERVICE CONNECTION. INSTALLATION BY CITY OF SANTA MONICA WATER DEPARTMENT. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
- F6 POINT OF CONNECTION. SEE PLUMBING DRAWINGS FOR CONTINUATION.

OTHER UTILITIES

- U1 ELECTRICAL CONDUIT. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- U2 GAS LINE. SEE GAS COMPANY DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- U3 ELECTRICAL PULL BOX. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.

LEGEND:

—X—X—X—	6' CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
TPZ	TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS

TREE PROTECTION ZONE (TPZ) NOTES:

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DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
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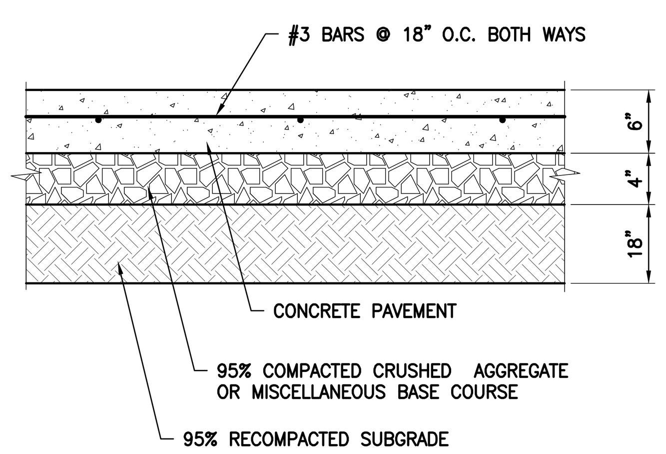
DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
Utility Plan

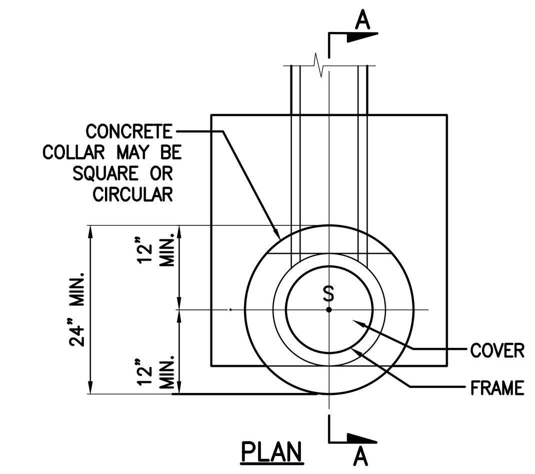
SHEET NO.
C1.40

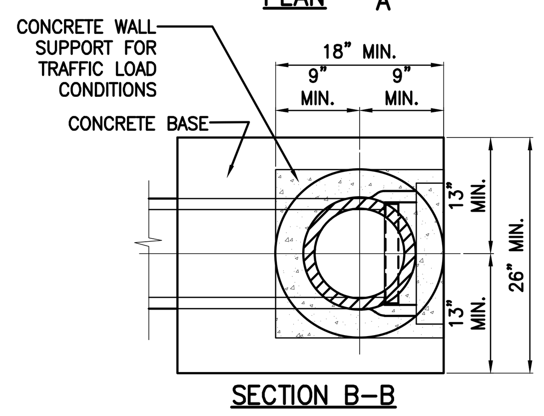


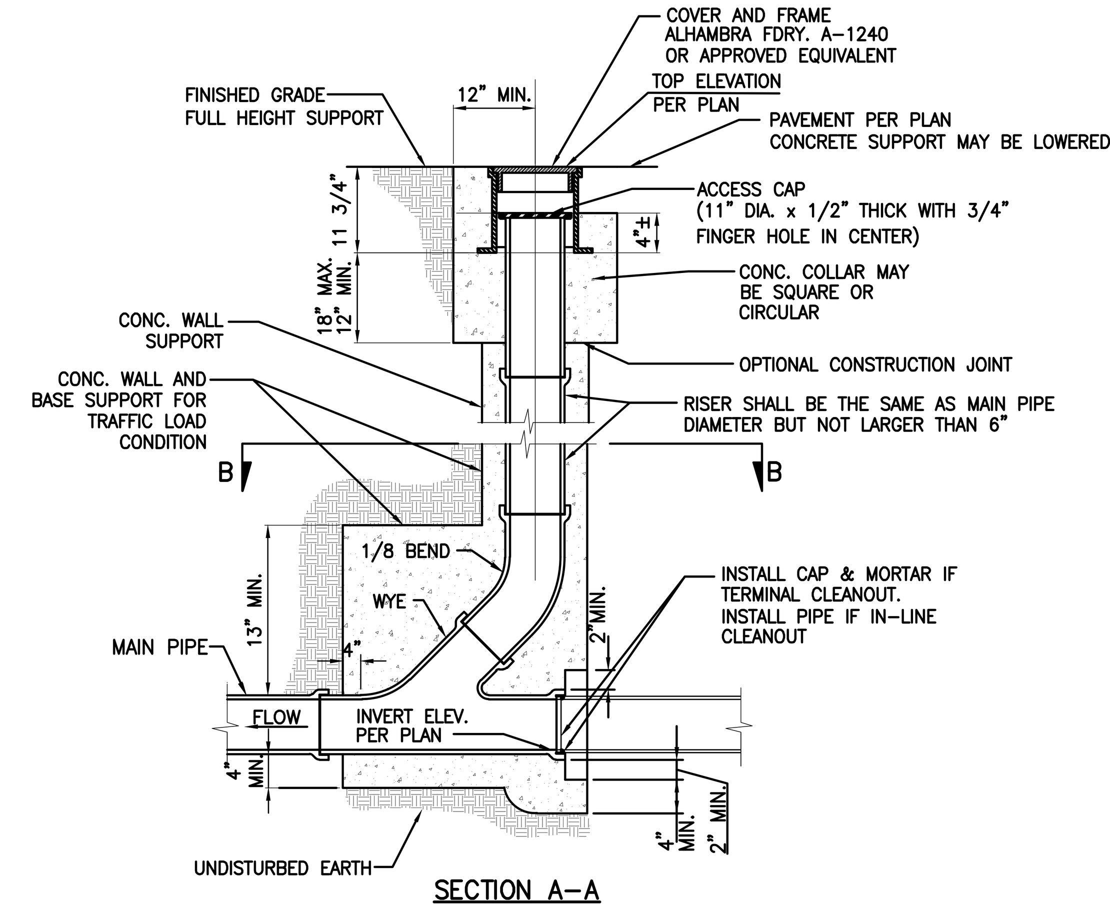
NOTES:

1. PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM THE PROJECT GEOTECHNICAL REPORT.
2. REFER TO LANDSCAPE PLANS FOR CONCRETE COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

10 REINFORCED CONCRETE PAVEMENT
N.T.S.



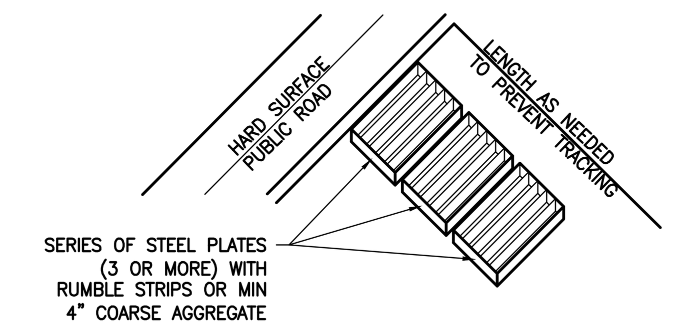




NOTES

1. SEE PROJECT PLANS FOR INVERT ELEVATION.
2. PIPE AND FITTINGS, EXCEPT AS OTHERWISE SHOWN ON HEREON, SHALL BE OF THE SAME MATERIAL AS THE SEWER, UNLESS APPROVED ADAPTERS ARE UTILIZED AND MAY BE ANY OF THE FOLLOWING:
   A. VC PIPE
   B. PE PIPE
   C. ABS SOLID PIPE
   D. ABS COMPOSITE PIPE
   E. PVC PLASTIC PIPE
3. PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASEMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT.
4. THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OUT OR MAY BE BLOCKED OUT PRIOR TO CASTING; THEY SHALL NOT BE PUNCHED OUT.
5. THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.

6 STANDARD CLEANOUT
N.T.S.



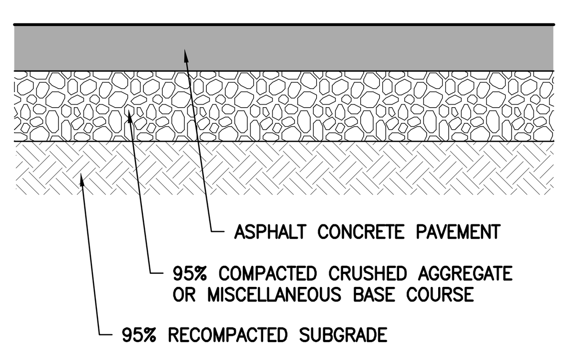
NOTES:

1. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
   A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
   B. SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH AND THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACE.
3. ADD A WASH RACK WITH SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

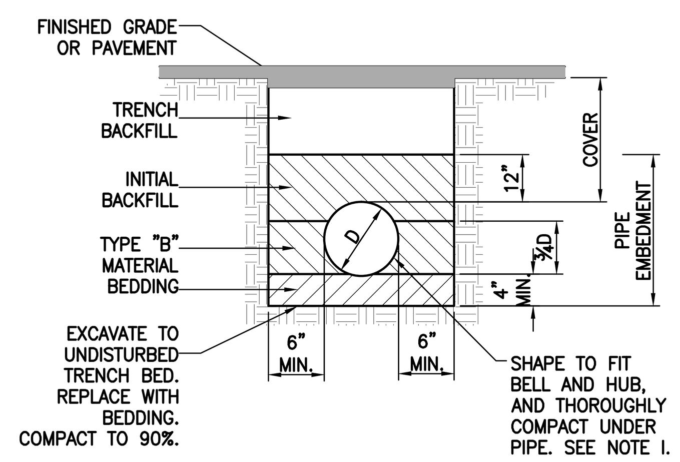
3 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



A.C. PAVEMENT TYPE	ASPHALT CONCRETE (INCHES)	BASE COURSE (INCHES)	RECOMPACTED SUBGRADE (INCHES)
VEHICULAR PARKING	3"	4"	18"
HEAVY TRUCK TRAFFIC	4"	4"	18"

NOTE:
1. PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM THE PROJECT GEOTECHNICAL REPORT.

9 ASPHALT PAVEMENT SECTION
N.T.S.

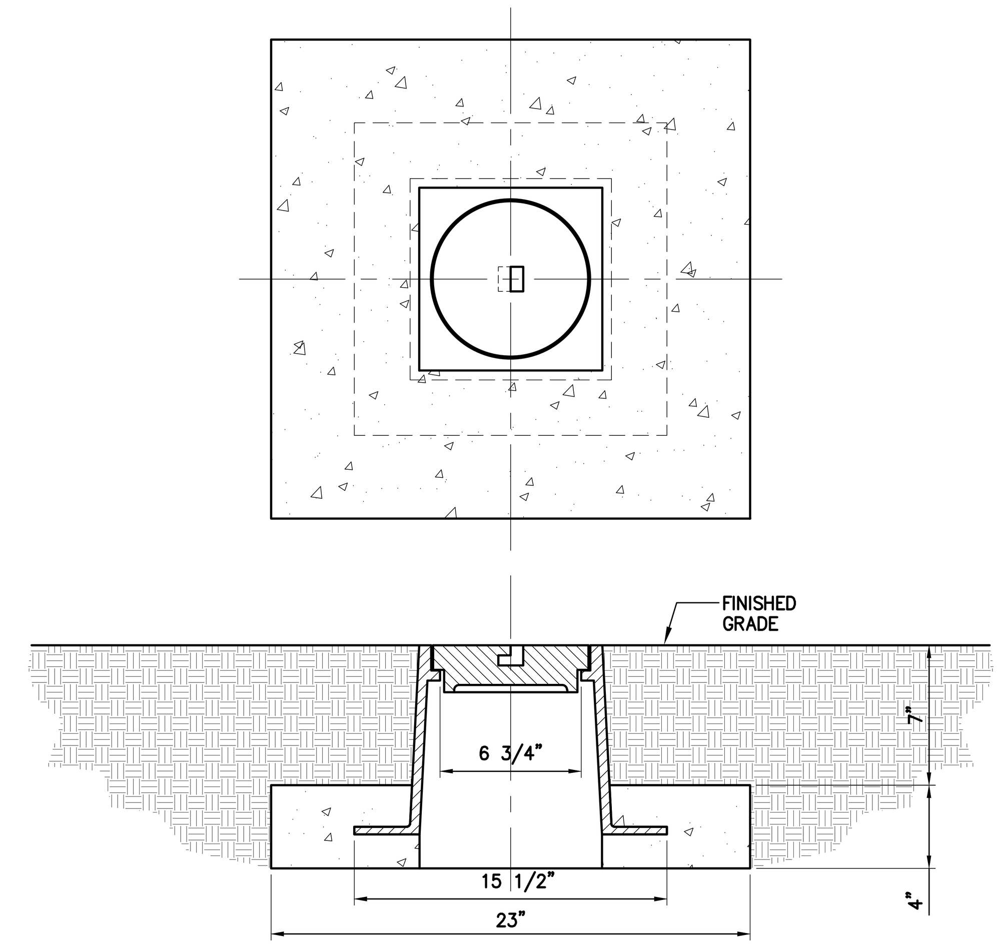


PIPE	FOR GRAVITY FLOW SAN. SEWERS AND DRAINAGE P.V.C. CONFORMING TO A.S.T.M. D-3034 MAXIMUM SDR 35, GASKETED JOINTS FOR 4" TO 15" DIA PIPE AND ASTM F-679 FOR 18" DIA AND LARGER.
BEDDING	CLEAN COARSE SAND.
INITIAL BACKFILL	NATIVE MATERIAL - MAXIMUM SIZE NOT TO EXCEED 1 1/2".
TRENCH BACKFILL:	NATIVE MATERIAL - 90% COMPACTION MIN. (95% COMPACTION IN UPPER 3.0' OF PAVED AREAS). UP TO CLASS IV SOILS, TYPE ML,CL. FINE GRAINED, LL<50, MEDIUM TO NO PLASTICITY. NOTE, IF CLASS IV SOIL, TYPE MH OR ALL CLASS V SOILS THEN USE CLEAN COURSE SAND.
CLEAN COURSE SAND	SHALL CONFORM TO THE REQUIREMENTS OF SAND FOR PORTLAND CEMENT CONCRETE AS SPECIFIED IN SECTION 200-1.5.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
TYPE "B" MATERIAL	SHALL BE ONE OF THE FOLLOWING: 1. NATIVE FREE DRAINING MATERIAL OR CRUSHED ROCK CONFORMING TO SUBSECTION 200-1.2 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" WITH 1/2" MAXIMUM ROCK GRADATION. 2. CLEAN COARSE SAND.

NOTES:

1. EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
2. TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING SHOVEL-SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. (JETTING OF TYPE "B" MATERIAL IS NOT AUTHORIZED UNLESS PREVIOUSLY APPROVED).
3. TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 306-1.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

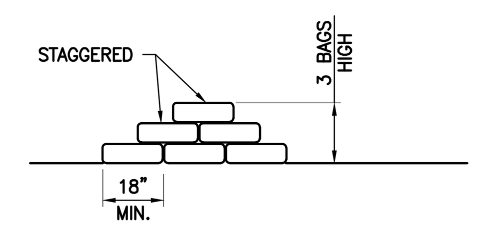
8 FLEXIBLE PIPE BEDDING DETAIL (FOR SDR-35 PIPE ONLY)
N.T.S.



CLEAR OPENING 6 3/4", OVERALL FRAME BASE 15 1/2" X 15 1/2"
FRAME HEIGHT 9"
BITUMINOUS PAINT

ALHAMBRA FOUNDRY PRODUCT A-2922

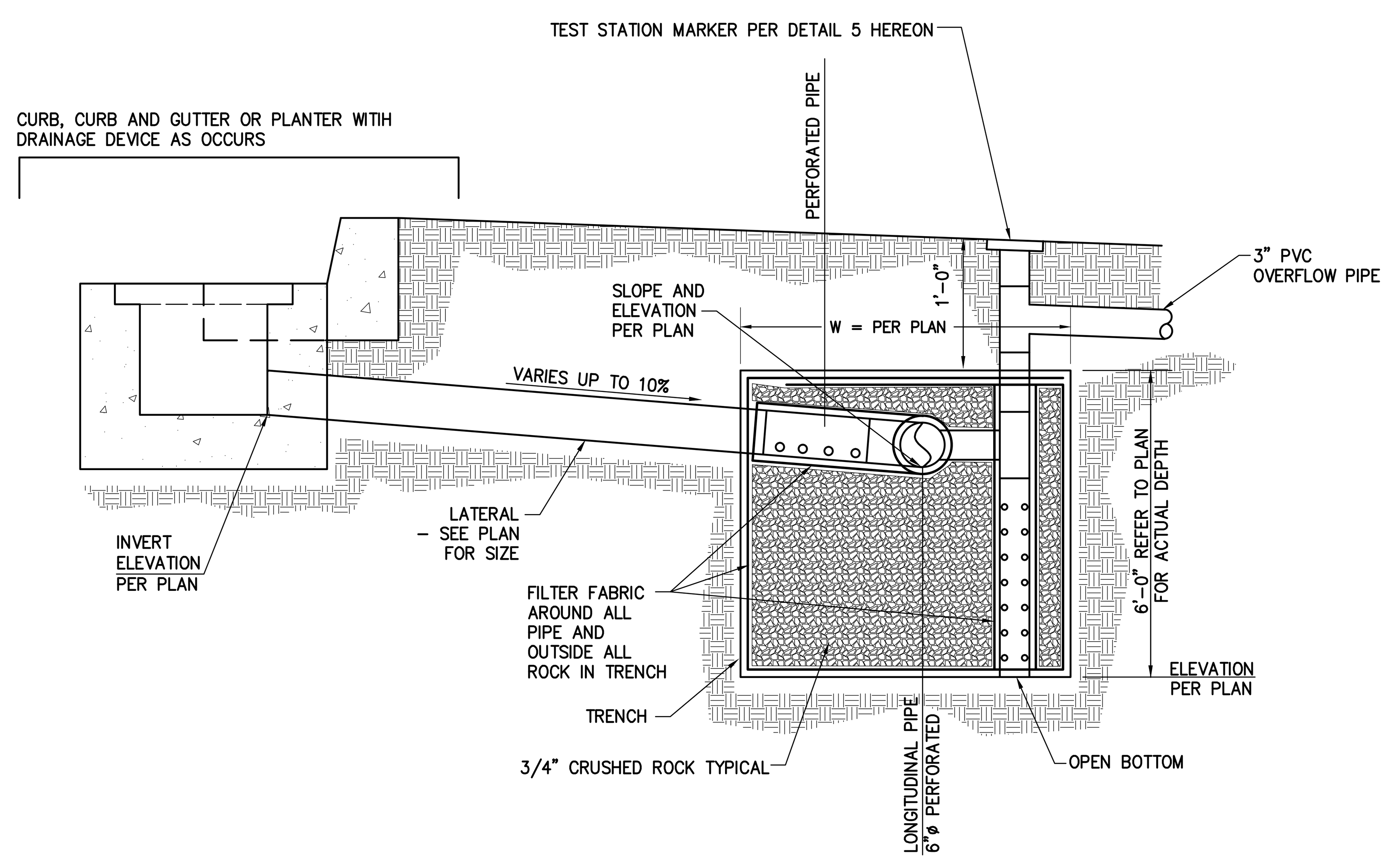
5 TEST STATION MARKER AT INFILTRATION TRENCH
N.T.S.



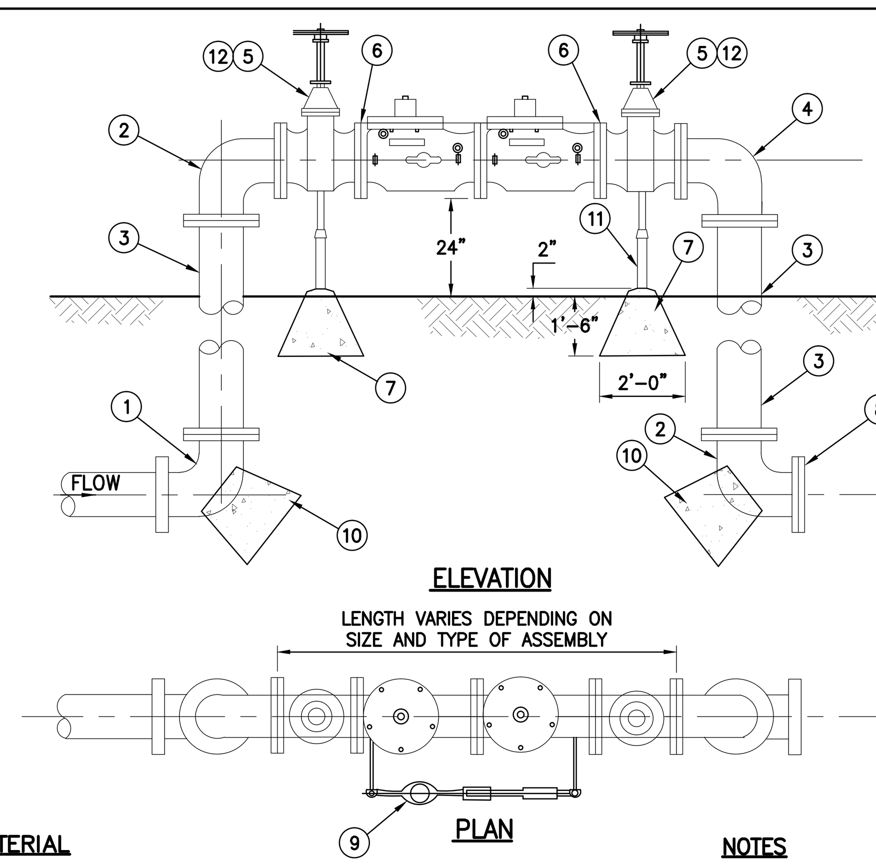
NOTES:

1. SANDBAG SHALL BE FILLED WITH NON-COHESIVE, CLASS 1 OR CLASS 2, PERMEABLE MATERIAL FREE FROM CLAY AND DELETERIOUS MATERIAL.

2 SANDBAG BARRIER
N.T.S.



7 INFILTRATION TRENCH CROSS SECTION
N.T.S.



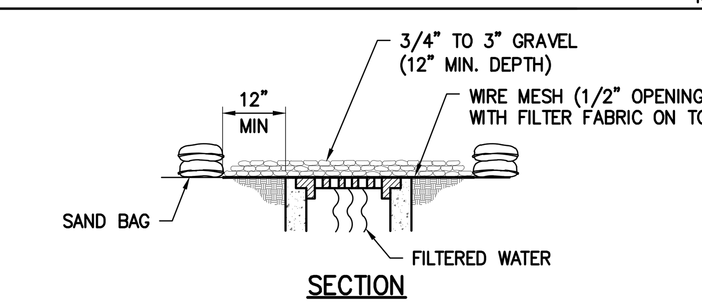
MATERIAL

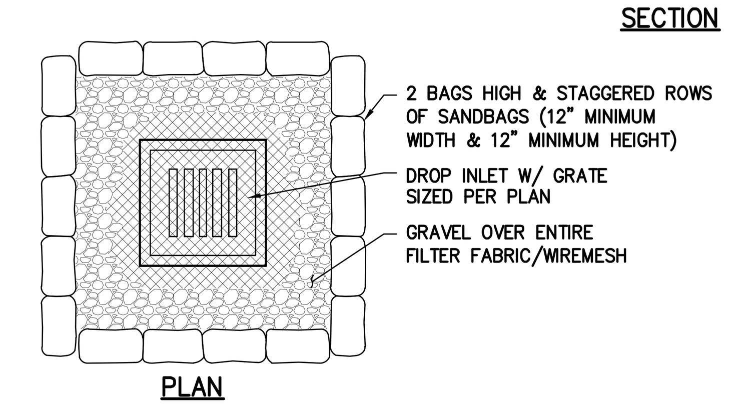
1. 90° D.I. ELL x PUSH-ON
2. 90° D.I. ELL FLG x FLG
3. D.I. (CL) SPOOL FLG x FLG
4. 90° D.I. (CL) ELL FLG x FLG
5. U.S.C.-APPROVED SHUT-OFF VALVES. SEE SPECIFICATIONS
6. APPROVED DOUBLE CHECK VALVES (SIZE PER PLAN)
7. CONCRETE FOOTING
8. TEMPORARY D.I. BLIND FLANGE, AS REQUIRED
9. BY-PASS METER ASSEMBLY
10. THRUST BLOCK
11. GALVANIZED ADJUSTABLE PIPE SUPPORT, PER MANUFACTURER'S RECOMMENDATION
12. TAMPER SWITCH WIRED TO FIRE ALARM CONTROL PANEL, WHEN APPLICABLE

NOTES

1. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS.
2. THRUST BLOCKS SHALL BE SIZED PER DETAIL 7 ON C5.01.
3. USE COMPACT TYPE IF REQUIRED. (1)

4 TYPICAL DOUBLE DETECTOR CHECK VALVE ASSEMBLY
N.T.S.





NOTES:

1. PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE. (MESH OPENINGS NOT TO EXCEED 1/2" x 1/2" WIRE)
2. PLACE FILTER FABRIC OVER WIRE MESH.
3. PLACE 3/4" TO 3" GRAVEL OVER THE FILTER FABRIC/WIRE MESH (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).
4. SAND BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
5. SAND BAG SHALL BE FILLED WITH NON-COHESIVE, CLASS 1 OR CLASS 2 PERMEABLE MATERIAL FREE FROM CLAY AND DELETERIOUS MATERIAL.
6. PLACE SEVERAL LAYERS OF SAND BAGS (12" MINIMUM HIGH) OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
7. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.

1 STORM DRAIN INLET PROTECTION
N.T.S.

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Miriam Mulder,
Architecture Services Manager

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Details
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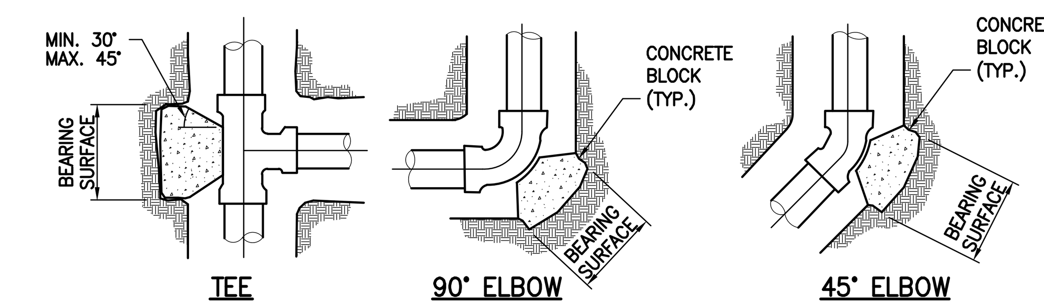
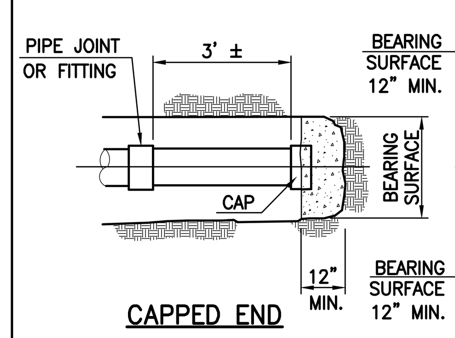
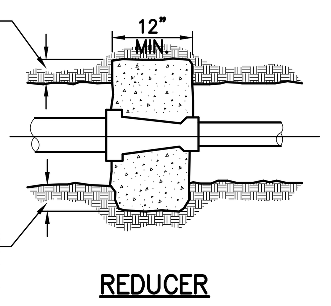
C5.00

SHEET OF
DWG. NO. : -
TITLE OF PROJECT :

7 THRUST AND ANCHOR BLOCK DETAILS (N.T.S.)



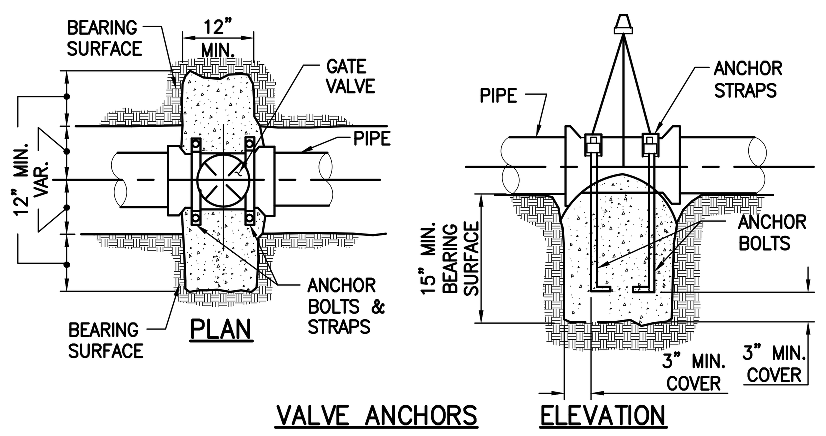


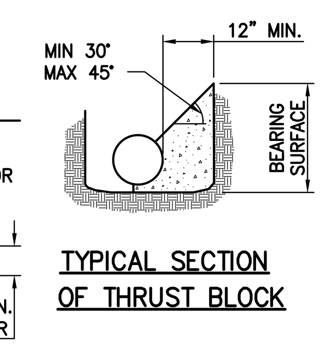


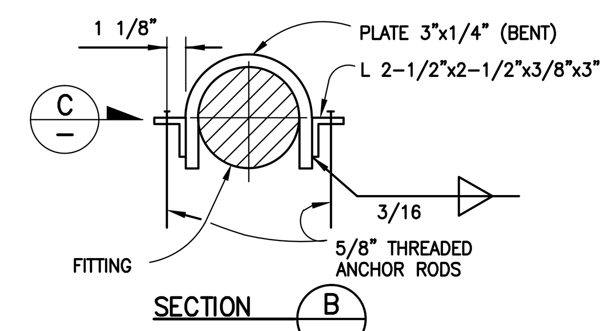
THRUST BLOCK BEARING AREAS – S.F.

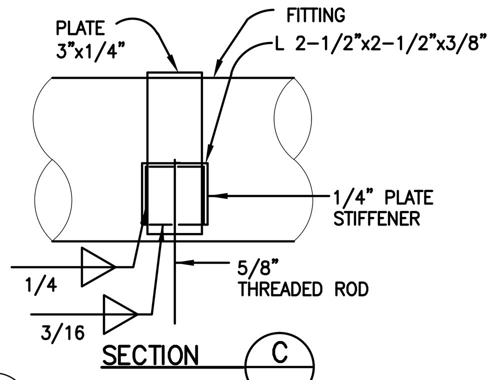
MAIN SIZE	TEE *	BEND 90°	BEND 45°	BEND 22.5°	BEND 11.25°
4"	4	4	4	3	2
6"	4	4	4	3	2
8"	5	7	4	3	2
10"	9	12	6	4	3
12"	12	16	9	6	3

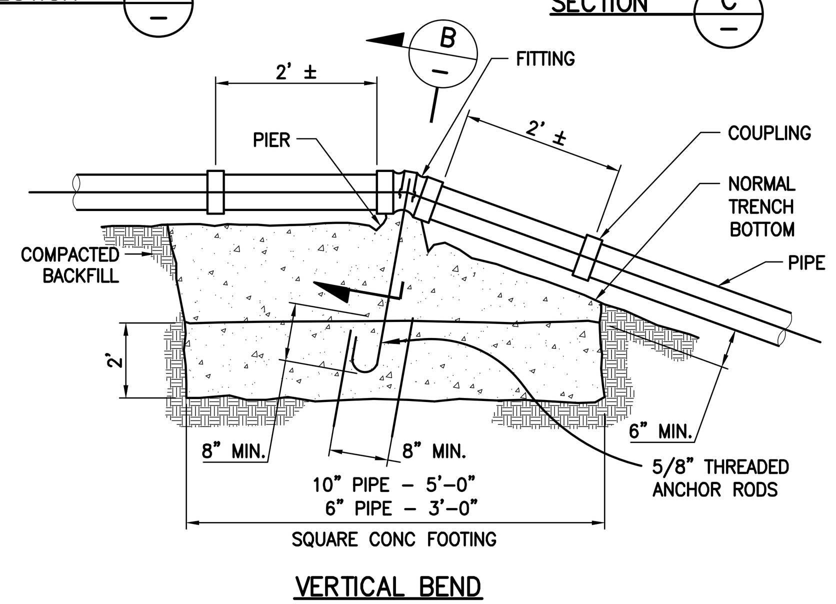
*INCLUDES TEES, PLUGS, CAPS, HYDRANTS & VALVES.







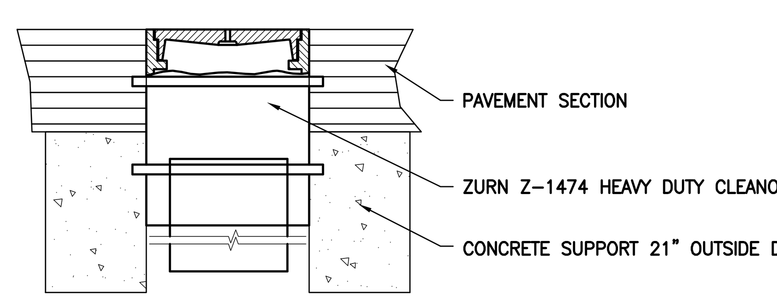




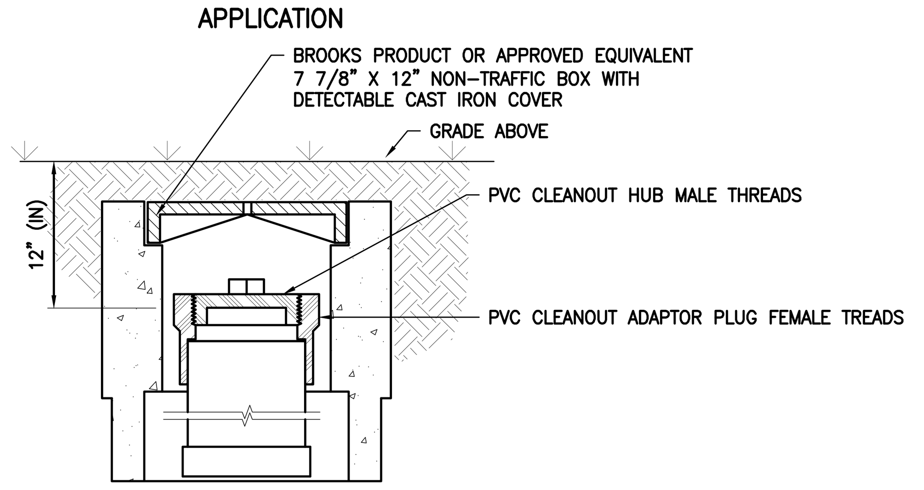
GENERAL NOTES:

1. ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 5/8" DIA. & ANCHOR STRAPS SHALL BE 3"X1/4".
4. THRUST BLOCK DESIGN IS BASED ON A WATER PRESSURE OF 150 P.S.I., AND A MINIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 P.S.F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS, BASED UPON N.F.P.A. 24.
5. THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCKS SHALL NOT EXCEED 1.5 TO 1.

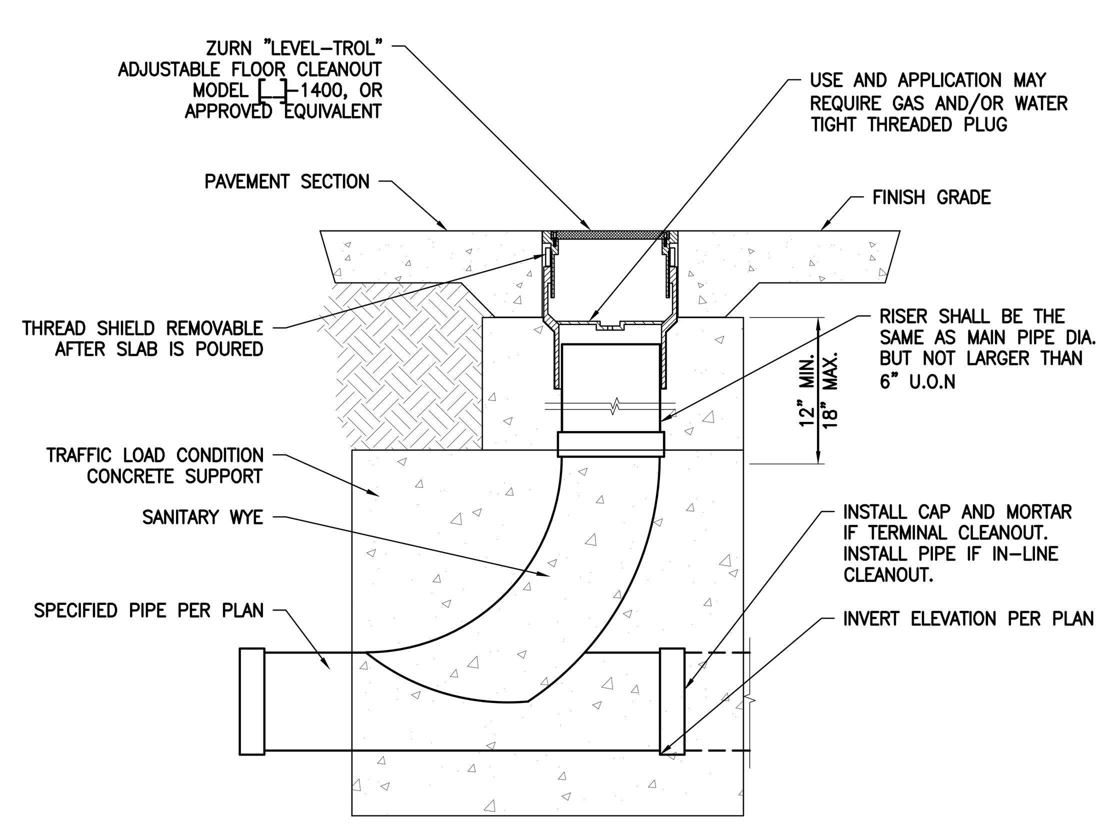
6 CLEANOUT SHALLOW DEPTH–38" OR LESS (N.T.S.)



HEAVY DUTY – TRAFFIC APPLICATION



BURIED IN GROUND APPLICATION



PEDESTRIAN AREA APPLICATION

REFER TO APWA STD. PLAN NO. 204-0 WHEN INVERT DEPTH IS GREATER THAN 38"(IN.) BELOW THE SURFACE

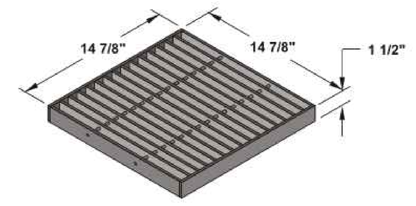
5 12" X 12" CATCH BASIN (N.T.S.)

1212 CAST IRON GRATE

PARKWAY ONLY 28 lbs.

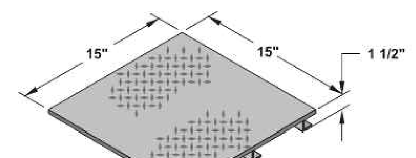
1212 STEEL GRATES

PARKWAY 16 lbs.
TRAFFIC 18 lbs.



1212 STEEL COVER

PARKWAY 22 lbs.
TRAFFIC 25 lbs.



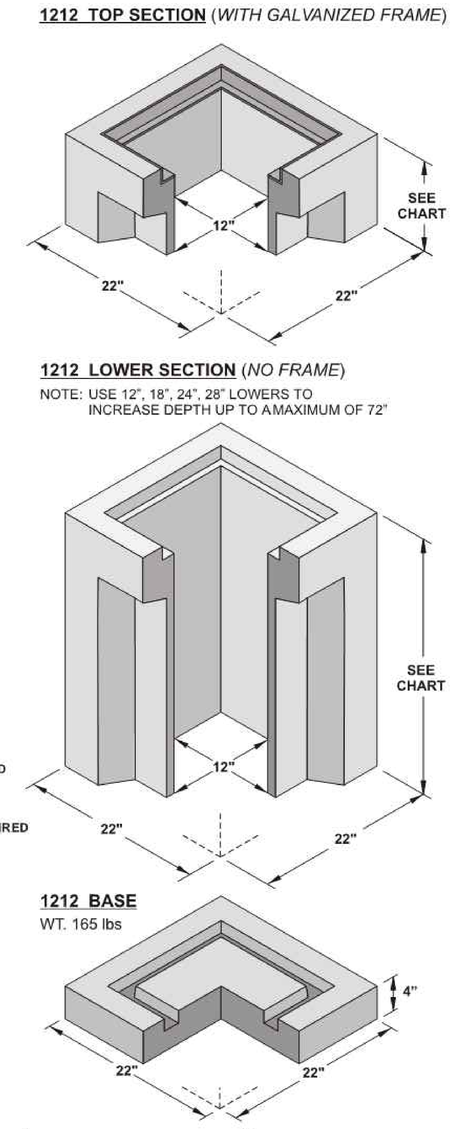
1212 TOP SECTION (*WITH GALVANIZED FRAME*)

1212 LOWER SECTION (*NO FRAME*)

NOTE: USE 12", 18", 24", 28" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

1212 BASE

WT. 165 lbs



7-01

NOTES:
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC
3. "HEEL PROOF" GRATES AVAILABLE IN PARKWAY & TRAFFIC
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED

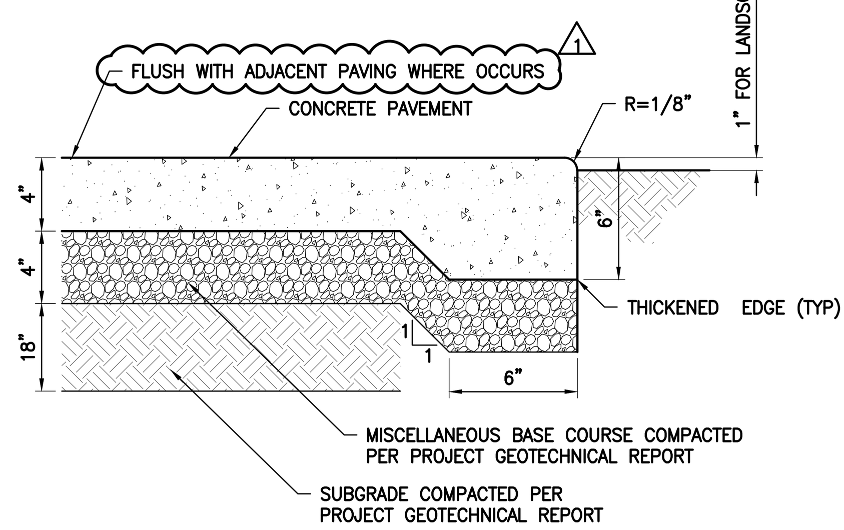
TOP SECTION	HT.	LBS	KNOCK-OUT
1212 T6	6"	170	NONE
1212 T12	12"	275	(4) 5" x 10"
1212 T18	18"	270	(4) 8" x 12"
1212 T24	24"	430	(4) 8" x 15"
1212 T28	28"	380	(4) 8" x 22"

EXTENSION SECTION	HT.	LBS	KNOCK-OUT
1212 E6	6"	170	NONE

LOWER SECTION	HT.	LBS	KNOCK-OUT
1212 L12	12"	275	(4) 5" x 10"
1212 L18	18"	270	(4) 8" x 12"
1212 L24	24"	430	(4) 8" x 15"
1212 L28	28"	380	(4) 8" x 22"

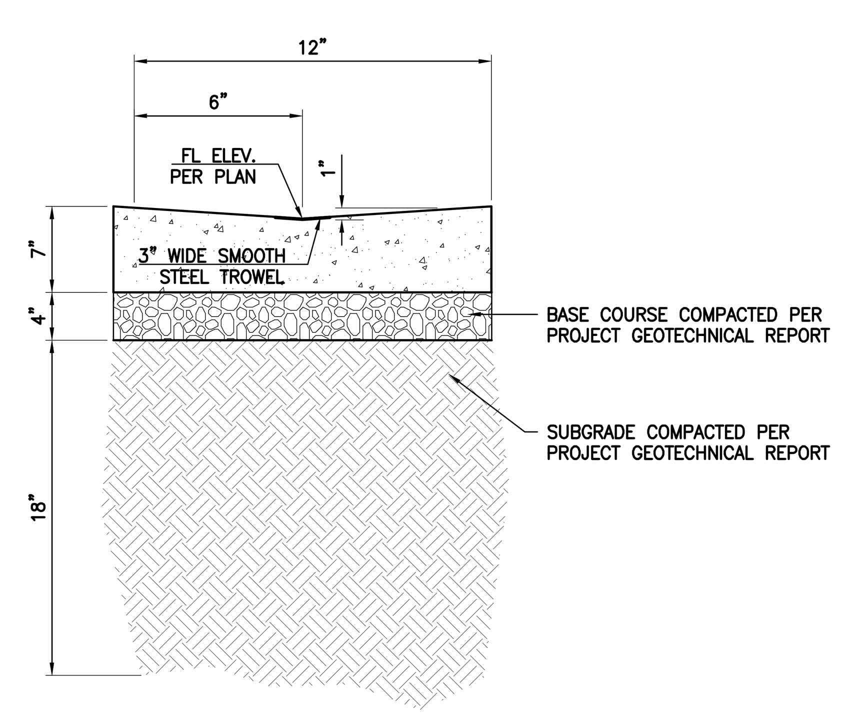
12" x 12" CATCH BASIN
ORG. DWG. DATE 04-20-95 | REV. DWG. DATE 05-18-00
BROOKS PRODUCTS
1212 CB

4 CONCRETE WALK SECTION (N.T.S.)



NOTES:
1. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.
2. REFER TO LANDSCAPE DRAWINGS FOR COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE LANDSCAPE DRAWINGS FOR LOCATION OF CONTROL JOINTS.

3 CONCRETE VALLEY GUTTER (N.T.S.)



NOTES:
1. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED.
2. CONTROL JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 10' INTERVALS O.C.

2 24" X 24" CATCH BASIN (N.T.S.)

2424 CAST IRON GRATE

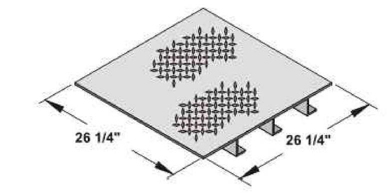
PARKWAY 112 lbs.

2424 STEEL GRATES

PARKWAY 48 lbs.
TRAFFIC 103 lbs.

2424 STEEL COVER

PARKWAY 81 lbs.
TRAFFIC 114 lbs.

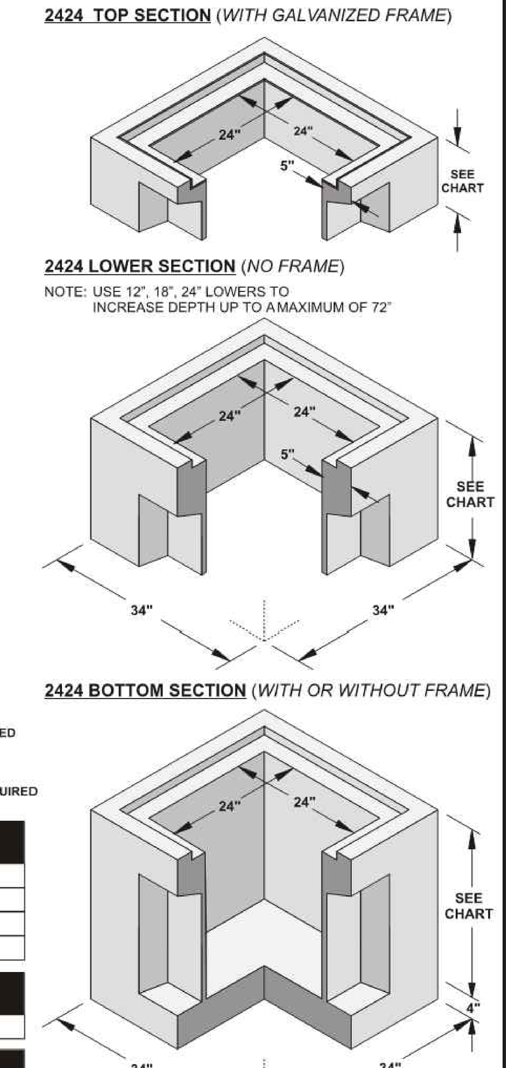


2424 TOP SECTION (*WITH GALVANIZED FRAME*)

2424 LOWER SECTION (*NO FRAME*)

NOTE: USE 12", 18", 24" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

2424 BOTTOM SECTION (*WITH OR WITHOUT FRAME*)



7-04

NOTES:
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC .
3. "HEEL PROOF" GRATES AVAILABLE IN PARKWAY ONLY
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED

TOP SECTION	HT.	LBS	KNOCK-OUTS
2424 T6	6"	270	NONE
2424 T12	12"	495	(4) 6" x 11"
2424 T18	18"	745	(4) 9" x 12"
2424 T24	24"	870	(4) 14" x 14"

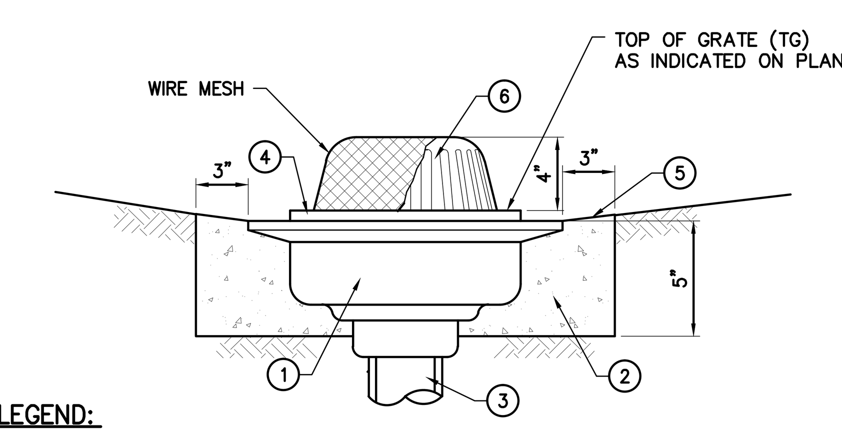
EXTENSION SECTION	HT.	LBS	KNOCK-OUTS
2424 E6	6"	270	NONE

LOWER SECTION	HT.	LBS	KNOCK-OUTS
2424 L12	12"	495	(4) 6" x 11"
2424 L18	18"	745	(4) 9" x 12"
2424 L24	24"	870	(4) 14" x 14"

BOTTOM SECTION	HT.	LBS	KNOCK-OUTS
2424 B30	30"	1595	(4) 18" x 18"
2424 B36	36"	1905	(4) 18" x 18"

24" x 24" CATCH BASIN
ORG. DWG. DATE 11-23-99 | REV. DWG. DATE 02-28-00
BROOKS PRODUCTS
2424 CB

1 PLANTER DRAIN DETAIL (N.T.S.)



LEGEND:

1. GALVANIZED CAST IRON BODY AND GRATE AREA DRAIN.
2. 2,500 PSI PORTLAND CEMENT CONCRETE PAD (PAD MAY BE EITHER ROUND OR SQUARE IN PLAN VIEW).
3. OUTLET PIPE TO MATCH PIPE SIZE PER PLAN.
4. TOP OF DRAIN ELEVATION PER PLAN.
5. FINISH GRADE PER PLAN.
6. DOME TOP WHERE INDICATED ON PLAN (SEE TABLE BELOW)

SIZE	TYPE	ITEM DESCRIPTION	MODEL NO.	FREE AREA (SQ IN)
12" DIA.	DOME	ZURN PLUMBING PRODUCTS	Z121-VP-G	78
12" DIA.	DOME	JAY R. SMITH MFG. CO.	2675-G	53

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REVIEWED BY : DATE : ______ 20 __

REVIEWED BY : DATE : ______ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

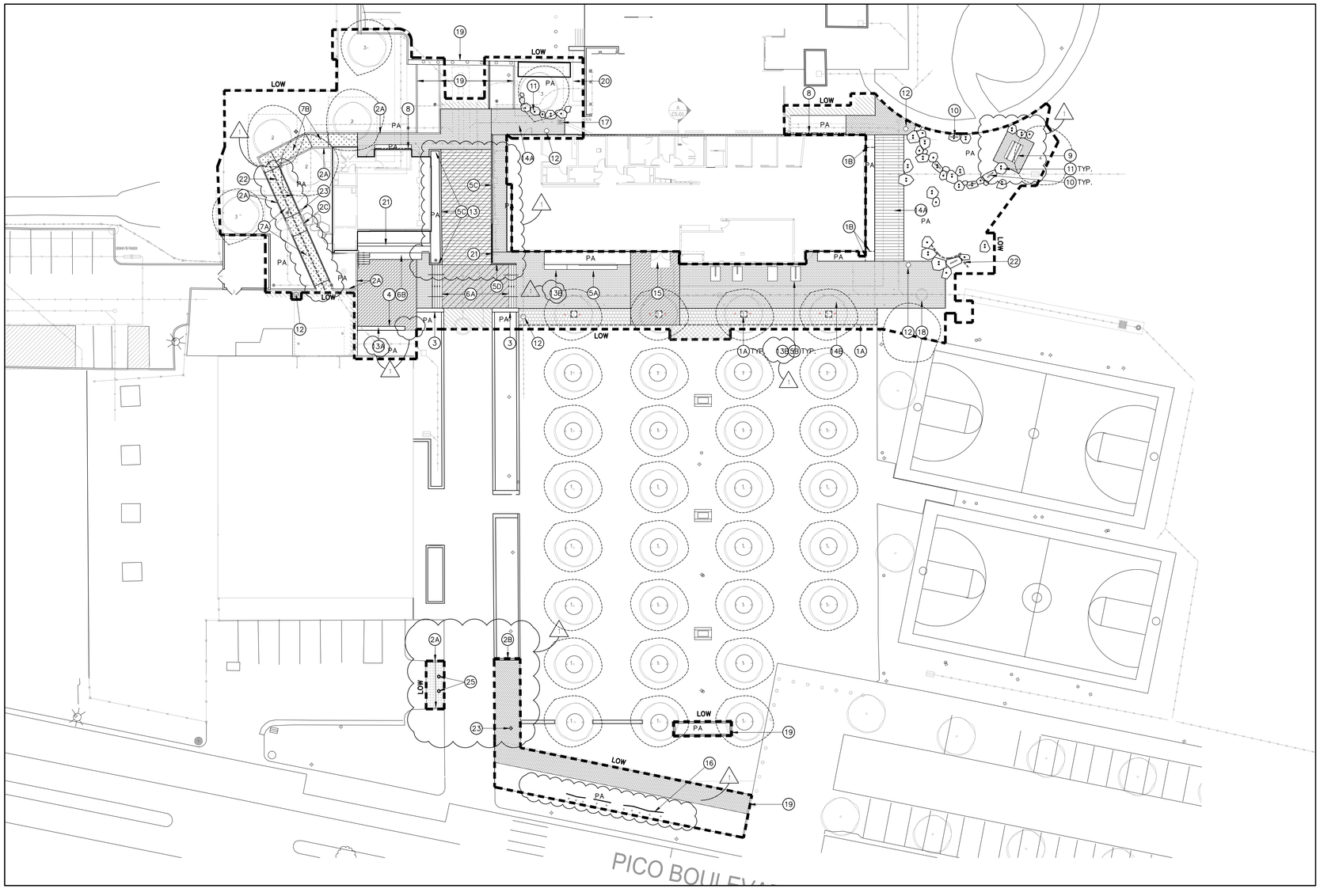
DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
Details

SHEET NO.
C5.01

SHEET OF
DWG. NO. : -
TITLE OF PROJECT :



HARDSCAPE LEGEND

SYMBOL		ITEM	DETAIL
VEHICULAR	PEDESTRIAN	NOTES: CONCRETE PAVING TYPES 1,2 AND 3 SAW-CUT USE EXISTING SITE PAVING TO MATCH AS REFER	
		CONCRETE PAVING – TYPE 1	1+2 / L1.03
		CONCRETE PAVING – TYPE 2	1+2 / L1.03
		CONCRETE PAVING – TYPE 3	1+2 / L1.03
		CONCRETE PAVING – TYPE 4 PERMEABLE	5 / L1.03
		RESIN PAVEMENT	6 / L1.04
		EXISTING CONCRETE PAV. TO REMAIN	
		PERMEABLE PAVERS	3 / L1.03
		ASPHALT	
		FLAGSTONE PAVERS	7 / L1.03
		SAW CUT SCORE LINE (TYP)	2 / L1.03
	EJ	EXPANSION JOINT (TYP)	2 / L1.03

HEADERS/WALLS/STAIRS/RAILINGS

1A	METAL PAVER EDGE RESTRAINT TYPE 1	3 / L1.03
1B	METAL EDGING, TYPE 2	4 / L1.03
2A	RAISED CURB, TYPE 1	6 / L1.03
2B	RAISED CURB, TYPE 2	
2C	MOW CURB	1 / L1.04
3	CHEEK WALL	2 / L1.05
4	SEAT WALL, TYPE 1	2+4 / L1.04
5A	SEAT WALL WITH WOOD BENCH, TYPE 2	5 / L1.04 · 7 / L1.04
5B	SEAT WALL WITH WOOD BENCH, TYPE 3	4 / L1.05
5C	RETAINING WALL, TYPE 1	3 / L1.04
5D	RETAINING WALL, TYPE 2	3 / L1.04
6A	CONCRETE STEPS WITH HANDRAILS	5 / L1.06
6B	TERRACED AMPHITHEATER AND STEPS	
7A	RAMP WITH HANDRAIL	6 / L1.06
7B	SLOPED WALK	

SITE FURNISHINGS

8	VINE CABLE SYSTEM	1 / L1.07
9	PICNIC TABLES	1 / L1.05
10	BENCH	3 / L1.05
11	BOULDERS: LARGE BOULDER, MEDIUM BOULDER, SMALL BOULDER	1–4 / L1.06
12	TRASH	

OTHER

3A	SKATEBOARD DETERRENT, TYPE 1	4 / L1.04
3B	SKATEBOARD DETERRENT, TYPE 2	7 / L1.04
4A	BUILDING CANOPY	
4B	PLAZA SHADE STRUCTURE	
15	DOOR MAT	
16	LIBRARY MONUMENT SIGN	
17	CATCH BASIN	
18	CDS UNIT	
19	EXISTING CURB TO REMAIN	
20	EXISTING PLANTER TO REMAIN	
21	GUARDRAIL OR HANDRAIL	
22	PERFORATED PIPE	
23	EXISTING LIGHT TO REMAIN	
24	RELOCATED BOLLARDS	4 / L1.08
	TREE PROTECTION ZONE (TPZ)	
	LIMIT OF WORK	
PA	PLANTING AREA	

20' 10' 0' 20' 15' 5'

N

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ANDREW SPURLOCK 1983
Signature
07/31/12
Renewal Date
Date
STATE OF CALIFORNIA

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1	02/21/12		ADDENDUM 2

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ISSUE
ADDENDUM 2

DATE

DRAWING NO. **6693**

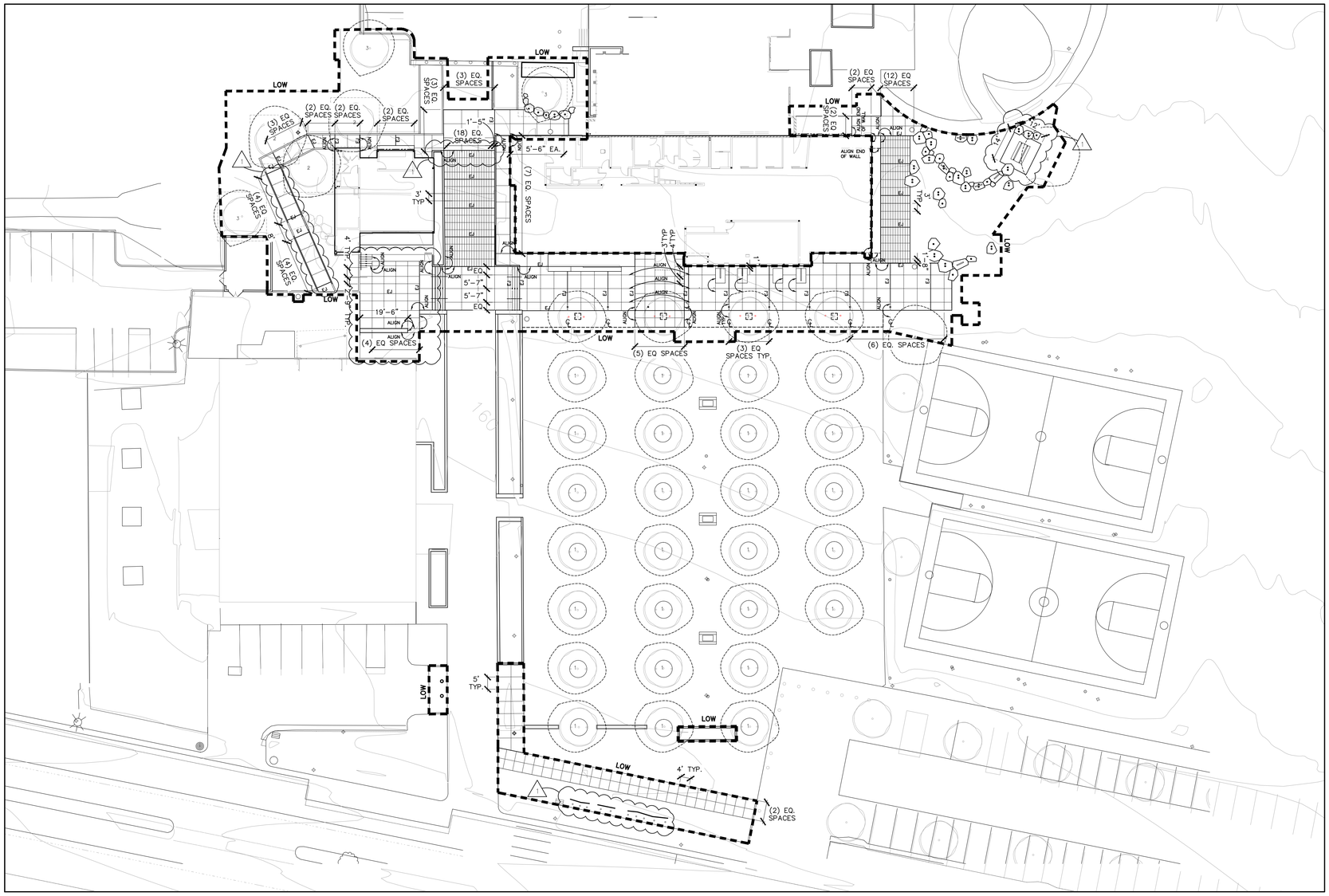
SHEET TITLE
Hardscape Plan

SHEET NO.
L1.01A

SHEET OF

DWG. NO. :

TITLE OF PROJECT :



HARDSCAPE LAYOUT LEGEND

- ALIGN
- CENTERLINE
- TREE CENTER POINTS
- LIMIT OF WORK
- EXPANSION JOINT (TYP)
- SAW CUT SCORE LINE (TYP)

20' 10' 0' 20'
15' 5'

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SHEET TITLE

Hardscape
Dimension Plan

SHEET NO.
L1.01B

SHEET OF

DWG. NO. :

TITLE OF PROJECT :

HARDSCAPE LEGEND

NOTES: CONCRETE PAVING TYPES 1,2 AND 3 SAW-CUT SCORE LINES SHALL BE MADE WITH A BEVELED BLADE FOR A "V" SHAPE RESULT, REST SHALL BE STRAIGHT SAW-CUT SCORE LINES USE EXISTING SITE PAVING TO MATCH AS REFERENCE PANELS

SYMBOL (VEHICULAR / PEDESTRIAN)	ITEM	DETAIL	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	SPECIFICATION
	CONCRETE PAVING – TYPE 1	1+2 L1.03	4" THICK PEDESTRIAN, VEHICULAR DEPTH PER CIVIL, INTEGRAL COLOR, COLOR AND FINISH TO MATCH EXISTING	L.M. SCOFIELD: 800–800–9900	"WINTER BEIGE", WASHED SAND FINISH	PROVIDE MOCKUP	32 13 16 32 13 73
	CONCRETE PAVING – TYPE 2	1+2 L1.03	4" THICK PEDESTRIAN, VEHICULAR DEPTH PER CIVIL, INTEGRAL COLOR	L.M. SCOFIELD: 800–800–9900 SOUTHWEST BOULDER: 877–792–7625	"WINTER BEIGE", SEEDED AGGREGATE FINISH 3/4" SOUTHWEST BROWN CRUSHED AGGREGATE	PROVIDE MOCKUP	32 13 16 32 13 73
	CONCRETE PAVING – TYPE 3	1+2 L1.03	4" THICK PEDESTRIAN, VEHICULAR DEPTH PER CIVIL, INTEGRAL COLOR WITH SELECT LITHOCRETE GLASS AGG. COLOR AND FINISH TO MATCH EXISTING	LITHOCRETE PAVING PER US PATENT 4,748,788 AND 6,016,635 CONTRACTOR: SHAW AND SONS OR EQUAL	"WINTER BEIGE" COLOR BY LM SCOFIELD 70% MEDIUM–DARK ORANGE, 30% MEDIUM–LIGHT, 3/16" TO 1/4", GRANULAR SHAPE, 75% DENSITY AT SURFACE SAND FINISH	PROVIDE MOCKUP	32 13 16 32 13 73
	CONCRETE PAVING – TYPE 4 PERMEABLE	5 L1.03	4" THICK PEDESTRIAN PERMEABLE CONCRETE PAVING, GROUND FINISH, INTEGRAL COLOR WITH BASE	L.M. SCOFIELD: 800–800–9900	"WINTER BEIGE" COLOR BY LM SCOFIELD GROUND FINISH	PROVIDE MOCKUP WITH METAL EDGE DETAIL	32 14 45
	RESIN PAVEMENT	6 L1.04	DECOMPOSED GRANITE AGGREGATE WITH 'ROAD OYL' TO MATCH EXISTING	SOIL STABILIZATION PRODUCTS 800–523–9992, SOUTHWEST BOULDER 877–792–7625	"ROAD OYL" WITH AUTUMN GOLD AGGREGATE	PROVIDE MOCKUP	32 12 17
	EXISTING CONCRETE PAV. TO REMAIN		REPAIR AS NECESSARY TO MATCH EXISTING				
	PERMEABLE PAVERS	3 L1.03	4" x 8" x 2 3/8" THICK CERAMIC–BASED POROUS PAVERS STACK PATTERN WITH LONG DIMENSION RUNNING NORTH–SOUTH	AIROSTONE: 415–661–4648	"EKOPAVERS TYPE 2" PAVERS "SAND" COLOR	PROVIDE MOCKUP WITH METAL PAVER EDGE RESTRAINT	32 14 43
	ASPHALT		REFER TO CIVIL DRAWINGS				
	FLAGSTONE PAVERS	7 L1.03	SAND–BASED FLAGSTONE PAVERS, MINIMUM 3' x 3' SIZE	SOUTHWEST BOULDER 877–792–7625	2" THICK, TYPE TO BE DETERMINED	PROVIDE MOCKUP	32 90 50
	SAW CUT SCORE LINE (TYP)	2 L1.03					
EJ	EXPANSION JOINT (TYP)	2 L1.03					

HEADERS/WALLS/STAIRS/RAILINGS

1A	METAL PAVER EDGE RESTRAINT TYPE 1	3 L1.03	3/16" THICK X 2–1/4" ALUMINUM PAVER RESTRAINT WITH STEEL STAKES PER MANUFACTURER	PERMALOC: 800–256–9660	STRUCTUREDGE ALUMINUM PAVER RESTRAINT, COLOR AND FINISH: "BLACK DURAFLEX"		05 50 00
1B	METAL EDGING, TYPE 2	4 L1.03	1/4" X 5" STEEL EDGING	DURAEDGE 800–888–7425	BLACK COLOR		32 93 00
2A	RAISED CURB, TYPE 1	6 L1.03	C.I.P. CONCRETE CURB, 6" WIDE, 6" ABOVE F.S., DEPTH OF FOOTING VARIES		STANDARD GRAY CONCRETE, LIGHT BROOM FINISH		32 13 13
2B	RAISED CURB, TYPE 2		C.I.P. CONCRETE CURB TO MATCH EXISTING				
2C	MOW CURB	1 L1.04	C.I.P. CONCRETE CURB, 6" WIDE, SURFACE FLUSH WITH ADJACENT SURFACE		STANDARD GRAY CONCRETE, LIGHT BROOM FINISH		32 13 13
3	CHEEK WALL	2 L1.05	C.I.P. CONCRETE WALL, 2'–0" WIDE, COLOR AND FINISH TO MATCH EXISTING WALLS	L.M. SCOFIELD: 800–800–9900	"WINTER BEIGE" COLOR, WASHED SAND FINISH	PROVIDE MOCKUP	03 33 00
4	SEAT WALL, TYPE 1	2+4 L1.04	C.I.P. CONCRETE FEATURE WALL ,18"H X 18"W C.I.P. CONCRETE SEAT WALL, INTEGRAL COLOR. COLOR AND FINISH TO MATCH EXISTING WALLS	L.M. SCOFIELD: 800–800–9900	"WINTER BEIGE" COLOR, WASHED SAND FINISH		03 33 00
5A	SEAT WALL WITH WOOD BENCH, TYPE 2	5 L1.04, 7 L1.04	C.I.P. CONCRETE WALL (2)18"H X 18"W WITH WOOD BACK AND SEAT, INTEGRAL COLOR, LENGTH PER PLAN	L.M. SCOFIELD: 800–800–9900 TIMBERFORM: 800–547–1940	"WINTER BEIGE" COLOR, WASHED SAND FINISH CUSTOM MADE 2006–22–M PARKWAY BENCH, 20'–8" LONG AND 15'–8" LONG ARBOR BACKREST, BLACK CASPAX–7 POWDER–COATED STEEL FRAMES, SALVAGED 3X8 REDWOOD SLATS	PROVIDE MOCKUP	03 33 00 05 50 00 12 93 00
5B	SEAT WALL WITH WOOD BENCH, TYPE 3	4 L1.05	C.I.P. CONCRETE WALL (2)18"H X 18"W WITH WOOD BACK AND SEAT, INTEGRAL COLOR, LENGTH PER PLAN	L.M. SCOFIELD: 800–800–9900 TIMBERFORM: 800–547–1940	"WINTER BEIGE" COLOR, WASHED SAND FINISH (3) CUSTOM MADE 2201–6–B–M ARBOR BENCH BACKREST, 36", 48"& 60" LONG, BLACK CASPAX–7 POWDER–COATED STEEL FRAMES, SALVAGED 3X8 REDWOOD SLATS	PROVIDE MOCKUP	03 33 00 05 50 00 05 50 00
5C	RETAINING WALL, TYPE 1	3 L1.04	C.I.P. CONCRETE WALL, 6" WIDE, HEIGHT VARIES, 6"H RAISED CURB ON HIGH SIDE, INTEGRAL COLOR, FINISH TO MATCH BUILDING WALLS		BOARD FORM FINISH, REFER TO ARCHITECTURAL DWGS.		
5D	RETAINING WALL, TYPE 2	3 L1.04	C.I.P. CONCRETE WALL, 6" WIDE, HEIGHT VARIES, 6"H RAISED CURB ON HIGH SIDE, INTEGRAL COLOR, FINISH TO MATCH BUILDING WALLS		BOARD FORM FINISH, REFER TO ARCHITECTURAL DWGS.		
6A	CONCRETE STEPS WITH HANDRAILS	5 L1.06	CONCRETE STEPS, INTEGRAL COLOR; REUSE EXISTING HANDRAILS HANDRAILS SHALL BE EQUALLY CENTERED ON STEPS,	L.M. SCOFIELD: 800–800–9900	"WINTER BEIGE" COLOR, WASHED SAND FINISH RAILING COLOR: RAL #7026 / POST COLOR: RAL #7039		03 33 00
6B	TERRACED AMPHITHEATER AND STEPS		SEE ARCHITECTS DRAWINGS				
7A	RAMP WITH HANDRAIL	6 L1.06					05 50 00
7B	SLOPED WALK						

SITE FURNISHINGS

8	VINE CABLE SYSTEM	1 L1.07	STAINLESS STEEL METAL CABLE SYSTEM ATTACHED TO WALL REFER TO ARCH. FOR ATTACHMENT DETAIL TO BUILDING	JAKOB INC.: 866–525–6226	JAKOB INC. QUOTATION NUMBER 16102, AT COMMUNITY ROOM ONLY	32 94 46
9	PICNIC TABLES	1 L1.05	WOOD AND STEEL ACCESSIBLE TABLE	TIMBERFORM: 800–547–1940	CUSTOM MADE 2063 ACCESSIBLE PICNIC TABLE AND SEATS BLACK CASPAX–7 POWDER–COATED STEEL FRAMES, SALVAGED 3X8 REDWOOD SLATS	12 93 00
10	BENCH	3 L1.05	(5) 3' WIDE WOOD BACK ON LARGE BOULDER	TIMBERFORM: 800–547–1940	CUSTOM MADE 2201–6–B–M ARBOR BENCH BACKREST, 36" LONG BLACK CASPAX–7 POWDER–COATED STEEL FRAMES, SALVAGED 3X8 REDWOOD SLATS, PROVIDE MOCKUP	12 93 00 32 90 50
11	BOULDERS: LARGE BOULDER MEDIUM BOULDER SMALL BOULDER	1–4 L1.06	LARGE BOULDERS: 5' X 27–30"H MEDIUM BOULDERS: 2.5' TO 3.5' X 24–27" H SMALL BOULDERS: 1–2' X 12–18" H	SOUTHWEST BOULDER: 877–792–7625	"SOUTHWEST BROWN" PROVIDE MOCKUP	32 90 50
12	TRASH		(5) CONCRETE TRASH RECEPTACLE WITH LID	QUICKCRETE: 909–737–6340	#QR–CAL3136WA26; RECEPTACLE W/ #A–26 LID (ALUMINUM) CONCRETE FINISH: COLOR #C–1, TEXTURE #T–1; LINER ORPL26	12 93 00

OTHER

13A	SKATEBOARD DETERRENT, TYPE 1	4 L1.04	STAINLESS STEEL INSERTS	SKATESTOPPERS 619–447–6374	DIAMOND 90–12	05 50 00
13B	SKATEBOARD DETERRENT, TYPE 2	7 L1.04	STAINLESS STEEL INSERTS, CUSTOM TO MATCH SEAT WALL WITH WOOD BENCH, TYPE 2			05 50 00
14A	BUILDING CANOPY		PER ARCHITECT			
14B	PLAZA SHADE STRUCTURE		PER ARCHITECT			
15	DOOR MAT		PER ARCHITECT			
16	LIBRARY MONUMENT SIGN		PER SIGNAGE DRAWINGS			
17	CATCH BASIN		PER CIVIL			
18	CDS UNIT		PER CIVIIL			
19	EXISTING CURB TO REMAIN		SAWCUT AND FINISH END			
20	EXISTING PLANTER TO REMAIN		PROTECT IN PLACE			
21	GUARDRAIL OR HANDRAIL		PER ARCHITECT			
22	PERFORATED PIPE		REFER TO CIVIL FOR PIPE AND CONNECTION INFORMATION			
23	EXISTING LIGHT TO REMAIN		PROTECT IN PLACE			
24	RELOCATED BOLLARDS	4 L1.08				
	TREE PROTECTION ZONE (TPZ)		REFER TO PLANTING PLANS			
	LIMIT OF WORK					
PA	PLANTING AREA					

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ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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LICENSED LANDSCAPE ARCHITECT
AUDREY SPURLOCK – 1983
Signature
07/31/12
Renewal Date
Date
STATE OF CALIFORNIA

CONSULTANT

City of Santa Monica
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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

ADDENDUM 2

DATE

DRAWING NO. **6693**

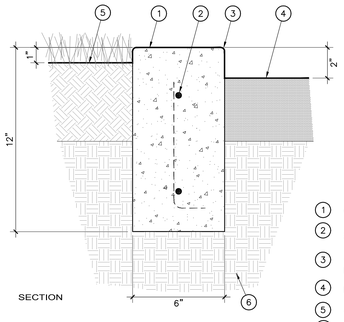
SHEET TITLE
Hardscape Legend

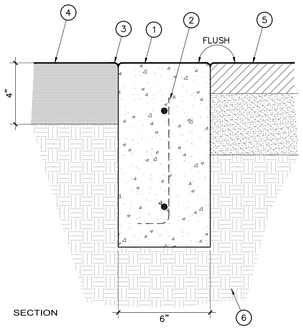
SHEET NO.
L1.02

SHEET OF

DWG. NO. :

TITLE OF PROJECT :





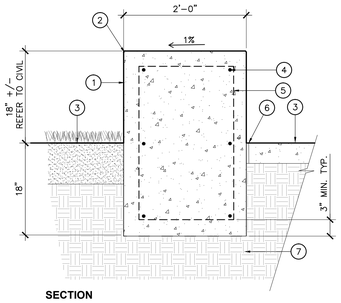
1. CONCRETE
2. #4 REBAR CONT. @ 16" O.C. VERT. CENTERED ON CURB, TYP.
3. 1/8" RADIUS AT ALL EXPOSED EDGES
4. PAVING PER LEGEND
5. ADJACENT FLAGSTONE PAVING PER (7 / L1.03)
6. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

NOTES:

1. PROVIDE EXPANSION JOINTS WHERE INDICATED ON THE DRAWINGS AND WHERE PAVING ABUTS WALLS, CURBS, STEPS, TOP & BOTTOM OF RAMPS AND OTHER VERTICAL APPURTENANCES. OMIT DOWELS WHERE ABUTTING WALLS, BUILDINGS AND CURBS.

1 MOW CURB

3" = 1'-0"



1. C.I.P. CONCRETE WALL REFER TO HARDSCAPE LEGEND FOR FINISH
2. 1/8" RADIUS AT ALL EXPOSED EDGES
3. FINISH SURFACE, REFER TO PLAN
4. #4 HORIZONTAL @12" O.C.
5. #4 VERTICAL @12" O.C.
6. EXPANSION JOINT
7. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

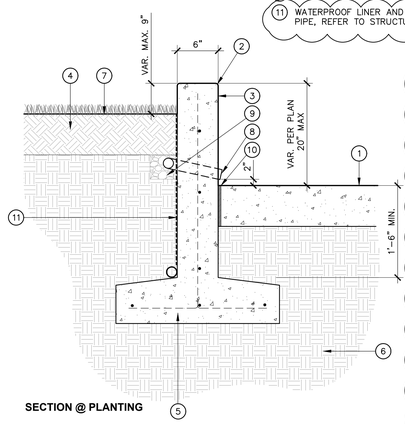
NOTES:

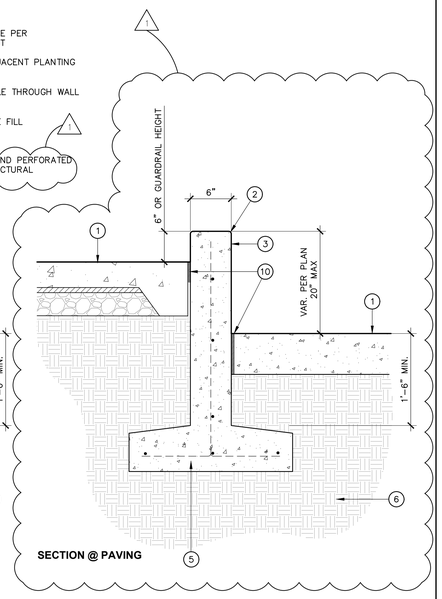
1. SEE GRADING PLAN FOR FINISH GRADE ELEVATIONS AND FOR TOP OF WALL AND TOP OF CURB ELEVATIONS
2. SEE HARDSCAPE LEGEND FOR CONCRETE COLOR AND FINISH
3. REFER TO STRUCTURAL FOR FOOTING AND REINFORCEMENT REQUIREMENTS

1" = 1'-0"

2 C.I.P. CONCRETE SEAT WALL TYPE 1

1. ADJACENT FINISH SURFACE, PER HARDSCAPE PLAN
2. 1/8" R TOOLED EDGE, TYP. @ ALL EXPOSED EDGES
3. C.I.P. CONCRETE CURB WALL, FINISH PER PLAN
4. AMENDED SOIL FOR PLANTING AREA
5. CONCRETE FOOTING AND REINFORCING, REFER TO STRUCTURAL
6. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
7. FINISH GRADE OF ADJACENT PLANTING AREA
8. 2" DIA. PVC WEEPHOLE THROUGH WALL AT 24" O.C.
9. DRAINAGE AGGREGATE FILL
10. EXPANSION JOINT
11. WATERPROOF LINER AND PERFORATED PIPE, REFER TO STRUCTURAL



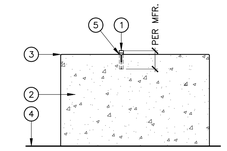


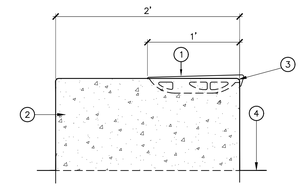
NOTES:

1. SEE GRADING PLAN FOR FINISH GRADE ELEVATIONS AND FOR TOP OF WALL AND TOP OF CURB ELEVATIONS
2. SEE HARDSCAPE LEGEND FOR CONCRETE COLOR AND FINISH
3. REFER TO STRUCTURAL FOR FOOTING AND REINFORCEMENT REQUIREMENTS
4. REFER TO STRUCTURAL FOR WATERPROOFING AND PIPE REQUIREMENTS

1" = 1'-0"

3 C.I.P. CONCRETE RETAINING WALL





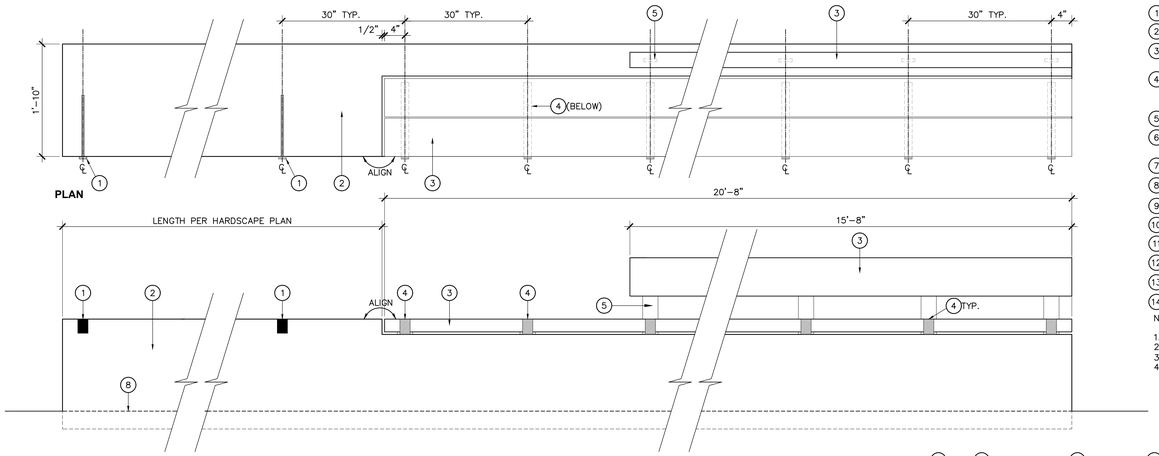
1. 316 GRADE STAINLESS STEEL "T" PLATE .56" THICK, 12" +/-" LONG, 2"+/- TALL, MOUNTED IN SAWCUT. ALIGN SKATEBOARD DETERRENT WITH CONCRETE PAVING SCORELINES.
2. C.I.P. CONCRETE WALL, TYPE 1
3. 1/8" RADIUS
4. FINISH SURFACE PER PLAN
5. 1/4" SAWCUT, FILL WITH EPOXY ADHESIVE TO MATCH WALL COLOR.

NOTE:

1. COORDINATE DETAIL WITH MANUFACTURER

1 1/2" = 1'-0"

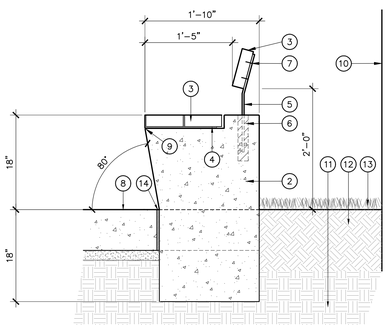
4 SKATEBOARD DETERRENT, TYPE 1

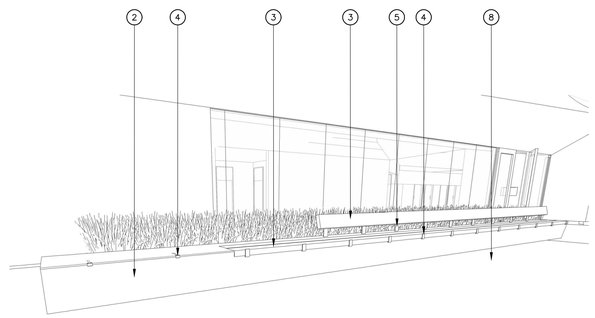


1. CUSTOM SKATEBOARD DETERRENT, COLOR TO MATCH FURNITURE (7 / L1.04)
2. C.I.P. CONCRETE WALL, COLOR AND FINISH PER HARDSCAPE PLAN
3. 3 X 8 F.S.C. SALVAGED REDWOOD SLAT, TO BE PROVIDED BY MANUFACTURER
4. 2006-22-M PARKWAY WALL-TOP SEAT WITH ARBOR BACKREST WITH POWDER-COATED STEEL SUPPORTS. INTEGRATED SKATEBOARD DETERENTS
5. ARBOR BACKREST WITH POWDER-COATED STEEL SUPPORTS
6. EPOXY RESIN. SEATBACK EMBEDDED INTO CONCRETE, DEPTH PER MANUFACTURER, COLOR TO MATCH CONCRETE
7. METAL FASTENER, TO BE SUPPLIED BY MANUFACTURER
8. ADJACENT FINISH SURFACE, PER HARDSCAPE PLAN
9. 1/8" RADIUS ON ALL EXPOSED EDGES
10. BUILDING WALL
11. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
12. AMENDED SOIL PER SPECIFICATIONS
13. PLANT MATERIAL PER PLANS
14. EXPANSION JOINT

NOTES:

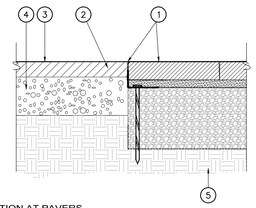
1. DETAIL PER MANUFACTURER
2. MANUFACTURER: TIMBERFORM SITE FURNISHINGS, 800-547-1940
3. INSTALL BENCHES PER MANUFACTURER'S SPECIFICATIONS
4. REFER TO LEGEND FOR MODEL NUMBER





PERSPECTIVE
NOT TO SCALE

5 SEAT WALL WITH WOOD BENCH, TYPE 2

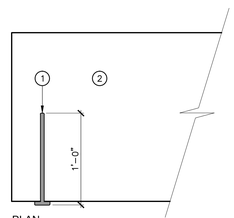


1. PAVERS AND EDGING PER LEGEND
2. FILL ALL VOIDS UNDER RESTAINT FOR PROPER SUPPORT.
3. "ROAD OYL" RESIN MODIFIED EMULSION D.G. STABILIZER 2" DEPTH, ROLL TO COMPACT 90% MIN. PAVING TO MEET FLUSH WITH EDGING/ASPHALT SEE PLANS FOR LAYOUT
4. GRANULAR BASE PER CIVIL
5. COMPACTED SUBGRADE PER SOILS REPORT.

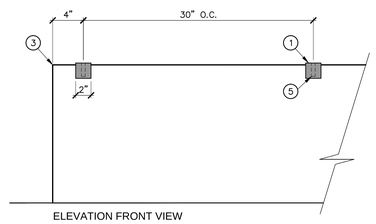
NOTES:
1. MILL FINISH - NATURAL ALUMINUM TYP.
2. 8' SECTIONS CONNECTED WITH 4" SLIDING CONNECTOR.

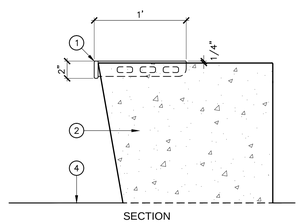
6 RESIN PAVING

1" = 1'-0"



1. CUSTOM SKATEBOARD DETERRENT. 316 GRADE STAINLESS STEEL "T" PLATE .56" THICK, 12" +/-" LONG, 2"+/- TALL, MOUNTED. PAINTED BLACK CASPAX-7 TO MATCH FURNITURE. GRAIND ALL EXPOSED EDGES TO 1/8" RADIUS MOUNTED 30"O.C.
2. C.I.P. CONCRETE WALL PER (5 / L1.04)
3. 1/8" RADIUS
4. FINISH SURFACE PER PLAN
5. 1/4" SAWCUT, FILL WITH EPOXY ADHESIVE TO MATCH WALL COLOR.





7 SKATEBOARD DETERRENT, TYPE 2

1" = 1'-0"

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ARCHITECT'S PROJECT NO.
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ARCHITECT

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LICENSED LANDSCAPE ARCHITECT
ANDREW SPURLOCK - 1983
Signature
07/31/12
Renewal Date
Date
STATE OF CALIFORNIA

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REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE

DRAWING NO. **6693**

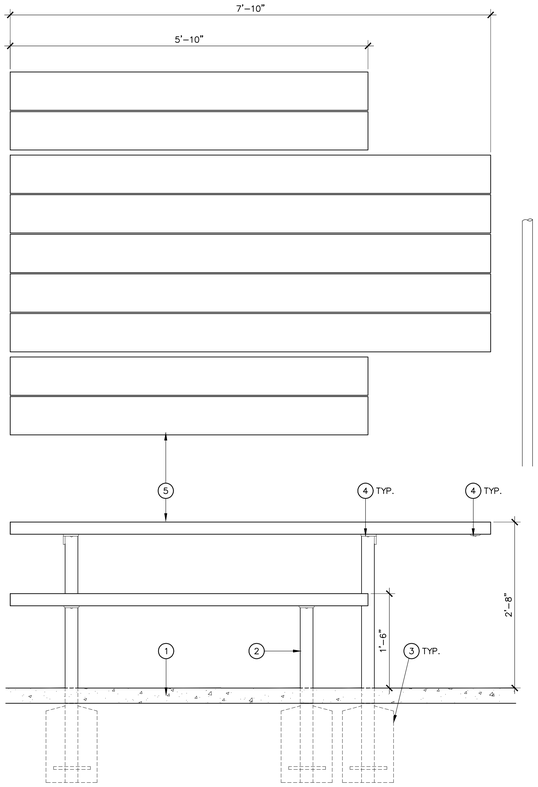
SHEET TITLE
Hardscape Details

SHEET NO.
L1.04

SHEET OF

DWG. NO. :

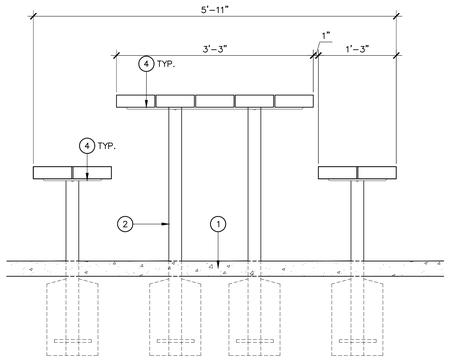
TITLE OF PROJECT :



1 ADJACENT CONCRETE, PER HARDCAPE PLAN
2 2063-8-E-M PARKWAY ACCESIBLE PICNIC TABLE WITH BLACK POWDER-COAT FINISH
3 C.I.P. CONCRETE FOOTING, PER MANUFACTURER SPECIFICATIONS
4 METAL FASTENER, TO BE SUPPLIED BY MANUFACTURER
5 3 X 8 SALVAGE REDWOOD PLANK, TO BE SUPPLIED BY MANUFACTURER

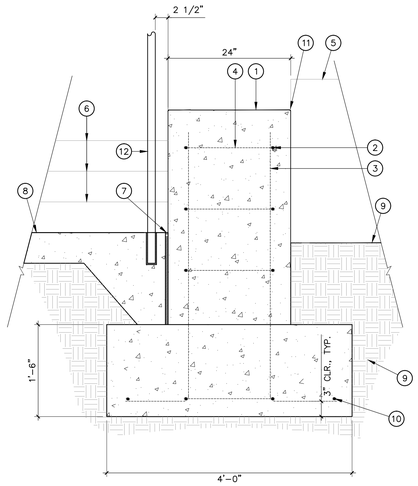
NOTES:

1. DETAIL PER MANUFACTURER
2. MANUFACTURER: TIMBERFORM SITE FURNISHINGS, 800-547-1940
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS
4. REFER TO LEGEND FOR MODEL NUMBER



1 PICNIC TABLE

1" = 1'-0"



SECTION

1 CONCRETE CHEEK WALL
2 #5 CONT. 12" O.C. HORIZONTAL EACH FACE
3 #5 CONT. 12" O.C. VERTICAL EACH FACE
4 #3 CONT. 24" O.C.
5 WALL BEYOND WHERE OCCURS SEE PLANS
6 STEPS BEYOND PER 5/L1.06
7 EXPANSION JOINT PER 2/L1.03
8 FINISH GRADE AT PAVING
9 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
10 (4) #5 CONT.
11 1/4" RADIUS
12 HANDRAIL BEYOND PER LEGEND

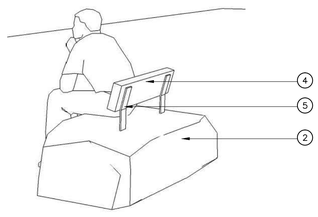
2 CHEEK WALL

1" = 1'-0"

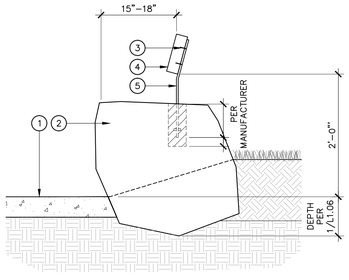
1 ADJACENT FINISHED SURFACE, VARIES PER HARDSCAPE PLAN
2 BOULDER TO MATCH EXISTING ONSITE, TO BE SELECTED BY LANDSCAPE ARCHITECT. TO BE INSTALLED PER 1/L1.06
3 METAL FASTENER, TO BE SUPPLIED BY MANUFACTURER
4 3 X 8 SALVAGE REDWOOD SLATS, TO BE SUPPLIED BY MANUFACTURER
5 2201-6-B-M ARBOR BENCH BACKREST WITH POWDER-COATED STEEL SUPPORTS
6 SEATBACK EMBEDED INTO BOULDER, DEPTH PER MANUFACTURER
7 EPOXY RESIN, TO SECURE SEATBACK INTO BOULDER, HOLE DIA. AND DEPTH PER MANUFACTURER'S RECOMMENDATIONS. COLOR TO MATCH BOULDER.

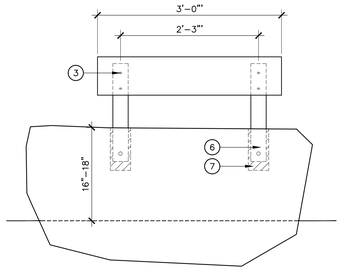
NOTES:

1. DETAIL PER MANUFACTURER
2. MANUFACTURER: TIMBERFORM SITE FURNISHINGS, 800-547-1940
3. INSTALL BENCHES PER MANUFACTURER'S RECOMMENDATIONS
4. LANDSCAPE ARCHITECT TO OBSERVE AND APPROVE CORRECT LOCATIONS OF BOULDERS PRIOR TO INSTALLATION
5. BOULDER TO BE PLACED SUCH THAT A FLAT SURFACE FACES UP, WITH NO PROTRUSIONS EXTENDING VERTICALLY OR ROUGH EDGES EXPOSED



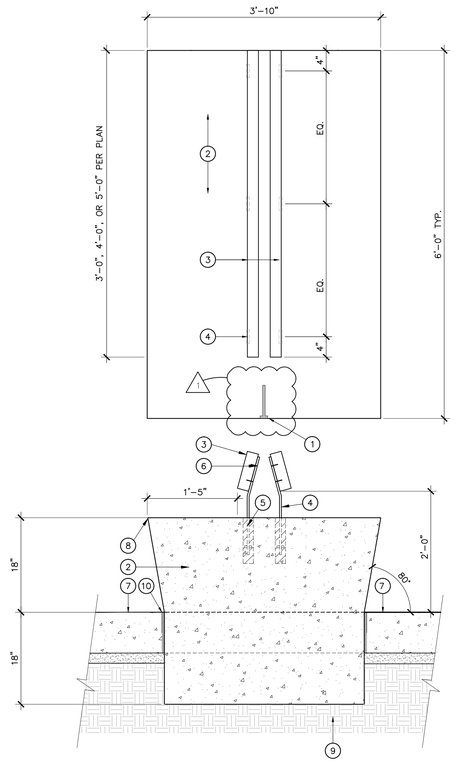
PERSPECTIVE
NOT TO SCALE

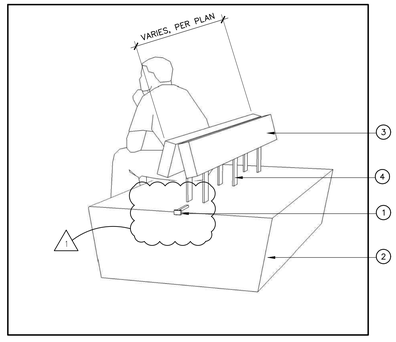




3 BENCH TYPE 2

1" = 1'-0"





PERSPECTIVE
NOT TO SCALE

1 CUSTOM FABRICATED C.I.P. SKATEBOARD DETERRENT
2 C.I.P. CONCRETE BENCH, COLOR AND FINISH PER LEGEND
3 3 X 8 SALVAGE REDWOOD SLAT, TO BE PROVIDED BY MANUFACTURER
4 2201-6-B-M ARBOR BENCH BACKREST WITH POWDER-COATED STEEL SUPPORTS
5 EPOXY RESIN. SEATBACK EMBEDDED INTO CONCRETE, DEPTH PER MANUFACTURER, COLOR TO MATCH CONCRETE
6 METAL FASTENER, TO BE SUPPLIED BY MANUFACTURER
7 ADJACENT FINISH SURFACE, PER HARDSCAPE PLAN
8 1/8" RADIUS AT ALL EXPOSED CONCRETE EDGES
9 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
10 EXPANSION JOINT

NOTES:

1. DETAIL PER MANUFACTURER
2. MANUFACTURER: TIMBERFORM SITE FURNISHINGS, 800-547-1940
3. INSTALL BENCHES PER MANUFACTURER'S SPECIFICATIONS
4. REFER TO LEGEND FOR MODEL NUMBER

4 SEAT WALL, TYPE 3

1" = 1'-0"

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LICENSED LANDSCAPE ARCHITECT
ANDREW SPURLOCK - 1983
STATE OF CALIFORNIA
Signature
07/31/12
Renewal Date
Date

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SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
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Architecture Services Manager
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REVIEWED BY : DATE : _____ 20 __

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1	02/21/12		ADDENDUM 2

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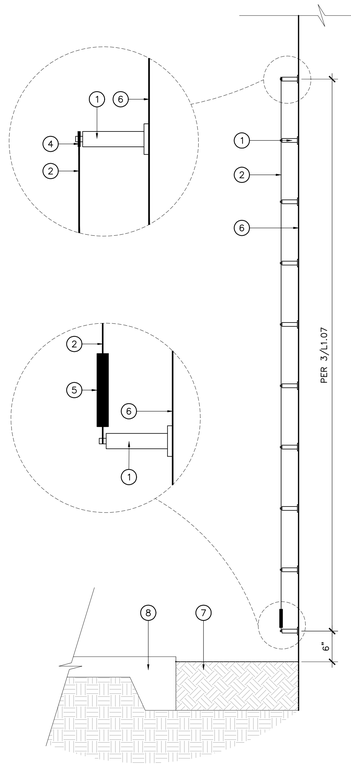
ISSUE
ADDENDUM 2
DATE

DRAWING NO. **6693**

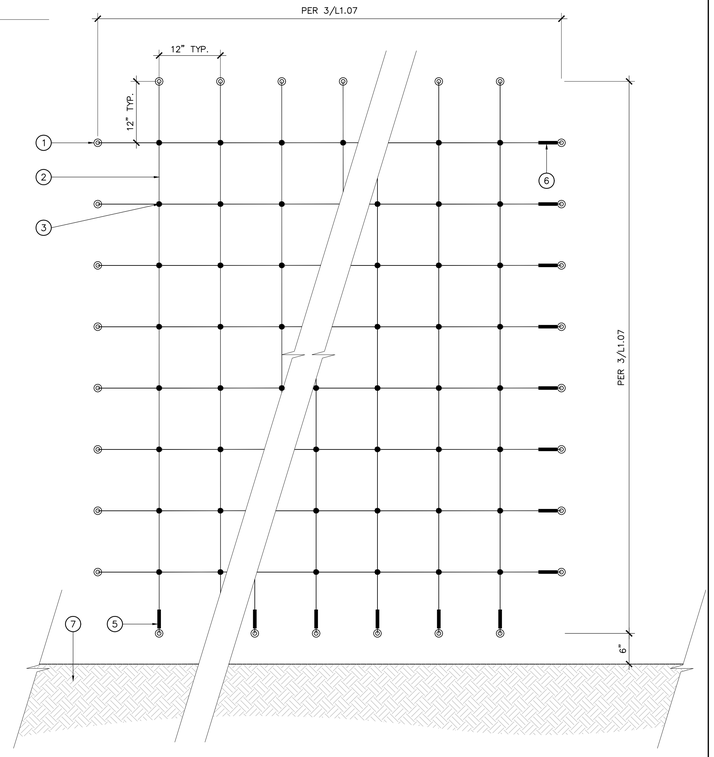
SHEET TITLE
Hardscape Details

SHEET NO.
L1.05

SHEET OF
DWG. NO. :
TITLE OF PROJECT :



SECTION



ELEVATION

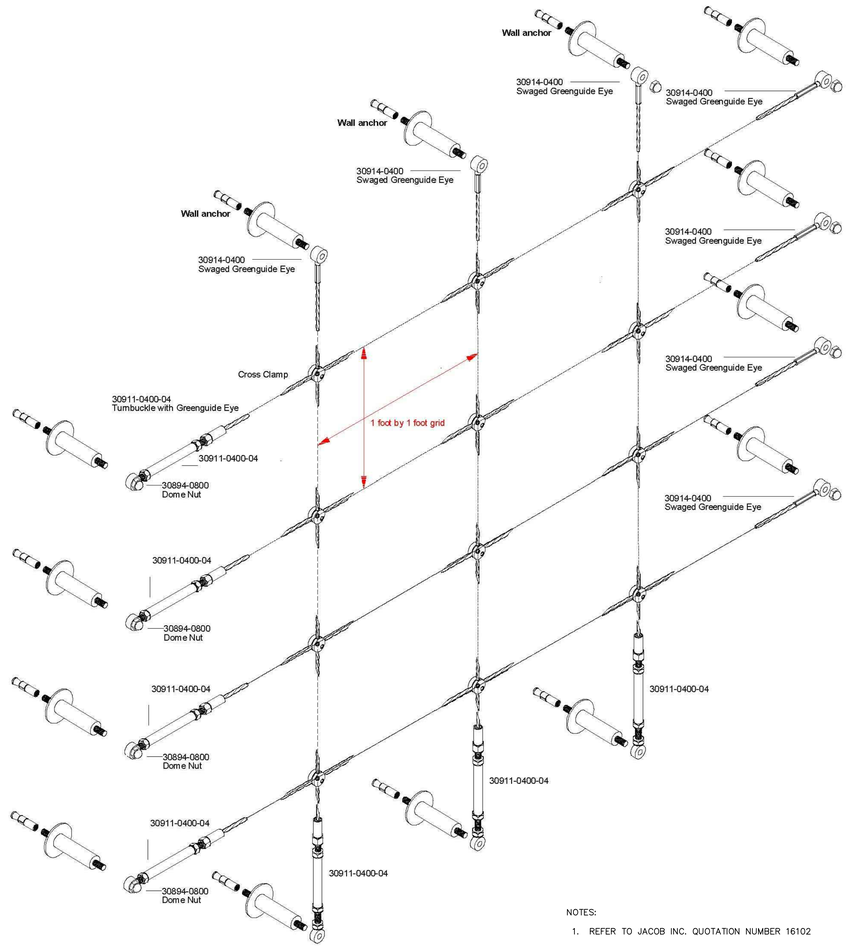
1. 3" STAINLESS STEEL SPACERS, MOUNTED TO WALL
2. 4.0 MM STAINLESS STEEL ROPE, TENSION PER MANUFACTURER SPECIFICATIONS
3. 90 DEGREE CROSS CLAMPS
4. STAINLESS STEEL "GREENGUIDE" EYES
5. STAINLESS STEEL TURNBUCKLE
6. BUILDING WALL, PER ARCHITECT
7. ADJACENT PLANTING AREA WITH AMENDED SOIL, PER HARDSCAPE PLAN
8. ADJACENT CONCRETE PAVING, PER HARDSCAPE PLAN

NOTES:

1. INSTALL PER MANUFACTURER'S DIRECTIONS
2. REFER TO ARCHITECTURAL FOR BUILDING ATTACHMENT DETAIL

1 CABLE VINE TRELLIS

1" = 1'-0"

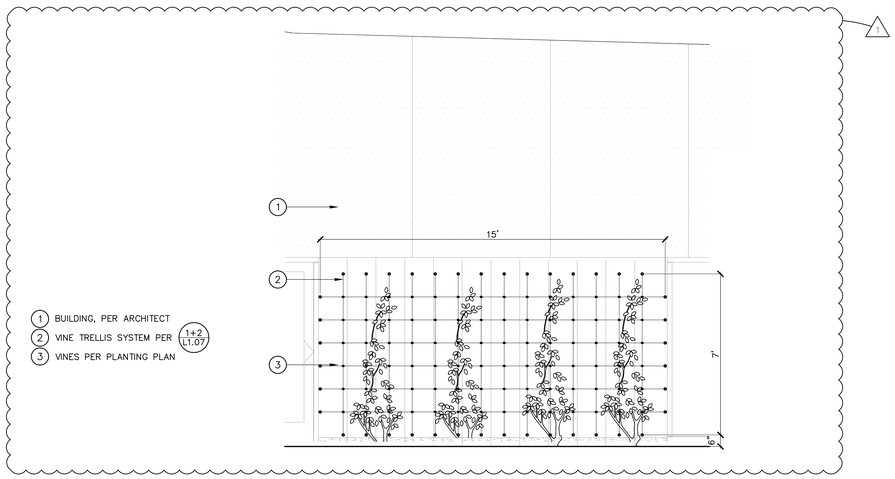


NOTES:

1. REFER TO JACOB INC. QUOTATION NUMBER 16102

2 CABLE VINE TRELLIS COMPONENTS

N.T.S.



1. BUILDING, PER ARCHITECT
2. VINE TRELLIS SYSTEM PER 1+2/L1.07
3. VINES PER PLANTING PLAN

3 CABLE VINE TRELLIS ELEVATIONS

3/8" = 1'-0"

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Date
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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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DRAWING NO. **6693**

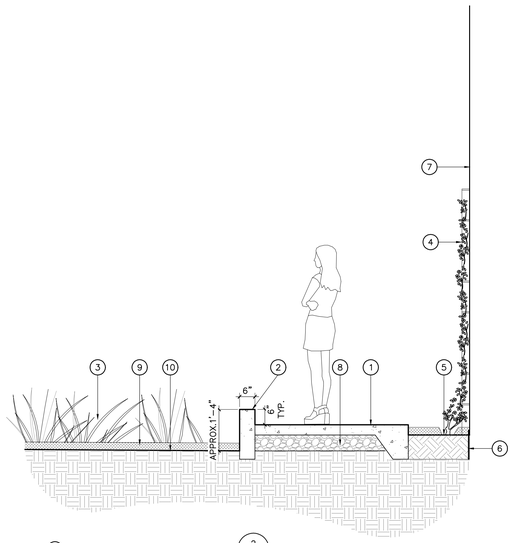
SHEET TITLE
ELEVATIONS

SHEET NO.
L1.07

SHEET OF

DWG. NO. -

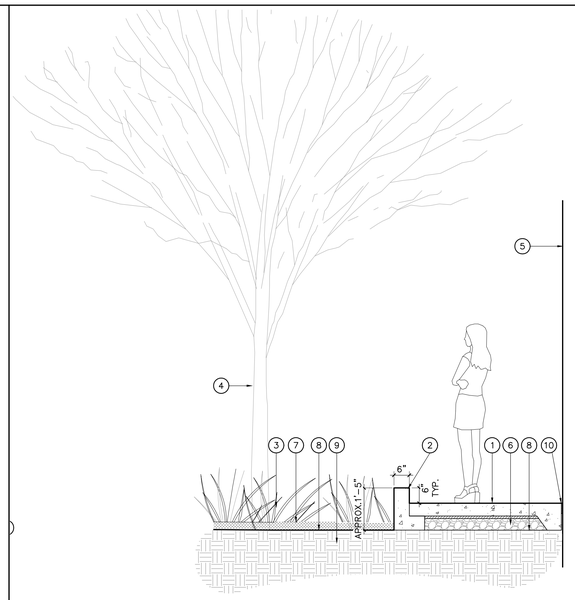
TITLE OF PROJECT :



1. CONCRETE PATH AND CURB PER (2/L1.03)
2. RAISED CONCRETE CURB PER (6/L1.03)
3. NEW PLANTING AREA IN EXISTING GRADE
4. CABLE VINE TRELLIS PER (1-3/L1.07)
5. VINE TRELLIS PLANTING ADJACENT TO BUILDING
6. WATERPROOFING ADJACENT TO PLANTING PER ARCHITECT
7. WALL OF BUILDING AND WATERPROOFING, PER ARCHITECT
8. COMPACTED AGGREGATE BASE ON RECOMPACTED SUBGRADE PER GEOTECHNICAL REPORT
9. MULCH PER PLANS
10. EXISTING GRADE

1 SECTION A-A'

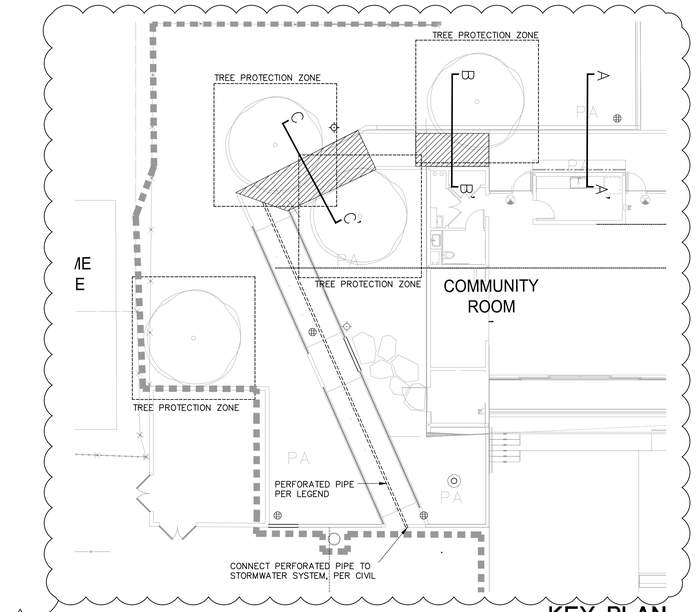
1/2" = 1'-0"



1. POROUS CONCRETE PATH PER (5/L1.03)
2. "L" SHAPED RAISED CURB SITTING ON GRADE, DO NOT REGRADE
3. NEW PLANTING AREA IN EXISTING GRADE, DO NOT REGRADE
4. EXISTING TREE AND ROOTS TO REMAIN PROTECTED IN PLACE, DO NOT RECOMPACT WITHIN TREE PROTECTION ZONE – REFER TO PLAN FOR EXTENT
5. WALL OF BUILDING AND WATERPROOFING, PER ARCHITECT
6. GRAVEL BASE ON EXISTING GRADE
7. MULCH PER PLANS
8. EXISTING GRADE
9. EXISTING SUBGRADE, DO NOT RECOMPACT
10. EXPANSION JOINT

2 SECTION B-B'

1/2" = 1'-0"

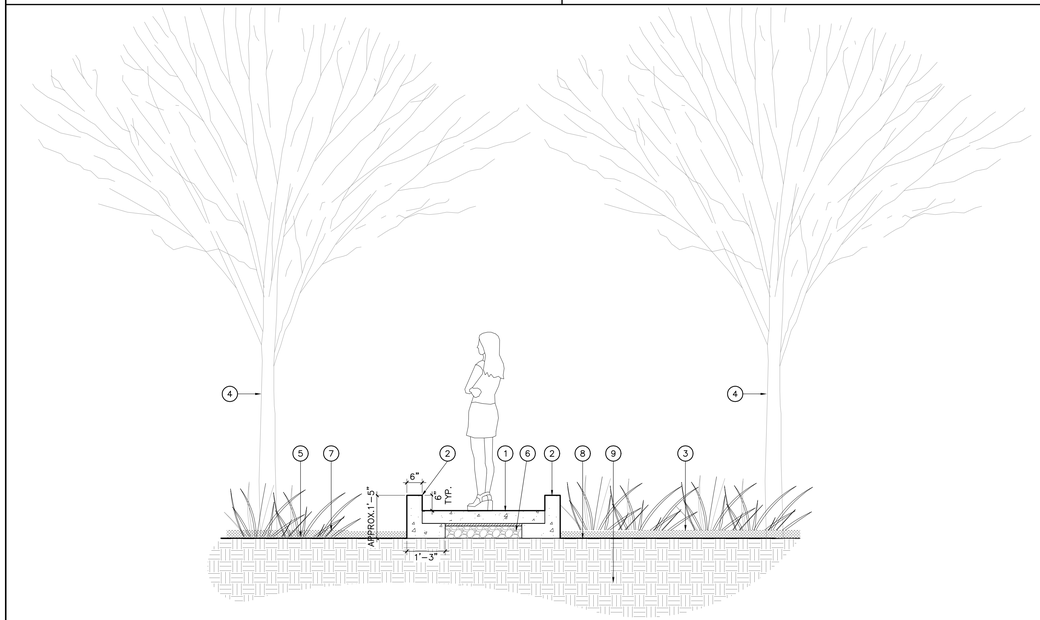


LEGEND

AREA FOR PAVING, EDGING, AND GRAVEL BASE SITTING ON GRADE WITH NO SUBGRADE RECOMPACTION

KEY PLAN

1"=10'-0"

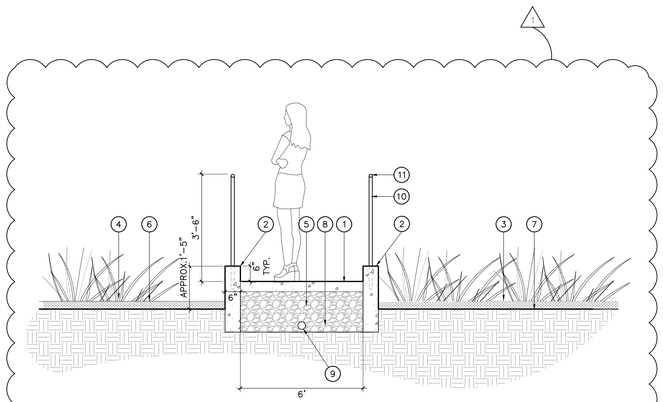


1. POROUS CONCRETE PATH PER (5/L1.03)
2. "L" SHAPED RAISED CURB SITTING ON GRADE
3. NEW PLANTING AREA IN EXISTING GRADE, DO NOT REGRADE
4. EXISTING TREE AND ROOTS TO REMAIN PROTECTED IN PLACE, DO NOT RECOMPACT IN WITHIN TREE PROTECTION ZONE
5. EXISTING PLANTING AREA
6. GRAVEL BASE ON EXISTING GRADE
7. MULCH PER PLANS
8. EXISTING GRADE
9. EXISTING SUBGRADE, DO NOT RECOMPACT

NOTES:
1. INSTALL EXPANSION JOINTS AT CURB TYPE TRANSITIONS, BUILDING FACE, AND AS SHOWN ON PLANS (MAXIMUM 20'-0" O.C.)
2. PROVIDED DOWELS AT ADJACENT POURS PER (2/L1.03)

3 SECTION C-C'

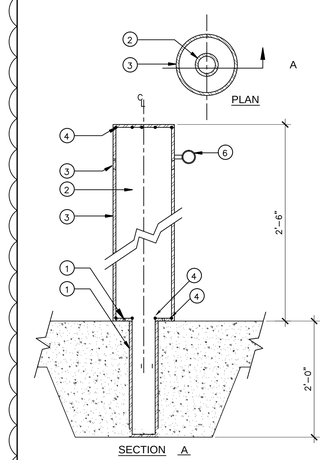
1/2" = 1'-0"



1. POROUS CONCRETE PATH PER (5/L1.03)
2. RAISED CONCRETE CURB (6/L1.03)
3. NEW PLANTING AREA IN EXISTING GRADE, DO NOT REGRADE
4. EXISTING PLANTING AREA
5. FULL DEPTH GRAVEL BASE PER CIVIL
6. MULCH PER PLANS
7. EXISTING GRADE
8. RECOMPACTED SUBGRADE PER GEOTECHNICAL REPORT
9. PERFORATED PIPE PER PLANS AND CIVIL
10. 1-1/4" DIAM. STAINLESS STEEL TUBE COLUMN SPACED 4' O.C. MAX. EMBEDDED IN CONCRETE CURB
11. 1-1/4" DIAM. STAINLESS STEEL TUBE HANDRAIL WELDED TO COLUMN

4 TYP. SECTION, OUTSIDE TREE PROTECTION ZONE

1/2" = 1'-0"



1. GALV. STEEL SLEEVE, BORE HOLE THROUGH CONCRETE PAVING, FOR SLEEVE SIZE TO ACCEPT 3" STEEL PIPE, OPEN BOTTOM TO EARTH FOR DRAINAGE
2. 3" DIA. GALVANIZED STEEL PIPE
3. 8" DIA. TUBE STEEL WITH TOP AND BOTTOM END CAPS, PAINT COLOR T.B.D.
4. TYP. WELD JOINT
5. 1/4" DIA. WEEP HOLE
6. CHAIN HOOK SEE PLANS FOR LOCATIONS

NOTE:
USE THIN WALL TUBE & PLATE FOR TARGET WEIGHT OF 35 POUNDS

TO MATCH EXISTING REMOVEABLE BOLLARD AT SITE

4 REMOVABLE BOLLARD

1/2" = 1'-0"

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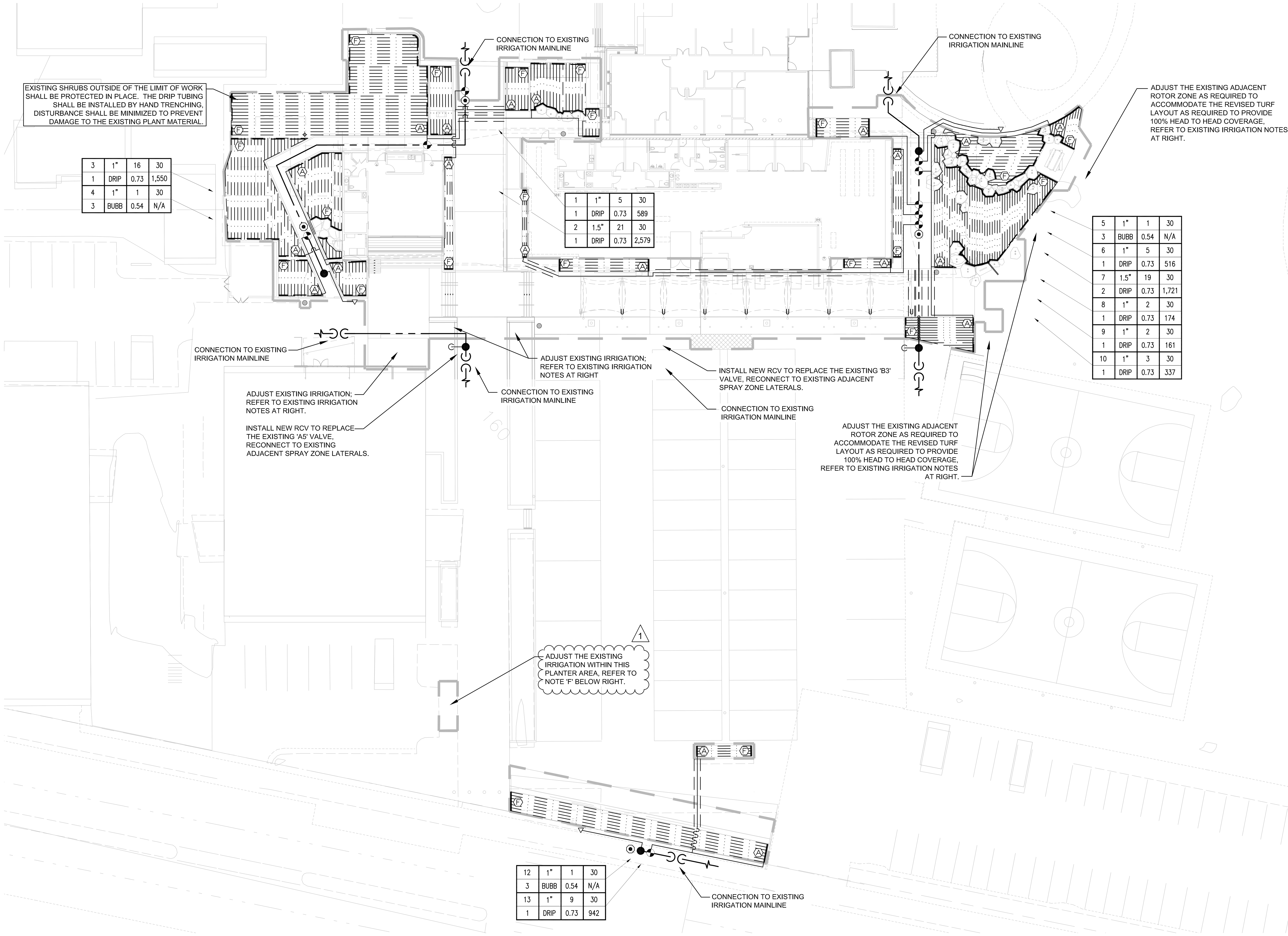
DRAWING NO. **6693**

SHEET TITLE
SECTIONS

SHEET NO.
L1.08

SHEET OF
DWG. NO. :
TITLE OF PROJECT :



EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK AND UPON COMPLETION OF WORK.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO COMMENCING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH. 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXITING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

NOTE 11:
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING BACKFLOW DEVICE AND TESTING FOR PROPER OPERATION. SHOULD BACKFLOW DEVICE BE INOPERABLE OR NOT IN PLACE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID BACKFLOW DEVICE. CONFIRM ANY DISCREPANCIES WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

NOTE 12:
CONTRACTOR SHALL ADD CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.

PROPOSED IRRIGATION NOTES

NOTE A:
POINT OF CONNECTION SHALL BE TO THE EXISTING VIRGINIA AVENUE PARK SITE IRRIGATION SYSTEM. CONTRACTOR SHALL CONNECT TO EXISTING IRRIGATION MAINLINE IN THE APPROXIMATE LOCATIONS SHOWN. CONTRACTOR SHALL ROUTE NEW CONTROL WIRE FROM PROPOSED VALVES BACK TO EXISTING IRRIGATION CONTROLLER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

NOTE B:
MAINLINE AND RELATED IRRIGATION EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT TO BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

NOTE C:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE D:
BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

1

NOTE F:
ADJUST EXISTING IRRIGATION WITHIN THIS PLANTER TO ACCOMMODATE THE PROPOSED IMPROVEMENTS, RELOCATE EQUIPMENT, RE-ROUTE LATERALS, MAINLINE, AND WIRES, PROVIDE SLEEVES AS REQUIRED TO ACCOMMODATE THE PROPOSED IMPROVEMENTS. VERIFY ALL LAYOUT IN THE FIELD AT THE START OF CONSTRUCTION.

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE

DRAWING NO. **6693**

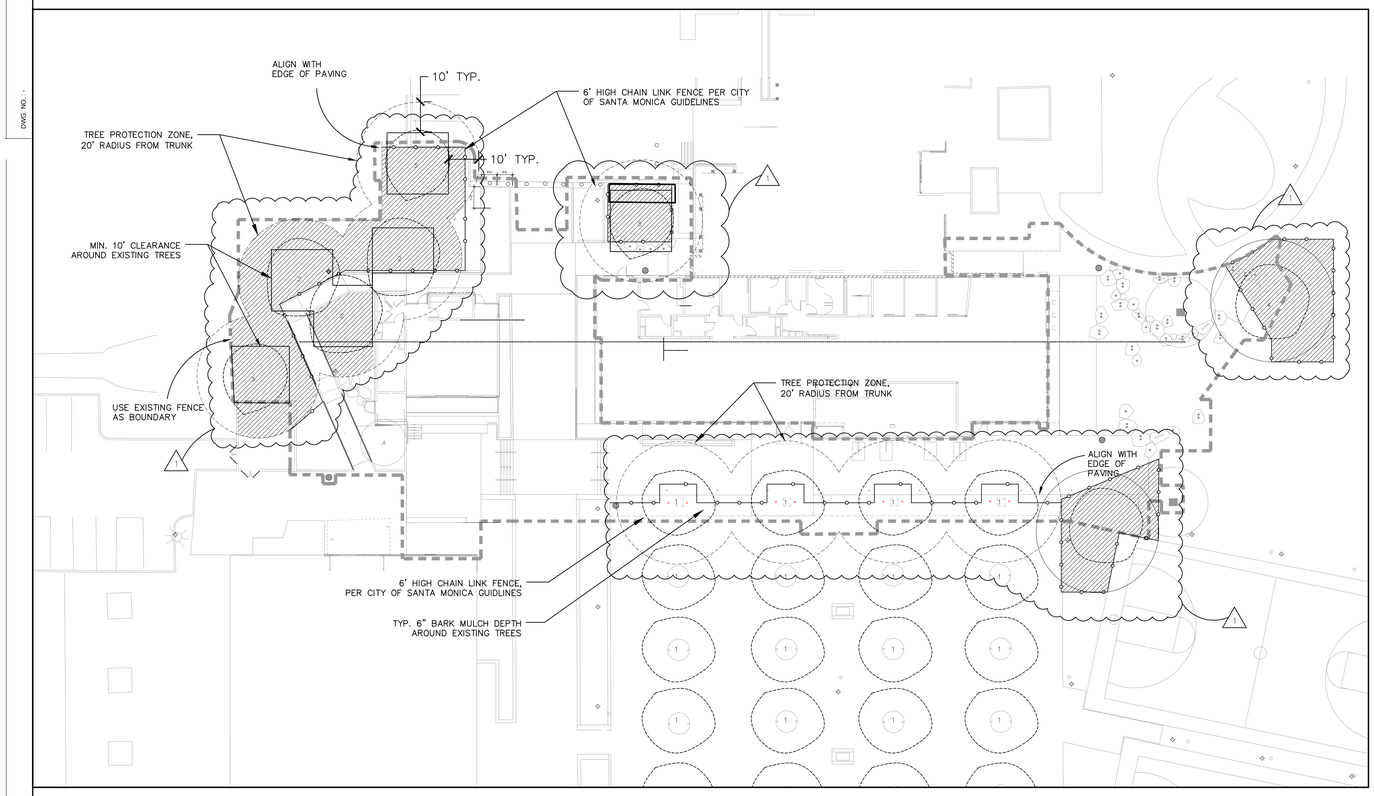
SHEET TITLE
Irrigation Plan

SHEET NO.
L2.01

SHEET OF

DWG. NO. : -

TITLE OF PROJECT :



TREE PROTECTION LEGEND

SYMBOL	DESCRIPTION
1	EXISTING CINNAMOMUM CAMPHORA, TO BE PROTECTED
2	EXISTING PINUS CANARIENSIS, TO BE PROTECTED
3	EXISTING PODOCARPUS GRACILIOR, TO BE PROTECTED
4	EXISTING OTHER TREES, TO BE PROTECTED
10'-0" TYP	MINIMUM 10' CLEARANCE FROM EXISTING TRUNK, TREE PROTECTION ZONE, 10' CLEARANCE FROM EXISTING TREE DRIPLINE. 6" BARK MULCH DEPTH DURING CONSTRUCTION PHASE.
	6' HIGH CHAIN LINK FENCE PER CITY OF SANTA MONICA TREE PROTECTION ZONE GUIDELINES

NOTES:

1 – COORDINATE ALL OFF–SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTER'S OFFICE

2 – NO CONSTRUCTION MATERIAL OR ACTIVITIES ALLOWED IN THE TPZ AREA

3 – PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS

4 – THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL TREE PROTECTION AS REQUIRED BY THE CONSTRUCTION STAGING LOCATION.

5 – SEE CIVIL DRAWING AND LANDSCAPE SPECIFICATIONS FOR TREE PROTECTION FOR ON–SITE PLANT MATERIAL TO BE PROTECTED.

6 – LIMIT OF WORK SHOWN DEFINES ALL ONSITE WORK, AND DOES NOT CONTAIN THE LIMIT OF WORK FOR THE OFFISTE TREE PROTECTION.

STANDARD TREE PROTECTION GUIDELINES – RIGHT–OF–WAY AND DISTRICT–OWNED TREES

TREES WITHIN THE PUBLIC RIGHT–OF–WAY MAY NOT BE REMOVED FOR ANY REASON AND ARE TO BE PROTECTED FROM INJURY OR DAMAGE DURING CONSTRUCTION. TREES WITHIN SCHOOL PROPERTY MAY NOT BE REMOVED UNLESS CLEARLY STATED AS SUCH ON THE DEMOLITION PLAN. PRUNING TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES FOR RIGHT–OF–WAY TREES OR DISTRICT–OWNED TREES SHALL ONLY BE UNDERTAKEN BY COMMUNITY FOREST OPERATIONS STAFF (RIGHT–OF–WAY TREES) OR THE DISTRICT (DISTRICT–OWNED TREES). QUESTIONS REGARDING RIGHT–OF–WAY TREES MAY BE DIRECTED TO THE CITY OF SANTA MONICA'S COMMUNITY FORESTER AT (310) 458–8974 AND DISTRICT–OWNED TREES TO SMMUSD'S CONSULTING ARBORIST AT (626) 355–0271.

THE TYPICAL TREE PROTECTION ZONE (TPZ) SHOULD ENCOMPASS THE CANOPY PLUS AND ADDITIONAL RADIAL WIDTH OF TEN FEET (10'). HOWEVER, SINCE CONDITIONS ARE UNIQUE, THE APPLICATION SHOULD BE EVALUATED WITH THE FINAL LIMITS OF THE TPZ BEING ESTABLISHED BY THE DISTRICT'S CONSULTING ARBORIST.

UNLESS OTHERWISE STATED, MULCH THE ENTIRE AREA OF THE TPZ IN AN EFFORT TO IMPROVE THE GROWING ENVIRONMENT FOR THE ROOTS. DURING THE CONSTRUCTION PHASE MAINTAIN A FOUR TO SIX–INCH LAYER OF CHIP MULCH OVER THE SOIL SURFACE TO REDUCE SOIL COMPACTION, IMPROVE AERATION, ENHANCE MOISTURE RETENTION, AND REDUCE TEMPERATURE EXTREMES. MULCH GENERALLY CONSISTS OF SHREDDED LEAVES OR BARK, PINE STRAW, PEAT MOSS, UNTREATED AND UNPAINTED WOOD CHIPS, OR COMPOSTED GREENWASTE. MULCH SHALL BE REMOVED BY THE CONTRACTOR AFTER PROJECT COMPLETION.

FENCE THE TPZ WITH A SIX FOOT (6') HIGH CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A MINIMUM 8.5"X 11"LAMINATED SIGN STATING: "TREE PROTECTION ZONE – THIS FENCE SHALL NOT BE REMOVED".

THERE IS NO NEED TO SEVER MAJOR ROOTS DURING UTILITY TRENCHING. UTILITY ACCESS CAN BE ACCOMPLISHED BY CAREFUL INCREMENTAL MACHINE EXCAVATION SUPPLEMENTED BY HAND DIGGING WHEN NECESSARY TO PRESERVE SIGNIFICANT ROOTS. IF NECESSARY, STRONG WATER PRESSURE CAN BE USED TO "TUNNEL"BENEATH ROOTS. SEVERAL UTILITIES CAN SOMETIMES USE THE SAME PATHWAYS TO ELIMINATE NEEDLESS SOIL DISRUPTION. EXACT PLACEMENT OF UTILITIES MUST BE MARKED AND COORDINATED WITH INDIVIDUAL CONTRACTORS SO THAT THEY DO NOT JUST CHOOSE THE SHORTEST AND EASIEST ROUTES.

SHOULD IT BE NECESSARY TO TRENCH WITHIN THE TPZ, ALL TRENCHES SHALL BE HAND–DUG. NO ROOTS LARGER THAN TWO INCHES (2") IN DIAMETER SHALL BE CUT UNLESS NO OTHER ALTERNATIVE IS FEASIBLE. IF ROOTS EXCEEDING TWO INCHES IN DIAMETER ARE REQUIRED TO BE CUT, THE CONTRACTOR SHALL CALL THE DISTRICT'S CONSULTING ARBORIST BEFORE PROCEEDING.

ROOTS SMALLER THAN TWO INCHES IN DIAMETER THAT REQUIRE PRUNING SHALL BE CUT WITH PRUNING SAWS. CUTS SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH, AND MADE AT 90–DEGREE ANGLES TO EXPOSE THE LEAST AMOUNT OF SURFACE AREA AS POSSIBLE. IF AT ANY TIME TWENTY–FIVE PERCENT (25%) OF THE AREA WITHIN THE TPZ IS BEING SEPARATED FROM THE TREE BY A TRENCH, THEN THE LINE SHALL BE EITHER RELOCATED OR INSTALLED BY BORING.

REMOVAL OF HARDSCAPE AND/OR EXCAVATION WITHIN THE TPZ SHALL BE COORDINATED WITH THE DISTRICT'S CONSULTING ARBORIST. EQUIPMENT MAY BE USED TO BREAK UP HARDSCAPE, BUT ONCE IT IS REMOVED ONLY FOOT TRAFFIC IS PERMITTED UNDER THE TPZ. THIS PROCESS IS TYPICALLY ACCOMPLISHED BY PLACING THE EQUIPMENT ON THE HARDSCAPE AND BACKING UP AS THE HARDSCAPE IS REMOVED.

THE MINIMUM DISTANCE BETWEEN AN OPEN TRENCH AND ANY TREE SHALL BE BETWEEN SIX INCHES (6") TO ONE FOOT (1') FOR EVERY INCH OF TRUNK DIAMETER, MEASURED AT FOUR AND ONE–HALF FEET (4.5') ABOVE EXISTING GRADE, DEPENDING ON THE SPECIES OF TREE. THE MINIMUM CLEARANCE SHALL BE TEN FEET (10') FROM THE TRUNK OF THE TREE.

IN THE EVENT ROOT PRUNING IS REQUIRED TO ACCOMMODATE GRADE CHANGES OR THE INSTALLATION OF HARDSCAPE FEATURES, THE ROOT PRUNING PROCEDURES SHALL BE DIRECTED BY COMMUNITY FOREST ER (RIGHT–OF–WAY TREES) OR THE DISTRICT'S CONSULTING ARBORIST (DISTRICT–OWNED TREES).

AT NO TIME SHALL ANY EQUIPMENT, MATERIALS, SUPPLIES, OR FILL SOIL BE ALLOWED IN THE TPZ UNLESS NECESSARY AND APPROVED BY EITHER CITY OF SANTA MONICA'S COMMUNITY FORESTER OR DISTRICT'S CONSULTING ARBORIST.

PRUNE AND FERTILIZE THE TREES AFTER THE COMPLETION OF ALL EXTERIOR WORK ON THE BUILDING AND AT THE BEGINNING OF THE LANDSCAPE PHASE AS DIRECTED BY THE COMMUNITY FORESTER OR DISTRICT'S CONSULTING ARBORIST.

PRIOR TO THE COMMENCEMENT OF THE PROJECT, PLEASE CONTACT THE DISTRICT'S CONSULTING ARBORIST AT (626) 355–0271 TO DETERMINE THE PRECISE LOCATION OF THE TPZ.

20' 10' 0' 20'
15' 5'
N

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

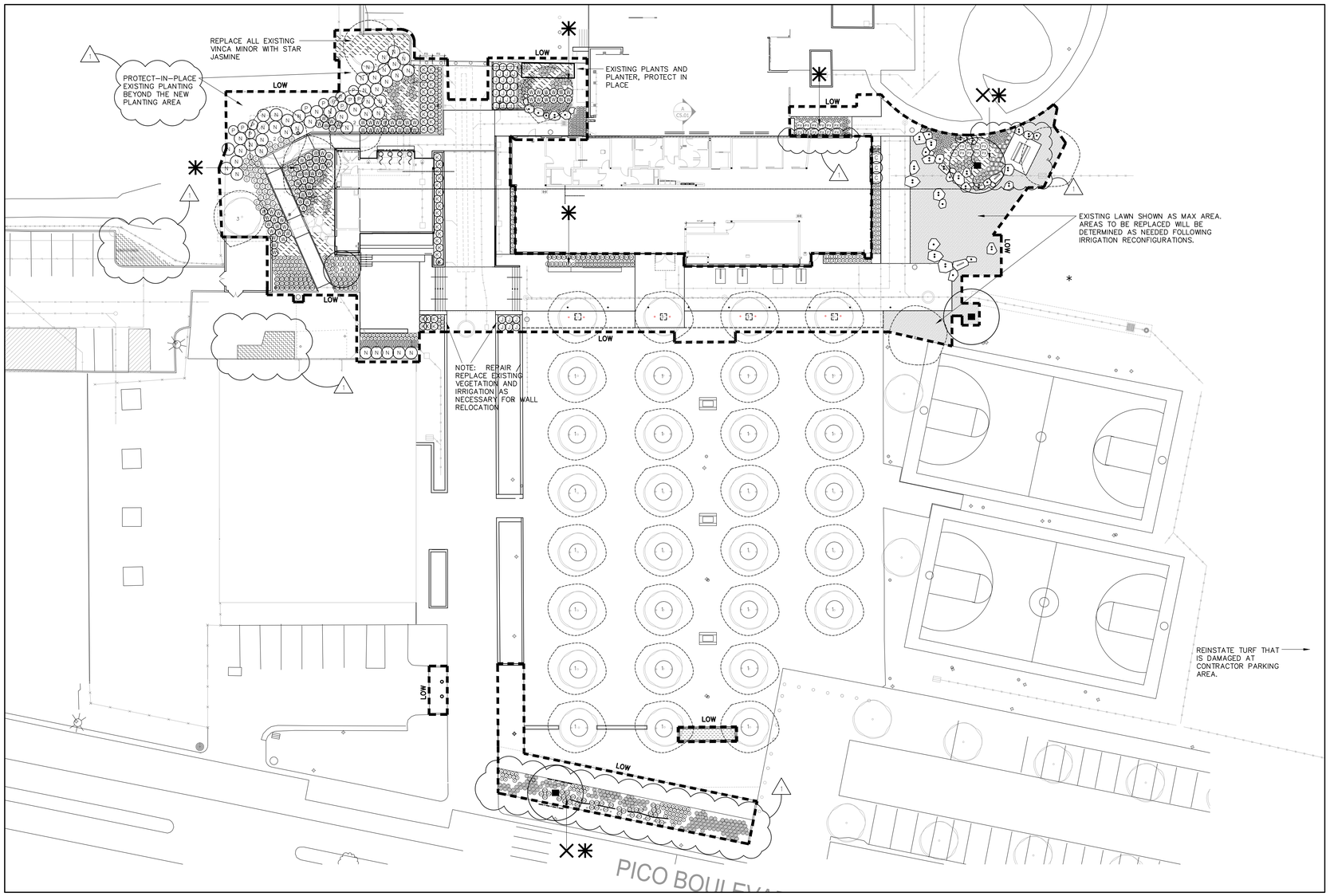
DATE

DRAWING NO. **6693**

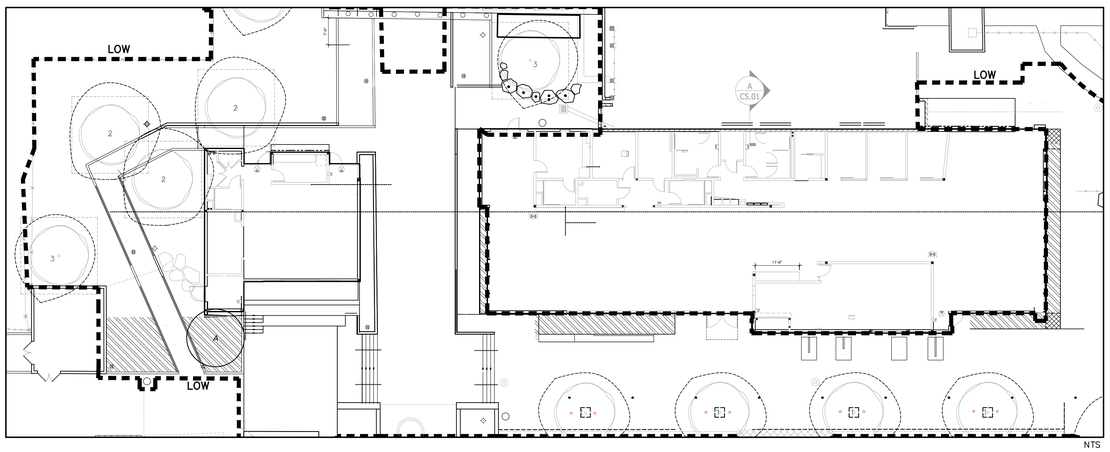
SHEET TITLE
Tree Protection Plan

SHEET NO.
L3.00

SHEET OF
DWG. NO. :
TITLE OF PROJECT :

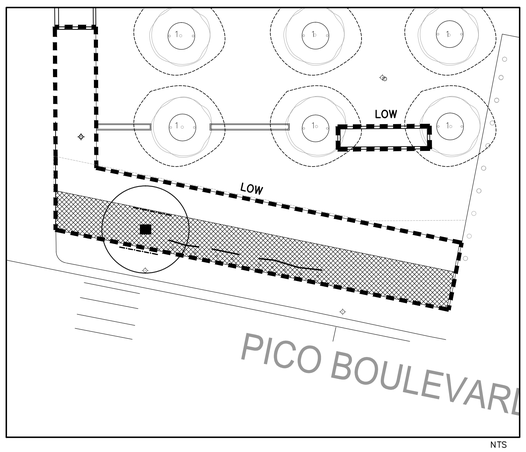


GRAVEL MULCH AREA 1



NTS

GRAVEL MULCH AREA 2



NTS

PLANT LEGEND

SYMBOL	TREES	COMMON NAME
1	EXISTING CINNAMOMUM CAMPHORA	CAMPHOR TREE
2	EXISTING PINUS CANARIENSIS	CANARY ISLAND PINE
3	EXISTING PODOCARPUS GRACILIOR	FERN PINE
4	EXISTING OTHER TREES	
	METROSIDEROS EXCELSUS	NEW ZEALAND CHRISTMAS TREE

SYMBOL	SHRUBS	COMMON NAME
P	ACALYPHA WILKESIANA	COPPER PLANT
A	ALOE THRAKSII	COASTAL TREE ALOE
C	DRACAENA MARGINATA	RED EDGED DRACAENA
N	PHILODENDRON SELLOUM	SPLIT-LEAF PHILODENDRON
Fn	PHILODENDRON X 'XANADU'	XANADU DWARF PHILODENDRON

SYMBOL	PERENNIAL, GRASSES, AND GROUNCOVERS	COMMON NAME
Ac	AEONIUM 'ALICE KECK PARK'	NCN
	ANIGOZANTHOS FLAVIDUS 'YELLOW GEM'	YELLOW KANGAROO PAW
	CANNA X GENERALIS 'BLACK KNIGHT'	CANNA LILY
Cl	CLIVIA MINIATA 'MONYA'	CLIVIA
	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS
	LIRIOPE GIGANTEA	GIANT LILYTURF
	NEPHROLEPIS EXALTATA	SWORD FERN
	PHORMIUM COOKIANUM 'EMERALD GEM'	DWARF GREEN NEW ZEALAND FLAX
	PHORMIUM COOKIANUM 'JESTER'	FIESTA NEW ZEALAND FLAX
Pt	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY FLAX
	MISCANTHUS TRANSMORRISONENSIS	EVERGREEN SILVER GRASS
	SANSEVIERIA TRIFASCIATA 'LAURENTII'	VARIEGATED SNAKE PLANT
	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE
Wf	WOODWARDIA FIMBRIATA	GIANT CHAIN FERN

SYMBOL	OTHER	
	LONICERA JAPONICA 'HALLIANA'	HALL'S HONEYSUCKLE
	CYNODON DACTYLON 'TIFWAY 2'	REPLACE AS NECESSARY FOLLOWING IRRIGATION RECONFIGURATION
	FARMER'S MARKET GARDEN	TO BE PLANTED AND MAINTAINED BY THE FARMER'S MARKET
	REPAIR EXISTING PLANTING + IRRIGATION TO MATCH EXISTING	AT DISTRBED AREAS
	LIMIT OF WORK	
	ROOT BARRIER	
	PERCOLATION TEST	
	SOIL TEST	

NOTE: PLANTING ON TOP OF EXISTING ROOT BALL SHALL BE DONE BY HAND AND WITHOUT DAMAGING THE TREE ROOTS

MULCH LEGEND

SYMBOL	DESCRIPTION		
NOTE:	3" LAYER BARK MULCH AT ALL PLANTING AREAS UNLESS NOTED OTHERWISE	GORILLA HAIR REDWOOD BARK MULCH	
	2" LAYER OF 1" CRUSHED AGGREGATE	SOUTHWEST BOULDER (800) 523-9992	SOUTHWEST BROWN
	3" LAYER OF 2-4" CRUSHED AGGREGATE	SOUTHWEST BOULDER (800) 523-9992	SOUTHWEST BROWN

20' 10' 0' 20'
15' 5'
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REVISIONS

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DRAWING NO. **6693**

SHEET TITLE
Planting Plan

SHEET NO.
L3.01

SHEET OF

DWG. NO. :

TITLE OF PROJECT :

NOTES

GENERAL REQUIREMENTS

1. IF THE MOISTURE CONTENT OF THE SOIL SHOULD REACH SUCH A LEVEL THAT WORKING IT WOULD DESTROY SOIL STRUCTURE, SPREADING AND GRADING OPERATIONS SHALL BE SUSPENDED UNTIL, IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THE MOISTURE CONTENT IS INCREASED OR REDUCED TO ACCEPTABLE LEVELS AND THE DESIRED RESULTS ARE LIKELY TO BE OBTAINED.

2. ACTUAL PLANTING SHALL BE PERFORMED DURING THOSE PERIODS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED HORTICULTURAL PRACTICE AS APPROVED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ONLY INSTALL AS MANY PLANTS PER DAY AS CAN BE PLANTED AND WATERED ON THAT SAME DAY.

3. ALL SCALED DIMENSIONS ARE APPROXIMATE. BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SHALL IMMEDIATELY INFORM THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS.

4. ANY PLANT MATERIAL QUANTITIES THAT MAY BE SHOWN ARE FOR CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY COUNT AND PROVIDE NUMBER TO FULFILL WHAT IS SHOWN ON THE PLANTING PLANS - PRIOR TO ORDERING FROM NURSERIES.

5. PROTECTION OF EXISTING TREES, SHRUBS, AND GROUNDCOVER:

a. ALL PLANTING TO REMAIN SHALL BE PROTECTED AT ALL TIMES FROM DAMAGE BY WORKERS AND EQUIPMENT. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND ROOTS AND SHALL FOLLOW PROJECT SPECIFICATIONS - ONLY ALLOWED AFTER RECEIPT OF WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
b. DAMAGE TO A TREE OR SHRUB, WHICH RESULTS IN DEATH OR PERMANENT DISFIGURATION, SHALL RESULT IN THE CONTRACTOR'S COMPLETE REMOVAL OF SAID TREE OR SHRUB, INCLUDING ROOTS, FROM THE SITE. THE CONTRACTOR SHALL REPLACE THE TREE OR SHRUB AS ESTABLISHED BY THE PROJECT SPECIFICATIONS.
c. ALL PLANTS TO REMAIN ON-SITE WILL BE IRRIGATED BY THE CONTRACTOR DURING THE ENTIRE CONSTRUCTION CONTRACT.

6. AT THE COMPLETION OF ALL PLANTING OPERATIONS, THE PREMISES ARE TO BE LEFT NEAT AND CLEAN. ALL SURPLUS MATERIALS, NURSERY TAGS AND WASTE ARE TO BE REMOVED FROM THE SITE.

DEEP WATER LEACHING

1. FILL IN ALL DEPRESSIONS, VOIDS, EROSION SCARS, OR SETTLED TRENCHES GENERATED BY THE DEEP LEACHING WITH CONDITIONED SOIL, LEAVING A FINAL FINISH GRADE SMOOTH AND EVEN.

FINAL GRADES

1. MINOR MODIFICATIONS TO GRADE MAY BE REQUIRED TO ESTABLISH THE FINAL GRADES.

2. SEE PROJECT SPECIFICATIONS FOR SOIL PREPARATION DEPTHS AND METHODS.

3. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT AND AVOID DAMAGE TO SPRINKLER HEADS, IRRIGATION LINES, AND OTHER UNDERGROUND UTILITIES DURING GRADING AND CONDITIONING OPERATIONS.

4. CONTRACTOR SHALL COORDINATE ALL DRAINAGE WORK WITH ALL OTHER TRADES. ESTABLISHED SITE DRAINAGE SHALL BE MAINTAINED BY CONTRACTOR DURING ALL PHASES OF LANDSCAPE CONSTRUCTION.

5. FINAL FINISH GRADES SHALL INSURE POSITIVE DRAINAGE OF THE SITE WITH ALL SURFACE DRAINAGE AWAY FROM BUILDINGS, WALLS AND TOWARD DRAINS AND CATCH BASINS.

6. FINAL GRADES SHALL BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE BEFORE PLANTING OPERATIONS WILL BE ALLOWED TO BEGIN.

7. ROUGH GRADING OTHER THAN THAT NOTED ON THE LANDSCAPE DRAWINGS IS BY THE GENERAL CONTRACTOR. FINISH GRADING IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

8. FINISH GRADING WILL CONSIST OF RAKING ALL AREAS TO A SMOOTH GRADE ROTO-TILLING THE SOIL TO A DEPTH OF 6" AND REMOVING ALL ROCKS OR CLODS OF 2" DIAMETER OR LARGER (TURF AREA). REMOVAL OF MINOR AMOUNTS OF CONSTRUCTION WASTE IS INCLUDED.

9. FINISH GRADE IS TO BE 2" BELOW TOP OF ADJACENT FLASHING AND PAVING.

PERCOLATION TESTING AND DRAINAGE

1. A MINIMUM OF FIVE (5) SOILS PERCOLATION TESTS SHALL BE PERFORMED BY FILLING 24" OR 36" BOX TREE PLANTING PITS (SEE PLANS FOR APPROPRIATE SIZE OF TREE PIT) WITH WATER, WAITING 12 HOURS AND THEN COMPLETELY REFILLING. IF ALL THE WATER IS NOT ABSORBED WITHIN 12 HOURS OF THE SECOND FILLING IT HAS FAILED THE TEST. UPON FAILURE, CONTACT OWNER'S REPRESENTATIVE FOR REMEDIAL MEASURES.

2. BID PRICE SHALL BE BASED ON STANDARD TREE PLANTING PIT DETAILS SHOWN ON THE PLANS.

WEED CONTROL

1. THE LANDSCAPE CONTRACTOR IS TO REMOVE ALL WEEDS AND OR UNWANTED GRASSES (INCLUDING THE ROOTS) EXISTING IN THE LANDSCAPE AREAS. ALL LANDSCAPE AREAS AREA TO RECEIVE THE PRE-EMERGENT HERBICIDE SURFLAN PER MANUFACTURER'S INSTRUCTIONS. APPLICATION OF THE HERBICIDE SHALL BE DONE BY PERSONNEL LICENSED TO HANDLE AGRICULTURAL CHEMICALS.

2. PRIOR TO PLANTING, ERADICATE WEEDS WITHIN THE LIMITS OF WORK USING PRODUCTS APPROVED BY OPEN SPACE DIVISION THAT HAVE A "CAUTION" RATING AND NOT HIGHER.

3. TAKE CARE TO PROTECT EXISTING PLANT MATERIAL WHICH IS TO REMAIN AS SHOWN ON THE PLANS.

SOIL CONDITIONING AND FERTILIZING

1. PLANTER SOIL FOR RAISED PLANTER (S) SHALL BE IMPORTED TOP SOIL PER SPECIFICATIONS. ADD PRE-PLANT FERTILIZER TO PLANTER SOIL MIX AND AT THE RATE OF 40 LBS. PER CUBIC YARD. RAISED PLANTING AREAS ARE DEFINED AS PLANTED AREAS THAT ARE BOUNDED BY CURBS OR WALLS 12" HIGHER THAN ADJACENT FINISH GRADE.

2. ALL LANDSCAPE AREAS ARE TO RECEIVE AN EVEN APPLICATION OF 4 CUBIC YARDS OF NITROHUMUS, 30 POUNDS OF 6.20.20 FERTILIZER, 50 POUNDS OF TRI-C HUMATE PLUS AND 10 POUNDS OF SOIL SULFUR FOR EACH 1000 SQUARE FEET. THE ABOVE AMENDMENTS ARE TO BE INCORPORATED UNIFORMLY INTO THE TOP 6" OF SOIL. AGRIFORM 21 GRAM PLANT TABLET INSTALLED IN ALL PLANTING PITS. REFER TO DETAILS FOR AMOUNTS.

GENERAL PLANTING

1. PRUNING SHALL NOT BE DONE EXCEPT BY APPROVAL OF OWNER'S REPRESENTATIVE.

2. PLANT LOCATIONS SHALL BE CHECKED FOR POSSIBLE INTERFERENCE WITH EXISTING UNDERGROUND PIPING, PRIOR TO EXCAVATION OF HOLES. IF UNDERGROUND CONSTRUCTION OR UTILITY LINES ARE ENCOUNTERED IN THE EXCAVATION OF PLANTING AREAS, NOTIFY THE OWNER. EXPENSES FOR REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. MINIMUM TREE SEPARATION DISTANCES ARE AS FOLLOWS:

a. TRAFFIC SIGNALS (STOP SIGNS) - 20 FEET
b. UNDERGROUND UTILITY LINES - 5 FEET
c. ABOVE GROUND UTILITY STRUCTURES - 10 FEET
d. DRIVEWAY (ENTRIES) - 10 FEET
e. INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

3. ALL EXCAVATED HOLES SHALL HAVE VERTICAL SIDES WITH ROUGHENED SURFACES AND SHALL BE OF THE MINIMUM SIZES INDICATED ON DRAWINGS AND IN THE PROJECT SPECIFICATIONS. HOLES SHALL BE, IN ALL CASES, LARGE ENOUGH TO PERMIT HANDLING AND PLANTING WITHOUT INJURY OR BREAKAGE OF ROOT BALLS OR ROOTS.

4. PRIOR TO PLANTING & BACKFILLING ALL PLANTERS ON DECK, CONTRACTOR TO PERFORM A 24-HOUR TEST OF WATERPROOFING MATERIAL BY SEALING ALL DRAINS & FILLING PLANTERS WITH WATER FOR A MINIMUM OF 24 HOURS. DRAINS TO BE UNSEALED AT END OF TEST TO ALLOW FOR WATER FLOW VERIFICATION. LEAKING TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

PLANT AVAILABILITY

1. THE ACT OF PROVIDING A BID FOR THIS PROJECT ESTABLISHES THE CONTRACTOR'S UNDERSTANDING THAT THE PLANTS SPECIFIED HEREIN MAY BE UNUSUAL AND MORE DIFFICULT TO LOCATE THAN THE INDUSTRY STANDARD AND THAT THE CONTRACTOR AGREES TO THE FOLLOWING:

a. THE CONTRACTOR SHALL SEARCH FOR EACH PLANT SPECIFIED. LISTED BELOW ARE PLANT NURSERY SOURCES TO BE CONTACTED DURING CONTRACTOR'S SEARCH. IF ANY OF THE LISTED NURSERIES OR ANY NURSERIES IN CALIFORNIA OR ARIZONA HAVE THE SPECIFIED PLANTS IN THE CONTAINER SIZES SPECIFIED, THE CONTRACTOR SHALL BE OBLIGATED TO PURCHASE AND OBTAIN DELIVERY OF SAID PLANTS.

b. WITHIN TWENTY-ONE (21) DAYS AFTER AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT A PLANT LIST WITH NURSERY SOURCES, PLANT QUANTITIES AND PLANT SIZES; PLANT LIST SHALL INDICATE ALL UNAVAILABLE PLANTS AND WHICH NURSERIES WERE CONTACTED DURING CONTRACTOR'S SEARCH. (LANDSCAPE ARCHITECT SHALL SUGGEST PLANT SUBSTITUTION BASED UPON INFORMATION IN CONTRACTOR SUBMITTAL.)

c. UPON ACCEPTANCE OF CONTRACTOR PLANT SUBMITTAL BY LANDSCAPE ARCHITECT, CONTRACTOR SHALL SECURE PLANTS WITHIN FIVE (5) DAYS AND ARRANGE FOR DELIVERY FROM NURSERIES.

TREES, SHRUBS, AND VINES

1. EACH TREE AND SHRUB SHALL BE PLACED IN THE CENTER OF THE HOLE AND SHALL BE SET PLUMB AND HELD RIGIDLY IN POSITION UNTIL THE PLANTING BACKFILL HAS BEEN TAMPED DOWN AROUND EACH ROOTBALL.

2. ALL PLANTS SHALL BE SET AT SUCH A LEVEL THAT AFTER SETTLING THEY BEAR THE SAME RELATIONSHIP TO THE SURROUNDING FINISH GRADE AS THEY BORE TO THE SOIL LINE GRADE IN THE CONTAINER AND ROOTS ARE FULLY COVERED WITH SOIL AND FIRMED, UNLESS OTHERWISE NOTED.

3. ALL PLANTS ARE TO HAVE A PLANTING PIT TWO TIMES THE DIAMETER OF THE ROOTBALL AND 6" BELOW ITS DEPTH. THE PLANT PIT IS TO BE BACKFILLED (AFTER POSITIONING OF PLANT) WITH THE FOLLOWING PER YARD BLEND: PLANTERS @ GRADE: 50% - SITE SOIL; 50% - KELLOGG 'SOIL AMEND'.

4. ALL PLANTS SHALL BE THOROUGHLY WATERED INTO THE FULL DEPTH OF EACH PLANTING HOLE IMMEDIATELY AFTER PLANTING.

5. TREES LARGER THAN 24" BOX SHALL BE SPOTTED AND PLANTED WITH A CRANE. ALL 24" AND 36" BOX TREES SHALL BE STAKED PER DETAILS EXCEPT PALMS.

6. ROOT BARRIERS: "ROOT BOOSTER" ROOT CONTROL BARRIERS SHALL BE INSTALLED WHERE TURF MEETS SHRUB/GROUNDCOVER PLANTINGS; ROOT BARRIER SHALL BE LOCATED ON LAWN SIDE OF HEADER/MOW CURB. DEPTH AND MODEL/PRODUCT NUMBER PER SPECIFICATIONS.

7. MULCH ALL SHRUB AND GROUND COVER AREAS WITH A 2" LAYER WOOD BARK MULCH. KEEP MULCH 6" AWAY FROM PLANT TRUNK.

PLANTING SOD TURF

1. SEE SPECIFICATIONS FOR LAWN AREA SOIL PREPARATION AND SOD INSTALLATION. LAWN SOIL PREPARATION SHALL BE AS DESCRIBED IN SPECIFICATIONS, EXCEPT DEPTH SHALL BE 12'; AMENDMENTS SHALL BE ROTOTILLED INTO THE TOP 6". IN AREAS OF EXISTING TREE ROOTS LARGER THAT 2", TAKE CARE TO NOT SEVER ROOTS - USING HAND TOOLS WHERE REQUIRED. GAIN APPROVAL IN WRITING FROM OWNER REPRESENTATIVE FOR ACCESS AND WORK WITHIN TREE PROTECTION AREAS.

2. SOD IS TO BE FRSEHLY CUT OVERSEEDED 'MEDALLION' FROM PACIFIC SOD AND PLACED IN SECTIONS NOT SMALLER THAN ONE SQUARE FOOT. STAGGER THE JOINTS BETWEEN ROLLS. SIFT SOIL (USE SOIL WASTE THAT HAS FALLEN OFF SOD) INTO ALL JOINTS TO FILL ANY VOIDS CREATED.

3. ROLL SOD WITH LIGHTLY WEIGHTED ROLLER AFTER COMPLETION OF ALL SODDING OPERATIONS.

MAINTENANCE PERIOD

1. LANDSCAPE AREAS SHALL BE KEPT FREE OF WEEDS, NOXIOUS GRASS, TRASH AND ALL OTHER UNDESIRED VEGETATIVE GROWTH AND DEBRIS.

2. PLANT MATERIALS SHALL BE KEPT IN A HEALTHY, OPTIMUM GROWING CONDITION AND IN A VISUALLY PLEASING APPEARANCE BY WATERING, PRUNING, MOWING, FERTILIZING, RESTAKING, PEST AND DISEASE CONTROLLING, SPRAYING, WEEDING, CLEAN-UP AND ANY MAINTENANCE OPERATION NECESSARY TO INSURE A HEALTHY, VIGOROUS STAND OF PLANTS AT THE TIME OF FINAL INSPECTION.

3. SEE SPECIFICATIONS FOR APPLICATION OF THE POST PLANTING FERTILIZER AT THE RATE SPECIFIED.

4. CONTRACTOR IS RESPONSIBLE FOR THE LANDSCAPE MAINTENANCE FOR ALL PLANTED AND/OR IRRIGATED AREAS SHOWN ON THE PLANS FOR THE INITIAL MAINTENANCE PERIOD (SEE PROJECT SPECIFICATIONS FOR MAINTENANCE PERIOD.)

5. MAINTENANCE IS TO INCLUDE CONTROL AND TREATMENT OF ALL PLANT DISEASE AND PLANT PESTS ENCOUNTERED DURING THIS PERIOD. APPLICATION OF CHEMICALS IS TO BE PERFORMED BY A LICENSED CHEMICAL APPLICATOR.

6.THE SPRINKLER SYSTEM IS TO BE CHECKED FOR COVERAGE AT EACH WATERING. MALFUNCTIONS, SUCH AS DIRTY HEADS, CLOGGED EMITTERS, ADJUSTMENT OF HEADS, ETC. ARE TO BE CORRECTED ON THE SPOT. MORE SERIOUS DEFECTS ARE TO BE REPORTED IMMEDIATELY TO THE OWNER FOR CORRECTION BY THE SPRINKLER CONTRACTOR OR CORRECTED IMMEDIATELY BY THE LANDSCAPE CONTRACTOR IF CONTRACT INCLUDED SPRINKLER INSTALLATION.

LANDSCAPE DECLARATIONS

1. LANDSCAPE PLANS, WHEN SUBMITTED, SHALL COMPLY WITH SMMC 9.04.08.02.070(I)

2. FOR OPEN-TRENCHED AND FINAL INSPECTIONS, CALL BUILDING AND SAFETY AT 310.458.8355

3. PARKWAY PERMITS MUST BE OBTAINED FROM AND APPROVED BY THE PUBLIC WORKS DEPARTMENT

4. PRIOR TO CONSTRUCTION OF LANDSCAPED AREA OR IRRIGATION, THE CONTRACTOR MUST OBTAIN AND REVIEW A COPY OF THE WATER-EFFICIENT LANDSCAPE AND IRRIGATION STANDARDS

5. ALL LANDSCAPING AND IRRIGATION SYSTEMS MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS

GUARANTEE

1. ALL PLANT MATERIAL (OTHER THAN FLATTED MATERIAL) LESS THAN 24" BOX SIZE SHALL BE GUARANTEED FOR A PERIOD OF 3 MONTHS. ALL PALMS & 24" BOX MATERIAL AND LARGER MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR. GUARANTEE PERIOD COMMENCES FROM THE TIME OF FINAL INSPECTION AND ACCEPTANCE BY THE OWNER. PLANTS USED FOR REPLACEMENT SHALL BE THE SAME KIND AND SIZE AS ORIGINALLY PLANTED. THEY ARE TO BE PLANTED FOLLOWING THE ORIGINAL PLANS AND SPECIFICATIONS.

SOILS ANALYSIS

A SOILS ANALYSIS REPORT IS TO BE PROVIDED BY THE CONTRACTOR PRIOR TO LANDSCAPE INSTALLATION. APPLICABLE AMENDMENTS WILL BE DETERMINED FOLLOWING THE LANDSCAPE ARCHITECT'S FULL REVIEW OF THE SOIL ANALYSIS REPORT.

PLANT LEGEND

SYMBOL	TREES	COMMON NAME	CONTAINER SIZE	MATURE SIZE	QUANTITY
1	EXISTING CINNAMOMUM CAMPHORA	CAMPHOR TREE	–	–	
2	EXISTING PINUS CANARIENSIS	CANARY ISLAND PINE	–	–	
3	EXISTING PODOCARPUS GRACILIOR	FERN PINE	–	–	
4	EXISTING OTHER TREES		–	–	
■	METROSIDEROS EXCELSUS	NEW ZEALAND CHRISTMAS TREE	60" BOX	30'H X 30'W	3

SYMBOL	SHRUBS	COMMON NAME	CONTAINER SIZE	O.C. SPACING	MATURE SIZE	QUANTITY	PAVING OFFSET	WATER NEEDS	EXPOSURE
P	ACALYPHA WILKESIANA	COPPER PLANT	15 GAL.	4' O.C.	10'H X 6'W	12	2'	MEDIUM	LIGHT SHADE
A	ALOE THRAKSII	COASTAL TREE ALOE	48" BOX	AS SHOWN	STANDARD FORM 14–16'H X 6–8'W	1	3'	LOW	FULL SUN
C	DRACAENA MARGINATA	RED EDGED DRACAENA	24" BOX		6–8'H X 6–8'W	3	3'	LOW	SUN/PART SHADE
N	PHILODENDRON SELLOUM	SPLIT–LEAF PHILODENDRON	5 GAL	5' O.C.	6–10'H X 6–8'W	45	3'	MEDIUM	COOL SUN/PART SHADE
PX	PHILODENDRON X 'XANADU'	XANADU DWARF PHILODENDRON	5 GAL	3' O.C.	3' H X 3' W	22	2'	MEDIUM	COOL SUN/PART SHADE

SYMBOL	PERENNIAL, GRASSES, AND GROUNCOVERS	COMMON NAME	CONTAINER SIZE	O.C. SPACING	MATURE SIZE	QUANTITY	PAVING OFFSET	WATER NEEDS	EXPOSURE
AN	AEONIUM 'ALICE KECK PARK'	NCN	1 GAL.	2'–6" O.C.	1–2'H X 2–3'W	96	1' 6"	LOW	SUN/PART SHADE
⊛	ANIGOZANTHOS FLAVIDUS 'YELLOW GEM'	YELLOW KANGAROO PAW	5 GAL.	18" O.C.	3'H X 3'W	153	1' 6"	LOW	SUN
⊖	CANNA X GENERALIS 'BLACK KNIGHT'	CANNA LILY	1 GAL.	4' O.C.	4–6'H X 3–4'W	44	2'	MEDIUM	SUN
⊙	CLIVIA MINIATA 'MONYA'	CLIVIA	1 GAL.	2'–4" O.C.	2–3'H X 2–3'W	52	1'	MEDIUM	LIGHT SHADE
◎	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	1 GAL.		1–2'H X 2'W	20	1'	MEDIUM	SUN/PART SHADE
⊛	LIRIOPE GIGANTEA	GIANT LILYTURF	5 GAL.	18" O.C.	2–3'H X 2–3'W	163	1' 6"	MEDIUM	COOL SUN/PART SHADE
⊙	NEPHROLEPIS EXALTATA	SWORD FERN	1 GAL.	18" O.C.	3–4'H X 2'W	158	1'	MEDIUM	COOL SUN/PART SHADE
⊙	PHORMIUM COOKIANUM 'EMERALD GEM'	DWARF GREEN NEW ZEALAND FLAX	5 GAL.	2' O.C.	1–2'H X 2–3'W	31	2'	LOW	FULL SUN/PART SHADE
⊙	PHORMIUM COOKIANUM 'JESTER'	FIESTA NEW ZEALAND FLAX	5 GAL.	1'–6" O.C.	1–2'H X 1–2'W	199	1' 6"	LOW	SUN/PART SHADE
PX	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY FLAX	5 GAL.	3' O.C.	3'H X 3'W	40	1' 6"	LOW	SUN/PART SHADE
⊙	MISCANTHUS TRANSMORRISONENSIS	EVERGREEN SILVER GRASS	5 GAL.	3' O.C.	2–3'H X 3–4'W	27	2'	MEDIUM	SUN OR SHADE
⊙	SANSEVERIA TRIFASCIATA 'LAURENTII'	VARIEGATED SNAKE PLANT	1 GAL.	2' O.C.	3–4'H X 2–3'W	50	1'	LOW	LIGHT SHADE
	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GAL	2'–6" O.C.	1–2'H X 18–20'W	185	2'	MEDIUM	SUN/PART SHADE
W	WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	5 GAL	3' O.C.	4–5'H X 3'W	77	2'	MEDIUM	LIGHT SHADE

SYMBOL	OTHER							
	LONICERA JAPONICA 'HALLIANA'	HALL'S HONEYSUCKLE	5 GAL	AS SHOWN	6–10'H	4	LOW	SUN OR SHADE
	CYNODON DACTYLON 'TIFWAY 2'	REPLACE AS NECESSARY FOLLOWING IRRIGATION RECONFIGURATION				2,200 SF		HIGH SUN
	FARMER'S MARKET GARDEN	TO BE PLANTED AND MAINTAINED BY THE FARMER'S MARKET				159 SF		
	REPAIR EXISTING PLANTING + IRRIGATION TO MATCH EXISTING	AT DISTRBED AREAS						
	LIMIT OF WORK							
	ROOT BARRIER							
	PERCOLATION TEST							
	SOIL TEST							

GENERAL PROJECT CALCULATIONS

	AREA IN SQ FT
PROJECT PARCEL SIZE	
TOTAL BUILDING FOOTPRINTS	
TOTAL EXISTING HARDSCAPE AREA	
TOTAL EXISTING LANDSCAPE AREA	
TOTAL PROPOSED HARDSCAPE AREA	10,436
TOTAL PROPOSED LANDSCAPE AREA	10,143

HYDROZONE MATRIX

1 ZONE	2 SQ FOOT	3 % OF TOTAL LS AREA	4 PLANT TYPE	5 PLANTING FORM	6 PRIMARY HYDROZONE BASIS	7 HYDROZONE DESCRIPTION	8 HYDROZONE EXPOSURE	9 IRRIGATION METHOD	10 IRRIGATION DEVICE MFG/MODEL/#	11 DEVICE FLOW RATE	12 CALCULATED PRECIP RATE	13 ZONE GPM	14 ZONE	15 CONTROLLER PRESSURE STATION
A	3,735	31	T	SE, SO	PL	TURF		GD						
B	8,179	69	M, L	1G, 5G, 15G, 24", 48"	PL	MIXED SHRUB		GD						

PLANT TYPE
WUCOLS
CODE RATING
T TURF
H HIGH
M MEDIUM
LVL LOW, VERY LOW
O OTHER

PLANTING FORM
SE SEED
SO SOD
F FLAT
P PLUG
1G 1 GALLON
5G 5 GALLON
15G 15 GALLON
24" 24" BOX
48" 48" BOX

HYDROZONE BASIS
PL PLANT TYPE

HZ EXPOSURE
1 SUN ALL DAY
2 SUN MOST OF THE DAY
3 SHADE MOST OF THE DAY
4 SHADE ALL DAY

IRRIGATION METHOD
RD RANDOM DRIP
GD GRID DRIP
LD LINEAR DRIP

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SPURLOCK POIRIER
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619.681.0090
619.681.0096 fax

LICENSED LANDSCAPE ARCHITECT
ANDREW SPURLOCK 1983
Signature
07/31/12
Renewal Date
Date
STATE OF CALIFORNIA

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SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE

DRAWING NO. **6693**

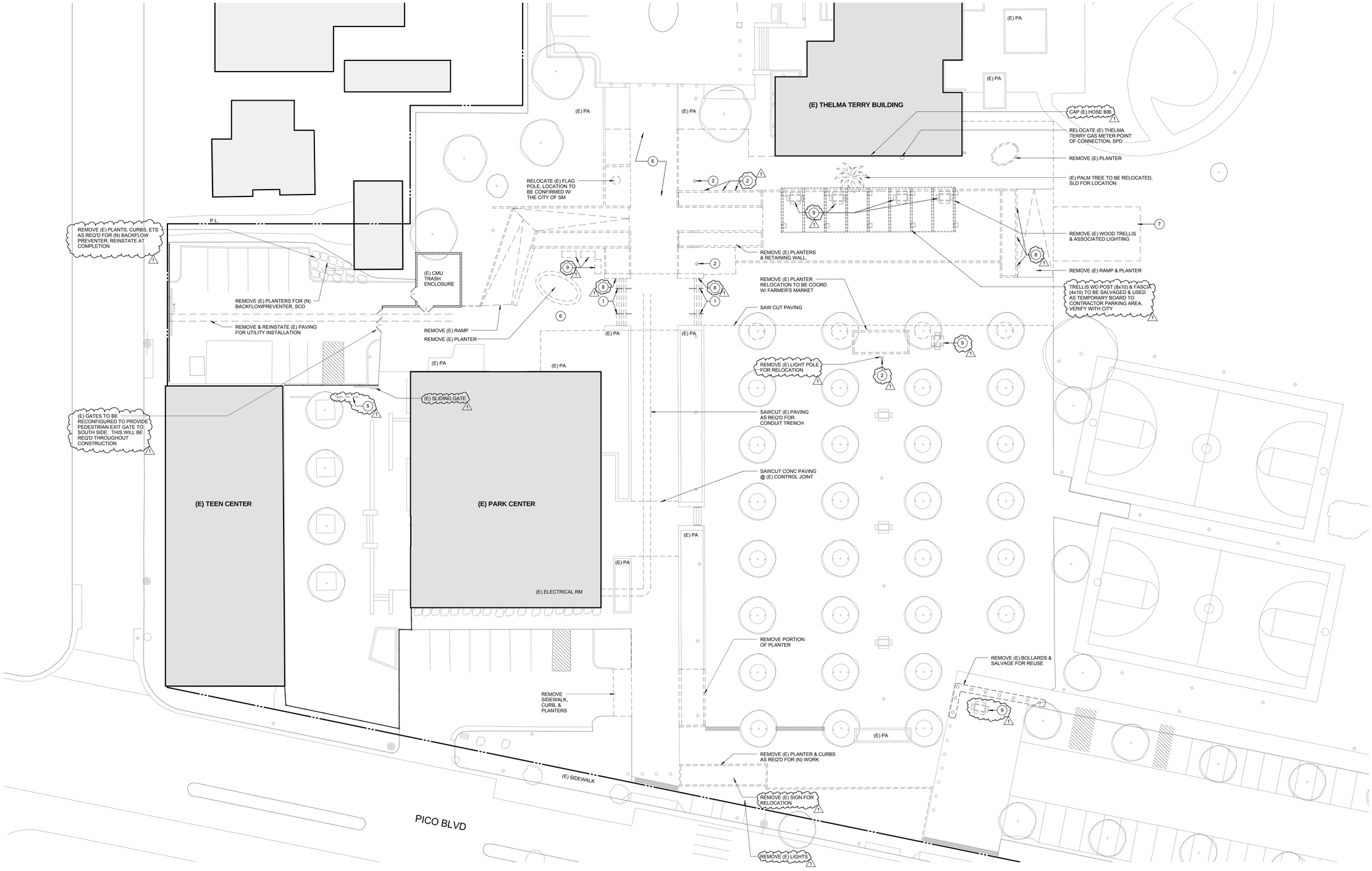
SHEET TITLE
Planting Legend

SHEET NO.
L3.02

SHEET OF

DWG. NO. :

TITLE OF PROJECT :



SITE DEMOLITION PLAN

0 4' 8' 16' | 1/16" = 1'-0" | 1

SITE DEMOLITION LEGEND

- - - - - - DEMOLITION

SITE DEMOLITION PLAN NOTES

1. PAVING DEMOLITION IS PROVIDED AS A GUIDE ONLY & DOES NOT NECESSARILY COVER ALL UTILITY TRENCHING. CONTRACTOR TO VERIFY FULL EXTENT OF UTILITY TRENCHING REQ'D.
2. SEE CIVIL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. ALL (E) WALL LIGHTS TO BE REMOVED AND SALVAGED FOR RE-USE UNLESS DIRECTED OTHERWISE BY OWNER.

SITE DEMOLITION PLAN KEYNOTES

1. SALVAGE HANDRAILS FOR REINSTALLATION
2. REMOVE (E) LIGHT POLE (SALVAGE AND/ OR RELOCATE)
3. (E) TREE TO REMAIN
4. (E) HANDRAILS TO REMAIN
5. REMOVE (E) BIKE RACK
6. DEMOLISH (E) PAVING AS REQ'D
7. NOT IN USE
8. SALVAGE LIGHTS FOR REUSE/ OWNER STOCK
9. (E) CONC TABLE & CHAIRS TO BE REMOVED

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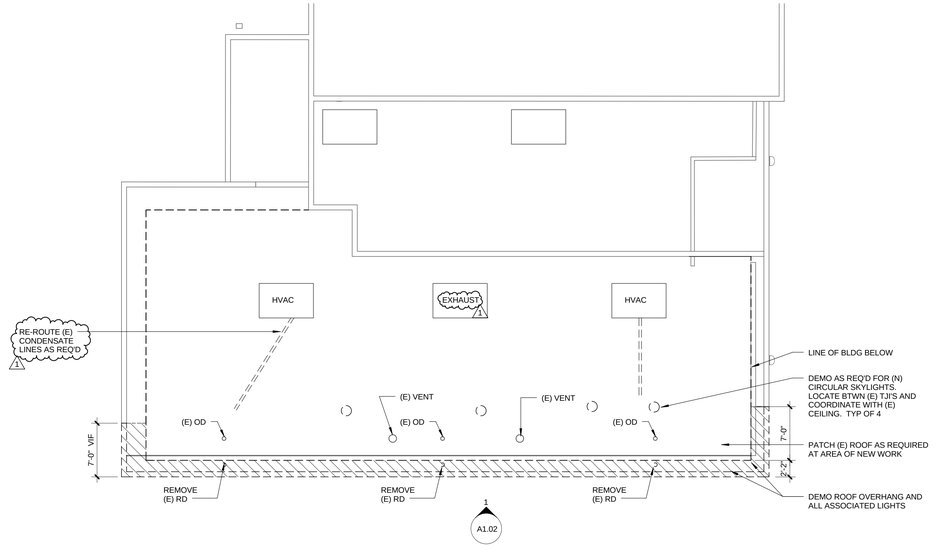
6693

SHEET TITLE
SITE DEMOLTION PLAN

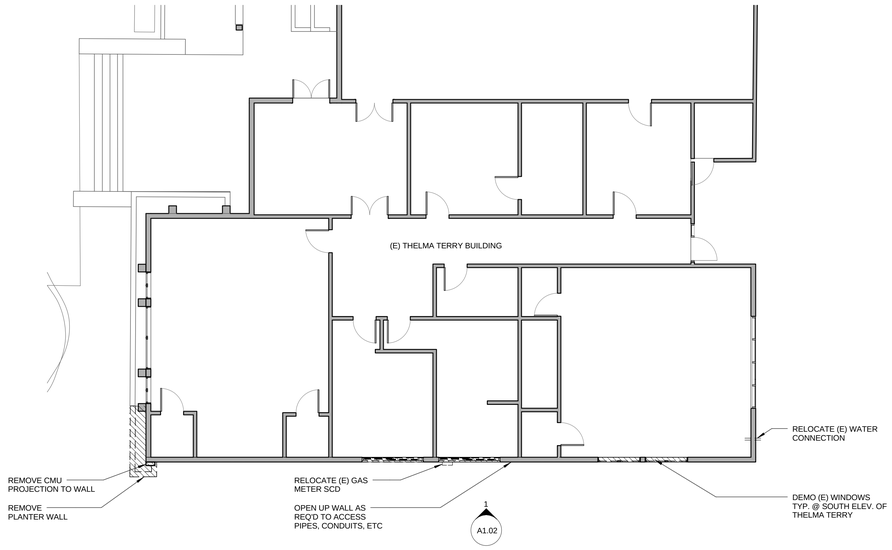
SHEET NO.
A1.01

SHEET OF
DWG NO. -
TITLE OF PROJECT



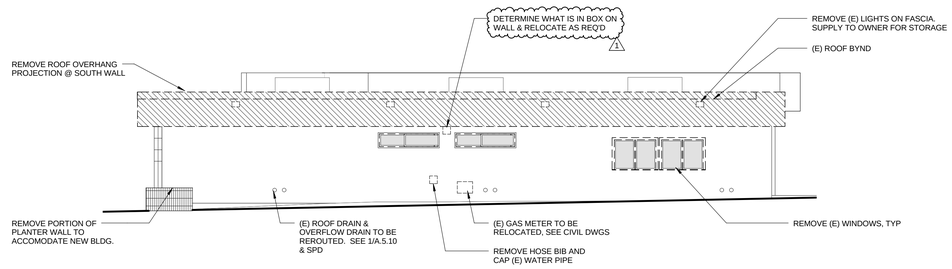
THELMA TERRY DEMOLTION ROOF PLAN

0 2' 4' 8' | 1/8" = 1'-0" | 3



THELMA TERRY DEMOLITION FLOOR PLAN

0 2' 4' 8' | 1/8" = 1'-0" | 2



THELMA TERRY DEMOLTION @ SOUTH ELEVATION

0 2' 4' 8' | 1/8" = 1'-0" | 1

LEGEND

(E) DEMOLITION

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DRAWING NO. **6693**

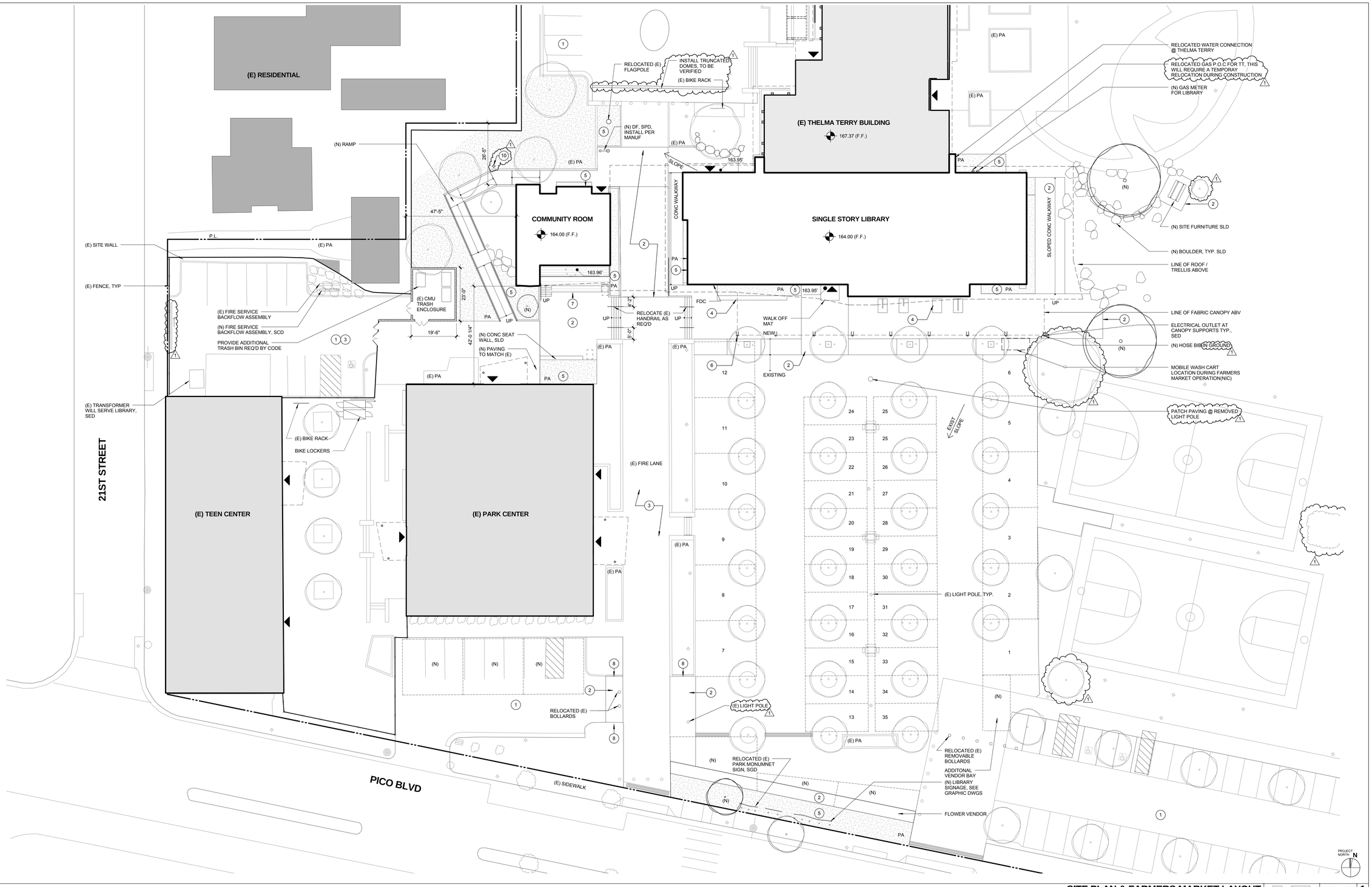
SHEET TITLE
THELMA TERRY DEMOLITION PLANS & ELEVATIONS

SHEET NO.
A1.02

SHEET OF

DWG. NO. -

TITLE OF PROJECT



SITE PLAN & FARMERS MARKET LAYOUT

0 4' 8' 16' | 1/16" = 1'-0" | 1

FARMERS MARKET STALLS				
TYPE	EXISTING QTY	PROPOSED QTY	CHANGE	DURING CONSTRUCTION
COFFEE STALL UNDER CANOPY	0	1	1	0
FLOWER BAYS @ SOUTH	2	3	+1	0
HOT FOOD STALLS @ NE	3	0	-3	0
LARGE BAYS	13	13	0	13
SMALL BAYS	26	27	+1	27
TEMPORARY BAYS WEST OF FIRE LANE	0	0	0	3 (CAN BE 4 STALLS)
TOTALS	44	44	0	43

SEE SHEET A1.04 FOR FARMERS MARKET LAYOUT DURING CONSTRUCTION

SITE PLAN LEGEND

- (N) TREE
- (E) TREE
- (N) LIGHT POLE
- (E) LIGHT POLE
- BUILDING ENTRY
- (N) LANDSCAPE / PLANTING SLD

SITE PLAN GENERAL NOTES

1. SEE CIVIL DWGS FOR GRADING & UTILITIES
2. SEE LANDSCAPE DWGS FOR PLANTING TYPES & CONC PAVING SPECIFICATION
3. THIS PLAN INDICATES THE FARMERS MARKET STALLS UPON COMPLETION.

SITE PLAN KEYNOTES

1. (E) PARKING LOT
2. (N) CONC PAVING, SEE LANDSCAPE DWGS
3. PATCH (E) HARDSCAPE AS REQ'D FOR (N) WORK
4. (N) SITE FURNISHINGS, SEE LANDSCPAE DWGS
5. (N) PLANTED AREA, SEE LANDSCAPE DWGS
6. PTD STL CANOPY SUPPORTS WITH CUSTOM BIKE RACK, SEE 2/A3.00 F0R CANOPY ELEVATION
7. PRE-CAST CONC PLANKS AT "AMPHITHEATER"
8. (N) CURB TO MATCH EXISTING
9. (N) PAVING TO MATCH EXISTING
10. RELOCATED POLE LIGHT, SED

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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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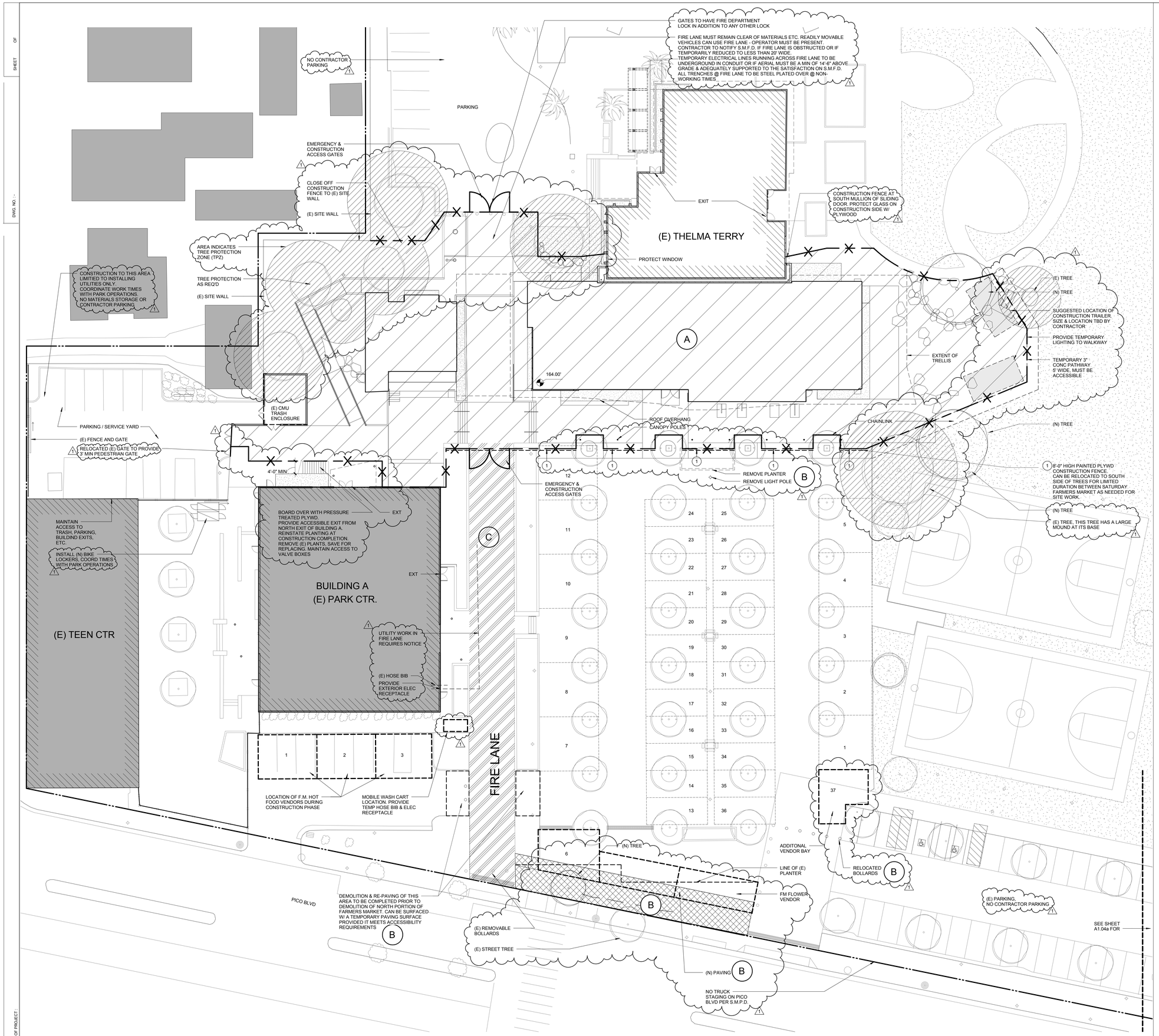
SHEET TITLE
SITE PLAN

SHEET NO.
A1.03

SHEET OF

DWG NO. - -

TITLE OF PROJECT



STAGING PLAN 0 4' 8' 16' 1/16" = 1'-0" 1

STAGING LEGEND

- A — FULL PERIOD CONSTRUCTION SITE
- B — SHORT TERM CONSTRUCTION AREA - WORK TO BE SUBSTANTIALLY COMPLETED PRIOR TO NORTH CONSTRUCTION GOING UP
- C — CONSTRUCTION AREA - OUTSIDE OF FARMERS' MARKET OPERATION HOURS ONLY(MON-FRI)
- TREE PROTECTION ZONE - PROTECTION REQ'D AT EXISTING TREES DURING CONSTRUCTION. SEE LANDSCAPE DRAWINGS
- CONSTRUCTION BARRICADE MIN 8' HIGH CHAINLINK W/ FABRIC COVER
- TEMPORARY LOCATION OF FARMERS MARKET STALLS
- TPZ (TREE PROTECTION ZONE)

STAGING NOTES

1. FARMERS MARKET AREA WILL BE USED FOR "FARMERS' MARKET ON A WEEKLY BASIS (SATURDAY MORNINGS). WORK IN FM AREA TO BE UNDERTAKEN OUTSIDE OF FM HOURS. AREA TO BE REINSTATED FOR FM USE. CONSTRUCTION ACTIVITIES MUST NOT INTERFERE WITH THE FARMERS MARKET OPERATION EXCEPT AS NOTED OR WITH PRIOR APPROVAL OR THE FARMERS MARKET MANAGER LAURA AVERY.
2. THELMA TERRY, BUILDING A (PARK CENTER) TEEN CENTER, AND THE PARK WILL BE IN CONTINUOUS USE DURING CONSTRUCTION.
3. THIS PLAN INDICATES FARMERS MARKET ARRANGEMENT DURING CONSTRUCTION.
4. ACCES FROM EITHER PICO OR VIRGINIA AVE. MUST REMAIN OPEN AT ALL TIMES (PER S.M.F.D.)
5. CITY WILL PROVIDE ANY FESTIVAL DATES THAT WILL IMPACT THE CONSTRUCTION SCHEDULE.
6. PROVIDE A WEEKLY NOTIFICATION OF CONSTRUCTION ACTIVITY @ THE FIRE LANE AS REQ'D BY S.M.F.D.

FARMERS MARKET

1. FARMERS MARKET STALLS ARE INDICATED FOR REFERENCE ONLY.
2. PRIOR TO ERECTING ANY FENCE/ BARRICADE THAT ENCROACHES INTO THE FARMERS MARKET NORTH END, SUBSTANTIALLY COMPLETE WORK NECESSARY TO ALLOW THE NEW VENDOR BAYS TO BE OCCUPIED FOR FM USE.

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ARCHITECT'S PROJECT NO.
1001

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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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DEPARTMENT OF PUBLIC WORKS

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NO.	DATE	BY	DESCRIPTION

REVISIONS

ISSUE

PLAN CHECK SUBMISSION

DATE
02/21/2012

DRAWING NO. **6693**

SHEET OF SHEETS

SHEET TITLE
STAGING PLAN

SHEET NO.
A1.04

SHEET OF

DWG NO. -

TITLE OF PROJECT:

SHEET OF

DWG. NO. -

(E) TREE

(N) TREE

SUGGESTED LOCATION OF CONSTRUCTION TRAILER. SIZE & LOCATION TBD BY CONTRACTOR

PROVIDE TEMPORARY LIGHTING TO WALKWAY

TEMPORARY 3' CONC PATHWAY 5' WIDE, MUST BE ACCESSIBLE

LOT ACCESS POINT

CONTRACTOR PARKING AREA

-NO STORAGE OF MATERIALS IN THIS AREA.
-THIS AREA NEEDS TO BE CLEAR & AVAILABLE FOR FARMERS MARKET USE ON SATURDAY MORNING.
-(E) LOT LAWN WILL NEED TO BE RESTORED POST CONSTRUCTION.
-NO FENCING OF THIS AREA PERMITTED.

TURF AREA OFF LIMITS FOR VEHICLES & STORAGE

-NO FENCING OF THIS AREA PERMITTED.
-CONTRACTOR TO REVIEW SAFETY REQUIREMENTS WITH CITY & PROVIDE VEHICLE DETERRENTS AS REQUIRED.

NO PARKING PERMITED IN (E) LOT

SEE SHEET A1.04 FOR

CLOVERFIELD

PICO BLVD

PROJECT NORTH N

STAGING LEGEND

A — FULL PERIOD CONSTRUCTION SITE

B — SHORT TERM CONSTRUCTION AREA - WORK TO BE SUBSTANTIALLY COMPLETED PRIOR TO NORTH CONSTRUCTION GOING UP

C — CONSTRUCTION AREA - OUTSIDE OF FARMERS' MARKET OPERATION HOURS ONLY(MON-FRI)

TREE PROTECTION ZONE - PROTECTION REQ'D AT EXISTING TREES DURING CONSTRUCTION, SEE LANDSCAPE DRAWINGS

CONSTRUCTION BARRICADE. MIN 6' HIGH CHAINLINK W/ FABRIC COVER

TEMPORARY LOCATION OF FARMERS MARKET STALLS

TPZ (TREE PROTECTION ZONE)

STAGING NOTES

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DRAWING NO. **6693**

SHEET OF SHEETS

SHEET TITLE
STAGING PLAN

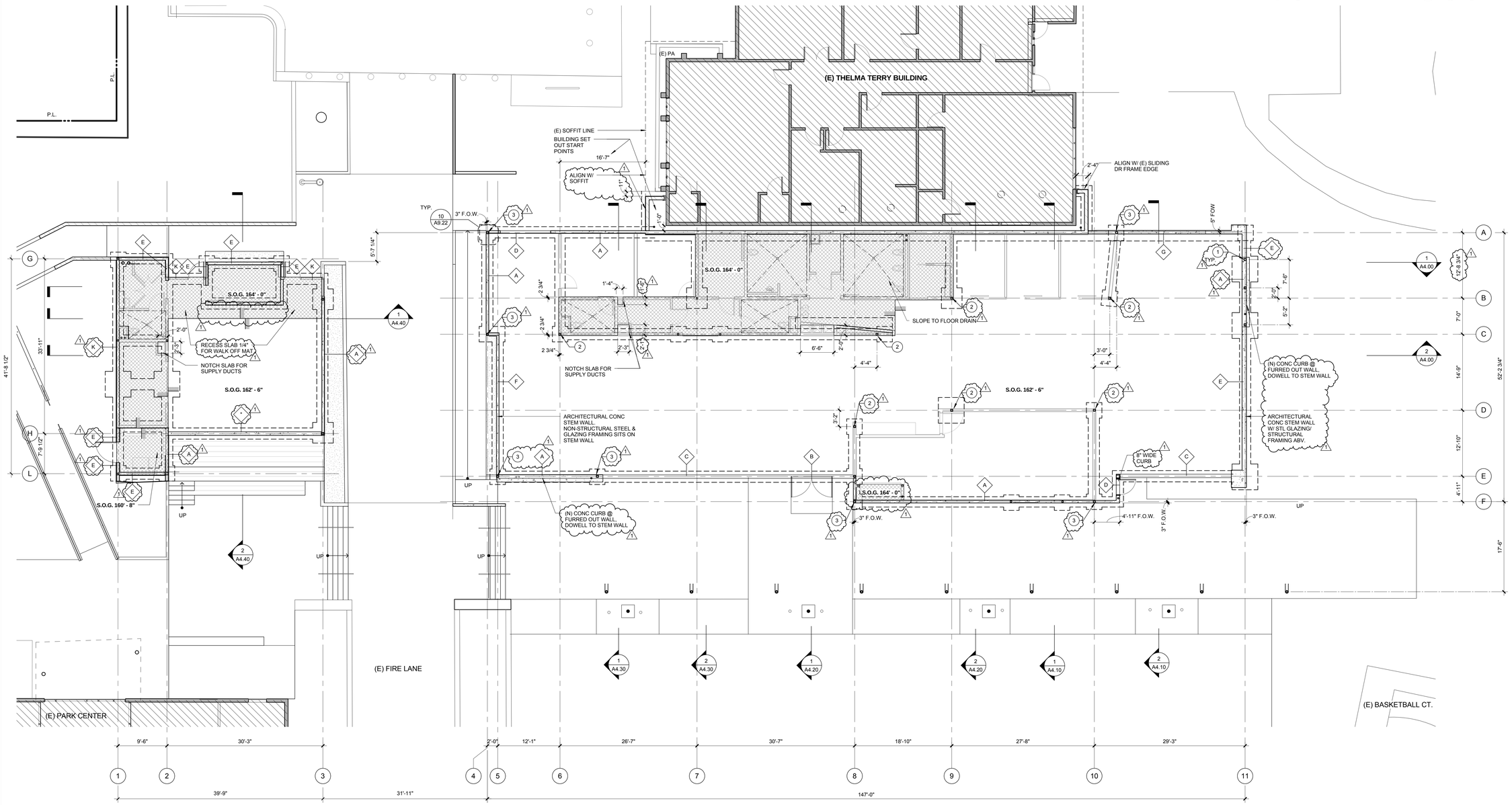
SHEET NO. **A1.04a**

TITLE OF PROJECT

STAGING PLAN 0 4' 8' 16' 1/16" = 1'-0" 1

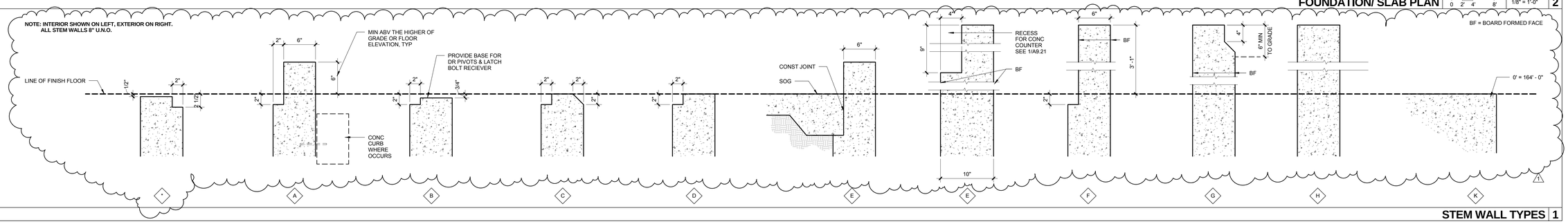
FOUNDATION PLAN KEY NOTES

1. ONLY STEEL COLUMNS ARE SHOWN. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL WOOD POSTS & HOLD DOWNS & SILL ANCHOR BOLT REQUIREMNTS.
2. STEEL COLUMN EXTENDS TO TOP OF FOOTING
3. STEEL COLUMN EXTENDS TO TOP OF FOOTING WITH 1/2" x 24" STEEL PLATE TO EXTERIOR SIDE WITH REBAR WELDING TO EACH SIDE OF COLUMN, SEE STRUCTURAL DRAWINGS.



FOUNDATION/ SLAB PLAN

0 2' 4' 8' 1/8" = 1'-0" | 2



STEM WALL TYPES | 1

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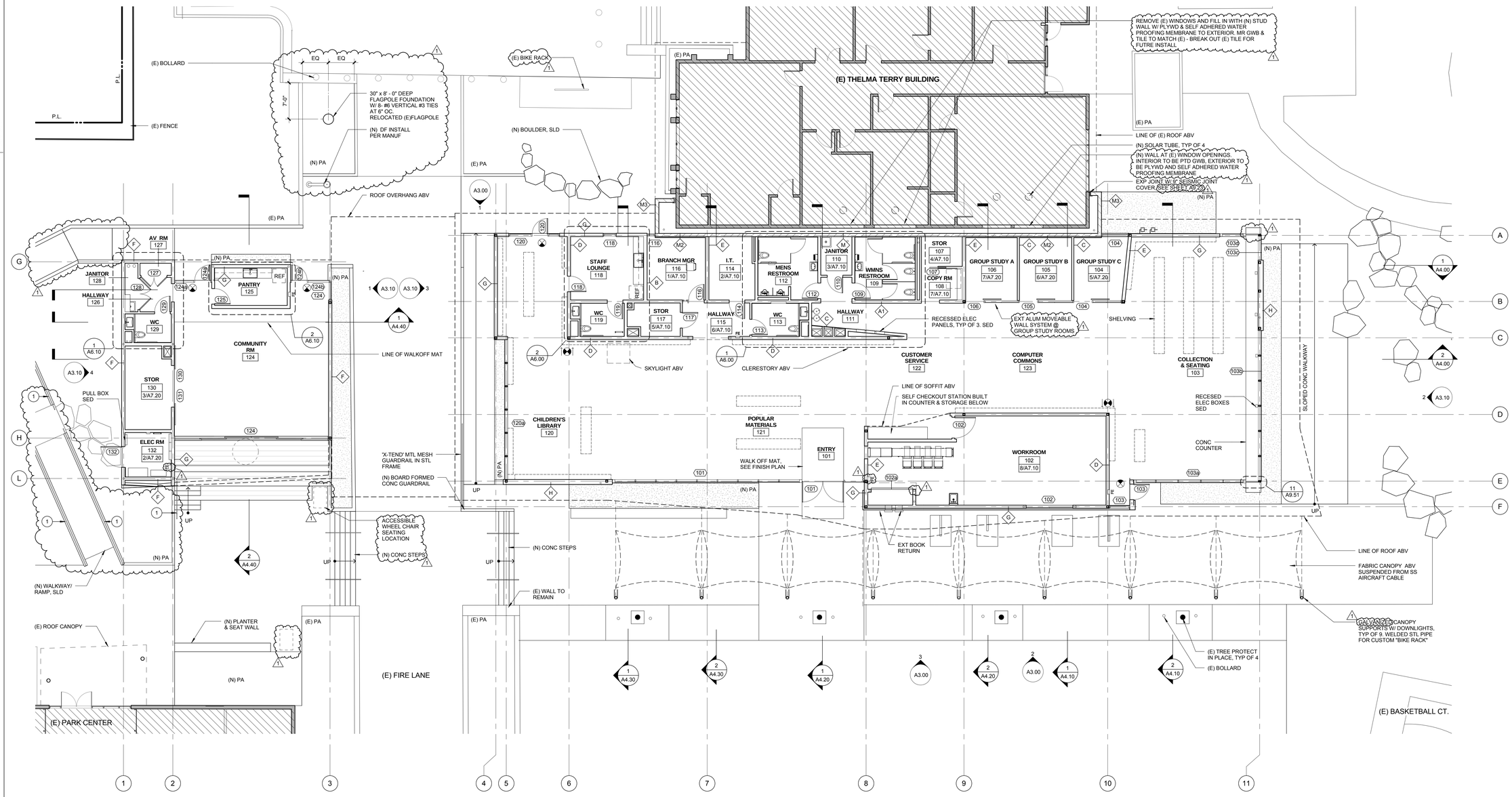
SHEET TITLE
FOUNDATION / SLAB PLAN

SHEET NO.
A2.00

SHEET OF
DWG NO. -
TITLE OF PROJECT



FLOOR PLAN

0 2' 4' 8' 1/8" = 1'-0" 1

FLOOR PLAN KEY NOTES

1. SS HANDRAIL

FLOOR PLAN GENERAL NOTES

1. SEE LANDSCAPE DRAWINGS FOR PAVING PLAN
2. SEE STRUCTURAL DRAWINGS FOR COLUMN AND SHEAR WALL LOCATIONS AND SIZES
3. SEE LIGHTING DRAWINGS, FOR LIGHTING LOCATIONS, TYPES, AND SIZES
4. SEE SURVEY FOR (E) TREE LOCATIONS & MISC SITE INFRASTRUCTURE
5. ALL WALLS TYPE (A) UNLESS NOTED OTHERWISE
6. SHELVING LOCATIONS SHOWN DASHED FOR COORDINATION

FLOOR PLAN LEGEND

- (E) BUILDING
- CMU FIRE WALL
- (N) WALLS
- (E) WALLS
- FE RECESSED FIRE EXTINGUISHER CABINET
- FE SURFACE FIRE EXTINGUISHER CABINET

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DRAWING NO. **6693**

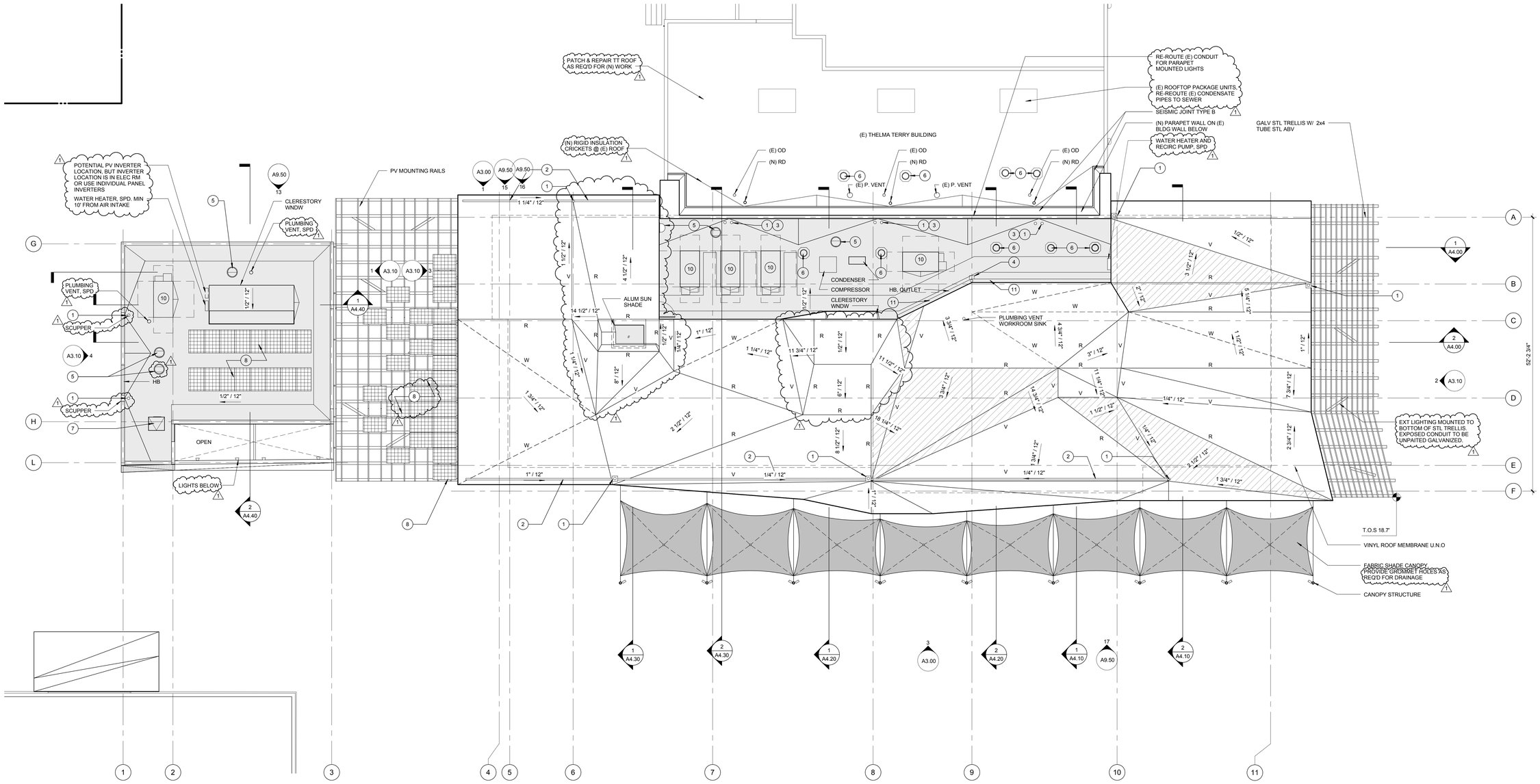
SHEET TITLE
FLOOR PLAN

SHEET NO.
A2.10

SHEET OF

DWG NO. -

TITLE OF PROJECT :



NOTE:
ARCHITECT WILL PROVIDE BIM MODEL TO CONTRACTOR FOR USE IN ESTABLISHING LOCATIONS & ELEVATIONS OF ROOF TRANSITIONS

PROJECT NORTH N

ROOF PLAN

0 2' 4' 8' | 1/8" = 1'-0" | 1

ROOF PLAN GENERAL NOTES

1. ALL R2 ROOF AREAS TO HAVE A SECOND LAYER OF PLYWD GLUED & SCREWED IN PLACE WITH SCREW HOLES. KNOT HOLES & GAPS BETWEEN SHEETS FILLED W/ ROOFING COMPATIBLE WOOD FILLER (NON-BITUMINOUS PRODUCT). EXCEPTION TO CALIFORNIA FRAMED ROOF AREAS IF PLYWD IS GLUED & SCREWED W/ HOLES FILL AS ABOVE.
2. CONTRACTOR TO INCLUDE AN ALLOWANCE FOR UP TO 150 FEET OF THERMOPLASTIC "DECOR PROFILE" STRIPS ON ROOF TO DIVERT WATER TO DRAINS. UPON COMPLETION OF ROOF, TEST FLOWS WITH HOSE IN PRESENCE OF ARCHITECT TO DETREMINE BEST LOCATION OF STRIPS. HEAVY WELD INTO PLACE.
3. ROOFING SEAM LAYOUT AT VISIBLE ROOF AREAS (R2) TO BE APPROVED BY ARCHITECT.

ROOF PLAN LEGEND

- R1 - WHITE
- R2 - LIGHT GRAY
- CALIFORNIA FRAMING ABV R2 STRUCTURE DIAPHRAM
- R — RIDGE
- V — VALLEY
- W — "RIDGE / VALLEY" IN WARPED ROOF SURFACE

SEE A9.10 FOR CORRESPONDING ROOF ASSEMBLIES

ROOF PLAN KEYNOTES

1. RECESSED ROOFDRAIN
2. RECESSED GUTTER
3. OVERFLOW
4. DOWN SPOUT W/ SPLASH BLOCK
5. EXHAUST FAN (SEE MECH DWG)
6. (N) SOLAR TUBE
7. (N) ROOF HATCH
8. PHOTOVOLTAIC PANELS
9. GALVANIZED STEEL TRELLIS
10. ROOFTOP HVAC PACKAGE UNIT EXACT LOCATION TBD. SEE MECH DWG
11. GUTTER

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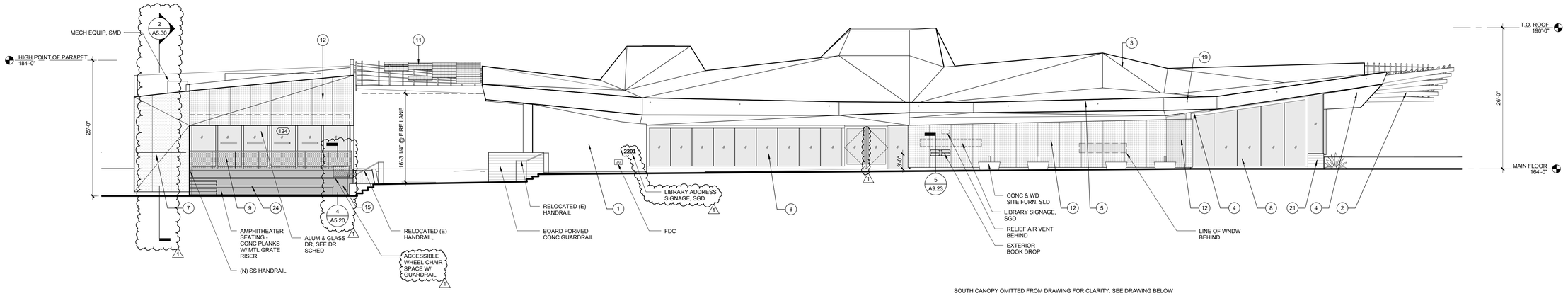
SHEET TITLE
ROOF PLAN

SHEET NO.
A2.20

SHEET OF

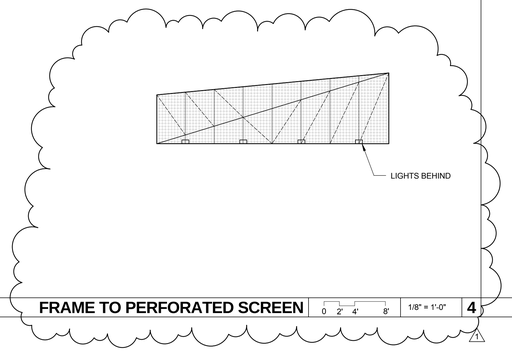
DWG NO. -

TITLE OF PROJECT:

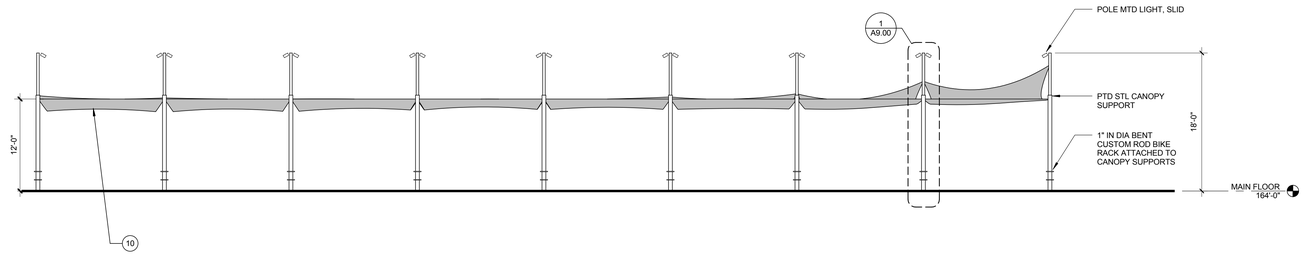


SOUTH CANOPY OMITTED FROM DRAWING FOR CLARITY. SEE DRAWING BELOW

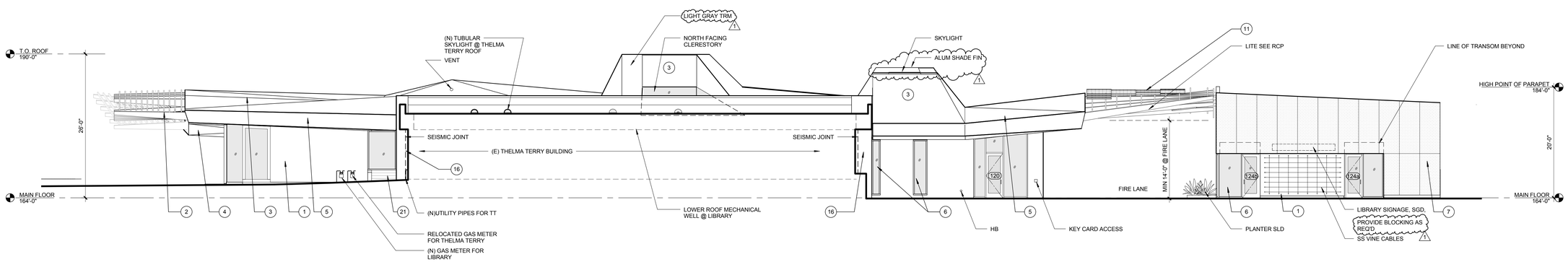
SOUTH ELEVATION 0 2' 4' 8' 1/8" = 1'-0" **3**



FRAME TO PERFORATED SCREEN 0 2' 4' 8' 1/8" = 1'-0" **4**



SOUTH CANOPY ELEVATION 0 2' 4' 8' 1/8" = 1'-0" **2**



NORTH ELEVATION 0 2' 4' 8' 1/8" = 1'-0" **1**

MATERIAL KEYNOTES

1. SMOOTH STL TROWELLED CEMENT PLASTER, PAINTED WHITE W/ ANTI GRAFFITI COATING
2. GALV STL TRELLIS WITH GALVD STL TUBE SECTIONS ABV, SSD
3. THERMOPLASTIC MEMBRANE ROOFING, LIGHT GRAY OR WHITE, SEE ROOF PLAN
4. SMOOTH STL TROWELLED CEMENT PLASTER SOFFIT TYP, PTD
5. THERMOPLASTIC MEMBRANE FASCIA TO MATCH ROOFING
6. EXTRUDED ALUMINUM GLAZING SYSTEM WITH LOW REFLECTIVITY GLASS, CLEAR ANOONDIZED FINISH
7. DIMPLED MTL PANEL FROM CUSTOM DIE W/ KYNAR FACTORY FINISH, PATTERN TBD
8. BUTT-JOINT INSULATED GLASS IN ALUM FRAME, CLR ANNOD
9. METAL MESH GUARDRAIL
10. CUSTOM COLORED FIRE RETARDENT FABRIC CANOPY SUSP ON SS AIRCRAFT CABLE. FABRIC TO BE APPROVED BY FIRE DEPT
11. SOLAR PANELS WITH TRANSPARENT BACKSHEET ON GALV STL TRELLIS
12. PERF MTL PANEL W/ KYNAR FINISH, CUSTOM PATTERN TBD
13. NOT USED
14. NOT USED
15. ALUM GRATING
16. PTD SMOOTH STL TROWELLED CEMENT PLASTER TO MATCH (E) THELMA TERRY
17. SUSPENDED ACOUSTIC PLASTER SYSTEM
18. RECESSED LIGHT FIXTURE
19. SS EYE NUT TO CANOPY SUPPORT
20. RAISED ACCESS FLOOR OVER SLAB ON GRADE, SEE FINISH PLAN FOR FINISH INFO
21. BOARD FORMED CONCRETE WALL
22. HORIZONTAL BUTT JOINT
23. EXT GLASS SYSTEM IN CUSTOM STL FRAME, PTD
24. PRE-CAST CONC PLANKS

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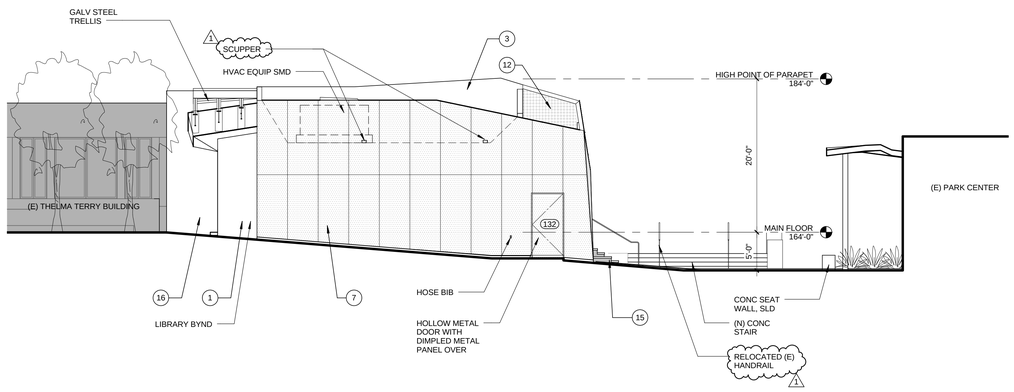
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.00

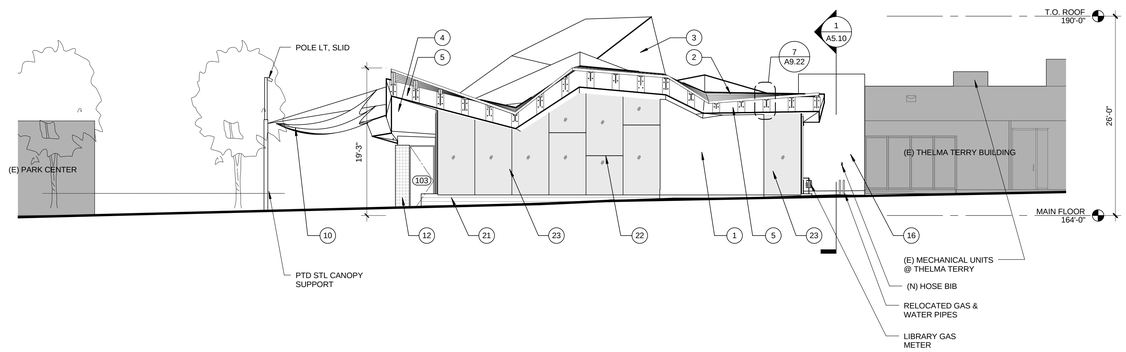
SHEET OF

DWG NO. - -

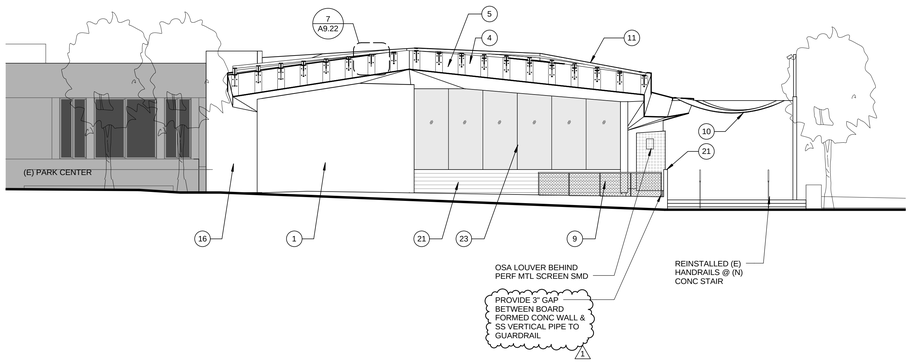
TITLE OF PROJECT



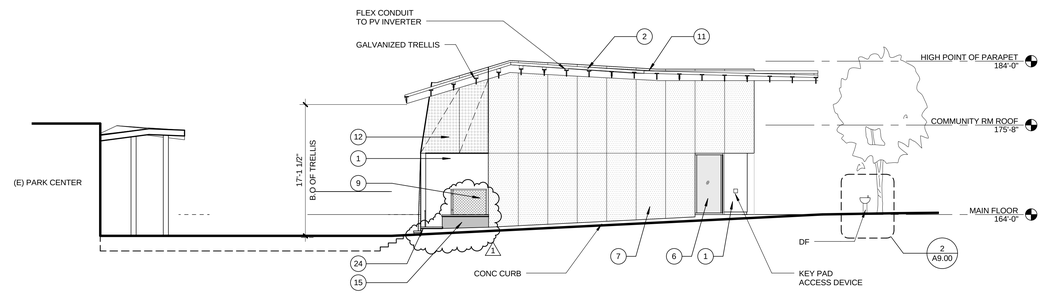
WEST ELEVATION COMMUNITY RM 0 2' 4' 8' 1/8" = 1'-0" **4**



EAST ELEVATION LIBRARY 0 2' 4' 8' 1/8" = 1'-0" **2**



WEST ELEVATION LIBRARY (AT FIRELANE) 0 2' 4' 8' 1/8" = 1'-0" **3**



EAST ELEVATION COMMUNITY RM (AT FIRELANE) 0 2' 4' 8' 1/8" = 1'-0" **1**

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14. NOT USED
15. ALUM GRATING
16. PTD SMOOTH STL TROWELLED CEMENT PLASTER TO MATCH (E) THELMA TERRY
17. SUSPENDED ACOUSTIC PLASTER SYSTEM
18. RECESSED LIGHT FIXTURE
19. SS EYE NUT TO CANOPY SUPPORT
20. RAISED ACCESS FLOOR OVER SLAB ON GRADE, SEE FINISH PLAN FOR FINISH INFO
21. BOARD FORMED CONCRETE WALL
22. HORIZONTAL BUTT JOINT
23. EXT GLASS SYSTEM IN CUSTOM STL FRAME, PTD
24. PRE-CAST CONC PLANKS

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SUBMITTED BY : DATE : 20

APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

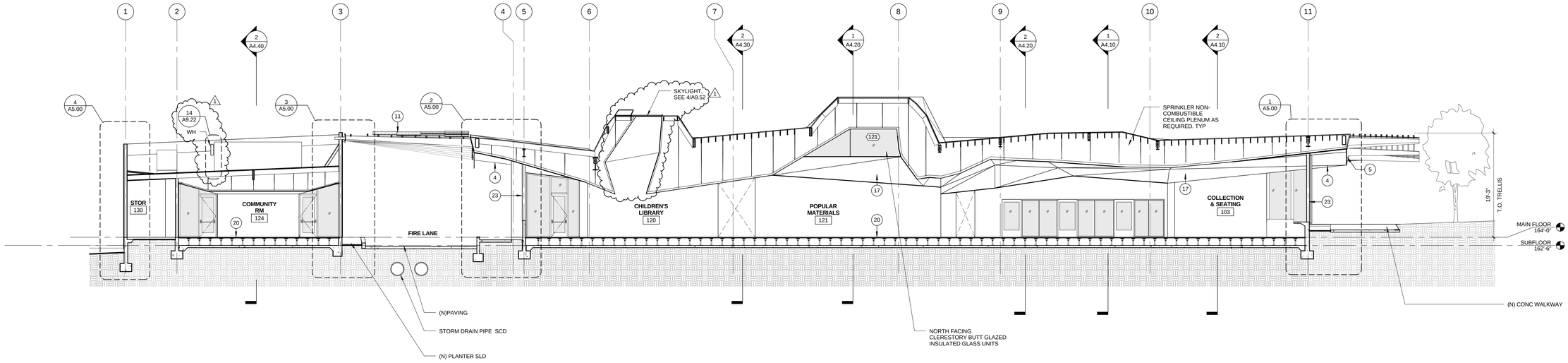
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.10

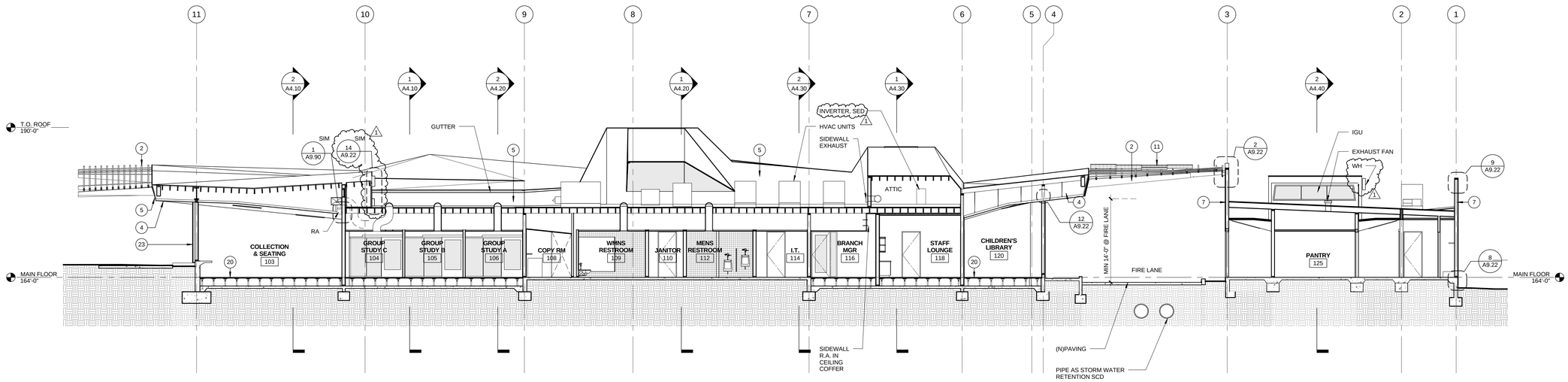
SHEET OF

DWG. NO. - -

TITLE OF PROJECT :



LIBRARY EAST/ WEST SECTION 0 1' 2' 4' 1/8" = 1'-0" **2**



LIBRARY EAST/ WEST SECTION 2 0 1' 2' 4' 1/8" = 1'-0" **1**

MATERIAL KEYNOTES

1. SMOOTH STL TROWELLED CEMENT PLASTER, PAINTED WHITE W/ ANTI GRAFFITI COATING
2. GALV STL TRELLIS WITH GALVD STL TUBE SECTIONS ABV, SSD
3. THERMOPLASTIC MEMBRANE ROOFING, LIGHT GRAY OR WHITE, SEE ROOF PLAN
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SUBMITTED BY : DATE : 20

APPROVED BY : DATE : 20
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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DATE
02/21/2012

DRAWING NO. **6693**

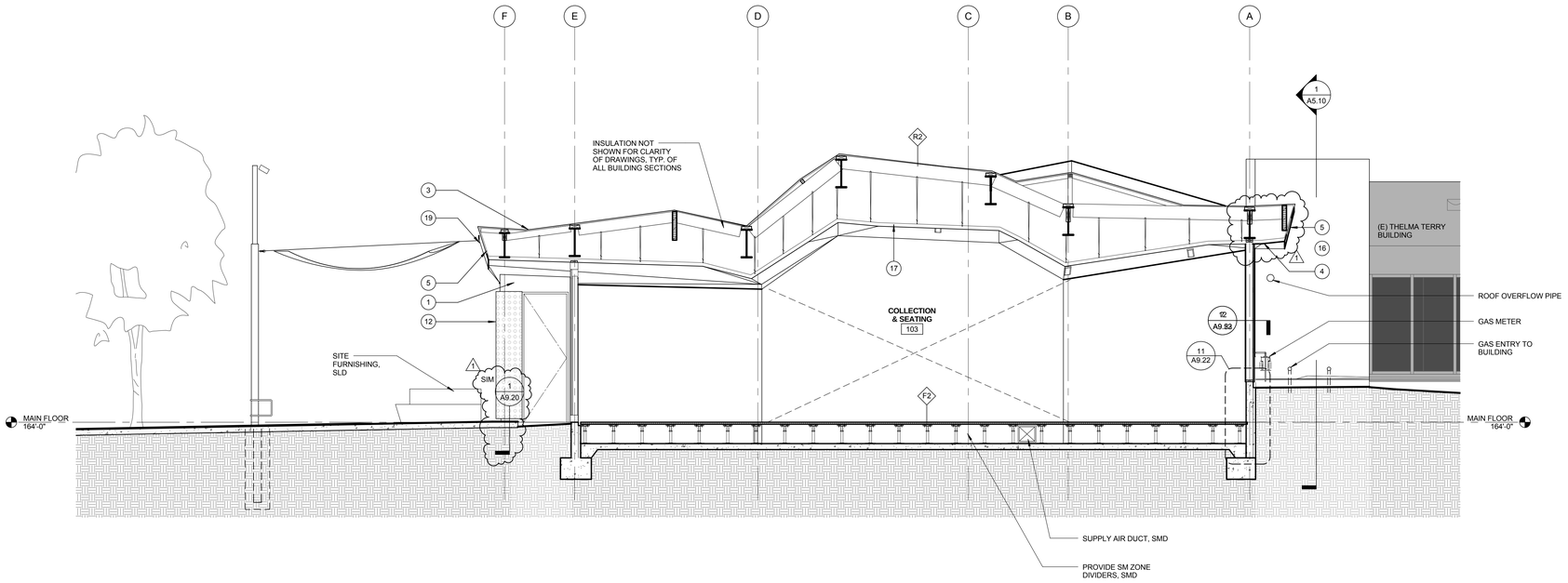
SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A4.00

SHEET OF

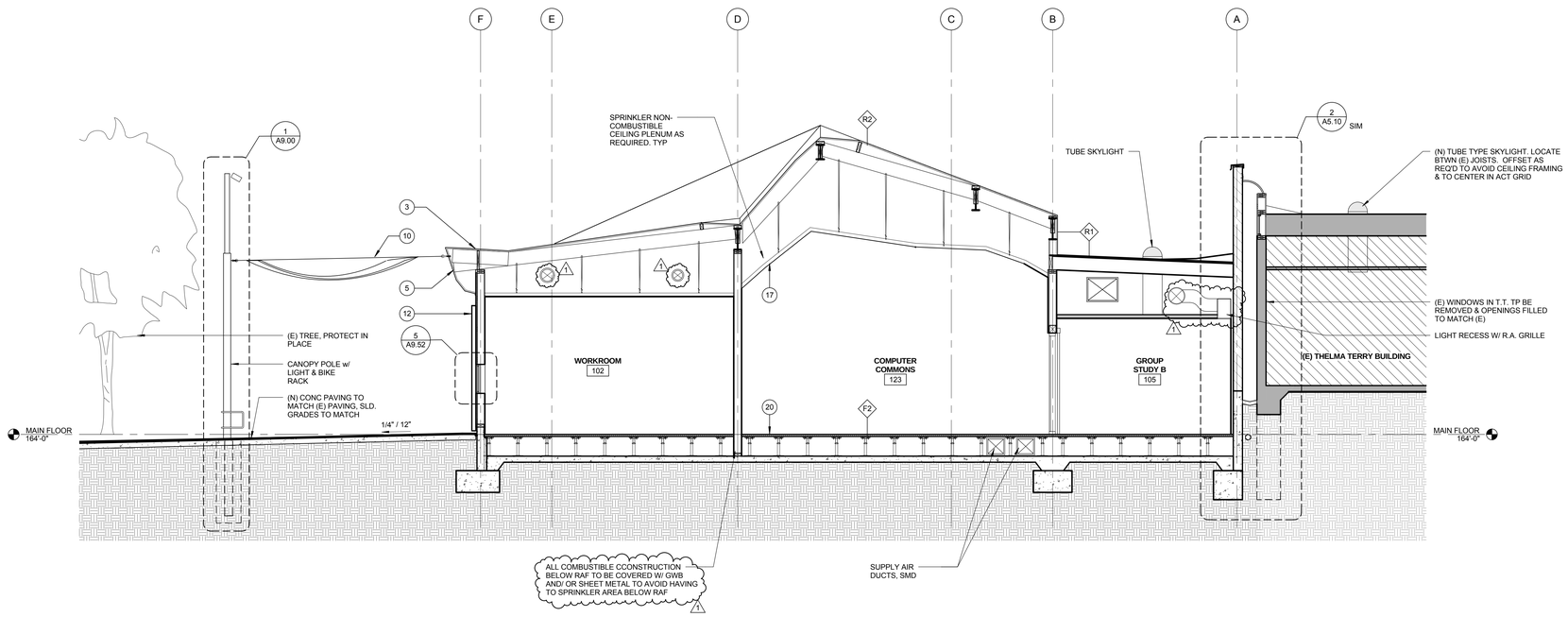
DWG. NO. -

TITLE OF PROJECT :



NORTH / SOUTH SECTION 1

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



NORTH / SOUTH SECTION 2

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

MATERIAL KEYNOTES

1. SMOOTH STL TROWELLED CEMENT PLASTER, PAINTED WHITE W/ ANTI GRAFFITI COATING
2. GALV STL TRELLIS WITH GALVD STL TUBE SECTIONS ABV, SSD
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APPROVED BY : DATE : 20
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
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DATE
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DRAWING NO. **6693**

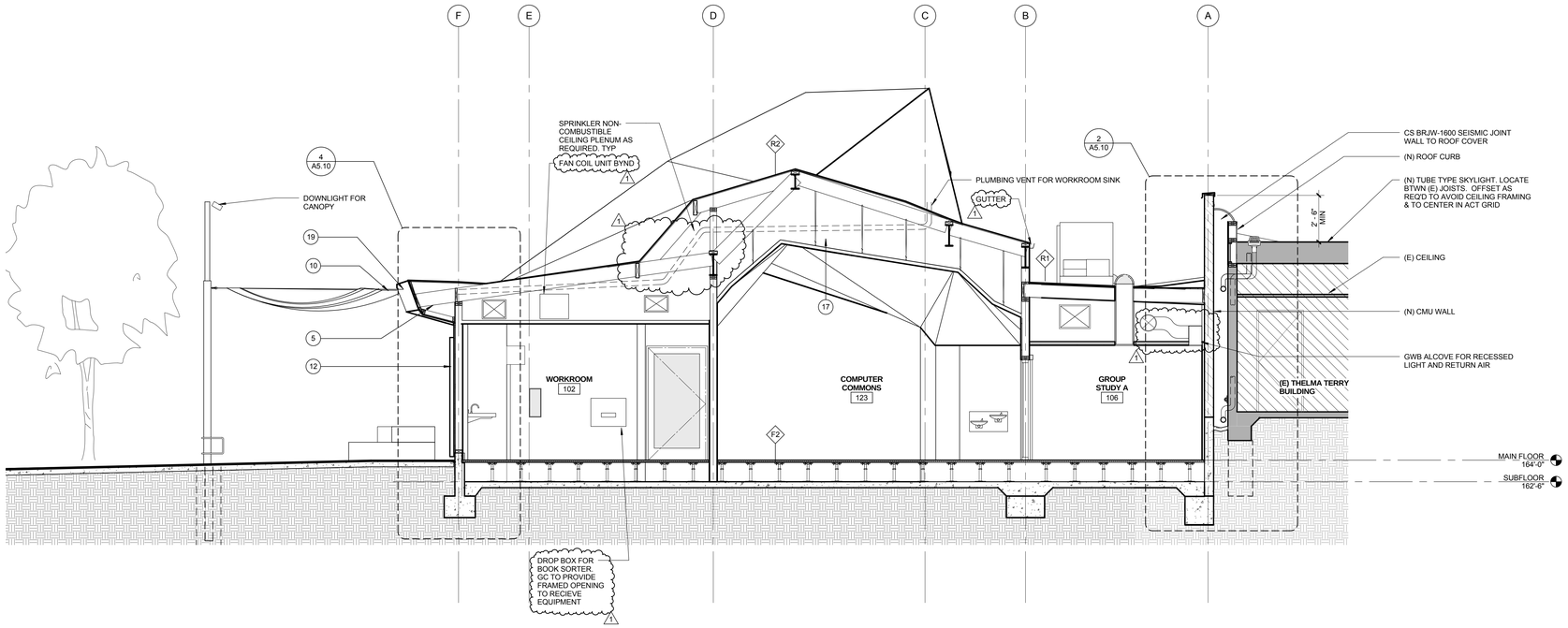
SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A4.10

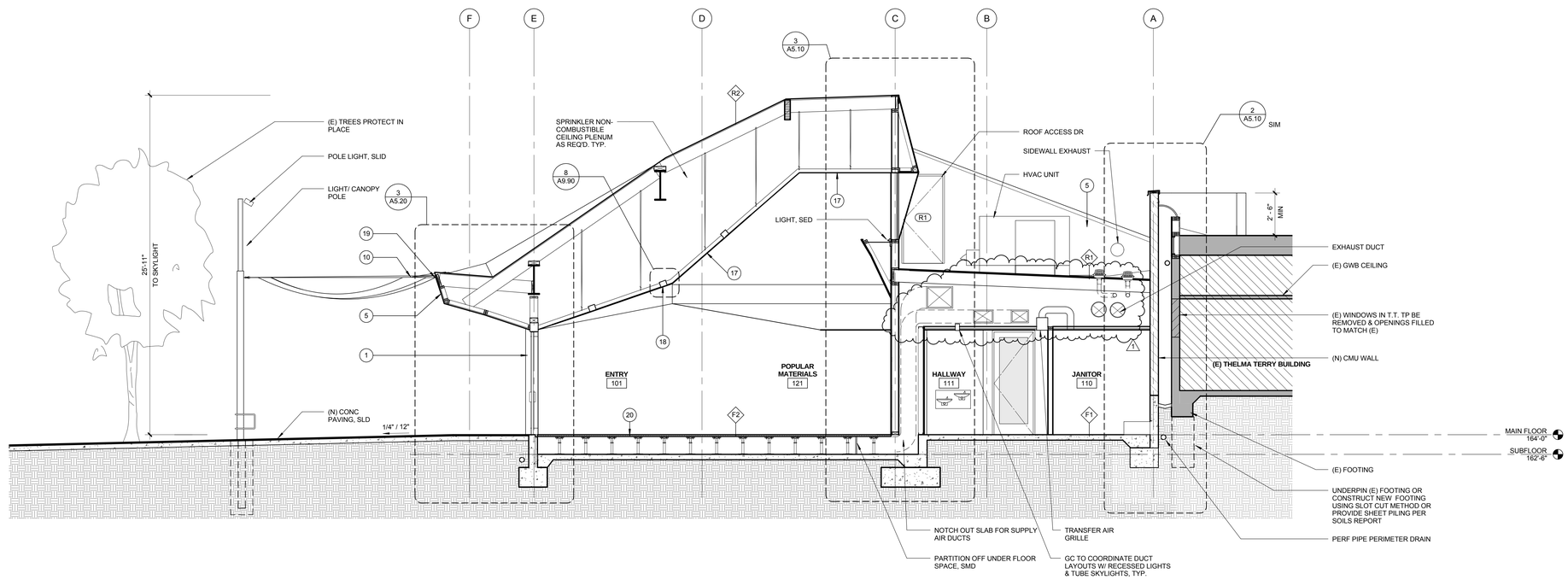
SHEET OF

DWG NO. -

TITLE OF PROJECT:



NORTH / SOUTH SECTION 3 | 0 2' 4' 8' | 1/4" = 1'-0" | **2**



NORTH / SOUTH SECTION 4 | 0 2' 4' 8' | 1/4" = 1'-0" | **1**

MATERIAL KEY NOTES

1. SMOOTH STL TROWELLED CEMENT PLASTER, PAINTED WHITE W/ ANTI GRAFFITI COATING
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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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DEPARTMENT OF PUBLIC WORKS

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DATE
02/21/2012

DRAWING NO. **6693**

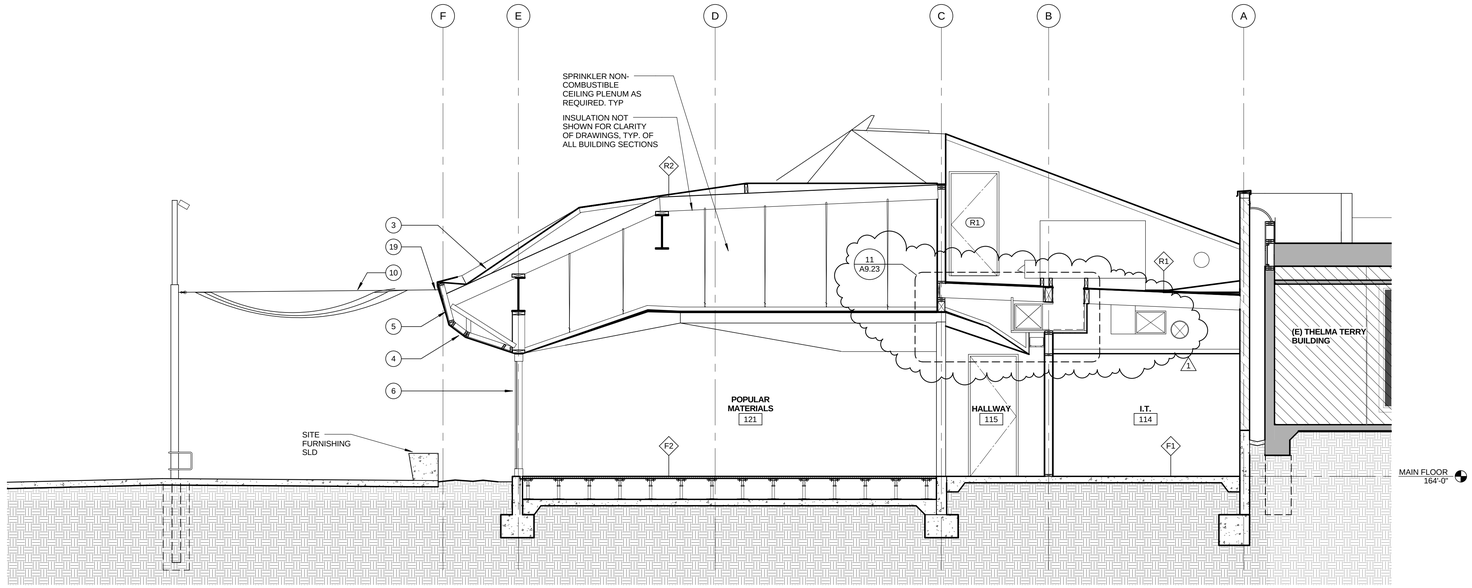
SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A4.20

SHEET OF

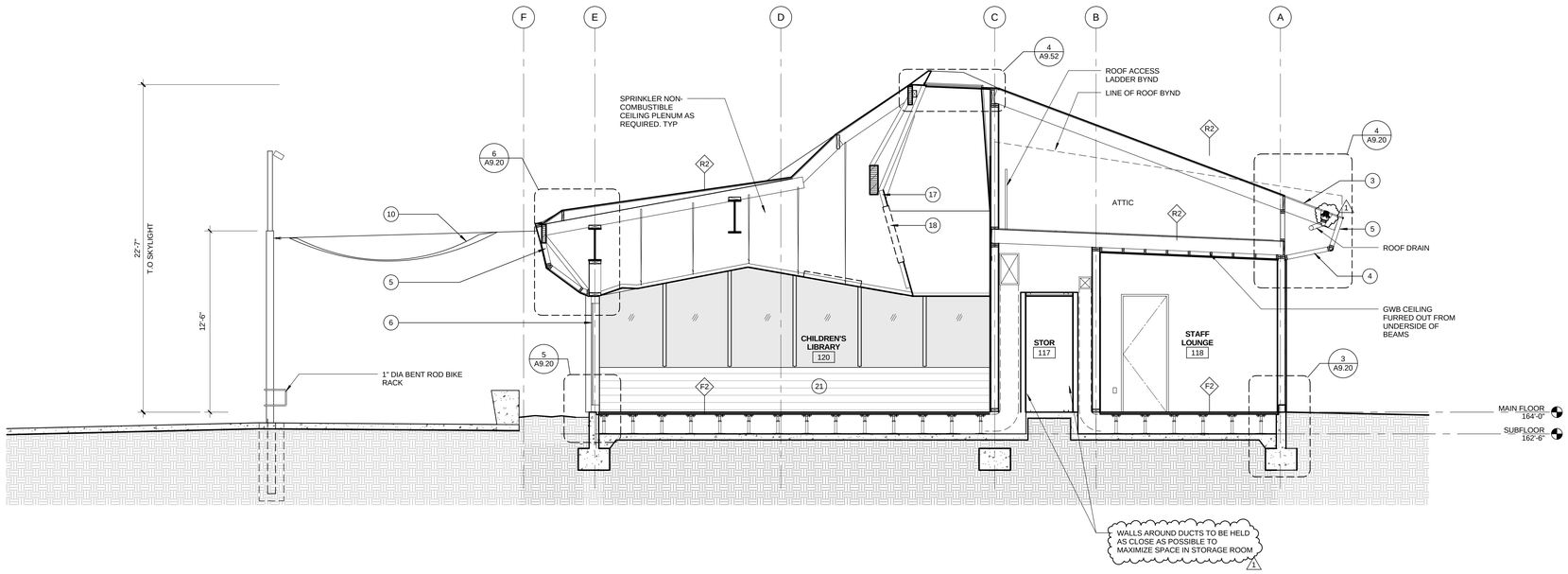
DWG NO. - -

TITLE OF PROJECT:



NORTH / SOUTH SECTION 5

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



NORTH / SOUTH SECTION 6

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

MATERIAL KEYNOTES

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DRAWING NO.
6693

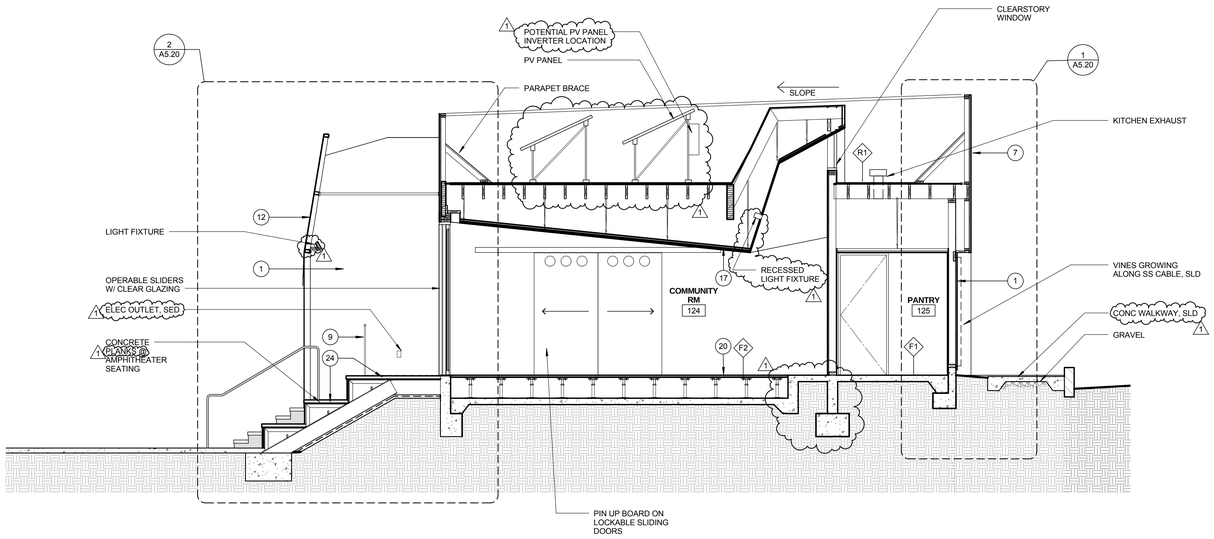
SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A4.30

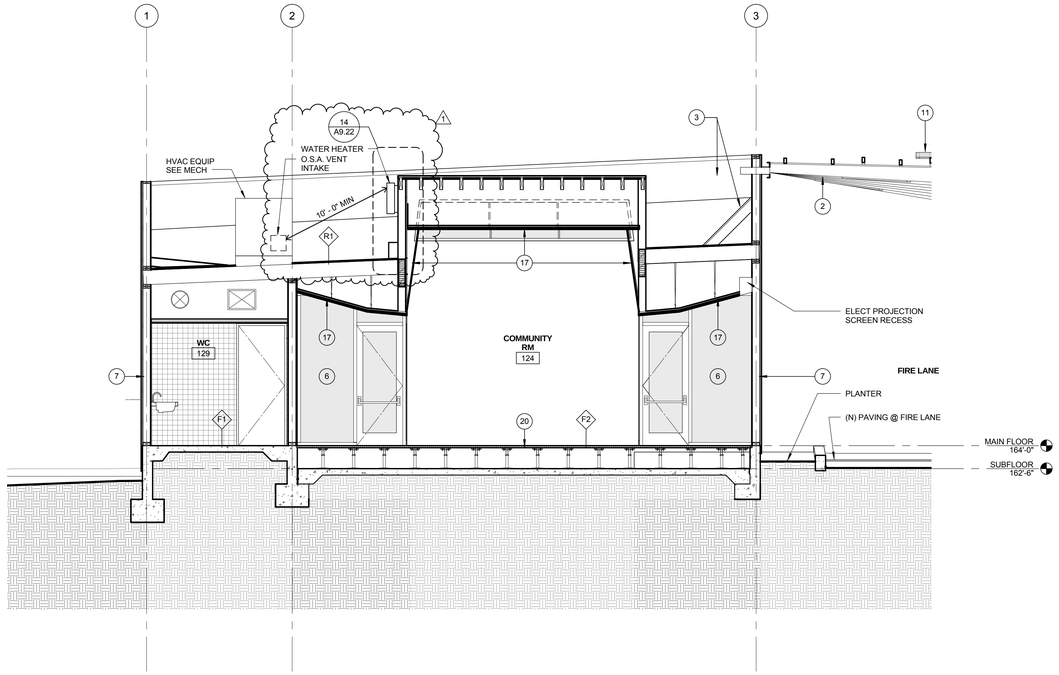
SHEET OF

DWG. NO. -

TITLE OF PROJECT



COMMUNITY RM NORTH / SOUTH SECTION | 0 1' 2' 4' | 1/4" = 1'-0" | **2**



COMMUNITY RM EAST / WEST SECTION | 0 1' 2' 4' | 1/4" = 1'-0" | **1**

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Architecture Services Manager

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DRAWING NO. **6693**

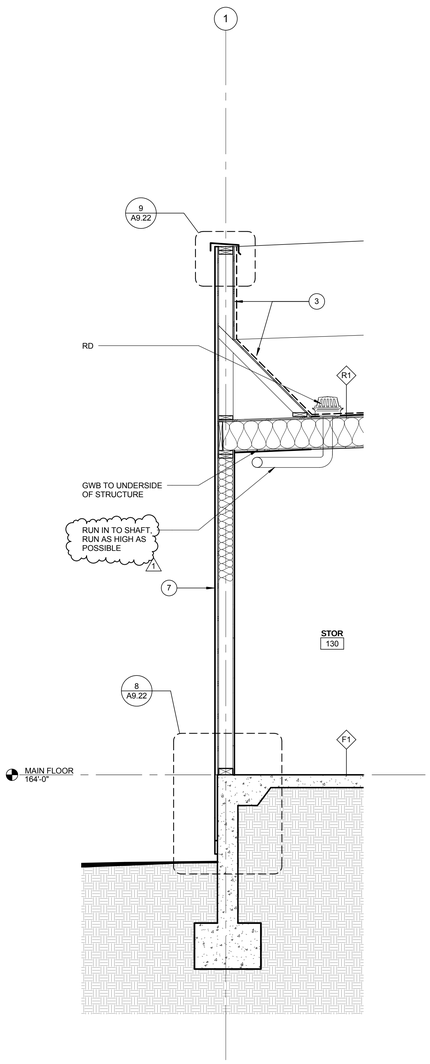
SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A4.40

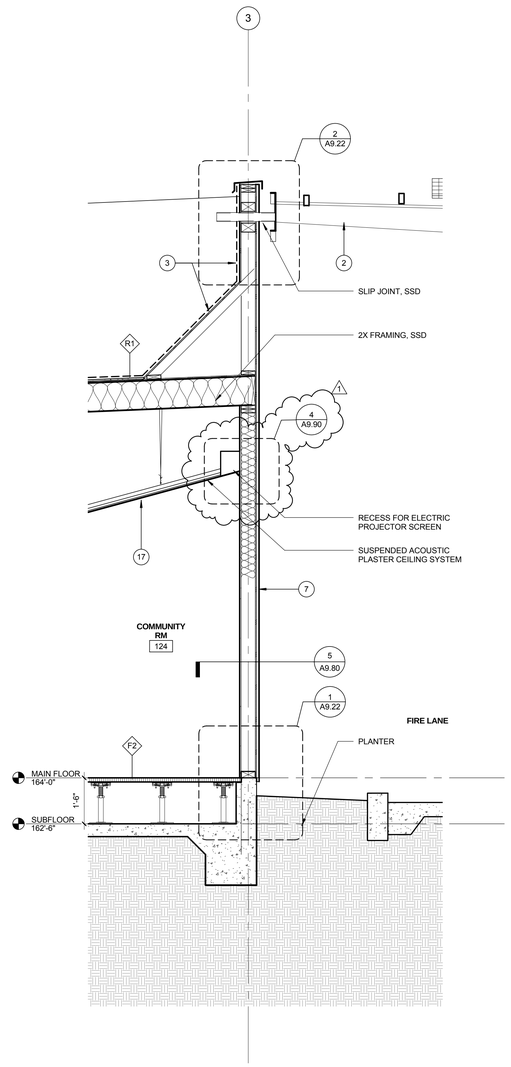
SHEET OF

DWG. NO. - -

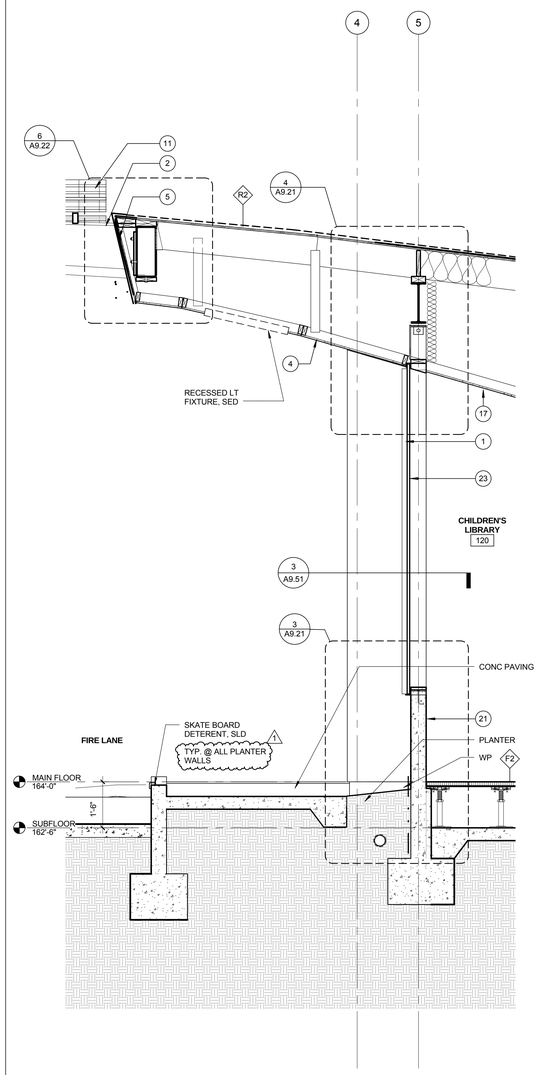
TITLE OF PROJECT :



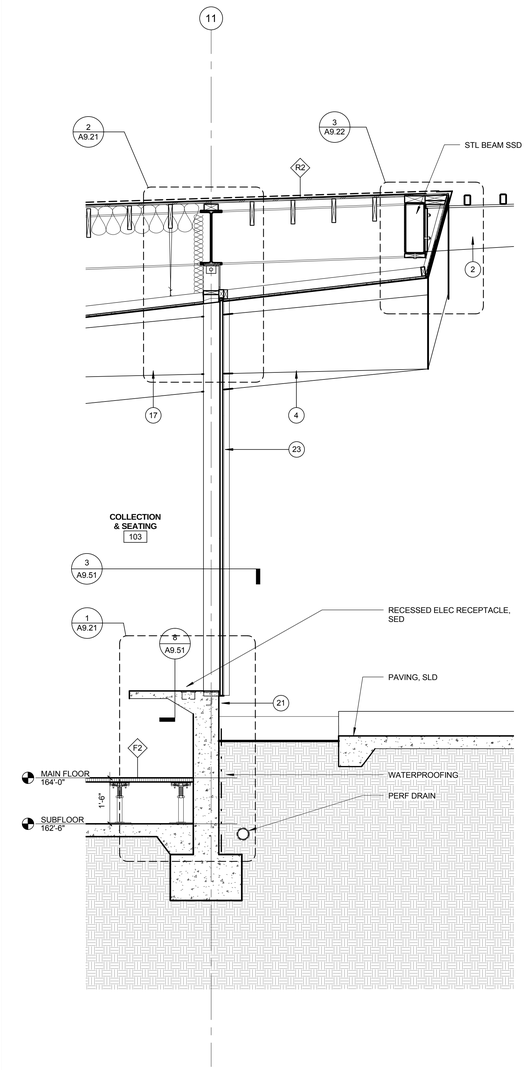
WALL SECTION @ WEST COMMUNITY RM | 0 6" 1' 2' | 1/2" = 1'-0" | **4**



WALL SECTION @ EAST COMMUNITY RM | 0 6" 1' 2' | 1/2" = 1'-0" | **3**



WALL SECTION @ WEST LIBRARY | 0 6" 1' 2' | 1/2" = 1'-0" | **2**



WALL SECTION @ EAST LIBRARY | 0 6" 1' 2' | 1/2" = 1'-0" | **1**

MATERIAL KEYNOTES

1. SMOOTH STL TROWELLED CEMENT PLASTER, PAINTED WHITE W/ ANTI GRAFFITI COATING
2. GALV STL TRELLIS WITH GALVD STL TUBE SECTIONS ABV, SSD
3. THERMOPLASTIC MEMBRANE ROOFING, LIGHT GRAY OR WHITE, SEE ROOF PLAN
4. SMOOTH STL TROWELLED CEMENT PLASTER SOFFIT TYP, PTD
5. THERMOPLASTIC MEMBRANE FASCIA TO MATCH ROOFING
6. EXTRUDED ALUMINUM GLAZING SYSTEM WITH LOW REFLECTIVITY GLASS, CLEAR ANONDIZED FINISH
7. DIMPLED MTL PANEL FROM CUSTOM DIE W/ KYNAR FACTORY FINISH, PATTERN TBD
8. BUTT-JOINT INSULATED GLASS IN ALUM FRAME, CLR ANNOD
9. METAL MESH GUARDRAIL
10. CUSTOM COLORED FIRE RETARDENT FABRIC CANOPY SUSP ON SS AIRCRAFT CABLE. FABRIC TO BE APPROVED BY FIRE DEPT
11. SOLAR PANELS WITH TRANSPARENT BACKSHEET ON GALV STL TRELLIS
12. PERF MTL PANEL W/ KYNAR FINISH, CUSTOM PATTERN TBD
13. NOT USED
14. NOT USED
15. ALUM GRATING
16. PTD SMOOTH STL TROWELLED CEMENT PLASTER TO MATCH (E) THELMA TERRY
17. SUSPENDED ACOUSTIC PLASTER SYSTEM
18. RECESSED LIGHT FIXTURE
19. SS EYE NUT TO CANOPY SUPPORT
20. RAISED ACCESS FLOOR OVER SLAB ON GRADE, SEE FINISH PLAN FOR FINISH INFO
21. BOARD FORMED CONCRETE WALL
22. HORIZONTAL BUTT JOINT
23. EXT GLASS SYSTEM IN CUSTOM STL FRAME, PTD
24. PRE-CAST CONC PLANKS

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PROJECT

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ARCHITECT'S PROJECT NO.
1001

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Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

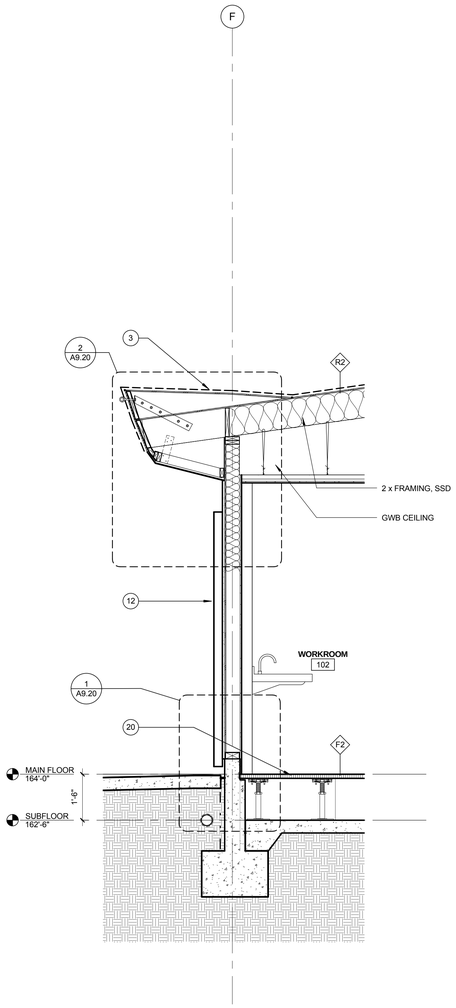
SHEET TITLE
WALL SECTIONS

SHEET NO.
A5.00

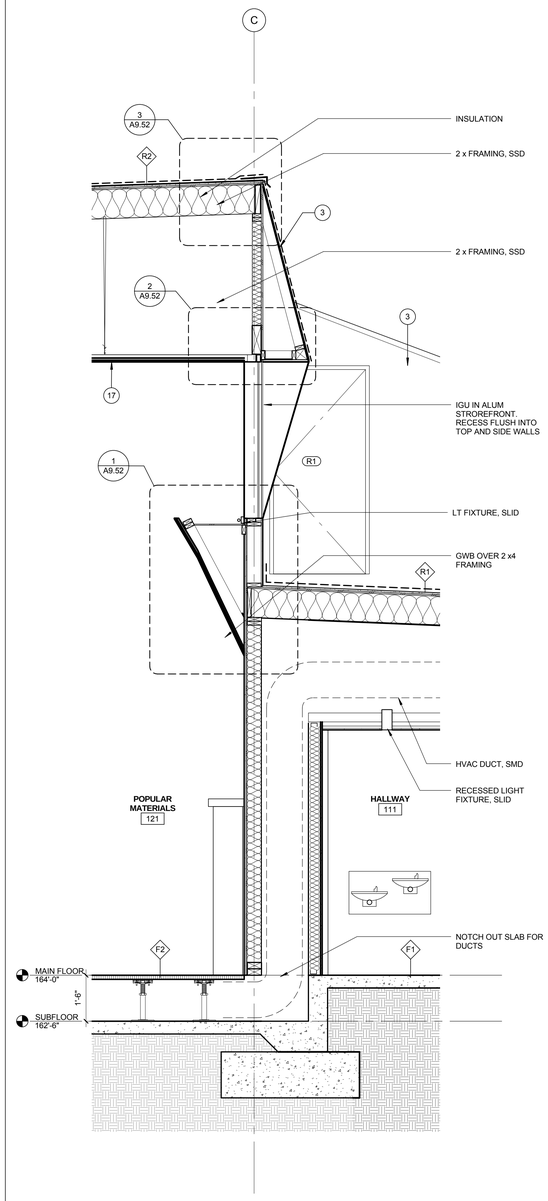
SHEET OF

DWG NO. -

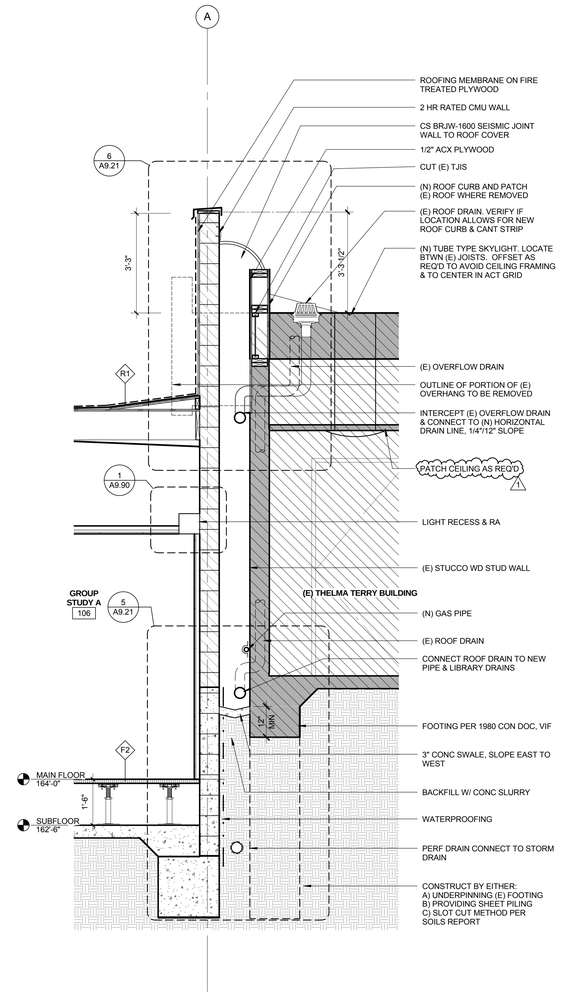
TITLE OF PROJECT :



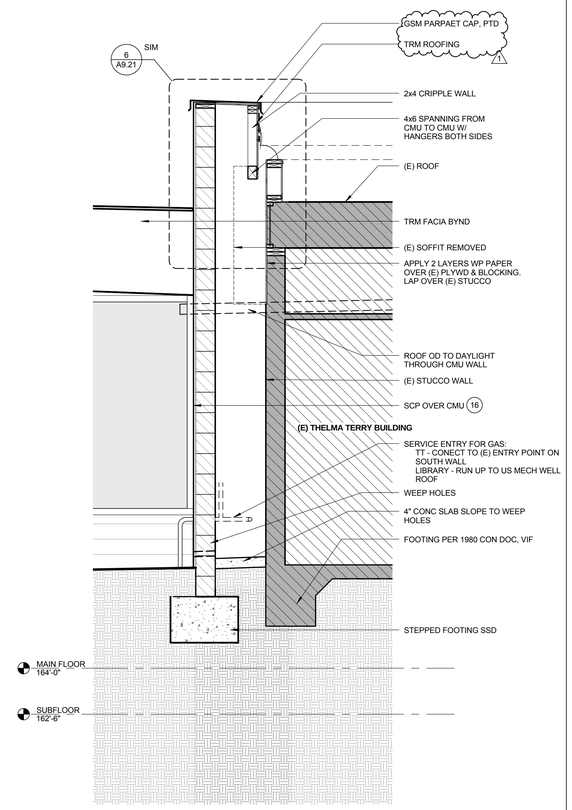
WALL SECTION @ WORK ROOM | 0 6" 1' 2' | 1/2" = 1'-0" | 4



WALL SECTION @ CLERESTORY | 0 6" 1' 2' | 1/2" = 1'-0" | 3



WALL SECTION @ NORTH TT | 0 6" 1' 2' | 1/2" = 1'-0" | 2



WALL SECTION @ WEST TT | 0 6" 1' 2' | 1/2" = 1'-0" | 1

MATERIAL KEYNOTES

1. SMOOTH STL TROWELLED CEMENT PLASTER, PAINTED WHITE W/ ANTI GRAFFITI COATING
2. GALV STL TRELLIS WITH GALVD STL TUBE SECTIONS ABV, SSD
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SHEET OF

DWG NO. - -

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Architecture Services Manager

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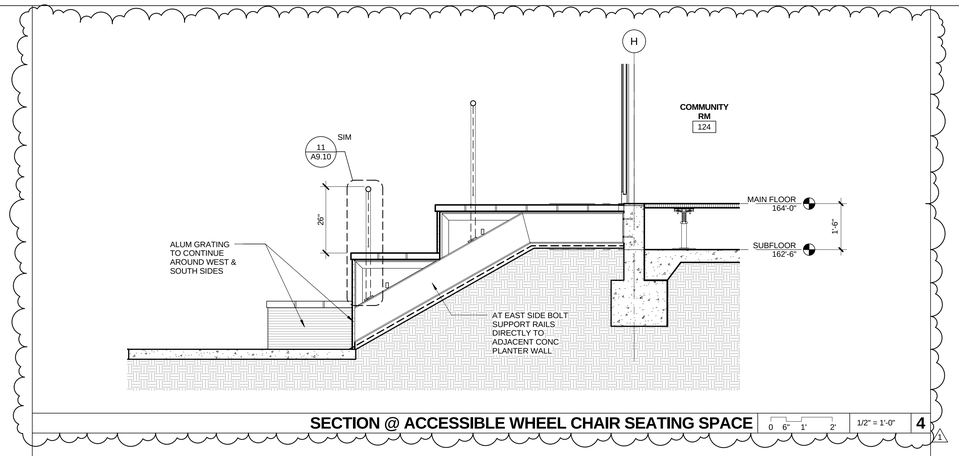
ISSUE
ADDENDUM 2

DATE
02/21/12

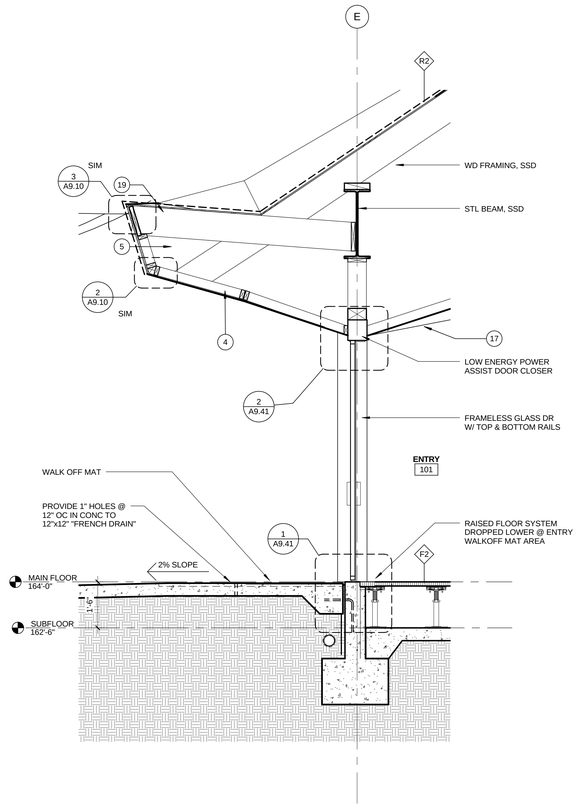
DRAWING NO. **6693**

SHEET TITLE
WALL SECTIONS

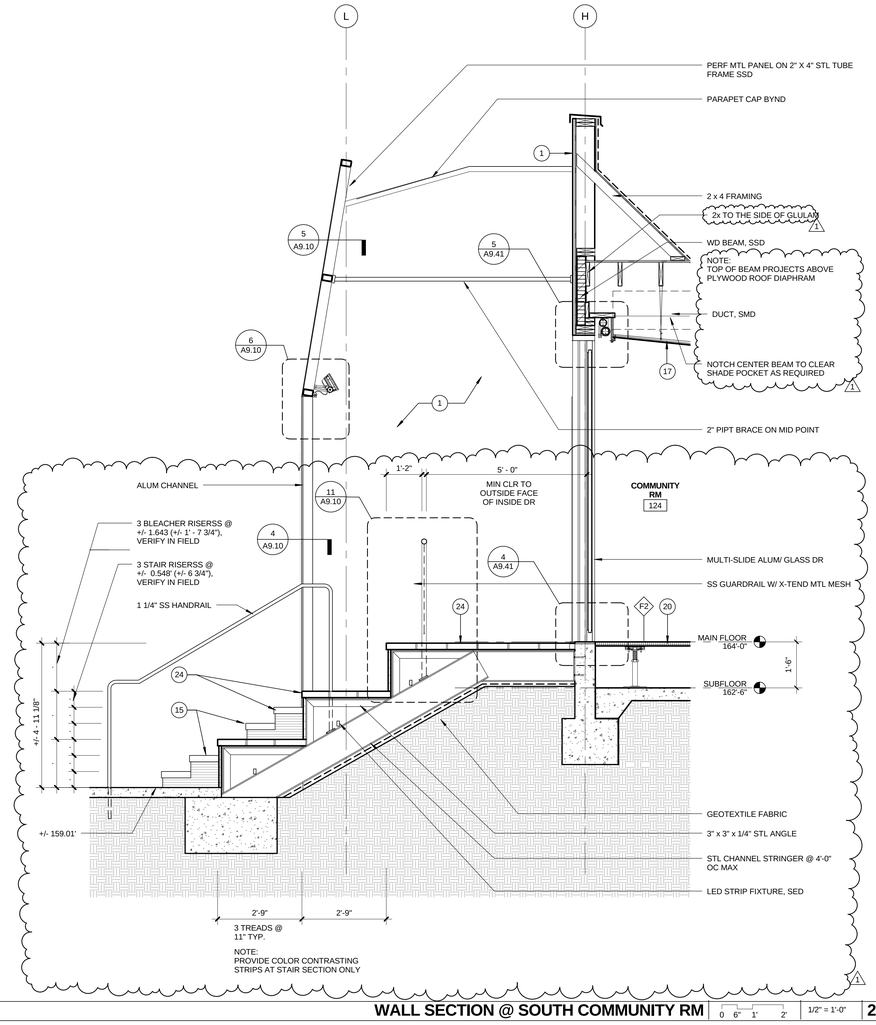
SHEET NO.
A5.10



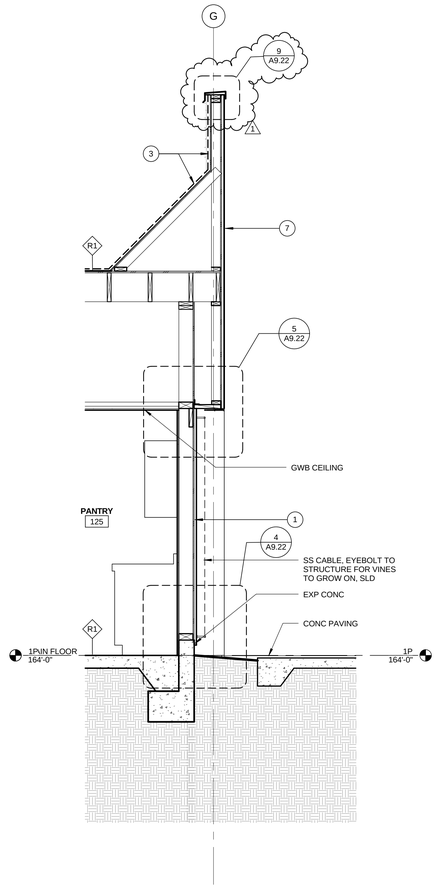
SECTION @ ACCESSIBLE WHEEL CHAIR SEATING SPACE 0 6" 1' 2' 1/2" = 1'-0" **4**



WALL SECTION @ ENTRY 0 6" 1' 2' 1/2" = 1'-0" **3**



WALL SECTION @ SOUTH COMMUNITY RM 0 6" 1' 2' 1/2" = 1'-0" **2**



WALL SECTION @ NORTH COMMUNITY RM 0 6" 1' 2' 1/2" = 1'-0" **1**

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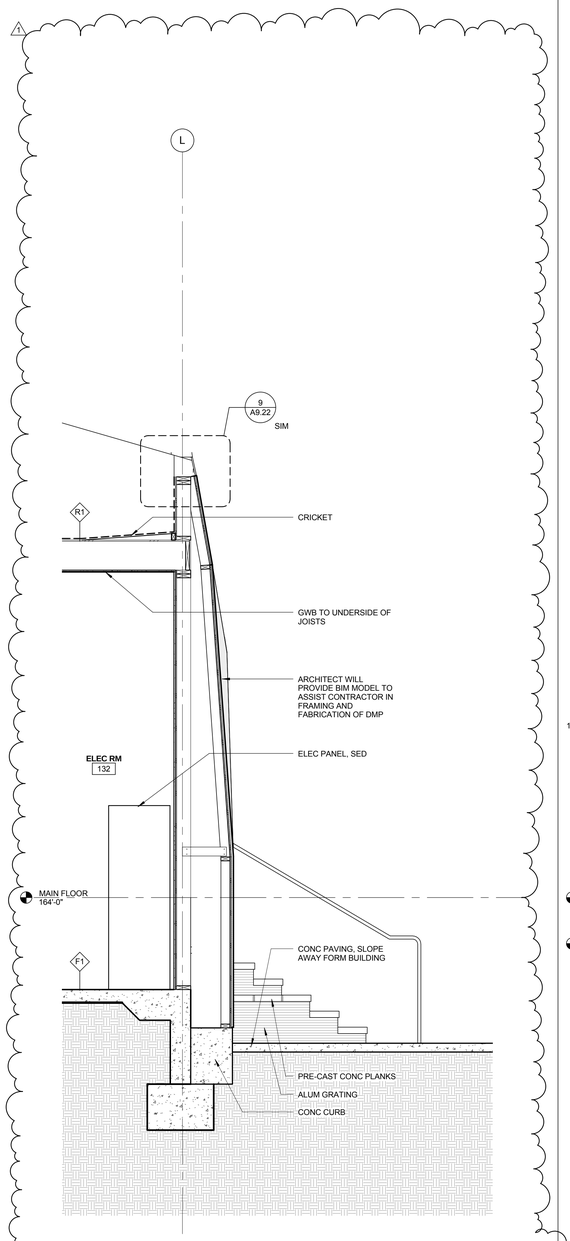
02/21/2012

DRAWING NO. **6693**

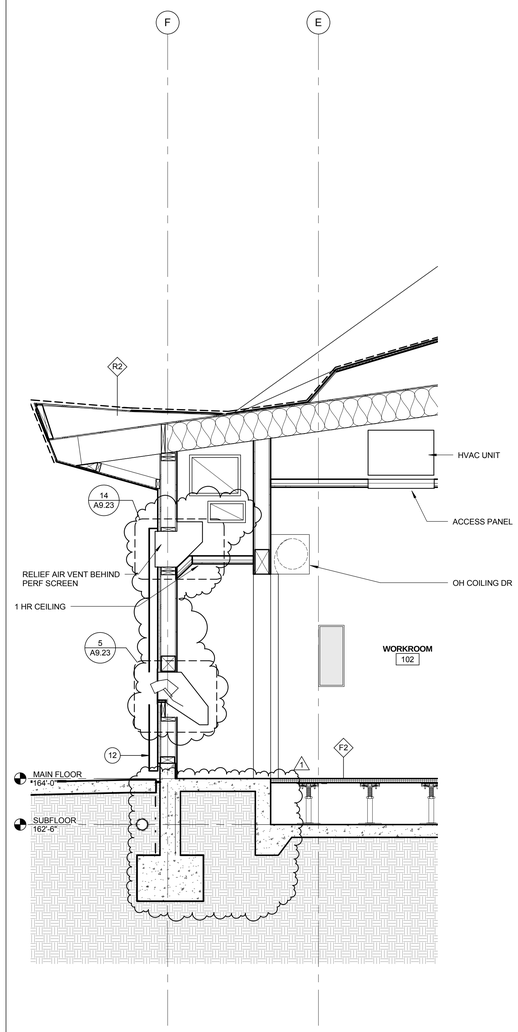
SHEET TITLE
WALL SECTIONS

SHEET NO.
A5.20

SHEET OF
DWG. NO. -
TITLE OF PROJECT



WALL SECTION @ SOUTH ELEC RM | 0 6" 1' 2' | 1/2" = 1'-0" | **2**



WALL SECTION @ BOOK DROP OFF | 0 6" 1' 2' | 1/2" = 1'-0" | **1**

MATERIAL KEYNOTES

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DRAWING NO. **6693**

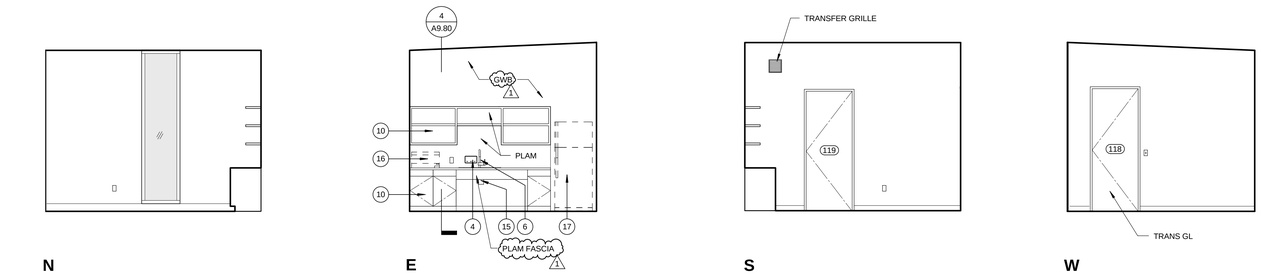
SHEET TITLE
WALL SECTIONS

SHEET NO.
A5.30

SHEET OF

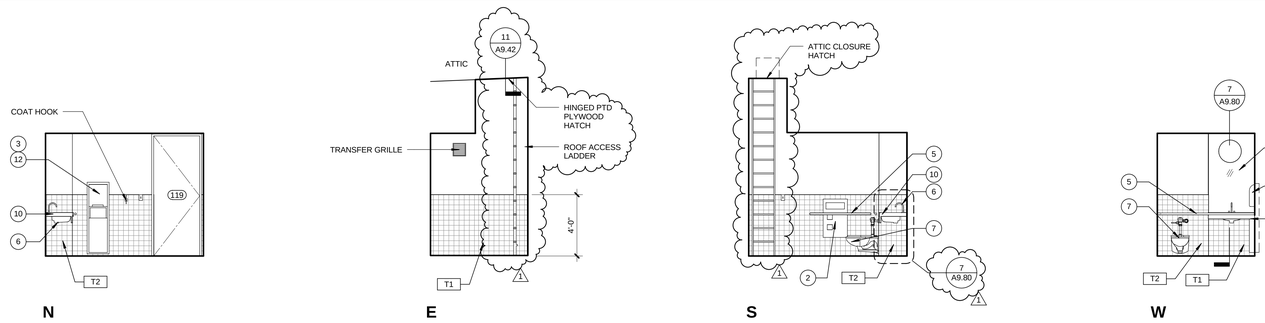
DWG NO. -

TITLE OF PROJECT



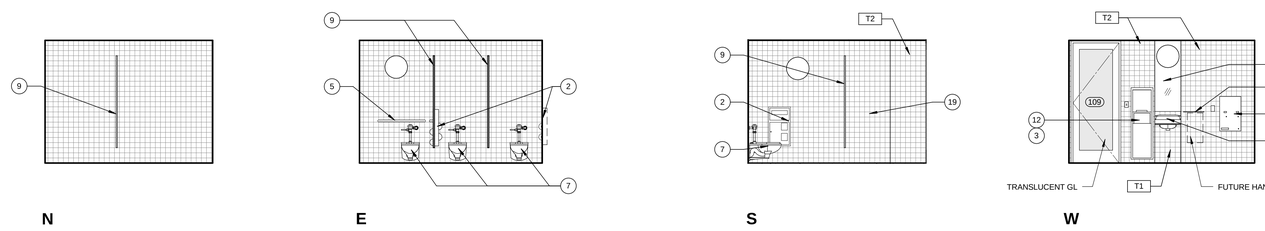
N E S W

STAFF LOUNGE 0 1' 2' 4' 1/4" = 1'-0" **8**



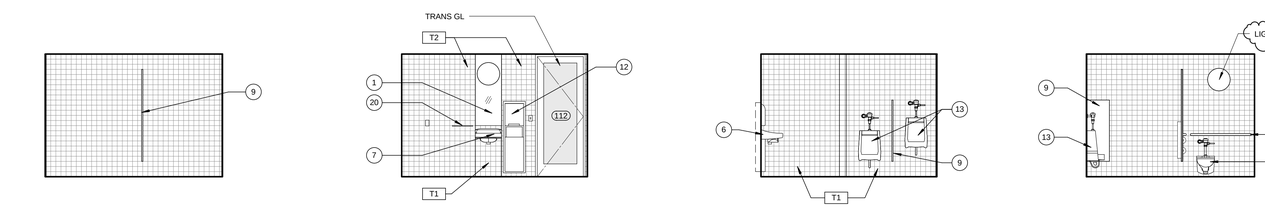
N E S W

WC 119 0 1' 2' 4' 1/4" = 1'-0" **7**



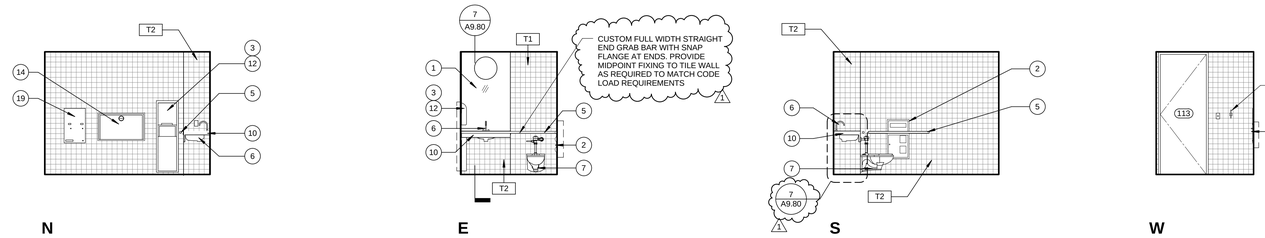
N E S W

WMNS RESTROOM 0 1' 2' 4' 1/4" = 1'-0" **6**



N E S W

MENS RESTROOM 0 1' 2' 4' 1/4" = 1'-0" **5**

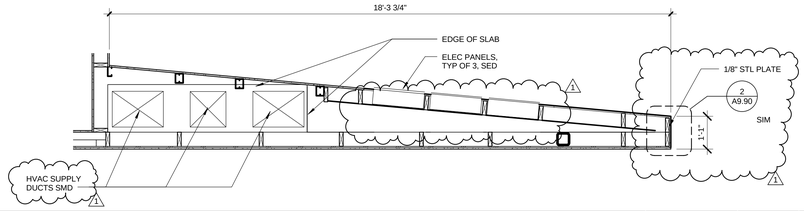


N E S W

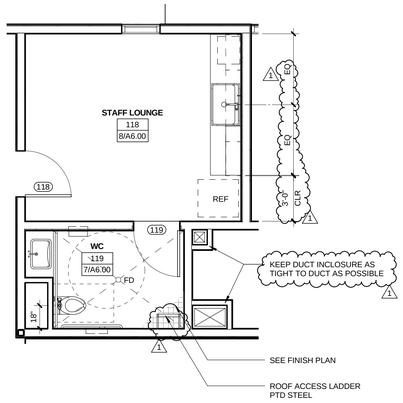
WC 113 0 1' 2' 4' 1/4" = 1'-0" **4**

NOTE:

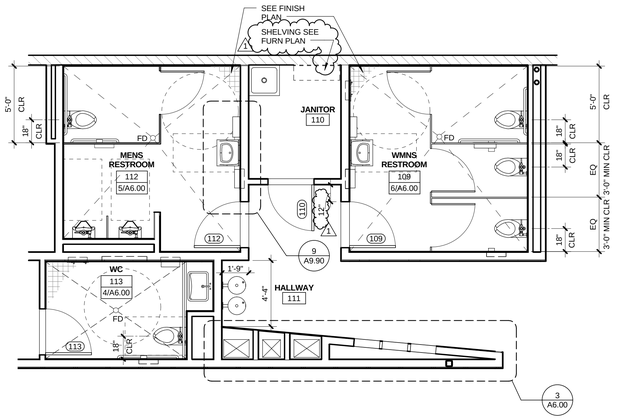
SEE SHEET A0.60 - ADA DIAGRAMS FOR ADDITIONAL MOUNTING HEIGHT DIMENSIONS



ENLARGED MECH SHAFT 0 1' 2' 4' 1/2" = 1'-0" **3**



WC 119 AND STAFF LOUNGE 0 1' 2' 4' 1/4" = 1'-0" **2**



MEN AND WMNS RESTROOM 0 1' 2' 4' 1/4" = 1'-0" **1**

INTERIOR ELEVATION GENERAL NOTES

1. UNO IN DRAWINGS OR SPEC FLOOR TILES TO BE 2X2 MATTE. WALL TILE TO BE 4X4 GLOSS IN UP TO 4 COLORS
2. ALL TILE T1 UNO
3. ALL WALLS GWB U.N.O ALLOW UP TO 4 COLORS PTD
4. PROVIDE N-TYPE COAT HOOK ON ALL PARTITION DOORS, AND ONE HOOK TO SIDE PARTITION AT 40 HIGH. EACH STALL TYP 1
5. PROVIDE P-TYPE COAT HOOKS IN EACH RESTROOM
6. SEE A8.00 FOR REFLECTED CEILING PLAN
7. SEE A9.10 FOR WALL ASSEMBLIES
8. SEE A9.40 FOR FINISH & BASE SCHEDULE
9. SEE SHEET A0.80 FOR MIN CLR DIMS OF PLUMBING FIXTURES & ACCESSIBILITY NOTES.
10. STAFF RESTROOM 119 TILE TO 4' ABOVE FLOOR
11. TILE ALL PUBLIC RESTRROOM WALLS FULL HEIGHT (ROOMS 112 109 113 129)
12. ALL FURN AND EQUIP SHOWN AS DASHED IN INTERIOR ELEVATIONS TYP. FURN AND EQUIP TO BE COORDINATED BY GC AND OWNER SUPPLIED. SEE SPEC
13. ALL BUILT-IN CABINET/ MILLWORK TO BE MULTI-PLY W/ P-LAM EDGE FINISH, FULL OVERLAY DOORS, EURO HINGE W/ 4" KICK PLATE
14. BLOCKING IN WALL TYPICAL FOR ALL AREAS W/ SHELVING AND SYS FURN
15. CROSS WALL TO DOOR HINGE EDGE TO BE 3" TYP UNO 1

INTERIOR ELEVATION KEYNOTES

1. FRAMELESS MIRROR
2. SEAT COVER/ TOILET PAPER DISPENSER
3. TRASH BIN
4. SOAP DISPENSER
5. GRAB BARS
6. SINK & FAUCET
7. TOILET
8. DRINKING FOUNTAIN
9. PLASTIC TOILET PARTITION
10. BUILT-IN SHELF / COUNTERTOP
11. FURNITURE & EQUIPMENT
12. PAPER TOWEL DISPENSER RECESSED
13. URINAL
14. CHANGING TABLE RECESSED
15. GARBAGE DISP
16. MICROWAVE OSCI
17. REFRIDGERATOR OSCI 1
18. COAT HOOK
19. SANITARY NAPKIN DISPENSER
20. SHELF

N
◁ W **ROOM** E ▷
S

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310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE: _____ 20 __
SUBMITTED BY :

DATE: _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE: _____ 20 __

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO.
6693

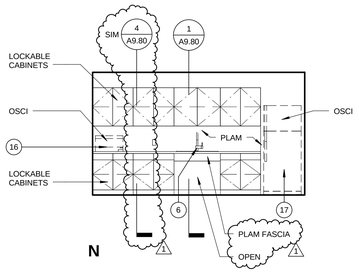
SHEET TITLE
ENLARGED PLANS

SHEET NO.
A6.00

SHEET OF

DWG. NO. - -

TITLE OF PROJECT:



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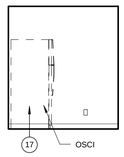

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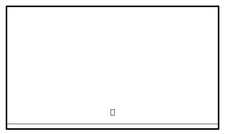
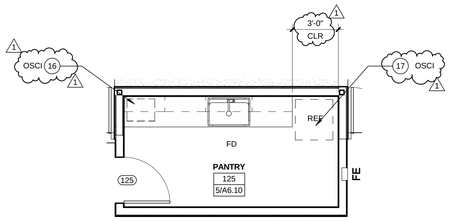


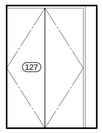
S

W

PANTRY 125 | 0 1' 2' 4' | 1/4" = 1'-0" | **5**



PANTRY 125 | 0 1' 2' 4' | 1/4" = 1'-0" | **2**



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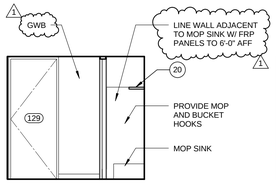

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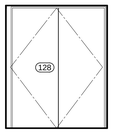

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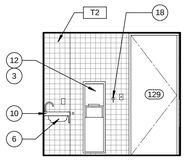
NOTE: SEE GRAPHICS DRAWINGS FOR SIGNAGE

HALLWAY 126 | 0 1' 2' 4' | 1/4" = 1'-0" | **4**



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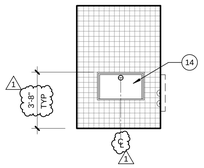

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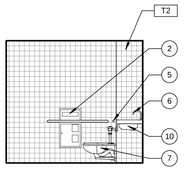

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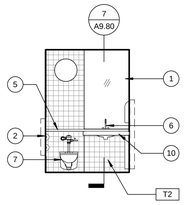
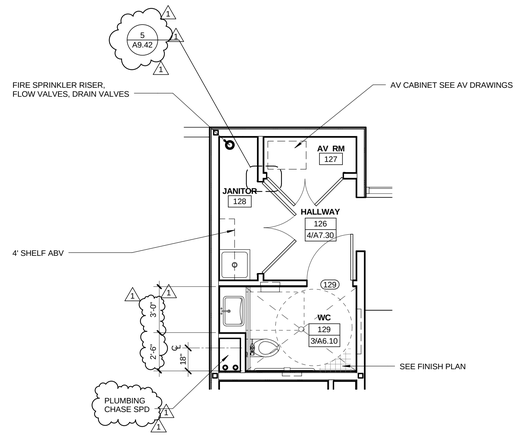


W

NOTE: SEE 4/ A6.00 FOR GRAB BAR NOTE

WC 129 | 0 1' 2' 4' | 1/4" = 1'-0" | **3**



WC129 | 0 1' 2' 4' | 1/4" = 1'-0" | **1**

INTERIOR ELEVATION GENERAL NOTES

1. UNO IN DRAWINGS OR SPEC FLOOR TILES TO BE 2X2 MATTE. WALL TILE TO BE 4X4 GLOSS IN UP TO 4 COLORS
2. ALL TILE T1 UNO
3. ALL WALLS GWB U.N.O ALLOW UP TO 4 COLORS PTD
4. PROVIDE N-TYPE COAT HOOK ON ALL PARTITION DOORS, AND ONE HOOK TO SIDE PARTITION AT 4'0 HIGH. EACH STALL TYP 1
5. PROVIDE P-TYPE COAT HOOKS IN EACH RESTROOM
6. SEE A8.00 FOR REFLECTED CEILING PLAN
7. SEE A9.10 FOR WALL ASSEMBLIES
8. SEE A9.40 FOR FINISH & BASE SCHEDULE
9. SEE SHEET A0.80 FOR MIN CLR DIMS OF PLUMBING FIXTURES & ACCESSIBILITY NOTES.
10. STAFF RESTROOM 119 TILE TO 4' ABOVE FLOOR
11. TILE ALL PUBLIC RESTRROOM WALLS FULL HEIGHT (ROOMS 112 109 113 129)
12. ALL FURN AND EQUIP SHOWN AS DASHED IN INTERIOR ELEVATIONS TYP. FURN AND EQUIP TO BE COORDINATED BY GC AND OWNER SUPPLIED. SEE SPEC
13. ALL BUILT-IN CABINET/ MILLWORK TO BE MULTI-PLY W/ P-LAM EDGE FINISH, FULL OVERLAY DOORS, EURO HINGE W/ 4" KICK PLATE
14. BLOCKING IN WALL TYPICAL FOR ALL AREAS W/ SHELVING AND SYS FURN
15. CROSS WALL TO DOOR HINGE EDGE TO BE 3" TYP UNO 1

INTERIOR ELEVATION KEYNOTES

1. FRAMELESS MIRROR
2. SEAT COVER/ TOILET PAPER DISPENSER
3. TRASH BIN
4. SOAP DISPENSER
5. GRAB BARS
6. SINK & FAUCET
7. TOILET
8. DRINKING FOUNTAIN
9. PLASTIC TOILET PARTITION
10. BUILT-IN SHELF / COUNTERTOP
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12. PAPER TOWEL DISPENSER RECESSED
13. URINAL
14. CHANGING TABLE RECESSED
15. GARBAGE DISP
16. MICROWAVE OSCI
17. REFRIDGERATOR OSCI 1
18. COAT HOOK
19. SANITARY NAPKIN DISPENSER
20. SHELF

△ N
◁ W **ROOM** E ▷
S ▽

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DRAWING NO. **6693**

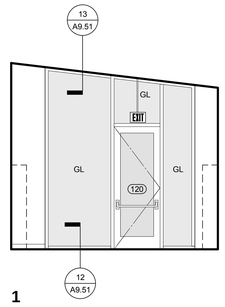
SHEET TITLE
ENLARGED PLANS

SHEET NO.
A6.10

SHEET OF

DWG. NO. - -

TITLE OF PROJECT :



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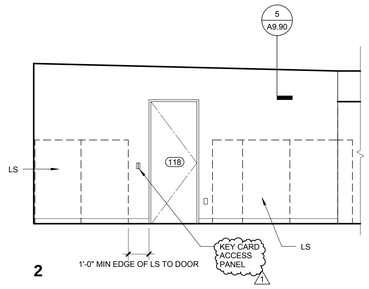

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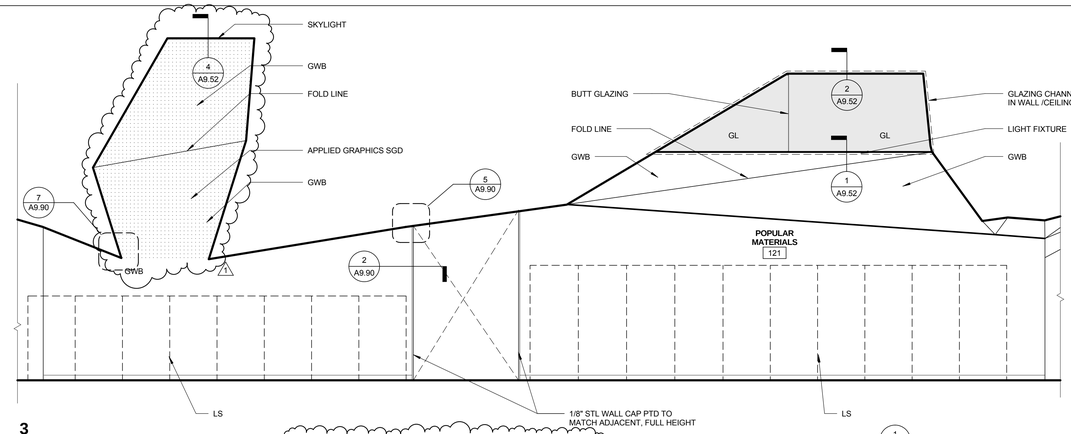

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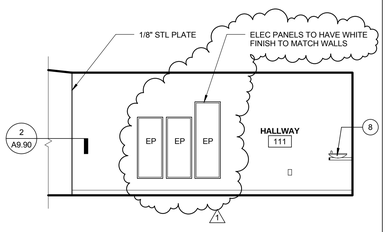

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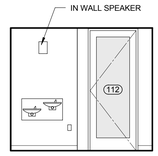

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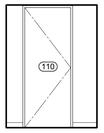

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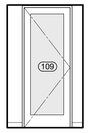

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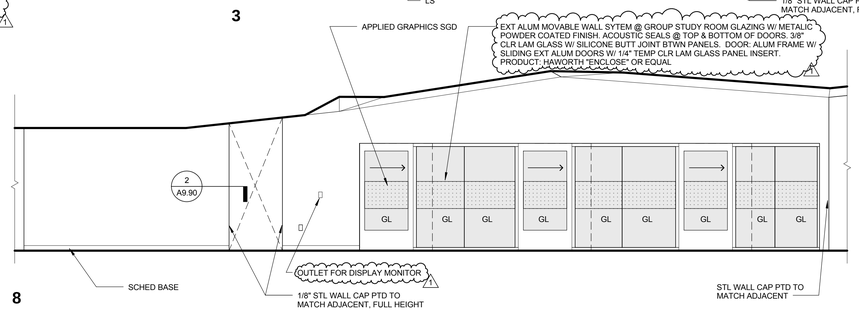

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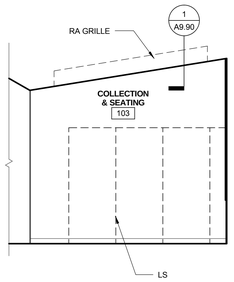

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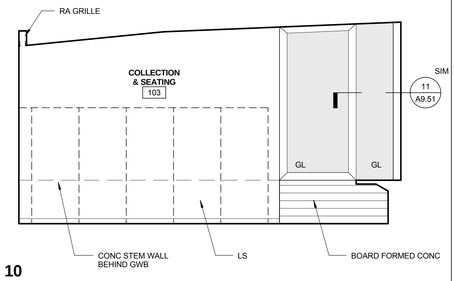

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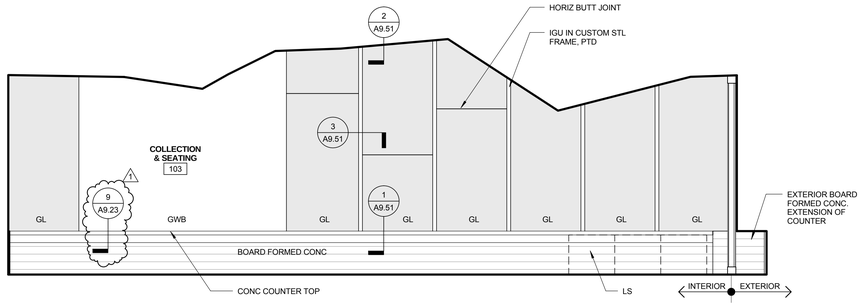

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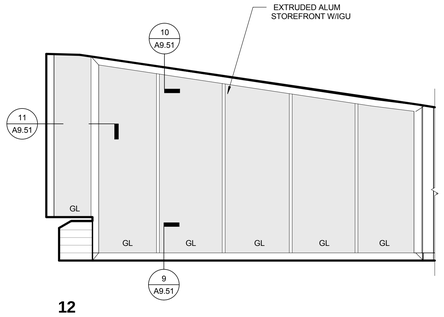

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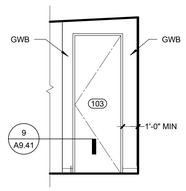

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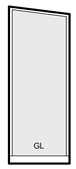

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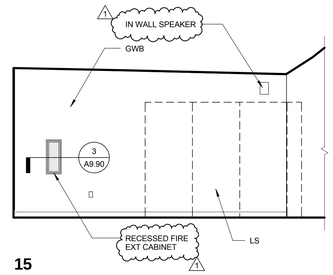

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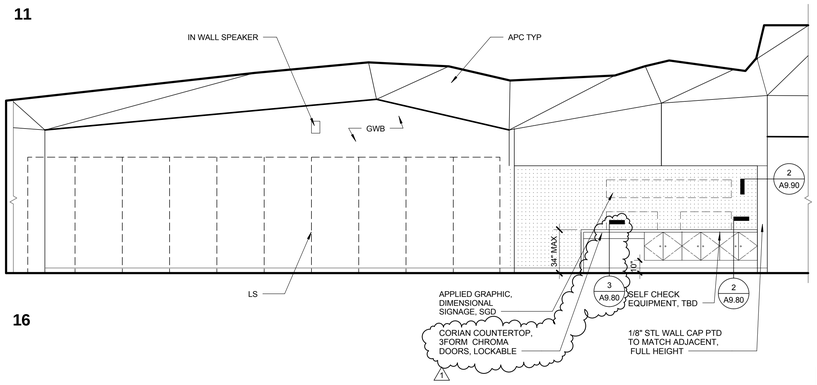

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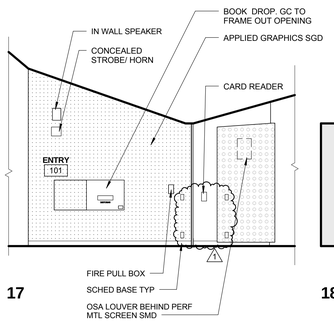

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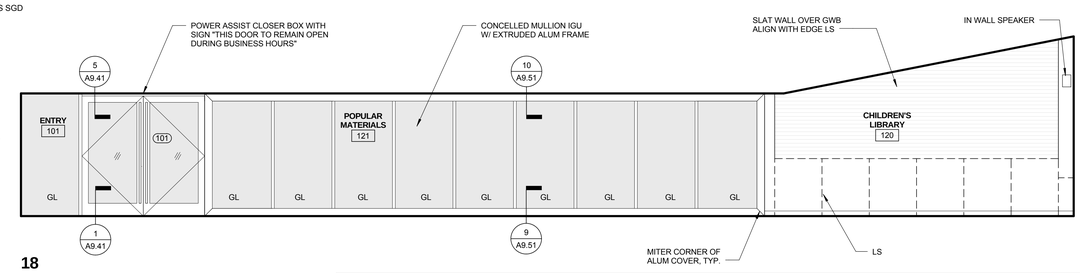

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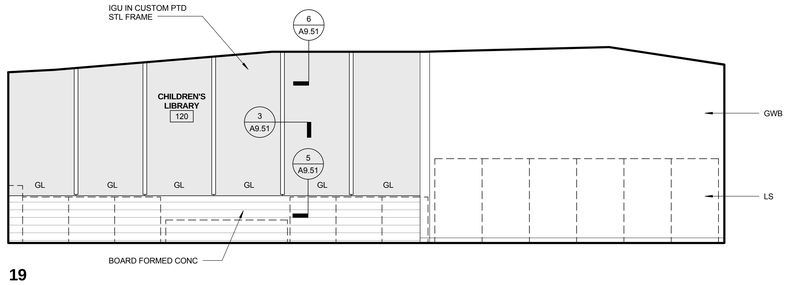

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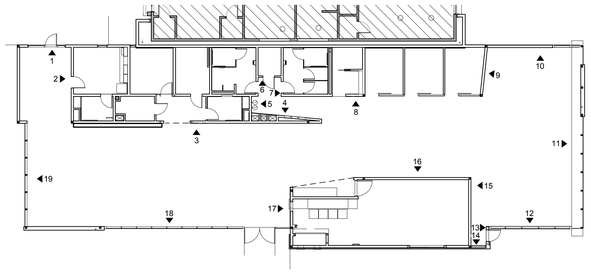
KEY PLAN



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15. GARBAGE DISP
16. MICROWAVE OSCI
17. REFRIDGERATOR OSCI
18. COAT HOOK
19. SANITARY NAPKIN DISPENSER
20. SHELF

N
W ROOM E
S

NOTE:

LIBRARY SHELVING (LS) SHOWN AS DASHED IS TO BE BID BY CITY SELECTED VENDOR. PURCHASE CONTRACT WILL BE ASSIGNED TO GC. SEE SPECIFICATION SECTION 011000, 012100

GC TO PROVIDE ELECTRICAL HOOK UP JBOX BELOW RAF FOR SHELVING MOUNTED LIGHTING AS PER ELEC DWGS

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PROJECT

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APPROVED BY : Miriam Mulder, Architecture Services Manager — DATE : 20

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INTERIOR ELEVATIONS

SHEET NO.
A7.00

SHEET OF

DWG NO. -

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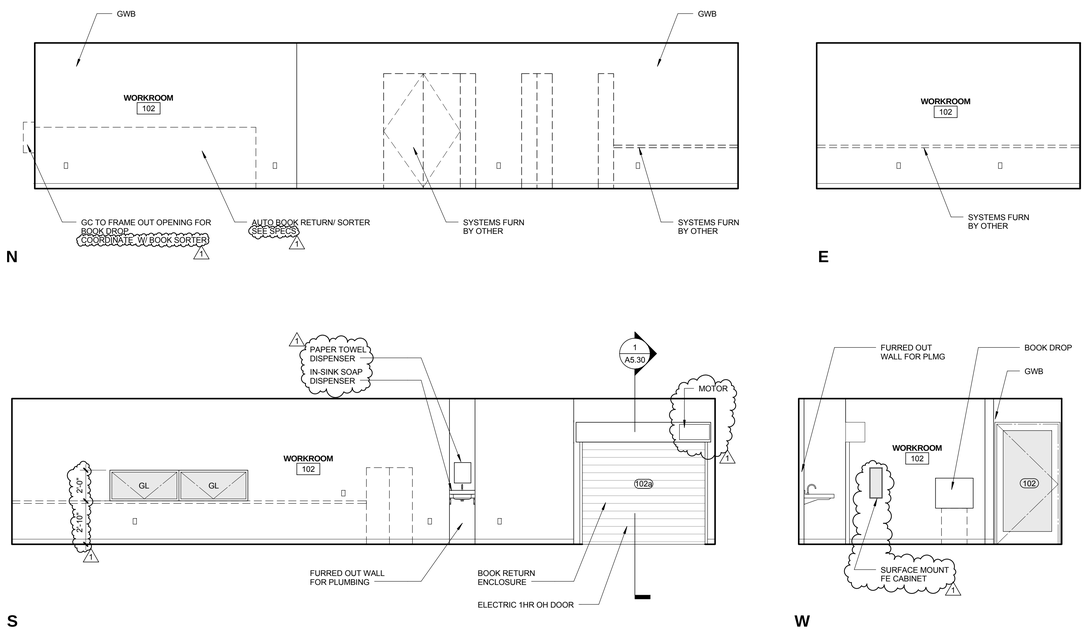
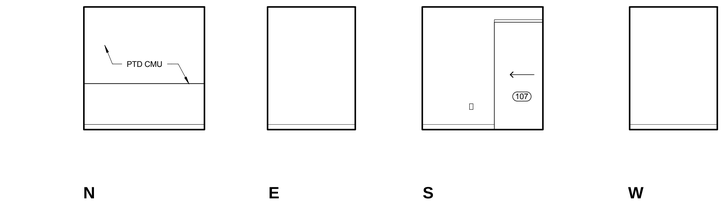
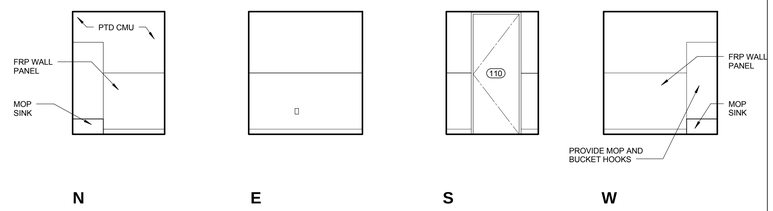


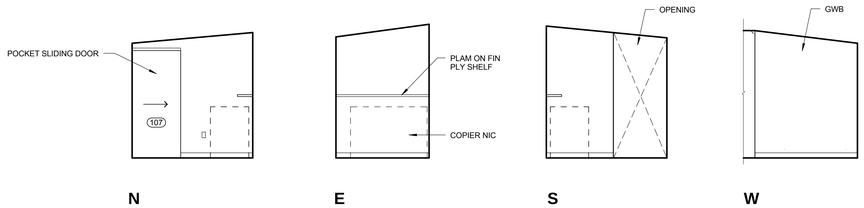
WORKROOM 102 | 0 1' 2' 4' | 1/4" = 1'-0" | 8



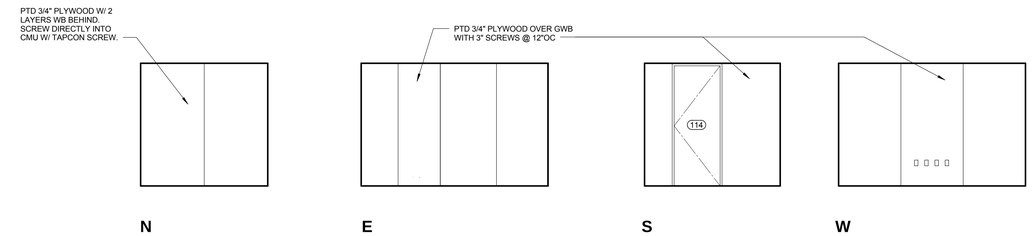
STOR 107 | 0 1' 2' 4' | 1/4" = 1'-0" | 4



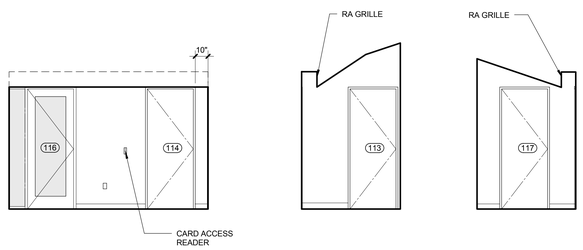
JANITOR 110 | 0 1' 2' 4' | 1/4" = 1'-0" | 3



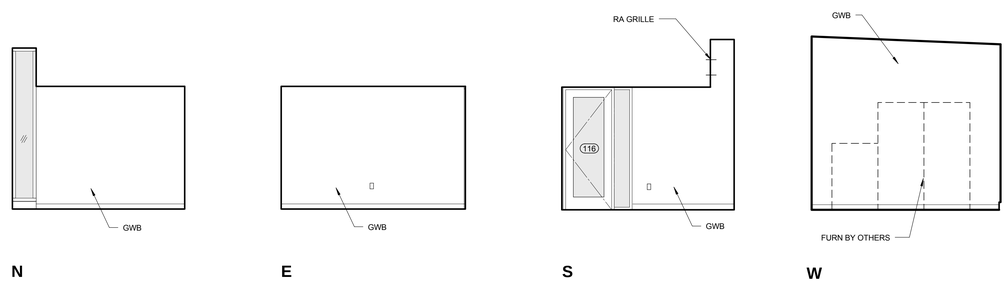
COPY RM 108 | 0 1' 2' 4' | 1/4" = 1'-0" | 7



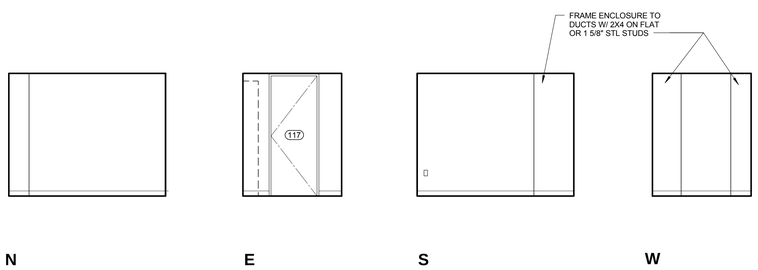
IT ROOM 114 | 0 1' 2' 4' | 1/4" = 1'-0" | 2



HALLWAY 115 | 0 1' 2' 4' | 1/4" = 1'-0" | 6



BRANCH MANAGER 116 | 0 1' 2' 4' | 1/4" = 1'-0" | 1



STOR 117 | 0 1' 2' 4' | 1/4" = 1'-0" | 5

INTERIOR ELEVATION NOTES

1. UNO IN DRAWINGS OR SPEC FLOOR TILES TO BE 2X2 MATTE. WALL TILE TO BE 4X4 GLOSS IN UP TO 4 COLORS
2. ALL TILE T1 UNO
3. ALL WALLS GWB U.N.O ALLOW UP TO 4 COLORS PTD
4. PROVIDE N-TYPE COAT HOOK ON ALL PARTITION DOORS, AND ONE HOOK TO SIDE PARTITION AT 4'0 HIGH. EACH STALL TYP
5. PROVIDE P-TYPE COAT HOOKS IN EACH RESTROOM
6. SEE A8.00 FOR REFLECTED CEILING PLAN
7. SEE A9.10 FOR WALL ASSEMBLIES
8. SEE A9.40 FOR FINISH & BASE SCHEDULE
9. SEE SHEET A0.80 FOR MIN CLR DIMS OF PLUMBING FIXTURES & ACCESSIBILITY NOTES.
10. STAFF RESTROOM 119 TILE TO 4' ABOVE FLOOR
11. TILE ALL PUBLIC RESTRROOM WALLS FULL HEIGHT (ROOMS 112 109 113 129)
12. ALL FURN AND EQUIP SHOWN AS DASHED IN INTERIOR ELEVATIONS TYP. FURN AND EQUIP TO BE COORDINATED BY GC AND OWNER SUPPLIED. SEE SPEC
13. ALL BUILT-IN CABINET/ MILLWORK TO BE MULTI-PLY W/ P-LAM EDGE FINISH, FULL OVERLAY DOORS, EURO HINGE W/ 4" KICK PLATE
14. BLOCKING IN WALL TYPICAL FOR ALL AREAS W/ SHELVING AND SYS FURN
15 CROSS WALL TO DOOR HINGE EDGE TO BE 3" TYP UNO

INTERIOR ELEVATION KEYNOTES

1. FRAMELESS MIRROR
2. SEAT COVER/ TOILET PAPER DISPENSER
3. TRASH BIN
4. SOAP DISPENSER
5. GRAB BARS
6. SINK & FAUCET
7. TOILET
8. DRINKING FOUNTAIN
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13. URINAL
14. CHANGING TABLE RECESSED
15. GARBAGE DISP
16. MICROWAVE OSCI
17. REFRIDGERATOR OSCI
18. COAT HOOK
19. SANITARY NAPKIN DISPENSER
20. SHELF

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SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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1	02/21/12		ADDENDUM 2

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ISSUE
ADDENDUM 2

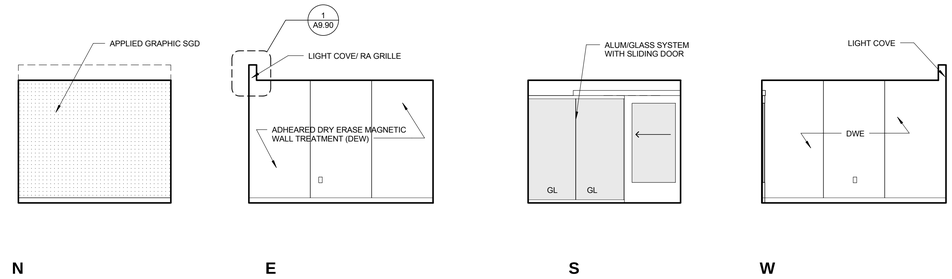
DATE
02/21/2012

DRAWING NO.
6693

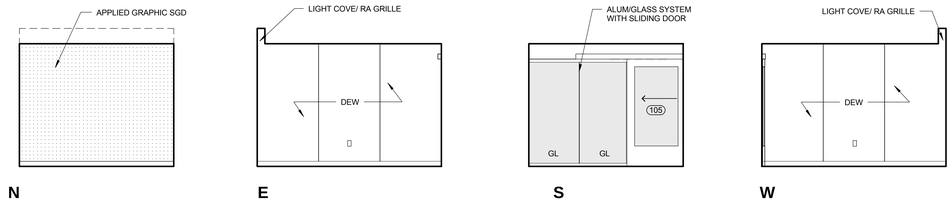
SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A7.10

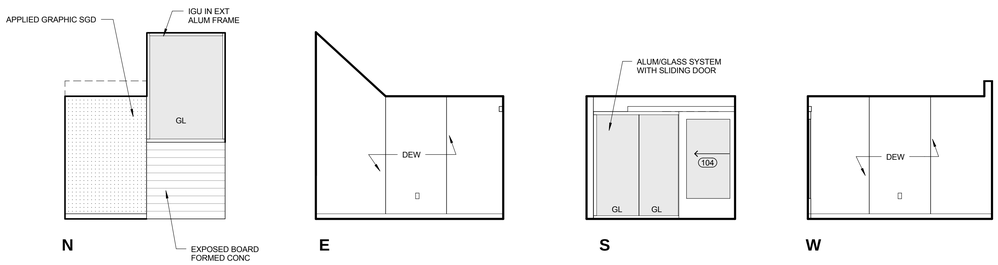
SHEET OF
DWG NO. -
TITLE OF PROJECT:



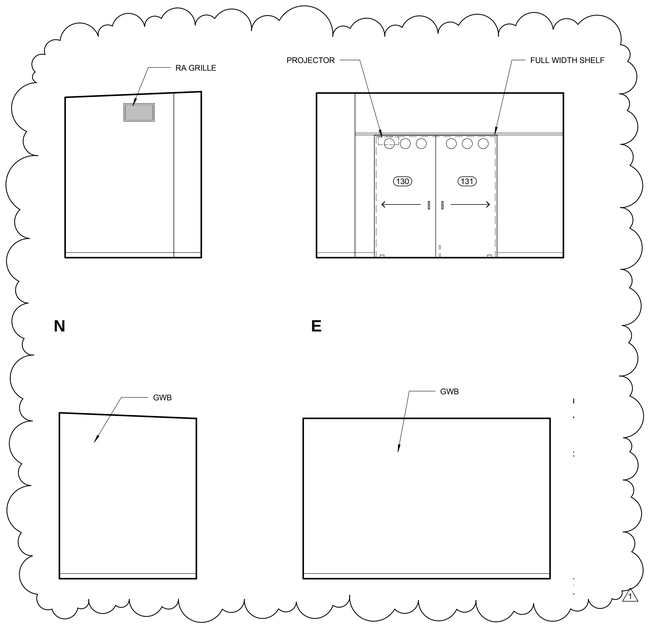
GROUP STUDY A 106 | 0 1' 2' 4' | 1/4" = 1'-0" | 7



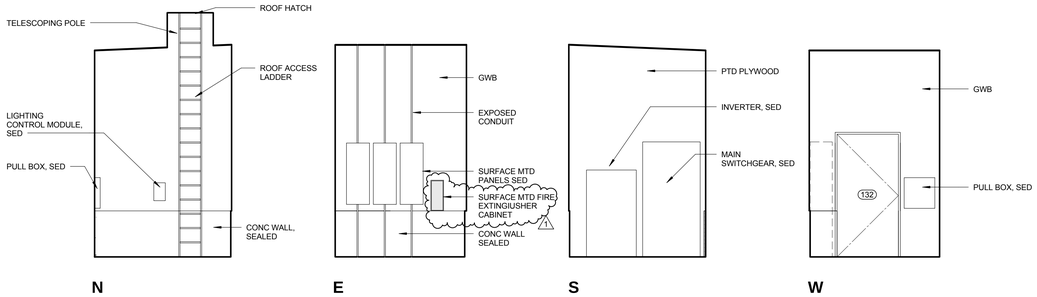
GROUP STUDY B 105 | 0 1' 2' 4' | 1/4" = 1'-0" | 6



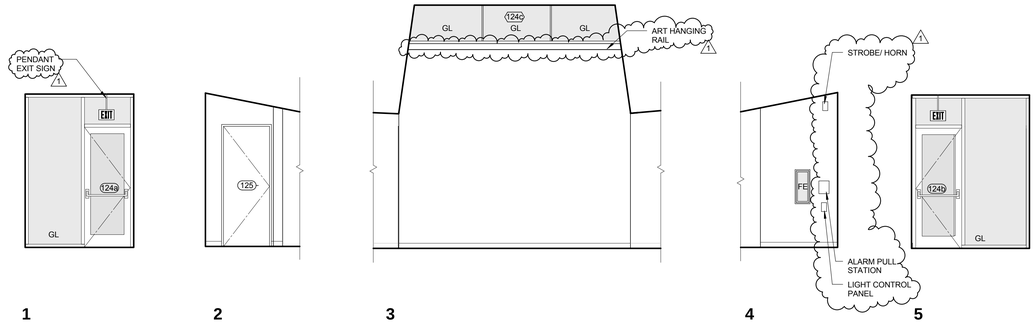
GROUP STUDY C 104 | 0 1' 2' 4' | 1/4" = 1'-0" | 5

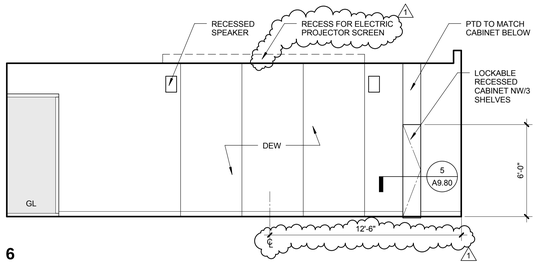


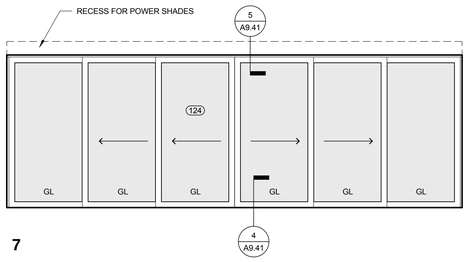
STOR 130 | 0 1' 2' 4' | 1/4" = 1'-0" | 3

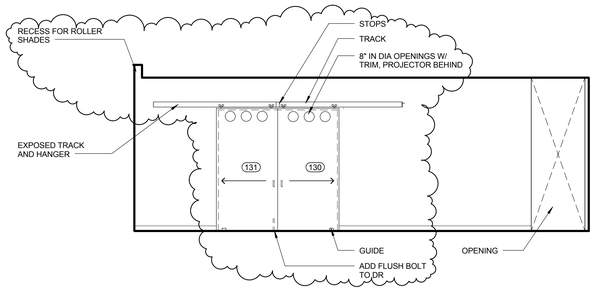


ELEC RM 132 | 0 1' 2' 4' | 1/4" = 1'-0" | 2

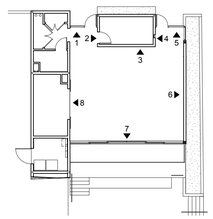








KEY PLAN



COMMUNITY RM 124 | 0 4' 8' 16' | 1/16" = 1'-0" | 1

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1. UNO IN DRAWINGS OR SPEC FLOOR TILES TO BE 2X2 MATTE. WALL TILE TO BE 4X4 GLOSS IN UP TO 4 COLORS
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INTERIOR ELEVATION KEYNOTES

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17. REFRIDGERATOR OSCI
18. COAT HOOK
19. SANITARY NAPKIN DISPENSER
20. SHELF

N
W ROOM E
S

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APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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1	02/21/12		ADDENDUM 2

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ISSUE
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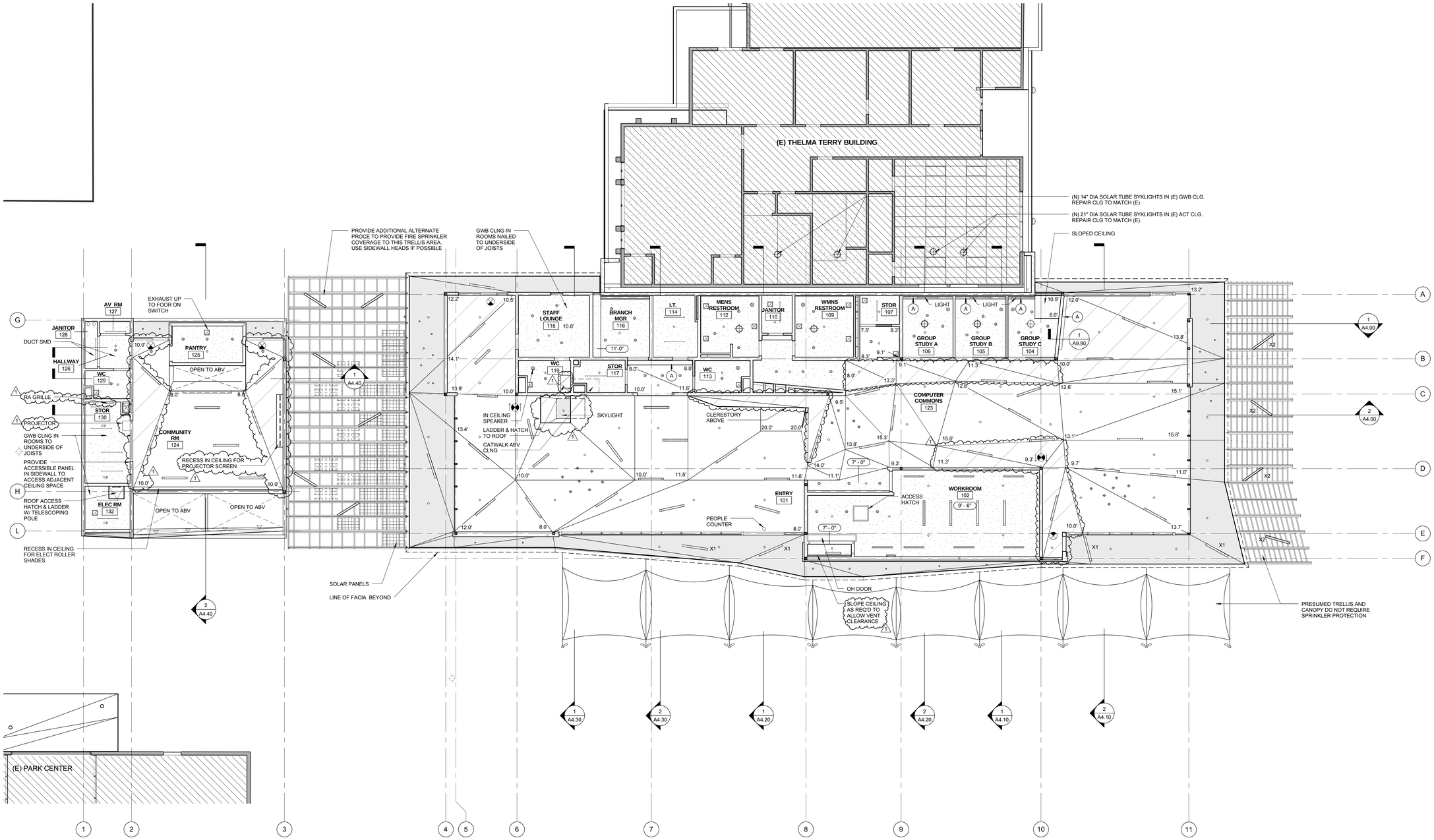
DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A7.20

SHEET OF
DWG. NO. - -
TITLE OF PROJECT



REFLECTED CEILING PLAN

0 2' 4' 8' 1/8" = 1'-0" **2**

FIRE SPRINKLER NOTES

SPRINKLER HEADS INDICATED ARE FOR GUIDANCE FOR DESIGN/ BUILD SUB-CONTRACTOR. SUB-CONTRACTOR TO REVIEW LAYOUT & CEILING CONDITION & DESIGN SYSTEM FOR CODE COMPLIANCE USING THIS LAYOUT AS A GUIDE SYSTEM TO INCLUDE.

NOTE:
ATTIC/ CONCEALED SPACE ABOVE CEILING TO BE SPRINKLERED (COMBUSTIBLE CONSTRUCTION). ALL WOOD STUD WALLS EXTENDING BELOW RAISED ACCESS FLOOR TO BE COVERED WITH SHEET METAL AND OR GWB TO AVOID ANY SPRINKLER REQUIREMENTS BELOW RAISED ACCESS FLOOR.
ALL SPRINKLER HEADS TO BE CONCEALED UNO.

FIRE SPRINKLER LEGEND

- CONCEALED SPRINKLER HEAD
- SIDEWALL SPRINKLER
- P PENDANT SPRINKLER

RCP LEGEND

- RECESSED LINEAR T5 FLUORESCENT DOWNLIGHT W/ 2 LED ACCENT LIGHTS
- RECESSED LINEAR T5 FLUORESCENT DOWNLIGHT
- SURFACE MOUNTED LED UPLIGHT OR DOWNLIGHT
- RECESSED LED DOWNLIGHT
- WALL MOUNTED FIXTURE
- PENDANT MOUNTED T5 FLUORESCENT STRIPLIGHT
- PENDANT MOUNTED COMPACT FLUORESCENT
- SOLAR TUBE
- RECESSED DOWNLIGHT
- REGISTER
- REGISTER
- CEILING SPEAKER

NOTE: SEE ELECTRICAL PLANS AND LIGHTING FIXTURE SCHEDULE FOR CLARIFICATION

REFLECTED CEILING PLAN LEGEND

- GYP WALL BD, PTD
- EXT GYP BD SOFFIT, PTD
- ACOUSTIC PLASTER
- ACOUSTIC PLASTER ON GWB
- TECTUM

REFLECTED CEILING PLAN NOTES

1. ALL CEILINGS 8'-0" UNO TYP.
2. SOLARTUBE SKYLIGHTS (4) TO BE ADDED TO (E) T.T BUILDING. LOCATE BETWEEN (E) ROOF JOISTS (32" OC), LOCATE SO SKYLIGHTS ARE CENTERED ON EXISTING T.T CLASSROOM ACT GRID & AVOID (E) LIGHTS.
3. LOCATE (N) LIGHTS IN RESTROOMS TO AVOID (E) LIGHTS & SOFFIT AREA OF CLG (E) CLG IS GWB @ T.T.

(A) RECESS FOR R.A., SMD

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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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DATE
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DRAWING NO.
6693

SHEET TITLE
REFLECTED CEILING PLAN

SHEET NO.
A8.10

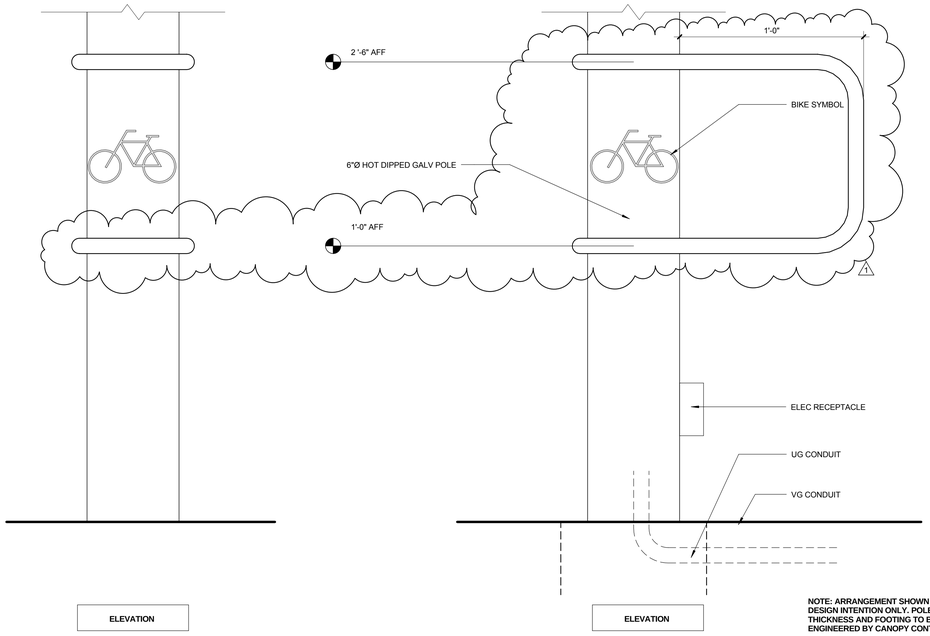
SHEET OF
DWG NO. -
TITLE OF PROJECT

SHEET OF

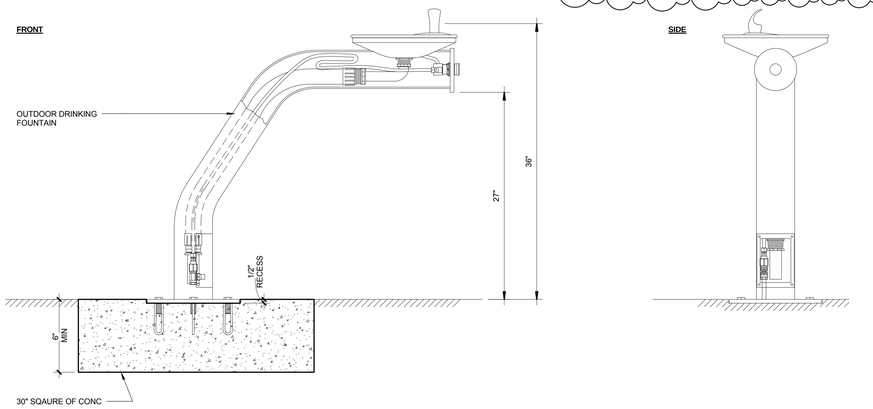
DWG. NO. -

MATERIAL ABBREVIATIONS

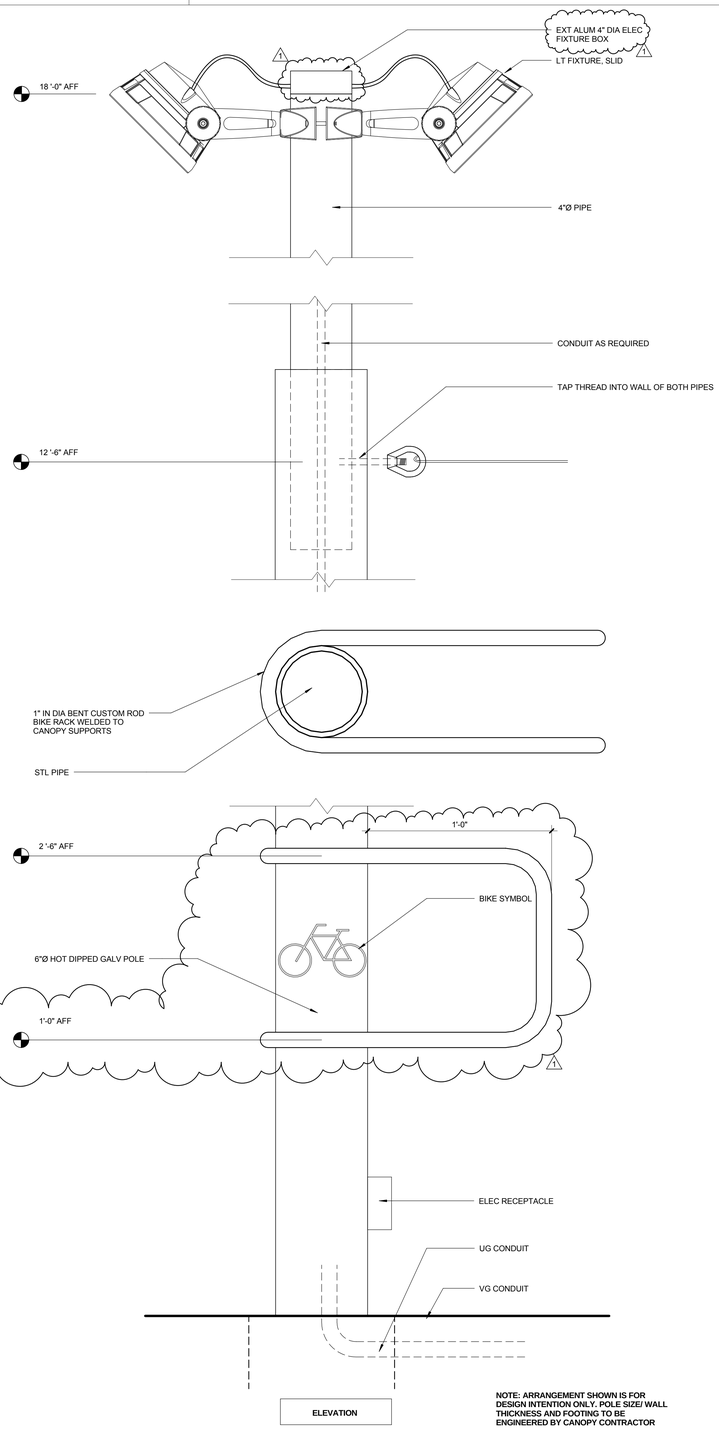
AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
PB	PROTECTION BOARD
PCP	PRE-CAST CONCRETE PLANKS
RAF	RAISED ACCESS FLOOR SYSTEM
RD	ROOF DRAIN
RPU	ROOFING PLYWOOD UNDERLAY
SAWM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



TYPICAL GUARDRAIL 0 2" 4" 6" 8" 1 1/2" = 1'-0" **3**



DRINKING FOUNTAIN 0 1" 2" 4" 1 1/2" = 1'-0" **2**



NOTE: ARRANGEMENT SHOWN IS FOR DESIGN INTENTION ONLY. POLE SIZE/ WALL THICKNESS AND FOOTING TO BE ENGINEERED BY CANOPY CONTRACTOR

BIKE POLE 0 1" 2" 4" 3" = 1'-0" **1**

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DATE
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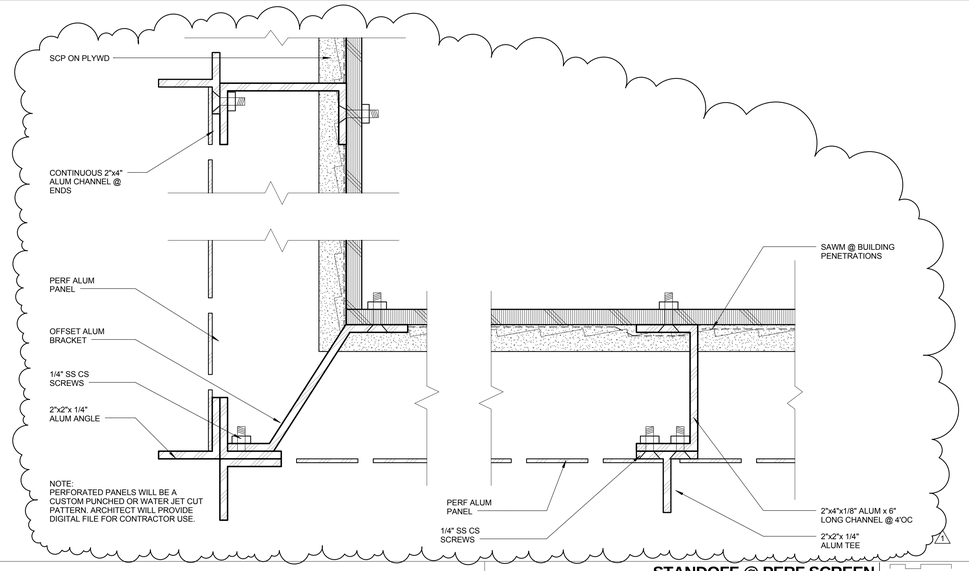
DRAWING NO. **6693**

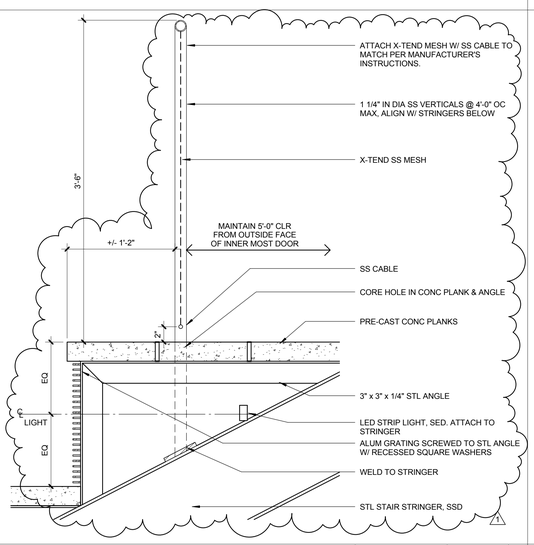
SHEET TITLE
SITE DETAILS

SHEET NO.
A9.00



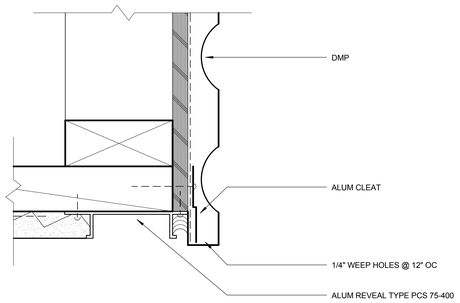
STANDOFF @ PERF SCREEN

0 1/2" 1" 2" | 6" = 1'-0" | 9



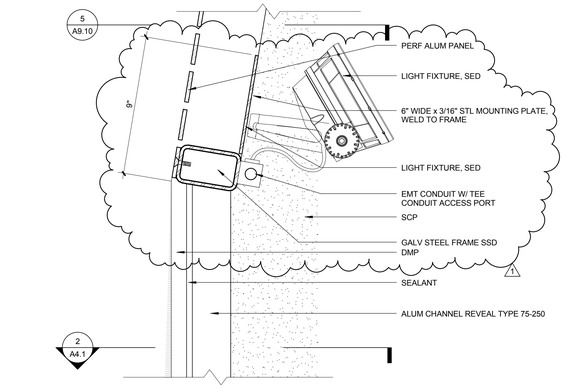
GUARDRAIL @ COMMUNITY RM

0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 11



SOFFIT @ MTL PANEL

0 1/2" 1" 2" | 6" = 1'-0" | 8

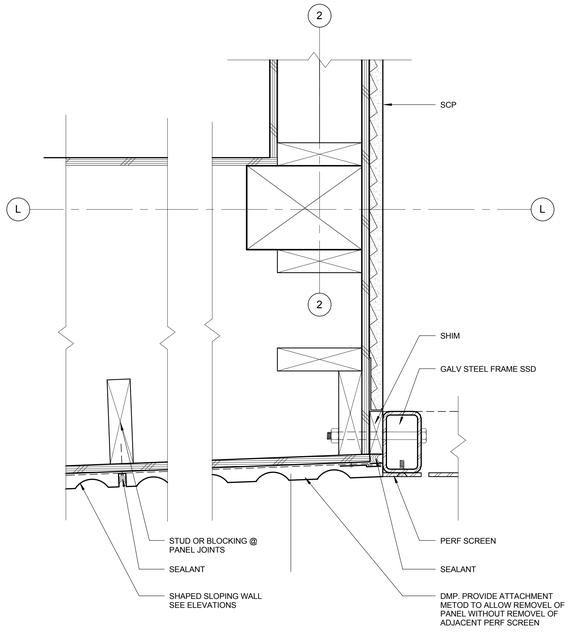


PERF SCREEN DETAIL @ COMMUNITY RM

0 1" 2" 4" | 3" = 1'-0" | 6

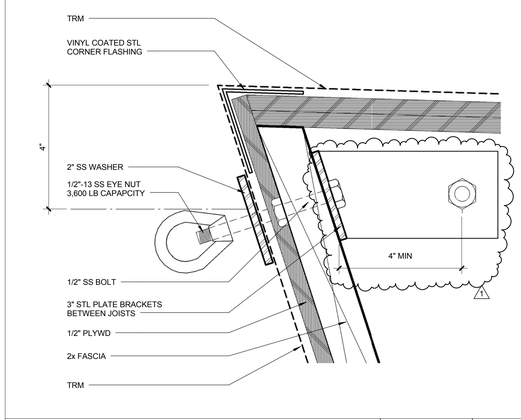
MATERIAL ABBREVIATIONS

AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
PB	PROTECTION BOARD
PCP	PRE-CAST CONCRETE PLANKS
RAF	RAISED ACCESS FLOOR SYSTEM
RD	ROOF DRAIN
RPU	ROOFING PLYWOOD UNDERLAY
SAWM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER/1
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



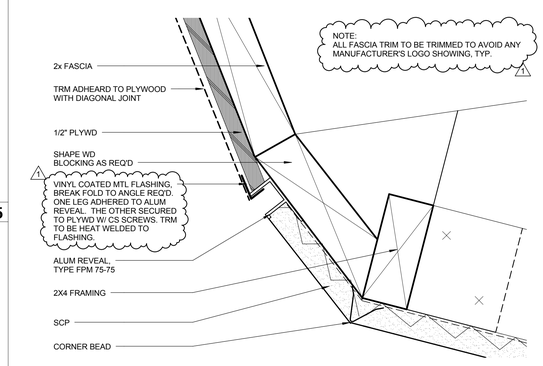
DIMPLED PANEL TRANSITION TO PERF - PLAN

0 1" 2" 4" | 3" = 1'-0" | 5



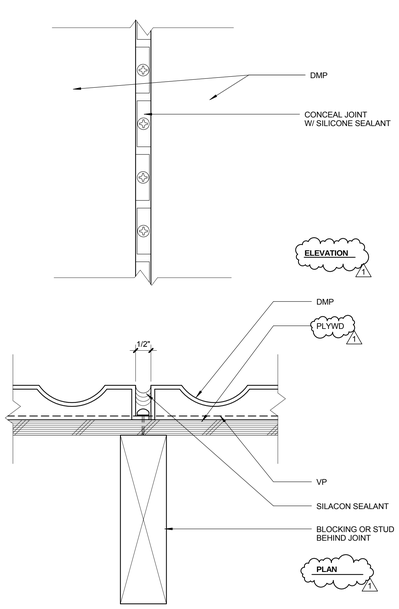
CANOPY @ FASCIA

0 1/2" 1" 2" | 6" = 1'-0" | 3



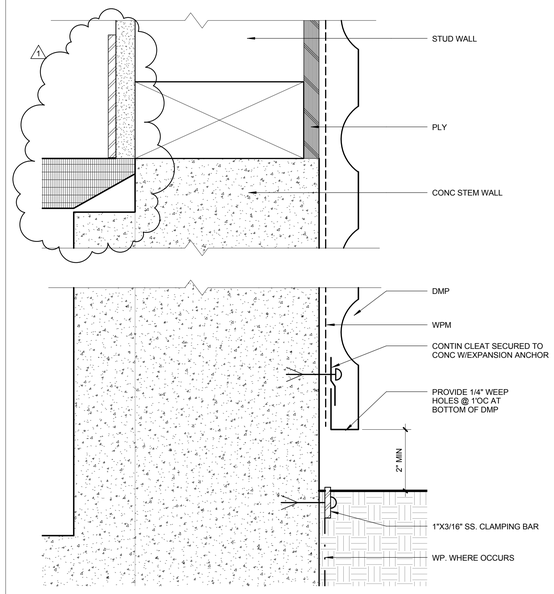
FASCIA @ SOFFIT

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



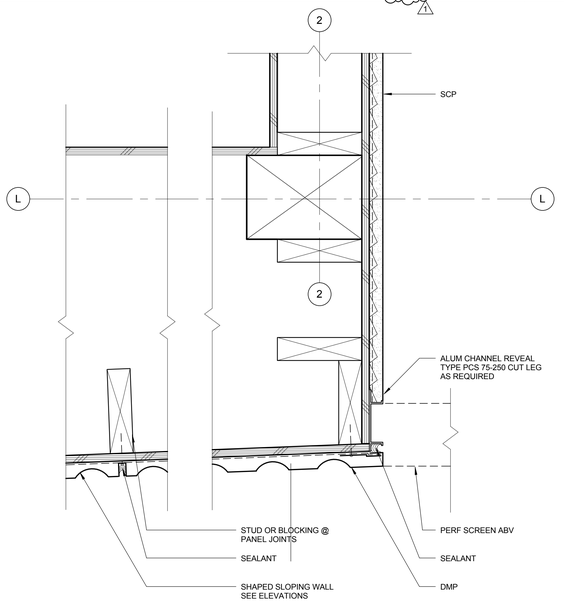
MTL PANEL ZIPPER JOINT

0 1/2" 1" 2" | 6" = 1'-0" | 10



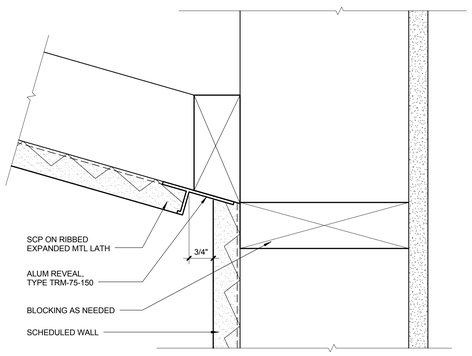
MTL PANEL

0 1/2" 1" 2" | 6" = 1'-0" | 7



DIMPLED PANEL TRANSITION TO STUCCO - PLAN

0 1" 2" 4" | 3" = 1'-0" | 4



SOFFIT @ WALL

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

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ARCHITECT'S PROJECT NO.
1001

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architecture@smgov.net

DATE : 20
SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO.
6693

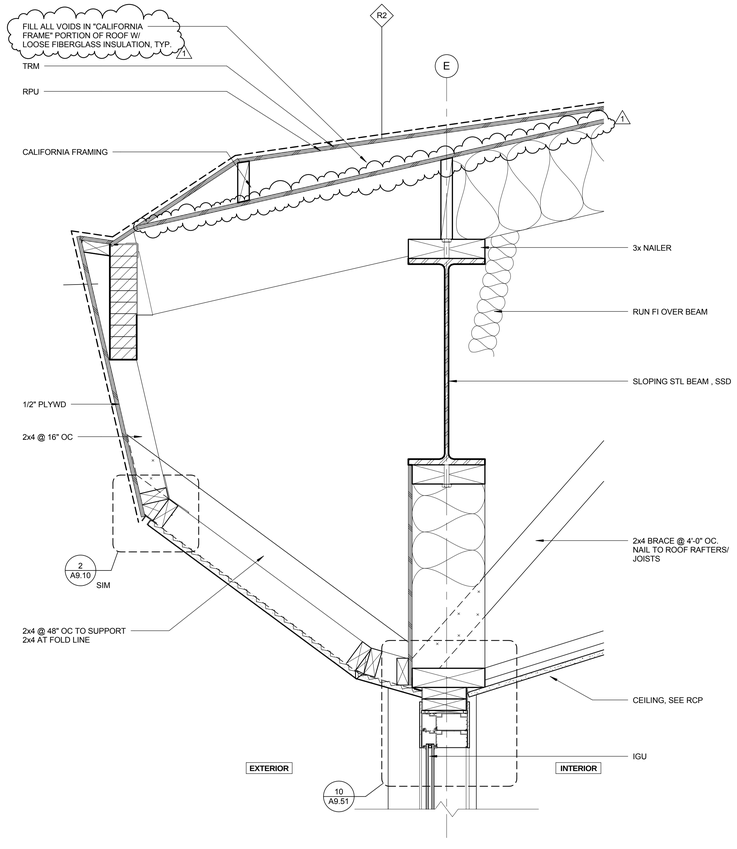
SHEET TITLE
EXTERIOR DETAILS

SHEET NO.
A9.10

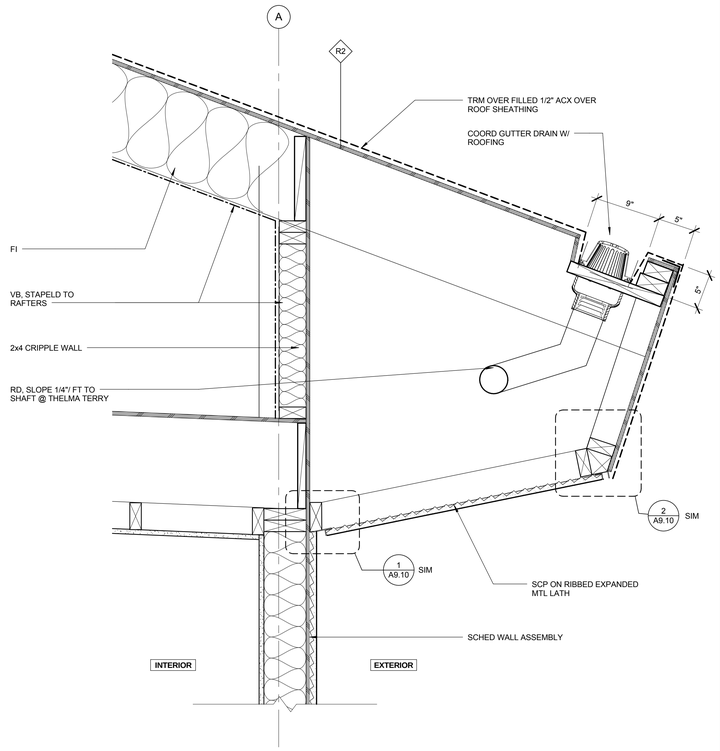
SHEET 0F

DWG NO. -

TITLE OF PROJECT:



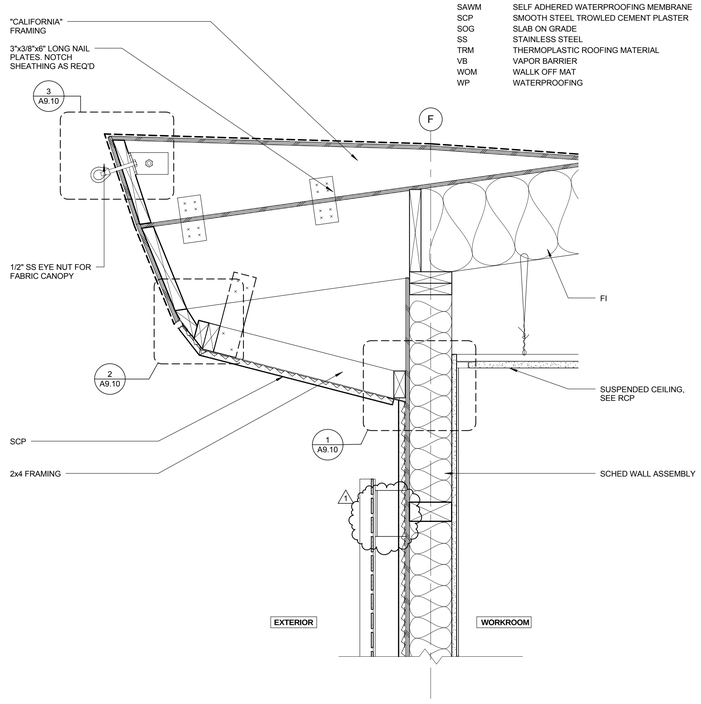
ROOF @ CHILDRENS LIBRARY 0 2" 4" 6" 8" 1 1/2" = 1'-0" 6



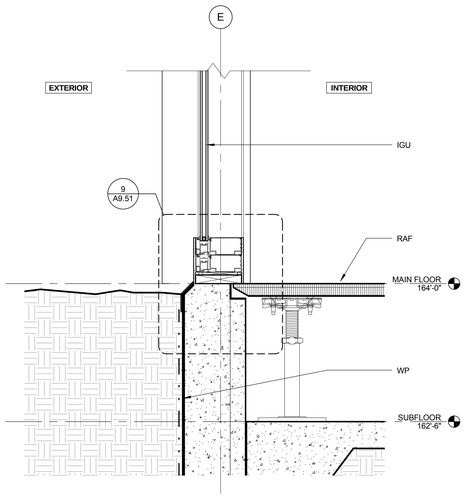
ROOF @ STAFF LOUNGE 0 2" 4" 6" 8" 1 1/2" = 1'-0" 4

MATERIAL ABBREVIATIONS

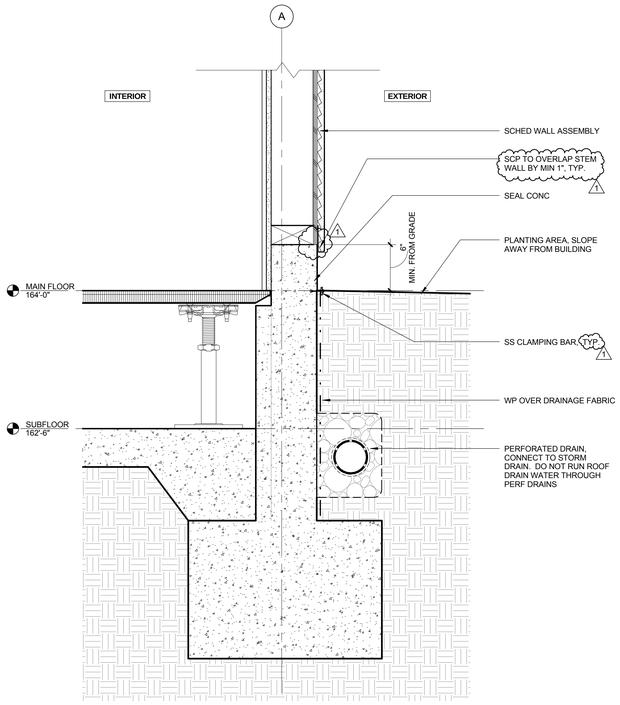
AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
PB	PROTECTION BOARD
PCP	PRE-CAST CONCRETE PLANKS
RAF	RAISED ACCESS FLOOR SYSTEM
RD	ROOF DRAIN
RPU	ROOFING PLYWOOD UNDERLAY
SAVM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



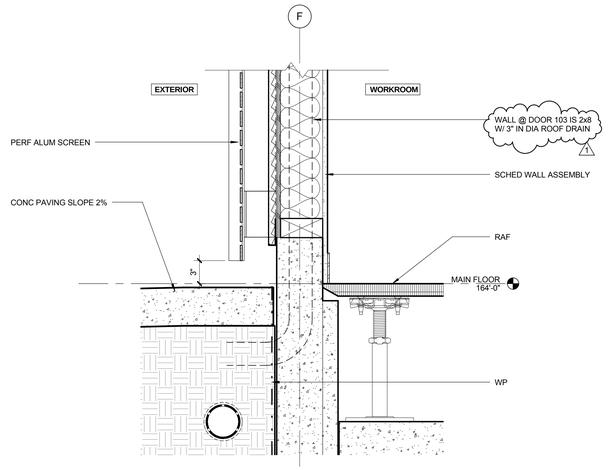
ROOF @ WORK ROOM 0 2" 4" 6" 8" 1 1/2" = 1'-0" 2



GLAZING @ RAISED FLOOR 0 2" 4" 6" 8" 1 1/2" = 1'-0" 5



FLOOR @ STAFF LOUNGE 0 2" 4" 6" 8" 1 1/2" = 1'-0" 3



FLOOR @ WORK ROOM 0 2" 4" 6" 8" 1 1/2" = 1'-0" 1

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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/12

DRAWING NO. **6693**

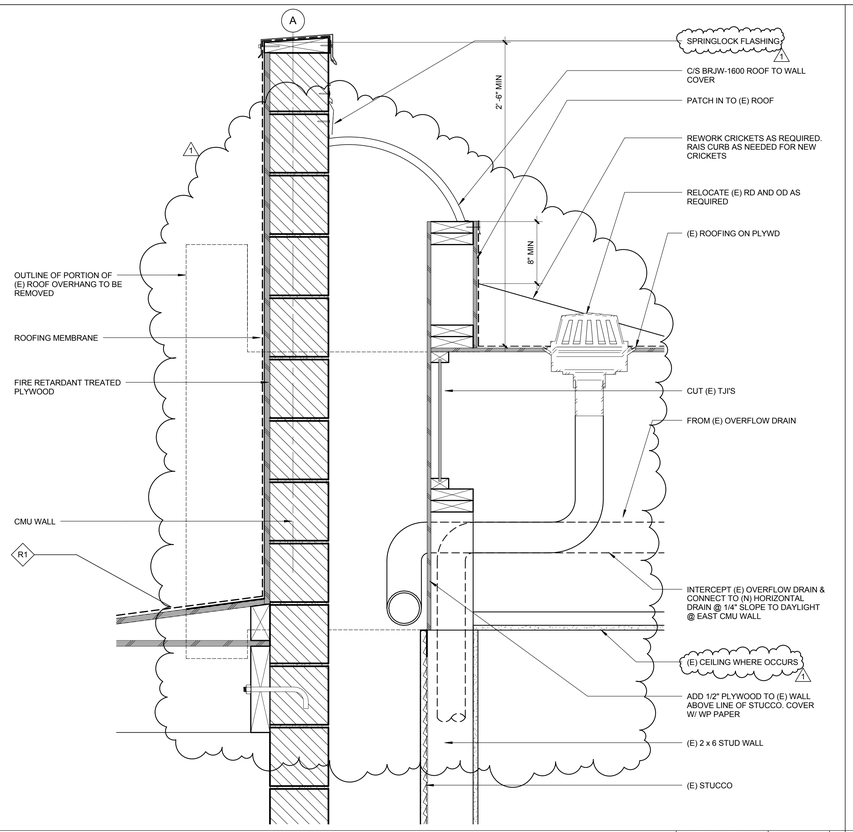
SHEET TITLE
WALL/ ROOF/
FLOOR DETAILS

SHEET NO.
A9.20

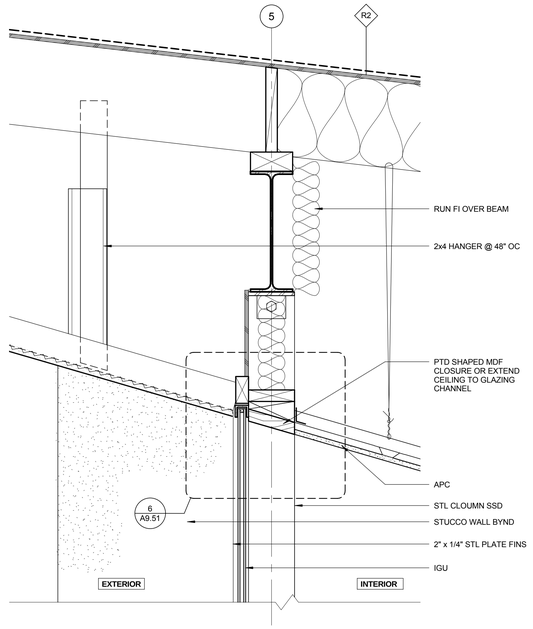
SHEET OF

DWG. NO. -

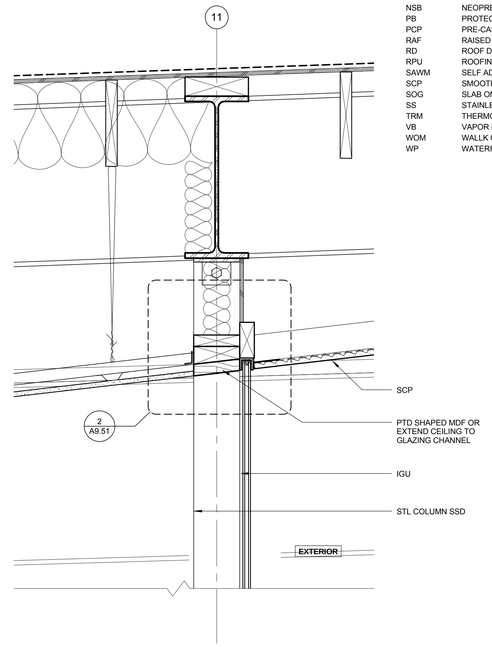
TITLE OF PROJECT:



PARAPET @ THELMA TERRY 0 2" 4" 6" 8" 1 1/2" = 1'-0" **6**



GLAZING HEAD @ WEST LIBRARY1 0 2" 4" 6" 8" 1 1/2" = 1'-0" **4**



GLAZING HEAD @ EAST LIBRARY 0 2" 4" 6" 8" 1 1/2" = 1'-0" **2**

MATERIAL ABBREVIATIONS

AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
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SOG	SLAB ON GRADE
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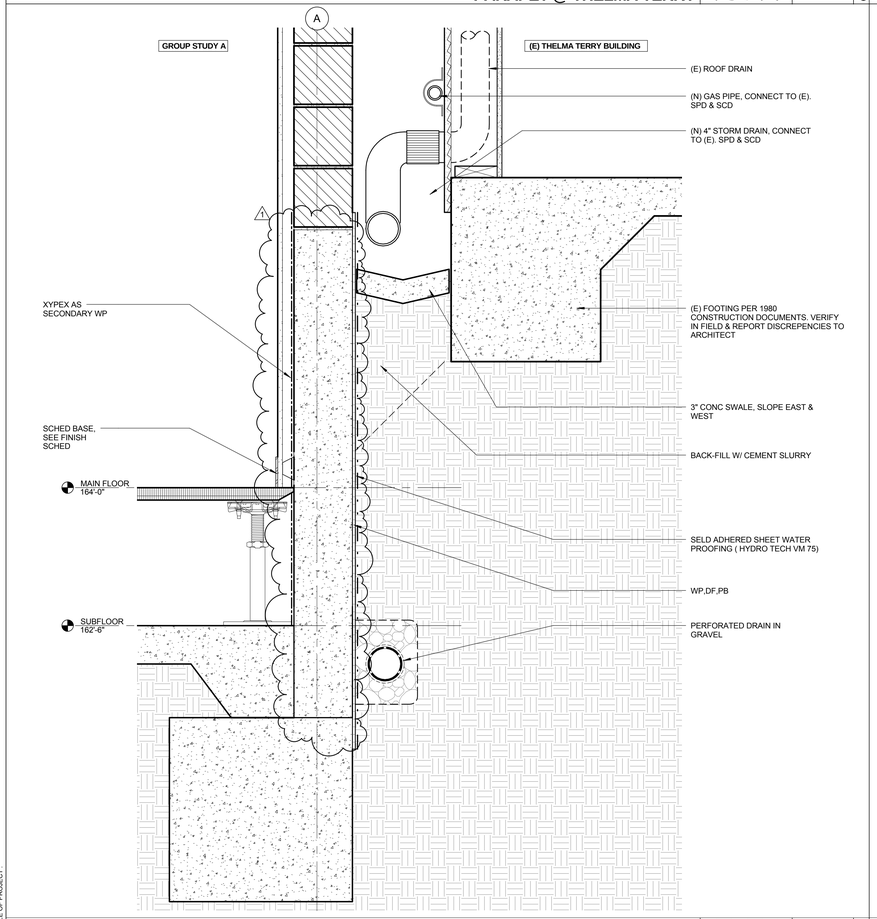
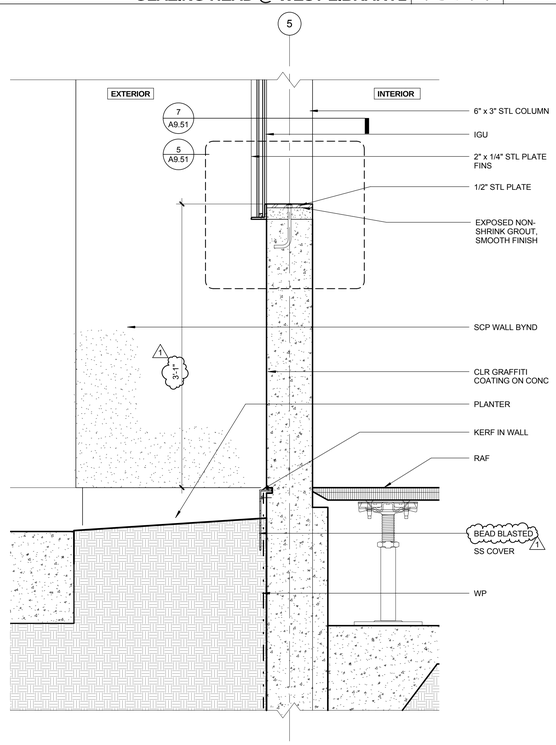
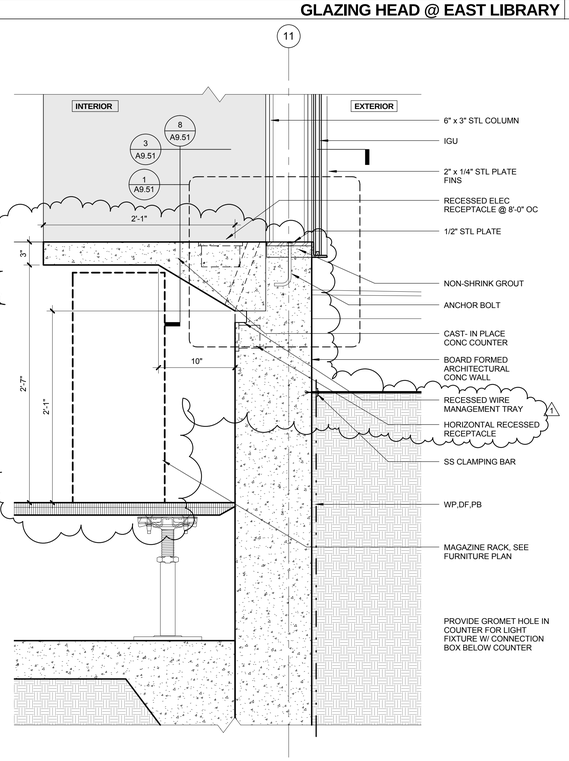
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



FLOOR @ THELMA TERRY 0 2" 4" 6" 8" 1 1/2" = 1'-0" **5**



GLAZING SILL @ WEST LIBRARY 0 2" 4" 6" 8" 1 1/2" = 1'-0" **3**



CONC COUNTER @ GLAZING 0 2" 4" 6" 8" 1 1/2" = 1'-0" **1**

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DATE
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DRAWING NO. **6693**

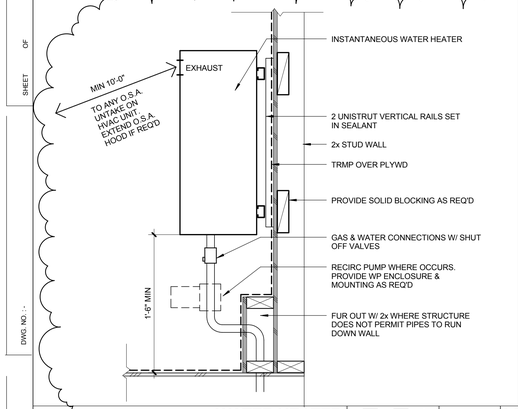
SHEET TITLE
WALL / ROOF/
FLOOR DETAILS

SHEET NO.
A9.21

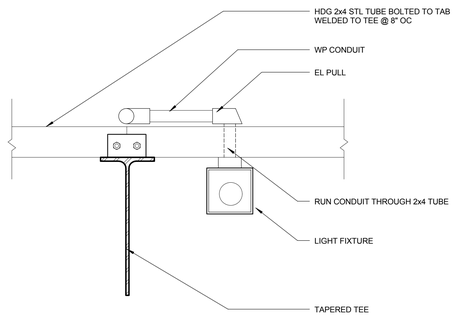
SHEET OF

DWG NO. - -

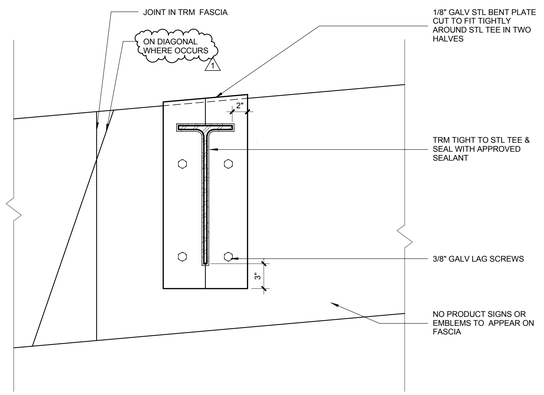
TITLE OF PROJECT :



WATER HEATER 0 2" 4" 6" 8" 1 1/2" = 1'-0" **14**



LIGHT @ TRELLIS 0 2" 4" 6" 8" 1 1/2" = 1'-0" **15**



FASCIA @ TRELLIS TEES 0 2" 4" 6" 8" 1 1/2" = 1'-0" **7**

MATERIAL ABBREVIATIONS

AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
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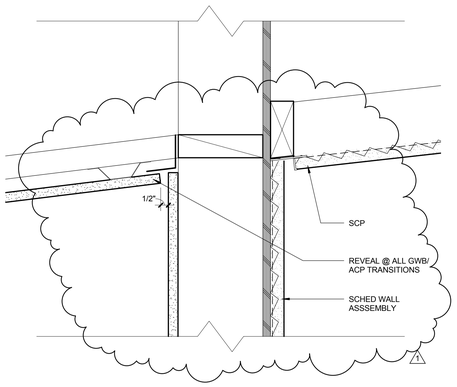
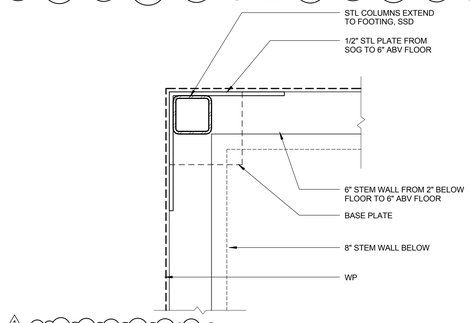
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING

NOTE:

ALL SCREWS, NAILS, ETC ATTACHING TO SM FLASHINGS AT ROOF TO BE UNIFORMLY & EVENLY SPACED AT ALL LOCATIONS VISIBLE FROM GRADE, AND TO BE INSTALLED AS FLUSH AS POSSIBLE TO MINIMIZE TELESCOPING THROUGH ROOFING



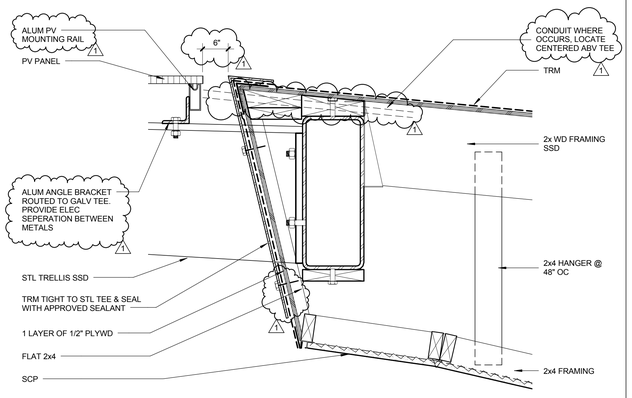
GWB @ CEILING 0 1" 2" 4" 3" = 1'-0" **12**



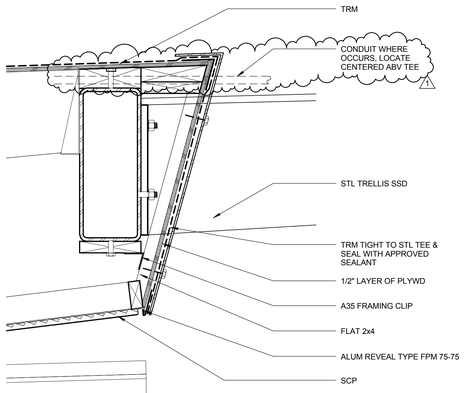
NOTE:
TYPICAL CONDITION FOR ALL STL COLUMNS IN EXTERIOR CONC STEM WALLS. CORNER CONDITION SHOWN.

SEE STRUCTURAL DRAWINGS FOR REBAR REQUIREMENTS & WELDING TO STL COLUMNS.

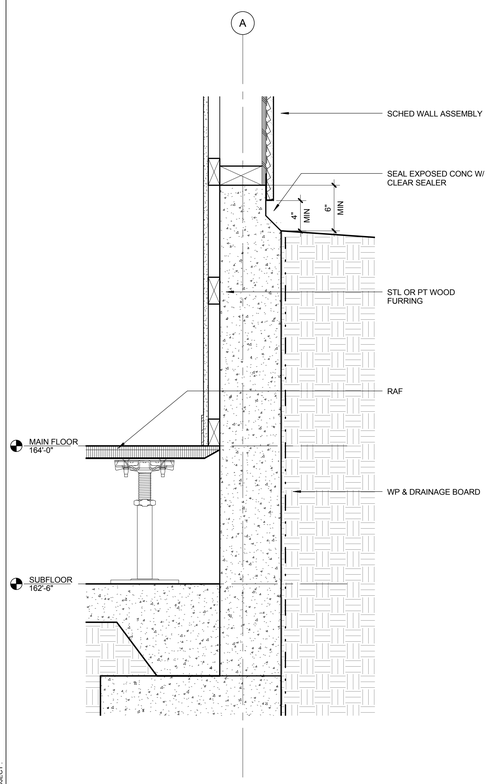
TYP. STL COLUMN @ STEM WALL 0 2" 4" 6" 8" 1 1/2" = 1'-0" **10**



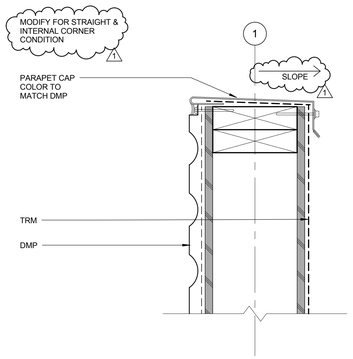
TRELLIS @ WEST LIBRARY 0 2" 4" 6" 8" 1 1/2" = 1'-0" **6**



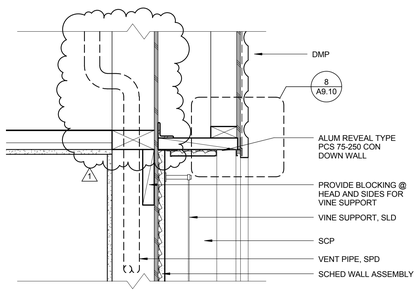
TRELLIS @ EAST LIBRARY 0 2" 4" 6" 8" 1 1/2" = 1'-0" **3**



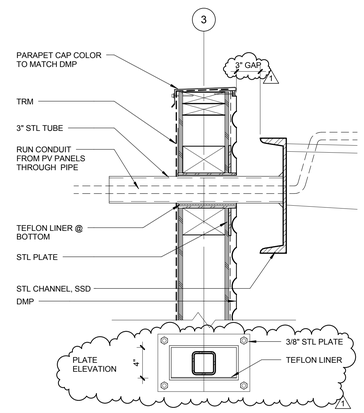
FLOOR @ COLLECTION 0 2" 4" 6" 8" 1 1/2" = 1'-0" **11**



PARAPET @ WEST COMMUNITY RM 0 1" 2" 4" 3" = 1'-0" **9**

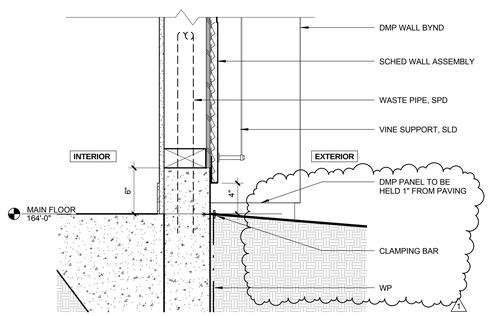


WALL @ NORTH COMMUNITY RM 0 2" 4" 6" 8" 1 1/2" = 1'-0" **5**

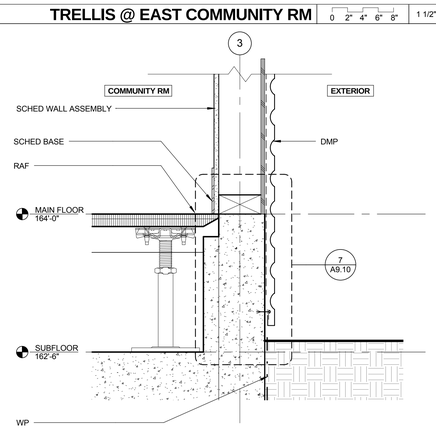


TRELLIS @ EAST COMMUNITY RM 0 2" 4" 6" 8" 1 1/2" = 1'-0" **2**

FLOOR @ WEST COMMUNITY RM 0 2" 4" 6" 8" 1 1/2" = 1'-0" **8**



FLOOR @ NORTH COMMUNITY RM 0 2" 4" 6" 8" 1 1/2" = 1'-0" **4**



FLOOR @ EAST COMMUNITY RM 0 2" 4" 6" 8" 1 1/2" = 1'-0" **1**

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DATE : 20
SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

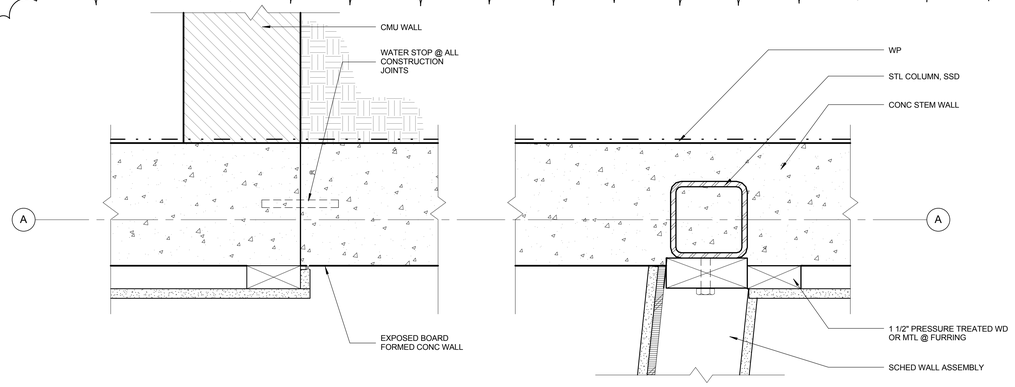
SHEET TITLE
WALL/ ROOF/
FLOOR DETAILS

SHEET NO.
A9.22

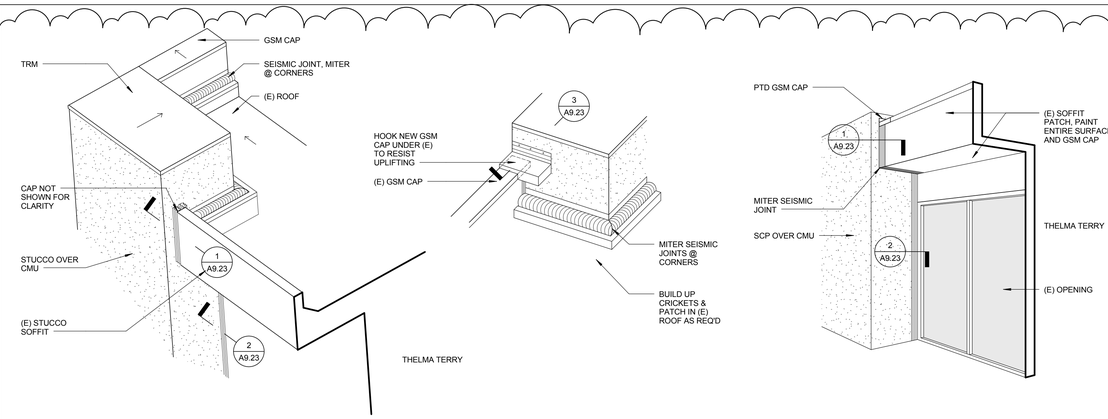
SHEET OF

DWG. NO. -

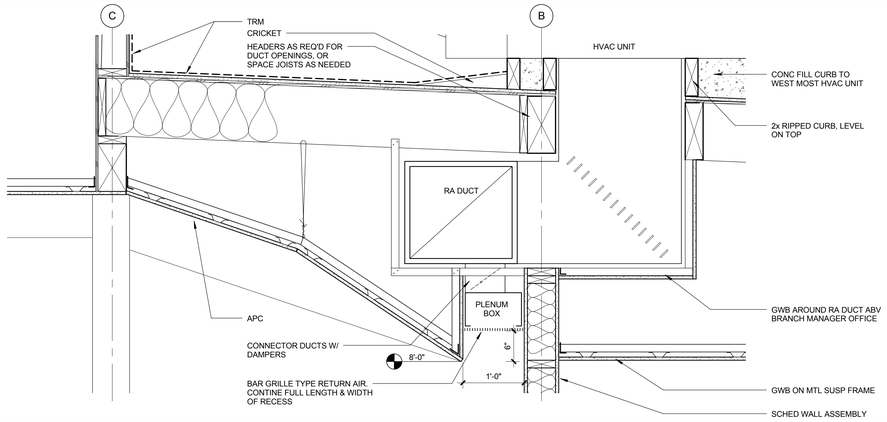
TITLE OF PROJECT :



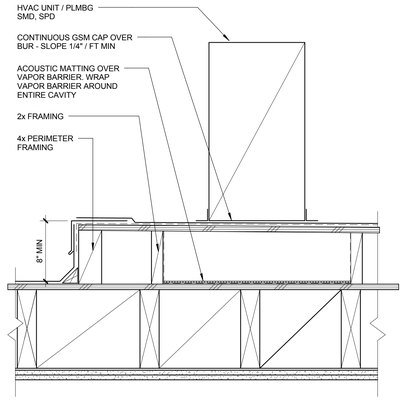
STEM WALL @ WNDW 104 0 1" 2" 4" 3" = 1'-0" **12**



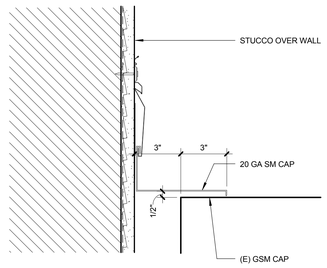
SEISMIC JOINT 4



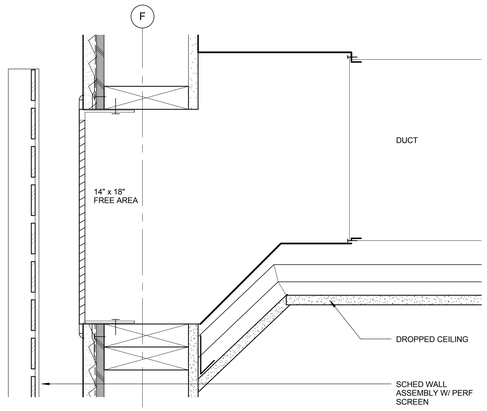
RETURN AIR @ HALLWAY 0 3" 6" 1' 1" = 1'-0" **11**



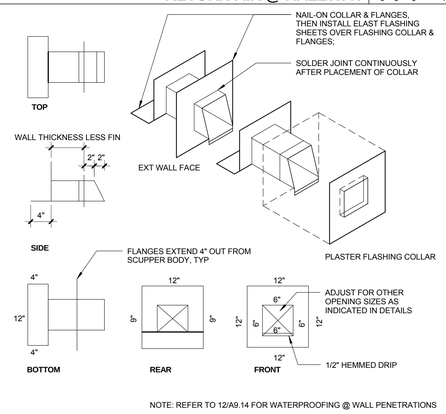
MECH PLATFORM 0 2" 4" 6" 8" 1 1/2" = 1'-0" **7**



SEISMIC JOINT @ FASCIA 0 1" 2" 4" 3" = 1'-0" **3**

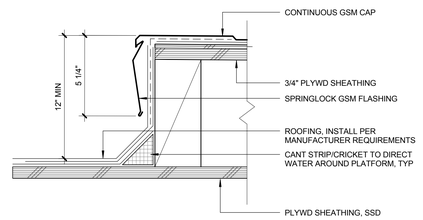


VENT @ PERF SCREEN 0 1" 2" 4" 3" = 1'-0" **14**



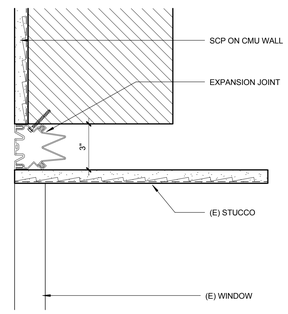
NOTE: REFER TO 12/A9.14 FOR WATERPROOFING @ WALL PENETRATIONS

FLASHING COLOR 0 3" 6" 1' 1" = 1'-0" **10**



NOTE: PROVIDE 4" FLASHING BACKING PLATE @ CORNERS

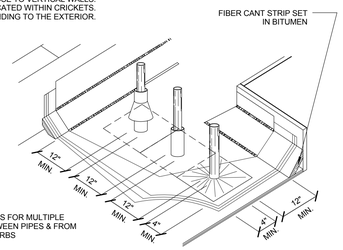
MECH PLATFORM EDGE 0 1" 2" 4" 3" = 1'-0" **6**



TYPE A

SEISMIC JOINT @ WALL 0 1" 2" 4" 3" = 1'-0" **2**

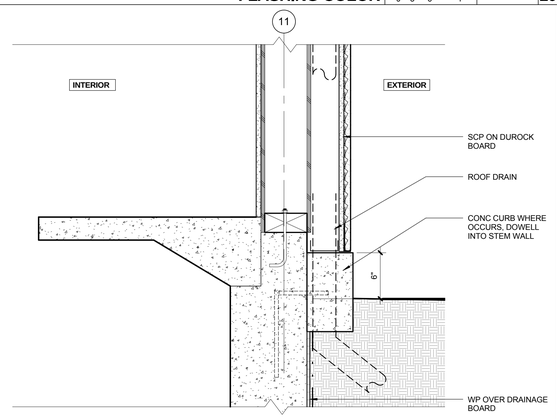
CONTRACTOR SHALL LOCATE & RELOCATE ALL PLUMBING LINES THAT ARE:
1. TOO CLOSE TO VERTICAL WALLS.
2. LOCATED WITHIN CRICKETS.
3. NOT EXTENDING TO THE EXTERIOR.



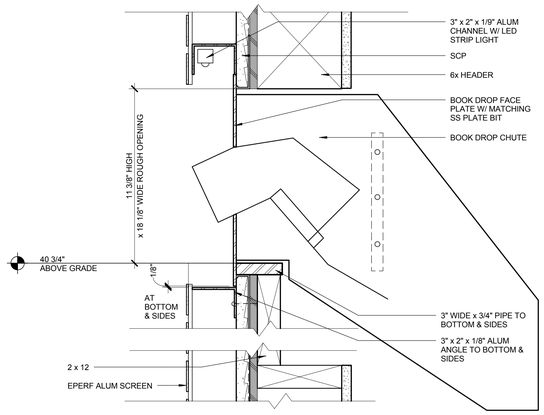
CLEARANCES FOR MULTIPLE PIPES- BETWEEN PIPES & FROM WALLS & CURBS

FOR PIPE PENENTRATION FLASHING SEE XX & XX/A9.30
FOR VENT PENETRATION FLASHING SEE XX/A9.30
FOR COLLAR FLASHING SEE XX/A9.30

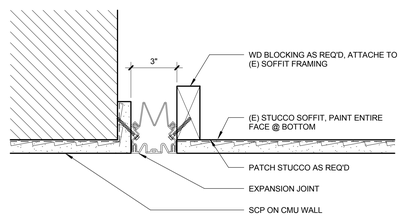
TYP. VENT PIPE CLEARANCE 0 1" 2" 4" 3" = 1'-0" **13**



CURB @ FURRED WALL 0 2" 4" 6" 8" 1 1/2" = 1'-0" **9**



BOOK DROP OFF 0 1" 2" 4" 3" = 1'-0" **5**



TYPE B

SEISMIC JOINT @ SOFFIT 0 1" 2" 4" 3" = 1'-0" **1**

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DRAWING NO.
6693

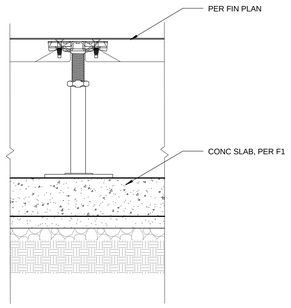
SHEET TITLE
WALL / ROOF/ FLOOR DETAILS

SHEET NO.
A9.23

SHEET OF

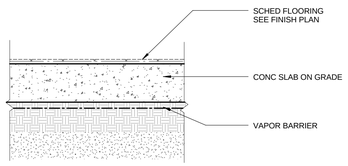
DWG. NO. -

TITLE OF PROJECT



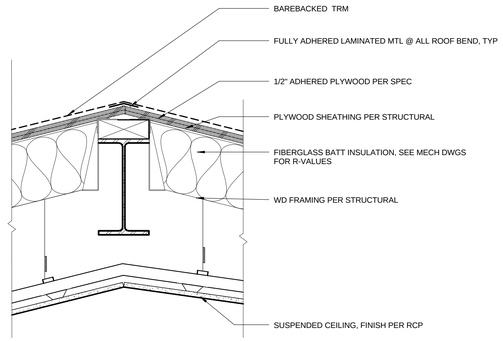
F2	CONC	-	-	-	-	
TYPE	STRUCTURE	FIRE RATING	IIC RATING	STC RATING	INSUL. TYPE	APPROVAL/REMARKS

RAISED ACCESS F2



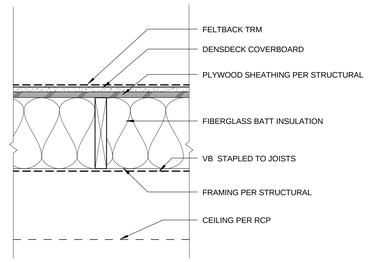
F1A	CONC					
F1	CONC	N/A	N/A	N/A	N/A	
TYPE	STRUCTURE	FIRE RATING	IIC RATING	STC RATING	INSUL. TYPE	APPROVAL/REMARKS

SLAB ON GRADE F1



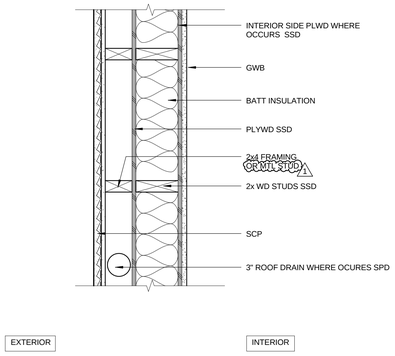
R2	STL/CONC	1	-	-	-	-
TYPE	STRUCTURE	FIRE RATING	IIC RATING	STC RATING	INSUL. TYPE	APPROVAL/REMARKS

THERMOPLASTIC ROOFING R2

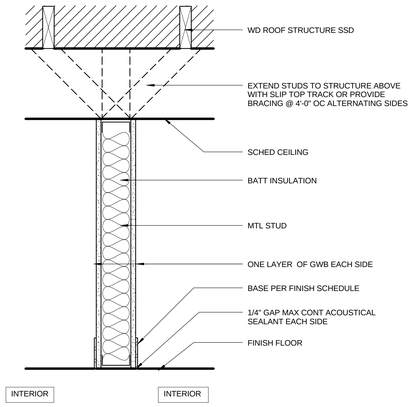


R1	STL/CONC	1	-	-	-	-
TYPE	STRUCTURE	FIRE RATING	IIC RATING	STC RATING	INSUL. TYPE	APPROVAL/REMARKS

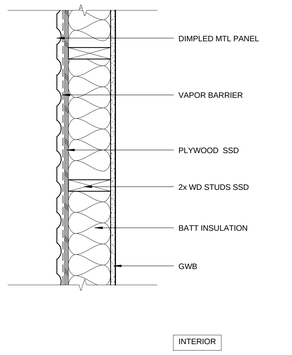
THERMOPLASTIC ROOFING R1



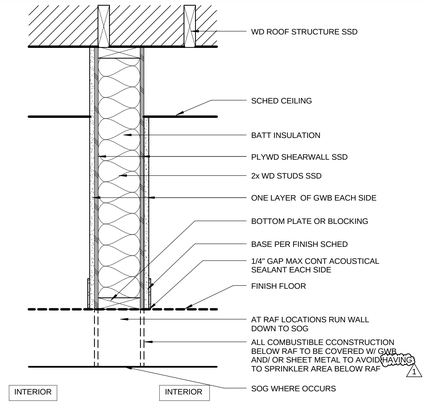
EXTERIOR FURRED OUT WALL H



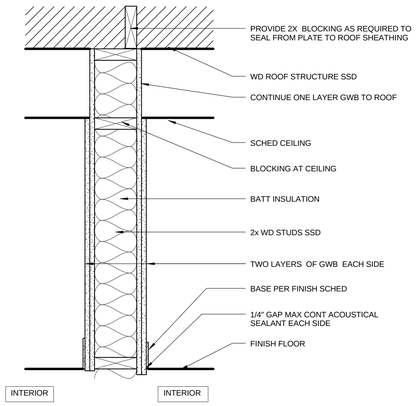
INTERIOR MTL PARTITION C



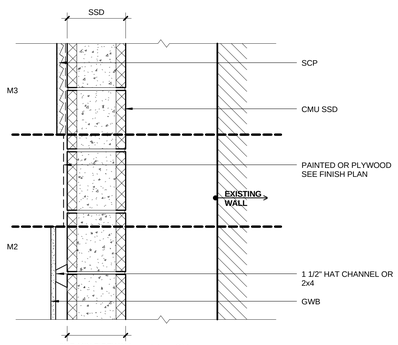
EXTERIOR MTL PANEL WALL G



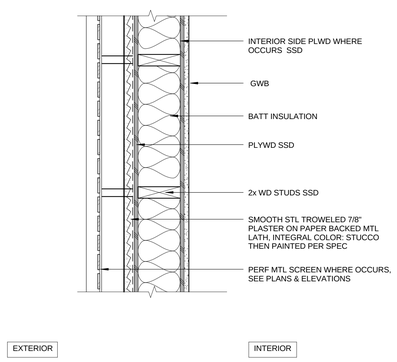
INTERIOR LOAD BEARING PARTITION E



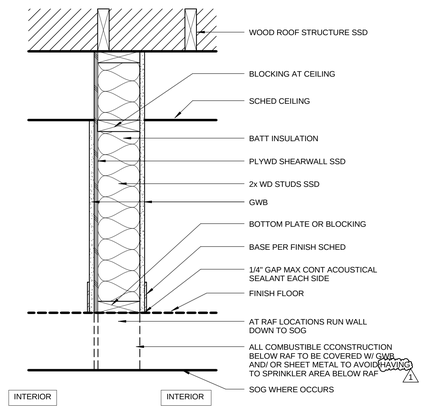
INTERIOR PARTITION B



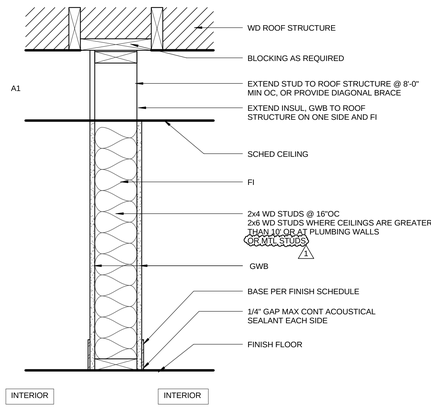
EXTERIOR MASONRY WALL M



EXTERIOR STUCCO WALL F



INTERIOR LOAD BEARING PARTITION D



INTERIOR PARTITION A

SHEET OF

DWG. NO. -

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DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
WALL / ROOF / FLOOR ASSEMBLIES

SHEET NO.
A9.30

SHEET OF

DWG NO. - -

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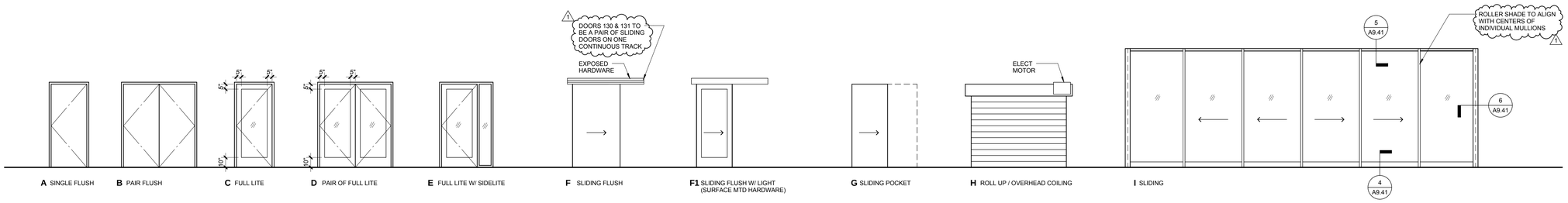
DOOR SCHEDULE

NUMBER	ROOM	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZING TYPE	GLAZING THK	HARDWARE FIRE RATING	HARDWARE HARDWARE GROUP	HARDWARE CLOSER	HARDWARE PANIC	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	COMMENTS
101	ENTRY	D	6'-0"	7'-10"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR	1/4"	NR	9	Yes		2/A9.41	3/A9.41	1/A9.41	POWER ASSIST OPERATOR; CARD KEY ACCESS; OVERHEAD CONCEALED AUTO DOOR OPERATOR; 120VAC
102	WORKROOM	C	4'-0" 1	7'-10"	1 3/4"	ALUM	ANOD	KDHM	PTD/ALUM	OBS	1/4"	NR	4B			2/A9.42		2/A9.42 1	
102a	WORKROOM	H	8'-0"	6'-8"	1 3/4"	STL	GALV	STL	GALV	--		1 HR	6B			11/A9.41	8/A9.42 1		OVERHEAD COILING DR, 1 HR FIRE RATED ELECTRIC; INSULATED
103	COLLECTION & SEATING	A	3'-0"	9'-0"	1 3/4"	HM	PTD	HM	PTD	-- 1		NR	8A	Yes	Yes	10/A9.41	9/A9.41	8/A9.41	PTD TO MATCH PERF SCREEN; FIRE ALARM CONNECTION, DELAYED EGRESS; 120VAC
104	GROUP STUDY C	F1	3'-6"	7'-0"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR LAM 1	1/4"	NR	4						HAWORTH "ENCLOSE" SLIDING DOOR; POWDER COAT EXT ALUM, ACOUSTIC SEALS
105	GROUP STUDY B	F1	3'-6"	7'-0"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR LAM 1	1/4"	NR	4						HAWORTH "ENCLOSE" SLIDING DOOR; POWDER COAT EXT ALUM, ACOUSTIC SEALS
106	GROUP STUDY A	F1	3'-6"	7'-0"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR LAM 1	1/4"	NR	4						HAWORTH "ENCLOSE" SLIDING DOOR; POWDER COAT EXT ALUM, ACOUSTIC SEALS
107	STOR	G	3'-2"	7'-0"	1 3/4"	WD	PTD	WD/ STL	PTD	--		NR	6			7/A9.42 1	6/A9.42	2/A9.42 1	1
109	RESTROOM	C	3'-0"	7'-10"	1 3/4"	ALUM	ANOD	KDHM	PTD/ALUM	LAM/ TRL 1	1/4"	NR	1	Yes		2/A9.42	1/A9.42	3/A9.42	
110	JANITOR	A	3'-0"	7'-10"	1 3/4"	HM	PTD	KDHM	PTD/ALUM	--		NR	5	Yes		2/A9.42	1/A9.42	2/A9.42 1	
112	RESTROOM	C	3'-0"	7'-10"	1 3/4"	ALUM	ANOD	KDHM	PTD/ALUM	LAM/ TRL 1	1/4"	NR	1	Yes		2/A9.42	1/A9.42	3/A9.42	
113	WC	A	3'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	2	Yes		2/A9.42	1/A9.42	3/A9.42	LATCH W/ OCCUPIED INDICATOR
114	I.T.	A	3'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	5A			2/A9.42	1/A9.42	2/A9.42	CARD KEY ACCESS
116	BRANCH MGR	E	3'-0"	7'-10"	1 3/4"	ALUM	PTD	KDHM	PTD/ALUM	CLR	1/4"	NR	3			2/A9.42	1/A9.42	2/A9.42	
117	STORAGE	A	3'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	4D			2/A9.42	1/A9.42	2/A9.42	
118	LOUNGE	A	3'-0"	8'-0"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	4A	Yes		2/A9.42	1/A9.42	2/A9.42 1	CARD KEY ACCESS
119	WC	A	3'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	2	Yes		2/A9.42	1/A9.42	3/A9.42	
120	CHILDREN'S LIBRARY	C	3'-0"	8'-0"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR	1/4"	NR	8B.1	Yes	Yes				CARD KEY ACCESS; FIRE ALARM CONNECTION; DELAYED EGRESS; 120VAC
124	COMMUNITY RM	I	29'-8"	10'-0"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR	1/4"	NR	6C			5/A9.41	6/A9.41	4/A9.41	ADA COMPLIANT SLIDER
124a	COMMUNITY RM	C	3'-0"	7'-10"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR	1/4"	NR	8B.1	Yes	Yes				CARD KEY ACCESS
124b	COMMUNITY RM	C	3'-0"	7'-10"	1 3/4"	ALUM	ANOD	ALUM	ANOD	CLR	1/4"	NR	8B	Yes	Yes				
125	PANTRY	A	3'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	4C			2/A9.42	1/A9.42	2/A9.42 1	
127	AV RM	B	5'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	7A			2/A9.42	1/A9.42 9/A9.42	2/A9.42	
128	JANITOR	B	6'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	7			2/A9.42	1/A9.42 9/A9.42	2/A9.42	
129	RESTROOM	A	3'-0"	7'-10"	1 3/4"	WD	PTD	KDHM	PTD/ALUM	--		NR	2A	Yes		2/A9.42	1/A9.42	3/A9.42	
130	STOR	F	4'-0"	8'-0"	1 3/4"	WD	PTD	N/A	N/A	--		NR	6A			10/A9.42	4/A9.42	10/A9.42	
131	STOR	F	4'-0"	8'-0"	1 3/4"	WD	PTD	N/A	N/A	--		NR	6A			10/A9.42	4/A9.42	10/A9.42	
132	ELEC RM	A	4'-0"	8'-0"	1 3/4"	HM	PTD	HM	PTD	--		NR	8			7/A9.41	7/A9.41		FACED W/DIMPLED MTL TO MATCH ADJACENT WALL PANEL
R1	ROOF	A	3'-0"	6'-8"	1 3/4"	HM	PTD	HM	PTD	--		NR	TBD			13/A9.41 1		13/A9.41 1	

ABBREVIATIONS

ALUM	ALUMINUM
ANOD	ANODIZED
CLR	CLEAR
DB	DARK BRONZE
DG	DUAL GLAZED
FF	FACTORY FINISH
GALV	GALVANIZED
HC	HOLLOW CORE
HM	HOLLOW METAL
IM	PREFINISHED STEEL DOOR FRAME
KDHM	KNOCK DOWN HOLLOW METAL
LAM	LAMINATE
LE	LOW EMITTANCE
ME	MATCH EXISTING
NR	NON RATED
OBS	OBSCURE
PTD	PAINTED
SC	SOLID CORE
SG	SINGLE GLAZED
STOR	STORE FRONT
STL	STEEL
TEMP	TEMPERED
TRL	TRANSLUCENT 1
WD	WOOD
e	EXISTING OPENING, DIM V.I.F.

NOTES:
1. SEE MECHANICAL DRAWINGS FOR DOORS THAT WILL REQUIRE UNDERCUTTING.
2. ALL GLAZING TO DOORS TO BE FULLY TEMPERED OR LAMINATED GLASS



A SINGLE FLUSH **B** PAIR FLUSH **C** FULL LITE **D** PAIR OF FULL LITE **E** FULL LITE W/ SIDELITE **F** SLIDING FLUSH **F1** SLIDING FLUSH W/ LIGHT (SURFACE MTD HARDWARE) **G** SLIDING POCKET **H** ROLL UP / OVERHEAD COILING **I** SLIDING

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DATE : 20
SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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REVIEWED BY : DATE : 20

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

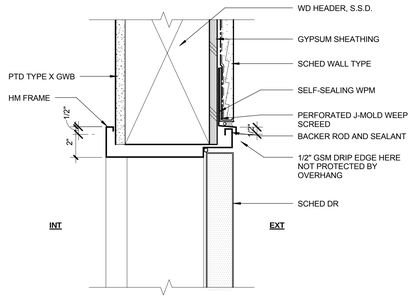
DRAWING NO. **6693**

SHEET TITLE
DOOR SCHEDULE

SHEET NO.
A9.40

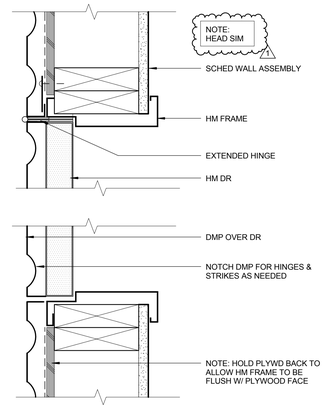
TITLE OF PROJECT:

DOOR SCHEDULE & LEGEND 1



NOTE:
- JAMB SIM.
- STL. STUD CONST. SIM.

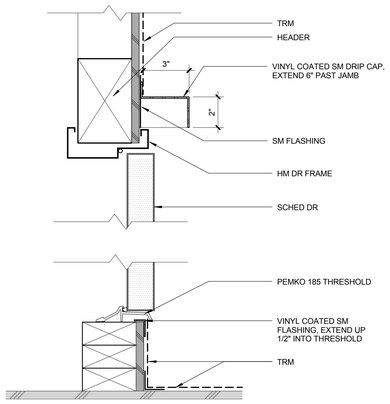
EXT HM DR HEAD @ STUCCO | 0 1" 2" 4" | 3" = 1'-0" | 10



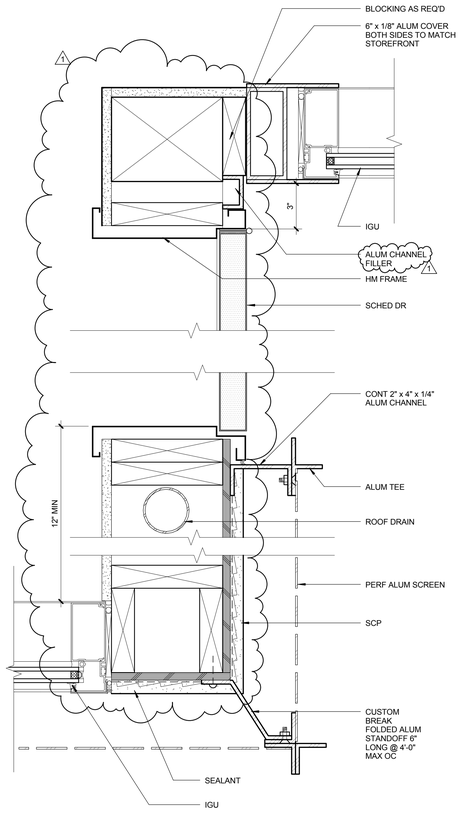
DR 132 JAMB | 0 1" 2" 4" | 3" = 1'-0" | 7

MATERIAL ABBREVIATIONS

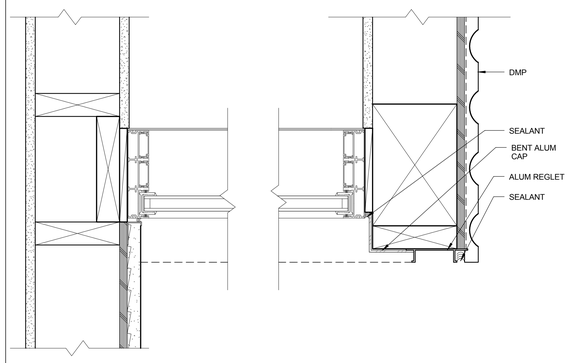
AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
PB	PROTECTION BOARD
PCP	PRE-CAST CONCRETE PLANKS
RAF	RAISED ACCESS FLOOR SYSTEM
RD	ROOF DRAIN
RPU	ROOFING PLYWOOD UNDERLAY
SAWM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



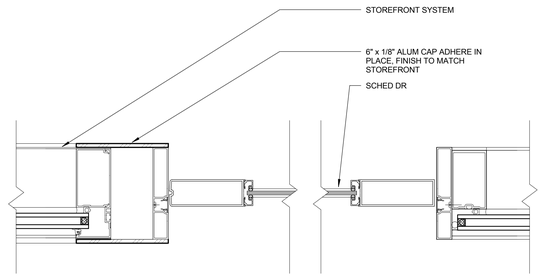
R1 - HEAD & SILL | 0 1" 2" 4" | 3" = 1'-0" | 13



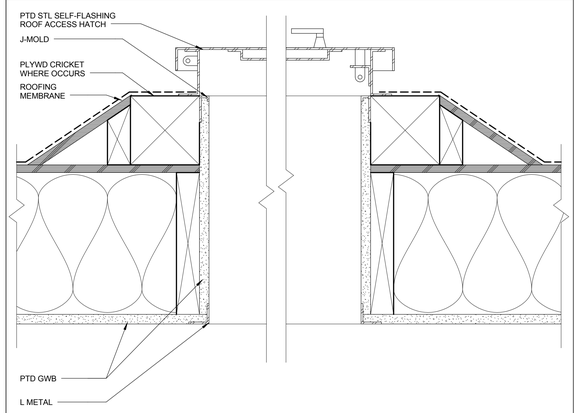
DR 103 JAMB | 0 1" 2" 4" | 3" = 1'-0" | 9



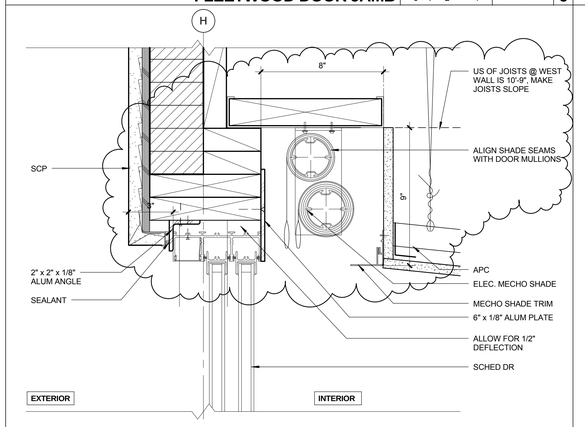
FLEETWOOD DOOR JAMB | 0 1" 2" 4" | 3" = 1'-0" | 6



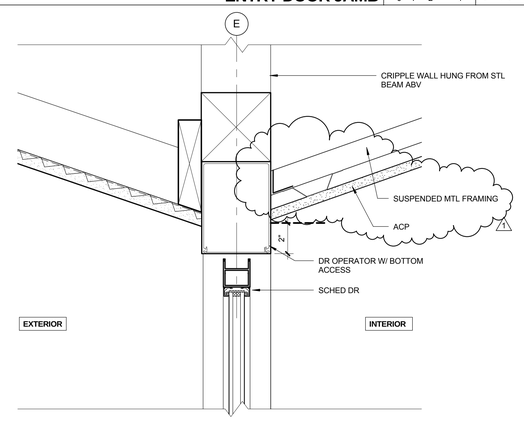
ENTRY DOOR JAMB | 0 1" 2" 4" | 3" = 1'-0" | 3



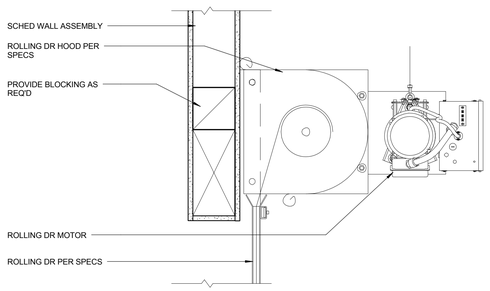
ROOF ACCESS HATCH | 0 1" 2" 4" | 3" = 1'-0" | 12



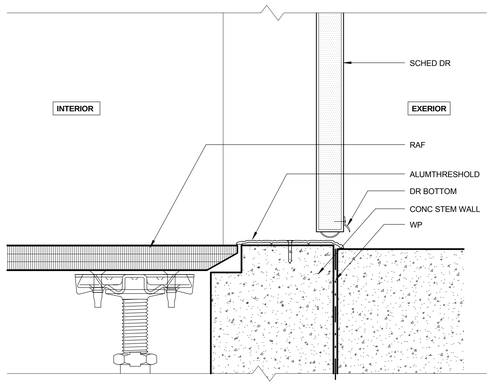
FLEETWOOD DOOR HEAD | 0 1" 2" 4" | 3" = 1'-0" | 5



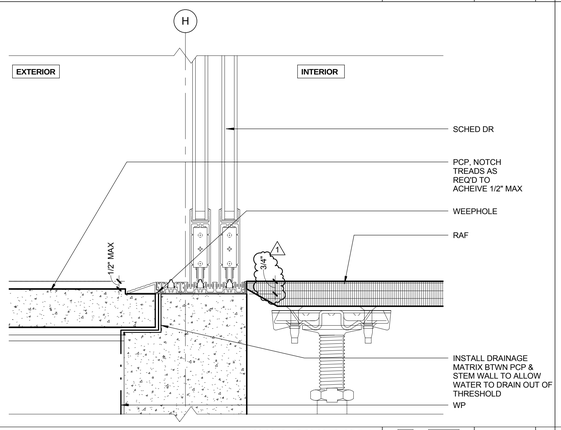
ENTRY DOOR HEAD | 0 1" 2" 4" | 3" = 1'-0" | 2



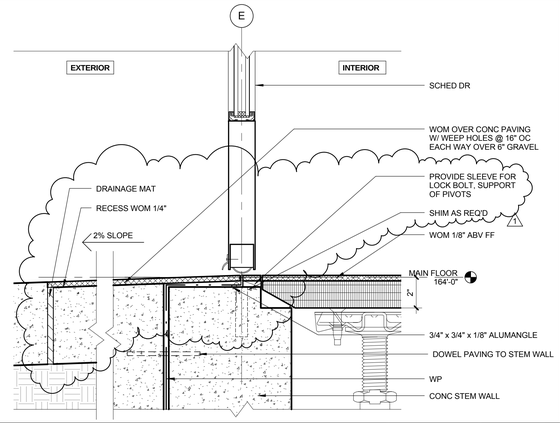
OVERHEAD DR 102 HEAD | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 11



DR 103 SILL | 0 1" 2" 4" | 3" = 1'-0" | 8



FLEETWOOD DOOR SILL | 0 1" 2" 4" | 3" = 1'-0" | 4



ENTRY DOOR SILL | 0 1" 2" 4" | 3" = 1'-0" | 1

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ARCHITECT'S PROJECT NO.
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CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

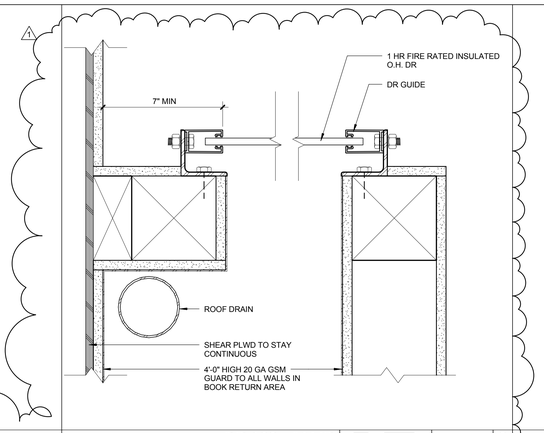
SHEET TITLE
DOOR DETAILS

SHEET NO.
A9.41

SHEET OF

DWG NO. -

TITLE OF PROJECT



DR 102a JAMB | 0 1" 2" 4" | 3" = 1'-0" | 8

MATERIAL ABBREVIATIONS

AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
PB	PROTECTION BOARD
PCP	PRE-CAST CONCRETE PLANKS
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SAWM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
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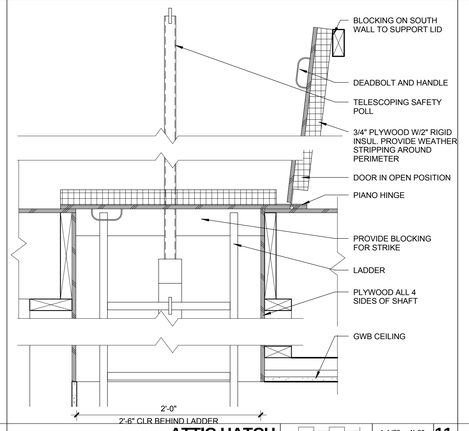
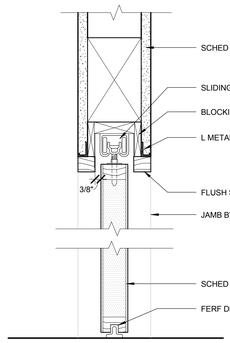
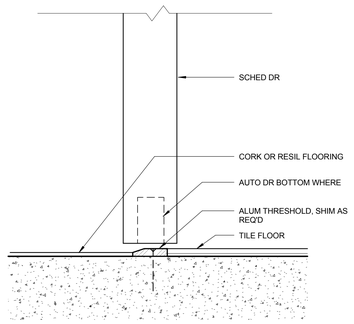
WOM	WALLK OFF MAT
WP	WATERPROOFING



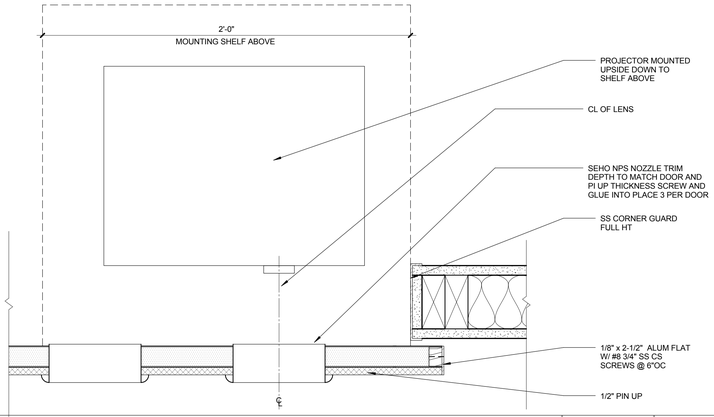
ATTIC HATCH | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 11



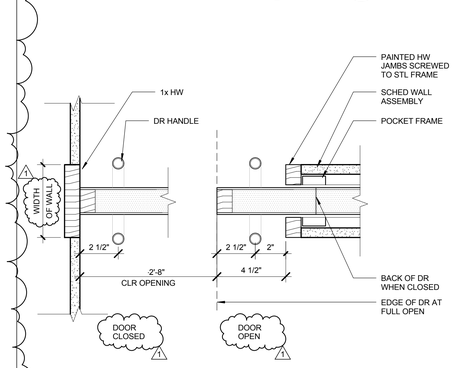
DR 107 | 0 1" 2" 4" | 3" = 1'-0" | 7



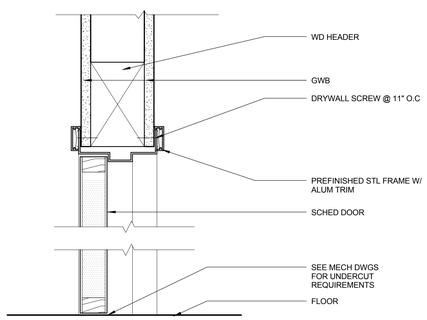
INTERIOR SILL @ TILE FLOOR | 0 1" 2" 4" | 6" = 1'-0" | 3



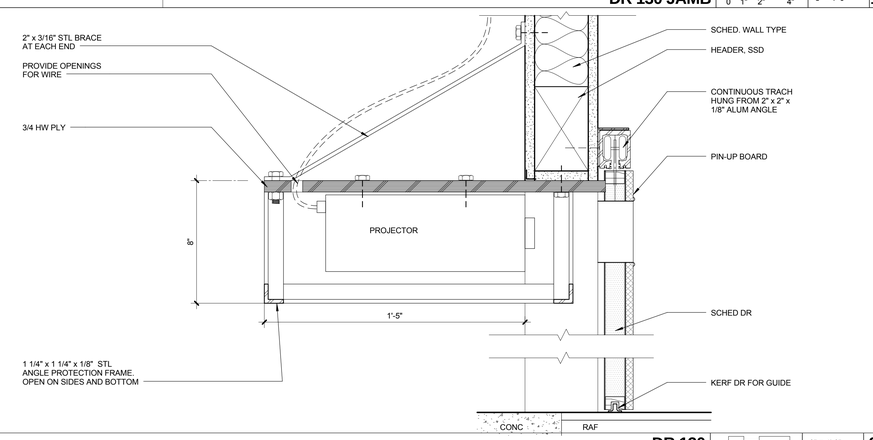
DR 130 JAMB | 0 1" 2" 4" | 3" = 1'-0" | 10



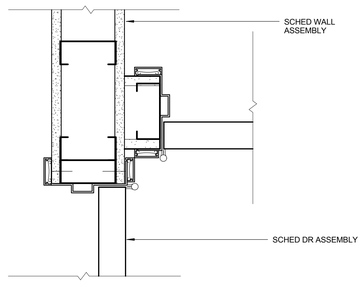
DR 107 JAMB | 0 1" 2" 4" | 3" = 1'-0" | 6



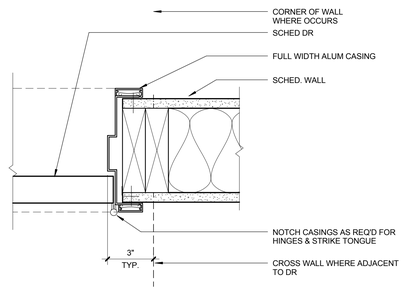
INTERIOR HEAD @ GWB | 0 1" 2" 4" | 3" = 1'-0" | 2



DR 130 | 0 1" 2" 4" | 3" = 1'-0" | 9



DR 127, 128 JAMB | 0 1" 2" 4" | 3" = 1'-0" | 5



INTERIOR JAMB@ GWB | 0 1" 2" 4" | 3" = 1'-0" | 1

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ARCHITECT'S PROJECT NO.
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ARCHITECT

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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
DOOR DETAILS

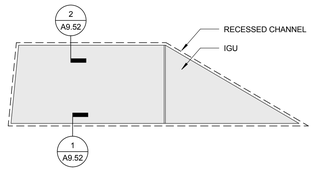
SHEET NO.
A9.42

SHEET OF

DWG NO. -

TITLE OF PROJECT

124c



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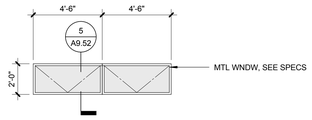

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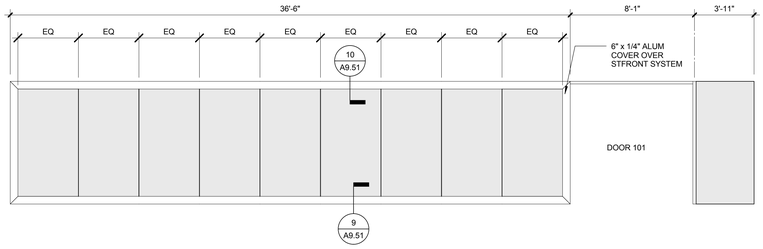

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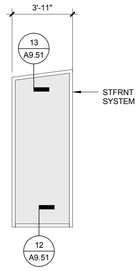

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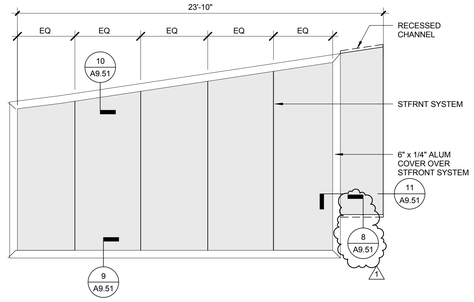
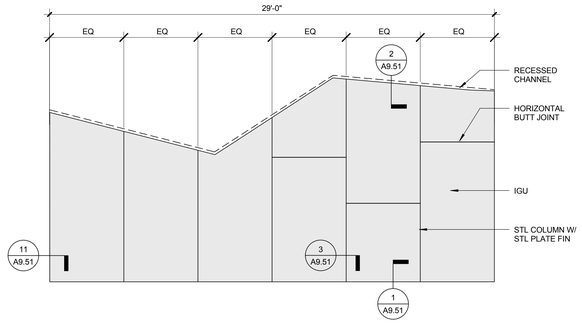
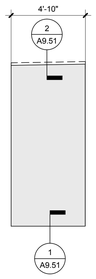


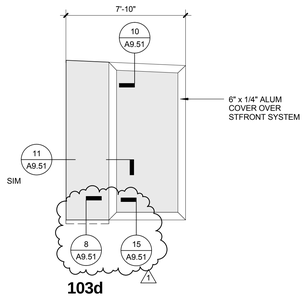
103a



103b



103c



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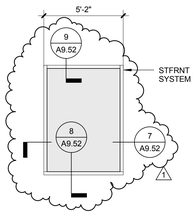

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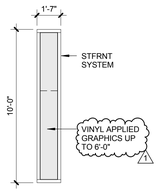

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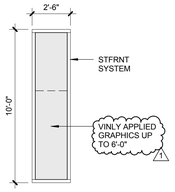

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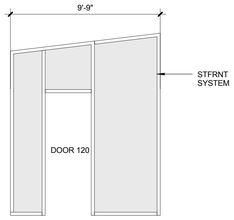

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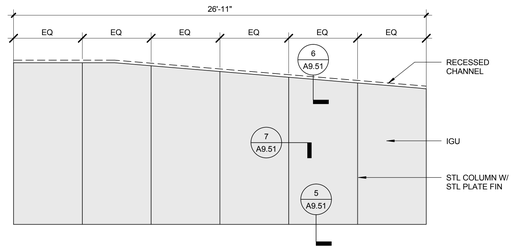

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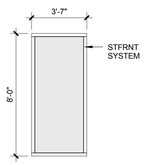

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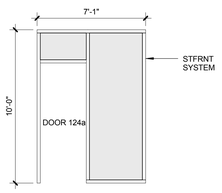

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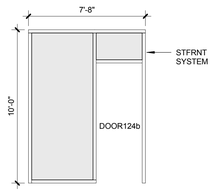

124b

WINDOW NOTES

1. THIS SCHEDULE IS INTENDED AS A GUIDE. CONTRACTOR TO VERIFY ALL OPENINGS IN FIELD & SIZE WINDOWS TO THE FULL WIDTH OF OPENING U.N.O.
2. COORDINATE JAMB/ HEAD DIMENSIONS W/ VARYING WALL THICKNESSES.
3. SEE SPECS FOR GLAZING TYPES - ALL GLASS SHALL BE DUAL GLAZED LOW E U.N.O.
4. ALL DIMENSIONS TO BE VERIFIED IN FIELD.

SHEET OF

DWG NO. - -

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ARCHITECT'S PROJECT NO.
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ARCHITECT

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architecture@smgov.net

SUBMITTED BY : DATE : 20

APPROVED BY : DATE : 20
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

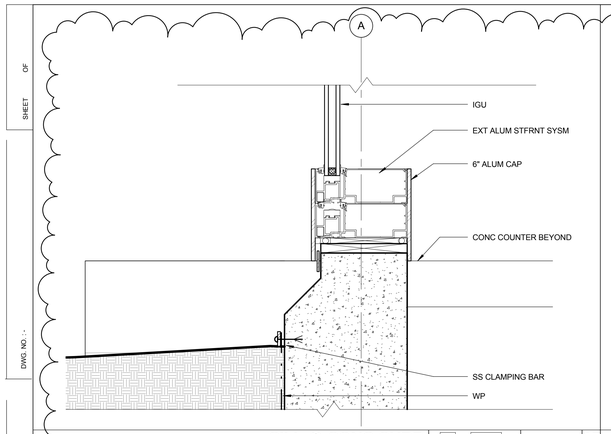
ADDENDUM 2

DATE
02/21/2012

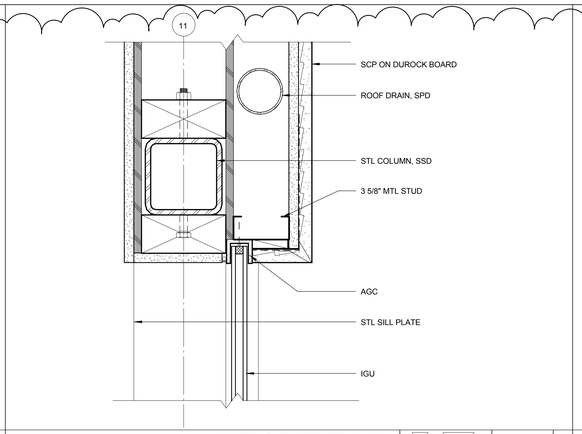
DRAWING NO. **6693**

SHEET TITLE
WINDOW TYPES

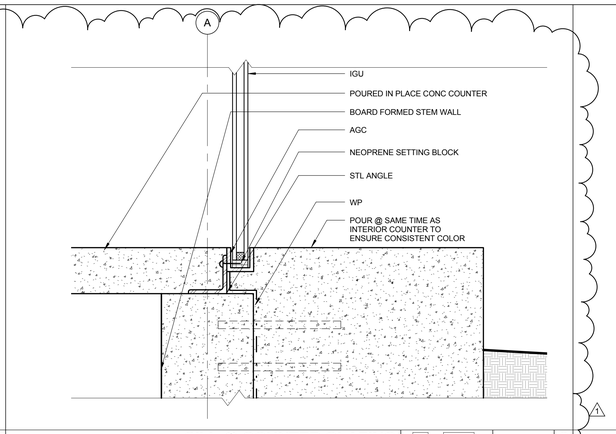
SHEET NO.
A9.50



SILL @ CONC CURB 0 1" 2" 4" 3" = 1'-0" **15**



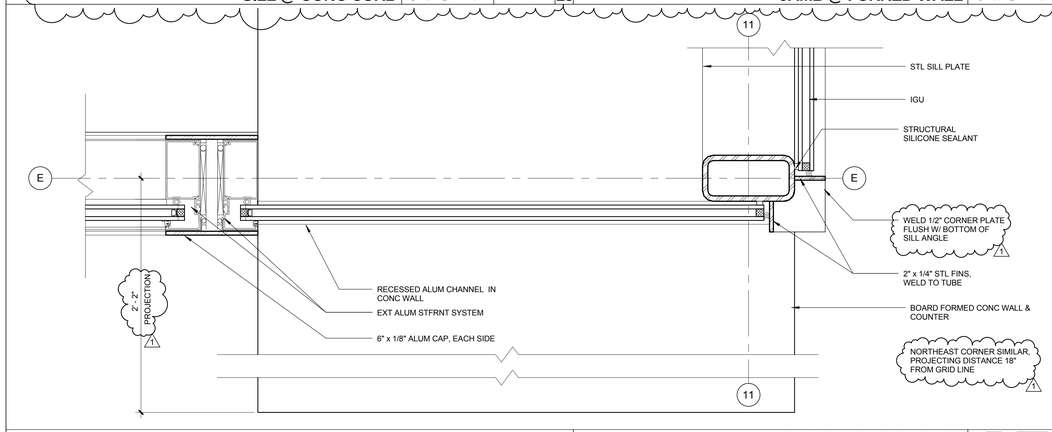
JAMB @ FURRED WALL 0 1" 2" 4" 3" = 1'-0" **14**



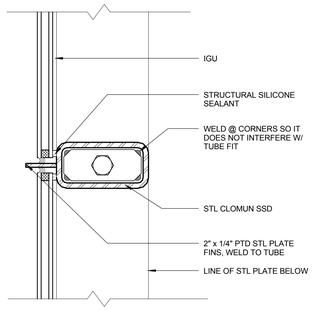
SILL @ COUNTER GLAZING 0 1" 2" 4" 3" = 1'-0" **8**

MATERIAL ABBREVIATIONS

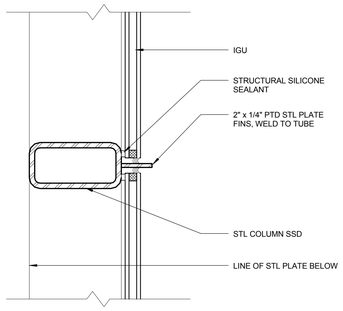
AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
FI	FIBERGLASS INSULATION
HW	HARD WOOD
IGU	INSULATED GLASS UNIT
NSB	NEOPRENE SETTING BLOCK
PB	PROTECTION BOARD
PCP	PRE-CAST CONCRETE PLANKS
RAF	RAISED ACCESS FLOOR SYSTEM
RD	ROOF DRAIN
RPU	ROOFING PLYWOOD UNDERLAY
SAWM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



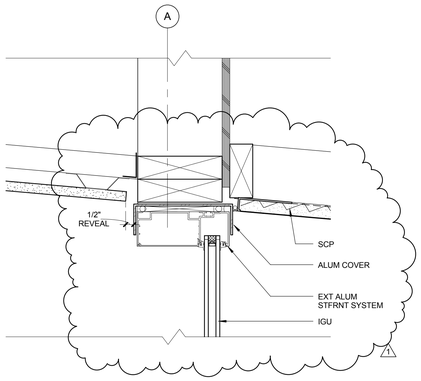
JAMB @ GLAZING CORNER 0 1" 2" 4" 3" = 1'-0" **11**



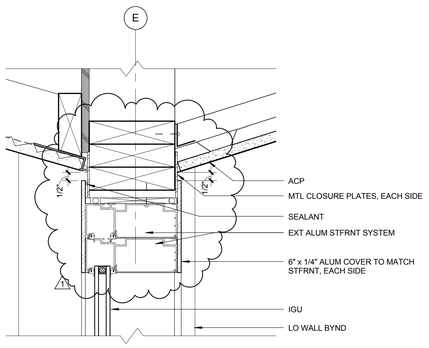
JAMB @ WEST GLAZING 0 1" 2" 4" 3" = 1'-0" **7**



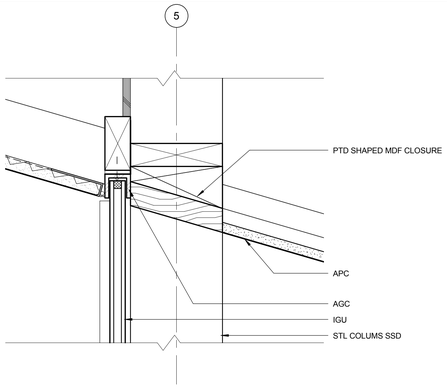
JAMB @ EAST GLAZING 0 1" 2" 4" 3" = 1'-0" **3**



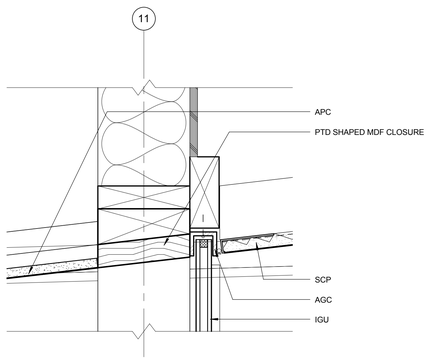
STOREFRONT HEAD 0 1" 2" 4" 3" = 1'-0" **13**



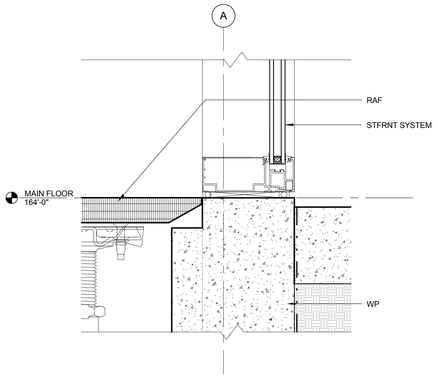
GLAZING HEAD @ SOFFIT 0 1" 2" 4" 3" = 1'-0" **10**



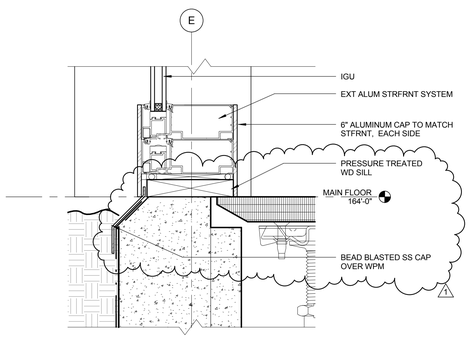
HEAD @ WEST GLAZING 0 1" 2" 4" 3" = 1'-0" **6**



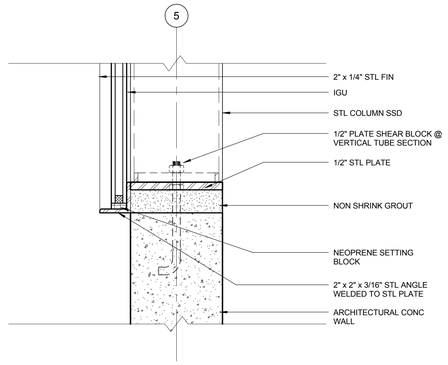
HEAD @ EAST GLAZING 0 1" 2" 4" 3" = 1'-0" **2**



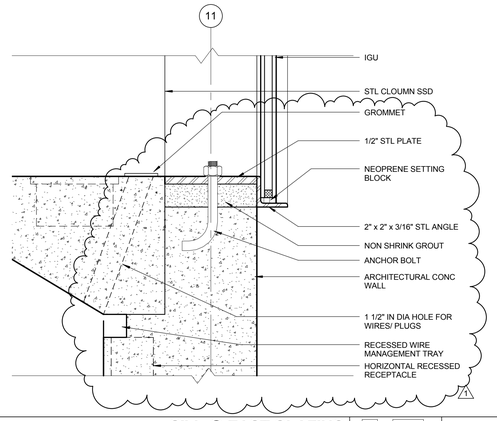
STOREFRONT SILL 0 1" 2" 4" 3" = 1'-0" **12**



GLAZING SILL @ STEM WALL 0 1" 2" 4" 3" = 1'-0" **9**



SILL @ WEST GLAZING 0 1" 2" 4" 3" = 1'-0" **5**



SILL @ EAST GLAZING 0 1" 2" 4" 3" = 1'-0" **1**

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ARCHITECT'S PROJECT NO.
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FAX. (310) 399-1541
architecture@smgov.net

DATE : 20
SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

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DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

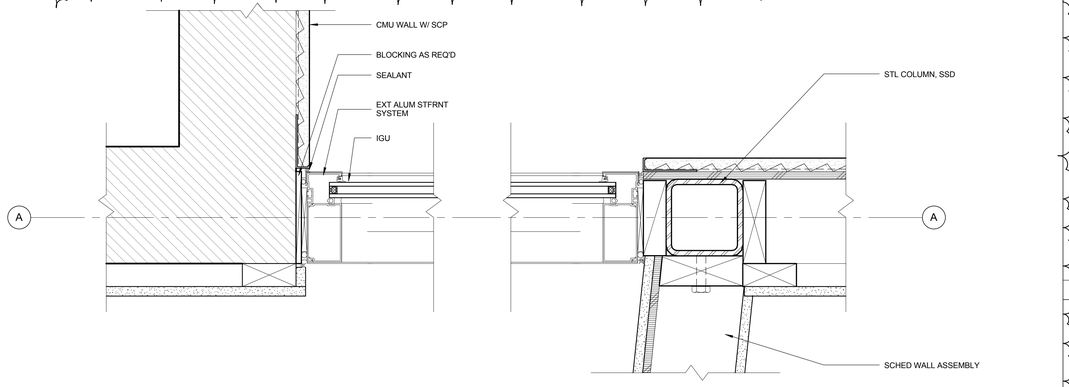
ISSUE
ADDENDUM 2

DATE
02/21/2012

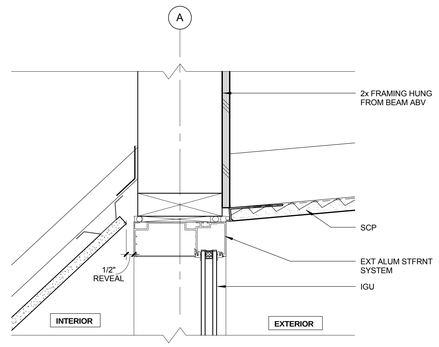
DRAWING NO. **6693**

SHEET TITLE
WINDOW DETAILS

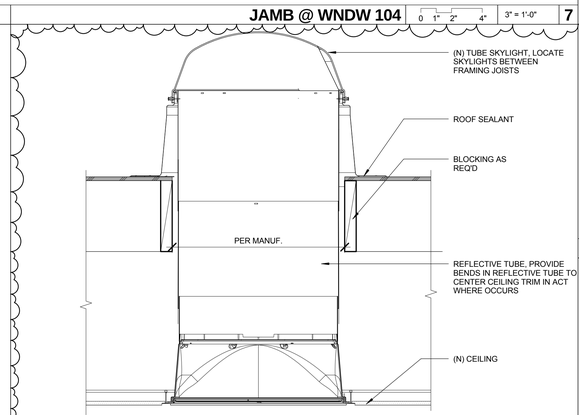
SHEET NO.
A9.51



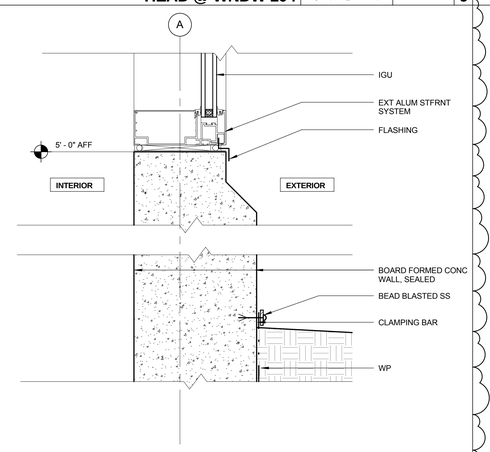
JAMB @ WNDW 104 | 0 1" 2" 4" | 3" = 1'-0" | 7



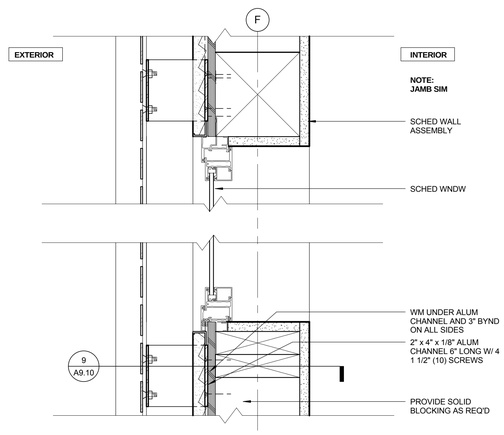
HEAD @ WNDW 104 | 0 1" 2" 4" | 3" = 1'-0" | 9



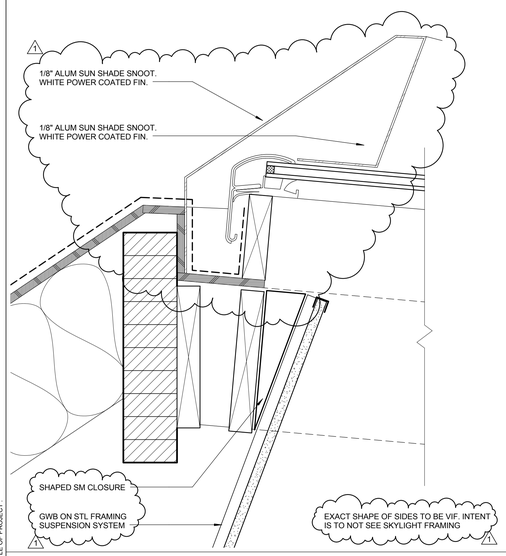
TUBE TYPE SKYLIGHT | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 6

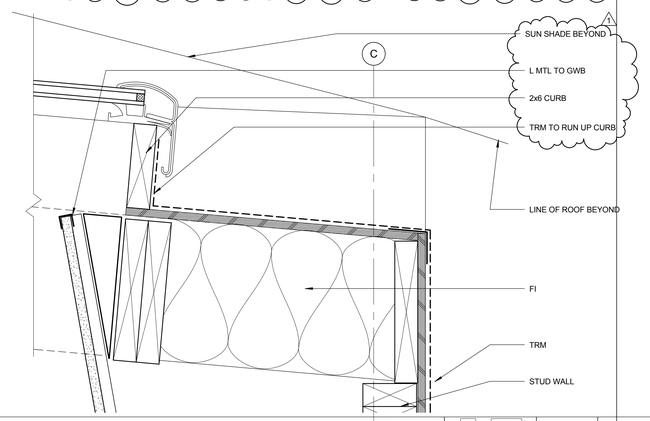


SILL @ WNDW 104 | 0 1" 2" 4" | 3" = 1'-0" | 8



WORK ROOM WNDW | 0 1" 2" 4" | 3" = 1'-0" | 5





SKYLIGHT | 0 1" 2" 4" | 3" = 1'-0" | 4

MATERIAL ABBREVIATIONS

AGC	ALUMINUM GLAZING CHANNEL
APC	ACOUSTICAL PLASTER CEILING
DF	DRAINAGE FABRIC
DMP	DIMPLED MTL PANEL
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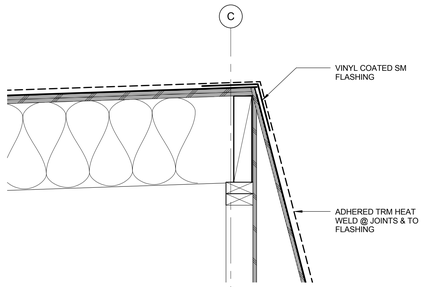
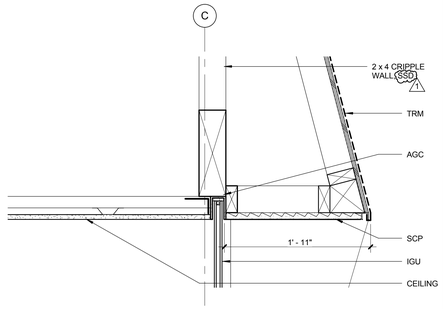
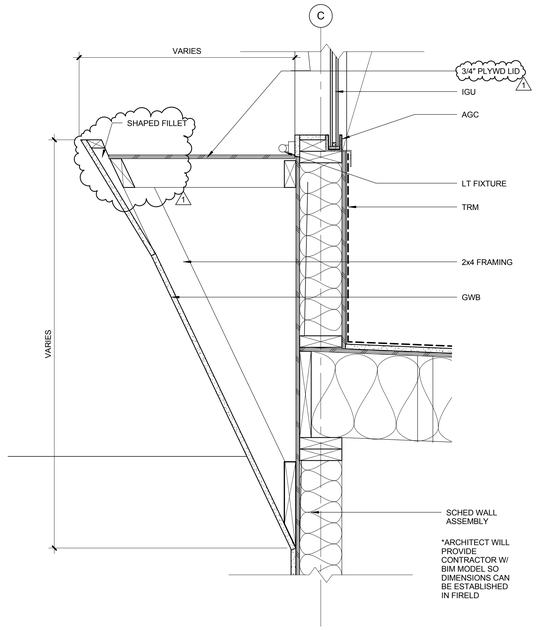
SAWM	SELF ADHERED WATERPROOFING MEMBRANE
SCP	SMOOTH STEEL TROWLED CEMENT PLASTER
SOG	SLAB ON GRADE
SS	STAINLESS STEEL
TRM	THERMOPLASTIC ROOFING MATERIAL
VB	VAPOR BARRIER
WOM	WALLK OFF MAT
WP	WATERPROOFING



ROOF @ CLERESTORY | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 3



HEAD @ CLERESTORY | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 2



SILL @ CLERESTORY | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 1

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Architecture Services Manager
CITY OF SANTA MONICA
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DATE
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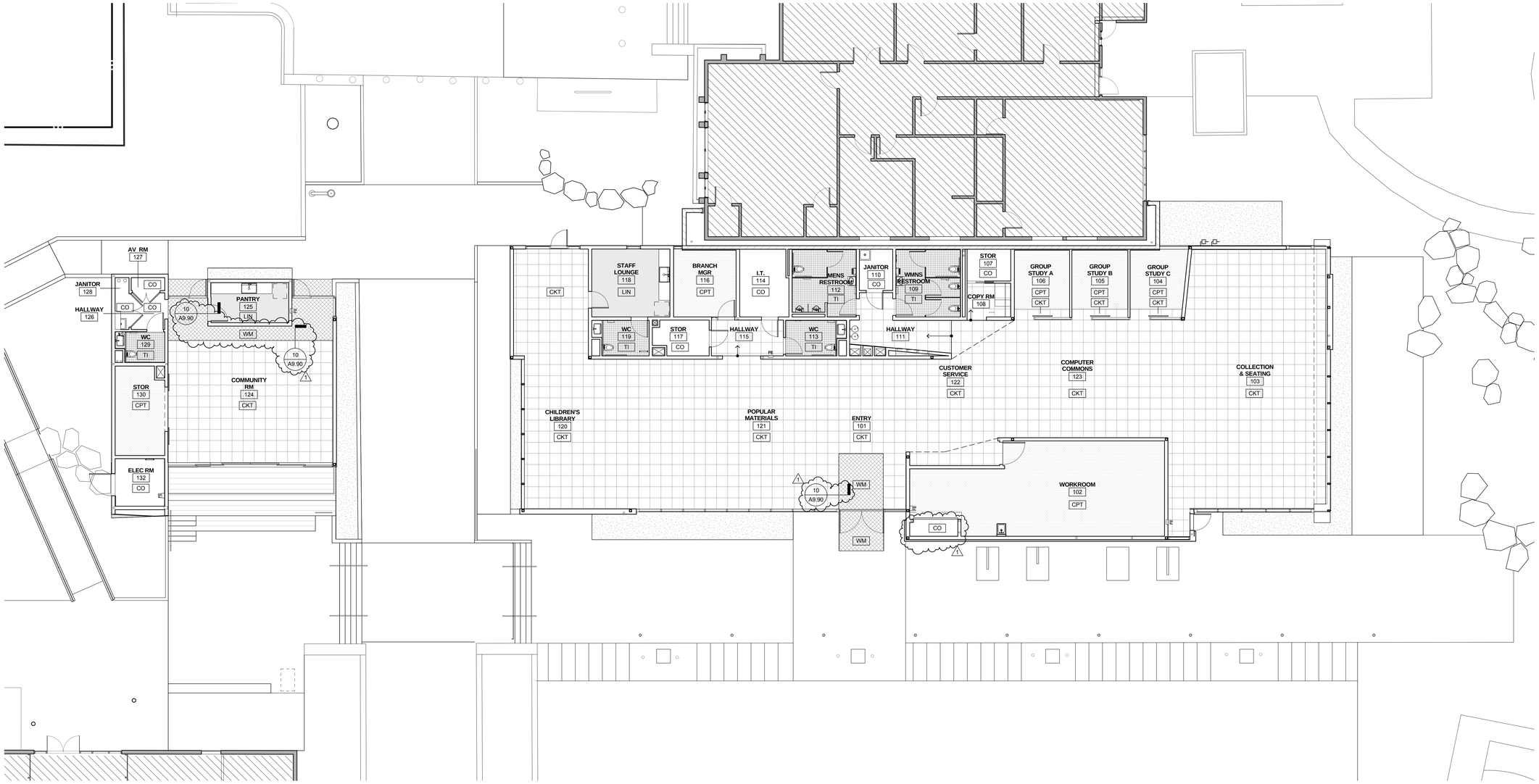
DRAWING NO. **6693**

SHEET TITLE
WINDOW DETAILS

SHEET NO.
A9.52

SHEET OF
DWG. NO. - -
TITLE OF PROJECT:



FINISH PLAN

0 2' 4' 8' | 1/8" = 1'-0" | 2

FINISH SCHEDULE													
				WALL FINISH				BASE FINISH					
NUMBER	ROOM NAME	CEILING FINISH	FLOOR FINISH	N	E	S	W	N	E	S	W	NOTES
131	STOR	PTD	CPT	PTD	PTD	PTD	PTD	VB	VB	VB	VB	
101	ENTRY	AP1	CKT / WM	PTD	PTD	N/A	N/A	MT	MT	N/A	N/A	
102	WORKROOM	PTD	CPT	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
103	COLLECTION & SEATING	AP1/AP2	CKT	PTD	PTD	N/A	PTD	MT	MT	N/A	MT	
104	GROUP STUDY C	PTD	CPT/ CKT	PTD	DEB	N/A	DEB	MT	MT	N/A	MT	N WALL GETS APPLIED GRAPHIC
105	GROUP STUDY B	PTD	CPT/ CKT	PTD	DEB	N/A	DEB	MT	MT	N/A	MT	N WALL GETS APPLIED GRAPHIC
106	GROUP STUDY A	PTD	CPT CKT	PTD	DEB	N/A	DEB	MT	MT	N/A	MT	N WALL GETS APPLIED GRAPHIC
107	STOR	PTD	CO	PTD	PTD	PTD	PTD	VB	VB	VB	VB	
108	COPY RM	PTD	CKT	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
109	WMNS RESTROOM	PTD	TI	TI	TI	TI	TI	TB	TB	TB	TB	CERAMIC TILE FULL HEIGHT OF WALL
110	JANITOR	PTD	CO	RFP/ CMU	RFP/ PTD	RFP / PTD	RFP / PTD	VB	VB	VB	VB	RFP COVERING TO 4'-0" AFF
111	HALLWAY	PTD	CKT	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
112	MENS RESTROOM	PTD	TI	TI	TI	TI	TI	TB	TB	TB	TB	CERAMIC TILE FULL HEIGHT OF WALL
113	WC	PTD	TI	TI	TI	TI	TI	TB	TB	TB	TB	CERAMIC TILE FULL HEIGHT OF WALL
114	I.T.	PTD	CO	3/4" PLYWD	3/4" PLYWD	3/4" PLYWD	3/4" PLYWD	-	-	-	-	PLYWD FULL HEIGHT
115	HALLWAY	PTD	CKT	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
116	BRANCH MGR	PTD	CPT	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
117	STOR	PTD	CO	PTD	PTD	PTD	PTD	VB	VB	VB	VB	
118	STAFF LOUNGE	PTD	LIN	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
119	WC	PTD	TI	TI / PTD	TI / PTD	TI / PTD	TI / PTD	TB	TB	TB	TB	CERAMIC TILE UP TO 4'-0" AFF
120	CHILDREN'S LIBRARY	AP1	CKT	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
121	POPULAR MATERIALS	AP1	CKT	PTD	N/A	N/A	N/A	MT	N/A	N/A	N/A	
122	CUSTOMER SERVICE	AP1	CKT	PTD	N/A	PTD	N/A	MT	N/A	MT	N/A	
123	COMPUTER COMMONS	AP1	CKT	PTD	N/A	PTD	N/A	MT	N/A	MT	N/A	
124	COMMUNITY RM	AP1	CKT	PTD	PTD	N/A	PTD	MT	MT	N/A	MT	
125	PANTRY	PTD	LIN	PTD	PTD	PTD	PTD	MT	MT	MT	MT	
126	HALLWAY	PTD	CKT	PTD	N/A	PTD	PTD	MT	N/A	MT	MT	
127	AV RM	PTD	CO	PTD	PTD	PTD	PTD	VB	VB	VB	VB	
128	JANITOR	PTD	CO	RFP / PTD	RFP/ PTD	RFP/ PTD	RFP/ PTD	VB	VB	VB	VB	RFP COVERING UP TO 4'-0" AFF
129	WC	PTD	TI	TI	TI	TI	TI	TB	TB	TB	TB	CERAMIC TILE FULL HEIGHT OF WALL
130	STOR	PTD	CPT	PTD	PTD	PTD	PTD	VB	VB	VB	VB	
132	ELEC RM	PTD	CO	PTD/ CO	PTD/ CO	PTD	PTD	-	-	-	-	

LOCATION	SIZE	TYPE	DESCRIPTION	MANUFACTURER	NOTES
CEILING		PTD	GWB, PTD		
		AP1	ACOUSTIC PLASTER ON SS SYSTEM	STAR SILENT	
		AP2	ACOUSTIC PLASTER ON GWB	STAR SILENT PLASTER ON GWB	
FLOORS		CO	CONCRETE, CLEAR SEALED		MATTE FIN
	19.69" x 19.69"	CPT	CARPET TILE	INTERFACE FLOR, CARPET TILE	ALLOW UP TO 4 COLORS
		CKT	CORK TILE	WINCANDER	ON RAISED FLOOR (TATE ACCESS), ON SLAB WHERE NOTED
		LIN	LINOLEUM	FORBO INDUSTRIES LINOLEUM	ALLOW UP TO 4 COLORS, SHEET
	5" x 5"	TI	CERAMIC TILE	DAL-TILE	ALLOW UP TO 4 COLORS
		WM	WALK-OFF MAT		
WALLS		PTD	GWB, PTD		
		TIL	CERAMIC TILE	DAL-TILE	ALLOW UP TO 4 COLORS IN PAINT
		CKT	CORK TILE	WINCANDER	
		DEB	MAGNETIC DRY ERASE BOARD ON GWB	IDEA PAINT	ALLOW CUSTOM COLOR
		CMU	PTD CMU		
		CO	CONCRETE, CLEAR SEALED		MATTE FIN
BASE		MT	METAL BASE		4" ANOD ALUM BASE, FLUSH INSTALL
		TB	CERAMIC TILE	DAL-TILE	
		VB	VINYL BASE		4" BASE FLAT
		VI	VINYL COVERING		

FINISH PLAN NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & TYPICAL PAINT TYPES: INT, EXT, FLAT, EGGSHELL, SEMI-GLOSS, ETC.
2. SEE INTERIOR ELEVATIONS & RELEVANT DETAILS FOR ADDITIONAL INFORMATION.
3. ALLOW FOR UP TO 4 COLORS IN PTD SURFACES.
4. ALLOW FOR VARIOUS PAINT FINISHES; FLAT, EGGSHELL, & SEMIGLOSS.
5. ALL GWB TO BE A-LEVEL FINISH.
6. SEE GRAPHIC SHEETS FOR AREAS W/ APPLIED WALL GRAPHICS.
7. ALL HORIZONTAL CONC SURFACES TO GET SCOFIELD "CEMENTONE" CLR SEALER OR EQUAL.
8. CORK TILE: "WICANDER UP" (SERIES 4000) W/ HPS VINYL FINISH & UV PROTECTIVE COATING. IN NATURAL OR ACCENT. CORK TILE @ ACCESS FLOORING TO BE FACTORY APPLIED.
9. FIELD APPLIED & FACTORY APPLIED CORK TILES TO HAVE CONSISTENT FINISH.
10. ACCESS TILES WITH FACTORY APPLIED CORK FINISH TO BE GRAVOTY HELD IN A BOLTED STRINGER UNDERSTRUCTURE. NO EXPOSED SCREWS @ CORK TILES.
11. CARPET TILE TO BE FIELD APPLIED. FREE LAY CARPET TILE, NO 1/4 TURN INSTALLATION.

LEGEND

- CARPET TILE (2' X 2'. ALLOW UP TO 4 COLORS)
- CERAMIC TILE (2" X 2". ALLOW UP TO 4 COLORS)
- SEALED CONCRETE, MATTE FIN
- SHEET LINOLEUM (ALLOW UP TO 4 COLORS)
- CORK TILE (WICANDER ON TATE ACCESS FLOOR SYSTEM)
- CONCRETE PLANKS (12" WIDE X 6' LONG)
- WALK OFF MAT

FINISH ABBREVIATIONS

AP	ACOUSTIC PLASTER
CKT	CORK
CMU	CONCRETE MASONRY UNIT
CO	SEALED CONCRETE
CPT	CARPET
LIN	LINOLEUM
MT	METAL
PTD	PAINTED
RFP	REINFORCED FIBERGLASS PANELS
TI	TILE
VB	VINYL BASE
WM	WALK OFF MAT

FINISH SCHEDULE & LEGEND | 1

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ARCHITECT'S PROJECT NO.
1001

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APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

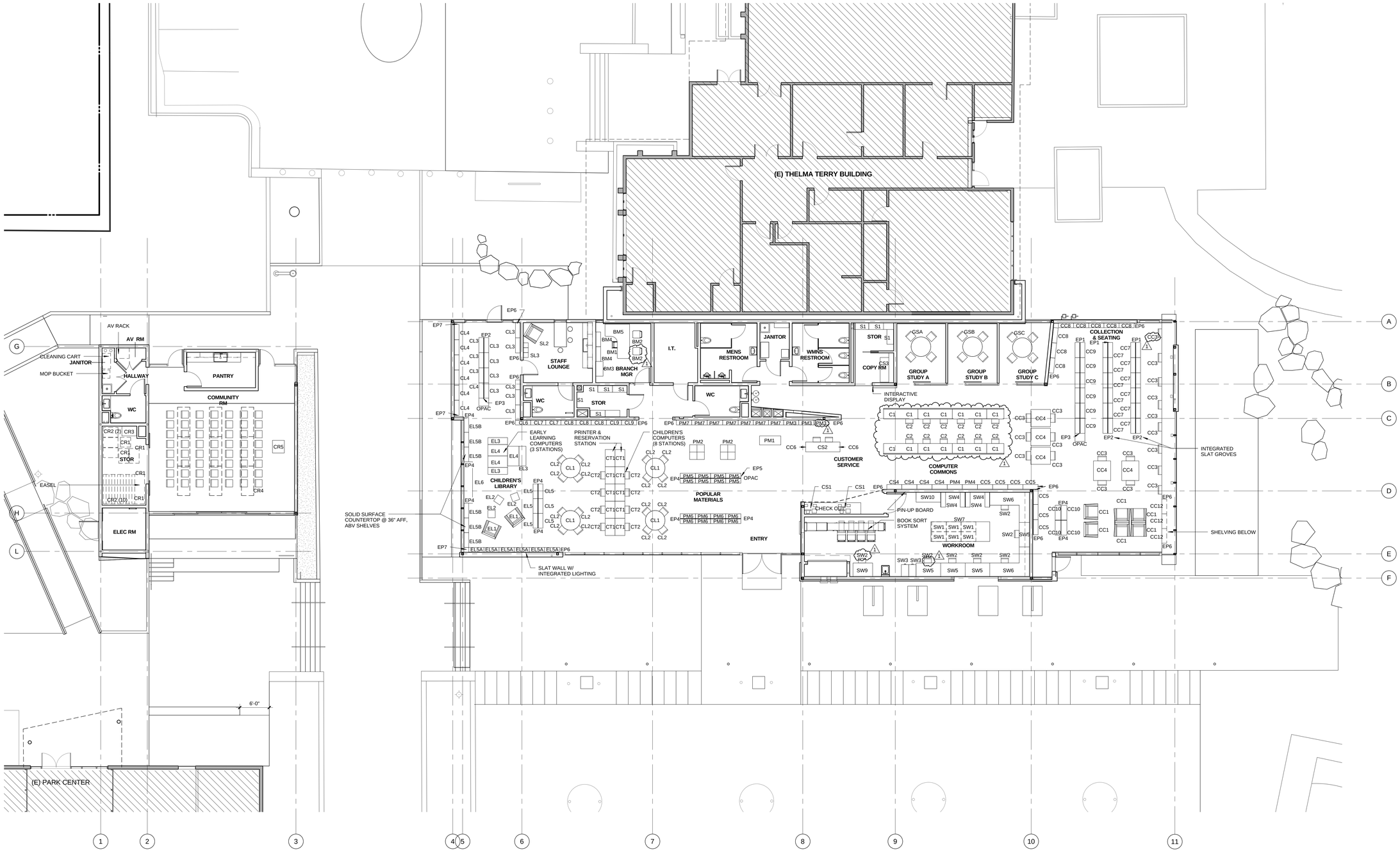
SHEET TITLE
FINISH PLAN & SCHEDULE

SHEET NO.
A9.60

SHEET OF

DWG NO. -

TITLE OF PROJECT:



MAIN FLOOR FURNITURE PLAN 0 2' 4' 8' 1/8" = 1'-0" 1

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2
DATE
02/21/2012
DRAWING NO. **6693**

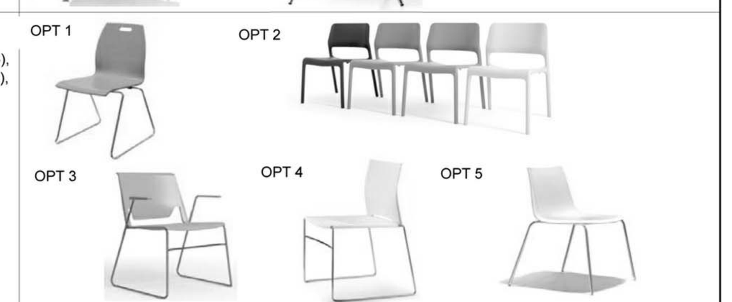
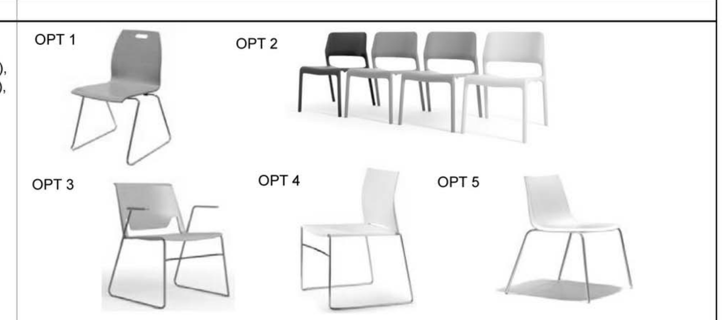
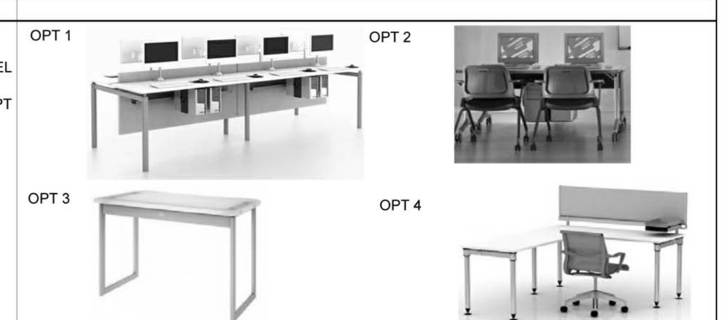
SHEET TITLE
FURNITURE PLAN

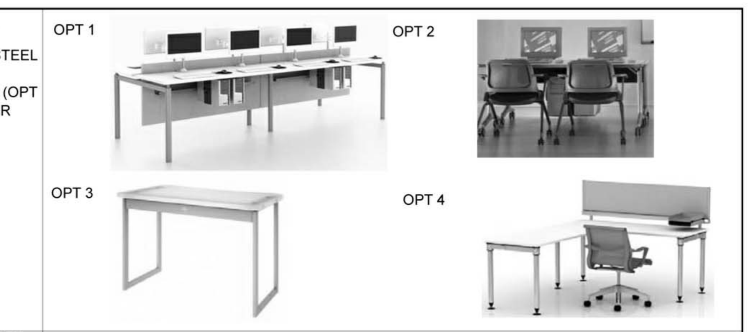
SHEET NO.
A9.70

SHEET OF
DWG. NO. -
TITLE OF PROJECT :

FURNITURE LEGEND

Revision per CD meeting #2

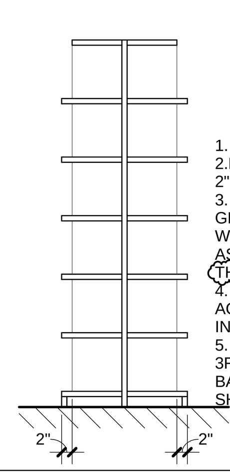
DESCRIPTION	SET	FURNITURE ITEMS INCLUDED	QUANTITY	MANUFACTURER	IMAGE
POPULAR MATERIALS	PM-1	BENCH (2 PERSONS) 52" X 22"d x 18"h	1	NELSON BENCH	
	PM-2	BOOK DISPLAY GONDOLA 3' x 3'	2	TBD	
	PM-3	SF, 90"h x 36"w x 12"d STEEL SHELVING W/ END PANELS. 6 SHELVES W/ 280 AUDIO BOOK CD-ROM	2	MONTEL	
	PM-4	SF,90"h x 36"w x 12"d STEEL SHELVING. 6 SHELVES W/ 320 LARGE PRINT W/ END PANELS	2	MONTEL	
	PM-5	DF, 66"h x 36"w x 12"d STEEL SHELVING. 4 SLIDING BROWSER BOXES W/600 AUDIO CD'S	6	MONTEL	
	PM-6	DF, PAPERBACK ROTOR TOWER, 66"h. 6 TIERS PER TOWER (could be 5..), 1,715 PAPERBACKS	8	MONTEL	
	PM-7	SF, UNIVERSAL DISPLAY SHELVES 90"h HOLDING 2,000 DVDS	8 sf		
CUSTOMER SERVICE	CS-1	SELF CHECK OUT MACHINE AND KIOSK. 36"w x 24"d x 48"h FREESTANDING	2	TBD	
	CS-2	CUSTOMER SERVICE DESK & CHAIR, 5' LONG	1	TBD	
	CS-3	FREESTANDING COPIER	1	TBD	
	CS-4	SF, SHELVING, 90"h x 36"w x 12"d W/7 SHELVES	4	MONTEL	
COLLECTION AND SEATING	CC-1	LOUNGE CHAIR, 36"w x 21"d	6	HERMAN MILLER SWOOP (OPT1), OR ALLERMUIR - FIFTY SERIES (OPT 2)	
	CC-3	READER'S CHAIR 21"w x 21"d	18	TMC ENSHELL (OPT 1), KNOLL (OPT 2), HAYWORTH VERY (OPT 3), SOURCE TIER 490 (OPT 4), OR BERNHARDT DESIGN COAST (OPT 5)	
	CC-4	READER'S TABLE 48"w x 42"w x 28.5"h (2 PERSONS) INTEGRATED WIDE MANAGEMENT REQUIRED. (1)	5	HIVE MODERN (OPT 1), TMC FLICK (OPT 2), LELAND MARQUETTE (OPT 3), OR SPARKEOLOGY "CAL" (OPT 4)	
	CC-5	SF, 90"h STEEL SHELVING W/6 SHELVES. 36"w x 12"d (1,200 TEEN COLLECTIONS)	7	MONTEL	
	CC-6	SF, 24"h STEEL SHELVING W/6 SHELVES. 36"w x 24"d (144 REFERENCE). *SEE PLAN FOR END PANEL LOCATIONS	2	MONTEL	
	CC-7	DF 90"h STEEL SHELVING W/12 SHELVES. 36"w x 24"d (4,250 NON-FICTION)	12	MONTEL	
	CC-8	SF 90"h STEEL SHELVING W/12 SHELVES. 36"w x 24"d (1,960 SPANISH LANGUAGE)	8	MONTEL	
	CC-9	DF 90"h STEEL SHELVING W/12 SHELVES. 36"w x 24"d (2,100 FICTION)	6	MONTEL	
	CC-10	66"h x 36"w x 14"d SHELVING W/4 SHELVES (48 CURRENT MAGAZINES).	2	MONTEL	
	CC-11	NOT USED			
	CC-12	30"h x 36"w x 12"d NEWSPAPER SHELVING W/2 SHELVES (9 CURRENT NEWSPAPERS). SLOPING SHELF	3	MONTEL	
GROUP STUDY ROOMS	GS-A	CHAIR AT TABLE	4	TMC ENSHELL (OPT 1), KNOLL (OPT 2), HAYWORTH VERY (OPT 3), SOURCE TIER 490 (OPT 4), OR BERNHARDT DESIGN COAST (OPT 5)	
		TABLE, GROUP STUDY, 48"dia x 29"h (4 PERSONS)	1	HIVE MODERN	
	WB	WHITE BOARD 4' X 10' ERASABLE MARKER BOARD	1	TBD	
	GS-B	CHAIR AT TABLE	4		
		TABLE, GROUP STUDY, 48"dia x 29"h (4 PERSONS)	1		
	WB	WHITE BOARD 4' X 10' ERASABLE MARKER BOARD	1	TBD	
	GS-C	CHAIR AT TABLE	4		
		TABLE, GROUP STUDY, 48"dia x 29"h (4 PERSONS)	1		
	WB	WHITE BOARD 4' X 10' ERASABLE MARKER BOARD	1	TBD	
COMMONS AREA	C-1	TECHNOLOGY TABLE (42"w x 24"d x 29"h) INTEGRATED WIDE MANAGEMENT REQUIRED (1)	14	AGATI ELEMENTS W/ MODESTY & PRIVACY PANELS (OPT 1), ALLSTEEL "GET TABLE" (OPT 2), SPARKEOLOGY "STU" (OPT 3), OR HERMAN MILLER "SENSE" (OPT 4)	
	C-2	TASK CHAIR	12	ALLSTEEL INSPIRE (OPT 2), OR KNOLL TASK (OPT 3)	
CHILDREN'S LIBRARY	CL-1	TABLE, JUVENILLE, 48"dia x 27"h (4 PERSONS), RESIN	4	HIVE MODERN (OPT 1), OR LELAND MARQUETTE LITTLE (OPT 2)	
	CL-2	CHAIR	16	TMC ENSHELL (OPT 1), KNOLL (OPT 2), HAYWORTH VERY (OPT 3), SOURCE TIER 490 (OPT 4), OR BERNHARDT DESIGN COAST (OPT 5)	
	CL-3	SF 66"h x 36"w x 12"d STEEL SHELVING W/4 SHELVES (2,250 JUVENILLE NON-FICTION)	12	MONTEL	
	CL-4	SF 66"h x 36"w x 12"d STEEL SHELVING W/5 SHELVES (1,680 JUVENILLE FICTION)	7	MONTEL	
	CL-5	SF 45"h x 36"w x 12"d STEEL SHELVING W/5 SHELVES (630 CHILDREN'S EASY READERS)	3	MONTEL	
	CL-6	SF 66"h x 36"w x 12"d SHELVING W/4 SHELVES (12 CURRENT CHILDREN MAGAZINES)	1	MONTEL	
	CL-7	66"h x 36"w x 12"d SF W/4 SLIDING BROWSER BOXES, 96 AUDIO CD'S/BOX, 350 COMPACT DISKS	2	MONTEL	
	CL-8	PAPERBACK ROTOR TOWER SF 66" SHELVING UNIT, 2 TOWER W/6 TIERS PER TOWER (840 CHILDREN'S PAPERBACKS)	3	MONTEL	
	CL-9	66"h DF UNIVERSAL DISPLAY SHELVES, SHELVING UNIT DISPLAY SLOTTED FOR 780 DVDS (W/ END PANELS)	2	MONTEL	

CHILDREN'S TECHNOLOGY	CT-1	TECHNOLOGY TABLE 42"w x 24"d x 29"h	10	AGATI ELEMENTS W/ MODESTY & PRIVACY PANELS (OPT 1), ALLSTEEL "GET TABLE" (OPT 2), SPARKEOLOGY "STU" (OPT 3), OR HERMAN MILLER "SENSE" (OPT 4)	
	CT-2	TASK CHAIR	8	ALLSTEEL INSPIRE (OPT 2), OR KNOLL TASK (OPT 3)	
EARLY LITERACY AREA	EL-1	CHAIR AND A HALF	2	KNOLL	
	EL-2	CHILDREN'S SOFT SCULPTED FURNTIURE	3	GEHRY KIDS FURNITURE (OPT 1), STEELCASE RIPPLE (OPT 2)	
	EL-3	TECHNOLOGY BENCH 48"w x 16"h	3	TBD	
	EL-4	TECHNOLOGY TABLE FOR EARLY LEARNING COMPUTERS (28"d x 48"w x 25"h)	3	TBD	
	EL-5A	SF 45"h x 36"w x 24"d STEELSHELVING (2,500 CHILDREN'S PICTURE BOOKS)	6		
	EL-5B	SF 36"h x 36"w x 12"d STEELSHELVING (2,500 CHILDREN'S PICTURE BOOKS)	6		
	EL-6	BENCH, 6' long x 15"h	1	TBD	
SUPPORT SERVICES	AM	AUTOMATED MATERIALS HANDLING SYSTEM, 4 BIN SORTER WITH STAFF INDUCTION AND 1 CUSTOM STATION	1		
BRANCH MANAGER	BM-1	SUPERVISOR'S CHAIR	1	(SAME AS TASK CHAIR)	
	BM-2	VISITORS CHAIR	2 (1)	ENSHELL	
	BM-3	LATERAL 4 DRAWER FILE CABINET 36"w x 18"d x 52"h	1	MONTEL	
	BM-4	SHELVING, SF 84"h x 36"w x 12"d STEEL W/6 SHELVES	2	MONTEL	
	BM-5	OFFICE WORKSTATION	1	TBD	
LIBRARY STORAGE	S-1	STORAGE SHELVING 36"w x 16"d x 90"h (ROOMS 107 & 117)	8	MONTEL	
	S-2	STORAGE SHELVING, WALL STANDARDS & BRACKETS, 64"w x 18"d x 90"h	1	KNAPP-VOIGHT	
STAFF LOUNGE	SL-1	CAFÉ CHAIR	2	SPARKEOLOGY "AL" AND "PETE"	
	SL-2	LOUNGE CHAIR	1	HERMAN MILLER SWOOP (OPT1), OR ALLERMUIR - FIFTY SERIES (OPT 2)	
	SL-3	LOCKERS 12"w x 12"d x 62"h	1	TBD	
		BULLETIN BOARD	1		
STAFF SERVICES WORKROOM	SW-1	BOOK TRUCK 36"w x 24"d	6	TBD	
	SW-2	OFFICE CHAIR	7 (1)	(SAME AS TASK CHAIR)	
	SW-3	VERTICAL 4 DRAWER FILING CABINET (18"w x 36"d x 10"h)	2	TBD	
	SW-4	SHELVING SF 90"h x 36"w X 12"d STEEL W/7 SHELVES	4	MONTEL	
	SW-5	CLERICAL COUNTER WORKSTATION 5'w x 30"d	4	HERMAN MILLER CANVAS OFFICE (OPT 1), ALLSTEEL - ALIGH OFFICE STATION (OPT 2), AND HERMAN MILLER VERY TASK (OPT 3)	
	SW-6	OFFICE SYSTEM WORKSTATION, SEE PLAN	2	TBD	
	SW-7	WORKSURFACE W/ BOOK TRUCKS BELOW 4'w x 12'long x REQ'D	1	ALL STEEL	
	SW-8	FILE CABINET (VERTICAL) 18"w x 29"d x 52"h	2		
	SW-9	COMPUTER WORKSTATION	1		
	SW-10	TALL CABINET 5'w x 2'd	1		
		BULLETIN BOARD	1		
		IN & OUT BOARD	1		
		KEY CABINET	1		
		SAFE (FLOOR) 12"w x 14"d x 21"h	1		
		WASTE BASKET 13"w x 15"d x 15"h	6		
		WHITE BOARD 48"w x 36"h	1		
COMMUNITY ROOM	CR-1	DOLLY CHAIR 24"w x 36"d (CHAIRS STACKED)	5		
	CR-2	MEETING TABLE 70"w x 31"d x 29"h (FOLDING/ NESTING)	12	ALLSTEEL GET TABLE	
	CR-3	INDUSTRIAL SHELVING SF 36"w x 24"d x 84" W/6 SHELVES	1		
	CR-4	MEETING ROOM CHAIRS 25"w x 21"d (STACKING)	50	KNOLL	
	CR-5	LECTURN 31"w x 29"d W/ MICROPHONE, LIGHT, SPEAKER, & CLOCK	1		
		FLIP CHART W/STAND	1		

EQUIPMENT LEGEND

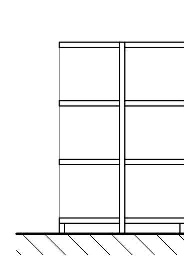
DESCRIPTION	SET	FURNITURE ITEMS INCLUDED	QUANTITY
CUSTOMER SERVICE		CHANGE MACHINE	1
		VENDOR CARD ENCODER/DISPENSER	1
		CASH REGISTER	1
		COPIER, COLOR FREESTANDING	1
GROUP STUDY ROOMS		CLOCK, WALL-MOUNTED (1 PER STUDY ROOM)	3
COMMONS AREA		LG LCD DISPLAY	1
BRANCH MANAGER		CLOCK, WALL-MOUNTED	1
STAFF LOUNGE		COFFEE MAKER/ URN	1
		MICROWAVE OVEN	1
		REFRIGERATOR	1
STAFF SERVICES WORKROOM		CLOCK, WALL-MOUNTED	1
CUSTODIAL		LADDER, STEP	1
KITCHENETTE		MICROWAVE OVEN	1
		REFRIGERATOR	1
COMMUNITY ROOM		CLOCK, WALL-MOUNTED	1
		PROJECTION SCREEN, WALL-MOUNTED	1
		PROJECTOR, CLG-MOUNTED	1

3FORM PANELS



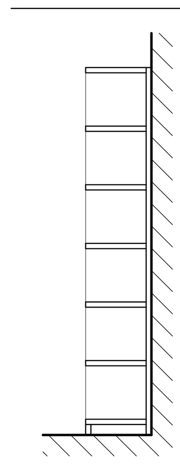
1. FLUSH BASE SHELVING , CANTILEVER.
2.HOLD END PANELS & CANOPY TOP IN 2" FROM ENDS OF SHELVING.
3. PROVIDE CUSTOM 3FORM PANEL W/ GROOVES TO ACCOMODATE "SLAT WALL" SYSTEM COMPONENT INSERTION AS PER PLAN.
THICKNESS 1" MIN BD, CONSULT FAB. (1)
4. PROVIDE 3FORM END PANEL TO ACCOMODATE "OPAC" EQUIPMENT INSTALL AS PER PLAN.
5. ALLOW FOR CUSTOM COLOR ON 3FORM ECO RESIN, THICKNESS TBD BASED ON STABILITY GIVEN HEIGHT OF SHELVING.

CORIAN PANELS



1. FLUSH BASE, CANTILEVER SHELVING.
2. END PANEL & CANOPY TOP FLUSH FINISH TO ENDS OF SHELVING.
3. PROVIDE END PANEL TO ACCOMODATE "OPAC" EQUIPMENT INSTALL AS PER PLAN. (1)
4. WHITE COLOR ON CORIAN, THICKNESS TBD BASED ON STABILITY GIVEN HEIGHT OF SHELVING.

STEEL PANELS



1. FLUSH BASE SHELVING , CANTILEVER.
2. END PANEL & CANOPY TOP FLUSH FINISH TO ENDS OF SHELVING.
3. PROVIDE "FALSE PANELS" AS PER PLAN TO COVER GAPS BETWEEN ALCOVE WALLS AND SHELVING..

GENERAL NOTES:
1. SEE FURNITURE PLAN ON SHEET A9.91 FOR LOCATIONS OF END PANELS (EP).

END PANEL SCHEDULE:
EP1 - 3 FORM ECO RESIN (SEE SPEC FOR COLOR)
EP2 - 3 FORM W/ GROOVES, MILLED FOR INSTALL/ USE W/ "SLATWALL" COMPONENTS
EP3 - 3FORM W/ OPAC EQUIPMENT INTEG
EP4 - CORIAN SOLID SURFACE
EP5 - CORIAN SOLID SURF W/ OPAC INTEG
EP6 - STEEL
EP7 - "FALSE" PANELS

NOTES:
1. ALL SHELVING W/ CANOPY TOP MATERIAL TO MATCH END PANEL, WIDTH TO MATCH END PANELS.
2. END PANELS ON ALL SHELVING AGAINST WALL TO BE FULL DEPTH OF BASE SHELF.
3. END PANELS ON ALL FREE STANDING SHELVING TO BE 2" LESS THAN THE DEPTH OF THE UPPER SHELF, BOTH SIDES.
4. PROVIDE SINGLE (ONE LARGE) END PANEL AT DOUBLE SIDED SHELVING.

3FORM PANELS APPLICATION
LOCATION:
-COMPUTER TABLE SCREENS
-END PANELS
-CABINET DOORS
PRODUCT:
"CHROMA"
GUAGE:
-1/2" @ COMPUTER SCREENS @ CABINET
-1" @ END PANELS - THOCKNESS TBD BY MANUFACTURER
RENEWABLE MATTE MATTE SURFACE FINISH, UV PROTECTION AND EDGE SEAL.
COLOR:
GRASS, INFUSED SURF
(1)

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ARCHITECT'S PROJECT NO.
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DATE : ______ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
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DEPARTMENT OF PUBLIC WORKS

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

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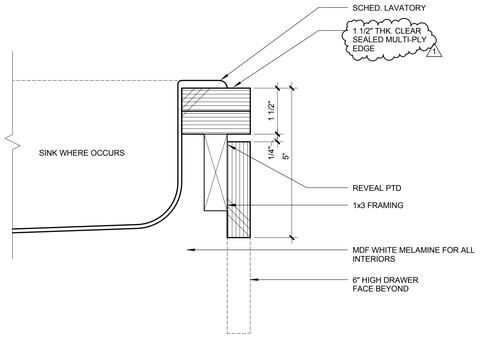
ISSUE
ADDENDUM 2

DATE
02/21/2012

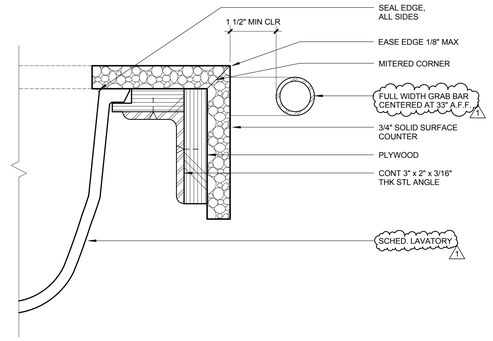
DRAWING NO. **6693**

SHEET TITLE
FURNITURE LEGEND

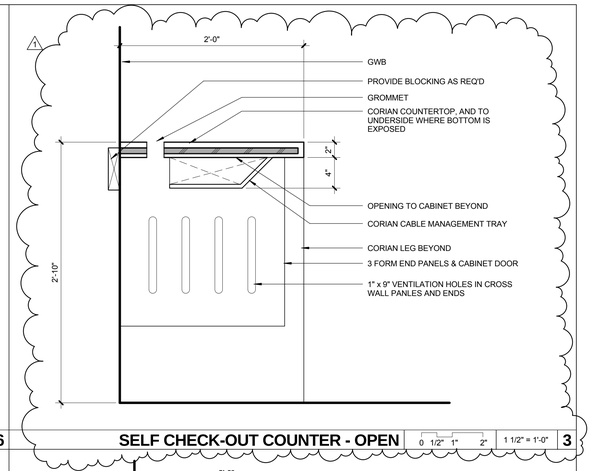
SHEET NO.
A9.71



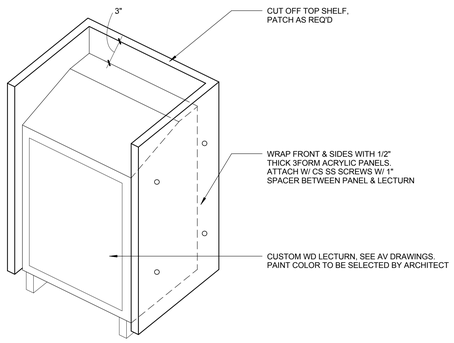
PLASTIC LAMINATE COUNTERTOP EDGE | 0 1/2" 1" 2" | 6" = 1'-0" | 9



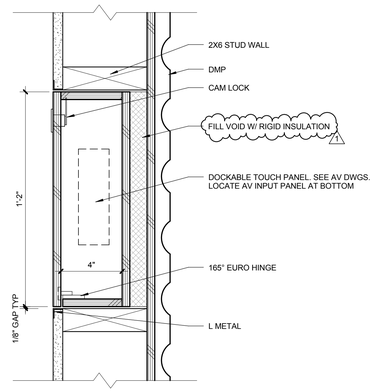
SOLID SURFACE COUNTER EDGE | 0 1/2" 1" 2" | 6" = 1'-0" | 6



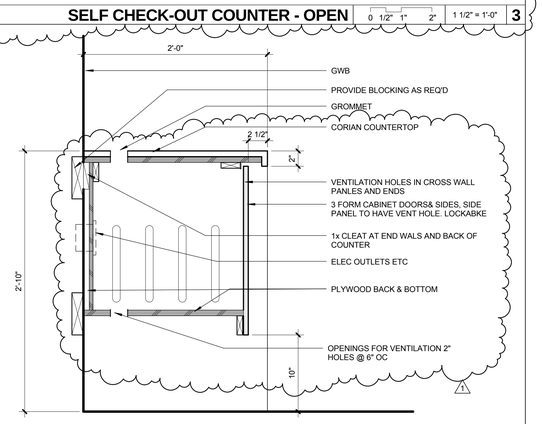
SELF CHECK-OUT COUNTER - OPEN | 0 1/2" 1" 2" | 1 1/2" = 1'-0" | 3



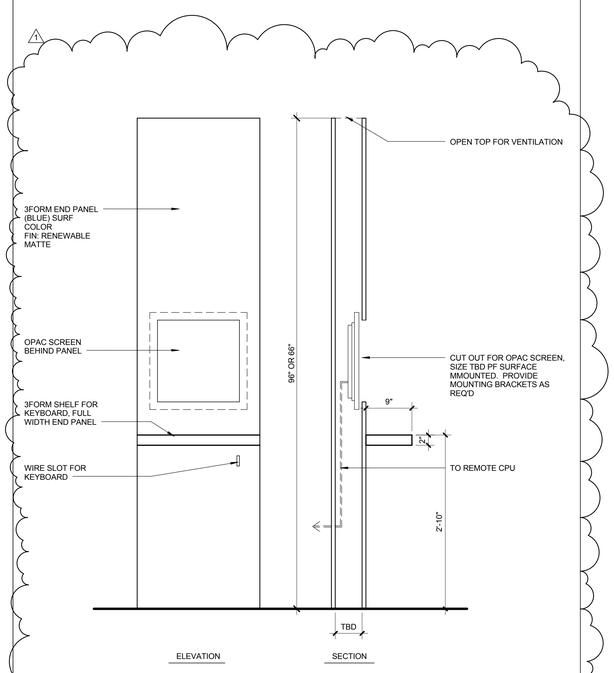
LECTURN WRAP | 8



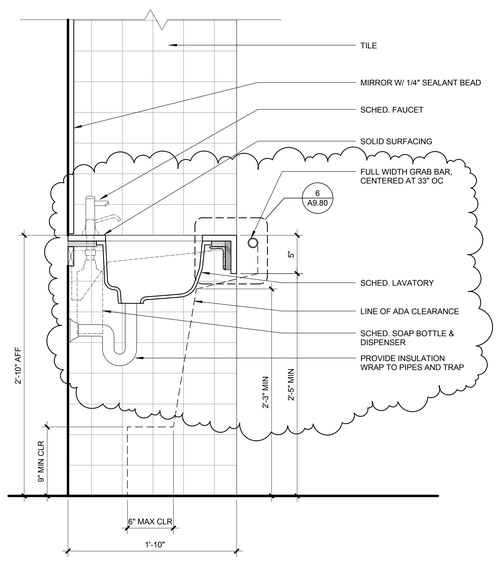
AV CABINET - PLAN | 0 1" 2" 4" | 3" = 1'-0" | 5



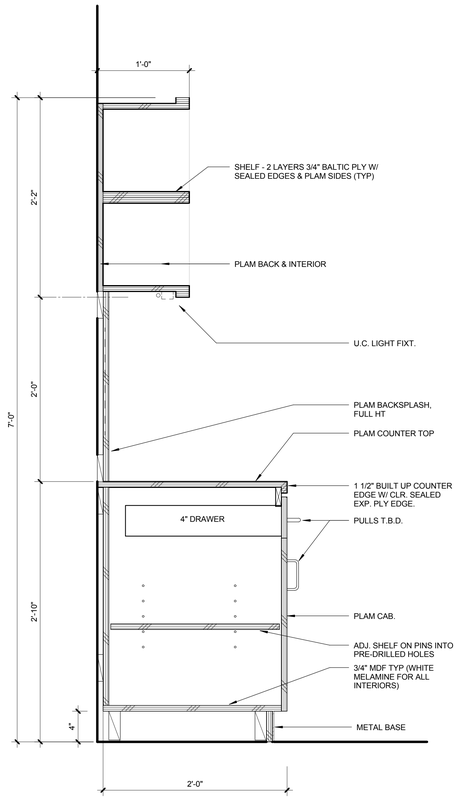
SELF CHECK-OUT COUNTER | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 2



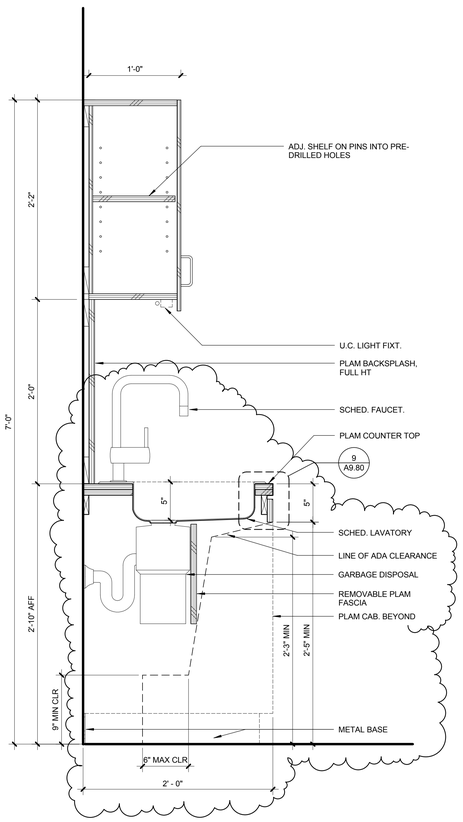
OPAC STATION | 0 3" 6" 1' | 1" = 1'-0" | 10



SINK @ RESTROOM COUNTER | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 7



LOUNGE COUNTER | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 4



PANTRY COUNTER | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | 1

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SUBMITTED BY :

DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

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1	02/21/12		ADDENDUM 2

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ISSUE
ADDENDUM 2

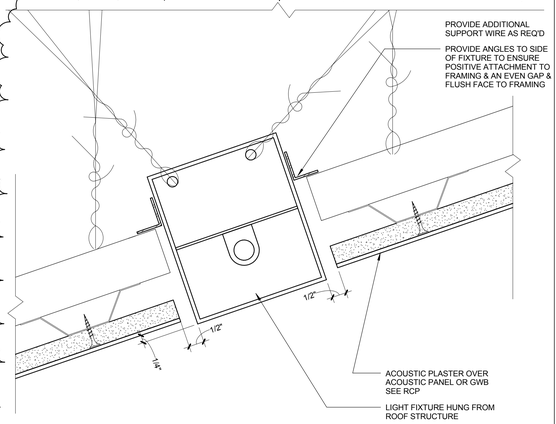
DATE
02/21/12

DRAWING NO. **6693**

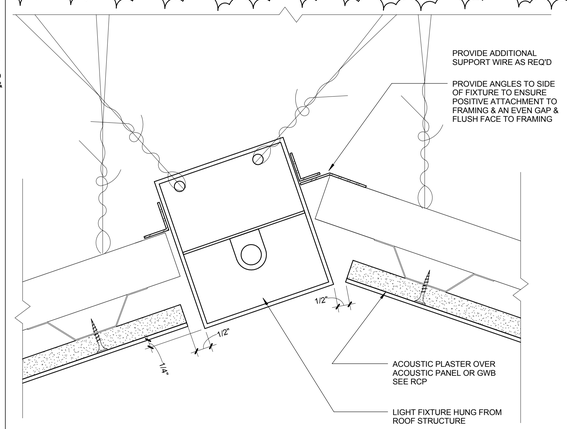
SHEET TITLE
MILLWORK DETAILS

SHEET NO.
A9.80

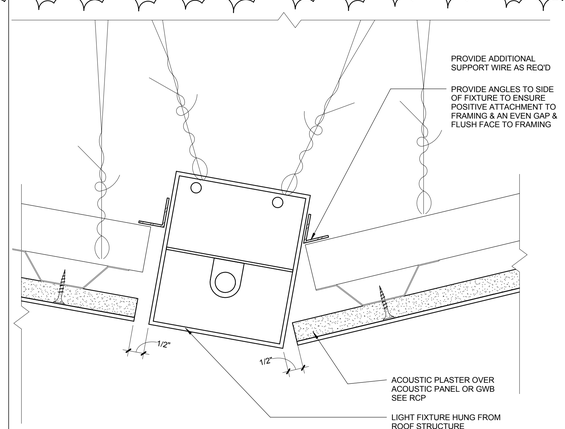
SHEET 0F
DWG NO. - -
TITLE OF PROJECT



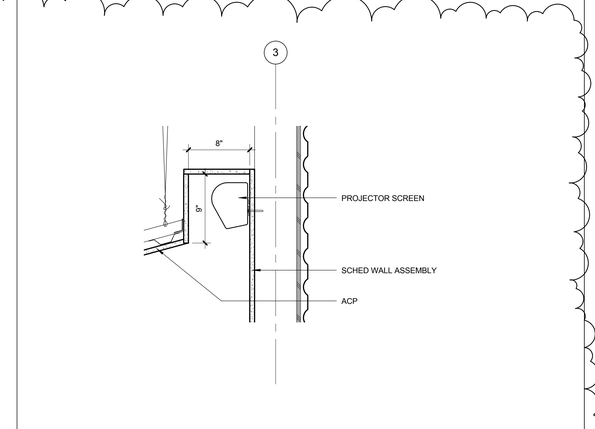
LIGHT IN CEILING - STRAIGHT | 0 1/2" 1" 2" | 6" = 1'-0" | **16**



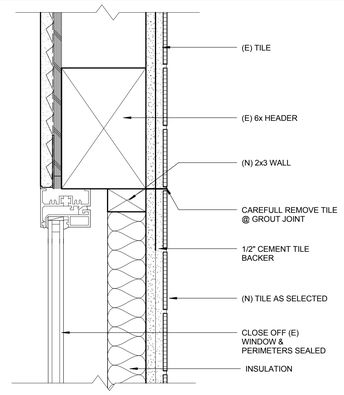
LIGHT IN CEILING - VALLEY | 0 1/2" 1" 2" | 6" = 1'-0" | **12**



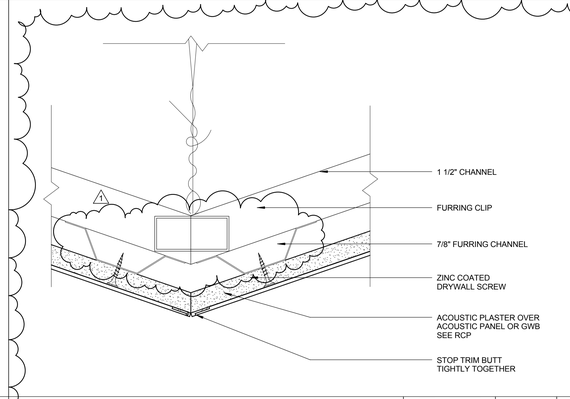
LIGHT IN CEILING - FOLD | 0 1/2" 1" 2" | 6" = 1'-0" | **8**



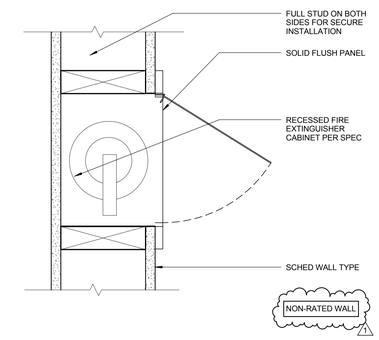
PROJECTOR SCREEN | 0 2" 4" 6" 8" | 1 1/2" = 1'-0" | **4**



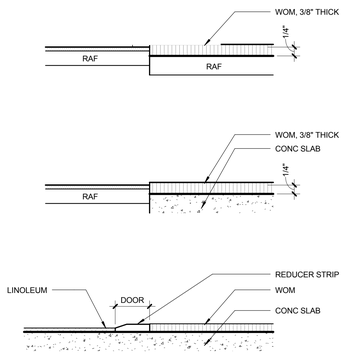
INFILL @ TT RESTROOM WNDWS | 0 1" 2" 4" | 3" = 1'-0" | **11**



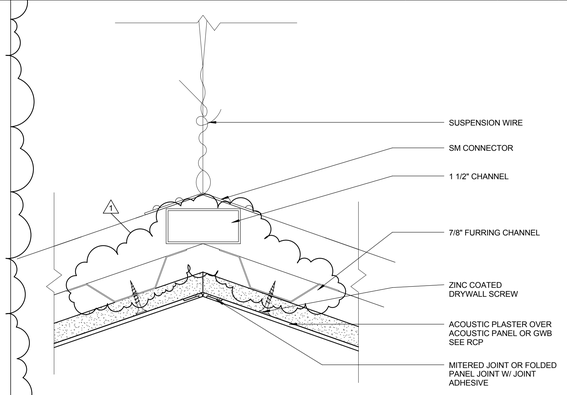
ACOUSTIC PLASTER RIDGE FOLD | 0 1/2" 1" 2" | 6" = 1'-0" | **7**



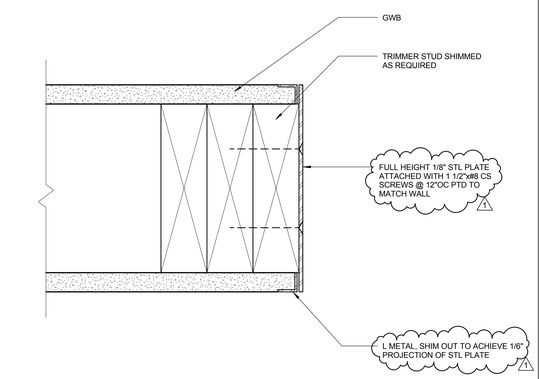
RECESSED FE CABINET | 0 1" 2" 4" | 3" = 1'-0" | **3**



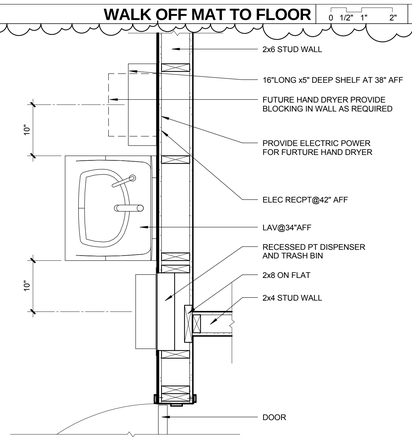
WALK OFF MAT TO FLOOR | 0 1/2" 1" 2" | 6" = 1'-0" | **10**



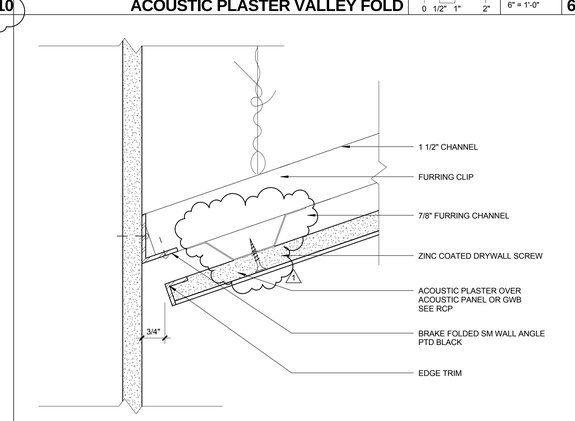
ACOUSTIC PLASTER VALLEY FOLD | 0 1/2" 1" 2" | 6" = 1'-0" | **6**



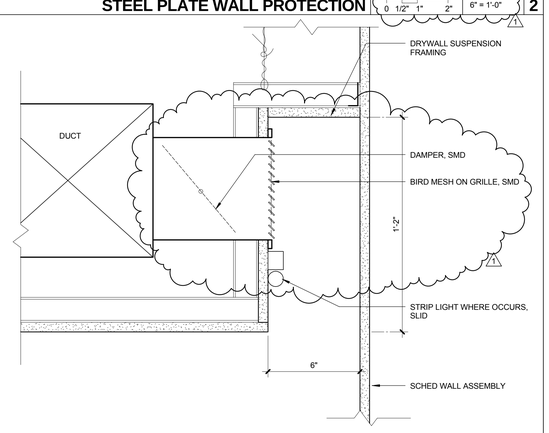
STEEL PLATE WALL PROTECTION | 0 1/2" 1" 2" | 6" = 1'-0" | **2**



PLAN DETAIL MO BATHROOM LAV | 0 3" 6" 1' | 1" = 1'-0" | **9**



ACOUSTIC PLASTER CEILING TO WALL | 0 1/2" 1" 2" | 6" = 1'-0" | **5**



LIGHT/ RETURN AIR RECESS | 0 1" 2" 4" | 3" = 1'-0" | **1**

SHEET 0F

DWG NO. -

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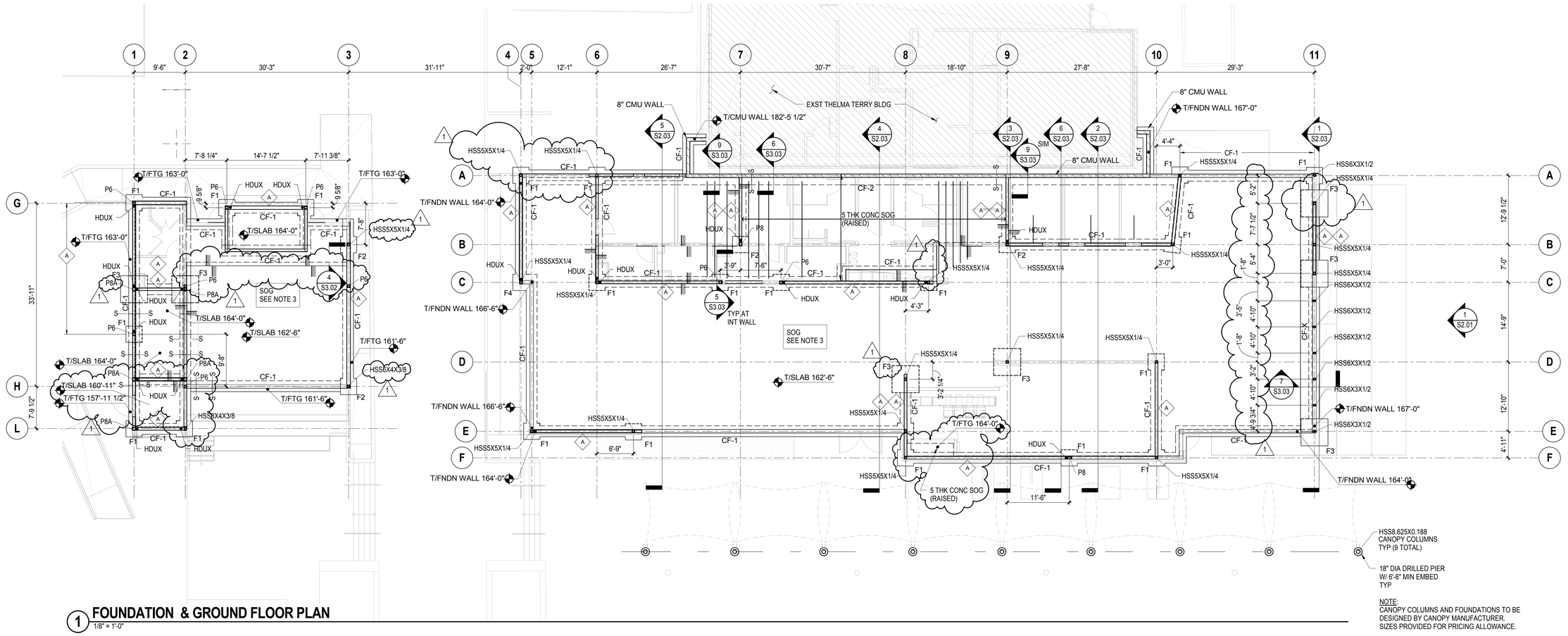
DRAWING NO. **6693**

SHEET TITLE
INTERIOR DETAILS

SHEET NO.
A9.90



NOTE:
CANOPY COLUMNS AND FOUNDATIONS TO BE DESIGNED BY CANOPY MANUFACTURER. SIZES PROVIDED FOR PRICING ALLOWANCE.

1 FOUNDATION & GROUND FLOOR PLAN

1/8" = 1'-0"

PLAN NOTES:

1. TOP OF SLAB ELEV = SEE PLAN.
2. T/FOOTINGS = -1'-0" BELOW T/SOG UON.
3. SLAB-ON-GRADE (SOG) = 5" THK, f'c = 3,000 psi, REINFORCED WITH #4@12" OC EA WAY ON COMPACTED FILL. SUBSTRATE RECOMMENDATIONS PER GEOTECHNICAL REPORT
4. VERIFY LOCATION OF UNDERGROUND UTILITES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
5. SLAB CONSTRUCTION AND CONTROL JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACING ANY CONCRETE.
6. SEE MEP DRAWINGS FOR PIPE OR CONDUITS UNDER STRIP FOOTINGS OR THROUGH FOUNDATION WALLS. MAINTAIN ADJACENT FOOTINGS AND DO NOT DISTURB SUBGRADE OF FOOTINGS DURING EXCAVATION AND PIPE CONSTRUCTION.
7. SILL BOLTS ARE REQUIRED AT ALL STUD WALLS SHOWN ON STRUCTURAL PLANS. SEE S7.__ FOR DETAILS.
8. SEE ARCH DRAWINGS FOR NON-LOAD BEARING PARTITIONS.
9. STRUCTURAL STUD WALLS SHALL BE 2x6 STUDS AT 16" OC UON. SEE S7.__ FOR TYPICAL WALL FRAMING. SEE ARCH DRAWINGS FOR NON-LOAD BEARING PARTITION WALLS.
10. ALL EXTERIOR WALLS SHALL HAVE 1/2" PLYWOOD SHEATHING ON EXTERIOR FACE OF STUDS UNLESS OTHEREWISE NOTED. SEE S7.__ FOR SCHEDULE AND MIN NAILING.
11. SEE ARCH DRAWINGS FOR WEATHER PROTECTION COATINGS AT EXPOSED WOOD FRAMING.

LEGEND:

1. T/SLAB +X'-X" — INDICATES ELEVATION MARK
2. INDICATES SHEARWALL SEE SCHEDULE ON S7.04; INDICATES SHEATHING SIDE; INDICATES BEARING AND/OR SHEARWALL
3. HDUX — INDICATES HOLDOWN SEE S7.04 FOR SCHEDULE AND DETAILS
4. STEEL COLUMN; PIER/PILASTER ABOVE; PLX EL X'-XX"; PIER/PILASTER MARK FOR DETAILS SEE SX.XX; T/PIER OR PILASTER; FOOTING MARK SEE FOOTING SCHEDULE ON S3.03; FX EL X'-XX"; FOOTING; TOP OF FOOTING EL WHERE DIFFERENT FROM TYPICAL
5. S — S — INDICATES STEP ON BOTTOM OF CONTINUOUS FOOTING SEE DETAIL 6 ON S3.02
6. PX — INDICATES WOOD POST SEE S7.03 FOR POST SCHEDULE SEE S7.04 FOR POST REQUIREMENTS AT HOLDOWNS.

SHEET REFERENCE:

1. GENERAL NOTES	S0.0X
2. ELEVATIONS & SECTIONS	S2.XX
3. TYPICAL CONCRETE DETAILS	S3.XX
4. TYPICAL STEEL DETAILS	S5.XX
5. TYPICAL CMU DETAILS	S6.XX
6. TYPICAL WOOD DETAILS	S7.XX

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APPROVED BY : Miriam Mulder, Architecture Services Manager — DATE : _____ 20__

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DEPARTMENT OF PUBLIC WORKS

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DATE
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DRAWING NO.
6693

SHEET TITLE
FOUNDATION & GROUND FLOOR PLAN

SHEET NO.
S1.00

SHEET OF

DWG NO.:

TITLE OF PROJECT:

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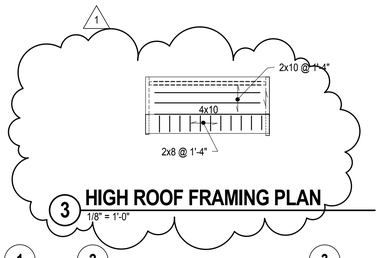
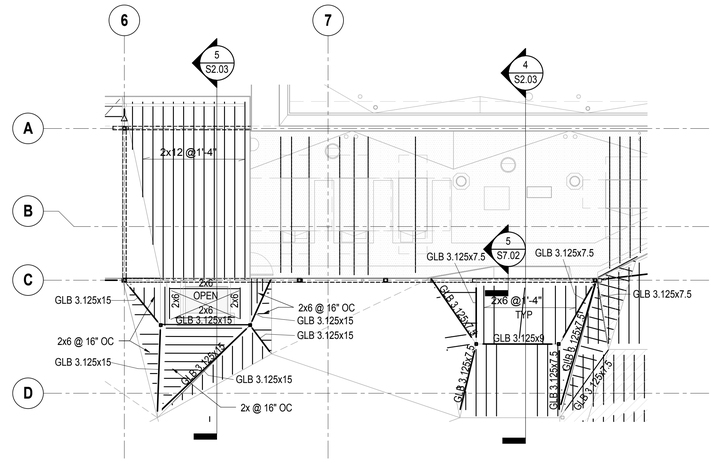
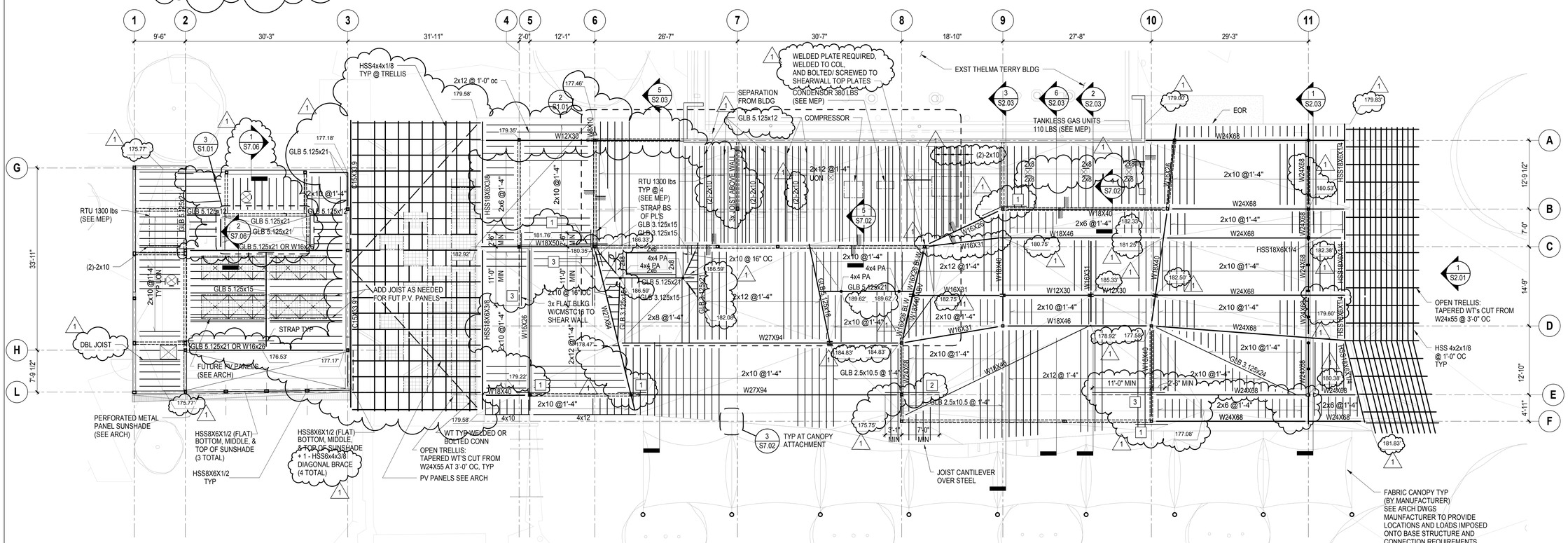


3 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"



2 SKYLIGHT FRAMING PARTIAL PLAN
1/8" = 1'-0"



1 ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES:

1. T/ROOF ELEVATION = VARIES SEE PLAN.
2. T/ROOF ELEVATION = T/ROOF 1/2" PLYWOOD SHEATHING.
3. STRUCTURAL LOAD-BEARING STUD WALLS SUPPORTING THE ROOF ARE SHOWN THUS ==== ON PLAN. SEE ARCH DRAWINGS FOR NON-LOAD BEARING PARTITIONS.
4. VERIFY ALL DIMENSIONS SHOWN AND NOT SHOWN WITH ARCH DRAWINGS.
5. FOR ROOFTOP EQUIPMENT AND ROOF OPENINGS, SEE ARCH AND MEP DRAWINGS. CONTRACTOR TO COORDINAE FINAL LOCATION OF EQUIPMENT SUPPORT BEAMS WITH EQUIPMENT REQUIREMENTS.
6. WHERE RIPPERS ARE ATTACHED TO TOP OF ROOF JOISTS (I.E. TO OBTAIN SLOPE FOR DRAINAGE), THE RIPPERS SHALL BE NAILED TO THE JOIST WITH 10d AT SPACING REQUIRED FOR DIAPHRAGM SHEAR. WHEN THE RIPPERS BECOME MORE THAN 1 1/2" DEEP, SIDE PLATES SHALL BE NAILED TO JOISTS AT SPACING REQUIRED TO TRANSFER DIAPHRAGM SHEAR.
7. MARK 1 , ETC DESIGNATE SIMPSON STRONG-TIE STRAP CONNECTION.

PLAN MARK	STRAP
1	MST48
2	CS14
3	CMSTC16

SHEET REFERENCE:

1. GENERAL NOTES	S0.0X
2. ELEVATIONS & SECTIONS	S2.XX
3. TYPICAL CONCRETE DETAILS	S3.XX
4. TYPICAL STEEL DETAILS	S5.XX
5. TYPICAL CMU DETAILS	S6.XX
6. TYPICAL WOOD DETAILS	S7.XX

LEGEND:

1. T/S +X'-X" — INDICATES TOP OF SHEATHING ELEVATION
2. T/STL+X'-X" — INDICATES TOP OF STEEL ELEVATION
3. INDICATES TOP STEEL SPLICE
4. GLB — INDICATES GLULAM BEAMS
5. INDICATES GRAVITY MOMENT CONNECTION

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SHEET TITLE
ROOF FRAMING PLAN

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S1.01

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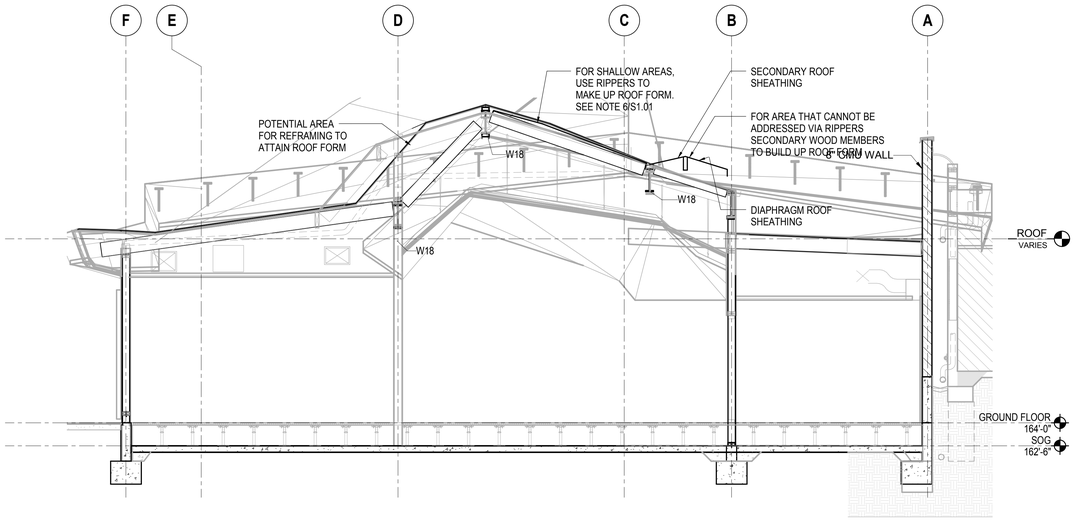
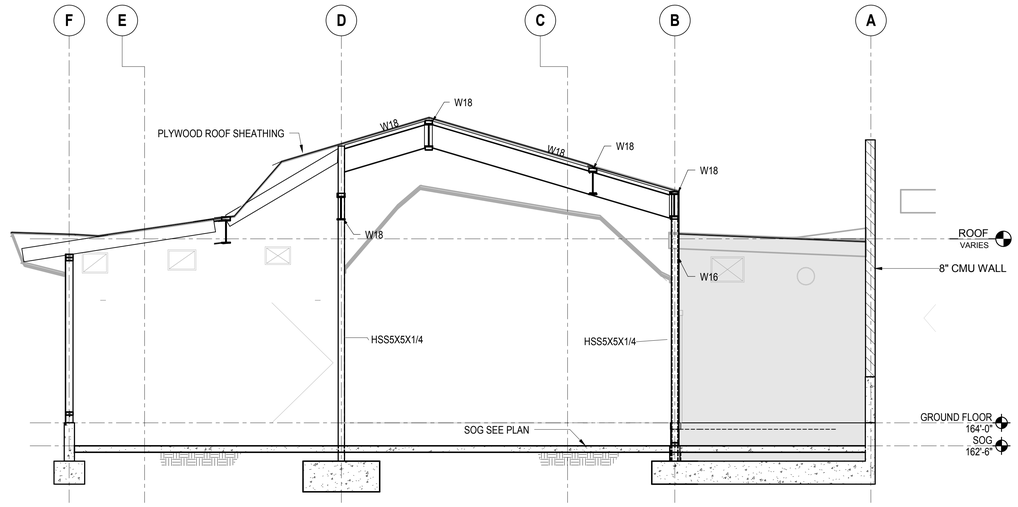
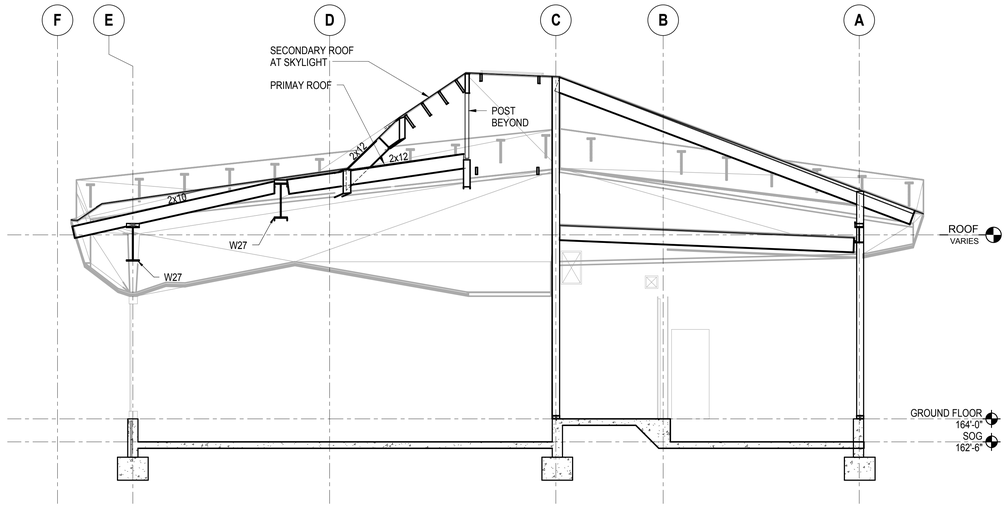


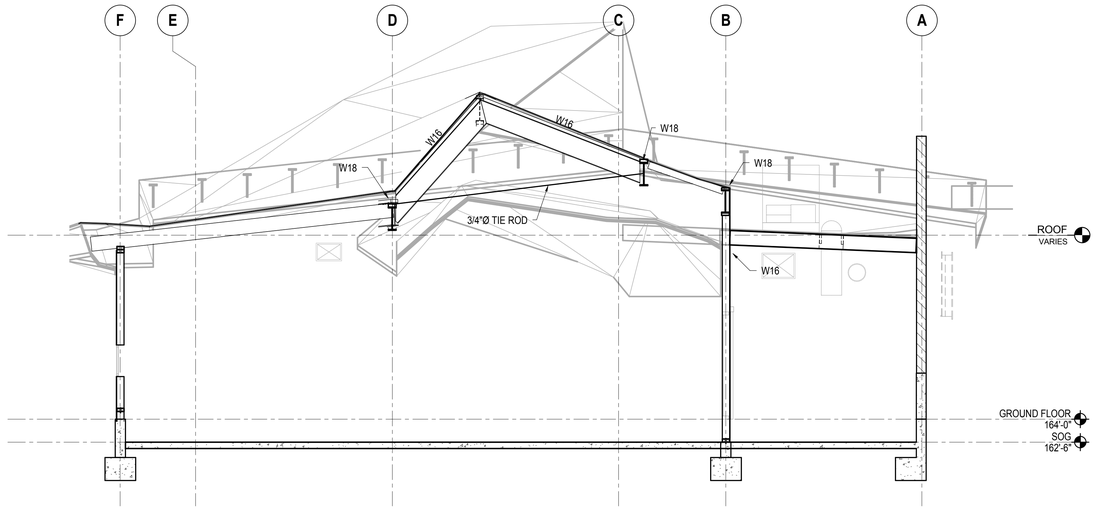
6 SECTION EAST OF GRIDLINE 7
1/4" = 1'-0"



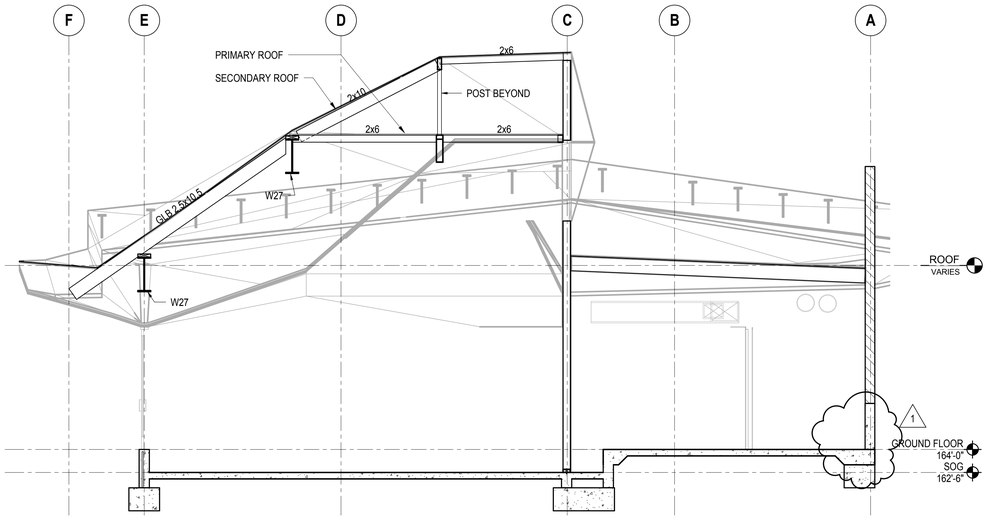
3 SECTION NEAR GRIDLINE 8
1/4" = 1'-0"



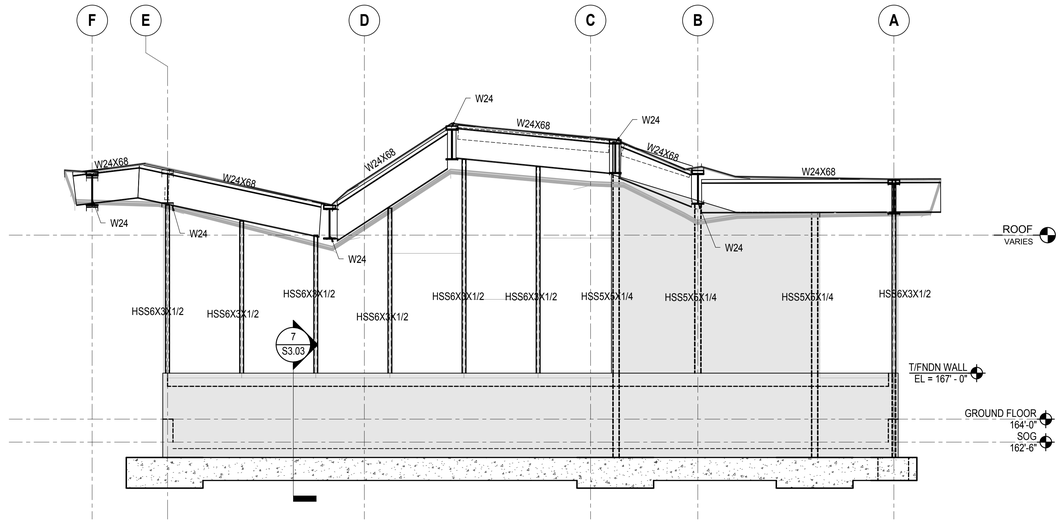
5 SECTION NEAR GRIDLINE 6
1/4" = 1'-0"



2 SECTION BETWEEN GRIDLINE 8 AND 9
1/4" = 1'-0"



4 SECTION NEAR GRIDLINE 7
1/4" = 1'-0"



1 SECTION AT GRIDLINE 11
1/4" = 1'-0"

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Architecture Services Manager

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SHEET TITLE
SECTIONS

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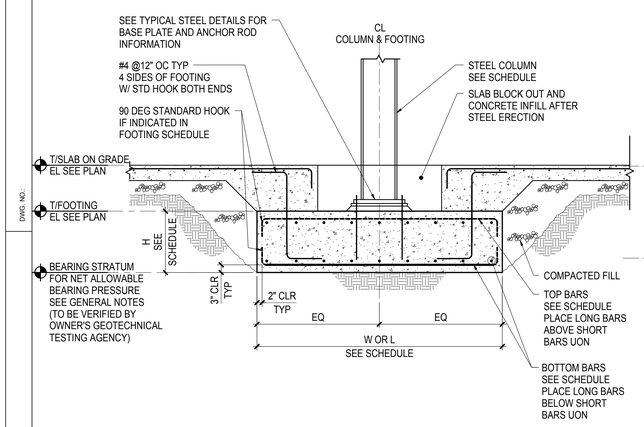
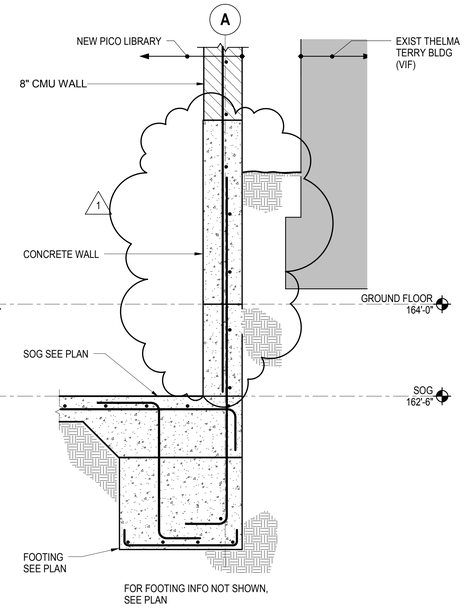
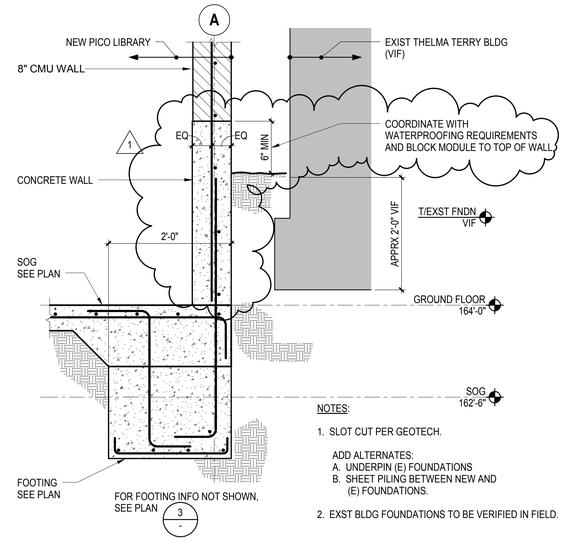


12 COLUMN FOOTING
1/2" = 1'-0"



9 TYP FOUNDATION SECTION AT EXISTING BUILDING
1" = 1'-0"



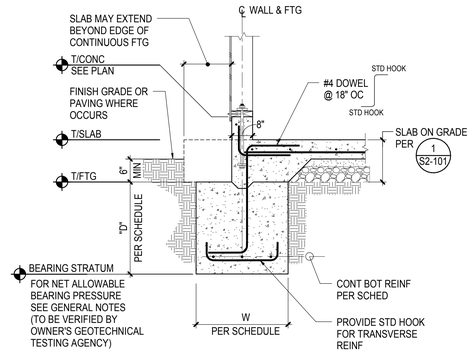
NOTES:

1. SLOT CUT PER GEOTECH.

ADD ALTERNATES:
A. UNDERPIN (E) FOUNDATIONS
B. SHEET PILING BETWEEN NEW AND (E) FOUNDATIONS.

2. EXST BLDG FOUNDATIONS TO BE VERIFIED IN FIELD.

6 TYP FOUNDATION SECTION AT EXISTING BUILDING
1" = 1'-0"



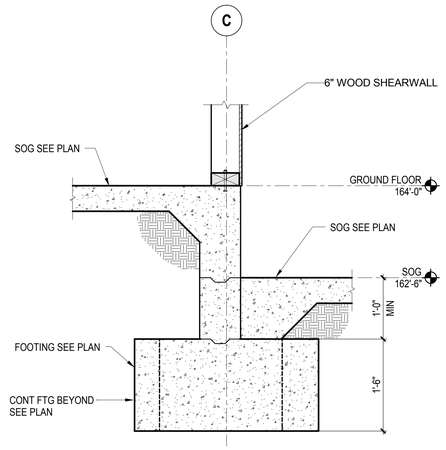
3 EXTERIOR CONTINUOUS FOOTING
3/4" = 1'-0"

ISOLATED FOOTING SCHEDULE						f'c =SEE GENERAL NOTES
MARK	SIZE			REINFORCEMENT		REMARKS
	L	W	H	BOTTOM BARS	TOP BARS	
F1	3'-0"	3'-0"	1'-6"	4-#4 EA WAY	4-#4 EA WAY	
F2	4'-0"	4'-0"	2'-0"	5-#5 EA WAY	5-#5 EA WAY	
F3	5'-0"	5'-0"	2'-0"	6-#5 EA WAY	6-#5 EA WAY	
F4	3'-0"	5'-0"	1'-6"	4-#5 LONG 6-#5 SHORT	4-#5 LONG 6-#5 SHORT	

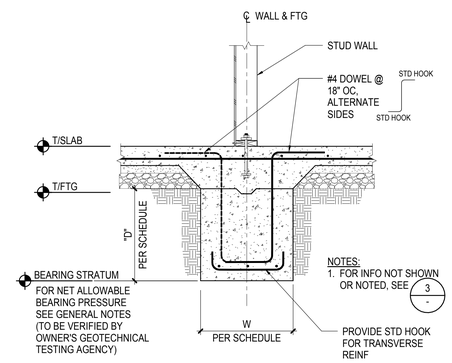
NOTE:

1. REINFORCEMENT SHALL NOT BE SPLICED WITHOUT WRITTEN AUTHORIZATION OF STRUCTURAL ENGINEER.

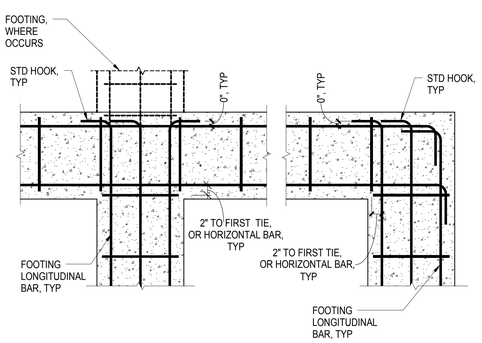
11 ISOLATED FOOTING SCHEDULE
12" = 1'-0"



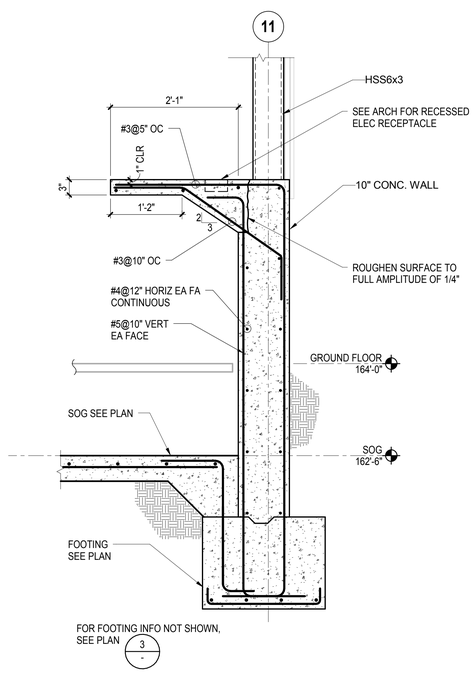
5 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"



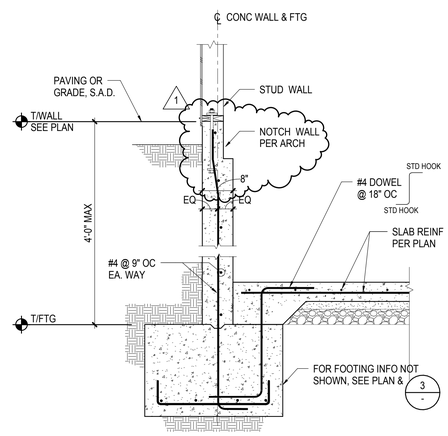
2 INTERIOR CONTINUOUS FOOTING
3/4" = 1'-0"



10 CONTINUOUS FOOTING INTERSECTIONS
1" = 1'-0"



7 TYP FOUNDATION SECTION AT EAST GLAZING
1" = 1'-0"



4 EXTERIOR WALL FOOTING AT LOW GRADE
3/4" = 1'-0"

CONTINUOUS FOOTING SCHEDULE					
MARK	W	D	LONG BARS	TRANSVERSE BARS	DETAIL
CF-1	2'-0"	1'-6"	3-#5	#4@12 OC, UON	3 -
CF-2	2'-0"	2'-0"	3-#5	#5@12 OC, UON	3 -
CF-3	3'-0"	2'-0"	4-#5	#6@12 OC, UON	3 -

NOTES:

1. WHERE CONTINOUS FOOTING INTERSECTS COLUMN FOOTING, EXTEND LONGITUDINAL REINFORCING THRU COLUMN FOOTING, SEE 12 -.
2. WHERE CONTINUOS FOOTING TERMINATES AT COLUMN FOOTING, EXTEND LOGITUDINAL REINF Ldn MIN INTO PER PENDICULAR FOOTING, UON.
3. STEP CONTINUOUS FOOTINGS WHEN TOP OF INTERSECTING FOOTINGS ARE DIFFERENT ELEVATIONS, SEE PLAN AND 6 S3.02.
4. FOR INTERSECTING FOOTING REINFORCEMENT, SEE 10 -.

1 CONTINUOUS FOOTING SCHEDULE
NOT TO SCALE

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SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

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S3.03

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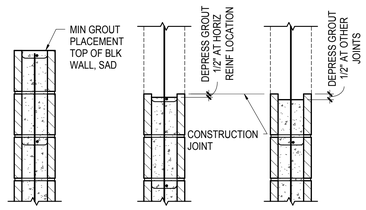
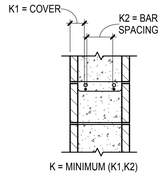


WALL SECTION VIEW

BAR SIZE	LAP SPLICE LENGTH (f'm = 2500 PSI) FOR K ≥ 2db	FOR K ≥ 3db	FOR K ≥ 4db
#3	N.A.	1'-8"	1'-3"
#4	3'-0"	2'-2"	1'-8"
#5	3'-9"	2'-9"	2'-1"
#6	4'-6"	4'-3"	3'-3"
#7	5'-3"	5'-0"	3'-9"
#8	6'-0"	6'-0"	4'-11"
#9	6'-10"	6'-10"	5'-6"

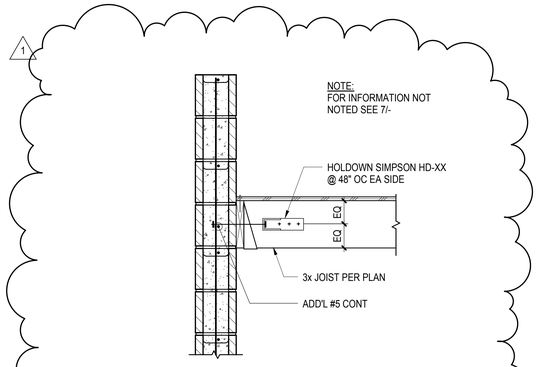


(A) "K" DIMENSION

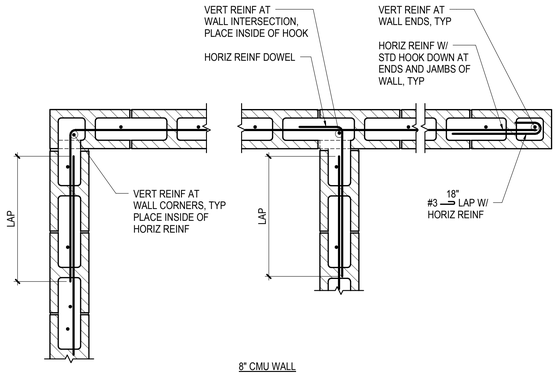
NOTES:
1. "K" SHALL BE TAKE AS THE CMU COVER DIMENSION OR THE CLEAR SPACING BETWEEN ADJACENT BARS, WHICHEVER IS LESS. SEE DETAIL "A" ABOVE.
2. WHERE EPOXY-COATED REINFORCING IS USED, INCREASE LAP SPLICE LENGTH BY 50%.
3. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
4. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
5. "N.A." MEANS "NOT ALLOWABLE". INCREASE "K" FOR ALLOWABLE LAP SPLICE.

(6) CMU WALL CONSTRUCTION JOINTS
1" = 1'-0"

(3) REBAR OFFSET AND LAP SPLICE CMU f'm = 2500 PSI
1" = 1'-0"

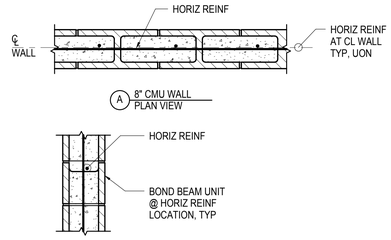


(8) CMU WALL TIE AT PERPENDICULAR JOISTS
1" = 1'-0"



8" CMU WALL

(5) CMU WALL CORNERS & INTERSECTIONS
1" = 1'-0"



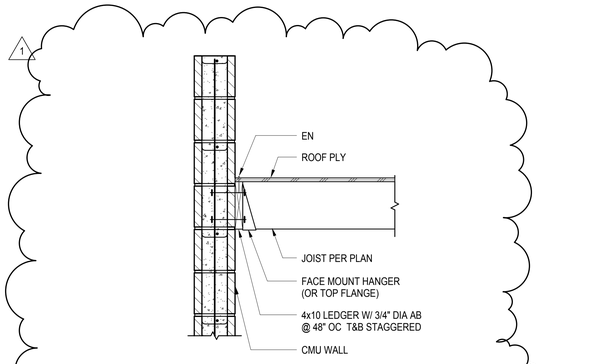
(A) 8" CMU WALL PLAN VIEW

(B) SECTION VIEW

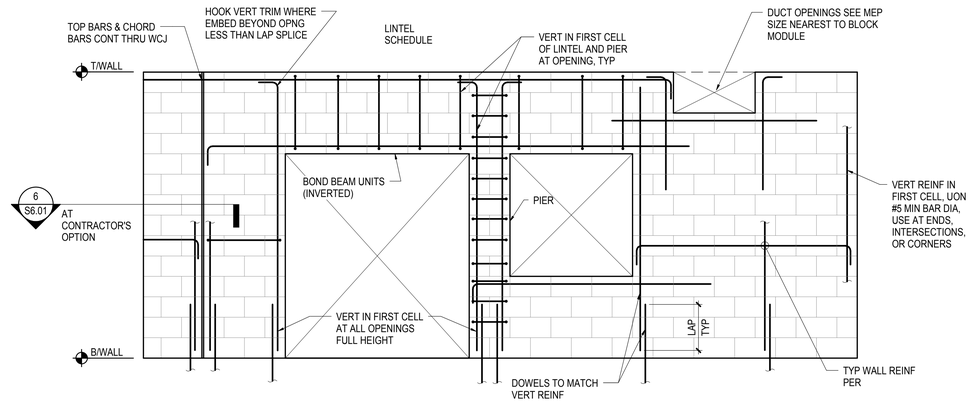
REINFORCING SCHEDULE FOR CONCRETE MASONRY WALLS				
WALL TYPE	NOMINAL THICKNESS	VERTICAL REINF	HORIZONTAL REINF	NO. OF REINF CURTAINS
CMU1	8"	#5 @ 16"OC	#6 @ 8"OC	SINGLE
CMU2	8"	#5 @ 16"OC	#5 @ 16"OC	SINGLE

NOTES:
1. SEE PLANS FOR WALL TYPE LOCATIONS.
2. LAP SPLICE REINFORCING PER 3/-.
3. CMU SHALL BE RUNNING BOND AND FULLY GROUTED, UON.
4. USE DOUBLE OPEN END BLOCKS TO THE EXTENT PRACTICAL TYP, DO NOT PLACE CLOSED SIDES BACK TO BACK.
5. SEE STRUCTURAL GENERAL NOTES FOR MATERIAL SPECIFICATION,
6. FOR WALL CONSTRUCTION JOINTS, SEE DETAIL 6/-.
7. FOR WALL CORNERS & INTERSECTIONS, SEE DETAIL 5/-

(2) CMU WALL REINFORCING SCHEDULE
1" = 1'-0"



(7) ROOF JOIST PERPENDICULAR TO EXTERIOR CMU WALL
1" = 1'-0"



(4) TYPICAL CMU WALL ELEVATION W/ OPENINGS
1" = 1'-0"

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TYPICAL CMU DETAILS

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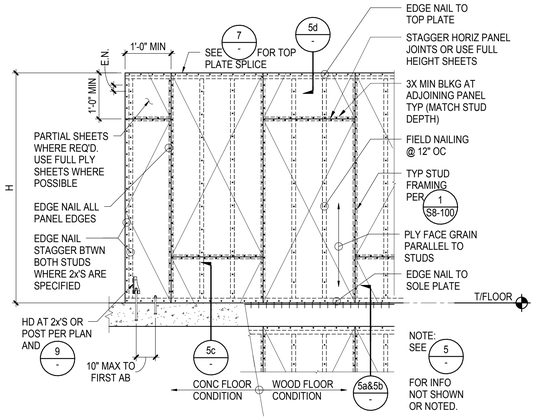
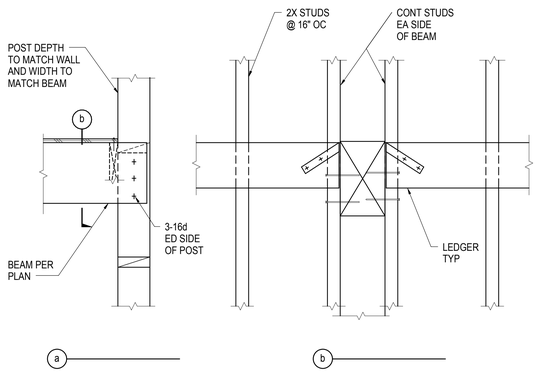
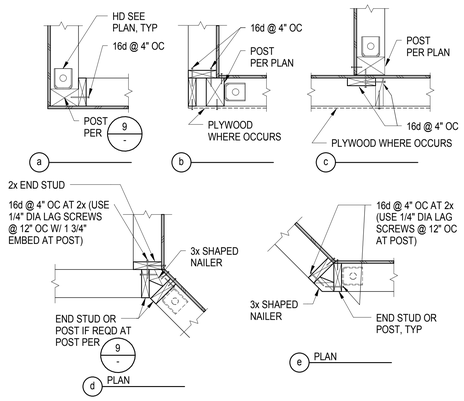


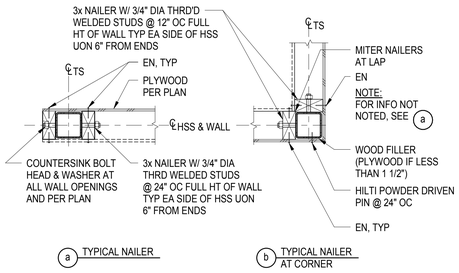
12 SHEARWALL ELEVATION
3/8" = 1'-0"



9 BEAM AND POST CONNECTION AT WALL
1" = 1'-0"



6 SHEARWALL INTERSECTIONS
1" = 1'-0"



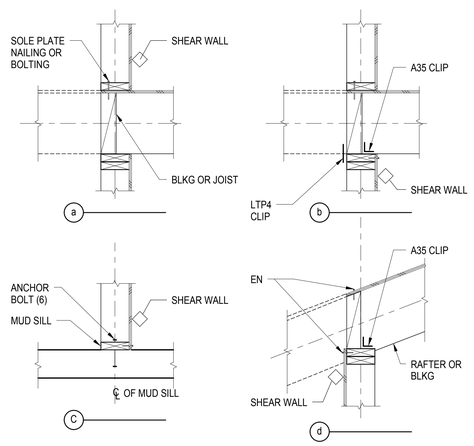
3 NAILER AT HSS COLUMN
1" = 1'-0"

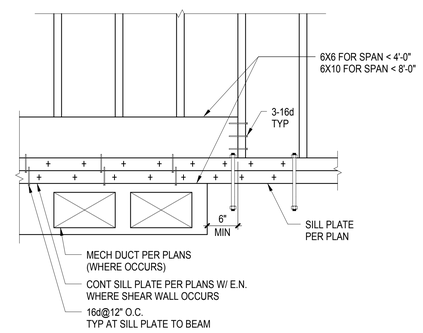
BEARING WALL STUD SCHEDULE						
	DETAIL CONDITION					
	a		b	c		d
SHEARWALL SYMBOL (1) (2)	SOLE PLATE NAILING	SOLE PLATE SIZE	SHEAR CLIP	ANCHOR BOLT	MUD SILL	SHEAR CLIP
◇6◇						
◇4◇(4)						
◇3◇(4)						
◇2◇(4)						
◇4◇◇4◇ (3)(4)						
◇3◇◇3◇ (3)(4)						

NOTES:

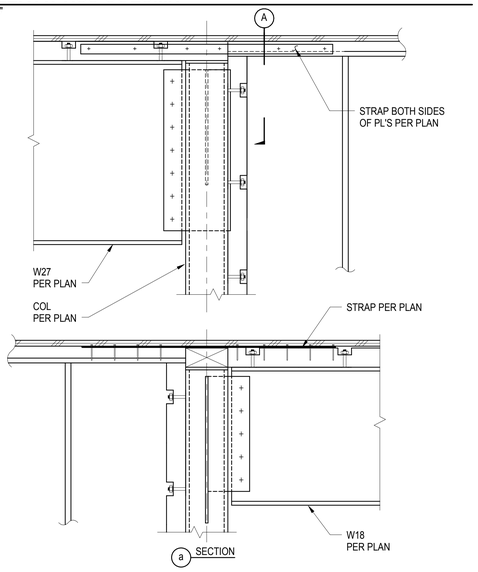
1. USE 10d (2 1/8" LONG) COMMON WIRE NAILS UON
2. ◇# NUMBER SHOWN IN SYMBOL REPRESENTS PLYWOOD PANEL EDGE NAIL SPACING IN INCHES.
3. ◇◇ DENOTES PLYWOOD ON BOTH SIDES OF WALL.
4. PROVIDE 3x FRAMING MEMBERS AT ALL PLYWOOD ADJOINING PANEL EDGES. STAGGER NAILS ON EACH SIDE OF STUD WHERE PLYWOOD IS ON BOTH SIDES.
5. USE LTP4 AS ALTERNATE TO A35 UON
6. SEE DETAIL 9/S8-100 FOR ANCHOR BOLT AND SILL DETAIL.
7. PILOT DRILL HOLES FOR SOLE PLATE NAILING OR BOLTING.
8. NAILS INTO PRESSURE TREATED MUD SILL SHALL BE GALVANIZED.
9. SEE DETAIL 1/- FOR TYPICAL SHEAR WALL FRAMING ELEVATION.
10. SEE PLAN AND DETAIL 9/- FOR SHEAR WALL HOLDOWNS.

11 SHEARWALL SCHEDULE
1" = 1'-0"





5 DUCT BELOW SHEARWALL
1" = 1'-0"



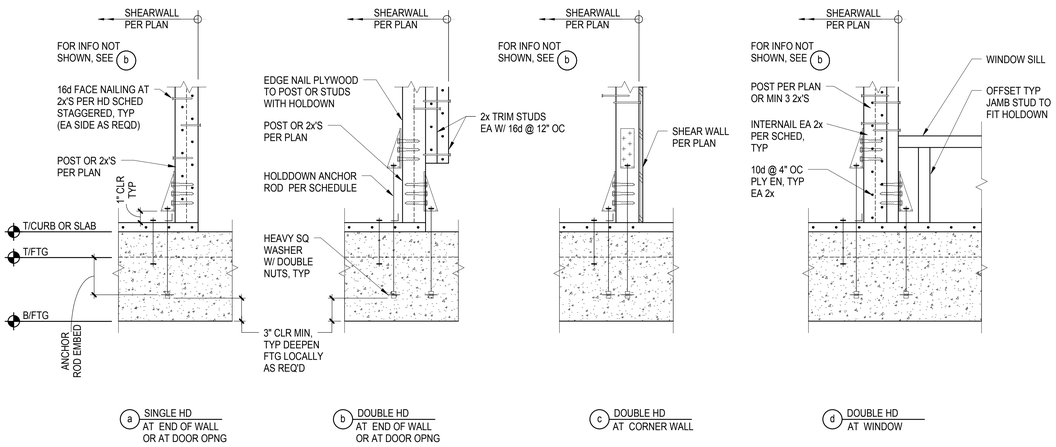
2 DRAG STRAP @ SHEAR WALL
1 1/2" = 1'-0"

HOLDOWN (1)(2)(3)	POST SIZE UON	MIN ANCHOR ROD DIA	MIN ANCHOR ROD EMBED
HDU2-SD2.5	2-2x SW	5/8"	9"
HDU4-SD2.5	2-2x SW	5/8"	9"
HDU5-SD2.5	3-2x SW	5/8"	9"
HDU8-SD2.5	3-2x SW	7/8"	12"
HDU11-SD2.5	4-2x SW	1"	12"
HDU14-SD2.5	5-2x SW	1"	12"

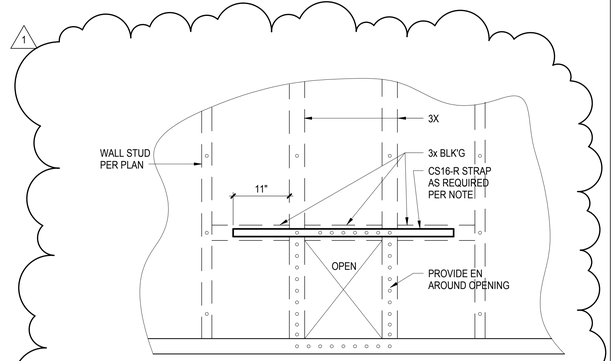
SW = STUD WIDTH

NOTES:

1. SEE PLAN FOR SIZES & LOCATIONS OF HOLDOWNS.
2. FOR HD AT WALL INTERSECTIONS SEE 3 & 6
3. FOLLOW ALL MANUFACTURER'S GUIDELINES NECESSARY TO ACHIEVE FULL ICC DESIGN VALUES.
4. AT MULTIPLE 2x HOLDOWN POST CONDITION, INTERNAIL STUDS W/ STAGGERED 16d @ 6" OC, UON



10 SHEARWALL HOLDOWNS INTO FOUNDATION
1 1/2" = 1'-0"



NOTE:
CS16-R STRAP IS REQUIRED WHEN:

1. THE PENETRATION IS LARGER THAN 25% OF WALL LENGTH.
2. THE PENETRATION ARE CLOSER THAN 32" OC.
3. A SECOND HORIZONTAL STRAP IS REQUIRED AT THE BOTTOM OF OPENING WHEN BOTTOM OF OPENING IS NOT AT BOTTOM PLATE.
4. PROVIDE TRIM STUDS, SILL, AND HEADER PER TYPICAL WALL DETAIL WHERE OPENING IS WIDER THAN A STUD BAY.
5. BLOCKING AND STRAPS NOT REQUIRED WHEN PENETRATIONS IS LESS THAN OR EQUAL TO 6" AND SPACED AT 2 OR MORE STUD BAYS.

1 TYPICAL SHEARWALL PENETRATION DETAIL
1" = 1'-0"

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ARCHITECT'S PROJECT NO.
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1	02/21/12		ADDENDUM 2

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ISSUE
ADDENDUM 2
DATE
02/21/12
DRAWING NO.
6693
SHEET TITLE
TYPICAL WOOD SHEARWALL DETAILS
SHEET NO.
S7.04

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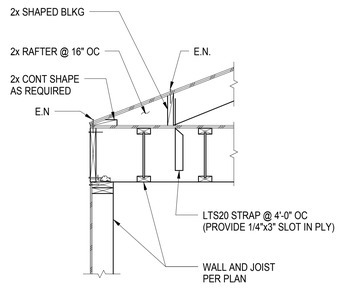
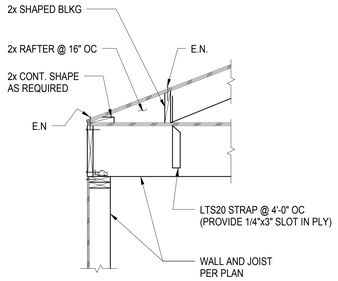
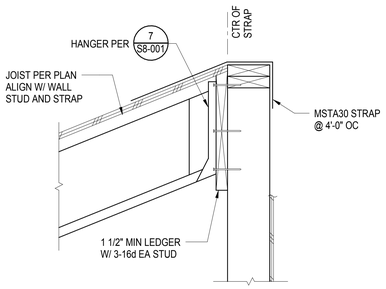


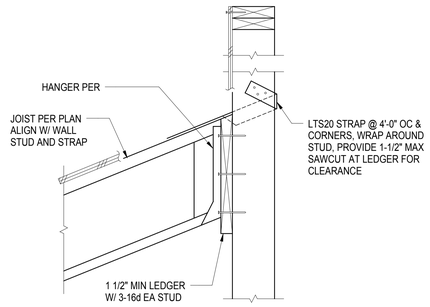
12 CALIFORNIA FRAMING WITH JOIST PERPENDICULAR
3/4" = 1'-0"



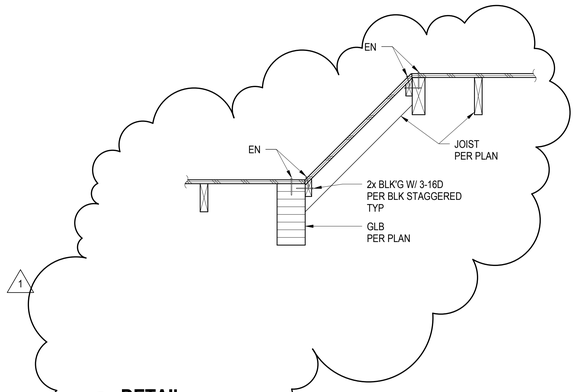
9 CALIFORNIA FRAMING WITH JOIST PARALLEL
3/4" = 1'-0"



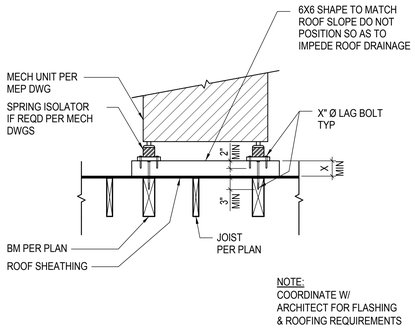
11 ROOF LEDGER
1 1/2" = 1'-0"



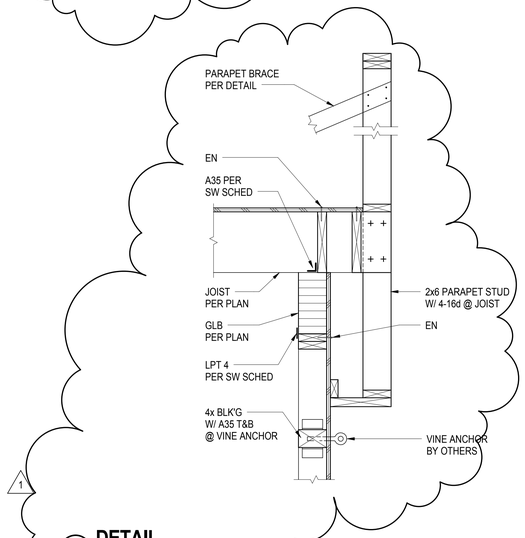
8 ROOF LEDGER
1 1/2" = 1'-0"



2 DETAIL
1" = 1'-0"



10 TYPICAL MECHANICAL UNIT AT ROOF
3/4" = 1'-0"



1 DETAIL
1" = 1'-0"

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1	02/21/12		ADDENDUM 2

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DATE
02/21/12
DRAWING NO.
6693

SHEET TITLE
TYPICAL ROOF DETAILS

SHEET NO.
S7.06

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TITLE OF PROJECT:

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HVAC LEGEND

GENERAL

SYMBOL	DESCRIPTION
℄	CENTER LINE
○	POINT OF CONNECTION
AD/AP	ACCESS DOOR / ACCESS PANEL
T CO2	THERMOSTAT, CO2 SENSOR
TOP BOTTOM	DETAIL 1, DRAWING M-1
TOP BOTTOM	SECTION A, DRAWING M-1
TOP BOTTOM	ELEVATION 1, DRAWING M-1
EXH 1	RISER IDENTIFICATION EXHAUST #1
HP 1	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1
KIT_TAG	KITCHEN EQUIPMENT TAG
XX	SHEET NOTE REFERENCE TAG

PIPING

SYMBOL	DESCRIPTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP
	PIPE DOWN
	PIPE DROP/PIPE RISE
	TOP CONNECTION – BRANCH LINE
	BOTTOM CONNECTION – BRANCH LINE
	PIPE ANCHOR
	TEE UP
	TEE DOWN
	STRAINER
	STRAINER WITH BLOW OFF
	INLINE PUMP
	BASE MOUNTED PUMP
	TEST TEE
	TEST TAP (PETE'S PLUG)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	VACUUM BREAKER
	VENT THRU ROOF
	PIPE GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	UNION
	CAPPED OR PLUGGED TEE
	BLIND FLANGE, CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION LOOP
	VALVE ON RISE

DUCTWORK

SYMBOL (DOUBLE LINE)	DESCRIPTION	SYMBOL (SINGLE LINE)
AD/AP	ACCESS DOOR / ACCESS PANEL	
	FLEXIBLE CONNECTION	
	FLEXIBLE DUCT RUNOUT TO DIFFUSER	
12x6	DUCT SIZE (WIDTH x DEPTH)	12x6
	DUCT THROUGH BEAM PENETRATION	
R D	DUCT OFFSET (RISE OR DROP)	R D
VD	VOLUME DAMPER	VD
FD SD FSD	FIRE, SMOKE OR FIRE/SMOKE DAMPER	FD SD FSD
	SUPPLY DUCT UP	
	SUPPLY DUCT DOWN	
	EXHAUST DUCT UP	
	EXHAUST DUCT DOWN	
	RETURN DUCT UP	
	RETURN DUCT DOWN	
	CROSS SECTION OF SUPPLY DUCT	
	CROSS SECTION OF EXHAUST AIR DUCT	
	CROSS SECTION OF RETURN AIR DUCT	
	CROSS SECTION OF ROUND DUCT	
	DUCT ELBOW WITH TURNING VANES	
	SMOOTH RADIUS DUCT ELBOW WITHOUT TURNING VANES	
12x6	ACOUSTICAL LINING DUCT DIMENSION IS ID	12x6
M	MOTORIZED DAMPER	M
SIZE TD CFM	TRANSFER DUCT (WITH LINER)	SIZE TD CFM
8'-11" BOD	INDICATES 8'11" TO BOTTOM OF DUCT	8'-11" BOD
NECK SIZE-TAG-CFM	ROUND RAISED FLOOR DIFFUSOR (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING SUPPLY DIFFUSER (SEE SCHEDULE) 4-WAY THROW UNLESS INDICATED OTHERWISE.	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING EXHAUST REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	WALL SUPPLY REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	WALL RETURN REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
A	LINEAR SLOT DIFFUSER (SEE SCHEDULE)	A
DSD	DUCT SMOKE DETECTOR	

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CONDITIONING
ACCEPT	ACCEPTANCE
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADD	ADDITION
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AG	AIR GAP
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AMB	AMBIENT
A	AMPERE
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ARI	AMERICAN REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
AUTO	AUTOMATIC
AUX	AUXILIARY
B	BOILER
BBD	BOILER BLOW DOWN
BDD	BACKDRAFT DAMPER
BEL	BELOW
BHP	BRAKE HORSEPOWER
BHT	BASEBOARD HEATER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BFP	BACKFLOW PREVENTER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALL VALVE OR BALANCING VALVE
BYV	BUTTERFLY VALVE
C	COMMON, CONDENSATE OR CONDUIT
CA	CONTROL AIR
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CB	CHILLED BEAM
CC	COOLING COIL OR CONTROLS CONTRACTOR
CEG	CEILING EXHAUST GRILLE
CER	CEILING EXHAUST REGISTER
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CDWR	CONDENSER WATER RETURN
CDWS	CONDENSER WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CH	CHILLER
CHV	CHECK VALVE
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONTROL PANEL OR CONDENSATE PUMP
CPF	CHEMICAL POT FEEDER
CR	CONDENSATE RETURN
CRR	CEILING RETURN REGISTER
CRG	CEILING RETURN GRILLE
CS	CIRCUIT SETTER
CSD	CEILING SUPPLY DIFFUSER
CTE	CONNECT TO EXISTING
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CONSTANT VOLUME OR CONTROL VALVE
CW	COLD WATER
D	DROP OR DRAIN
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DIA	DIAMETER
DIFF	DIFFERENCE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DEW POINT TEMPERATURE
DSD	DUCT SMOKE DETECTOR
DV	DIAPHRAGM VALVE
DWG(S)	DRAWING(S)
DX	DIRECT EXPANSION
EA	EXHAUST AIR OR EACH
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECON	ECONOMIZER
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXPT	EXPANSION TANK
EXT	EXTERNAL
F	FAHRENHEIT OR FILTER
FPB	FAN POWERED BOX
FC	FLEXIBLE CONNECTION OR FAIL CLOSED
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FF	FINAL FILTER OR FINISHED FLOOR
FLR	FLOOR
FO	FAIL OPEN
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE, GAGE
GAL	GALLONS
GALV	GALVANIZED
GC	GAS COCK OR GENERAL CONTRACTOR
GLV	GLOBE VALVE
GN	GENERAL NOTE
GPM	GALLONS PER MINUTE
GND	GROUND
GV	GATE VALVE
H	HEIGHT
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HOR	HORIZONTAL
HP	HIGH PRESSURE
HP	HORSEPOWER
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HRU	HEAT RECOVERY UNIT
HS	HUMIDITY SENSOR
HTR	HEATER
HV	HOSE VALVE
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	HOT WATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER
IN	INCH(ES)
IPLV	INTEGRATED PART LOAD VALUE
JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LP	LOW PRESSURE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
M	MOTOR
MA	MIXED AIR
MAD	MIXED AIR DAMPER
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY RATING VALUE
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MV	MANUAL AIR VENT
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER OR NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OAD	OUTSIDE AIR DAMPER
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPER	OPERATING
OSA	OUTSIDE AIR
OV	OUTLET VELOCITY
P	PUMP OR PRESSURE OR POLE
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PF	PREFILTER
PG	PIPE GUIDE OR PRESSURE GAUGE
PH	PHASE (ELECTRICAL)
PHC	PREHEAT COIL
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
PV	PLUG VALVE
QTY	QUANTITY
R	RISERS, RELOCATE OR RISE
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RD	REFRIGERANT DISCHARGE OR ROOF DRAIN
REF	ROOFTOP EXHAUST FAN
REFRIG	REFRIGERATION
REJ	REJECTION
REQ'D	REQUIRED
REV	REVISE, REVISION OR REVOLUTIONS
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHT	RADIANT HEATER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
S	SUPPLY OR SLOPE
SA	SUPPLY AIR
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATING
SEN	SENSIBLE
SF	SUPPLY FAN OR SQUARE FEET
SHC	SQUARE HEAD COCK
SN	SHEET NOTE
SP	STATIC PRESSURE
SPD	SPLITTER DAMPER
SPEC	SPECIFICATIONS
SQ IN	SQUARE INCH
ST	STRAINER OR SOUND TRAP
STD	STANDARD
STRUCT	STRUCTURAL
SV	STEAM VENT
T	THERMOMETER OR THERMOSTAT
TCP	TEMPERATURE CONTROL PANEL
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TI	TENANT IMPROVEMENT
TRG	TRANSFER GRILLE
TS	TEMPERATURE SENSOR
TSP	TOTAL STATIC PRESSURE
TT	TEST TAP OR TEST TEE
TXV	THERMAL EXPANSION VALVE
(TYP)	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VENT OR VOLT OR VELOCITY
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VFM	VENTURI FLOW METER
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WASTE OR WIDTH OR WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WEG	WALL EXHAUST GRILLE
WG	WATER GAUGE
WP	WORKING PRESSURE
WPD	WATER PRESSURE DROP
WRR	WALL RETURN REGISTER
WSHP	WATER-SOURCE HEAT PUMP
WSR	WALL SUPPLY REGISTER
WT	WEIGHT
XFMR	TRANSFORMER
Z	ZONE

HVAC BASIS OF DESIGN

1. CODES AND STANDARDS
   A. AMERICANS WITH DISABILITIES ACT, (ADA)
   B. BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION IN CALIFORNIA:
      1. 2010 CALIFORNIA BUILDING CODE (CBC) BASED ON 2009 INTERNATIONAL BUILDING CODE (IBC) WITH STATE AMENDMENTS.
      2. 2010 CALIFORNIA MECHANICAL CODE (CMC) BASED 2009 UNIFORM MECHANICAL CODE (UMC) WITH STATE AMENDMENTS.
      3. 2010 TITLE 24, PART 6 CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR RESIDENTIAL AND NONRESIDENTIAL BUILDINGS

2. OUTDOOR DESIGN CONDITIONS
   A. SUMMER: 78°F DB/66°F WB (ASHRAE 0.5% SANTA MONICA, CA)
   B. WINTER: 44°F (ASHRAE 99%, SANTA MONICA, CA)
   C. ELEVATION: 15 FT.
   D. CALIFORNIA CLIMATE ZONE: 6

3. INDOOR DESIGN CONDITIONS
   A. ALL AREAS:
      1. COOLING 72°F +/-2°F
      2. HEATING 68°F +/-2°F
   B. EXCEPTIONS:
      1. ELEC. ROOMS: EXHAUST ONLY, 10°F ABOVE PLENUM TEMP
      2. DATA ROOMS: COOLING ONLY, 72°F +/-2°F
   C. HUMIDITY CONTROL
      1. ALL OTHER AREAS: NONE

4. VENTILATION CRITERIA:
   A. ALL AREAS: 15 CFM/PERSON AND 0.12 CFM/SQ.FT. MINIMUM

5. EXHAUST TO OUTDOORS
   A. TOILET ROOMS: 10 AIR CHANGES PER HOUR

6. BUILDING ENVELOPE
   A. GLAZING: GLASS/FRAME COMBINATION
      1. TYPICAL VERTICAL:
         a. DESCRIPTION: DOUBLE PANE, LOW-E, THERMAL BREAK FRAME
         b. U = 0.26 BTU/hxft2xF (GLASS ONLY)
         c. U = 0.436 BTU/hxft2xF (WITH FRAME)
         d. SHADING COEFFICIENT = 0.355
      2. TYPICAL SKYLIGHT:
         a. DESCRIPTION: DOUBLE PANE, LOW-E, THERMAL BREAK FRAME
         b. U = 0.26 BTU/hxft2xF (GLASS ONLY)
         c. U = 0.5 BTU/hxft2xF (WITH FRAME)
         d. SHADING COEFFICIENT = 0.5
   B. WALL CONSTRUCTION:
      1. DESCRIPTION: STUCCO WITH R-19 BATT INSULATION
      2. OVERALL U-VALUE = 0.438 BTU/hxft2xF
   C. ROOF:
      1. DESCRIPTION: LIGHT COLORED MEMBRANE WITH R-30 INSULATION
      2. OVERALL U-VALUE = 0.214 BTU/hxft2xF

7. INTERNAL HEAT GAIN
   A. LIGHTING:
      1. 1.2 W/SQ. FT.
      2. 20% OF LIGHTING HEAT TO PLENUM
   B. RECEPTACLE POWER:
      1. 0 W/SQ. FT.
   C. OCCUPANTS:
      1. 245 BTU/H SENSIBLE/205 BTU/H LATENT
   D. ELECTRICAL TRANSFORMERS: 3% LOSS/50% DIVERSITY
   E. IDF ROOM:
      SERVER+IT EQUIPMENT: 10.000 BTU/H

8. OCCUPANCY CRITERIA:
   A. OFFICE: 1 PERSON/100 SQ. FT.
   B. CONFERENCE ROOM: 1 PERSON/15 SQ. FT.
   C. COMMUNITY CENTER: 1 PERSON/15 SQ. FT.
   D. LIBRARY: 1 PERSON/50 SQ. FT.

9. DUCTWORK DESIGN CRITERIA
   A. ALL DUCTWORK: 0.08" W.G./100 FT. MAX
   B. MEDIUM PRESSURE SUPPLY
      1. 1500 FPM MAX ABOVE CEILING
      2. 2000 FPM MAX IN SHAFT
   C. RETURN VELOCITY: 1500 FPM MAX
   D. EXHAUST VELOCITY: 1500 FPM MAX.

10. PIPE DESIGN CRITERIA
   A. MAX PRESSURE DROP: 4 FT. W.G./100 FT.
   B. MAX VELOCITY:
      1. 8 FT/SEC MAX IN OCCUPIED AREAS
      2. 10 FT/SEC MAX IN MECHANICAL ROOMS

HVAC DRAWING LIST

M0.1	MECHANICAL LEAD SHEET
M0.2	MECHANICAL TITLE 24
M0.3	MECHANICAL TITLE 24
M0.4	MECHANICAL TITLE 24
M0.5	MECHANICAL TITLE 24
M1.0	MECHANICAL UNIT SCHEDULES
M2.0	MECHANICAL FLOOR PLAN
M2.1	MECHANICAL FLOOR PLAN (UNDERFLOOR)
M2.2	MECHANICAL ROOF PLAN
M4.0	MECHANICAL DETAILS

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.
1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.

REGISTERED PROFESSIONAL ENGINEER
HENRY Y. LAM
No. M33781
Exp. 06-30-13
MECHANICAL
STATE OF CALIFORNIA

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CONSULTANT

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SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
MECHANICAL LEAD SHEET

SHEET NO.
M0.1

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERF-1C

Project Name			Date
Pico Branch Library			2/3/2012
Project Address	Climate Zone	Total Cond. Floor Area	Addition Floor Area
Virginia Avenue Park Santa Monica	CA Climate Zone 06	6,994	n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Relocatable - indicate ☐ specific climate zone ☐ all climates
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration

STATEMENT OF COMPLIANCE

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach.

The documentation author hereby certifies that the documentation is accurate and complete.

Documentation Author

Name	Henry Lam	Signature	
Company	Glumac	Date	2/3/2012
Address	617 W7th Street	Phone	213.239.8866
City/State/Zip	Los Angeles, CA 90017		

The Principal Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the energy efficiency requirements contained in sections 110, 116 through 118, and 140 through 149 of Title 24, Part 6. Please check one:

ENV.	LTG.	MECH.	
☐	☐	☐	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.
☐	☐	☐	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.
☐	☐	☐	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.

Principal Envelope Designer

Name	Jennifer Rios	Signature	
Company	Koning Eizenberg Architecture	Date	
Address	1454 25th Street	License #	
City/State/Zip	Santa Monica, CA 90404	Phone	310-828-6131

Principal Mechanical Designer

Name	Henry Lam	Signature	
Company	Glumac	Date	
Address	617 W. 7th St., Suite 500	License #	
City/State/Zip	Los Angeles, CA 90017	Phone	213.239.8866

Principal Lighting Designer

Name	Jennifer Rios	Signature	
Company	Koning Eizenberg Architecture	Date	
Address	1454 25th Street	License #	
City/State/Zip	Santa Monica, Santa Monica 90404	Phone	310-828-6131

INSTRUCTIONS TO APPLICANT COMPLIANCE & WORKSHEETS (check box if worksheets are included)

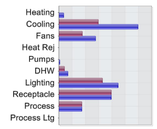
☒ ENV-1C	Certificate of Compliance. Required on plans.	☒ MECH-1C	Certificate of Compliance. Required on plans.
☒ LTG-1C	Certificate of Compliance. Required on plans.	☒ MECH-2C	Air/Water Side/Service Hot Water & Pool Requirements.
☐ LTG-2C	Lighting Controls Credit Worksheet.	☒ MECH-3C	Mechanical Ventilation and Reheat.
☒ LTG-3C	Indoor Lighting Power Allowance.	☒ MECH-5C	Mechanical Equipment Details.

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERF-1C

Project Name	Date
Pico Branch Library	2/3/2012

ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)

Energy Component	Standard Design	Proposed Design	Compliance Margin
Space Heating	7.34	0.14	7.21
Space Cooling	119.76	59.68	60.07
Indoor Fans	55.68	35.69	19.99
Heat Rejection	0.00	0.00	0.00
Pumps & Misc.	1.53	0.00	1.53
Domestic Hot Water	13.79	8.55	5.24
Lighting	89.56	65.76	23.80
Receptacle	79.34	79.34	0.00
Process	34.81	34.81	0.00
Process Lighting	0.00	0.00	0.00
TOTALS	401.81	283.97	117.84
Percent better than Standard	29.3 % (32.1 % excluding process)		



BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation	(N) 0 deg	Conditioned Floor Area	6,994 sqft.
Number of Stories	1	Unconditioned Floor Area	897 sqft.
Number of Systems	7	Conditioned Footprint Area	6,994 sqft.
Number of Zones	11	Natural Gas Available On Site	Yes

	Orientation	Gross Area	Glazing Area	Glazing Ratio
Front Elevation	(N)	2,016 sqft.	388 sqft.	19.3 %
Left Elevation	(E)	1,577 sqft.	403 sqft.	25.5 %
Rear Elevation	(S)	2,528 sqft.	688 sqft.	27.2 %
Right Elevation	(W)	816 sqft.	281 sqft.	34.4 %
Total		6,938 sqft.	1,759 sqft.	25.4 %
Roof		7,140 sqft.	32 sqft.	0.5 %

	Standard	Proposed	
Prescriptive Lighting Power Density	1,279 W/sqft.	0.939 W/sqft.	Prescriptive Values for Comparison only. See LTG-1C for allowed LPD.
Prescriptive Envelope TDV Energy	313,368	228,853	

Remarks:
New Building.

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C

Project Name	Date
Pico Branch Library	2/3/2012

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf)[1]	Ctrl. Credits (W/sf)[2]	Allowed LPD Area (W/sf)[3]	Allowed LPD Tailored (W/sf)[4]	Proc. Loads (W/sf)
RTU-1	Zone 1 - Children's Library	Library, Stacks	1,101	*1.000				0.500
RTU-2	Zone 2 - Manager Room	Office <= 250 sqft	135	*1.100				0.500
	Zone 2 - Restrooms	Corridor\Restroom\Support	477	*0.600				
	Zone 2 - group study room	Convention/Conference/Mee	357	*1.400				
RTU-3	Zone 3 - Computer Commor	Library, Reading Area	500	*0.800				1.000
	Zone 3 - Customer Service	Library, Reading Area	1,503	*0.800				0.500
RTU-4	Zone 4 - Collections	Library, Stacks	800	*1.000				0.500
RTU-5	Zone 5 community	Convention/Conference/Mee	913	*0.800				0.500
	Zone 5 Accessory	Corridor\Restroom\Support	420	*0.800				0.500
CU-1 & FC-1	Zone 6	Library, Stacks	729	*1.000				0.500
CU-2 & FC-2	Zone 7	Electrical, Mechanical Room	956	*1.000				0.500

Notes: 1. See LTG-1C (Items marked with asterisk, see LTG-1-C for others) 2. See LTG-2C 3. See LTG-3C (by others) 4. See LTG-4C — Items above require special documentation

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justifications, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The HVAC System RTU-1 includes Demand Control Ventilation per Standards Section 121.
The Zone Zone 1 - Children's Library has a North/East/South Display Perimeter Credit of 21 ft.
The HVAC System RTU-2 includes Demand Control Ventilation per Standards Section 121.
The Zone Zone 2 - Manager Room has a North/East/South Display Perimeter Credit of 21 ft.
The Zone Zone 2 - group study room has a North/East/South Display Perimeter Credit of 58 ft.
The HVAC System RTU-3 includes Demand Control Ventilation per Standards Section 121.
The Zone Zone 3 - Computer Commons has a North/East/South Display Perimeter Credit of 6 ft.
The Zone Zone 3 - Customer Service has a North/East/South Display Perimeter Credit of 15 ft.
The HVAC System RTU-4 includes Demand Control Ventilation per Standards Section 121.
The Zone Zone 4 - Collections has a North/East/South Display Perimeter Credit of 21 ft.
The HVAC System RTU-5 includes Demand Control Ventilation per Standards Section 121.
The Zone Zone 5 community has a North/East/South Display Perimeter Credit of 21 ft.
The HVAC System CU-1 & FC-1 includes Demand Control Ventilation per Standards Section 121.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp _____

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C

Project Name	Date
Pico Branch Library	2/3/2012

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf)[1]	Ctrl. Credits (W/sf)[2]	Allowed LPD Area (W/sf)[3]	Allowed LPD Tailored (W/sf)[4]	Proc. Loads (W/sf)

Notes: 1. See LTG-1C (Items marked with asterisk, see LTG-1-C for others) 2. See LTG-2C 3. See LTG-3C (by others) 4. See LTG-4C — Items above require special documentation

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justifications, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The HVAC System CU-1 & FC-1 incorporates HERS verified Duct Leakage. Target leakage is calculated and documented on the MECH-4-A.
The Zone Zone 6 has a North/East/South Display Perimeter Credit of 21 ft.
The HVAC System CU-2 & FC-2 includes Demand Control Ventilation per Standards Section 121.
The HVAC System CU-2 & FC-2 incorporates HERS verified Duct Leakage. Target leakage is calculated and documented on the MECH-4-A.
The Zone Zone 7 has a North/East/South Display Perimeter Credit of 21 ft.
The HVAC System RTU-1 - AAON RN006 includes a Variable Speed Drive on the Fan.
The HVAC System RTU-1 - AAON RN006 includes an Economizer. This system has a cooling output < 75,000 Btuh or a supply cfm < 2500.
The HVAC System RTU-2 - AAON RQ003 includes a Variable Speed Drive on the Fan.
The HVAC System RTU-2 - AAON RQ003 includes an Economizer. This system has a cooling output < 75,000 Btuh or a supply cfm < 2500.
The HVAC System RTU-3 - AAON RQ003 includes a Variable Speed Drive on the Fan.
The HVAC System RTU-3 - AAON RQ003 includes an Economizer. This system has a cooling output < 75,000 Btuh or a supply cfm < 2500.
The HVAC System RTU-4 - AAON RQ003 includes a Variable Speed Drive on the Fan.
The HVAC System RTU-4 - AAON RQ003 includes an Economizer. This system has a cooling output < 75,000 Btuh or a supply cfm < 2500.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp _____

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C

Project Name	Date
Pico Branch Library	2/3/2012

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf)[1]	Ctrl. Credits (W/sf)[2]	Allowed LPD Area (W/sf)[3]	Allowed LPD Tailored (W/sf)[4]	Proc. Loads (W/sf)

Notes: 1. See LTG-1C (Items marked with asterisk, see LTG-1-C for others) 2. See LTG-2C 3. See LTG-3C (by others) 4. See LTG-4C — Items above require special documentation

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justifications, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The HVAC System RTU-5 - AAON RQ003 includes a Variable Speed Drive on the Fan.
The HVAC System RTU-5 - AAON RQ003 includes an Economizer. This system has a cooling output < 75,000 Btuh or a supply cfm < 2500.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp _____

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name			Date
Pico Branch Library			2/3/2012
Project Address	Climate Zone	Total Cond. Floor Area	Addition Floor Area
Virginia Avenue Park Santa Monica	6	6,994	n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: 0 deg

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value (INSULATION)	Exterior R-Value (INSULATION)	Exterior Furring[5] (INSULATION)	Interior R-Value (INSULATION)	Interior Furring[5] (INSULATION)	Joint Appendix 4	Condition Status	Pass	Fail[7]
1	Wall	80	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
2	Roof	1,069	(N)	0.035	R-30					4.2.2-A17	New	☐	☐
3	Slab	1,101	(N)	0.730	None					4.4.7-A1	New	☐	☐
4	Wall	461	(SW)	0.074	R-19					4.3.1-A5	New	☐	☐
5	Wall	491	(SE)	0.074	R-19					4.3.1-A5	New	☐	☐
6	Roof	135	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
7	Slab	135	(N)	0.730	None					4.4.7-A1	New	☐	☐
8	Wall	383	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
9	Roof	357	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
10	Slab	357	(N)	0.730	None					4.4.7-A1	New	☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail[2]
1	Window	199	(NW)	0.270	COG	0.320	COG	☒	New	☐	☐
2	Skylight	32	(N)	0.270	COG	0.320	COG	☐	New	☐	☐
3	Window	281	(SW)	0.270	COG	0.320	COG	☒	New	☐	☐
4	Window	290	(SE)	0.270	COG	0.320	COG	☐	New	☐	☐
5	Window	190	(NW)	0.270	COG	0.320	COG	☐	New	☐	☐
6	Window	275	(SE)	0.270	COG	0.320	COG	☒	New	☐	☐
7	Window	378	(NE)	0.270	COG	0.320	COG	☒	New	☐	☐
8	Window	24	(NE)	0.270	COG	0.320	COG	☐	New	☐	☐
9	Window	124	(SE)	0.270	COG	0.320	COG	☐	New	☐	☐
								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name			Date
Pico Branch Library			2/3/2012
Project Address	Climate Zone	Total Cond. Floor Area	Addition Floor Area
Virginia Avenue Park Santa Monica	6	6,994	n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: 0 deg

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value (INSULATION)	Exterior R-Value (INSULATION)	Exterior Furring[5] (INSULATION)	Interior R-Value (INSULATION)	Interior Furring[5] (INSULATION)	Joint Appendix 4	Condition Status	Pass	Fail[7]
11	Wall	55	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
12	Roof	500	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
13	Slab	500	(N)	0.730	None					4.4.7-A1	New	☐	☐
14	Wall	64	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
15	Slab	1,503	(N)	0.730	None					4.4.7-A1	New	☐	☐
16	Wall	27	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
17	Roof	1,503	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
18	Roof	800	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
19	Slab	800	(N)	0.730	None					4.4.7-A1	New	☐	☐
20	Wall	69	(SE)	0.074	R-19					4.3.1-A5	New	☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail[2]
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name			Date
Pico Branch Library			2/3/2012
Project Address	Climate Zone	Total Cond. Floor Area	Addition Floor Area
Virginia Avenue Park Santa Monica	6	6,994	n/a

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: 0 deg

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value (INSULATION)	Exterior R-Value (INSULATION)	Exterior Furring[5] (INSULATION)	Interior R-Value (INSULATION)	Interior Furring[5] (INSULATION)	Joint Appendix 4	Condition Status	Pass	Fail[7]
21	Wall	303	(NE)	0.074	R-19					4.3.1-A5	New	☐	☐
22	Wall	340	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
23	Roof	913	(N)	0.035	R-30					4.2.2-A17	New	☐	☐
24	Wall	626	(NW)	0.074	R-19					4.3.1-A5	New	☐	☐
25	Door	48	(NW)	0.700	None					4.5.1-A2	New	☐	☐
26	Wall	797	(NE)	0.074	R-19					4.3.1-A5	New	☐	☐
27	Wall	703	(SE)	0.074	R-19					4.3.1-A5	New	☐	☐
28	Slab	913	(N)	0.730	None					4.4.7-A1	New	☐	☐
29	Roof	875	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
30	Slab	729	(N)	0.730	None					4.4.7-A1	New	☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail[2]
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
MECHANICAL TITLE 24

SHEET NO.
M0.2

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*
Project Address: *Virginia Avenue Park Santa Monica* | Climate Zone: *6* | Total Cond. Floor Area: *6,994* | Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: *0 deg*

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R-Value	Exterior Furring[1]	Interior R-Value	Interior Furring[1]	Joint Appendix 4	Condition Status	Pass	Fail[2]
31	Wall	54	(NE)	0.074	R-19					4.3.1-A5	New	☐	☐
32	Door	20	(NE)	0.700	None					4.5.1-A2	New	☐	☐
33	Wall	578	(SE)	0.074	R-19					4.3.1-A5	New	☐	☐
34	Wall	75	(SW)	0.074	R-19					4.3.1-A5	New	☐	☐
35	Roof	956	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
36	Slab	956	(N)	0.730	None					4.4.7-A1	New	☐	☐
												☐	☐
												☐	☐
												☐	☐
												☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (PF/SHGC)	SHGC Source	Overhang	Conditions Status	Pass	Fail[2]
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*
Project Address: *Virginia Avenue Park Santa Monica* | Climate Zone: *6* | Total Cond. Floor Area: *6,994* | Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces
☐ Skylight Area for Large Enclosed Space ≥ 8000 ft² (If checked include the ENV-4C with submittal)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☒ Overall Envelope ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: *0 deg*

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS

Tag/ID	Assembly Type	Area (ft²)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R-Value	Exterior Furring[1]	Interior R-Value	Interior Furring[1]	Joint Appendix 4	Condition Status	Pass	Fail[2]
31	Wall	54	(NE)	0.074	R-19					4.3.1-A5	New	☐	☐
32	Door	20	(NE)	0.700	None					4.5.1-A2	New	☐	☐
33	Wall	578	(SE)	0.074	R-19					4.3.1-A5	New	☐	☐
34	Wall	75	(SW)	0.074	R-19					4.3.1-A5	New	☐	☐
35	Roof	956	(NW)	0.035	R-30					4.2.2-A17	New	☐	☐
36	Slab	956	(N)	0.730	None					4.4.7-A1	New	☐	☐
												☐	☐
												☐	☐
												☐	☐
												☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (PF/SHGC)	SHGC Source	Overhang	Conditions Status	Pass	Fail[2]
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
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								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 3) ENV-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Required Acceptance Tests

Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for Envelope Fenestrations system. The designer is required to check the acceptance tests and list all the fenestration products that require an acceptance test. If all the site-built fenestration of a certain type requires a test, list the different fenestration products and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:
Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or whenever new fenestration is installed in the building or space shall be certified as meeting the Acceptance Requirements.
The ENV-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the ENV-2A for each different fenestration product line must be provided to the owner of the building for their records.

Test Description: Fenestration Products Name or ID Requiring Testing or Verification	Area of like Products	ENV-2A: Building Envelope Acceptance Test	Test Performed By:
Pico Window PPG SOLARBAN 60 (2) Clear	*1,759*	☒	
Pico Skylight PPG SOLARBAN 60 (2) Clear	*32*	☒	
		☐	
		☐	
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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*
Project Address: *Virginia Avenue Park Santa Monica* | Climate Zone: *6* | Total Cond. Floor Area: *6,994* | Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: *0 deg*

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*DHW Heater*	☐	☐
Equipment Type[3]:	*Gas Fired DHW Boiler*	☐	☐
Number of Systems	*2*	☐	☐
Max Allowed Heating Capacity[1]	*199,000 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*1.00 EF*	☐	☐
Max Allowed Cooling Capacity[1]	*n/a*	☐	☐
Cooling Efficiency[1]	*n/a*	☐	☐
Duct Location/ R-Value	*n/a*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*n/a*	☐	☐
Economizer	*n/a*	☐	☐
Thermostat	*n/a*	☐	☐
Fan Control	*n/a*	☐	☐

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*RTU-1*	☐	☐
Equipment Type[3]:	*Packaged VAV*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*72,900 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*81% AFUE*	☐	☐
Max Allowed Cooling Capacity[1]	*62,210 Btu/hr*	☐	☐
Cooling Efficiency[1]	*14.3 SEER / 12.5 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, unvented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*Diff. Enth (Integrated)*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Variable Speed*	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*
Project Address: *Virginia Avenue Park Santa Monica* | Climate Zone: *6* | Total Cond. Floor Area: *6,994* | Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: *0 deg*

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*RTU-2*	☐	☐
Equipment Type[3]:	*Packaged VAV*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*48,600 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*81% AFUE*	☐	☐
Max Allowed Cooling Capacity[1]	*38,250 Btu/hr*	☐	☐
Cooling Efficiency[1]	*15.7 SEER / 13.6 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*Diff. Enth (Integrated)*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Variable Speed*	☐	☐

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*RTU-3*	☐	☐
Equipment Type[3]:	*Packaged VAV*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*48,600 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*81% AFUE*	☐	☐
Max Allowed Cooling Capacity[1]	*44,020 Btu/hr*	☐	☐
Cooling Efficiency[1]	*15.7 SEER / 13.6 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*Diff. Enth (Integrated)*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Variable Speed*	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*
Project Address: *Virginia Avenue Park Santa Monica* | Climate Zone: *6* | Total Cond. Floor Area: *6,994* | Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: *0 deg*

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*RTU-4*	☐	☐
Equipment Type[3]:	*Packaged VAV*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*48,600 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*81% AFUE*	☐	☐
Max Allowed Cooling Capacity[1]	*43,120 Btu/hr*	☐	☐
Cooling Efficiency[1]	*15.7 SEER / 13.6 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*Diff. Enth (Integrated)*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Variable Speed*	☐	☐

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*RTU-5*	☐	☐
Equipment Type[3]:	*Packaged VAV*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*48,600 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*81% AFUE*	☐	☐
Max Allowed Cooling Capacity[1]	*44,630 Btu/hr*	☐	☐
Cooling Efficiency[1]	*15.7 SEER / 13.6 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*Diff. Enth (Integrated)*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Variable Speed*	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*
Project Address: *Virginia Avenue Park Santa Monica* | Climate Zone: *6* | Total Cond. Floor Area: *6,994* | Addition Floor Area: *n/a*

GENERAL INFORMATION

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room
☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☒ Conditioned Spaces ☐ Unconditioned Spaces (affidavit)
Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration
Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees: *0 deg*

HVAC SYSTEM DETAILS

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*CU-1 & FC-1*	☐	☐
Equipment Type[3]:	*Split DX*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*23,600 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*9.30 HSPF*	☐	☐
Max Allowed Cooling Capacity[1]	*24,190 Btu/hr*	☐	☐
Cooling Efficiency[1]	*19.1 SEER / 14.7 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*No Economizer*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Constant Volume*	☐	☐

Equipment[2]	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST Meets Criteria or Requirements: Pass	Fail – Describe Reason[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*CU-2 & FC-2*	☐	☐
Equipment Type[3]:	*Split DX*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*48,000 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*n/a*	☐	☐
Max Allowed Cooling Capacity[1]	*24,000 Btu/hr*	☐	☐
Cooling Efficiency[1]	*16.7 SEER / 9.1 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 8.0*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*Yes*	☐	☐
Economizer	*No Economizer*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Constant Volume*	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 2 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Discrepancies:

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PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
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ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2
DATE
02/21/2012
DRAWING NO. **6693**

SHEET TITLE
MECHANICAL TITLE 24

SHEET NO.
M0.3

SHEET OF
DWG. NO. -
TITLE OF PROJECT:

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and listed all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.
Systems Acceptance: Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.

The MECH-1C form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for **ALL** newly installed equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation, certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title-24 Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy.

TEST DESCRIPTION		MECH-2A	MECH-3A	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-11A
Equipment Requiring Testing or Verification	Qty.	Outdoor Ventilation For VAV & CAV	Constant Volume & Single-Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation DCV	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
RTU-1 - AAON RN006	*1*	☑	☐	☑	☑	☑	☑	☐	☐	☐	☑
RTU-2 - AAON RQ003	*1*	☑	☐	☑	☑	☑	☑	☐	☐	☐	☑
RTU-3 - AAON RQ003	*1*	☑	☐	☑	☑	☑	☑	☐	☐	☐	☑
RTU-4 - AAON RQ003	*1*	☑	☐	☑	☑	☑	☑	☐	☐	☐	☑
RTU-5 - AAON RQ003	*1*	☑	☐	☑	☑	☑	☑	☐	☐	☐	☑
Carrier 25VNA024 & FE4ANF002	*1*	☑	☑	☑	☐	☑	☐	☐	☐	☐	☑
Carrier RAVKR024	*1*	☑	☑	☑	☐	☑	☐	☐	☐	☐	☑
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 4 of 4) MECH-1C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

TEST DESCRIPTION		MECH-12A Fault Detection & Diagnostics for DX Units	MECH-13A Automatic Fault Detection & Diagnostics for Air & Zone	MECH-14A Distributed Energy Storage DX AC Systems	MECH-15A Thermal Energy Storage (TES) Systems	
Equipment Requiring Testing	Qty.					Test Performed By:
RTU-1 - AAON RN006	*1*	☑	☐	☐	☐	
RTU-2 - AAON RQ003	*1*	☑	☐	☐	☐	
RTU-3 - AAON RQ003	*1*	☑	☐	☐	☐	
RTU-4 - AAON RQ003	*1*	☑	☐	☐	☐	
RTU-5 - AAON RQ003	*1*	☑	☐	☐	☐	
Carrier 25VNA024 & FE4ANF002	*1*	☐	☑	☐	☐	
Carrier RAVKR024	*1*	☐	☐	☐	☐	
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AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Item or System Tags (i.e. AC-1, RTU-1, HP-1)	Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...)			
		RTU-4	*RTU-5*	*CU-1 & FC-1*
Number of Systems		*1*	*1*	*1*
	Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)			
MANDATORY MEASURES	**T-24 Sections**			
Heating Equipment Efficiency	112(a)	*81% AFUE*	*81% AFUE*	*9.30 HSPF*
Cooling Equipment Efficiency	112(a)	*15.7 SEER / 13.6 EER*	*15.7 SEER / 13.6 EER*	*19.1 SEER / 14.7 EER*
HVAC Heat Pump Thermostat	112(b), 112(c)	*n/a*	*n/a*	*Yes*
Furnace Controls/Thermostat	112(c), 115(a)	*n/a*	*n/a*	*n/a*
Natural Ventilation	121(b)	*No*	*No*	*No*
Mechanical Ventilation	121(b)	*171 cfm*	*457 cfm*	*156 cfm*
VAV Minimum Position Control	121(c)	*No*	*No*	*No*
Demand Control Ventilation	121(c)	*Yes*	*Yes*	*Yes*
Time Control	122(e)	*Programmable Switch*	*Programmable Switch*	*Programmable Switch*
Setback and Setup Control	122(e)	*Setback Required*	*Setback Required*	*Setback Required*
Outdoor Damper Control	122(f)	*Auto*	*Auto*	*Auto*
Isolation Zones	122(g)	*n/a*	*n/a*	*n/a*
Pipe Insulation	123			
Duct Location/ R-value	124	*Attic, Ceiling Ins, vented / 8.0*	*Attic, Ceiling Ins, vented / 8.0*	*Attic, Ceiling Ins, vented / 8.0*
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	*n/a*	*n/a*	*n/a*
Proposed Heating Capacity	144(a & b)	*48,600 Btu/hr*	*48,600 Btu/hr*	*24,858 Btu/hr*
Calculated Design Cooling Load	144(a & b)	*n/a*	*n/a*	*n/a*
Proposed Cooling Capacity	144(a & b)	*41,999 Btu/hr*	*41,278 Btu/hr*	*19,550 Btu/hr*
Fan Control	144(c)	*Variable Speed*	*Variable Speed*	*Constant Volume*
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	*Yes*	*Yes*	*Yes*
Simultaneous Heat/Cool	144(d)	*No*	*No*	*No*
Economizer	144(e)	*Diff. Enth (Integrated)*	*Diff. Enth (Integrated)*	*No Economizer*
Heat Air Supply Reset	144(f)	*Coldest Zone*	*Coldest Zone*	*Constant Temp*
Cool Air Supply Reset	144(f)	*Constant Temp*	*Constant Temp*	*Constant Temp*
Electric Resistance Heating[1]	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	*Yes*	*Yes*	*Yes*

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

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AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Item or System Tags (i.e. AC-1, RTU-1, HP-1)	Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...)			
		CU-2 & FC-2		
Number of Systems		*1*		
	Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)			
MANDATORY MEASURES	**T-24 Sections**			
Heating Equipment Efficiency	112(a)	*n/a*		
Cooling Equipment Efficiency	112(a)	*16.7 SEER / 9.1 EER*		
HVAC Heat Pump Thermostat	112(b), 112(c)	*n/a*		
Furnace Controls/Thermostat	112(c), 115(a)	*n/a*		
Natural Ventilation	121(b)	*No*		
Mechanical Ventilation	121(b)	*199 cfm*		
VAV Minimum Position Control	121(c)	*No*		
Demand Control Ventilation	121(c)	*Yes*		
Time Control	122(e)	*Programmable Switch*		
Setback and Setup Control	122(e)	*Setback Required*		
Outdoor Damper Control	122(f)	*Auto*		
Isolation Zones	122(g)	*n/a*		
Pipe Insulation	123			
Duct Location/ R-value	124	*Attic, Ceiling Ins, vented / 8.0*		
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	*n/a*		
Proposed Heating Capacity	144(a & b)	*0 Btu/hr*		
Calculated Design Cooling Load	144(a & b)	*n/a*		
Proposed Cooling Capacity	144(a & b)	*22,860 Btu/hr*		
Fan Control	144(c)	*Constant Volume*		
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	*Yes*		
Simultaneous Heat/Cool	144(d)	*No*		
Economizer	144(e)	*No Economizer*		
Heat Air Supply Reset	144(f)	*Constant Temp*		
Cool Air Supply Reset	144(f)	*Constant Temp*		
Electric Resistance Heating[1]	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	*Yes*		

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

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WATER SIDE SYSTEM REQUIREMENTS (Part 2 of 2) MECH-2C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Item or System Tags (i.e. AC-1, RTU-1, HP-1)[1]	WATER[2] SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops				
Number of Systems					
	Indicate Page Reference on Plans or Specification[3]				
MANDATORY MEASURES	**T-24 Sections**				
Equipment Efficiency	112(a)				
Pipe Insulation	123				
PRESCRIPTIVE MEASURES					
Cooling Tower Fan Controls	144(a & b)				
Cooling Tower Flow Controls	144(h)				
Variable Flow System Design	144(h)				
Chiller and Boiler Isolation	144(j)				
CHW and HHW Reset Controls	144(j)				
WLHP Isolation Valves	144(j)				
VSD on CHW, CW & WLHP Pumps>5HP	144(j)				
DP Sensor Location	144(j)				

1. The proposed equipment need to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
2. For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column next to applicable section.

Item or System Tags (i.e. WH-1, WHP, DHW, etc...)[1]	Service Hot Water, Pool Heating				
		DHW Heater			
Number of Systems		*2*			
	Indicate Page Reference on Plans or Schedule[3]				
MANDATORY MEASURES	**T-24 Sections**				
SERVICE HOT WATER					
Certified Water Heater	111, 113(a)	*Noritz NC-199-OD*			
Water Heater Efficiency	113(b)	*1.00 EF*			
Service Water Heating Installation	113(c)	*Controls Req.*			
Pipe Insulation	123	*Required*			
POOL AND SPA					
Pool and Spa Efficiency and Control	114(a)	*n/a*			
Pool and Spa Installation	114(b)	*n/a*			
Pool Heater – No Pilot Light	115(c)	*n/a*			
Spa Heater – No Pilot Light	115(d)	*n/a*			
Pipe Insulation	123	*n/a*			

1. The Proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
2. For each water heater, pool heater and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

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AIR SYSTEM REQUIREMENTS (Part 2 of 2) MECH-2C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Item or System Tags (i.e. AC-1, RTU-1, HP-1)	Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...)			
		RTU-1	*RTU-2*	*RTU-3*
Number of Systems		*1*	*1*	*1*
	Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)			
MANDATORY MEASURES	**T-24 Sections**			
Heating Equipment Efficiency	112(a)	*81% AFUE*	*81% AFUE*	*81% AFUE*
Cooling Equipment Efficiency	112(a)	*14.3 SEER / 12.5 EER*	*15.7 SEER / 13.6 EER*	*15.7 SEER / 13.6 EER*
HVAC Heat Pump Thermostat	112(b), 112(c)	*n/a*	*n/a*	*n/a*
Furnace Controls/Thermostat	112(c), 115(a)	*n/a*	*n/a*	*n/a*
Natural Ventilation	121(b)	*No*	*No*	*No*
Mechanical Ventilation	121(b)	*236 cfm*	*194 cfm*	*462 cfm*
VAV Minimum Position Control	121(c)	*No*	*No*	*No*
Demand Control Ventilation	121(c)	*Yes*	*Yes*	*Yes*
Time Control	122(e)	*Programmable Switch*	*Programmable Switch*	*Programmable Switch*
Setback and Setup Control	122(e)	*Setback Required*	*Setback Required*	*Setback Required*
Outdoor Damper Control	122(f)	*Auto*	*Auto*	*Auto*
Isolation Zones	122(g)	*n/a*	*n/a*	*n/a*
Pipe Insulation	123			
Duct Location/ R-value	124	*Attic, Ceiling Ins, unvented / 8.0*	*Attic, Ceiling Ins, vented / 8.0*	*Attic, Ceiling Ins, vented / 8.0*
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	*n/a*	*n/a*	*n/a*
Proposed Heating Capacity	144(a & b)	*72,900 Btu/hr*	*48,600 Btu/hr*	*48,600 Btu/hr*
Calculated Design Cooling Load	144(a & b)	*n/a*	*n/a*	*n/a*
Proposed Cooling Capacity	144(a & b)	*60,123 Btu/hr*	*25,428 Btu/hr*	*44,226 Btu/hr*
Fan Control	144(c)	*Variable Speed*	*Variable Speed*	*Variable Speed*
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	*Yes*	*Yes*	*Yes*
Simultaneous Heat/Cool	144(d)	*No*	*No*	*No*
Economizer	144(e)	*Diff. Enth (Integrated)*	*Diff. Enth (Integrated)*	*Diff. Enth (Integrated)*
Heat Air Supply Reset	144(f)	*Coldest Zone*	*Coldest Zone*	*Coldest Zone*
Cool Air Supply Reset	144(f)	*Constant Temp*	*Constant Temp*	*Constant Temp*
Electric Resistance Heating[1]	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	*Yes*	*Yes*	*Yes*

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

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MECHANICAL VENTILATION AND REHEAT MECH-3C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

	MECHANICAL VENTILATION (§121(b)2)									REHEAT LIMITATION (§144(d))				
	AREA BASIS			OCCUPANCY BASIS						VAV MINIMUM				
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Zone/System	Condition Area (ft^2)	CFM per ft^2	Min CFM By Area B X C	Number Of People	CFM per Person	Min CFM by Occupant E X F	REQ'D V.A. Max of D or G	Design Ventilation Air CFM	50% of Design Zone Supply CFM	B X 0.4 CFM / ft^2	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
Zone 1 - Children's Library	*1,101*	*0.15*	*165*	*15.7*	*15.0*	*236*	*236*	*236*					
RTU-1						*Total*	*236*	*236*					
Zone 2 - Manager Room	*135*	*0.15*	*20*	*1.0*	*15.0*	*16*	*20*	*16*					*5*
Zone 2 - group study room	*357*	*0.50*	*179*	*23.8*	*7.5*	*179*	*179*	*179*					
RTU-2						*Total*	*199*	*194*					
Zone 3 - Computer Commons	*500*	*0.15*	*75*	*7.7*	*15.0*	*115*	*115*	*115*					
Zone 3 - Customer Service	*1,503*	*0.15*	*225*	*23.1*	*15.0*	*347*	*347*	*347*					
RTU-3						*Total*	*462*	*462*					
Zone 4 - Collections	*800*	*0.15*	*120*	*11.4*	*15.0*	*171*	*171*	*171*					
RTU-4						*Total*	*171*	*171*					
Zone 5 community	*913*	*0.50*	*457*	*60.9*	*7.5*	*457*	*457*	*457*					
RTU-5						*Total*	*457*	*457*					
Zone 6	*729*	*0.15*	*109*	*10.4*	*15.0*	*156*	*156*	*156*					
CU-1 & FC-1						*Total*	*156*	*156*					
Zone 7	*956*	*0.15*	*143*	*4.0*	*50.0*	*199*	*199*	*199*					
			Totals						Column I Total Design Ventilation Air				

C	Minimum ventilation rate per Section §121, Table 121-A.
E	Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
H	Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).
I	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply CFM (Fan CFM) x 50%, or the design zone outdoor airflow rate per §121.
K	Condition area (ft^2) x 0.4 CFM / ft^2, or
L	Maximum of Columns H, J, K, or 300 CFM
M	This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.
N	Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column H minus M.

EnergyPro 5.1 by EnergySoft *User Number: 7306* ***RunCode: 2012-02-03T15:22:02*** *ID: 06.11.00192* *Page 30 of 36*

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ARCHITECT'S PROJECT NO.
1001

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APPROVED BY :
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REVIEWED BY : DATE : _____ 20 __

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
MECHANICAL TITLE 24

SHEET NO.
M0.4

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

MECHANICAL VENTILATION AND REHEAT — MECH-3C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

	MECHANICAL VENTILATION (§121(b)2)										REHEAT LIMITATION (§144(d))	
	AREA BASIS			OCCUPANCY BASIS				VAV MINIMUM				
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Zone/System	Condition Area (ft²)	CFM per ft²	Min CFM By Area B X C	Number Of People	CFM per Person	Min CFM by Occupant E X F	REQ'D V.A. Max of D or G	Design Ventilation Air CFM	50% of Design Zone Supply CFM	B X 0.4 CFM / ft²	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
						Total	199	199					
CU-2 & FC-2													
Totals											Column I Total Design Ventilation Air		

C	Minimum ventilation rate per Section §121, Table 121-A.
E	Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
H	Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).
I	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply CFM (Fan CFM) x 50%; or the design zone outdoor airflow rate per §121.
K	Condition area (ft²) x 0.4 CFM / ft²; or.
L	Maximum of Columns H, J, K, or 300 CFM
M	This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.
N	Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column H minus M.

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MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) — MECH-5C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

CHILLER AND TOWER SUMMARY

Equipment Name	Type	Qty.	Efficiency	Tons	PUMPS Qty.	GPM	BHP	Pump Control

DHW / BOILER SUMMARY

System Name	Type	Distribution	Qty.	Rated Input	Vol. (Gals).	Energy Factor or RE	Standby Loss or Pilot	Tank Ext. R-Value	Status
Noritz NC-199-OD	Instant Gas	Kitchen Pipe Ins	2	199,000	0	1.00	n/a	n/a	New

MULTI-FAMILY CENTRAL WATER HEATING DETAILS

Control	Hot Water Pump Qty.	HP	Type	Hot Water Piping Length (ft) In Plenum	Outside	Buried	Add ½" Insulation
							☐
							☐
							☐

CENTRAL SYSTEM RATINGS

System Name	Type	Qty.	HEATING Output	Aux. kW	Efficiency	COOLING Output	Efficiency	Status
RTU-1 - AAON RN006	Packaged VAV	1	72,900	6.0	81% AFUE	62,210	14.3 SEER / 12.5 EER	New
RTU-2 - AAON RQ003	Packaged VAV	1	48,600	6.0	81% AFUE	38,250	15.7 SEER / 13.6 EER	New
RTU-3 - AAON RQ003	Packaged VAV	1	48,600	6.0	81% AFUE	44,020	15.7 SEER / 13.6 EER	New
RTU-4 - AAON RQ003	Packaged VAV	1	48,600	6.0	81% AFUE	43,120	15.7 SEER / 13.6 EER	New
RTU-5 - AAON RQ003	Packaged VAV	1	48,600	6.0	81% AFUE	44,630	15.7 SEER / 13.6 EER	New
Carrier 25VNA024 & FE4ANF002	Split DX	1	23,600	1.6	9.30 HSPF	24,190	19.1 SEER / 14.7 EER	New
Carrier RAV9R024	Split DX	1		6.0	n/a	24,000	16.7 SEER / 9.1 EER	New

CENTRAL SYSTEM FAN SUMMARY

System Name	Fan Type	Economizer Type	SUPPLY FAN CFM	BHP	RETURN FAN CFM	BHP
RTU-1 - AAON RN006	Variable Speed	Diff. Enth (Integrated)	2,800	2.00	none	
RTU-2 - AAON RQ003	Variable Speed	Diff. Enth (Integrated)	800	1.00	none	
RTU-3 - AAON RQ003	Variable Speed	Diff. Enth (Integrated)	2,000	2.00	none	
RTU-4 - AAON RQ003	Variable Speed	Diff. Enth (Integrated)	2,100	2.00	none	
RTU-5 - AAON RQ003	Variable Speed	Diff. Enth (Integrated)	2,100	2.00	none	
Carrier 25VNA024 & FE4ANF002	Constant Volume	No Economizer	900	0.50	none	
Carrier RAV9R024	Constant Volume	No Economizer	560	0.16	none	

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MECHANICAL EQUIPMENT DETAILS (Part 2 of 2) — MECH-5C

Project Name: *Pico Branch Library* | Date: *2/3/2012*

ZONE SYSTEM SUMMARY

Zone Name	System Name	Type	SYSTEM Qty.	Heating	Cooling	VAV Min CFM Ratio	Reheat Coil	Fan CFM	Fan BHP	Fan Cycles	CCM Motor	Outside Air
Zone 1 - Children's Library	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 2 - Manager Room	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 2 - group study room	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 3 - Computer Commons	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 3 - Customer Service	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 4 - Collections	Ceiling Supply	VAV Box	1	0		30 %	None			☐	☐	
Zone 5 community	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 5 Accessory	Displacement Ventilation	VAV Diffuser	1	0			None	none		☐	☐	
Zone 6	Ceiling Supply	VAV Box	1	0		30 %	None			☐	☐	
Zone 7	Ceiling Supply	VAV Box	1	0		30 %	None			☐	☐	
										☐	☐	
										☐	☐	
										☐	☐	
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										☐	☐	
										☐	☐	

EXHAUST FAN SUMMARY

EXHAUST FAN Room Name	Qty.	CFM	BHP	EXHAUST FAN Room Name	Qty.	CFM	BHP	EXHAUST FAN Room Name	Qty.	CFM	BHP
Restrooms	1.0	640	0.13								

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ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name: *Pico Branch Library* | Date: *2/3/2012*

DESCRIPTION

Building Envelope Measures:

§118(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.
§118(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.
§118(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.
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§116(a) 1:	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).
§116(a) 2:	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§116(a) 3:	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§116(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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LIGHTING MANDATORY MEASURES: NONRESIDENTIAL — LTG-MM

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Indoor Lighting Measures:

§131(d):		**Shut-off Controls**
	1.	For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.
	2.	Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
§119(h):		Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.
§111:		Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.
§131(a):		Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.
§131(b):		Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.
§131(c):		Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.
§131(c):		Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6.

Outdoor Lighting Measures:

§130(c)1:	Mandatory lighting power determination for medium base sockets without permanently installed ballasts
§132(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled by a motion sensor.
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements.
§132(c)1:	All permanently installed outdoor lighting meets the control requirements listed.
§132(c):	Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.

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MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL — MECH-MM

Project Name: *Pico Branch Library* | Date: *2/3/2012*

Equipment and System Efficiencies

§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.
§115(a):	Fan type central furnaces shall not have a pilot light.
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.
§124:	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the CMC Standards.

Controls

§122(e):		Each space conditioning system shall be installed with one of the following:
	1A.	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or
	1B.	An occupancy sensor to control the operating period of the system; or
	1C.	A 4-hour timer that can be manually operated to control the operating period of the system.
	2.	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.
§122(g):		Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.
§122(c):		Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.
§122(b):		Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone
§122(a&b):		Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.

Ventilation

§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.
§121(f):	Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new ventilating system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance

Service Water Heating Systems

§113(c)		Installation
	3.	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110°F.
	2.	Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required.

EnergyPro 5.1 by EnergySoft User Number: 7306 **RunCode: 2012-02-03T15:22:02** ID: 06.11.00192 Page 36 of 36

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REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
MECHANICAL TITLE 24

SHEET NO. **M0.5**

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

PACKAGED ROOFTOP UNIT SCHEDULE (NATURAL GAS)

TAG	MFR & MODEL	LOCATION	AREA SERVED	NOM. CAP. (TONS)	SUPPLY AIRFLOW (CFM)	SUPPLY MIN OSA (CFM)	SUPPLY ESP (IN.WG.)	SUPPLY HP	EER	SEER	COOLING TOTAL (MBH)	COOLING SENS (MBH)	COOLING EAT DB/WB (°F)	COOLING LAT DB/WB (°F)	HEATING INTPUT (MBH)	HEATING OUTPUT (MBH)	FILTER TYPE	ELECTRICAL V/PH	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
RTU-1	AAON RN006	ROOF	CHILDREN'S LIBRARY/POP MATERIAL	6	2,800	400	2.26	2	12.5	14.3	58.0	56.0	76.3/63.4	57.6/56.4	90.0	73	MERV 13	208/3/60	–	–	83x79x44	1300	1,2,3,4,5,6,7,8,9,10,11
RTU-2	AAON RQ003	ROOF	MANAGER RM/STAFF/GROUP STUDY	3	800	350	2.07	1	13.55	15.7	37.0	26.0	81/66.2	51.1/49.4	60.0	49	MERV 13	208/3/60	–	–	83x45x45	800	1,2,3,4,5,6,8,9,10,11
RTU-3	AAON RQ003	ROOF	COMPUTER COMMONS	3	2,000	600	2.94	2	13.55	15.7	39.0	39.0	78.8/64.9	60.6/58.5	60.0	49	MERV 13	208/3/60	–	–	83x45x45	900	1,2,3,4,5,6,7,8,9,10,11
RTU-4	AAON RQ003	ROOF	COLLECTION & SEATING	3	2,200	700	3.06	2	13.55	15.7	38.0	38.0	76.3/63.4	59.7/57.4	60.0	49	MERV 13	208/3/60	–	–	83x45x45	900	1,2,3,4,5,6,7,8,9,10,11
RTU-5	AAON RQ005	ROOF	COMMUNITY ROOM	3	2,200	740	3.06	2	13.55	15.7	39.0	39.0	78.6/64.8	61.2/58.6	60.0	49	MERV 13	208/3/60	–	–	83x45x45	900	1,2,3,4,5,6,7,8,9,10,11

1

NOTES
1. FUSED DISCONNECT PROVIDED BY ELEC CONTRACTOR.
2. SEE PLUMBING PLAN FOR GAS LINE AND CONDENSATE DRAIN LINE.
3. PROVIDE 14" PRE-FABRICATED ROOF CURB WITH SPRING ISOLATORS.
4. VERTICAL DISCHARGES FOR SUPPLY AIR AND RETURN AIR.
5. PROVIDE ENVIRONMENTAL PROTECTIVE PAINT ON COILS.
6. PROVIDE MANUFACTURER PROGRAMMABLE THERMOSTAT CAPABLE TO CONNECT WITH BMS SYSTEM.
7. PROVIDE CO2 SENSOR TO MODULATE THE OUTSIDE AIR INTAKE TO MEET THE CODE REQUIREMENT.
8. PROVIDE ECONOMIZER WITH POWER EXHAUST FAN.
9. REFRIGERANT TYPE R-410A.
10. PROVIDE CONVENIENCE POWER OUTLET.
11. FRESH AIR INTAKE MUST BE MIN. 10' AWAY FROM ANY EXHAUST AIR OR VENT.

1

FAN SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	LOCATION	AREA SERVED	TYPE	C.F.M.	E.S.P. (IN.)	FAN R.P.M.	DRIVE	ELECTRICAL VOLTAGE V./PH./HZ	ELECTRICAL HP	DIMENSION LxWxH (IN)	OPER. WT. (LBS.)	REMARKS
EF 1	COOK 100 ACE-B	ROOF	MAIN RESTROOMS	CENTRIFUGAL	640	0.49	1532	BELT	120/1/60	0.125	24x24x22	30	1,2,4
EF 2	COOK 90 ACWD	WALL	LOUNGE	CENTRIFUGAL	180	0.44	1710	DIRECT	120/1/60	0.125	22x22x16	28	1,2
EF 3	COOK 70 ACE-B	ROOF	PANTRY	CENTRIFUGAL	130	0.34	1150	BELT	120/1/60	0.167	24x24x22	30	1,2,4
EF 4	COOK 60 ACE-B	ROOF	COMMUNITY RESTROOMS	CENTRIFUGAL	70	0.32	1112	BELT	120/1/60	0.167	24x24x22	30	1,2,4
EF 5	COOK 70 ACE-B	ROOF	ELECTRICAL ROOM	CENTRIFUGAL	130	0.34	1150	BELT	120/1/60	0.167	24x24x22	30	2,3,4
GV 1	COOK 8 PR	ROOF	AV ROOM	GRAVITY	20	0.15	–	–	–	–	19X19X8	–	4

1

NOTES
1. PROVIDE PROGRAMMABLE CONTROL TO TURN ON THE FAN DURING OPERATING HOURS BY BMS SYSTEM.
2. EXHAUST AIR DISCHARGE MUST BE 10' AWAY FROM ANY FRESH AIR INTAKE.
3. EXHAUST FAN SHOULD BE ON BY ROOM THERMOSTAT WHEN ROOM TEMPERATURE IS HIGHER THAN 85°F. SYSTEM SHOULD BE MONITORED BY BMS SYSTEM.
4. PROVIDE MANUFACTURED ROOF CURB.

ROOFTOP UNIT - SEQUENCE OF OPERATION

1. GENERAL NOTES:

A. PROVIDE ALL NECESSARY HARDWARE AND SOFTWARE INCLUDING, BUT NOT LIMITED TO, CONTACTS, INSTRUMENTATION, WIRING AND CONDUITS TO ACCOMPLISH THE FOLLOWING CONTROL AND CONTROL SEQUENCE FOR THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM UNLESS OTHERWISE NOTED ON THE DRAWINGS AND SPECIFIED ELSEWHERE.
B. ALL CONTROL SET POINTS SHALL BE ADJUSTABLE.

2. ROOFTOP PACKAGE UNITS:

A. ROOFTOP UNITS SHOULD BE CONTROLLED AND MONITORED BY THE BMS. UNITS SHOULD BE ON DURING THE OPERATING HOURS.
B. DUCT SMOKE DETECTOR IN THE MAIN SUPPLY AIR DUCT SHOULD TURN OFF RTU, WHEN SMOKE IS DETECTED.
C. SUPPLY ROOM TEMPERATURE SHOULD BE PRE-SET AT THE BMS SYSTEM. ROOM THERMOSTAT SHOULD ALLOW THE ROOM OCCUPANTS TO ADJUST THE ROOM TEMPERATURE BY +/- 2°F.
D. PRESSURE SENSOR IN THE UNDERFLOOR AIR PLENUM SHOULD ADJUST THE SUPPLY FAN TO INCREASE/DECREASE THE SUPPLY AIR VOLUME. PRESSURE IN THE UNDERFLOOR AIR PLENUM WILL BE CHANGED BASED ON THE DIFFUSER AIR VOLUME ADJUSTMENT ON THE RISED FLOOR.
E. CO2 SENSOR IN THE ROOM TO MODEULATE THE OUTSIDE AIR DAMPER OF RTU TO MEET THE MINIMUM AIR QUALITY REQUIREMENTS.
F. ECONOMIZER CONTROLLER SHALL CONTROL THE RETURN AND OUTDOOR AIR DAMPERS AND POWER EXHAUST FAN FOR MAXIMUM FREE COOLING. ENTHALPY ECONOMIZER CONTROLS SHALL BE PROVIDED. ECONOMIZER SHOULD OVERRIDE THE CO2 CONTROL.
   1. WHEN OUTDOOR ENTHALPY IS ABOVE THE RETURN AIR ENTHALPY, SYSTEM SHALL OPERATE WITH MINIMUM OUTSIDE AIR REQUIRED FOR VENTILATION. OA ECONOMIZER DAMPER SHALL BE CLOSE AND THE FLOW METER AT MINIMUM OUTSIDE AIR DUCT SHALL MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN THE DESIGN MINIMUM OUTDOOR VENTILATION FOR THE SYSTEM
   2. WHEN THE OUTDOOR AIR ENTHALPY IS BELOW THE RETURN AIR ENTHALPY AND THE OUTDOOR TEMPERATURE IS ABOVE THE DISCHARGE DUCT TEMPERATURE SETPOINT, OA ECONOMIZER DAMPER WITH THE MINIMUM OA DAMPER SHALL BE POSITIONED FOR 100% OUTSIDE AIR. ANY ADDITIONAL COOLING WILL BE PROVIDED BY CHILLED WATER COILS.
   3. WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE SUPPLY DUCT TEMPERATURE SETPOINT, ECONOMIZER DAMPERS SHALL BE MODULATED TO MIX RETURN AIR AND OUTSIDE AIR SO THAT THE DISCHARGE DUCT TEMPERATURE SETPOINT IS MAINTAINED.

FAN COIL UNIT SCHEDULE

TAG	MFR & MODEL	LOCATION / MOUNTING	AREA SERVED	SUPPLY AIR (CFM)	OSA (CFM)	ESP (IN.WG.)	COOLING COIL TOTAL COOLING (MBH)	HEATING COIL TOTAL HEATING (MBH)	ELECTRICAL V/PH	ELECTRICAL MOTOR MCA	ELECTRICAL MOTOR FLA	ELECTRICAL MOTOR FUSE	SEER	OUTDOOR UNIT	UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
FC-1	CARRIER FE4ANF002000	CEILING CONCEALED	WORK ROOM	600	190	0.65	25.0	24.0	208/1	5.4	4.3	15.0	19.1	CU-1	22x18x43	135	1,2,3,4,5
FC-2	CARRIER RAV-SP240KRT-UL	WALL MOUNTED	IT ROOM	560	0	0.25	25.0	N/A	208/1	N/A	N/A	N/A	16.7	CU-2	9x41x13	31	1,2,3

NOTES:
1. FUSE DISCONNECT BY ELECTRICAL CONTRACTOR
2. SIZE REFRIGERANT PIPES PER MANUFACTURER'S INSTALLATION MANUAL AND ACTUAL CONSTRUCTION CONDITIONS.
3. INSULATE REFRIGERANT PIPES PER MANUFACTURER'S RECOMMENDATIONS
4. PROVIDE FLEXIBLE SA & RA DUCT CONNECTIONS.
5. PROVIDE CEILING ACCESS PANEL FOR UNIT MAINTENANCE.

1

AIR-COOLED CONDENSER UNIT SCHEDULE

TAG	MFR & MODEL	LOCATION	EQUIP. SERVED	NOM. CAP. (TONS)	EER	SEER	REFRIG	ELECTRICAL V/PH	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	UNIT SIZE (L"XW"xH")	OPER. WT. (LBS)	NOTES
CU-1	CARRIER 25VNA024A003	ROOF	FC-1	2.0	14.7	19.1	R-410	208/1	23.5	30	36x39x50	367	1,2,3,4,5
CU-2	CARRIER RAV-SP240AT2-UL	ROOF	FC-2	2.0	9.1	16.7	R-410	208/1	24.0	40.0	13x35x35	135	1,2,3,4,5

NOTES
1. FUSED DISCONNECT PROVIDED BY ELEC CONTRACTOR.
2. CAPACITY RATED AT ARI STANDARD CONDITIONS.
3. INSULATE REFRIGERANT PIPES PER MANUFACTURER'S RECOMMENDATIONS
4. SIZE REFRIGERANT PIPES PER UNIT MANUFACTURER'S INSTALLATION MANUAL AND ACTUAL CONSTRUCTION CONDITIONS.
5. MOUNT ON LEVELED PLATFORM WITH NEOPRENE PAD. THE SHALLOW SIDE OF THE PLATFORM MUST BE MIN. 4" ABOVE THE ROOF.

DIFFUSER AND GRILLE SCHEDULE

TAG	MFR	MODEL	DESCRIPTION	FACE TYPE	FACE SIZE (IN.)	COLOR / FINISH	MATERIAL	OBD	NOTES
A	KRUEGER	FPDFR-R	RAISED FLOOR DIFFUSOR	CURVED SLOT	9 3/4"	PER ARCHITECT	POLYCARBONATE	NO	1,2,3,4,5
B	TITUS	PAR-AA	CEILING RETURN/EXHAUST GRILLE	SURFACE MOUNT	12"x12"	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5
C	TITUS	3FL	SIDEWALL RETURN/EXHAUST GRILLE	SURFACE MOUNT	DUCT SIZE + 3"	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5
D	TITUS	ML	SLOT SUPPLY	SLOT	2 X 1" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5
E	TITUS	MLR	SLOT RETURN	SLOT	4 X 1" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5,7
F	TITUS	MLR	SLOT RETURN	SLOT	2 x 1" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,6,7
G	TITUS	MLR	SLOT RETURN	SLOT	1" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,6,7
H	TITUS	ML	SLOT SUPPLY	SLOT	1" SLOT	PER ARCHITECT	ALUMINUM	NO	1,2,3,4,5

NOTES
1. MAXIMUM TOTAL PRESSURE DROP SHALL BE 0.1" WG.
2. MAXIMUM NC LEVEL SHALL BE 35.
3. ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.
4. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.
5. NECK SIZE AND CFM SHOWN ON PLANS (E.G. 12x12-A-400 REFERS TO TAG "A" WITH 12x12 NECK AND 400 CFM).
6. PLENUM CONNECTION SIZE, SLOT LENGTH, AND CFM SHOWN ON PLANS (E.G. 8-120-A-2000 REFERS TO TAG "A" WITH 8" ROUND CONNECTION(S), 120" CONTINUOUS SLOT LENGTH AND 2000 CFM).
7. PROVIDE MANUFACTURER'S INSULATED PLENUM.

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CITY OF SANTA MONICA
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DRAWING NO. **6693**

SHEET TITLE
MECHANICAL UNIT SCHEDULES

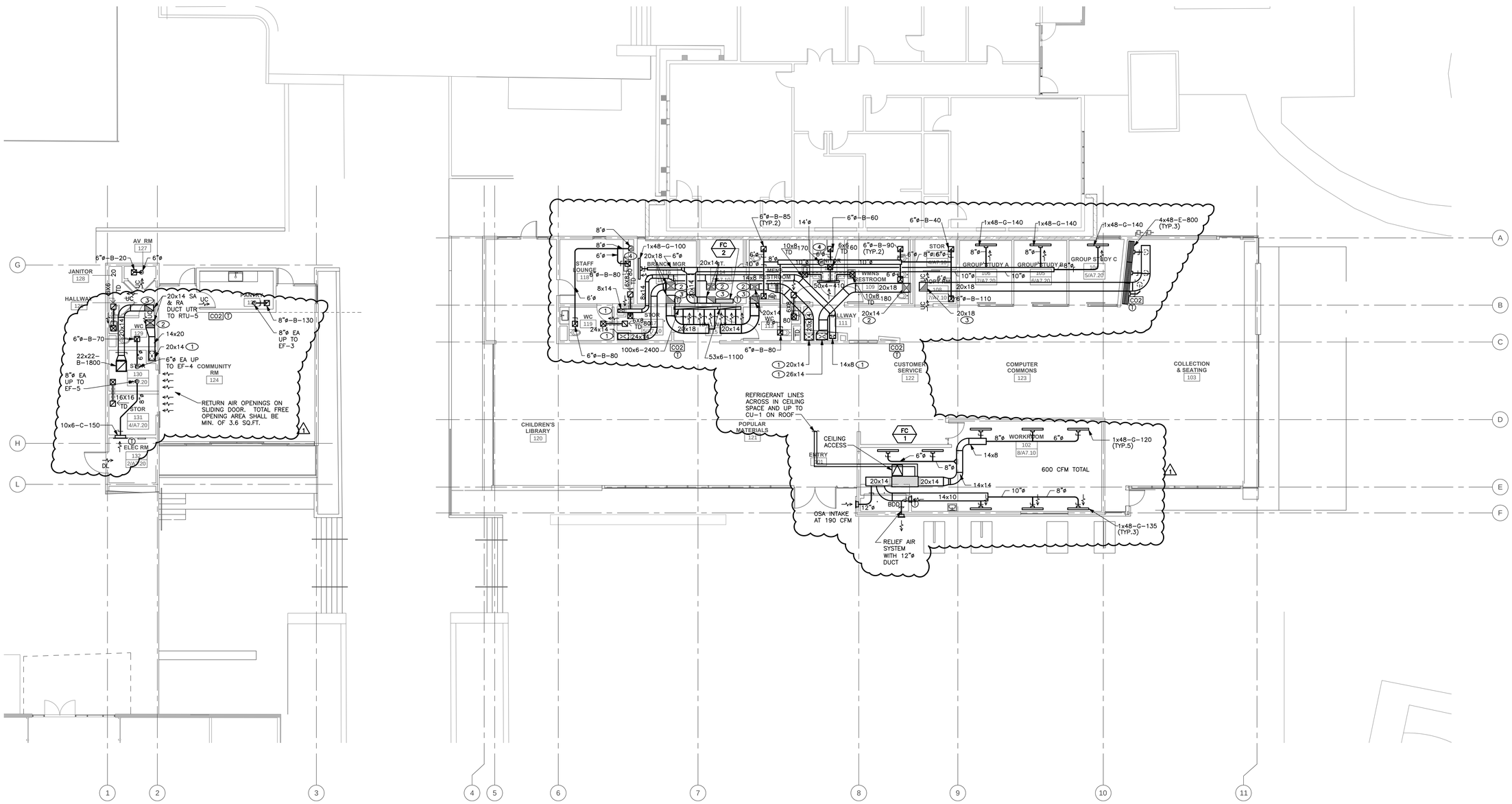
SHEET NO.
M1.0

SHEET OF

DWG. NO. -

SHEET NOTES

1. SUPPLY AIR DUCT DOWN TO AIR PLENUM LEVEL
2. SUPPLY AIR DUCT UP TO RTU ON ROOF
3. RETURN AIR DUCT UP TO RTU ON ROOF
4. EXHAUST AIR DUCT UP TO EXHAUST FAN ON ROOF



1 MECHANICAL FLOOR PLAN

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

0 4' 8' 16'

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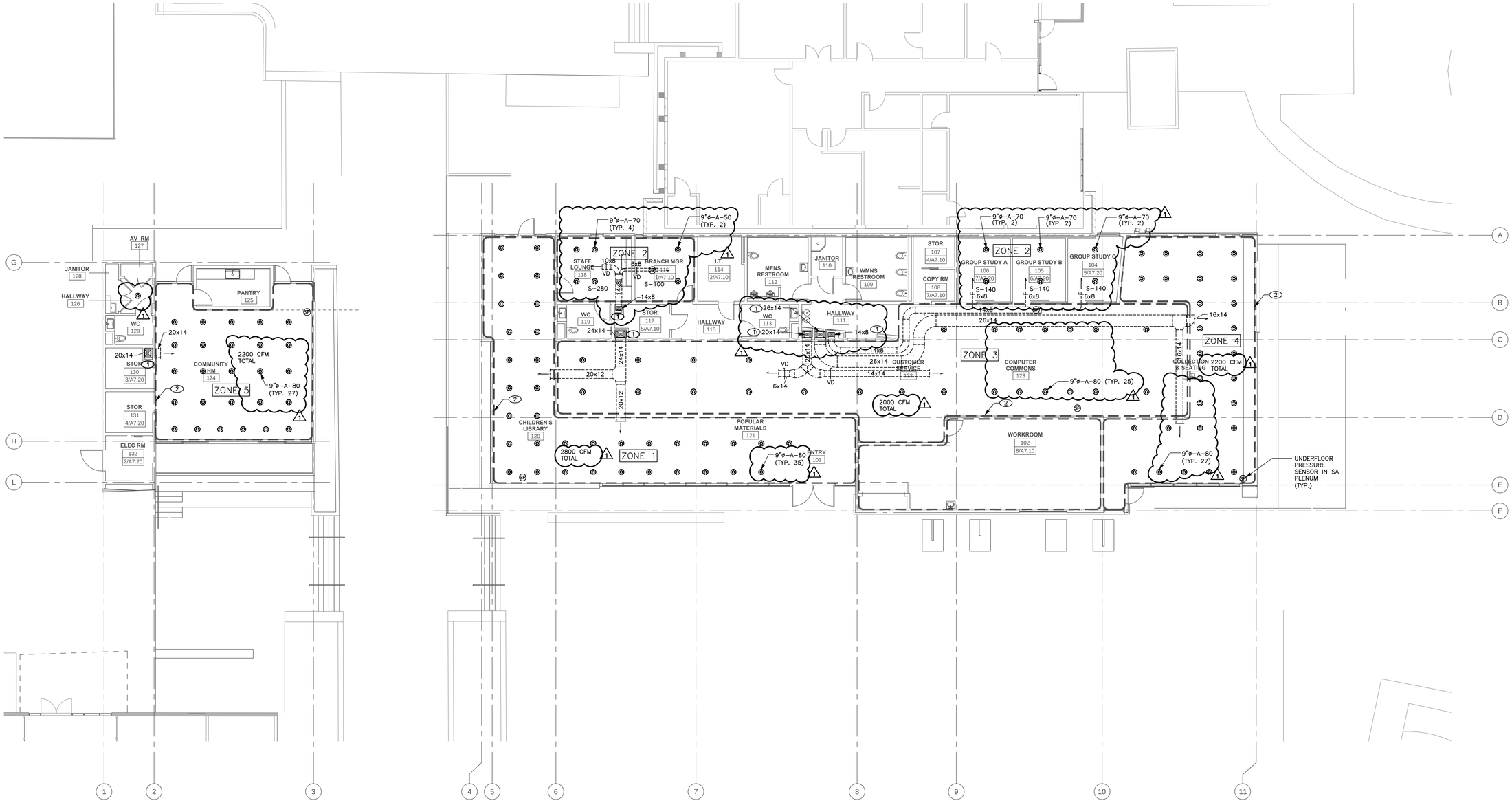
SHEET TITLE
MECHANICAL FLOOR PLAN

SHEET NO.
M2.0

SHEET NOTES

1. SUPPLY AIR DUCT UP TO CEILING LEVEL
2. TEMPERATURE CONTROL ZONING
EACH ZONE IS SERVED BY INDIVIDUAL ROOFTOP UNIT. ZONING UNDERFLOOR SUPPLY AIR PLENUM MUST BE AIRTIGHT.



1 **MECHANICAL FLOOR PLAN (UNDERFLOOR)**
SCALE: 1/8"=1'-0"

0 4' 8' 16'

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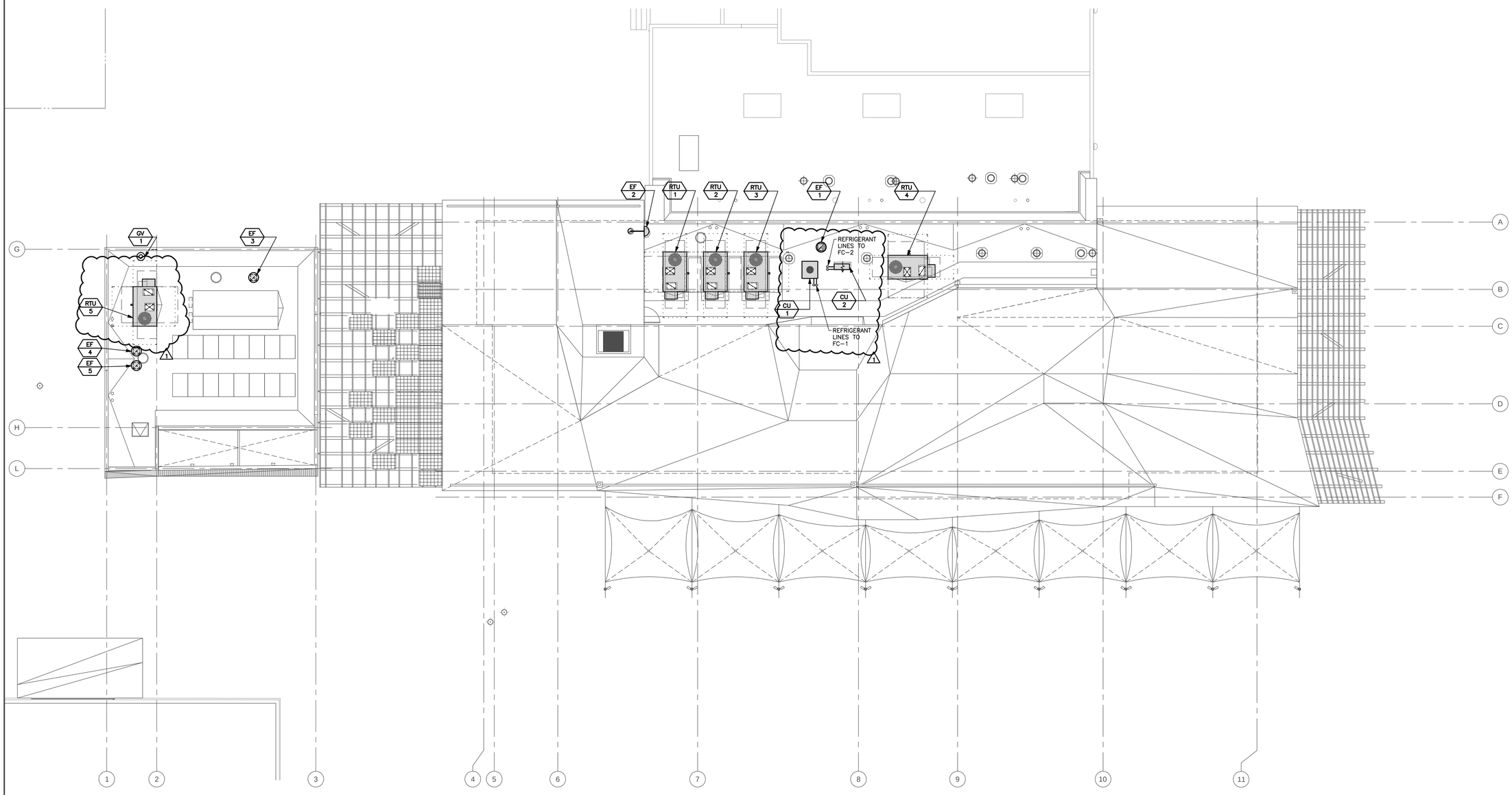
SHEET TITLE
MECHANICAL FLOOR PLAN (UNDERFLOOR)

SHEET NO.
M2.1

SHEET OF

DWG. NO. -

TITLE OF PROJECT



1 **MECHANICAL ROOF PLAN**
SCALE: 1/8"=1'-0"

0 4' 8' 16'

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SHEET TITLE
MECHANICAL ROOF PLAN

SHEET NO.
M2.2

SHEET OF

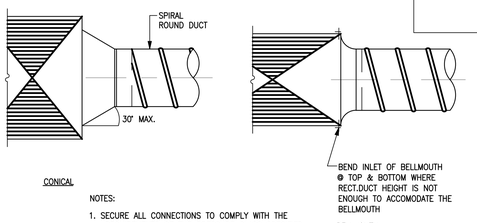
DWG. NO. -

TITLE OF PROJECT:

DUCT FITTING LEGEND

SINGLE LINE	DOUBLE LINE ROUND DUCT	DOUBLE LINE RECTANGULAR DUCT		DESCRIPTION
	R=1.5W	W/SINGLE THICKNESS TURNING VANES	R=1.5W	90° ELL
				45° ELL
				REDUCER
		N/A		45° TEE
	N/A			45° – 90° TEE
		N/A		CONICAL 90° TEE
		N/A		CONNECTION BETWEEN RIGID AND FLEXIBLE DUCT
				Y–FITTING
				ACOUSTICALLY LINED DUCT
				SQUARE TO ROUND TRANSITION

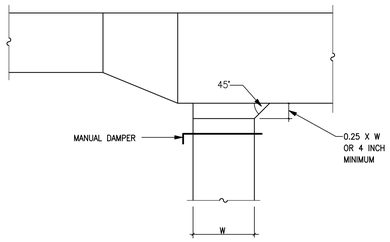
DUCT FITTING LEGEND (1)



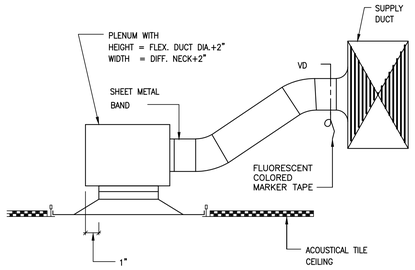
NOTES:

1. SECURE ALL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE PRESSURE CLASS SPECIFIED.
2. SUPPLY ROUND DUCT TAKE–OFF IS SHOWN. RETURN/EXHAUST SIMILAR.

ROUND DUCT TAKE-OFF CONN. TO RECTANGULAR DUCT (2)



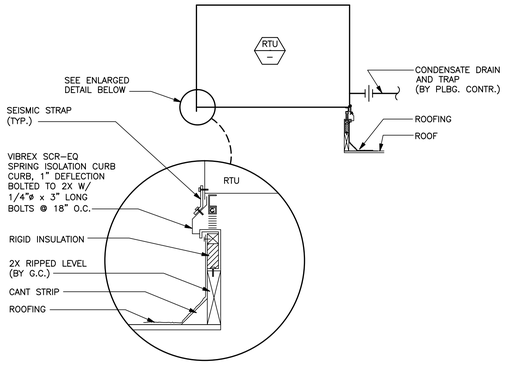
45 DEG. ENTRY BRANCH TAKE-OFF (3)



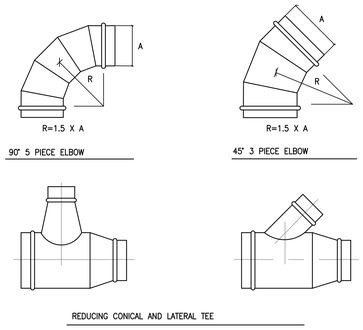
NOTES:

1. ACOUSTICAL TILE CEILING SHOWN. GYP. BOARD CEILING SIMILAR.
2. USE THIS DETAIL FOR TIGHT CEILING SPACE WHERE TOP CONNECTION AT DIFFUSER OR GRILLE CANNOT BE ACHIEVED.

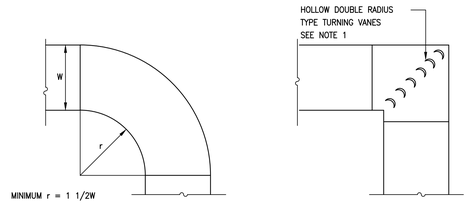
DIFFUSER SIDE CONNECTION (4)



ROOFTOP UNIT MOUNTING DETAIL (5)



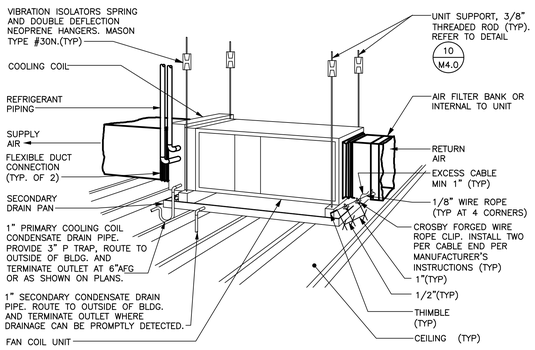
ROUND DUCT FITTINGS (6)



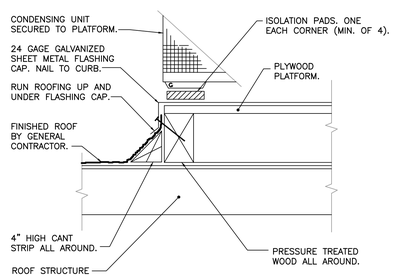
NOTE 1 : FOR DUCT WIDTH LESS THAN 18" USE MINIMUM 26 GA VANES AT 2–1/8" O.C. FOR DUCT 18" AND WIDER, USE MINIMUM 24 GA VANES AT 3–1/4" O.C.

2. FOR VANES WITH 2 1/2" O.C. PROVIDE INNER VANE RADIUS OF 2 INCHES. FOR VANES 3 1/2" O.C. PROVIDE INNER RADIUS OF 4 1/2 INCHES.

RETANGULAR DUCT ELBOWS (7)

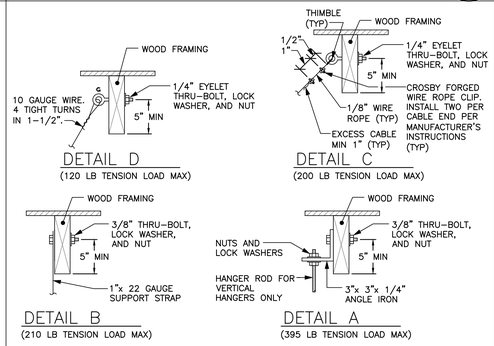


SUSPENDED FAN COIL UNIT (8)



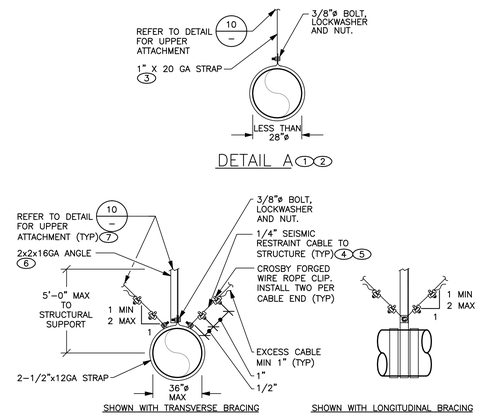
NOTE: SEE STRUCTURAL PLANS FOR PLATFORM DETAIL.

ROOF MOUNTED CONDENSING UNIT (9)



NOTE:
SEE SMACNA SEISMIC RESTRAINT MANUAL FIGURE 8–15 AND TABLE 8–1.

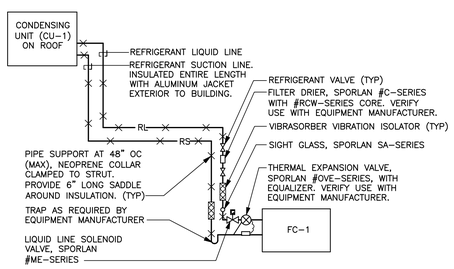
WOOD UPPER ATTACHMENTS (10)



NOTES:

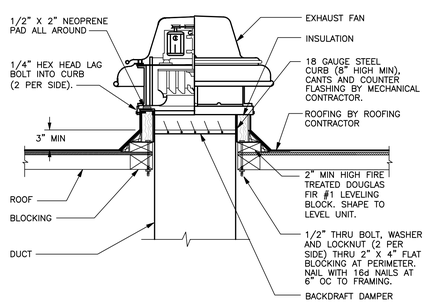
1. HANGERS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION AND NO MORE THAN 10'–0" APART.
2. PROVIDE A FLEXIBLE CONNECTION BETWEEN MECHANICAL EQUIPMENT AND DUCT.
3. STRAP MAY BE REDUCED TO 1" X 22GA FOR DUCT 24"ø AND LESS IN DIAMETER.
4. SEISMIC RESTRAINT CABLES MAY BE OMITTED WHERE DUCT IS SUPPORTED WITHIN 12" OF STRUCTURE AS MEASURED FROM THE TOP OF DUCT TO THE BOTTOM OF STRUCTURE.
5. WHERE SEISMIC CABLE RESTRAINTS ARE REQUIRED,
   A. PROVIDE SEISMIC CABLE TRANSVERSE BRACING AT 30 FT AND
   B. SEISMIC CABLE LONGITUDINAL BRACING AT 60 FT.
   C. SEISMIC CABLE RESTRAINTS ARE NOT REQUIRED AT EVERY HANGER LOCATION.
6. VERTICAL HANGERS, DIAGONAL AND HORIZONTAL BRACES TO BE SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL TABLE 5–6.
7. SIZE ANCHORS IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL TABLE 8–1, TYPE C FOR CONCRETE AND TYPE A FOR ALL OTHERS.

ROUND DUCT SUPPORT (14)



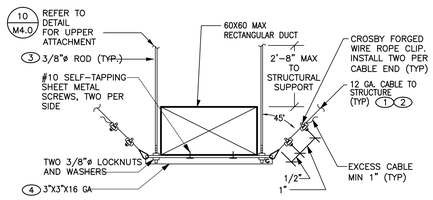
NOTE: SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.

REFRIGERANT PIPING SCHEMATIC (11)



NOTE: REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

ROOF EXHAUST FAN (12)



NOTES:

1. SEISMIC RESTRAINT CABLES MAY BE OMITTED WHERE:
   A. THERE IS A FLEXIBLE CONNECTION BETWEEN THE MECHANICAL EQUIPMENT AND
   B. RECTANGULAR DUCT IS LESS THAN 6 SQUARE FEET IN AREA OR
   C. DUCT OF ANY SIZE IS SUPPORTED WITHIN 12" OF STRUCTURE AS MEASURED FROM THE TOP OF DUCT TO THE BOTTOM OF STRUCTURE.
2. WHERE SEISMIC RESTRAINTS ARE REQUIRED,
   A. PROVIDE TRANSVERSE BRACING AT 30 FT AND
   B. LONGITUDINAL BRACING AT 60 FT.
3. VERTICAL HANGERS, DIAGONAL AND HORIZONTAL BRACES TO BE SIZED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL TABLE 5–1 AND 5–2.

RECTANGULAR DUCT SUPPORT (13)

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DRAWING NO. **6693**

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M4.0

SHEET OF

DWG NO. -

TITLE OF PROJECT

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE		DIRECTION OF SLOPE
	BUTTERFLY VALVE		DIRECTION OF FLOW
	GATE VALVE		PIPE UP
	ANGLE GATE VALVE		PIPE DOWN
	OS & Y GATE VALVE		PIPE DROP
TS TS	OS & Y GATE VALVE WITH TAMPER SWITCH		TOP CONNECTION – BRANCH LINE
S	SOLENOIDE VALVE		BOTTOM CONNECTION – BRANCH LINE
	LUBRICATED PLUG VALVE	F	FIRE MAIN
	CHECK VALVE	AS	AUTOMATIC WET SPRINKLER
	PRESSURE REDUCING VALVE		COLD WATER
	RELIEF VALVE		HOT WATER (120°F)
	VACUUM RELIEF VALVE		HOT WATER CIRC (120°F)
	PRESSURE & TEMPERATURE RELIEF VALVE	140	HOT WATER (140°F)
	AUTOMATIC AIR VENT	140	HOT WATER CIRC (140°F)
	CIRCUIT SETTER	SAN	SANITARY SEWER
	BACKWATER VALVE	SD	STORM DRAIN
DDCV	DOUBLE DETECTOR CHECK VALVE ASSEMBLY		PIPING BELOW GRADE
DCV	DOUBLE CHECK VALVE ASSEMBLY		WASTE
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER		VENT
PS	PRESSURE SWITCH	RD	ROOF DRAIN PIPING
FA	FLOW ALARM	OD	OVERFLOW DRAIN PIPING
FS	FLOW SWITCH	PD	PUMPED DISCHARGE
	UNION	D	INDIRECT DRAIN LINE
	STRAINER	IW	INDUSTRIAL WASTE
	STRAINER WITH BLOW OFF	GW	GREASY WASTE
	PIPE ANCHOR	G	NATURAL GAS (7"W.C.)
	PIPE ALIGNMENT GUIDE	MG	MEDIUM PRESSURE GAS (2#)
	EXPANSION JOINT	CA	PROCESS COMPRESSED AIR
	FLEXIBLE CONNECTOR	(E)	EXISTING PIPE
	CAP OR PLUG		PIPING TO BE REMOVED
	BLIND FLANGE	W	WASTE STACK
	CONCENTRIC REDUCER	V	VENT STACKS
	ECCENTRIC REDUCER	CW	COLD WATER RISER
	AQUASTAT	HW	HOT WATER RISER
WHA	WATER HAMMER	HWC	HOT WATER RECIRC. RISER
PG	PRESSURE GAUGE WITH COCK	G	NATURAL GAS RISER
T	THERMOMETER	RD	RAINWATER LEADER
CO	CLEANOUT PLUG	OD	OVERFLOW DRAIN LEADER
FCO	FLOOR CLEANOUT	CA	COMPRESSED AIR RISER
YCO	YARD CLEANOUT	AS	AUTOMATIC WET SPRINKLER RISER
TT	TEST TEE	ASD	AUTOMATIC SPRINKLER DRAIN
WH	WALL HYDRANT	WSP	WET STANDPIPE RISER
HB	HOSE BIBB		PLUMBING EQUIPMENT
YH	YARD HYDRANT		MISCELLANEOUS EQUIPMENT
	THRUST BLOCK	#	SHEET NOTE
FDC	FIRE DEPARTMENT CONNECTION		
	FIRE RISER		
FDV	FIRE DEPARTMENT VALVE		
	FIRE DEPARTMENT VALVE CABINET		
	SIEMESE FIRE DEPT. CONN.		
	FIRE ALARM BELL		
FD	FLOOR DRAIN		
FS	FLOOR SINK		
	HUB DRAIN		
	FIRE RISER		

ABBREVIATIONS

⌀	SQUARE FEET
	POINT OF CONNECTION
&	AND
@	AT
#	POUNDS
#	NUMBER
/	PER
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
AS	AUTOMATIC FIRE SPRINKLER SYSTEM
BEL	BELOW
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONTR	CONTRACTOR
CONT	CONTINUATION
CS	CIRCUIT SETTER
CV	CHECK VALVE
CW	COLD WATER
CWFU	COLD WATER FIXTURE UNIT
DN	DOWN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNIT
HWC	HOT WATER CIRC
DIA	DIAMETER
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DSP	DRY STANDPIPE SYSTEM
DWV	DRAINAGE WASTE AND VENT
EXIST	EXISTING
ELEC	ELECTRICAL
FA	FLOW ALARM
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FDC	FIRE DEPARTMENT CONNECTION
FDVC	FIRE DEPARTMENT VALVE CABINET
FH	FIRE HYDRANT
FIN	FINISHED
FL	FLOOR
FM	FROM
FO	FUEL OIL
FPS	FEET PER SECOND
FT	FEET
FU	FIXTURE UNIT
G	GAS
GD	GARBAGE DISPOSER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HD	HUB DRAIN
HP	HORSEPOWER
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND PLUMBING OFFICIALS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
I.E.	INVERT ELEVATION
LBS	POUNDS (UNIT OF FORCE)
LPV	LUBRICATED PLUG VALVE
MAX	MAXIMUM
MBH	THOUSANDS BTU/HR
MECH	PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.	NUMBER
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OW	OIL WASTE
POC	POINT OF CONNECTION
PLBG	PLUMBING
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TEMPERATURE TRAP (PETE'S PLUG)
PV	PLUG VALVE
R,I,&C	ROUGH IN AND CONNECT
RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FEET
SHT	SHEET
SN	SHEET NOTE
SOPSC	STATE OF PLUMBING SPECIALTY CODE
SOSSC	STATE OF STRUCTURAL SPECIALITY CODE
SOV	SHUT–OFF VALVE
SPKR	SPRINKLER
TB	THRUST BLOCK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TS	TAMPER SWITCH
TT	TEST TEE
TYP	TYPICAL
UN	UNION
VB	VACUUM BREAKER
V	VENT
V	VOLTS
VTR	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEANOUT
W/	WITH
WGT	WEIGHT
WSP	WET STANDPIPE
YB	YARD BOX

PLUMBING DRAWING LIST

P.01 PLUMBING LEAD SHEET
P.02 PLUMBING SCHEDULES
P2.0 PLUMBING PLAN ENLARGED
P2.1 PLUMBING PLANS
P2.2 PLUMBING ROOF PLAN

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SHEET TITLE
PLUMBING LEAD SHEET

SHEET NO.
P0.1

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

PLUMBING FIXTURES SCHEDULE

ITEM	DESCRIPTION	TRAP ARM	WASTE	VENT	CW	HW	REMARKS
WC–1	WATER CLOSET 1.28 GPF, FT	INT	4"	2"	1–1/2"	---	"AMERICAN STANDARD" MODEL # 3351.128 "AFWALL" ELONGATED WALL MOUNT, 1.28 GPF TOILET WITH "SLOAN" ROYAL MODEL #111–1.28 HIGH–EFFICIENCY MANUAL FLUSHOMETER VALVE, 1.28 GPF, OLSONITE #95 OPEN FRONT ONSONITE #95CC–SS SEAT LESS COVER
WC–2	WATER CLOSET 1.28 GPF – FT – ADA	INT	4"	2"	1–1/2"	---	"AMERICAN STANDARD" MODEL # 3351.128 "AFWALL" ELONGATED WALL MOUNT, 1.28 GPF TOILET WITH "SLOAN" ROYAL MODEL #111–1.28 HIGH–EFFICIENCY MANUAL FLUSHOMETER VALVE, 1.28 GPF, OLSONITE #95 OPEN FRONT ONSONITE #95CC–SS SEAT LESS COVER
U–1	URINAL 1.28 GPF – FT – ADA	INT	2"	2"	1–1/2"	---	"SLOAN" #WES–1000.1001–0.13 WALL HUNG HEU URINAL, WITH "SLOAN" MODEL # WEUS–1000.1201–0.13 SOLIS, SOLAR POWERED HEU FLUSHOMETER.
L–1	LAVATORY ADA	1¼"	2"	1½"	½"	½"	"AMERICAN STANDARD" 0356.028 "LUCERNE" VITREOUS CHINA, WALL HUNG, 8" CENTERS. FAUCET: 0.5 GPM. STOPS BRASSCRAFT #ST–CR19 W/ BC #5130 SUPPLIES. ADA COMPLIANCE.
L–2	LAVATORY ADA	1¼"	1½"	1½"	½"	½"	"KOHLER" LADENA MODEL #K2214 VITREOUS CHINA, WITH OVERFLOW WALL HUNG, 8" CENTERS. FAUCET: SLOAN SOLIS 0.5 GPM. STOPS BRASSCRAFT #ST–CR19 W/ BC #5130 SUPPLIES. ADA COMPLIANCE. COLOR TO BE SELECTED
SS–1	SERVICE SINK	3"	3"	2"	¾"	¾"	"FLOORSTONE", MODEL # 80. FAUCET: "JUST" #JVB–1200, WALL MOUNT, VACUUM BREAKER SPOUT W/ PAIL HOOK AND WALL BRACE AND 3/4" MALE THREADED OUTLET.
S–1	SINK	2"	2"	2"	¾"	¾"	"JUST" MODEL # S–L–ADA–2233–A–GR, COUNTER MOUNT SINGLE 5" DEEP BOWL, 18 GAUGE TYPE 304, 18–8, STAINLESS STEEL. W/ CENTER REAR DRAIN. FAUCET: GROHE, MINTA #32319 DUAL SPRAY PULL DOWN.
S–2	SINK	2"	2"	2"	¾"	¾"	"JUST" MODEL # HCL–23520–S WALL MOUNTED SINK. WITH SENSOR OPERATED FAUCET, ADA COMPLIANT. FAUCET: "JUST" MODEL # JSGN–AAC SENSOR OPERATED FAUCET WITH CONTROL MODULE.
FD–1	FLOOR DRAIN	2"/3"	2"/3"	1½"	---	---	"J.R. SMITH" 2005(–SS) WITH TRAP PRIMER CONNECTION. TRAP PRIMER MAY BE PROVIDED BY A FLUSH VALVE ATTACHEMENT OR A "PPP" PR–500 RECESSED IN WALL BEHIND ACCESS PANEL WITH A 1/2" BALL VALVE PRECEEDING THE TRAP PRIMER, BOTH BEHIND ONE ACCESS PANEL.
EWC–1	ELECTRIC WATER COOLER	2"	2"	2"	½"	–	"HAWS" #1011, "HI–LO" BARRIER FREE DUAL HEIGHT, WALL MOUNTED, 18 GAUGE, TYPE 304 STAINLESS STEEL, PUSH–BUTTON VALVES FRONT ACCESSIBLE S/S BACK PANEL AND LOUVERED GRILL WITH #6426 IN–LINE FILTER. 120 VOLT.
TP–1	PRESSURE DROP TRAP PRIMER	---	---	---	½"	---	PPP #P–2, COPPER BODY COMPLETE 1/2" COPPER TYPE "L" PIPE TO RECECPTOR(S). INSTALL PER MANUF. RECOMMENDATIONS AND PROVIDE ACCESS PANEL
HB–1	HOSE BIBB	---	---	---	3/4"	---	"J.R. SMITH" #5906 NON FREEZE ROOF HYDRANT.
HB–2	HOSE BIBB	---	---	---	3/4"	---	"J.R. SMITH" #5619 NON FREEZE GROUND HYDRANT.
GD–1	GARBAGE DISPOSER	---	---	---	---	---	"IN–SINK–ERATOR" MODEL # SS–50. 1/2 HP DISPOSER.

1

GAS WATER HEATER SCHEDULE

ITEM	LOCATION	SERVICE	TYPE	HOT WATER CAPACITY AT 60°F	BTU/HR INPUT	ELECTRICAL DATA VOLT	ELECTRICAL DATA HZ	MANUFACTURER & MODEL NO.	OPERATING WEIGHT LBS.	REMARKS
GWH 1	ROOF	DOMESTIC HOT WATER	TANKLESS/ OUTDOOR	4.8 GPM	199,000	120	60	NORITZ NC 199–OD	110	23.6"(HEIGHT) X 13.8"(WIDTH) X 10.6"(DEPTH), SC–201–6M MULTI–SYSTEM CONTROLLER (SINGLE MANIFOLD), 120 VAC. SET @ 122°F
GWH 2	ROOF	DOMESTIC HOT WATER	TANKLESS/ OUTDOOR	4.8 GPM	199,000	120	60	NORITZ NC199–OD	110	23.6"(HEIGHT) X 13.8"(WIDTH) X 10.6"(DEPTH), SC–201–6M MULTI–SYSTEM CONTROLLER (SINGLE MANIFOLD), 120 VAC.

PUMP SCHEDULE

ITEM	SERVICE	MANUFACTURER AND MODEL	TYPE	CAPACITY GPM	CAPACITY HEAD, FT	HP	RPM	VOLTS	PHASE	WGT	REMARKS
CPR 1	HOT WATER GWH–1	B&G SERIES PR	INLINE	5	15	1/6	1750	120	1	50	INLINE CIRCULATING PUMP FOR DOMESTIC HOT WATER WITH TC–1 (AUTOMATIC TIMER KIT) AND AQ (AQUATAT).

EXPANSION TANK SCHEDULE

ITEM	SERVICE	MANUFACTURER AND MODEL	TANK VOL.	OPER. WT.	MAX. TEMP	DIMENSIONS	REMARKS
ET 1	DOMESTIC HOT WATER GWH–1	WATTS PLT–5	2.1 GAL	5.5 LBS	200°F	8" DIA., 11" LONG	DRAWN STEEL W/BUTYL DIAPHRAGM
ET 2	DOMESTIC HOT WATER GWH–2	WATTS PLT–5	2.1 GAL	5.5 LBS	200°F	8" DIA., 11" LONG	DRAWN STEEL W/BUTYL DIAPHRAGM

PIPE SIZE CHART

SIZE	CW F.V.	CW F.T.	HW F.T.
1/2"	0	1	1
3/4"	0	6	6
1"	0	13	13
1–1/4"	0	24	24
1–1/2"	10	47	47
2"	64	158	120
2–1/2"	245	380	246
3"	630	691	412
MAX. VELOCITY C.W.(8 F.P.S.)			MAX. VELOCITY H.W.(5 F.P.S.)

ALL PIPE SIZING BASED ON 3.0 PSI PER 100 FT. FRICTION LOSS.

PIPE SCHEDULE

SERVICE	LOCATION	TYPE "L" COPPER	TYPE "M" COPPER	NO–HUB CAST IRON	SCH. 40 BLACK STEEL	SCH. 40 GALV. STEEL	ABS – SINGLE PIPING	FITTINGS
WATER	INSIDE	●						LEAD FREE SOLDERED FITTINGS
	OUTSIDE	●						LEAD FREE SOLDERED FITTINGS
WASTE	ABV. FLR.			●				TYLER 4–BAND NO–HUB COUPLINGS
	BEL. FLR.					●		
VENT	ABV. FLR.			●				TYLER 2–BAND NO–HUB COUPLINGS
	BEL. FLR.			●				TYLER 2–BAND NO–HUB COUPLINGS
STORM DRAIN	ABV. FLR.			●				TYLER 4–BAND NO–HUB COUPLINGS
	BEL. FLR.			●				TYLER 4–BAND NO–HUB COUPLINGS
CONDENSATE DRAIN	INSIDE	●						LEAD FREE SOLDERED FITTINGS
	OUTSIDE	●						LEAD FREE SOLDERED FITTINGS
NATURAL GAS	INSIDE				●			SCHEDULE 40 THREADED FITTINGS
	OUTSIDE				●			SCHEDULE 40 THREADED FITTINGS

WATER FIXTURE UNIT CHART 2010 CPC & UPC.

FIXTURE	CW FU	HW FU
WC (WATER CLOSET) FLUSH VALVE	5	–
L (LAVATORY)	1	1
S (SINK)	2	2
SS (SERVICE SINK)	3	3
HB (HOSE BIBB)	2.5	–
EACH ADDITIONAL HB	1	

DRAINAGE FIXTURE UNIT CHART 2010 CPC & UPC.

FIXTURE	FU
WC (WATER CLOSET)	4
L (LAVATORY)	1
S (SINK)	2
SS (SERVICE SINK)	3
FD	2
FS	1

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DATE : 20
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

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SHEET TITLE
PLUMBING SCHEDULES

SHEET NO.
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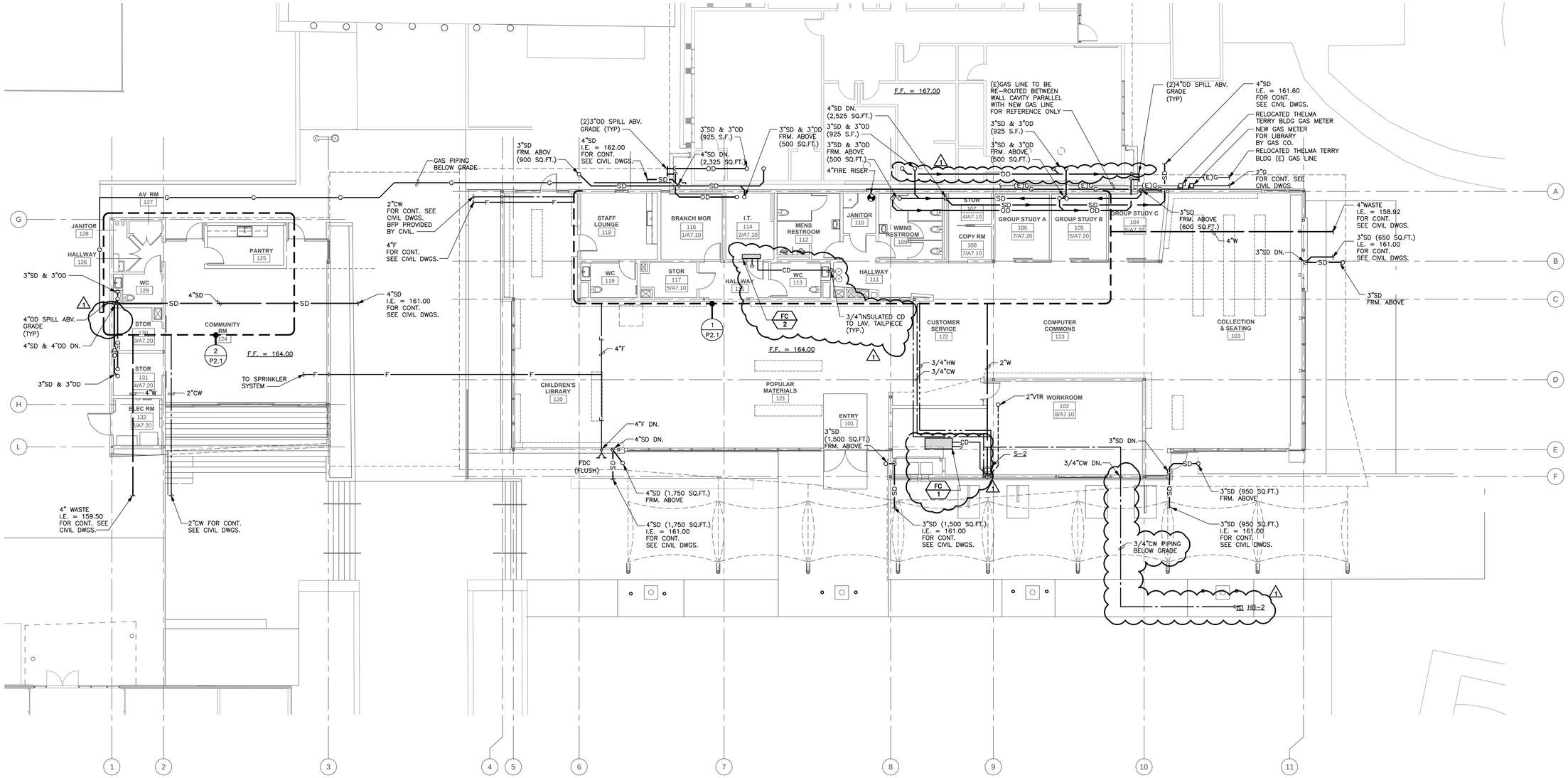

1 PLUMBING PLAN

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

0 4' 8' 16'

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1	02/21/12		ADDENDUM 2

REVISIONS

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ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

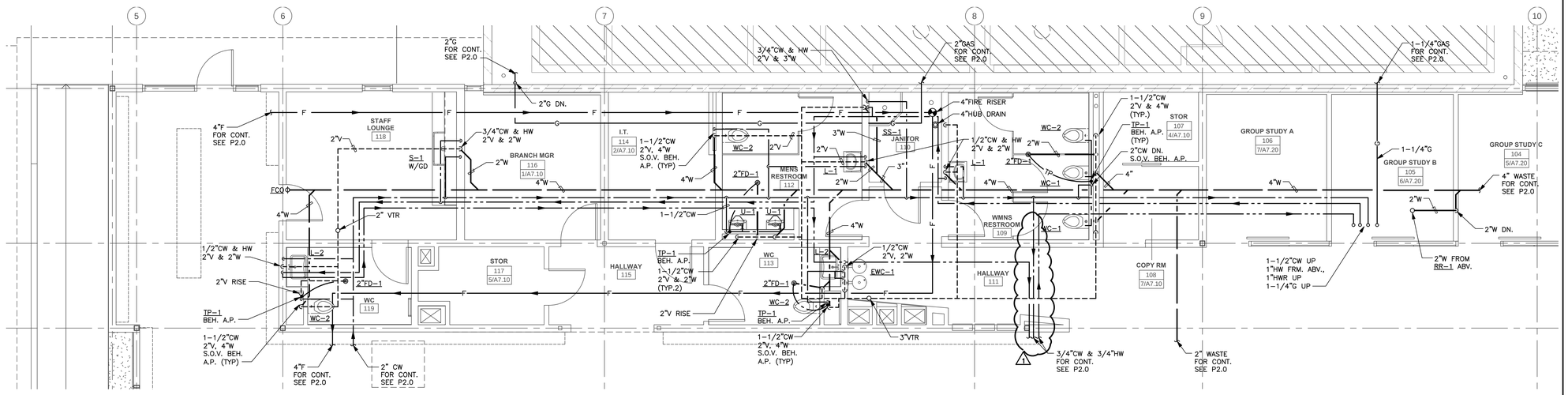
SHEET TITLE
PLUMBING PLAN

SHEET NO.
P2.0

SHEET OF

DWG. NO. -

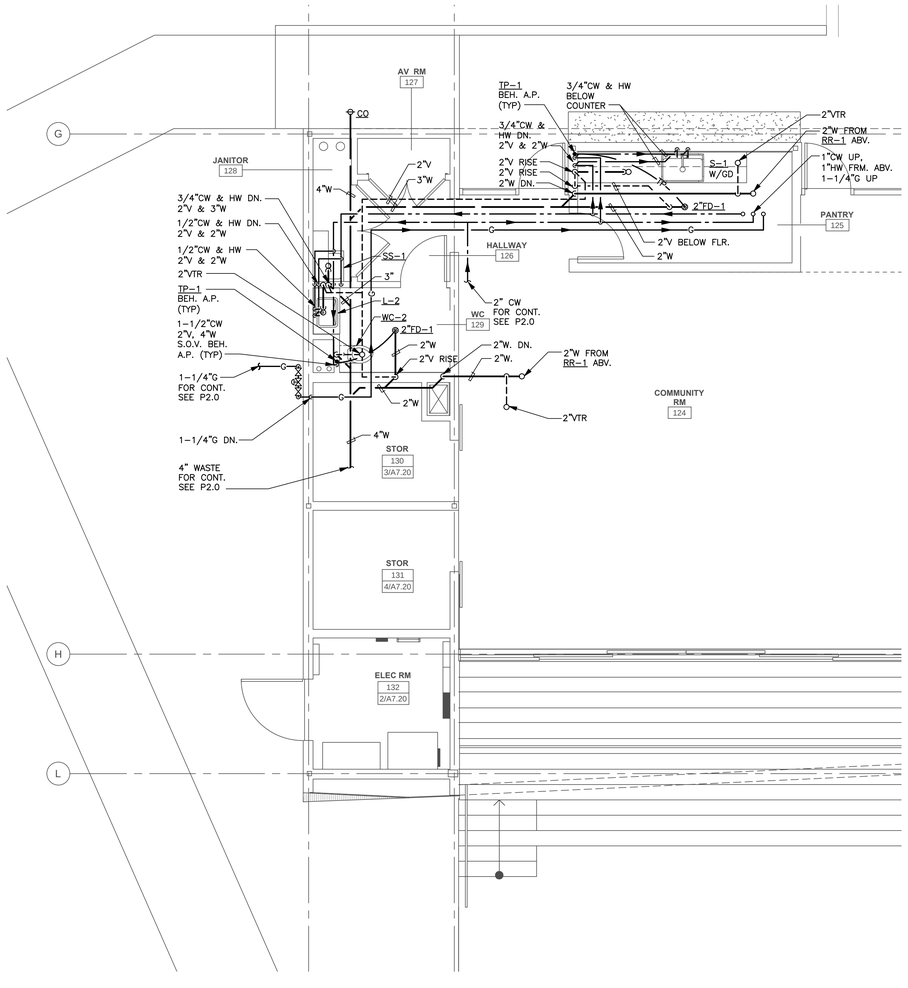
TITLE OF PROJECT:



1 PLUMBING PLAN

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

0 2' 4' 8'



2 PLUMBING PLAN

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

0 2' 4' 8'

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1	02/21/12		ADDENDUM 2

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DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
ENLARGED PLUMBING PLANS

SHEET NO.
P2.1

SHEET OF

DWG NO. -

TITLE OF PROJECT

NOTE:
THE STORM DRAIN CALCULATION IS BASED ON 3" RAINFALL PER C.P.C. 2010

TABLE 11-1 C.P.C. 2010
VERTICAL RAINWATER PIPING

PIPE	3" RAINFALL
3"	2,930 S.F.
4"	6,130 S.F.
6"	17,995 S.F.
8"	38,660 S.F.

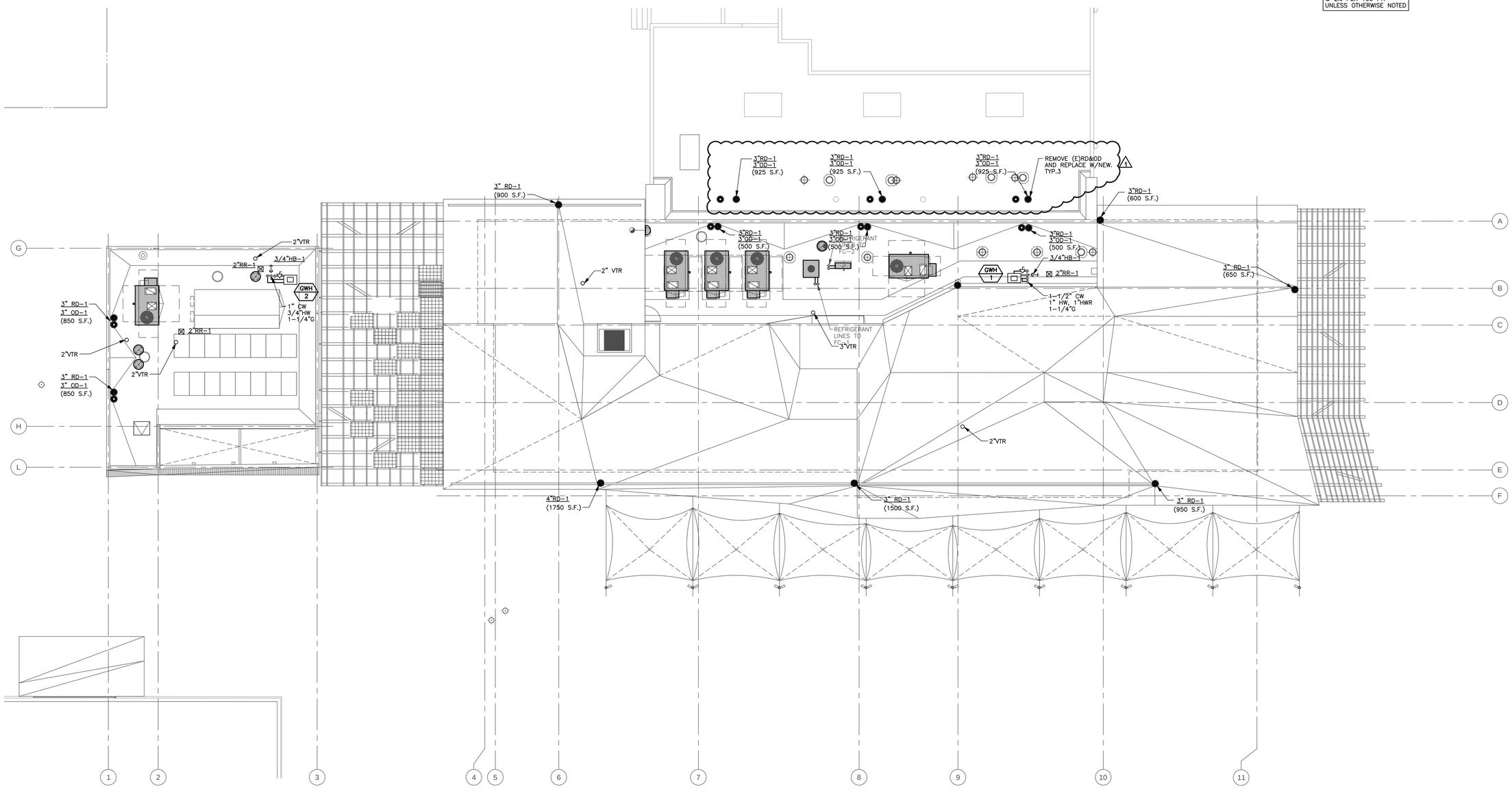
TABLE 11-2 C.P.C. 2010
HORIZONTAL RAINWATER PIPING
FLOW AT 1/8" FT. SLOPE

PIPE	3" RAINFALL
3"	1,096 S.F.
4"	2,506 S.F.
6"	7,133 S.F.
8"	15,330 S.F.
10"	27,600 S.F.
12"	44,400 S.F.

TABLE 11-2 C.P.C. 2010
HORIZONTAL RAINWATER PIPING
FLOW AT ¼" / FT. SLOPE

PIPE	3" RAINFALL
3"	1,546 S.F.
4"	3,533 S.F.
6"	10,066 S.F.
8"	21,733 S.F.
10"	38,950 S.F.
12"	62,600 S.F.

NOTE:
ALL PIPING SHALL SLOPE @ 2% PER 100 FT. UNLESS OTHERWISE NOTED



1 PLUMBING ROOF PLAN

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

0 4' 8' 16'

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SHEET TITLE
Plumbing ROOF PLAN

SHEET NO.
P2.2

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

ELECTRICAL NOTES

NOTE: IF CONFLICTS OCCUR BETWEEN DRAWING SPECIFICATION AND BOOK SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE USED.

1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. PROVIDE LABOR AND TOOLS NECESSARY AND INSTALL APPARATUS, MATERIALS, AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.
2. EXAMINE ALL CONTRACT DOCUMENTS AND VERIFY ALL DIMENSIONS AND CONDITIONS, SUCH AS CABINETS, BEAMS, FURRING, DOOR SWINGS, DUCTS, PIPES, CEILINGS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE GENERAL CONTRACTOR PRIOR TO COMMENCING ANY WORK. SWITCHES, CONTROLS, ACCESS DOORS ON ELECTRICAL EQUIPMENT, SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING.
3. REFER TO MECHANICAL DRAWING AND OTHER MANUFACTURERS INFORMATION WIRING DIAGRAMS FOR ITEMS AND DEVICES TO BE FURNISHED, INSTALLED AND/OR CONNECTED BY ELECTRICAL CONTRACTOR FOR A COMPLETE AND OPERABLE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AND OTHER EQUIPMENT. VERIFY EXACT LOCATION OF EQUIPMENT AND CONDUIT TERMINATION AT EQUIPMENT WITH MECHANICAL, PLUMBING AND MANUFACTURES SUB-CONTRACTOR. PROVIDE CONDUITS AND JUNCTION BOXES FOR CONTROL WIRING AND THERMOSTATS AND OTHER CONTROL DEVICES. THE CONTRACTOR SHALL EXTEND WIRING FROM LOCAL DISCONNECT SWITCHES TO ALL MOTORS.
4. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING, AND THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF THE ENGINEER FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL CONSTRUCTION DRAWINGS FOR DIMENSIONS.
5. THE ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NEC 2005, CEC 2007, LAEC 2008, T-24 REGULATION AND ORDINANCES, AND AUTHORITIES HAVING JURISDICTION.
6. ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING.
7. WHEN CONCRETE WORK IS INCLUDED IN THE SCOPE OF WORK, THE MATERIALS, PROPORTIONING, MIXING, CONVEYING, PLACING, CURING AND PROTECTION OF THE CONCRETE WORK SHALL BE IN ACCORDANCE TO "ACI" STANDARD 301.
8. UNLESS OTHERWISE SHOWN OR SPECIFIED, CONDUIT SHALL BE CONCEALED IN WALLS OR ABOVE FINISHED CEILING.
   A) CONCEALED CONDUIT SHALL BE RUN IN AS DIRECT A LINE AS POSSIBLE. BENDS SHALL BE OF LONG SWEEP TYPE.
   B) EXPOSED CONDUIT SHALL BE RUN PARALLEL TO, OR AT RIGHT ANGLES WITH THE LINES OF THE BUILDING. BEND SHALL BE FREE FROM DENTS OR FLATTENING. CONDUIT SHALL BE SUPPORTED AND SECURELY FASTENED.
   C) CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM BEFORE WIRE OR CONDUCTORS ARE PULLED IN.
   D) CONDUIT SHALL BE INSTALLED ENTIRELY FREE FROM OTHER PIPING, VALVES OR OTHER MECHANICAL EQUIPMENT, AND SHALL NOT BE INSTALLED WITHIN 6 INCHES OF HOT WATER OR STEAM PIPING OR HEATING FLUES.
   E) POCKETS OR TRAPS IN ALL CONDUIT RUNS WHERE MOISTURE MAY COLLECT SHALL BE AVOIDED. WHERE DIPS ARE UNAVOIDABLE, A PULL BOX SHALL BE LOCATED AT EACH LOW POINT IN ORDER TO PROVIDE A MEANS OF DRAINAGE.
   F) THE CONDUIT SYSTEM AND CONDUCTING WIRE ENCLOSURES SHALL BE SECURELY BONDED TOGETHER SO THAT FOR EVERY CONDUCTING COMPONENT IS PROVIDED WITH A LOW RESISTANCE PATH TO GROUND.
   G) DOUBLE LOCKNUTS SHALL BE USED FOR SECURING CONDUIT AT A BOX OR CABINET UNLESS A THREADED HUB IS PROVIDED AS PART OF THE BOX OR CABINET.
   H) RUNNING THREADS SHALL NOT BE USED ON CONDUIT FOR CONNECTION AT COUPLINGS. WHERE 2 LENGTHS OF CONDUIT MUST BE COUPLED TOGETHER, AND IT IS IMPOSSIBLE TO SCREW BOTH LENGTHS INTO AN ORDINARY COUPLING, THEN THE "ERICKSON" TYPE OF COUPLING MUST BE USED IN ORDER TO PROVIDE A RIGID JOINT THAT WILL BE BOTH MECHANICALLY AND ELECTRICALLY EFFECTIVE.
   I) PROTECT CONDUIT FROM DAMAGE AND THE ENTRANCE OF WATER AND FOREIGN MATTER DURING THE CONSTRUCTION PERIOD. WATERTIGHT STOPPERS OR CAPS SHALL BE INSTALLED IMMEDIATELY AFTER THE CONDUIT IS INSTALLED, REMOVED ONLY WHEN WIRE IS TO BE INSTALLED.
   J) THOROUGHLY CLEAN THE INSIDE OF CONDUITS TO ASCERTAIN FOREIGN MATERIALS ARE REMOVED BEFORE PULLING WIRE OR CABLE.
   K) COUPLING AND CONNECTORS USED ON ELECTRIC METALLIC TUBING SHALL BE SET SCREW TYPE, COMPRESSION FOR 2" AND LARGER.
   L) CONDUIT SHALL BE TERMINATED WITH SUITABLE BUSHINGS OR EQUIVALENT DEVICES WHICH SHALL PROTECT THE ENCLOSED WIRES FROM ABRASION AT THE ENDS. INSULATED BUSHINGS SHALL BE USED ON CONDUIT 1-1/4" SIZE AND LARGER.
   M) CONDUIT SIZES SHALL BE MINIMUM OF 3/4" AND IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE "CEC".
   N) IN EACH CONDUIT WITHOUT CONDUCTORS, PROVIDE ONE #12 TW PULL STRING WITH A TAG IDENTIFYING LOCATION OF OPPOSITE END.
   O) PROVIDE SLEEVES, NIPPLES, AND COUPLINGS REQUIRED FOR THE INSTALLATION OF CONDUIT. SLEEVES SHALL PROJECT 2" ABOVE FLOOR.
   P) FLEXIBLE CONDUIT SHALL BE PROVIDED TO CONNECT MOTORS ON SLIDING BASES, TO CONTROLS, AND TO VIBRATING EQUIPMENT.
9. PROVIDE HANGERS SUPPORT AND FASTENERS AS REQUIRED.
   A) INSTALLATION OF HANGERS AND SUPPORTS SHALL BE MADE TO THE STRUCTURAL STEEL, MASONRY AND POURED CONCRETE. HANGERS AND SUPPORTS SHALL NOT BE INSTALLED TO PRE-CAST CONCRETE, METAL DECKS, STEEL BRACING OR BRIDGING, PIPING OR OTHER CONDUIT.
   B) FASTENERS FOR SUPPORTS AND HANGERS SHALL BE MADE WITH BEAM CLAMPS, U-BOLTS, STUD WELDING OR OTHER APPROVED DEVICES. FASTENERS FOR SUPPORTS AND HANGERS TO CONCRETE SHALL BE MADE WITH ONE PIECE MALLEABLE IRON OR WROUGHT STEEL INSERTS WITH LONG RADIUS NECKS AND KEYHOLE SLOTS FOR ATTACHMENT IN FORMS, WITH SELF DRILLING TYPE EXPANSION SHIELDS WITH INSIDE THREADS AND EXPANSION PLUGS, OR WITH OTHER APPROVED TYPE DEVICES.
   C) INSTALLATION SHALL BE SUCH SO AS TO SUPPORT CONDUIT WITHOUT SAGGING AND SHALL BE CLEAR OF THE WORK OF OTHER TRADES. PROVISION FOR EXPANSION AND CONTRACTION SHALL BE MADE.
   D) SPACING OF SUPPORTS FOR EXPOSED HORIZONTAL CONDUIT RUNS SHALL BE AS FOLLOWS.

SIZE OF CONDUIT (INCHES)	NUMBER OF CONDUITS IN RUN	LOCATION	MAXIMUM SUPPORT SPACING (FEET)
3/4	1 OR 2	ON A FLAT CEILING/WALL	5
3/4	1 OR 2	WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION	7
3/4	3 OR MORE	ANY LOCATION	7
1 & LARGER	1 OR 2	ON A FLAT CEILING/WALL	6
1 & LARGER	1 OR 2	WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION	10
1 & LARGER	3 OR MORE	ANY LOCATION	10

   E) SPACING OF SUPPORTS FOR EXPOSED VERTICAL CONDUIT RUNS SHALL BE AS FOLLOWS.

SIZE OF CONDUIT (INCHES)	MAXIMUM SUPPORT SPACING (FEET)
3/4	7
1 AND 1-1/4	8
1-1/2 AND LARGER	10

   F) ELECTRICAL ENCLOSURES SHALL BE FURRED FROM OUTSIDE WALLS OF WET AREAS.
10. EXACT LOCATION OF EQUIPMENT AND OUTLETS SHALL BE VERIFIED IN FIELD. COORDINATE INSTALLATION OF ELECTRICAL SYSTEM WITH THAT OF ALL OTHER TRADES. PRIOR TO COMPLETION OF AFFECTED WORK, ELECTRICAL CONTRACTOR SHALL INSTRUCT THE OWNER ON THE USE AND MAINTENANCE OF THE ELECTRICAL SYSTEM. CONTRACTOR SHALL INCLUDE ALL THE ELECTRICAL EQUIPMENT, LIGHT LUMINAIRES TO BE RELOCATED WITHIN 20 FEET RADIUS BOTH HORIZONTAL AND VERTICAL FROM WHERE THE DEVICES ARE SHOWN ON THE DRAWINGS.
11. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR. FOR MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION, PROVIDE MAGNETIC OR MANUAL MOTOR STARTER WITH OVERLOAD HEATERS, SIZED TO COMPLY WITH MOTOR MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. VERIFY FUSE SIZE WITH MANUFACTURER RECOMMENDATIONS.
12. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN. EXCEPT WHERE NOTED TO BE LARGER, MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/4" DEEP. JUNCTION BOXES SHALL BE LABELED WITH RESPECTIVE CIRCUIT NUMBERS.
13. OUTLET BOXES SHALL BE FLUSH WITH THE FINISHED SURFACE OF WALLS AND CEILINGS OF COMBUSTIBLE MATERIALS.
14. OPENINGS IN BOXES, CONDUIT BODIES AND FITTINGS SHALL BE ADEQUATELY CLOSED.
15. SURFACE MOUNTED BOXES AND CABINETS MOUNTED IN WET AND DAMP LOCATIONS SHALL BE WEATHERPROOF AND SHALL HAVE AT LEAST 1/4 INCH AIR SPACE BETWEEN THE BOX AND MOUNTING SURFACE.
16. ENTRANCE TO ROOMS AND OTHER GUARDED LOCATIONS THAT CONTAIN LIVE PARTS SHALL BE MARKED WITH A CONSPICUOUS WARNING SIGN FORBIDDING UNQUALIFIED PERSONS TO ENTER.
17. CUT FLOORS, CEILINGS AND WALLS AS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. APPROVED PENETRATION THROUGH CONCRETE WALLS OR CEILINGS SHALL BE PROVIDED BY MEANS OF SLEEVES OR CORE DRILLING, CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, INCLUDING THE STRUCTURAL ENGINEER, REGARDING CONDUITS PENETRATING STRUCTURAL SLAB AND WALL, WORK SHALL BE PATCHED AND REPAIRED AS DIRECTED BY OWNER.
18. BEFORE ORDERING THE LIGHTING FIXTURES, VERIFY WITH THE ARCHITECT, OR AT THE JOB SITE, THE EXACT CEILING BEING FURNISHED, AND PROVIDE THE NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.
19. INSTALL LIGHTING FIXTURES SO AS TO CLEAR PIPING, DUCTS, AIR DIFFUSERS, GRILLES, ACCESS PANELS & OTHER DEVICES, PROVIDE HANGERS TO SUPPORT FIXTURES WITHOUT CAUSING SAGGING OR DISTORTION TO THE FIXTURES, INSTALL FIXTURES SYMMETRICAL TO CEILING TILES AND OR DIMENSIONS SHOWN, PROVIDE FIRE RATED ENCLOSURE OVER LIGHT FIXTURES RECESSED IN FIRE RATED WALLS OR CEILINGS. REPLACE ALL DAMAGED OR DEFECTIVE FIXTURES INCLUDING GLASSWARE, PLASTICS OR DIFFUSERS UP TO THE TIME OF FINAL INSPECTION AND ACCEPTANCE BY THE OWNER.
20. USE THHN/THWN COPPER WIRES FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR. SIZE PER CEC 250-122.
21. TELEPHONE WIRE AND CABLE INSTALLATION, SPLICING, TERMINATING, AND EQUIPMENT SHALL BE IN CONFORMITY WITH THE REQUIREMENTS AND SUBJECT TO APPROVAL OF THE DISTRICT'S COMMUNICATION PERSONAL.
   A) SIZE TELEPHONE CABINETS TO HOUSE CABLING, SPLICING, AND WIRING.
   B) PROVIDE TELEPHONE CONDUIT SYSTEM SEPARATE AND INDEPENDENT FROM OTHER SYSTEMS.
22. THE NON-CURRENT CARRYING METALLIC PARTS OF ALL ELECTRICAL EQUIPMENT AND ENCLOSURES, INCLUDING CONDUITS, SUPPORTS, CABINETS, MOTOR FRAMES, SWITCHBOARD ENCLOSURES, CONTROL PANELS AND ASSOCIATED EQUIPMENT, WHICH ARE INSTALLED OR CONNECTED UNDER THIS CONTRACT, SHALL BE PROPERLY GROUNDED BY CONNECTION TO THE GROUNDING SYSTEM, REGARDLESS OF WHETHER OR NOT THESE CONNECTIONS ARE SHOWN ON THE DRAWINGS.
   A) THE GROUNDING INSTALLATION SHALL HAVE PROVISIONS FOR BOTH SYSTEM AND EQUIPMENT GROUNDS AS DEFINED BY THE "CEC" THESE GROUNDING SYSTEMS ARE TO BE EFFECTIVELY INSULATED FROM EACH OTHER EXCEPT AT THE SERVICE CONNECTION.
   B) GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF "CEC" AND THE "NEC". LOCAL REQUIREMENTS OF THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL GOVERN IN ALL MATTERS OF INTERPRETATION.
   C) IF WATER SERVICE IS USED FOR GROUNDING POINT, IT SHALL BE ASCERTAINED THAT THE WATER PIPING IS ELECTRICALLY CONTINUOUS AT JOINTS WITHIN 5FT OF BUILDING AND IS OF CONDUCTING MATERIAL. WATER PIPING WITH SWEATED JOINTS IN ELECTRICAL PATH SHALL HAVE SUCH JOINTS BONDED.
   D) WHERE GROUND CABLES ENTER AND LEAVE FERROUS CONDUITS, THEY SHALL BE MECHANICALLY CONNECTED TO THE END OF THE RACEWAY. WHERE GROUND CABLE PASSES THROUGH FERROUS FLOORING OR FRAMING, CONNECTION SHALL BE MADE TO SUCH METAL.
23. THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSED BY HIS WORKMEN, AND SHALL REMOVE SUCH ACCUMULATIONS FROM THE BUILDING, SITE AND PROPERTY. JOB SITE SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
24. THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT AND MATERIAL INSTALLED UNDER THIS SECTION. SURFACES OF EXPOSED CONDUIT SHALL BE CLEANED OF CEMENT, PLASTER, DIRT, RUST, GREASE, AND OTHER FOREIGN MATTER, AND BE LEFT IN CONDITION SUITABLE TO THE CONTRACTOR AND ACCEPTABLE FOR PAINTING.
   A) EQUIPMENT FURNISHED WITHOUT SHOP APPLIED FINISH SHALL BE FIELD PAINTED.
   B) CONCEALED SURFACES OF METAL RACKS, FRAMES, AND BOXES SHALL BE PAINTED BEFORE MOUNTING.
   C) AFTER TESTS HAVE BEEN COMPLETED, CLEAN ALL LIGHTING FIXTURES AND EQUIPMENT WITH SOAP AND WATER, LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THE ELECTRICAL WORK.
25. WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING. CONTRACTOR SHALL TERMINATE ALL CABLES & WIRES WITH TERMINAL LUGS (SUPPLIED BY CONTRACTOR).
26. INSULATION SHALL BE TESTED BEFORE AND AFTER INSTALLATION, AND BEFORE ENERGIZING.
   A) RUBBER INSULATION SHALL BE TESTED FOR ACCEPTANCE BY APPLYING DIRECT CURRENT POTENTIAL NOT OVER 3 TIMES THE RATIO OF DIRECT CURRENT TO 60% OF EQUIVALENT "RMS" ALTERNATING CURRENT FACTORY TEST VOLTAGE FOR 5 MINUTES.
   B) VARNISHED CAMBRIC, PAPER, AND OTHER INSULATION SHALL BE TESTED IN THE MANNER DIRECTED BY AND UP TO THE LIMITS RECOMMENDED BY THE MANUFACTURER.
   C) INSULATION RESISTANCE SHALL BE TESTED BY MEGGER OF NOT LESS THAN 600 VOLTS OUTPUT FOR CIRCUITS 480 VOLTS AND LESS. ANY CIRCUIT SHOWING AN INSULATION RESISTANCE OF LESS THAN 1 MOHM SHALL BE INVESTIGATED AND THE WEEK POINT CORRECTED. CORRECT OR REPLACE ANY CIRCUIT DEFECTIVE OR GROUNDED AND MAKE WIRE-BY-WIRE TEST.
27. THE ENTIRE SYSTEM SHALL BE PLACED IN PROPER OPERATING CONDITION.
   A) OVERLOAD DEVICES SHALL BE ADJUSTED AND SET TO SUIT THE LOADS WHICH THEY CONTROL.
   B) LOADS ON ALL PARTS OF SYSTEMS SHALL BE BALANCED, INSOFAR AS IS PRACTICAL.
   C) ALL CHANGES SHALL BE MADE THAT ARE NECESSARY FOR ADJUSTING, SETTING AND BALANCING.
   D) PHASE ROTATION AT ALL BUSES, PANELS, SWITCHBOARD ETC., SHALL BE CHECKED TO SEE IF IT CONFORMS WITH RECOGNIZED STANDARDS.
   E) GROUND TESTS SHALL BE MADE WITH THE 3 ELECTRODE "AC" OR "DC" VOLTAGE DROP METHOD TO ESTABLISH INITIAL READINGS FOR RECORDS, AND TO ASCERTAIN THAT THEY MEET DESIGN AND CODE REQUIREMENTS.
   F) CONTROL CIRCUITS SHALL BE CHECKED OUT FOR PROPER FUNCTIONING AND FAIL-SAFE QUALITIES.
   G) RECEPTACLES SHALL BE CHECKED OUT FOR CORRECT AND CONSTANT PHASE POSITION, AND GROUNDED RECEPTACLES SHALL BE TESTED FOR LOCATION AND EFFECTIVENESS OF GROUNDED PIN.
   H) LIGHTING SWITCHING SHALL BE TESTED FOR CORRECT OPERATIONS ESPECIALLY WHERE 3 AND 4 WAY OPERATION IS DESIGNATED.
   I) CONTROL DEVICES SUCH AS LIMIT SWITCHES, LEVEL CONTROLS, PRESSURE CONTROLS, THERMOSTATS, SHALL BE SET FOR OPERATING CONDITIONS. COORDINATE WITH MECHANICAL CONTRACTOR.
   J) RUNNING LOADS OF MOTORS SHALL BE CHECKED AGAINST NAMEPLATE DATA. OVERLOADS SHALL BE REPORTED.
28. NO PIPING DUCT OR EQUIPMENT FOREIGN TO ELECTRICAL SHALL BE PERMITTED TO BE LOCATED WITH THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
29. ALL NEW ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.

FIRE ALARM

1. INSTALLATION OF THIS SYSTEM SHALL COMPLY WITH ALL APPLICABLE GOVERNING THIS TYPE OF SYSTEM AS ENFORCED BY THE LOCAL "AUTHORITY HAVING JURISDICTION". SYSTEM SHALL ABIDE BY ALL REQUIREMENTS IMPOSED BY LOCAL JURISDICTION HAVING AUTHORITY.
2. ALL MATERIALS AND METHODS USED IN THIS INSTALLATION SHALL CONFORM WITH THE APPLICABLE SECTIONS.
3. OF CALIFORNIA BUILDING, FIRE AND ELECTRICAL CODE. ARTICLE 760.
4. PRIOR TO REQUEST FOR FINAL APPROVAL/ACCEPTANCE, PROVIDE STATEMENT OF COMPLIANCE AS NOTED IN CFC 901.2.1 & NFPA 72 CHAP. 4. THEN, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ENFORCING AGENCY AND SHALL BE PASSED TO THEIR SATISFACTION.
5. INSTALLER SHALL PROVIDE OWNER "RECORD DRAWING" (AS-BUILTS) PER CFC 901.6.2; NFPA 72 CHAP. 4.9.10 UPON COMPLETION AND PRIOR TO ACCEPTANCE.
6. ALL DEVICES AND WIRING IN THIS SYSTEM ARE REQUIRED TO BE SUPERVISED FOR FAULT AND FAILURE. INSTALLER IS TO BE THOROUGHLY COMPETENT IN THE METHOD OF WIRING FOR SUPERVISION AS COVERED BY N.F.P.A ARTICLE 72. AS WELL AS CALIFORNIA ELECTRICAL CODE. ARTICLE 760. ALL WIRING MUST BE TESTED PRIOR TO CONNECTION TO CONTROL EQUIPMENT. TEST FOR: GROUND FAULT, OPEN CIRCUIT AND SHORT CIRCUIT.
7. ANY PENETRATION TO FIRE RATED ASSEMBLY BY WIRING FOR THIS SYSTEM, IT IS TO BE FIRE STOPPED USING U.L. APPROVED METHOD. IF WIRING IS TO PENETRATE RATED PARTITIONS AND DETAILS OF THROUGH PENETRATIONS IS NOT INCLUDED WITHIN THIS SET, CONTACT ENGINEERING DEPARTMENT FOR APPLICABLE INFORMATION.
8. DO NOT RUN WIRING EXPOSED SO AS TO BE DAMAGED BY OCCUPANTS. USE METALLIC RACEWAY WHEN INSTALLING BELOW 8'-0". WHEN USING METALLIC RACEWAYS FOR WIRING, ENSURE THAT THE WIRE FILL DOES NOT EXCEED THE LISTED CAPACITY AS LISTED IN C.E.C. CONDUIT NOT APPROVED AS PATH TO GROUND. USE #12 GA. TO WATER PIPE OR OTHER RECOGNIZED METHOD.
9. WHERE PERMITTED, "OPEN WIRE" MAY BE EMPLOYED. ENSURE THAT THE JACKETED CABLE IS LISTED FOR THE INTENDED APPLICATION. WHEN SUSPENDING JACKETED CABLE, USE CABLE FASTENERS AND SUSPENSION SYSTEMS AS REQUIRED BY CODE.
10. DEVICES USED IN THIS SYSTEM MAY HAVE STRICT REQUIREMENTS THAT GOVERN THEIR MOUNTING HEIGHTS AND LOCATION. INSTALLER IS TO BE THOROUGHLY COMPETENT IN THE INSTALLATION OF THE DEVICES THAT ARE COVERED BY THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AS THEY PERTAIN TO THE SYSTEM DESCRIBED ON THESE DRAWINGS.
11. NOTIFICATION APPLIANCES SHALL PROVIDE MINIMUM AUDIBILITY OF 15DB ABOVE AMBIENT LEVELS. CONTRACTOR TO FURNISH SOUND LEVEL METER AT THE TIME OF INSPECTION IF REQUIRED BY THE TESTING AGENCY. NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED IF MORE THAN TWO DEVICES ARE EITHER SEEN OR HEARD FROM ONE LOCATION.
12. CIRCUIT DISCONNECTION MEANS SHALL HAVE RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT (NFPA 72-2007, 4.4.1.4.2)
13. IT IS UNLAWFUL TO OCCUPY ANY PORTION OF BLDG/STRUCTURE UNTIL REQUIRED FIRE ALARM SYSTEM HAS BEEN TESTED AND APPROVED, PER CBC 901.5; 3312; CFC 901.5.1; 14
14. RECORDS OF ALL INITIAL INSPECTIONS, TESTS, MAINTENANCE REQUIRED BY REGULATION/STANDARD AND INSTALLING CONTRACTOR, TYPE OF COMPONENTS INSTALLED, MANUFACTURER OF COMPONENTS, LOCATIONS NUMBER PER FLOOR SHALL BE MAINTAINED ON PREMISES FOR A MINIMUM OF 3 YEARS. (CFC 901.6.2, NFPA 72 CHAP. 4.10)
15. REACCEPTANCE TESTING OF EXISTING SYSTEM SHALL BE PERFORMED IN ADHERANCE WITH NFPA 72 CHAPTER 10; CFC 901.4.1; 90720
16. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SCOPE OF WORK.

1

ELECTRICAL LEGEND

NOT ALL SYMBOLS, ABBREV., ETC. ARE NECESSARILY USED ON THIS PROJECT

POWER DEVICES

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE – WALL MOUNTED AT 18" AFF U.O.N. 20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION
	DUPLEX RECEPTACLE – CEILING MOUNTED, 20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION
	DOUBLE DUPLEX RECEPTACLE – WALL MOUNTED AT 18" AFF U.O.N. 20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION.
	DOUBLE DUPLEX RECEPTACLE – CEILING MOUNTED, 20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION.
	SPECIAL PURPOSE RECEPTACLE –WALL MOUNTED AT 18" AFF U.O.N. NEMA CONFIGURATION AS NOTED ON DRAWINGS.
L5-15R	SPECIAL PURPOSE RECEPTACLE –CEILING MOUNTED. NEMA CONFIGURATION AS NOTED ON DRAWINGS.
AB	RECEPTACLE TYPE SHOWN –WALL –ABOVE COUNTER BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.
"ON ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED
	DUPLEX RECEPTACLE – WALL – WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
WP	RECEPT. TYPE SHOWN W/ WEATHERPROOF COVER AND INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
+42"	RECEPT. TYPE SHOWN AT SPECIAL HEIGHT AS INDICATED ON DRAWINGS.
IG	ISOLATED GROUND RECEPTACLE RECEPTACLE SYMBOL TO MATCH DESCRIPTION ABOVE.
PDU	UNDER FLOOR POWER DISTRIBUTION UNIT. HAWORTH OR EQUAL.
	RAISED FLOOR OUTLET BOX, TYPE AS SHOWN ABOVE. OUTLET BOX TO BE COMPATIBLE WITH PDU & HAVE JUMPERED CONNECTIONS.

SWITCHING CONTROLS

SYMBOL	DESCRIPTION
S_a	SWITCH, FLUSH IN WALL, TOGGLE, SINGLE-POLE, SINGLE THROW +42"AFF U.O.N. (SUBSCRIPT DENOTES UNIT CONTROLLED)
S_2	SWITCH, FLUSH IN WALL, TOGGLE, TWO-POLE SINGLE THROW +42"AFF U.O.N.
S_3	SWITCH, FLUSH IN WALL, THREE WAY +42"AFF U.O.N. (CONNECT TO MATCHING SWITCH FOR 3-WAY USE)
S_4	SWITCH, FLUSH IN WALL, FOUR WAY +42"AFF U.O.N. (CONNECT TO MATCHING SWITCH FOR 3-4 WAY USE)
S_K	SWITCH, FLUSH IN WALL, KEY OPERATED +42"AFF U.O.N.
D	FLUORESCENT DIMMER SWITCH, FLUSH IN WALL, TOGGLE +42"AFF U.O.N., SINGLE-POLE, SINGLE-THROW. SUBSCRIPT DENOTES UNIT CONTROLLED.)
$\$^1$	LOW VOLTAGE MOMENTARY CONTACT SWITCH +42"AFF U.O.N. SUPERSCRIPT DENOTES RELAY NUMBER. SEE LIGHTING CONTROLS SCHEDULES FOR MORE DETAILS.
S_{WP}	WEATHERPROOF SWITCH
S_T	MOTOR-RATED THERMAL OVERLOAD SWITCH (POLES NOTED, HORSEPOWER RATED)
PC	PHOTOCELL
TC	TIME CLOCK
OS	WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL POWER UNITS
OS	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL POWER UNITS
LCP ?	LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V OR 277V CONTROL POWER AS REQUIRED OR AS INDICATED.
TX	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER. CONCEAL FROM VIEW.

DISTRIBUTION & EQUIPMENT

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED, SOLID= 120/280V, HATCHED= 277/480V, DASHED EQUIP. = FUTURE
	MOTOR CONTROL CENTER W/ CODE CLEARANCES SHOWN, DASHED EQUIP. = FUTURE
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CLEARANCES SHOWN
	CONNECTION TO MOTOR PROVIDED BY OTHERS
VFD	CONNECTION TO DIV. 15 FURNISHED VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT DIV. 16 TO INSTALL VFD EQUIPMENT
30A	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
F 30A	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
C 60AT	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	DIV. 16 CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	DIV. 16 CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT THAT IS PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED

FIRE ALARM

FIRE ALARM SYSTEM TO BE DONE DESIGN-BUILD BY CONTRACTOR.

1

WIRING

SYMBOL	DESCRIPTION
	WIRING CONCEALED IN CEILING OR WALL LINE WEIGHT TOP TO BOTTOM = NEW, EXITING TO REMAIN, FUTURE. CONTRACTOR MAY RUN WIRING IN WALLS, UNDERGROUND, OR IN RAISED FLOOR MARK AS-BUILTS ACCORDINGLY.
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
X X X X	EXISTING WIRING TO BE REMOVED
T	TELEPHONE SYSTEM CONDUIT
MV	MEDIUM VOLTAGE CONDUIT
G	BARE GROUNDING GRID OR CONDUCTORS, UON.
GC	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
L1A-1,3 HD1A	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES. CONTRACTOR MAY COMBINE HOMERUNS UP TO A MAXIMUM OF (6) CIRCUITS, FOLLOW CODE FOR DERATING & RESIZE WIRE & CONDUIT SIZES.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
J	JUNCTION BOXES, WALL, CONCELAED IN CEILING AND FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
PB	PULL BOX, MIN. SIZE PER NEC., UON.
	UNDERFLOOR RACEWAY
	FLEXIBLE CONDUIT CONNECTION
	POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN
	GROUND ROD CONNECTION
	GROUND ROD CONNECTION WITH TEST WELL BOX
	LIGHTNING SYSTEM AIR TERMINAL

BRANCH CIRCUIT WIRING LEGEND

- 3/4" CONDUIT WITH 2#12 WIRES AND 1#12 GND.
- 3/4" CONDUIT WITH 3#12 WIRES AND 1#12 GND.
- 3/4" CONDUIT WITH 4#12 WIRES AND 1#12 GND.
- 3/4" CONDUIT WITH 5#12 WIRES AND 1#12 GND.
- 3/4" CONDUIT WITH 6#12 WIRES AND 1#12 GND.
- #10 — NUMBER INDICATES GAUGE OF NEUTRAL WIRE. ALL OTHER WIRES #12 UON.
- C.O. — CONDUIT-ONLY WITH #12 NYLON PULL-WIRE (3/4" MINIMUM SIZE, UNLESS NOTED OTHERWISE)
- SHADED DOT INDICATES ISOLATED GROUND WIRE. SIZE TO BE VERIFIED WITH FEEDER SCHEDULE E0.2.

NOTE:

1. ALL WIRING TO BE COPPER THHN INSULATION & GROUND PER NEC 250-122(B) CONCEALED IN WALL OR CEILING.

GROUNDING SYSTEM

SYMBOL	DESCRIPTION
G	BARE GROUNDING GRID OR CONDUCTORS, UON.
GC	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
	GROUND GRID BOND POINT
	24" GROUND BAR
	60" GROUND BAR

REFERENCE SYMBOLS

SYMBOL	DESCRIPTION
12	SHEET NOTE REFERENCE
125.4	BRANCH CIRCUIT OR FEEDER NOMINAL AMPACITY & TYPE; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULES FOR WIRE AND CONDUIT SIZES & QTY.
1 / E4.1	REFER TO DETAIL NO. ON DRAWING INDICATED NOT ALL DETAIL REFERENCES ARE SHOWN. ALL DETAILS APPLY TO ALL APPLICABLE SITUATIONS, UON.
CH 1	MECHANICAL EQUIPMENT IDENTIFICATION TAG
EQUIP NAME	EQUIPMENT BY OTHERS IDENTIFICATION TAG

DIAGRAMS

SYMBOL	DESCRIPTION
	SWITCH
	BUS BAR
	PIPE GROUND
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	CURRENT TRANSFORMER
M	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED
DMU	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
	DELTA CONNECTION
	GROUNDED WYE CONNECTION
	CONNECTION TO GROUND
100AT 225AF	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
225AF 400AS	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
GF	GROUND FAULT TRIP UNIT
ST	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
K	KEY INTERLOCK
	GENERATOR

ELECTRICAL DESIGN CRITERIA

1. 2010 CALIFORNIA ELECTRICAL CODE (CEC) BASED ON 2008 NATIONAL ELECTRIC CODE WITH STATE AMENDMENTS.
2. 2010 TITLE 24, PART 6 CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR RESIDENTIAL AND NON-RESIDENTIAL BUILDINGS.
3. FIRE ALARM CODE VERSION USED: NFPA 2005
4. CALIFORNIA BUILDING CODE (CBC): 2010
5. AMERICAN WITH DISABILITIES ACT, (ADA)
6. LIGHTING CRITERIA USED, BASED ON RECOMMENDED LEVELS BY ILLUMINATING ENGINEERING SOCIETY (IES)

CORRIDORS	– 15 FC
ELEVATOR PIT	– 5 FC
ELEVATOR MACHINE	– 20 FC
OFFICES	– 55 FC
RESTROOMS	– 20 FC
PARKING LOT	– 2 FC
GARAGE	– 4 FC
WALKWAYS	– 4 FC

7. LIGHTING CONTROLS:
A. LOW VOLTAGE CONTROLS FOR SWEEP-OFF FUNCTIONS IN OFFICE AREAS.
B. OCCUPANCY SENSORS IN CONFERENCE RMS, STORAGE ROOMS, RESTROOMS, SMALL OFFICES.
C. PHOTOCELL ON & OFF- EXTERIOR LIGHTING

10. POWER DENSITY IN OFFICE AREAS: 6 WATTS/SQFT.

11. MAX. NUMBER OF WORKSTATIONS PER 20A CIRCUIT: 4

ABBREVIATIONS

(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
AB	ABOVE COUNTER BACKSPLASH
AC	ALTERNATING CURRENT
A, AMP	AMPERES
AF	AMPERE (RATED) FUSE OR CB FRAME
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED COUNTER
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
ALT	ALTERNATE
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
C	CONDUIT (CIRCULAR RACEWAY)
CB	CIRCUIT BREAKER
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
E,EMERG	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FF	FLUSH FLOOR MOUNTED
FLA	FULL LOAD AMPERES
FSD	FIRE/SMOKE DAMPER
FU	FUSE
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HZ	HERTZ (CYCLES PER SECOND)
IES	ILLUMINATING ENGINEERING SOCIETY
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KO	KNOCK OUT
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTG	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTR	MOTOR
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFGR'S ASSOC.
NL	NIGHT LIGHT (UNSWITCHED)
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NP	NAMEPLATE
OD	OUTSIDE DIAMETER
OS	OCCUPANCY SENSOR
P	POLE
PB	PUSHBUTTON
PH, ø	PHASE
PNL	PANEL
+,POS	POSITIVE
RNC	RIGID NON-METALLIC CONDUIT (PVC)
RS	RAPID START
RST	REMOTE STATION TRANSMITTER
SEC	SECONDARY
SN	SHEET NOTE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TYP	TYPICAL
UL	UNDERWRITERS LAB
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF,
XFMR	TRANSFORMER
Z	ZONE
", IN	INCHES
', FT	FEET
ø	PHASE
>	GREATER THAN
<	LESS THAN
≥	GREATER THAN OR EQUAL TO
1sc	SHORT CIRCUIT CURRENT

ELECTRICAL DRAWING LIST

E0.1	ELECTRICAL LEAD SHEET
E0.2	SINGLE LINE DIAGRAM
E0.3	TITLE 24/LIGHTING FIXTURE SCHEDULE
E0.4	TITLE 24/LIGHTING
E1.0	ELECTRICAL SITE PLAN
E2.0	ELECTRICAL POWER PLAN
E2.1	ELECTRICAL POWER ROOF PLAN
E3.0	LOWER LEVEL LIGHTING PLAN
E3.1	CEILING LEVEL LIGHTING PLAN
E3.2	LOWER LEVEL LIGHTING CONTROL ZONE PLAN
E3.3	CEILING LEVEL LIGHTING CONTROL ZONE PLAN
E5.1	ELECTRICAL PANEL SCHEDULES
E5.2	LIGHTING CONTROL DIAGRAM

1

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REVIEWED BY : DATE : ________ 20 __

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
ELECTRICAL LEAD SHEET

SHEET NO.
E0.1

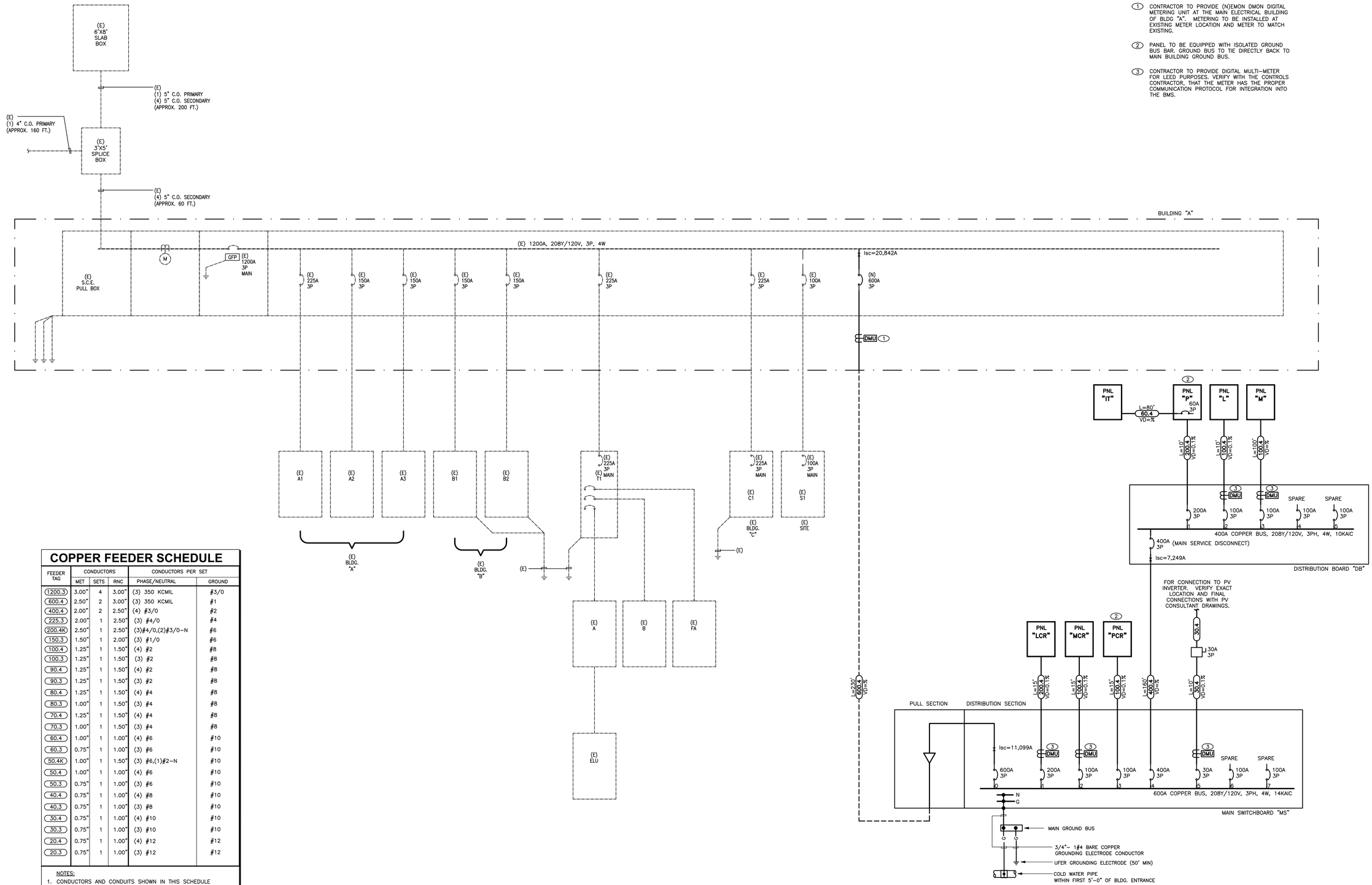
SHEET OF

DWG. NO.: -

TITLE OF PROJECT :

SHEET NOTES

1. CONTRACTOR TO PROVIDE (N)EMON DMON DIGITAL METERING UNIT AT THE MAIN ELECTRICAL BUILDING OF BLDG "A". METERING TO BE INSTALLED AT EXISTING METER LOCATION AND METER TO MATCH EXISTING.
2. PANEL TO BE EQUIPPED WITH ISOLATED GROUND BUS BAR. GROUND BUS TO TIE DIRECTLY BACK TO MAIN BUILDING GROUND BUS.
3. CONTRACTOR TO PROVIDE DIGITAL MULTI-METER FOR LEED PURPOSES. VERIFY WITH THE CONTROLS CONTRACTOR, THAT THE METER HAS THE PROPER COMMUNICATION PROTOCOL FOR INTEGRATION INTO THE BMS.



COPPER FEEDER SCHEDULE

FEEDER TAG	CONDUCTORS			CONDUCTORS PER SET	
	MET	SETS	RNC	PHASE/NEUTRAL	GROUND
1200.3	3.00"	4	3.00"	(3) 350 KCMIL	#3/0
600.4	2.50"	2	3.00"	(3) 350 KCMIL	#1
400.4	2.00"	2	2.50"	(4) #3/0	#2
225.3	2.00"	1	2.50"	(3) #4/0	#4
200.4K	2.50"	1	2.50"	(3)#4/0,(2)#3/0-N	#6
150.3	1.50"	1	2.00"	(3) #1/0	#6
100.4	1.25"	1	1.50"	(4) #2	#8
100.3	1.25"	1	1.50"	(3) #2	#8
90.4	1.25"	1	1.50"	(4) #2	#8
90.3	1.25"	1	1.50"	(3) #2	#8
80.4	1.25"	1	1.50"	(4) #4	#8
80.3	1.00"	1	1.50"	(3) #4	#8
70.4	1.25"	1	1.50"	(4) #4	#8
70.3	1.00"	1	1.50"	(3) #4	#8
60.4	1.00"	1	1.00"	(4) #6	#10
60.3	0.75"	1	1.00"	(3) #6	#10
50.4K	1.00"	1	1.50"	(3) #6,(1)#2-N	#10
50.4	1.00"	1	1.00"	(4) #6	#10
50.3	0.75"	1	1.00"	(3) #6	#10
40.4	0.75"	1	1.00"	(4) #8	#10
40.3	0.75"	1	1.00"	(3) #8	#10
30.4	0.75"	1	1.00"	(4) #10	#10
30.3	0.75"	1	1.00"	(3) #10	#10
20.4	0.75"	1	1.00"	(4) #12	#12
20.3	0.75"	1	1.00"	(3) #12	#12

NOTES:

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
2. THIS SCHEDULE SHALL BE USED ON ALL FEEDERS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. REFER TO EQUIPMENT SCHEDULES SHEET E00.05 FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC, WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER.
3. PROVIDE GROUND WIRE NOTED ABOVE IN ALL FEEDERS AND BRANCH CIRCUITS. WHERE MULTIPLE CONDUITS ARE INDICATED PROVIDE NOTED GROUND WIRE IN EACH CONDUIT.
4. NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75°C TERMINALS.
5. MET = EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. RNC = PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. CONDUIT SIZES NOTED ON SINGLE LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.

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REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

REVIEWED BY : DATE : 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
SINGLE LINE DIAGRAM

SHEET NO.
E0.2

SHEET OF
DWG. NO. -
TITLE OF PROJECT:

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (SMALL BLDG.)		Date: February 28, 2011
Project Address: VIRGINIA AVENUE PARK SANTA MONICA, CA 90404	Climate Zone	Building CFA Unconditioned Floor Area

Building Type: ☒ NON RESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL/MOTEL GUEST ☐ RELOCATABLE PUBLIC SCHOOLS ☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES ☐ SCHOOLS

Phase of Construction: ☒ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION

Method of Compliance: ☐ COMPLETE BUILDING ☒ AREA CATEGORY ☐ TAILORED

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

* I certify that this Certificate of Compliance documentation is accurate and complete.

Name :	JACOB CHAN	Signature :	
Company :	GLUMAC	Date :	February 28, 2011
Address :	617 WEST 7TH STREET, 5TH FLOOR	EA # : CEPE # :	
City/St/Zip :	LOS ANGELES, CA 90017-3830	Phone # :	(213) 239-8866

Principal Lighting Designer's Declaration Statement

* I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
* This Certificate of Compliance identifies the lighting features and performance specifications required foe compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
* The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforement agency for approval with this building permit application.

Name :	JACOB CHAN	Signature :	
Company :	GLUMAC	Phone # :	(213) 239-8866
Address :	617 WEST 7TH STREET, 5TH FLOOR	License # :	E13358
City/St/Zip :	LOS ANGELES, CA 90017-3830	Date :	February 28, 2011

LIGHTING MANDATORY MEASURES

Indicate location on building plans of Mandatory Measures Not

LIGHTING COMPLIANCE FORMS & WORKSHEE (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

☒ LTG-1C Pages 1 to 4	Certificate of Compliance. All pages required on plans for all submittals
☒ LTG-2C	Lighting Controls Credit Worksheet
☒ LTG-3C	Indoor Lighting Power Allowance
☐ LTG-4C Pages 1 to 4	Tailored Method Worksheet
☐ LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

CERTIFICATE OF COMPLIANCE (Part 2 of 4) (CONDITIONED) LTG-1C

Project Name: PICO BRANCH LIBRARY (SMALL BLDG.) — Date: February 28, 2011

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed) — Field Inspector ☐

Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed) — Field Inspector ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power Listed on this Lighting Schedule is for:

☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

☐ The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with 146(a)

☐ Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to 146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

LUMINAIRE (TYPE, LAMPS, BALLASTS)		INSTALLED WATTS							
A	B	C	D	E		F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Special Features	Watts per Luminaire (1)	How wattage was determined: CEC Default from NA8	According to 130 (d or e)	Number of Luminaires	Installed Watts (DxF)	Field Inspector (2) Pass	Fail
RZ1	RECESSED LINEAR 2 LAMP T5	☐	96	☒	☐	8	768	☐	☐
SF1	SURFACE MOUNTED T-5 FLOURESCENT	☐	96	☒	☐	1	96	☐	☐
RD1	RECESSED WARM LED 4"	☐	22	☒	☐	5	110	☐	☐
PF1	PENDANT MOUNTED SINGLE LAMP	☐	30	☒	☐	6	180	☐	☐
		☐		☒	☐			☐	☐
		☐		☒	☐			☐	☐
		☐		☒	☐			☐	☐
		☐		☒	☐			☐	☐
		☐		☒	☐			☐	☐
		☐		☒	☐			☐	☐
		☐		☒	☐			☐	☐
		☐		☐	☐			☐	☐
		☐		☐	☐			☐	☐
						INSTALLED WATTS PAGE TOTAL:	1154		

Building total number of pages: ☐

INSTALLED WATTS BUILDING TOTAL (Sum of all pages) Enter into LTG-1C Page 4 of 4: 1154

1 Wattage shall be determined according to Section 130(d and e). Wattage shall be rating of light fixture, not rating of bulb.

2 If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.) — Date: February 28, 2011

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft2, automatic daylighting controls for daylit areas > 2,500 ft2, d) shut-off controls, e) display lighting controls, f) tailored lighting controls - general lighting controlled separately from display, ornamental and diplay case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft2, in accordance with Section 131.

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST

Type / Description	Number of Units	Location in Building	Special Features	Field Inspector Pass	Fail
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of thejustification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspector's Notes or Discrepancies:

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (SMALL BLDG.) — Date: February 28, 2011

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE

Indoor Lighting Power Conditioned Spaces		Watts	Indoor Lighting Power Unconditioned Spaces		Watts
Installed Lighting (from Conditioned LTG-1C Page 2)		1154	Installed Lighting (from Unconditioned LTG-1C Page 2)		0
Lighting Control Credit (from Conditioned Spaces LTG-2C)	-	0	Lighting Control Credit (from Unconditioned Spaces LTG-2C)	-	0
Adjusted **Installed** Lighting Power	=	1,154	Adjusted **Installed** Lighting Power	=	0
Complies if **Installed <= Allowed**		YES	Complies if **Installed** <= Allowed		YES
Allowed Lighting Power Conditioned Spaces (from LTG-3C)		1,499	**Allowed** Lighting Power Unconditioned Spaces (from LTG-3C)		0

REQUIRED ACCEPTANCE TEST

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, **LTG-2A**. The designer is required to check the acceptance tests and list all controls devices serving the building or space shall be certied as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The **LTG-2A** form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the **LTG-2A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Equipment Requiring Testing	Luminaires Controlled: Description	Number of like Controls	Location	LTG-2A: Controls and Sensors and Automatic DayLighting Controls Acceptance
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐

INDOOR LIGHTING POWER ALLOWANCE LTG-3-C

Project Name: PICO BRANCH LIBRARY (SMALL BLDG.) — Date: February 28, 2011

ALLOWED LIGHTING POWER (Choose One Method)

A separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances listed on this page are only for: ☒ CONDITIONED Spaces ☐ UNCONDITIONED Spaces

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (From 146 Table 146-E)	WATTS PER SF	COMPLETE BLDG AREA	ALLOWED WATTS

AREA CATEGORY METHOD - CONDITIONED SPACES

A: AREA CATEGORY (From 146 Table 146-F)	B: WATTS PER SF	C: AREA (SF)	D: ALLOWED WATTS
CONFERENCE (1)	1.4	803	1,124
KITCHEN, FOOD PREPARATION	1.6	99	158
CORRIDORS, RESTROOMS, STAIRS, & SUPPORT AREAS	0.6	272	163
ELECTRICAL, MECHANICAL, TELEPHONE ROOMS (2)	0.7	76	53
Area Category Method Page TOTALS		1,250	1,499
Sum of Additional Allowed Watts from Area Category Method - Part B (from table below)			
Total Pages for Area Category Method ☐ Area Category Method Project TOTALS		1,250 SF Areas	1,499 WATTS

AREA CATEGORY METHOD - Part B Additional Wattage Allowance (from Table 146-F Footnotes)

A: Primary Function	B: sf	C: Additional Watts per sf Allowed	D: Wattage allowance (BxC)	E: Description(s) and Quantity of Special Luminaire (2) Types in each Primary Function Area	F: Total Design Watts	G: ALLOWED WATTS Smaller of
TOTALS - Enter into Area Category Method - Part A (table above)						WATTS

1. Additional watts available only when allowed according to the footnotes on bottom of Table 146-F for chandelier or sconce; art, craft, assembly or manufacturing specialized task work; precision commercial/industrial work; or lab specialized task work.
2. Special luminaires are light fixtures described in the Table 146-F Footnotes that are subject to an addional wattage allowance.

TAILORED METHOD

Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3 ☐

The indoor lighting power allowance using the Tailored Method of Compliance shall be determined using the LTG-4C set of forms. A separate set of LTG-4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces

MANDATORY MEASURES

Project Name: PICO BRANCH LIBRARY (SMALL BLDG.)

☒	§131(d)	**BUILDING SHUT-OFF** THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR.
☒	§131(c)	**OVERRIDE FOR BUILDING LIGHTING SHUT-OFF** THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQ. FT.
☒	§131(c)	**AUTOMATIC CONTROL DEVICES CERTIFIED:** ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED. ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
☒	§131(c)	**FLUORESCENT BALLAST AND LUMINARIES CERTIFIED:** ALL FLUORESCENT FIXTURES SUBJECT TO CERTIFICATION AND SPECIFIED FOR THE PROJECTS ARE CERTIFIED.
☒	§131(c)	**INDIVIDUAL ROOM/AREA CONTROLS:** EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.
☒	§131(c)	**UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:** ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
☒	§131(c)	**DAYLIT AREA CONTROL:** ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET AND CONTAIN WINDOWS AND SKYLIGHTS, THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LIGHTING POWER IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR
☐	§131(c)	THE EFFECTIVE USE OF DAYLIGHT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILIDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF THE YEAR IS INCLUDED ON PLANS.
☐	§131(e)	**DISPLAY LIGHTING:** DISPLAY LIGHTING SHALL BE SEPARATELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LOCATION	MANUFACTURER & CATOLOG #	NUMBER OF LAMPS & TYPE	TOTAL WATTS	VOLTAGE	REMARKS
BM1	POLE MOUNTED METAL HALIDE WALKWAY FIXTURE	EXTERIOR WALKWAYS	LITHONIA AS-1-150M-SR3-RPA-SCWA-DNA-L/LP POLE: RTA-20-5C-DNA	PHILIPS (1)MHC150 /U/MP/4K MASTERCOLOR OR = BY GE	180W	–	INSTALLATION TO MATCH EXISTING POST TOPS IN THELMA TERRY PARKING LOT IN ALL RESPECTS. ROTATE OPTICS TO MATCH DIRECTION AS SHOWN IN PLANS.
DT1	TABLE LAMPS PERMANENTLY MOUNTED ON TABLES	DESKS	LOUIS POULSEN AJ-T	PHILIPS (1)A-19/IF MEDIUM	60W	–	
DT2	SURFACE MOUNTED WARM WHITE 3000K LINEAR LED SINGLE RAIL TABLE LAMP PERMANENTLY MOUNTED ON TABLES	EASTERN READING AREAS	VODE 507-RR-L07-SA-30-A	WARM WHITE LEDS INCLUDED	3.4W	–	
DT2a	SURFACE MOUNTED WARM WHITE 3000K LINEAR LED SINGLE RAIL TABLE LAMP PERMANENTLY MOUNTED ON TABLES	READING DESKS	VODE 517-RR-L28-SA-30-A	WARM WHITE LEDS INCLUDED	16.8W	–	
FF1	SURFACE MOUNTED 28 WATT LINEAR T5 FLUORESCENT 4" BY 4' RECTANGULAR WET LABELED DOWNLIGHT WITH ACRYLIC LENS	CANOPIES	AXIS LIGHTING WBS-F-4-T5-1-FINISH-VOLTS-ERS-1-SC-TF	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	28W	–	
GD1	IN-GRADE RECESSED WARM WHITE 2900K LED UPLIGHT WITH 10.3" ROUND APERTURE, 20 DEGREE ADJUSTABILITY, AND MEDIUM BEAM DISTRIBUTION	EXTERIOR SIGNAGE	LUMASCAPE LS853LED-20H6-A-M-82-M-29-Q-VOLTS	WARM WHITE LEDS INCLUDED	20W	–	FIXTURE TO BE INSTALLED IN CONCRETE BLOCK OUT. PROVIDE WITH LS6052-K-SP PRE-INSTALLATION KIT
JD1	SPIKE MOUNTED WARM WHITE LD TREE UPLIGHT	LANDSCAPE	LUMIERE CAMBRIA 203 SERIES	WARM WHITE LEDS INCLUDED	ALLOW 30W	–	
JD2	SURFACE MOUNTED WET LOCATION WITH WARM WHITE LED UPLIGHTS TO HIGHLIGHT FABRIC CANOPIES	EXTERIOR FABRIC CANOPIES	LUMEPULSE LBM-VOLTS-30K-FL-BK-DIM	WARM WHITE LEDS INCLUDED	27W	–	DIMMABLE VIA 0-10VOLT CONTROL.
PC1	PENDANT MOUNTED 26 WATT COMPACT FLUORESCENT DECORATIVE CHANDELIER, WITH LUTRON ECOSYSTEM DIMMABLE BALLAST	SEATING AREAS	LIGHTOLIER PM SERIES PM32MX1SA-PG01-GL01-SK01	PHILIPS (1)PL-C 26W/830/ALTO OR EQUAL BY: GE. SYLVANIA	26W	–	DIMMABLE LUTRON ECOSYSTEM AND ON PHOTOCELL CONTROL.
PF1	PENDANT MOUNTED 28 WATT LINEAR T5 FLUORESCENT STRIPLIGHT WITH CHAIN MOUNTING AND WIRE GUARD	SUPPORT SPACES	LIGHTOLIER SV-4-S-1-28-UNV-PG-SV5GXW4	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE. SYLVANIA	28W	–	
RD1	RECESSED 1500 LUMEN 300K WARM WHITE LED DOWNLIGHT WITH 4: ROUND APERTURE	THROUGHOUT	LIGHTOLIER FRAM-IN KIT: C6L15-N-VOLTS	WARM WHITE LED INCLUDED	27W	–	
RD2	RECESSED 400 LUMEN 3000K WARM WHITE LED DOWNLIGHT WITH SMALL 2" ROUND APERTURE AND WET LABELED DOWNLIGHT WITH PAINTED WHITE TRIM	ENTRY CEILINGS	LIGHTOILER FRAME-IN KIT: C2L04DL-30K-17-R-1 REFLECTOR: CL2-DL-WH-P	WARM WHITE LED INCLUDED	10W	–	
RD3	RECESSED 1500 LUMEN 3000K WARM WHITE LED DOWNLIGHT WITH 4" ROUND APERTURE AND GLASS TRIM	THROUGHOUT	LIGHTOLIER DECORATIVE TRIM: D6A01 FRAME-IN KIT: C6L15-N-VOLTS	WARM WHITE LED INCLUDED	27W	–	
RF2	RECESSED 28 WATT LINEAR T5 FLUORESCENT 4" BY 4' DOWNLIGHT WITH ACRYLIC LENS	T AND BACK OF HOUSE AREAS	LIGHTOLIER CT3-F-P-A-S-4-U-VOLTS	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	28W	–	
RF3	RECESSED 28 WATT LINEAR T5 FLUORESCENT 4" BY 4' WET LABEL DOWNLIGHT WITH ACRYLIC LENS	EXTERIOR SOFFIT	AXIS LIGHTING WBR-F-4-T5-1-W-VOLTS-ERS-1-TF	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	28W	–	
RZ1	RECESSED (2) LAMP 28 WATT LINEAR T5 FLUORESCENT DOWNLIGHT WITH (2) ADJUSTABLE WARM WHITE LED ACCENT LIGHTS	THROUGHOUT	PINNACLE EDGE EX4	PHILIPS LINEAR FLUORESCENT: (2)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA LED DOWNLIGHT: WARM WHITE LEDS INCLUDED	ALLOW 96W	–	DIMMABLE VIA LUTRON H SERIES ECOSYSTEM FOR FLUORESCENT LIGHTING AND ECOSYSTEM DRIVER FOR LED DOWNLIGHTS. FLUORESCENT AND DOWNLIGHT FIXTURES ON SEPARATE CIRCUITS, AND INDIVIDUALLY CONTROLLED.
RZ1a	SAME AS RZ1 BUT WITH 3' LINEAR T5 FLUORESCENT DOWNLIGHT	WORKROOM	PINNACLE EDGE EX4	PHILIPS LINEAR FLUORESCENT: (2)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA LED DOWNLIGHT: WARM WHITE LEDS INCLUDED	ALLOW 82W	–	DIMMABLE VIA LUTRON H SERIES ECOSYSTEM FOR FLUORESCENT LIGHTING AND ECOSYSTEM DRIVER FOR LED DOWNLIGHTS. FLUORESCENT AND DOWNLIGHT FIXTURES ON SEPARATE CIRCUITS, AND INDIVIDUALLY CONTROLLED.
SD1	SURFACE MOUNTED WARM WHITE LINEAR LED STRIPLIGHT SUITABLE FOR EXTERIOR APPLICATIONS	BOOK DROP-OFF	TIVOLI LIGHTING LED STRIP: TBL-O-WWH-2-MD-12-PSU MOUNTING ACCESSORY: TPL-TUBE-C/F-8	WARM WHITE LED INCLUDED	1.15W /FT.	–	CONTRACTOR TO PROVIDE ALL NECESSARY WIRING ACCESSORIES AS NEEDED. CONTRACTOR TO VERIFY LENGTH ON SITE.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LOCATION	MANUFACTURER & CATOLOG #	NUMBER OF LAMPS & TYPE	TOTAL WATTS	VOLTAGE	REMARKS
SD2	SURFACE MOUNTED WARM WHITE LINEAR WITH FROSTED LENS SUITABLE FOR EXTERIOR APPLICATIONS	STAIRS	TIVOLI LIGHTING LED STRIP: TBL-O-WWH-2-MD-12-PSU MOUNTING ACCESSORY: TPL-TUBE-F-LENGTH	WARM WHITE LED INCLUDED	1.15W /FT.	–	CONTRACTOR TO PROVIDE ALL NECESSARY WIRING ACCESSORIES AS NEEDED. CONTRACTOR TO VERIFY LENGTH ON SITE.
SF1	SURFACE MOUNTED LOW PROFILE T5 FLUORESCENT STRIPLIGHT WITHIN VOCE WITH LUTRON ECOSYSTEM DIMMABLE BALLAST	SKYLIGHTS	LIGHTOILER SN-4-S-1-28-HPF-VOLTS- LUTRON H-SERIES ECOSYSTEM BALLAST	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	ALLOW 7W/FT.	–	DIMMABLE VIA LUTRONH-SERIES ECOSYSTEM AND ON PHOTOCELL CONTROL.
SF1a	SURFACE MOUNTED 3'-0" 21 WATT LINEAR T5 FLUORESCENT STRIPLIGHT WITHIN COVE WITH LUTRON ECOSYSTEM DIMMABLE BALLAST	GROUP STUDY ROOMS	LIGHTOILER SN-3-S-1-21-HPF-VOLTS- LUTRON H-SERIES ECOSYSTEM BALLAST	PHILIPS (1)F21T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	21W	–	CONTRACTOR TO VERIFY LENGTH OF FIXTURE ON SIGHT. DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND ON PHOTOCELL CONTROL.
SF2	SURFACE MOUNTED 28 WATT T5 FLUORESCENT UNDER CABINET STRIPLIGHT	STAFF ROOM	HE WILLIAMS 1SF-4-128T5S-A12125-EB1-VOLTS	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	ALLOW 7W/FT.	–	
WC1	WALL MOUNTED (2) LAMP 26 WATT COMPACT FLUORESCENT VANITY LIGHT	RESTROOM	LOUIS POULSEN AJE-17.7-2/26/CF-VOLTS-WHT-WALL	PHILIPS (2)PL-C 26W/830/ALTO OR EQUAL BY: GE. SYLVANIA	42W	–	
WD1	WALL MOUNTED WARM WHITE LED FLOODLIGHTS	COMMUNITY ROOM EXTERIOR WALL	LUMENPULSE LBM-VOLTS-30K-FL-BK-DIM	WARM WHITE LEDS INCLUDED	ALLOW 40W	–	DIMMABLE VIA 0-10VOLT CONTROL.
WD2	WALL RECESSED LED STEP LIGHT WITH 12.5" BY 2.75" RECTANGULAR APERTURE	LANDSCAPE STEPS	BEGA 2384 LED	WARM WHITE LED INCLUDED	10W	–	
WD3	WALL RECESSED 1000 LUMEN 3000K WARM WHITE LED ACCENT LIGHT WITH SPOT REFLECTOR WITH 8 1/2" BY 7 5/8" RECTANGULAR APERTURE WITH WHITE POWDER COAT 3/4" TRIM AND DOUBLE GIMBAL RING	COMMUNITY ROOM	ARCHITECTURAL LIGHTING WORKS RCST-1-XC8030-1000-H-INT-S-VOLTS -WH-SOL	WARM WHITE LEDS INCLUDED	15W	–	FIXTURE MOUNTED WITHIN THE VERTICAL WALL WITHIN THE COMMUNITY ROOM SKYLIGHT. PROVIDE WITH DIFFUSE SOLITE LENS. DIMMABLE VIA 0-10 VOLT CONTROL.
WF1	STACK MOUNTED 28 WATT LINEAR T5 FLUORESCENT 4' STACK LIGHT WITH LOW PROFILE ASYMMETRIC DISTRIBUTION WITH LUTRON ECOSYSTEM DIMMABLE BALLAST	STACKS	VODE LIGHTING WG-K1-4C-ST-24-IB -B-VOLTS-0-HE-A-1-2-LUTRON ECOSYSTEM BALLAST	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	28W	–	DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND PHOTOCELL CONTROL. FIXTURE TO BE CANTILEVERED OUT 12" INCHES FROM THE FACE OF THE STACKS.
WF1a	SA,E AS WF1 BIT WITH 3' FIXTURE LENGTH	STACKS	VODE LIGHTING WG-K1-3C-ST-24-IB-B-VOLTS-0-HE -A-1-2- LUTRON ECOSYSTEM BALLAST	PHILIPS (1)F21T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	21W	–	DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND PHOTOCELL CONTROL. FIXTURE TO BE CANTILEVERED OUT 12" INCHES FROM THE FACE OF THE STACKS.
WF2	STACK MOUNTED (2) 28 WATT LINEAR T5 FLUORESCENT 4' STACK LIGHT WITH LOW PROFILE ASYMMETRIC DISTRIBUTION WITH LUTRON ECOSYSTEM DIMMABLE BALLAST	STACKS	VODE LIGHTING WG-K2-4C-ST-24-IB-B-VOLTS-0-HE -A-1-2- LUTRON ECOSYSTEM BALLAST	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	54W	–	DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND PHOTOCELL CONTROL. FIXTURE TO BE CANTILEVERED OUT 12" INCHES FROM THE FACE OF THE STACKS.
WF2a	SAME AS WF2 BUT WITH 3' FIXTURE LENGTH	STACKS	VODE LIGHTING WG-K2-3C-ST-24-IB-B-VOLTS-0-HE3 -A-1-2- LUTRON ECOSYSTEM BALLAST	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	42W	–	DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND PHOTOCELL CONTROL. FIXTURE TO BE CANTILEVERED OUT 12" INCHES FROM THE FACE OF THE STACKS.
WF3	STACK MOUNTED 28 WATT LINEAR T6 FLUORESCENT 4' STACK LIGHT WITH LOW PROFILE ASYMMETRIC DISTRIBUTION MOUNTED ON CUSTOM 15" VERTICAL STRUT SYSTEM WITH LUTRON ECOSYSTEM DIMMABLE BALLAST	LOWER STACKS	VODE LIGHTING FIXTURE: WG-K2-4C-ST-24-IB-B-VOLTS-0-HE -A-1-2- LUTRON ECOSYSTEM BALLAST STRUT: TO BE DETERMINED	PHILIPS (1)F28T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	54W	–	DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND PHOTOCELL CONTROL. FIXTURE TO BE MOUNTED ON A 15" VERTICAL STRUT SYSTEM PROVIDED BY VODE. FIXTURE TO BE CANTILEVERED OUT 12" INCHES FROM THE FACE OF THE STACKS.
WF3a	SAME AS WF3 BUT WITH 3' FIXTURE LENGTH	LOWER STACKS	VODE LIGHTING FIXTURE: WG-K2-3C-ST-24-IB-B-VOLTS-0-HE3 -A-1-2- LUTRON ECOSYSTEM BALLAST STRUT: TO BE DETERMINED	PHILIPS (2)F21T5/ADV830 /ALTO OR EQUAL BY: GE, SYLVANIA	42W	–	DIMMABLE VIA LUTRON H-SERIES ECOSYSTEM AND PHOTOCELL CONTROL. FIXTURE TO BE MOUNTED ON A 15" VERTICAL STRUT SYSTEM PROVIDED BY VODE. FIXTURE TO BE CANTILEVERED OUT 12" INCHES FROM THE FACE OF THE STACKS.
CDS1	WIRELESS DAYLIGHT SENSOR LOCATED AT CEILING PLANE AS PART OF CWS1	THROUGHOUT	LUTRON LRFX-DCRB	NA	NA	–	ALLOW FOR (8) SENSORS.
CWS1	WALL RECESSED ECOSYSTEM GRAFIK EYE ROOM CONTROLLER AND DIMMER WITH 4 SCENE PRESET AND INTEGRAL ASTRONOMICAL TIME CLOCK CONNECTED TO DAYLIGHT SENSORS.	THROUGHOUT	LUTRON GRAFIK EYE QS WITH ECOSYSTEM	NA	NA	–	QUANTITY TO BE DETERMINED BASED OF TOTAL NUMBER OF ZONES. ALLOW FOR (2) 16 ZONE GRAFIK EYES.
CWS2	WALL RECESSED 2-BUTTON WITH RAISE/LOWER SWITCH	THROUGHOUT	LUTRON 2BLR	NA	NA	–	ALLOW FOR (2) SWITCHES.

1 (revision triangle)

FIXTURE SCHEDULE NOTES

1. CONTRACTOR TO VERIFY FIXTURE TYPES, LAMPING, AND ADDITIONAL FIXTURE INFORMATION WITH LIGHTING DESIGNER SPECIFICATIONS.

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ARCHITECT'S PROJECT NO. **1001**

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APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : ______ 20__

REVIEWED BY : DATE : ______ 20__

REVIEWED BY : DATE : ______ 20__

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE: **ADDENDUM 2**

DATE: 02/21/2012

DRAWING NO. **6693**

SHEET TITLE: **TITLE24/LIGHTING FIXTURE SCHEDULE**

SHEET NO. **E0.3**

SHEET ___ OF ___ — DWG. NO. : - — TITLE OF PROJECT :

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.)	Date: February 28, 2011
Project Address: VIRGINIA AVENUE PARK, SANTA MONICA, CA 90404	Climate Zone
	Building GFA
	Unconditioned Floor Area

Building Type: ☐ NON RESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL/MOTEL GUEST ROOMS ☐ RESIDENTIAL HOTEL/MOTEL SCHOOLS ☐ UNCONDITIONED SPACES ☐ UNCONDITIONED SPACES ☐ SCHOOLS

Phase of Construction: ☒ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION

Method of Compliance: ☐ COMPLETE BUILDING ☒ AREA CATEGORY ☐ FAILURES

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

* I certify that this Certificate of Compliance documentation is accurate and complete.

Name:	JACOB CHAN	Signature:	
Company:	GLUMAC	Date:	February 28, 2011
Address:	617 WEST 7TH STREET, 5TH FLOOR	DA #: / CEPE #:	
City/State/Zip:	LOS ANGELES, CA 90017-3830	Phone #:	(213) 239-8866

Principal Lighting Designer's Declaration Statement

* I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
* This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
* The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name:	JACOB CHAN	Signature:	
Company:	GLUMAC	Phone #:	(213) 239-8866
Address:	617 WEST 7TH STREET, 5TH FLOOR	License #:	E13358
City/State/Zip:	LOS ANGELES, CA 90017-3830	Date:	February 28, 2011

LIGHTING MANDATORY MEASURES

Indicate location on building plans of Mandatory Measures Not.

LIGHTING COMPLIANCE FORMS & WORKSHEET (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

☐ LTG-1C Pages 1 to 4	Certificate of Compliance. All pages required on plans for all submittals
☒ LTG-2C	Lighting Controls Credit Worksheet
☒ LTG-3C	Indoor Lighting Power Allowance
☐ LTG-4C Pages 1 to 4	Tailored Method Worksheet
☐ LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

CERTIFICATE OF COMPLIANCE (Part 2 of 4) (CONDITIONED) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.)	Date: February 28, 2011

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed)	Field Inspector ☐
Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed)	Field Inspector ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power Listed on this Lighting Schedule is for:

☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

☐ The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with 146(a)

☐ Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to 146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

LUMINAIRE (TYPE, LAMPS, BALLASTS)				INSTALLED WATTS					
A	B	C	D	E		F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Special Features	Watts per Luminaire (1)	How wattage was determined: CEC Default from NAB	According to 130 (d or e)	Number of Luminaires	Installed Watts (D x F)	Field Inspector (2): Pass	Fail
DT1	TABLE LAMPS PERMANENT	☐	60	☒	☐	5	300	☐	☐
DT2	SURFACE MOUNTED LINEAR LED	☐	3.4	☒	☐	5	17	☐	☐
DT2A	RECESSED WARM LED 4"	☐	16.8	☒	☐	9	151.2	☐	☐
SF1	SURFACE MOUNTED LINEAR T5	☐		☒	☐	3		☐	☐
PC1	COMPACT FLOU CHANDELIER	☐	26	☒	☐	12	312	☐	☐
RD1	WARM WHITE LED DOWNLIGHT	☐	27	☒	☐	27	729	☐	☐
RD3	WARM WHITE LED DOWNLIGHT	☐	27	☒	☐	13	351	☐	☐
RF2	RECESSED T8 4'X4'	☐	28	☒	☐	5	140	☐	☐
RZ1	RECESSED LINEAR T-5 W/ ADJUSTABLE LED	☐	96	☒	☐	38	3648	☐	☐
RZ1A	RECESSED LINEAR T-5 W/ ADJUSTABLE LED	☐	82	☒	☐	5	410	☐	☐
SF1A	SURFACE MOUNTED LINEAR T5	☐	21	☒	☐	4	84	☐	☐
WC1	WALL MOUNTED COMP. FLOURESCENT	☐	42	☐	☐	7	294	☐	☐
WF1	STACK MOUNTED LINEAR T5	☐	28	☐	☐	11	308	☐	☐

INSTALLED WATTS PAGE TOTAL: 6744.2

Building total number of pages: ____

INSTALLED WATTS BUILDING TOTAL (Sum of all pages): 9231.2

Enter into LTG-1C Page 4 of 4

1 Wattage shall be determined according to Section 130(d and e). Wattage shall be rating of light fixture, not rating of bulb.

2 If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.)	Date: February 28, 2011

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE

Indoor Lighting Power Conditioned Spaces		Watts	Indoor Lighting Power Unconditioned Spaces		Watts
Installed Lighting (from Conditioned LTG-1C Page 2)		9231.2	Installed Lighting (from Unconditioned LTG-1C Page 2)		0
Lighting Control Credit (from Conditioned Spaces LTG-2C)		2,398	Lighting Control Credit (from Unconditioned Spaces LTG-2C)		0
Adjusted Installed Lighting Power	=	6,833	Adjusted Installed Lighting Power	=	0
Complies if Installed <= Allowed		YES	Complies if Installed <= Allowed		YES
Allowed Lighting Power Conditioned Spaces (from LTG-3C)		8,305	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)		0

REQUIRED ACCEPTANCE TEST

Designer:
This forms is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system. **LTG-2A**. The designer is required to check the acceptance tests and list all controls devices serving the building or space shall be certied as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

Enforcement Agency:
Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The **LTG-2A** form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed form before the building can receive final occupancy. A copy of the **LTG-2A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Equipment Requiring Testing	Luminaires Controled: Description	Number of the Controls	Location	LTG-2A: Controls and Sensors and Automatic Day Lighting Controls Acceptance
				☐
				☐
				☐
				☐
				☐
				☐
				☐
				☐

INDOOR LIGHTING POWER ALLOWANCE LTG-3-C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.)	Date: February 28, 2011

ALLOWED LIGHTING POWER (Choose One Method)

A separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances listed on this page are only for: ☒ CONDITIONED Spaces ☐ UNCONDITIONED Spaces

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (From 146 Table 146-E)	WATTS PER SF	COMPLETE BLDG AREA	ALLOWED WATTS

AREA CATEGORY METHOD - CONDITIONED SPACES

A: AREA CATEGORY (From 146 Table 146-F)	B: WATTS PER SF	C: AREA (SF)	D: ALLOWED WATTS
		48	
Area Category Method Page TOTALS		48	
Sum of Additional Allowed Watts from Area Category Method - Part B (from table below)			
Total Pages for Area Category Method ____ Area Category Method Project TOTALS		6,772 SF Areas	8,305 WATTS

AREA CATEGORY METHOD - Part B Additional Wattage Allowance (from Table 146-F Footnotes)

A: Primary Function	B: sf	C: Additional Watts per sf Allowed	D: Wattage allowance (B x C)	E: Description(s) and Quantity of Special Luminaire (2) Types in each Primary Function Area	F: Total Design Watts	G: ALLOWED WATTS Smaller of
TOTALS - Enter into Area Category Method - Part A (table above)						WATTS

1. Additional watts available only when allowed according to the footnotes on bottom of Table 146-F for chandelier or sconce; art, craft, assembly or manufacturing specialized task work; precision commercial/industrial work; or lab specialized task work.
2. Special luminaires are light fixtures described in the Table 146-F Footnotes that are subject to an additional wattage allowance.

TAILORED METHOD

Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3: ____

The indoor lighting power allowance using the Tailored Method of Compliance shall be determined using the LTG-4C set of forms. A separate set of LTG-4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces

MANDATORY MEASURES

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.)

☐ §131(d) **BUILDING SHUT-OFF**
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR.

☐ §131(c) **OVERRIDE FOR BUILDING LIGHTING SHUT-OFF**
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQ. FT.

☐ §131(c) **AUTOMATIC CONTROL DEVICES CERTIFIED:**
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED.
ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

☐ §131(c) **FLUORESCENT BALLAST AND LUMINARIES CERTIFIED:**
ALL FLUORESCENT FIXTURES SUBJECT TO CERTIFICATION AND SPECIFIED FOR THE PROJECTS ARE CERTIFIED.

☐ §131(c) **INDIVIDUAL ROOM/AREA CONTROLS:**
EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.

☐ §131(c) **UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:**
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.

☐ §131(c) **DAYLIT AREA CONTROL:**
ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET AND CONTAIN WINDOWS AND SKYLIGHTS, THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LIGHTING POWER IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH, OR THE EFFECTIVE USE OF DAYLIGHT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILIDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF THE YEAR IS INCLUDED ON PLANS.

☐ §131(e) **DISPLAY LIGHTING:**
DISPLAY LIGHTING SHALL BE SEPARATELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.

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APPROVED BY: Miriam Mulder, Architecture Services Manager ____ DATE: ____ 20__

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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REVIEWED BY: ____ DATE: ____ 20__

REVIEWED BY: ____ DATE: ____ 20__

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1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
TITLE 24 LIGHTING

SHEET NO.
E0.4

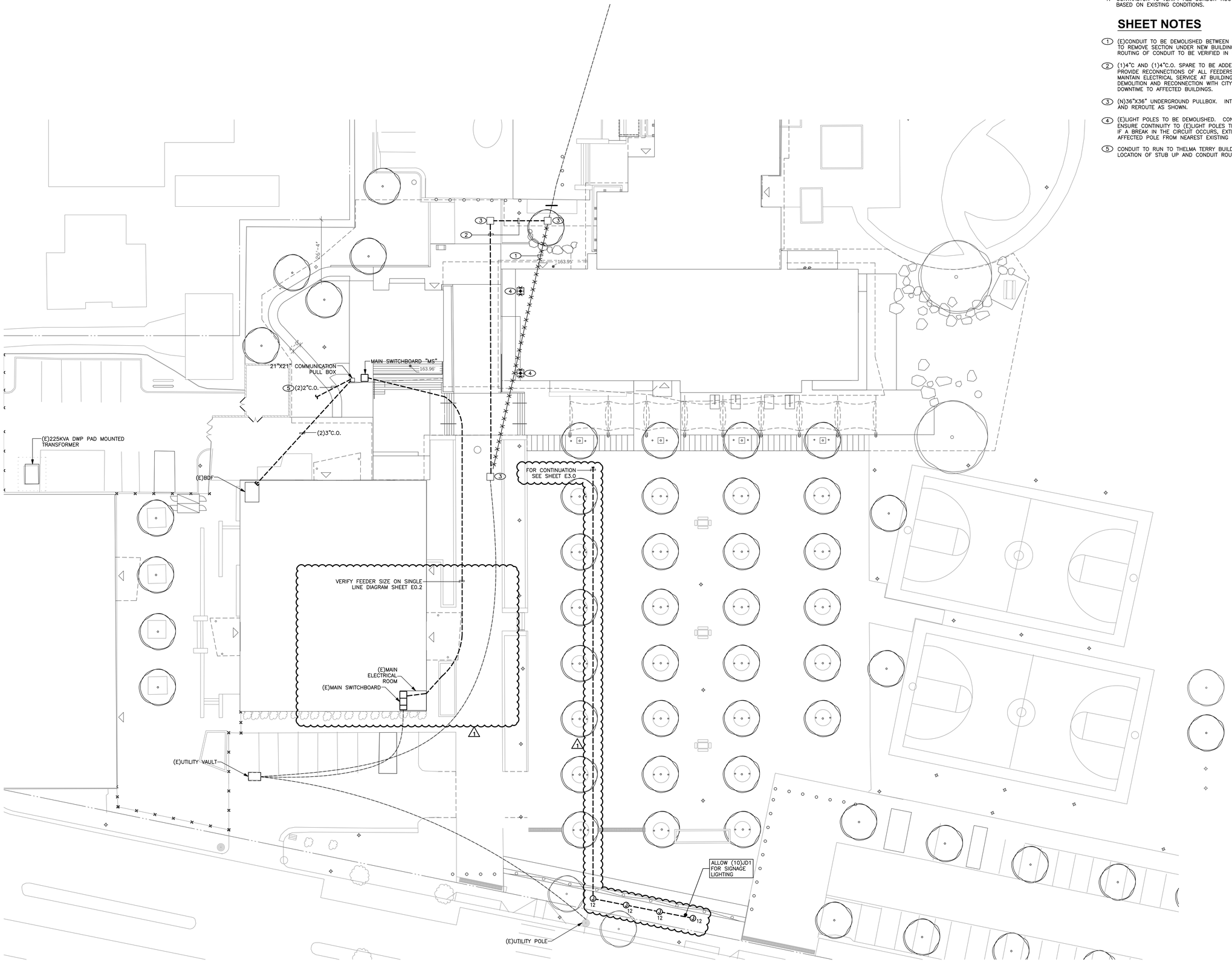
SHEET OF

DWG. NO.:

TITLE OF PROJECT:

SHEET OF

DWG. NO. -



1 **ELECTRICAL SITE PLAN**
SCALE: 1/16"=1'-0"

0 8' 16' 32'

N

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL CONDUIT ROUTING IN FIELD BASED ON EXISTING CONDITIONS.

SHEET NOTES

1. (E)CONDUIT TO BE DEMOLISHED BETWEEN NEW PULL BOXES TO REMOVE SECTION UNDER NEW BUILDING FOOTING. EXACT ROUTING OF CONDUIT TO BE VERIFIED IN FIELD.
2. (1)4"C AND (1)4"C.O. SPARE TO BE ADDED AS SHOWN. PROVIDE RECONNECTIONS OF ALL FEEDERS AT (E)PULLBOX TO MAINTAIN ELECTRICAL SERVICE AT BUILDING. COORDINATE DEMOLITION AND RECONNECTION WITH CITY TO MINIMIZE DOWNTIME TO AFFECTED BUILDINGS.
3. (N)36"X36" UNDERGROUND PULLBOX. INTERCEPT (E)CONDUIT AND REROUTE AS SHOWN.
4. (E)LIGHT POLES TO BE DEMOLISHED. CONTRACTOR TO ENSURE CONTINUITY TO (E)LIGHT POLES THAT ARE REMAINING. IF A BREAK IN THE CIRCUIT OCCURS, EXTEND CIRCUIT TO AFFECTED POLE FROM NEAREST EXISTING POLE TO REMAIN.
5. CONDUIT TO RUN TO THELMA TERRY BUILDING. VERIFY EXACT LOCATION OF STUB UP AND CONDUIT ROUTING WITH OWNER.

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APPROVED BY : DATE : _____ 20__
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20__

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NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

ADDENDUM 2

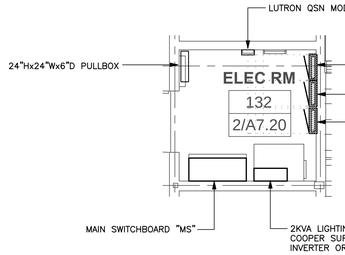
DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
ELECTRICAL SITE PLAN

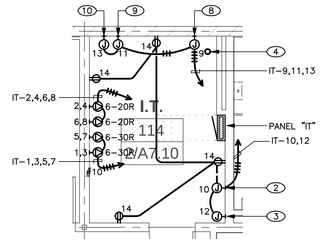
SHEET NO.
E1.0

TITLE OF PROJECT:



2 ENLARGED ELECTRICAL ROOM

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



3 ENLARGED IT ROOM

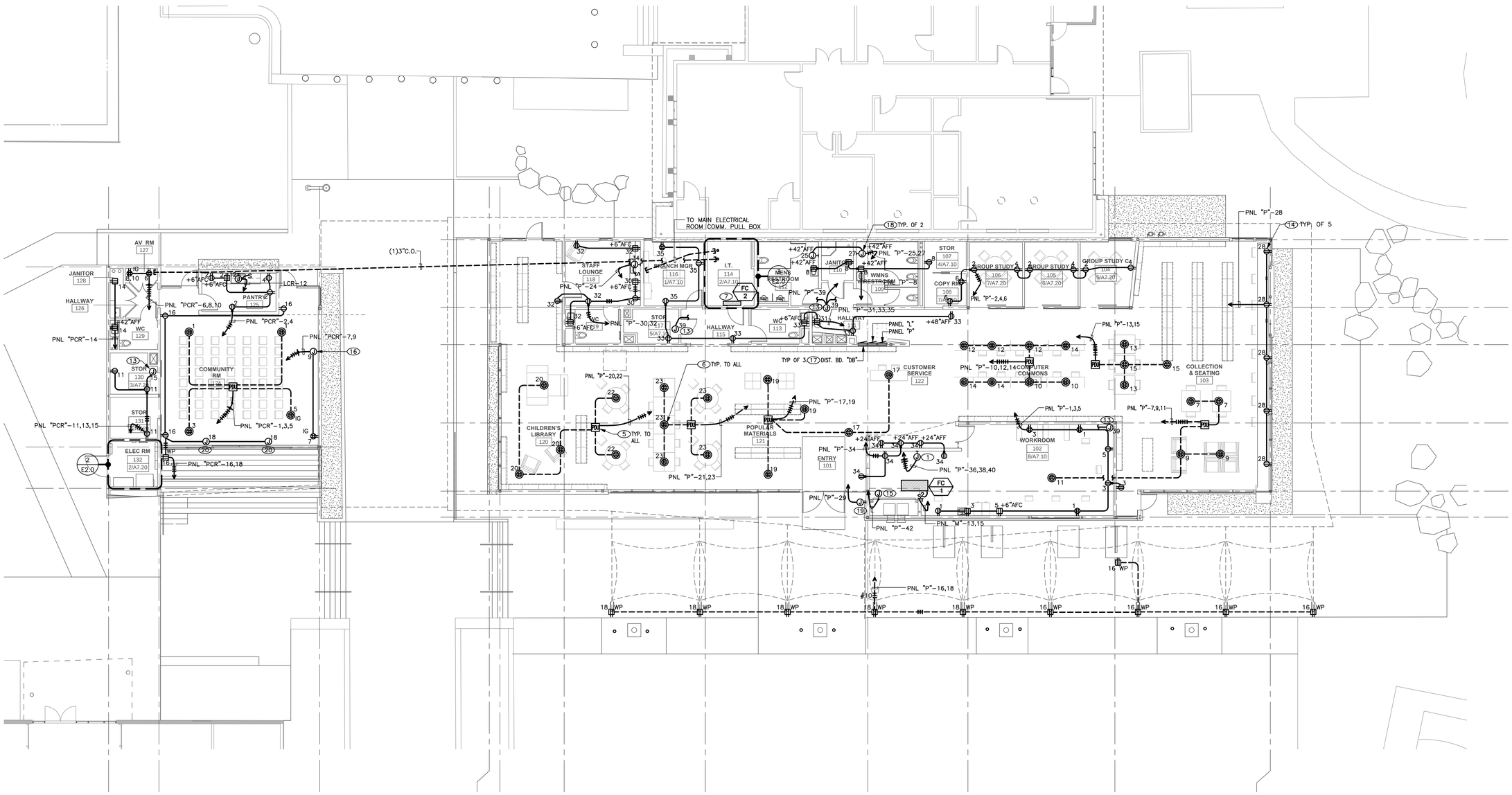
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE 120V CONNECTION TO ACTUATORS. LOW VOLTAGE TRANSFORMER TO BE PROVIDED BY DIV 23 CONTROLS.
2. COORDINATE WITH MECHANICAL EXACT LOCATION OF EQUIPMENT. PRE-INSTALLATION POWER & TERMINATION REQUIREMENTS.
3. THE DESIGN OF THE UNDERFLOOR AIR DISTRIBUTION SYSTEM IS BASED ON A SEALED, AIRTIGHT UNDERFLOOR PLENUM. ALL CONSTRUCTION JOINTS AT PLENUM BOUNDARIES AND PLENUM DIVIDING PARTITIONS SHALL BE SEALED AIRTIGHT. ALL PENETRATIONS FOR PIPES, CONDUIT AND OTHER SERVICES SHALL BE SEALED AIRTIGHT. PLENUMS SHALL BE TESTED FOR LEAKAGE PER THE COMMISSIONING SPECIFICATIONS. PLENUMS THAT DO NOT MEET THE LEAKAGE CRITERIA PER THE SPECIFICATIONS SHALL BE RESEALED AND RETESTED UNTIL THEY PASS. REFER TO THE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS AND ADDITIONAL INFORMATION.
4. FOR ADDITIONAL INFORMATION ON LOW VOLTAGE SYSTEMS (IT & AV) SEE LOW VOLTAGE CONSULTANT DRAWINGS.
5. ALL OUTDOOR EQUIPMENT TO BE IN A NEMA 3R WEATHERPROOF ENCLOSURE.
6. CONTRACTOR TO SEE AV DRAWINGS FOR ADDITIONAL CONDUIT REQUIREMENTS.

SHEET NOTES

1. J-BOX FOR CONNECTION TO AUTOMATIC BOOK SORTING MACHINE. VERIFY FINAL CONNECTIONS AND WIRING REQUIREMENTS WITH MANUFACTURER.
2. J-BOX FOR CONNECTION TO FACP. VERIFY EXACT LOCATION WITH IT DRAWINGS.
3. J-BOX FOR CONNECTION TO SECURITY PANEL. VERIFY EXACT LOCATION WITH IT DRAWINGS.
4. 2"C.O. TO STUB UP TO CEILING SPACE ABOVE IDF ROOM. PROVIDE CEILING MOUNTED OUTLET IN CEILING SPACE NEAR CONDUIT STUB UP.
5. POWER DISTRIBUTION UNIT TO BE TATE ZONE DISTRIBUTION BOX OR EQUAL WITH JUMPER CONNECTIONS TO ALL POWER FLOOR BOXES. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. FLOOR BOX TO BE TATE COMPATIBLE WITH JUMPER CONNECTIONS. OUTLET TYPE AS SHOWN PER SYMBOL LEGEND ON SHEET E0.1. FLOOR BOX FINISH TO MATCH THE ADJACENT FLOOR FINISH. SEE ARCHITECTURAL FINISHES DRAWINGS FOR MORE DETAILS.
7. MECHANICAL UNIT TO BE FED POWER VIA CORRESPONDING CONDENSER UNIT ON THE ROOF. SPLIT SYSTEM TO BE SINGLE POINT OF CONNECTION FOR POWER. SEE MECHANICAL DRAWINGS FOR MORE DETAILS.
8. J-BOX CONNECTION TO CATV PANEL. VERIFY EXACT LOCATION WITH IT DRAWINGS.
9. J-BOX FOR CONNECTION TO TELCO PANEL. VERIFY EXACT LOCATION WITH IT DRAWINGS.
10. J-BOX FOR CONNECTION TO BET PANEL. VERIFY EXACT LOCATION WITH IT DRAWINGS.
11. CONTRACTOR TO COORDINATE OUTLET MOUNTING & FEEDS WITH ARCHITECTURAL DETAIL.
12. J-BOX CONNECTION TO LIGHTED SHELVES. PROVIDE FINAL CONNECTIONS PER MANUFACTURER;S INSTALLATION INSTRUCTIONS.
13. CEILING MOUNTED J-BOX TO BE CONNECTED TO WIRELESS ACCESS POINTS. VERIFY EXACT LOCATION WITH OWNER AND IT DRAWINGS.
14. RECEPTACLES TO BE RECESSED IN THE CONCRETE COUNTER. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.
15. JUNCTION BOX FOR MOTORIZED OVERHEAD COILING DOOR. PROVIDE FINAL CONNECTIONS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. JUNCTION BOX FOR MOTORIZED PROJECTOR SCREEN IN CEILING SPACE. VERIFY EXACT SCREEN LOCATION AND PROVIDE FINAL CONNECTIONS TO SCREEN MOTOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
17. CONTRACTOR TO MATCH FINISH OF POWER PANEL TO THE FINISH OF THE WALL ON WHICH IT IS INSTALLED. VERIFY EXACT FINISH OF WALL WITH ARCHITECTURAL DRAWINGS.
18. JUNCTION BOX FOR CONNECTION TO HAND DRYER. PROVIDE FINAL CONNECTIONS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
19. JUNCTION BOX FOR ADA ACCESS BUTTON. EXTEND CONDUIT AND WIRING TO FEED POWER TO CONTROL PANEL WHERE LOCATED.
20. JUNCTION BOX FOR MECHO SHADES. PROVIDE FINAL CONNECTIONS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



1 POWER PLAN

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

0 4' 8' 16'

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DATE
02/21/2012
DRAWING NO. **6693**

SHEET TITLE
POWER PLAN 1

SHEET NO.
E2.0

SHEET OF
DWG NO. -
TITLE OF PROJECT

GENERAL NOTES

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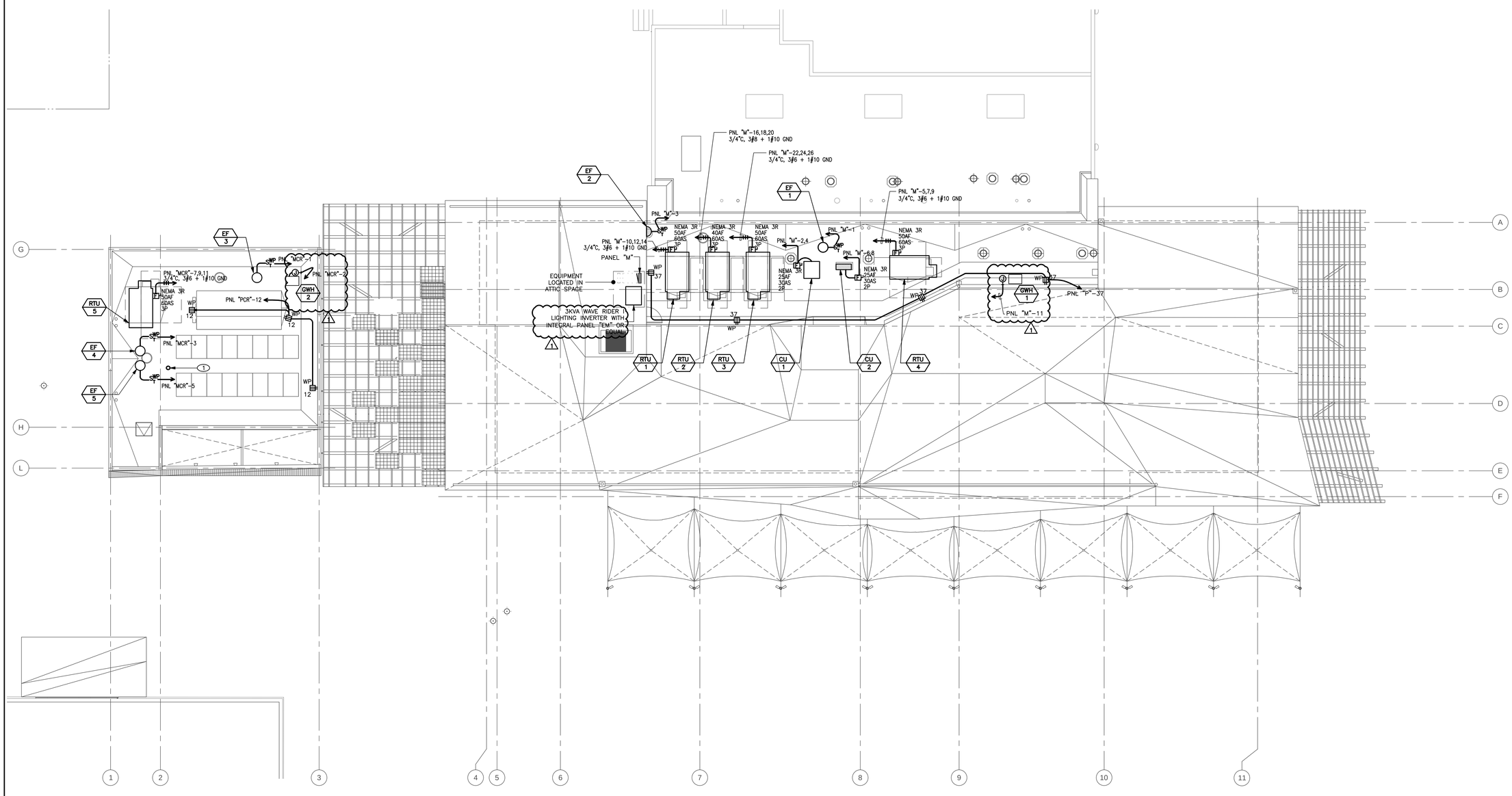
4. FOR ADDITIONAL INFORMATION ON LOW VOLTAGE SYSTEMS (IT & AV) SEE LOW VOLTAGE CONSULTANT DRAWINGS.
5. ALL OUTDOOR EQUIPMENT TO BE IN A NEMA 3R WEATHERPROOF ENCLOSURE.

SHEET NOTES

(1) CONTRACTOR TO PROVIDE (1)4"C.O. TO STUB INTO ELECTRICAL ROOM FOR PV CONNECTIONS. CONFIRM CONDUIT REQUIREMENTS WITH PV VENDOR.



1 **POWER ROOF PLAN**
SCALE: 1/8"=1'–0"

0 4' 8' 16'

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POWER ROOF PLAN

SHEET NO.
E2.1

SHEET OF

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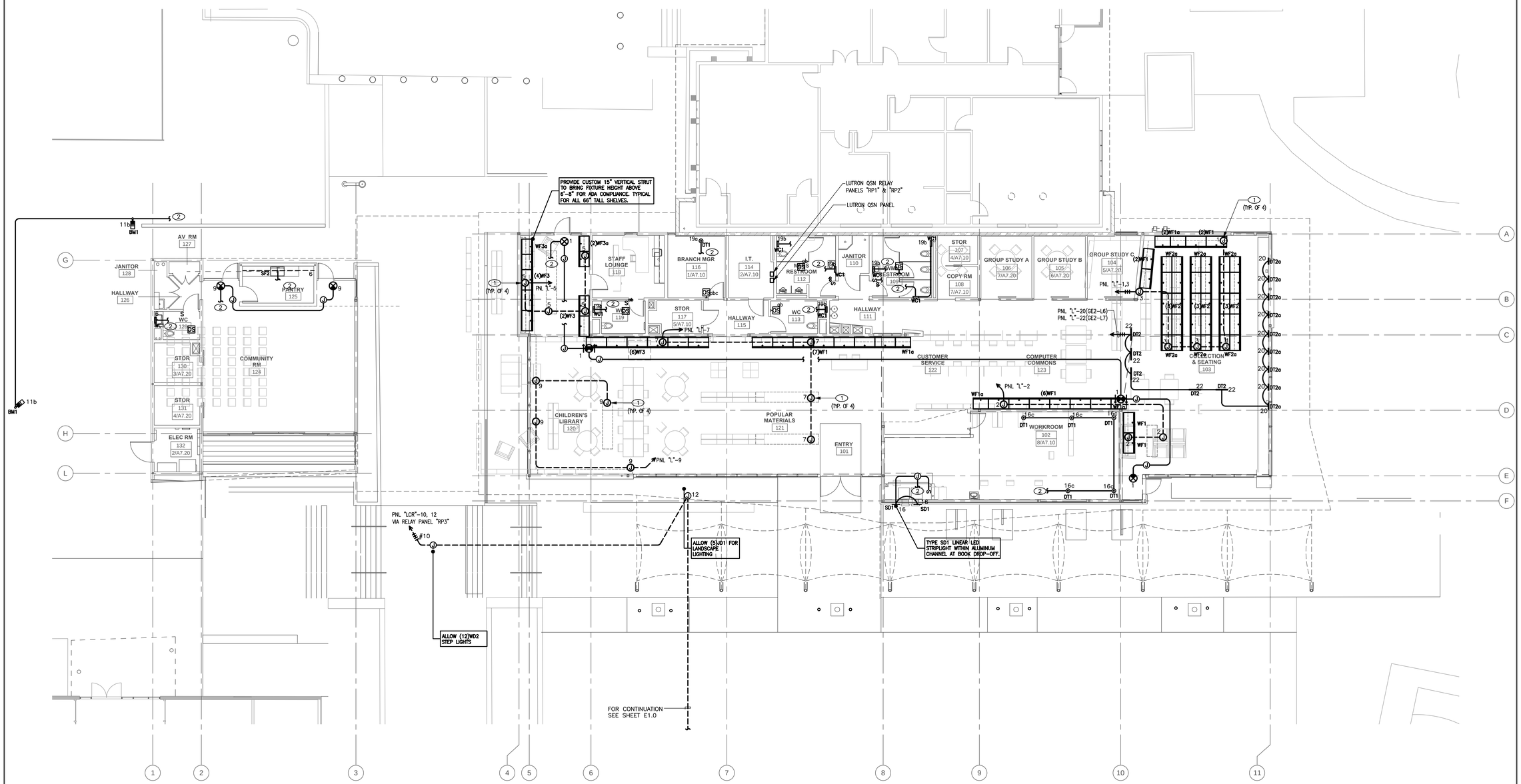
4. FOR ADDITIONAL INFORMATION ON LOW VOLTAGE SYSTEMS (IT & AV) SEE LOW VOLTAGE CONSULTANT DRAWINGS.
5. FOR CONTINUATION OF CIRCUITING FOR VANITY LIGHTING & SWITCH LOCATIONS SEE SHEET E3.1

SHEET NOTES

(1) J-BOX FOR CONNECTION TO INTEGRAL SHELVING LIGHTING. SEE ARCHITECTURAL FOR MORE DETAILS.

(2) FOR CONTINUATION REFER TO SHEET E3.1.



1 **LOWER LEVEL LIGHTING PLAN**
SCALE: 1/8"=1'-0"

0 4' 8' 16'

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SHEET TITLE
LOWER LEVEL LIGHTING PLAN

SHEET NO.
E3.0

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

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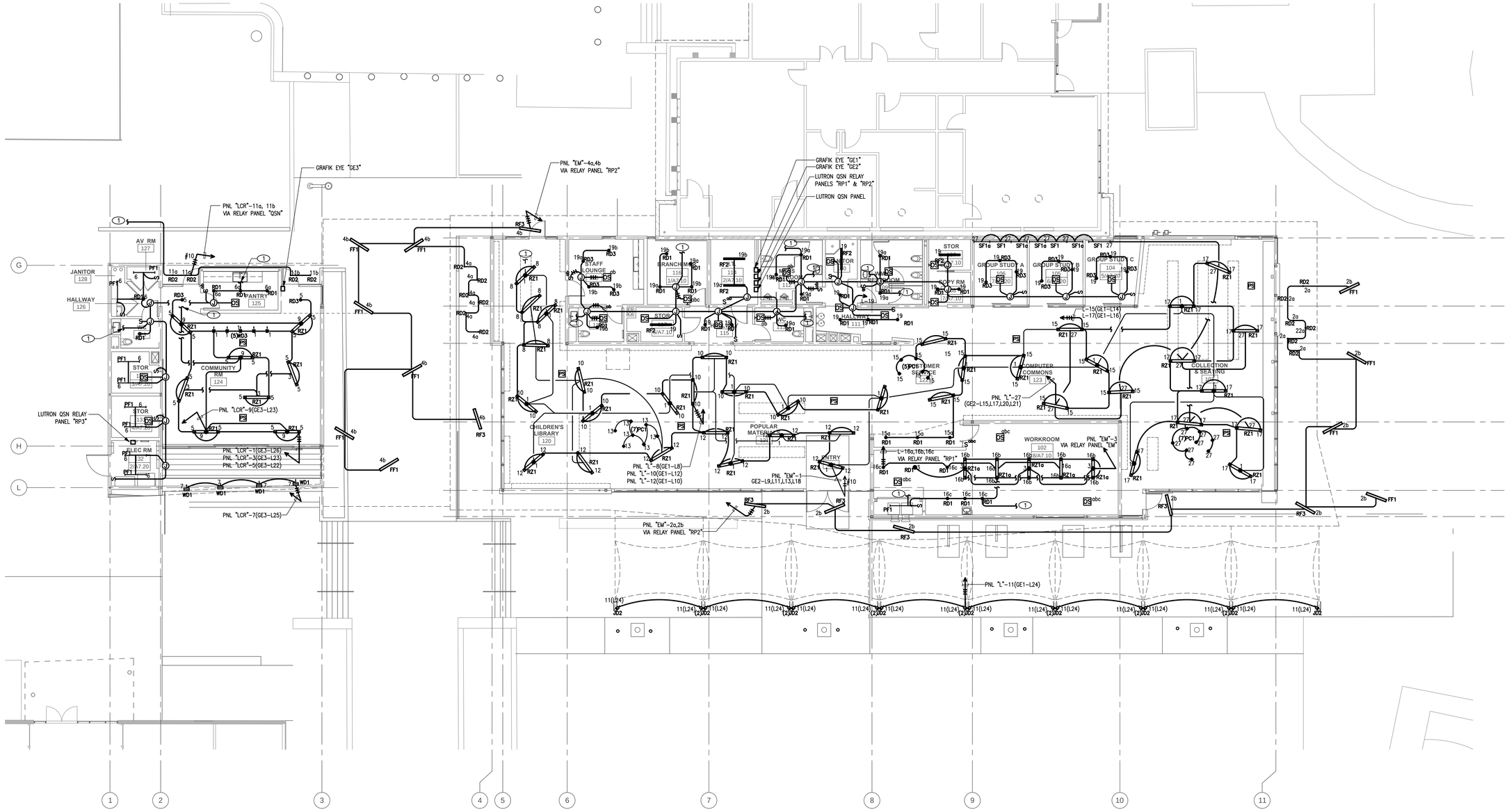
SHEET NOTES

(1) FOR CONTINUATION REFER TO SHEET E3.0.



1 **LOWER LEVEL LIGHTING PLAN**
SCALE: 1/8"=1'-0"

0 4' 8' 16'

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LOWER LEVEL LIGHTING PLAN 1

SHEET NO.
E3.1

SHEET OF

DWG. NO. -

TITLE OF PROJECT

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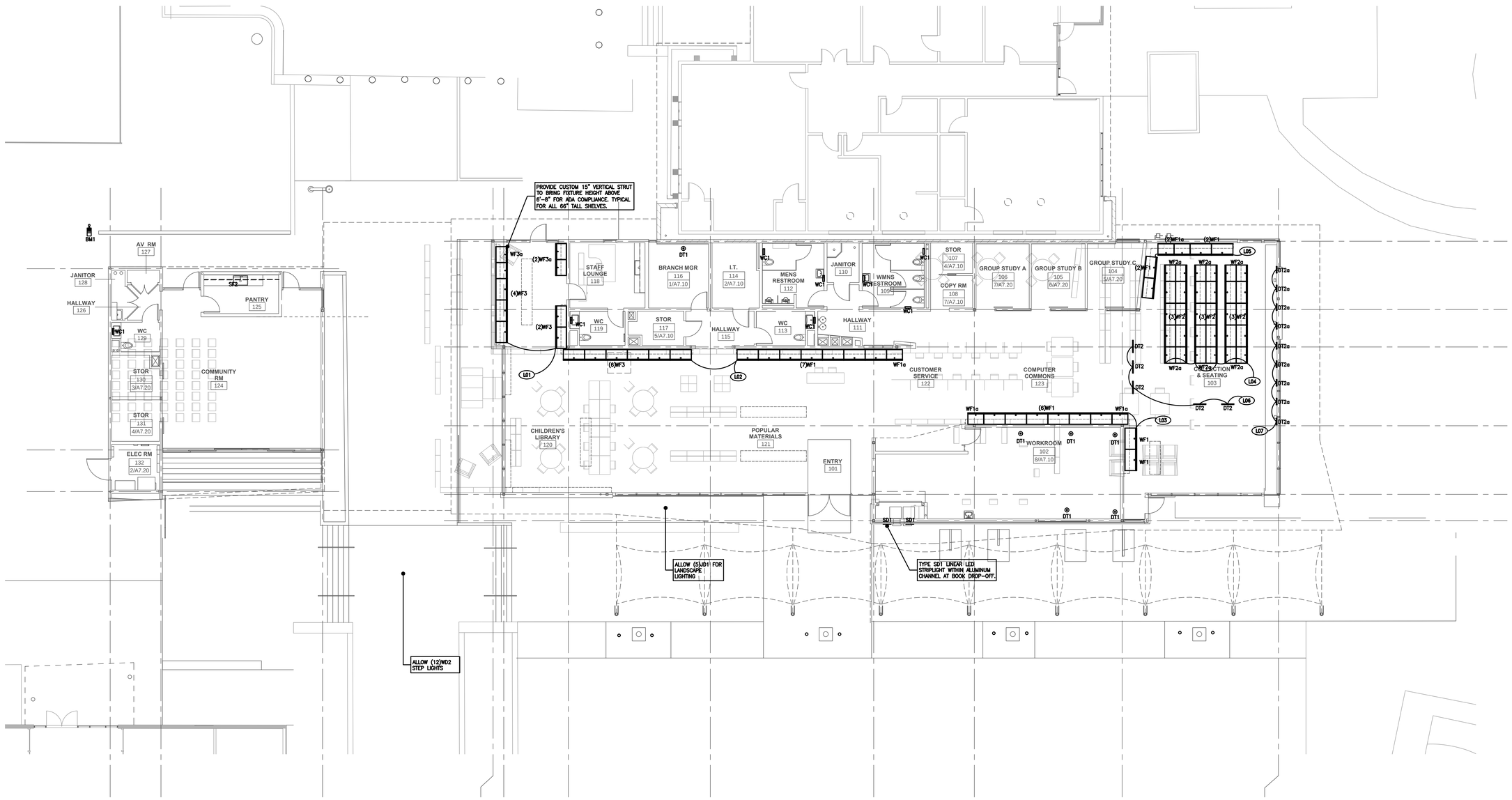

1 **LOWER LEVEL LIGHTING CONTROL ZONE PLAN**
SCALE: 1/8"=1'–0"

0 4' 8' 16'

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DRAWING NO. **6693**

SHEET TITLE
LOWER LEVEL LIGHTING CONTROL ZONE PLAN

SHEET NO. **E3.2** 1

SHEET OF

DWG. NO. -

TITLE OF PROJECT:

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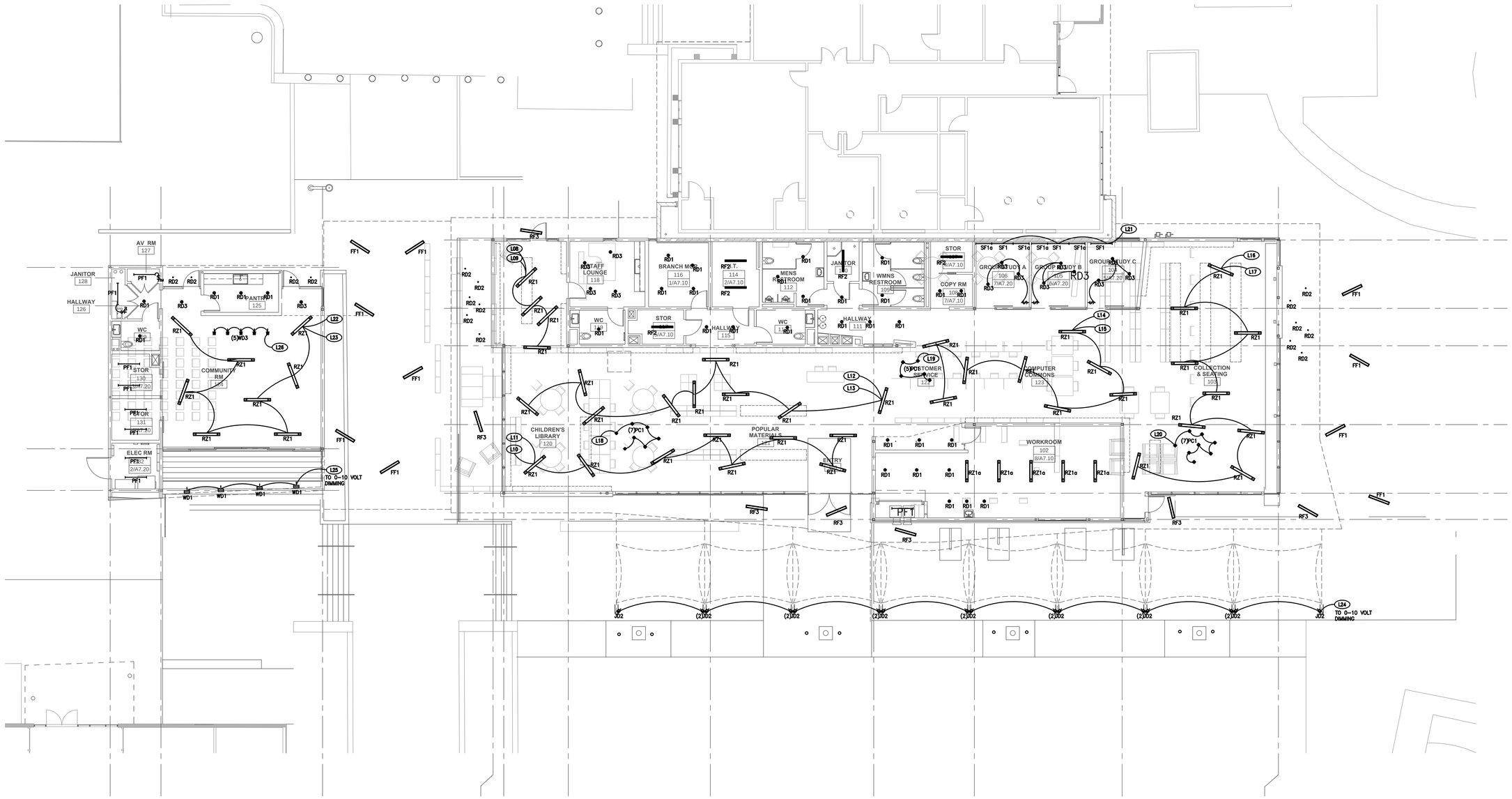

1 **CELING LEVEL LIGHTING CONTROL ZONE PLAN**
SCALE: 1/8"=1'–0"

0 4' 8' 16'

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SHEET TITLE
CEILING LEVEL LIGHTING CONTROL ZONE PLAN

SHEET NO. **E3.3** 1

SHEET OF

DWG. NO. -

TITLE OF PROJECT

SHEET OF

DWG. NO. -

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 4W | 2=(NON-CONTINUOUS)
PANEL: LCR | COPPER BUS: 100A | 3=(RECEPTACLES)
AIC RATING: 10,000 | MAINS CB: 100A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	1	1	20	RM 124 LIGHTING				5	75	255		180	2			SPARE	20	1	1	2
3	1	1	20	RM 124 LIGHTING				3	168		208	40	4			SPARE	20	1	1	4
5	1	1	20	RM 124 LIGHTING				18	650			1065	415	15		RM 125,129,130,131&132 LTGS	20	1	1	6
7	1	1	20	EXTERIOR LIGHTING				4	40	50		10	2			EXIT SIGNS	20	1	1	8
9	1	1	20	*COMM. RM EM LTG				7	290		410	120	12			SOUTH EXTERIOR LIGHTING	20	1	1	10
11	1	1	20	*COMM. EXT. LTG				6	30			1000			1	GARBAGE DISP. RM 125	20	1	2	12
13		1	20	SPARE												SPARE	20	1		14
15																				16
17																				18
19																				20
21											0									22
23																				24
25																				26
27											0									28
29																				30
31																				32
33											0									34
35																				36
37																				38
39											0									40
41																				42
								TOTAL	305	618	1065									

*CIRCUIT TO FEED LTG VIA EMERGENCY LTG INVERTER IN MAIN ELECTRICAL ROOM. SEE POWER/LTG PLANS FOR MORE DETAILS.

CONNECTED KVA	2.0
CONN.KVA (CODE 1)	2.0
CONN.KVA (CODE 2)	1.0
CONN.KVA (CODE 3)	0.0
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	3.5
FEEDER DEMAND AMPS	9.6
X'FMR. KVA	3.0

DATE: 17-Feb-12 | PANEL VOLTAGE: 480/277V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 4W | 2=(NON-CONTINUOUS)
PANEL: MCR | COPPER BUS: 125A | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 125A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	2	20	1	EF-3	1			696	816			120			1	GWH-2	1	20	2	2
3	2	20	1	EF-4	1			696		696							1	20		4
5	2	20	1	EF-5	1			696			696						1	20		6
7	1	50	3	RTU-5	1			2565	2565								1	20		8
9	1	-	-	-	1			2565		2565							1	20		10
11	1	-	-	-	1			2565			2565						1	20		12
13		20	1						0								1	20		14
15		20	1							0							1	20		16
17		20	1								0						1	20		18
19		20	1						0								1	20		20
21		20	1							0							1	20		22
23		20	1								0						1	20		24
25		20	1						0								1	20		26
27		20	1							0							1	20		28
29		20	1								0						1	20		30
31		20	1						0								1	20		32
33		20	1							0							1	20		34
35		20	1								0						1	20		36
37		20	1						0								1	20		38
39		20	1							0							1	20		40
41		20	1								0						1	20		42
								TOTAL	3381	3261	3261									

CONNECTED KVA	10.1
CONN.KVA (CODE 1)	7.7
CONN.KVA (CODE 2)	2.2
CONN.KVA (CODE 3)	0.0
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	11.8
FEEDER DEMAND AMPS	14.2

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 5W | 2=(NON-CONTINUOUS)
PANEL: PCR | COPPER BUS: 225A | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 200A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	3	20	1	COMM RM 124 FLOOR OUTLETS		2		720	1080			360			2	PANTRY RM 125 RECEPTS	1	20	3	2
3	3	20	1	COMM RM 124 FLOOR OUTLETS		1		360		720		360			2	PANTRY RM 125 RECEPTS	1	20	3	4
5	3	20	1	COMM RM 124 FLOOR OUTLETS		1		360			720	360			1	AV RM 127 REC	1	20	3	6
7	3	20	1	COMM RM 124 RECEPTS		1		360	720			360			1	AV RM 127 REC	1	20	3	8
9	2	20	1	COMM RM 124 PROJ. SCREEN	1			360		720		360			1	AV RM 127 REC	1	20	3	10
11	3	20	1	STOR. RM 130,131 RECEPTS	3			540			1260	720			4	ROOF RECEPTS	1	20	3	12
13		20	1	SPARE					360			360			2	RM 128, 129 RECEPTS	1	20	3	14
15	2	20	1	COMM RM 124 WAP	2			400		940		540			3	COMM RM 124 GEN. REC.	1	20	3	16
17		20	1	SPARE							0									18
19									0											20
21										0										22
23											0									24
25									0											26
27										0										28
29											0									30
31									0											32
33										0										34
35											0									36
37									0											38
39										0										40
41											0									42
								TOTAL	2160	2380	1980									

CONNECTED KVA	7.1
CONN.KVA (CODE 1)	0.0
CONN.KVA (CODE 2)	0.8
CONN.KVA (CODE 3)	5.8
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	6.5
FEEDER DEMAND AMPS	18.1
X'FMR. KVA	6.5

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 4W | 2=(NON-CONTINUOUS)
PANEL: L | COPPER BUS: 100A | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 100A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	1	20	1	RM 103 SHELVE LIGHTING				720	1620			900				RM 103, 123 SHELVE LIGHTING	1	20	1	2
3	1	20	1	RM 103 SHELVE LIGHTING	1			720		1004		284	14			EXT. LTG - WEST CANOPY	1	20	1	4
5	1	20	1	RM 120 SHELVE LIGHTING	1			720			1032	312	15			EXT. LTG - SOUTH /EAST CANOPY	1	20	1	6
7	1	20	1	RM 121 SHELVE LIGHTING	1			720	992			272	4			RM 120-121 LIGHTING	1	20	1	8
9	1	20	1	RM 120 SHELVE LIGHTING	1			720		1224		504	8			RM 120-121 LIGHTING	1	20	1	10
11	1	20	1	EXTERIOR LIGHTING			16	432			1032	600	8			RM 120-121 LIGHTING	1	20	1	12
13	1	20	1	RM 101,120,121,122 LIGHTING			18	798	2044			1246	19			EMERGENCY LIGHTING	1	20	1	14
15	1	20	1	RM 122-123 LIGHTING			8	768		1738		970	17			RM 122 LIGHTING	1	20	1	16
17	1	20	1	RM 103 LIGHTING			16	822			1555	733	15			RM 122 LIGHTING	1	20	1	18
19	1	20	1	RM 104-119 LIGHTING			44	1298	1451			153	9			RM 103 TABLE LIGHTING	1	20	1	20
21	1	20	1	EXIT SIGNS			4	20		0		17	5			RM 103 TABLE LIGHTING	1	20	1	22
23	1	20	1	SOUTH LANSCAPE LIGHTING			5	150			150				1	INVERTER PANEL "EM"	3	20	1	24
25	1	20	1	SIGNAGE LIGHTING			10	300	300						-	-	-	-	1	26
27	1	20	1	RM 102,104,105,106,123 LIGHTING			15	670		670					-	-	-	-	1	28
29		20	1	SPARE							0						1	20		30
31		20	1	SPARE					0								1	20		32
33		20	1							0							1	20		34
35		20	1								0						1	20		36
37		20	1						0								1	20		38
39		20	1							0							1	20		40
41		20	1								0						1	20		42
								TOTAL	6407	4636	3769									

CONNECTED KVA	19.2
CONN.KVA (CODE 1)	14.8
CONN.KVA (CODE 2)	0.0
CONN.KVA (CODE 3)	0.0
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	18.6
FEEDER DEMAND AMPS	51.5
X'FMR. KVA	14.8

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 4W | 2=(NON-CONTINUOUS)
PANEL: M | COPPER BUS: 225A | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 200A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	2	20	1	EF-1	1			528	5416			4888				CU-1	2	30	2	2
3	2	20	1	EF-2	1			528		2972		2444			-	-	-	-	2	4
5	2	50	3	RTU-4	1			2565			5061	2496			1	CU-2	2	40	2	6
7	2	-	-	-	-			2565	5061			2496			-	-	-	-	2	8
9	2	-	-	-	-			2565		5477		2912			1	RTU-1	3	50	1	10
11	1	20	1	GWH-1	1			120			3032	2912			-	-	-	-	1	12
13	2	15	2	FC-1	1			562	3474			2912			-	-	-	-	1	14
15	2	-	-	-	-			562		2642		2080			1	RTU-2	3	40	2	16
17		20	1								2080	2080			-	-	-	-	2	18
19		20	1							2080		2080			-	-	-	-	2	20
21		20	1								0	2565			1	RTU-3	3	50	2	22
23		20	1								2565	2565			-	-	-	-	2	24
25		20	1						2565			2565			-	-	-	-	2	26
27		20	1							0							1	20		28
29		20	1								0						1	20		30
31		20	1						0								1	20		32
33		20	1							0							1	20		34
35		20	1								0						1	20		36
37		20	1						0								1	20		38
39		20	1							0							1	20		40
41											0									42
								TOTAL	18596	11091	12738									

CONNECTED KVA	55.8
CONN.KVA (CODE 1)	8.9
CONN.KVA (CODE 2)	36.1
CONN.KVA (CODE 3)	0.0
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	47.2
FEEDER DEMAND AMPS	131.0
X'FMR. KVA	45.0

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 5W | 2=(NON-CONTINUOUS)
PANEL: P | COPPER BUS: 225A | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 200A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	3	20	1	WORKROOM 102 RECEPTS		3		900	1440			540			3	GRP STDY RM 104/105/106 REC	1	20	3	2
3	3	20	1	WORKROOM 102 RECEPTS		3		900		1440		540			3	GRP STDY RM 104/105/106 REC	1	20	3	4
5	3	20	1	WORKROOM 102 RECEPTS		2		360			720	360			2	COPY RM 108 REC	1	20	3	6
7	3	20	1	RM 103 FLOOR OUTLETS		2		720	1440			720			4	RM 108, 110, 112 RECEPTS	1	20	3	8
9	3	20	1	RM 103 FLOOR OUTLETS		2		720		1440		720			2	RM 123 FLOOR OUTLETS	1	20	3	10
11	3	20	1	RM 102 FLOOR OUTLETS		1		360			1080	720			2	RM 123 FLOOR OUTLETS	1	20	3	12
13	3	20	1	RM 103 FLOOR OUTLETS		2		720	1440			720			2	RM 123 FLOOR OUTLETS	1	20	3	14
15	3	20	1	RM 103 FLOOR OUTLETS		1		360		1260		900			5	OUTDOOR RECEPTS	1	20	3	16
17	3	20	1	RM 122 FLOOR OUTLETS		2		720			1620	900			5	OUTDOOR RECEPTS	1	20	3	18
19	3	20	1	RM 121 FLOOR OUTLETS		2		720	1800			1080			3	RM 120 FLOOR OUTLETS	1	20	3	20
21	3	20	1	RM 122 FLOOR OUTLETS		2		720		0		720			2	RM 120 FLOOR OUTLETS	1	20	3	22
23	3	20	1	RM 121 FLOOR OUTLETS		3		1080			2080	1000		1		GARBAGE DISP RM 118	1	20	2	24
25	3	20	1	HAND DRYER	1			900	900								1	20	3	26
27	3	20	1	HAND DRYER	1			900		1800		900				RM 103 RECEPTS	1	20	3	28
29	3	20	1	ADA PUSH BUTTONS	1			500			2420	1920				LOUNGE RM 118 RECEPTS	1	20	3	30
31	2	20	1	HALLWAY 111 EWC				360	1260			900				RM 116, 118, 119 RECEPTS	1	20	3	32
33	3	20	1	RM 115,117 RECEPTS				720		1980		1260				WORK RM 102 RECEPTS	1	20	3	34
35	3	20	1	RM 116 RECEPTS				720			4318	3598			3	AUTOMATIC SORTING MACHINE	3	40	2	36
37	3	20	1	ROOF RECEPTS				720	4318			3598				-	-	-	2	38
39	2	20	1	WIRELESS ACCESS POINTS				600		4198		3598				-	-	-	2	40
41		20	1	SPARE							600	600				MOTORIZED COILING DOOR	1	20	2	42
								TOTAL	12598	12118	12838									

CONNECTED KVA	38.5
CONN.KVA (CODE 1)	0.0
CONN.KVA (CODE 2)	13.4
CONN.KVA (CODE 3)	25.6
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	31.2
FEEDER DEMAND AMPS	86.5
X'FMR. KVA	31.2

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: ELECTRICAL ROOM 132 | PHASE & WIRE: 3PH. 4W | 2=(NON-CONTINUOUS)
PANEL: EM | COPPER BUS: 225A | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 200A | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	1	20	1	RM 101,120,122,123,124 EM. LTGS			22	1028	1340			312	15			RM 101,120,122,123,124 EM. LTGS	1	20	1	2
3	1	20	1	RM 102 EMERGENCY LIGHTS			4	195		479		284	14			RM 101,120,122,123,124 EM. LTGS	1	20	1	4
5		20	1	SPARE							0					SPARE	1	20		6
7		20	1	SPARE					0							SPARE	1	20		8
9		20	1	SPARE						0						SPARE	1	20		10
11		20	1	SPARE							0					SPARE	1	20		12
								TOTAL	1340	479	0									

CONNECTED KVA	4.0
CONN.KVA (CODE 1)	1.8
CONN.KVA (CODE 2)	0.0
CONN.KVA (CODE 3)	0.0
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	2.3
FEEDER DEMAND AMPS	6.3
X'FMR. KVA	1.8

1

DATE: 17-Feb-12 | PANEL VOLTAGE: 208/120V | CIRCUIT CODE: 1=(CONTINUOUS)
LOCATION: | PHASE & WIRE: 3PH. 4W | 2=(NON-CONTINUOUS)
PANEL: IT | COPPER BUS: 100 | 3=(RECEPTACLES)
AIC RATING: 10000 | MAINS CB: 60 | 4=(KITCHEN) | NO. OF EQUIP=

CKT NO	CODE	CB TRIP	POLE	LOAD DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD DESIGNATION DESCRIPTION	CB POLE	CKT TRIP	CODE	NO.
1	3	30	2	I.T. RM 114 RACK OUTLETS		1	1800		1800			1800		1		I.T. RM 114 RACK OUTLETS	2	20	3	2
3	3	-	-	I.T. RM 114 RACK OUTLETS		-	1800			1800		1800		-		I.T. RM 114 RACK OUTLETS	-	-	3	4
5	3	30	2	I.T. RM 114 RACK OUTLETS		1	1800				1800	1800		1		I.T. RM 114 RACK OUTLETS	2	20	3	6
7	3	-	-	I.T. RM 114 RACK OUTLETS		-	1800		1800			1800		-		I.T. RM 114 RACK OUTLETS	-	-	3	8
9	2	20	1	I.T. RM 114 CATV	1					800		800			1	I.T. RM 114 "FAQP	1	20	2	10
11	2	20	1	I.T. RM 114 TELCO	1						800	800			1	I.T. RM 114 SECURITY	1	20	2	12
13	2	20	1	I.T. RM 114 BET	1			720				720		4		IT ROOM GEN USE RECEPT.	1	20	3	14
15		20	1	SPARE					0							SPARE	1	20		16
17		20	1	SPARE						0						SPARE	1	20		18
19		20	1	SPARE				0								SPARE	1	20		20
21		20	1	SPARE					0							SPARE	1	20		22
23		20	1	SPARE						0						SPARE	1	20		24
25		20	1	SPARE				0								SPARE	1	20		26
27		20	1	SPARE					0							SPARE	1	20		28
29		20	1	SPACE						0						SPACE	1	20		30
31		20	1	SPACE				0								SPACE	1	20		32
33		20	1	SPACE					0							SPACE	1	20		34
35		20	1	SPACE						0						SPACE	1	20		36
37		20	1	SPACE				0								SPACE	1	20		38
39		20	1	SPACE					0							SPACE	1	20		40
41		20	1	SPACE						0						SPACE	1	20		42
								TOTAL	4320	2600	2600									

CONNECTED KVA	13.0
CONN.KVA (CODE 1)	0.0
CONN.KVA (CODE 2)	1.6
CONN.KVA (CODE 3)	7.9
CONN.KVA (CODE 4)	0.0
TENANT ALLOWANCE KVA	0.0
SPARE (DECIMAL)	SPARE KVA 0.0
FEEDER DEMAND KVA	9.5
FEEDER DEMAND AMPS	26.4
X'FMR. KVA	9.5

* = CONTRACTOR TO PROVIDE LOCK-ON DEVICE.

LEGEND

LCR	MCR	PCR
L	M	P
	EM	IT

TITLE OF PROJECT:

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

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ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

REVIEWED BY : DATE : _____ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

SHEET TITLE
PANELBOARD SCHEDULES 1

SHEET NO.
E5.1

WIRING LEGEND:

△ \ ▽QS CONTROL LINK (*SEE BELOW)

▲ \ ▼QS CONTROL LINK (*SEE BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH:

Control Link Length	Wire Gauge	Available from Lutron in one cable:
Less than 500ft (153m) use △ or ▲	Power (terminals 1&2): 1 pair 18 AWG (1.0mm²)	GRX-CBL-346S or GRX-PCBL-346S
	Data (terminals 3&4): 1 pair 22 AWG (0.5mm²), twisted and shielded*	
500ft (153m) to 2000ft (610m)** use▽ or ▼	Power (terminals 1&2): 1 pair 12 AWG (1.0mm²)	GRX-CBL-46L or GRX-PCBL-46L
	Data (terminals 3&4): 1 pair 22 AWG (0.5mm²), twisted and shielded*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5MM²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2000FT (610M).

***QS LINK CAN HAVE A MAXIMUM OF 99 DEVICES, 100 ZONES, AND 512 SWITCH LEGS.

□ NORMAL INPUT POWER

◪ NORAML/EMERGENCY INPUT POWER

● 2 #12AWG

◇ ECOSYSTEM BUS:
LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG BY OTHERS.

⚠ CAT5E OR BETTER CABLE FOR DEDICATED LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (TO BE PROVIDED BY OTHERS). 328 FEET (100M) MAXIMUM RUN.

◆ 0-10V SIGNAL 2 #18

WIRING NOTES:

QS CONTROL LINK

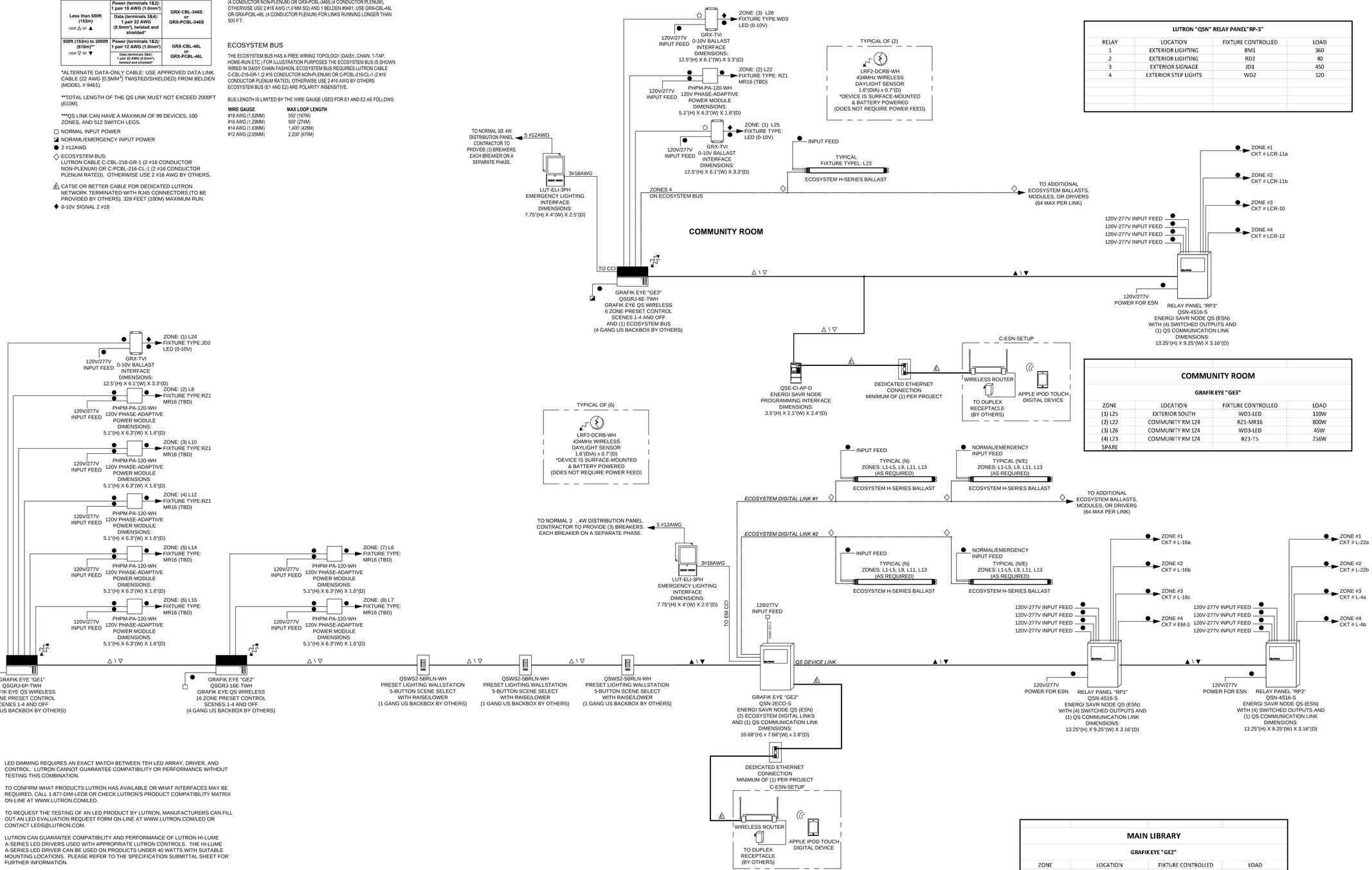
THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC.) FOR ILLUSTRATION PURPOSES THE QS CONTROL LINK IS SHOWN WIRED IN THE DAISY CHAIN FASHION. ADDITIONALLY, CONTROLS HAVE BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. CHECK POWER REQUIREMENTS BEFORE MODIFYING DEVICE WIRING ORDER. USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM) OR GRX-PCBL-346S (4 CONDUCTOR PLENUM), OTHERWISE USE 2 #18 AWG (1.0 MM SQ) AND 1 BELDEN #9461. USE GRX-CBL-46L OR GRX-PCBL-46L (4 CONDUCTOR PLENUM) FOR LINKS RUNNING LONGER THAN 500 FT.

ECOSYSTEM BUS

THE ECOSYSTEM BUS HAS A FREE WIRING TOPOLOGY (DAISY, CHAIN, T-TAP, HOME-RUN ETC.) FOR ILLUSTRATION PURPOSES THE ECOSYSTEM BUS IS SHOWN WIRED IN DAISY CHAIN FASHION. ECOSYSTEM BUS REQUIRES LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG BY OTHERS. ECOSYSTEM BUS (E1 AND E2) ARE POLARITY INSENSITIVE.

BUS LENGTH IS LIMITED BY THE WIRE GAUGE USED FOR E1 AND E2 AS FOLLOWS:

WIRE GAUGE	MAX LOOP LENGTH
#18 AWG (1.02MM)	550' (167M)
#16 AWG (1.29MM)	900' (274M)
#14 AWG (1.63MM)	1,400' (426M)
#12 AWG (2.05MM)	2,200' (670M)



LED DIMMING REQUIRES AN EXACT MATCH BETWEEN TEH LED ARRAY, DRIVER, AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LED8 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON, MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP THE USER'S DISCRETION.

IS USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

LUTRON "QSN" RELAY PANEL"RP-3"

RELAY	LOCATION	FIXTURE CONTROLLED	LOAD
1	EXTERIOR LIGHTING	BM1	360
2	EXTERIOR LIGHTING	RD2	40
3	EXTERIOR SIGNAGE	JD1	450
4	EXTERIOR STEP LIGHTS	WD2	120

COMMUNITY ROOM

GRAFIK EYE "GE3"

ZONE	LOCATION	FIXTURE CONTROLLED	LOAD
(1) L25	EXTERIOR SOUTH	WD1-LED	110W
(2) L22	COMMUNITY RM 124	RZ1-MR16	800W
(3) L26	COMMUNITY RM 124	WD3-LED	45W
(4) L23	COMMUNITY RM 124	RZ1-T5	256W
SPARE			

LUTRON QSN RELAY PANEL "RP-1"

RELAY	LOCATION	FIXTURE CONTROLLED	LOAD
1	WORK ROOM 102	RZ1A-T5	102W
2	WORK ROOM 102	RZ1A-MR16	400W
3	WORK ROOM 102	DT1/RD1-CFL	435W
4	WORK ROOM 102	RZ1A/RD1-T5/CFL	195W

LUTRON QSN RELAY PANEL "RP-2"

RELAY	LOCATION	FIXTURE CONTROLLED	LOAD
1	EXTERIOR SOUTH	RD2-LED	60W
2	EXTERIOR EAST	RF1-T5/RF3-T5	252W
3	EXTERIOR WEST	RD2-LED	60W
4	EXTERIOR WEST CANOPY	FF1-T5/RF3-T5	224W

MAIN LIBRARY

GRAFIK EYE "GE1"

ZONE	LOCATION	FIXTURE CONTROLLED	LOAD
L24	EXTERIOR LIGHTING	JD2-LED	427W
L8	CHILDRENS LIB. 120/	RZ1-MR16	400W
-	POPULAR MATERIALS 121	-	-
L10	CHILDRENS LIB. 120/	RZ1-MR16	800W
-	POPULAR MATERIALS 121	-	-
L12	CHILDRENS LIB. 120/	RZ1-MR16	900W
-	POPULAR MATERIALS 121	-	-
L14	COMPUTER	RZ1-MR16	800W
L16	COLLECTION AND SEATING	RZ1-MR16	900W
-	103	-	

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GRAFIK EYE "GE2"

ZONE	LOCATION	FIXTURE CONTROLLED	LOAD
L1	CHILDRENS LIB. 120	WF3/WF3a-T5	378W
L2	POPULAR MATERIALS 121	WF3/WF1-T5	230W
L3	COMPUTER COMMONS 123	WF1-T5	240W
L4	COLLECTION AND SEATING 103	WF2a-T5	420W
L5	COLLECTION AND SEATING 103	WF1-T5	252W
L6	COMPUTER COMMONS 123	DT2-LED	17W
L7	COLLECTION AND SEATING 103	DT2a-LED	152W
L9	CHILDRENS LIB. 120	RZ1-T5	128W
L11	CHILDRENS LIB. 120	RZ1-T5	256W
L13	CHILDRENS LIB. 120/ POPULAR MATERIALS 121	RZ1-T5	288W
L15	COMPUTER COMMONS	RZ1-T5	256W
L17	COLLECTION AND SEATING 103	RZ1-T5	288W
L18	CHILDRENS LIB. 120	PC1-CF2	210W
L19	CUSTOMER SERVICE 122	PC1-CF2	150W
L20	COLLECTION AND SEATING 103	PC1-CF2	210W
L21	GROUP STUDY ROOMS	SF1/SF1a-T5	196W

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SHEET TITLE
LIGHTING CONTROL DIAGRAM ⚠1

SHEET NO.
E5.2

SHEET OF

DWG. NO. -

TITLE OF PROJECT

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GENERAL NOTES

REFER TO AUDIO VISUAL SPECIFICATION SECTION FOR COMPLETE REQUIREMENTS

1. ELECTRICAL

A. All conduits, junction boxes, back boxes, pull string and power outlets by Division 26 contractor as required.
B. All power to AV equipment to originate from dedicated audio video load center in accordance with the latest local and national codes referencing "technical power systems", NEC Article 640.
C. Branch circuits feeding audio–visual equipment must not originate from load centers connected to inductive loads.
D. Provide all AV circuits with isolated ground, dedicated neutral.

2. COORDINATE

A. Coordinate with the work of all sections. Coordinate the location of blocking and backing required by this section. Make reasonable minor adjustments to preserve architectural symmetry and alignment with adjacent features at no claim for additional cost or time. Present conflicts in timely manner for resolution.
B. Relocation, revision or correction caused by failure of the contractor to coordinate the work shall not be subject to claim for additional cost or time.
C. Power receptacles shown on the AV drawings outside of equipment racks are shown for coordination information only. Refer to Division 26 documents for construction.
D. These drawings show scope. The exact location & elevations of loudspeakers, receptacles and devices must be coordinated with the architectural drawings.
E. Conduit, back boxes and pull boxes supplied and installed by electrical contractor under supervision of AV contractor.
F. General contractor shall coordinate the conduit, devices, pathways and junction boxes for the AV system with other trade to avoid any conflicts.

3. LOCATIONS AND DIMENSIONS

A. Locations and dimensions shown on architectural drawings take precedence over these AV drawings. In case of apparent conflict or ambiguity, submit to the Architect in timely manner for resolution.
B. Dimensions take precedence over scale. Large scale drawings take precedence over small. Report all conflicts before installation.
C. Unless otherwise noted, dimensions are shown height x width x depth.
D. Verify all dimensions, locations and conditions in the field prior to starting work. Notify Architect of any apparent discrepancies.

4. SUPPORT

Provide all blocking, bridging, ties, fasteners and related support provisions for all work of this section. Comply with applicable code requirements for means of support of electrical equipment of the same weight under the same mounting conditions. Do not apply any load to building structure without first obtaining written approval of the project Structural Engineer. Obtain per project procedures. Supports for raceway system by Division 26 contractor.

5. BOX, PANEL AND ENCLOSURE INSTALLATION

A. Coordinate the location of all boxes, panels, enclosures and related raceway with the work of other sections.
B. Verify access to boxes, panels and enclosures comply with applicable code.
C. Coordinate and correct all conditions of occlusion of all loudspeaker assemblies. Where more than one (1) flush mounted ceiling loudspeaker has been scheduled, none shall be located closer to any fixed wall than one–half (1/2) of the adjacent clear height, except at ceiling discontinuities, or where specifically shown on the drawings.
D. Install boxes, panels and enclosures square and plumb. Set flush mounted units so that the face of the cover, Bezel or Escutcheon, is in the same plane as the surrounding finished surface. Mount boxes, panels and trim so that there are no gaps, cracks or obvious lines between the trim and the adjacent finished surface.
E. Unless otherwise need, provide steel boxes, panels and enclosures. Comply with Division 26 requirements and applicable code.
F. Unless otherwise noted, boxes and enclosures shall be not less than 2–1/8 inches deep. Provide the larger of the size required by applicable code or as shown on drawings. Coordinate wire and cable bend radius with box and enclosure size.
G. Pull boxes: Provide as required by the most restrictive of applicable code or the provisions of Division 26. Coordinate with wire and cable bend radius.

6. RACEWAY

A. For all work of this section, raceway above ground shall be EMT, raceway below ground shall be PVC.
B. Raceway shall be ¾ inch diameter trade size unless otherwise noted.
C. All conduit runs over 100 ft. must have large radius bends.
D. A maximum of two 90 degree elbows in each conduit run.
E. Conduit with fiber optic cable installed, must conform to the minimum bend radius as specified by the manufacturer of the cable. Division 26 contractor is to apply radius bends where needed. Fiber bend radius shall be a minimum long–term low–stress radius not less than 20 times the cable diameter.
F. Keep a minimum of 12" clear between electrical conduit and low voltage conduit.

7. GROUNDING AND BONDING

Comply with all applicable codes and ordinances. Refer to National Electrical Code Section 250.

A. Bond raceway and related boxes, panels, enclosures and cabinets as required by applicable code and Division 26.
B. Make raceway connections to equipment racks and similar equipment enclosures containing powered equipment with isolated fittings.
C. Ground and bond equipment racks and similar equipment enclosures containing powered equipment exclusively via the isolated equipment grounding conductors provided under Division 26. Size such conductors according to applicable code. For each technical branch circuit, the isolated equipment grounding conductor shall be copper of the same gauge as supply and neutral conductors. Main isolated equipment grounding conductor to each ensemble of equipment racks shall be copper, sized as required by applicable code.
D. D.C. resistance between the isolated equipment grounding bus at equipment room technical power panels and the main project ground field shall not exceed 0.15 OHMS.
E. For community antenna television and master antenna television systems and related provisions, comply with Article 800, National Electrical Code.

8. CABLE AND WIRE

A. All low voltage cable and wire by Audio–Visual Contractor.
B. Use plenum rated wire where required by code.
C. All wire distribution to equipment rack to be plenum rated.

9. GENERAL

A. In the event that these plans, notes or details or any part or portion thereof are used by any third–party without the express authorized permission of VENEKLASEN ASSOCIATES, the unauthorized user and anyone benefiting therefrom, shall defend, indemnify and hold harmless VENEKLASEN ASSOCIATES and its Agents, Principals, Employees and Consultants from and against any and all claims, including attorneys' fees arising out of said unauthorized use.
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C. In the event that the installer deviates from the plans and specifications prepared by VENEKLASEN ASSOCIATES which results in damage to persons or property of any kind, Installer hereby agrees to defend, indemnify and hold harmless VENEKLASEN ASSOCIATES, its Agents, Principals, Employees and Consultants from and against any and all claims, including attorneys' fees caused by such failure to follow the plans and specifications prepared by VENEKLASEN ASSOCIATES, excepting only the damages to persons or property which are caused by the sole negligence or willful misconduct of VENEKLASEN ASSOCIATES.
D. Drawings are diagrammatic and are intended to convey Scope of Work and to indicate general arrangement. There are not intended to show every detail including offset or fitting or every structural difficulty that may be encountered during the work. Except as otherwise indicated, locations of items are approximate only. Exact locations necessary to secure proper conditions and results must be determined at project site and must be approved by the Owner's representative.
E. Except as otherwise indicated, make reasonable modifications in layout as needed to prevent conflict with other work or proper execution of work.
F. Include work not usually shown or specified, but necessary for proper installation and operation of a system or piece of equipment in work.

BOX SCHEDULE

NUMBER	DESCRIPTION	BOX TYPE	SIZE	INSTALL METHOD	ELEVATION
ALA	ASSISTIVE LISTENING ANTENNA BOX	5 SQ. BOX W/ SGMR	4-11/16 x 4-1/16 x 2-1/8	WALL	10' AFF.
AV1	AV INPUT PANEL	4 GANG BOX DEEP W/ 4GMR	10-7/16 x 4-1/2 x 2-1/2	WALL	PSRH
AVD1	AUDIO VIDEO DISTRIBUTION BOX	HOFFMAN ASG12X12X6NK	12 x 12 x 6	WALL	48" AFF.
CT1	CONTROL STATION	CRESTRON BB-8X-DSW	10.79 x 13.79 x 3.25	WALL	PSCH
FB1	FLOOR BOX	FSR INC FL-540P W/ COVER	10 x 12 x 6	FLOOR	
LP1	LECTERN PANEL	4 GANG BOX DEEP W/ 4GMR	10-7/16 x 4-1/2 x 2-1/2	IN LECTERN	
PSC	PROJECTION SCREEN CONTROL BOX	5 SQ. BOX W/ SGMR	4-11/16 x 4-1/16 x 2-1/8	ABOVE CEILING	
SC1	CEILING SPEAKER	QSC AD-CIS2ST MUDRING OR TILEBRIDGE		CEILING	
SIW1	IN-WALL SPEAKER	TANNOY iw62 TDC BACK CAN 8000 4220	17.76 x 47.24 x 3.51	WALL	5'-8" AFF.
SIW2	IN-WALL SPEAKER	TANNOY iw4 DC BACK CAN 8000 5130	17.76 x 18.78 x 3.51	WALL	8'-6" AFF.
VPJ	VIDEO PROJECTOR JUCTION BOX	5 SQ. BOX W/ 2GMR	4-11/16 x 4-1/16 x 2-1/8	WALL	10' AFF.
WMA	WIRELESS MIC ANTENNA BOX	4 GANG BOX DEEP W/ 4GMR	10-7/16 x 4-1/2 x 2-1/2	WALL	10' AFF.

SHEET INDEX

Sheet Index

Sheet Number	Sheet Title	DESIGN DEVELOPMENT 10/25/11	COORDINATION SET 11/28/11	50% CONSTRUCTION DOCUMENTS 12/22/11	65% CONSTRUCTION DOCS / BID SET 01/23/12	PLAN CHECK SUBMISSION 02/03/12	ADDENDUM 2 02/21/12
AV0.01	GENERAL NOTES BOX SCHEDULE AND SHEET INDEX	X	X	X	X	X	X
AV0.02	ABBREVIATIONS NOTES AND SYMBOLS			X	X	X	
AV1.01A	COMMUNITY ROOM EQUIPMENT PLAN	X	X	X	X	X	X
AV1.01B	COMMUNITY ROOM INFRASTRUCTURE PLAN			X	X	X	X
AV1.02A	LIBRARY EQUIPMENT PLAN	X	X	X	X	X	X
AV1.02B	LIBRARY INFRASTRUCTURE PLAN			X	X	X	
AV2.51	SECTIONS AND ELEVATIONS	X	X	X	X	X	X
AV3.00	WIRING SCHEME AND SYMBOL KEY			X	X	X	
AV3.01	SCHEMATIC DIAGRAM			X	X	X	X
AV4.51	TYPICAL EQUIPMENT ROOM LAYOUT			X	X	X	
AV6.01	AV DETAILS			X	X	X	X
AV6.02	AV DETAILS			X	X	X	X
AV6.03	AV DETAILS			X	X	X	X

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SHEET TITLE
GENERAL NOTES
BOX SCHEDULE
AND SHEET INDEX

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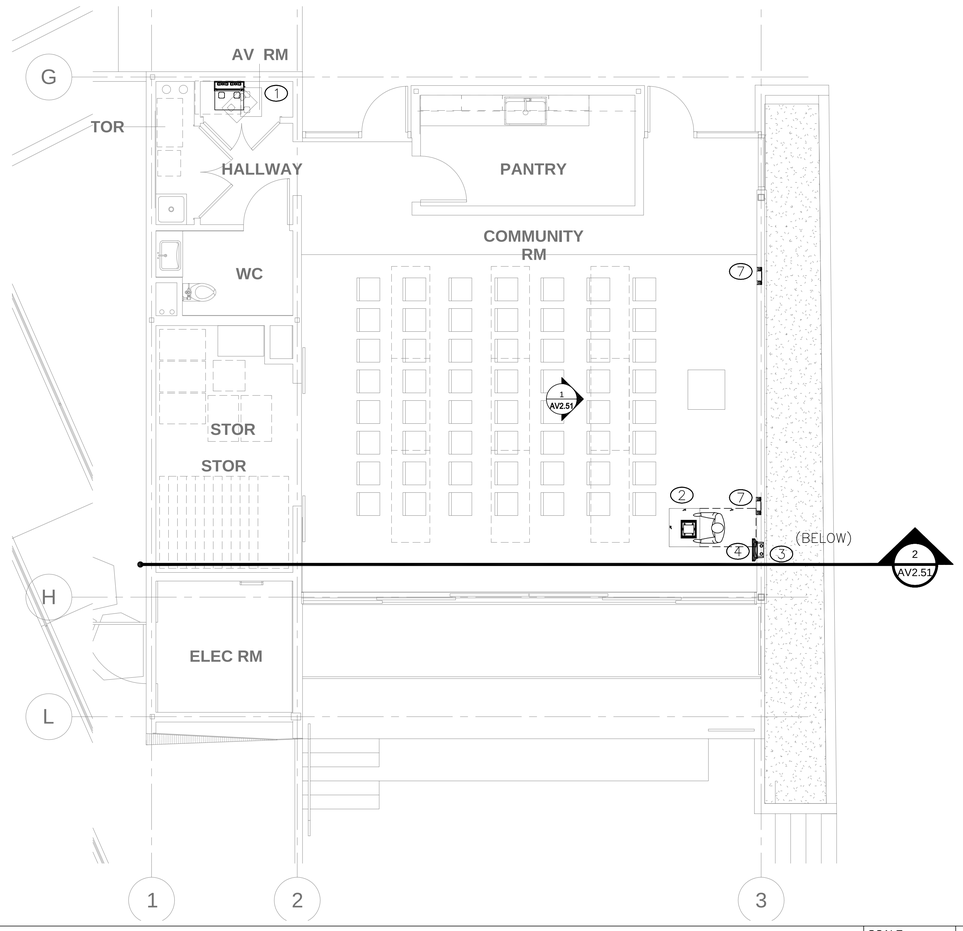
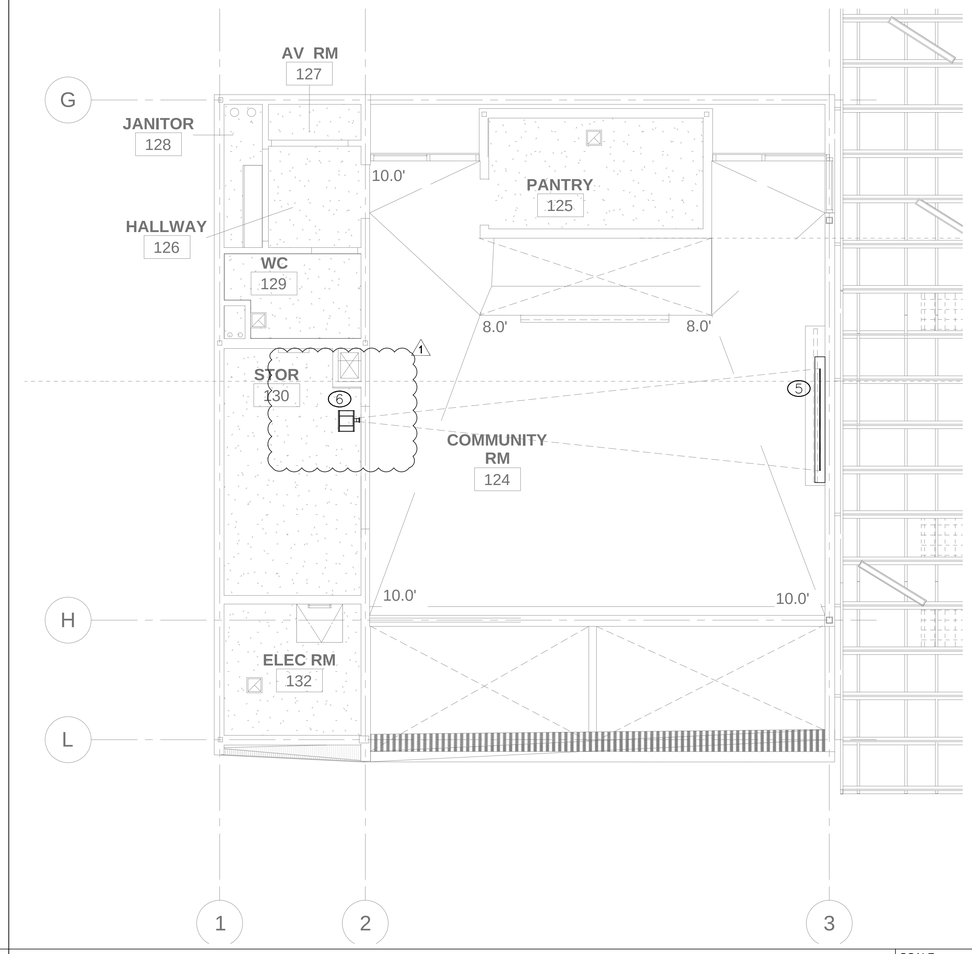
AV0.01



COMMUNITY ROOM FLOOR PLAN

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



COMMUNITY ROOM REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0\ 2

AV EQUIPMENT NOTES:

1. EQUIPMENT RACK
   - *PRESENTATION SWITCHER
   - *POWER AMPLIFIER
   - *BLU-RAY/DVD PLAYER WITH TUNER
   - *CONTROL SYSTEM
   - *ASSISTIVE LISTENING SYSTEM
   - *WIRELESS MICROPHONE SYSTEM
2. LECTERN
   - *GOOSENECK MICROPHONE
   - *AV INPUT PANEL
3. AV WALL BOX
   - *(4) MIC INPUTS
   - *(1) LINE OUTPUT
   - *(1) DIGITAL AND ANALOG VIDEO INPUT
4. DOCKABLE TOUCH PANEL
5. 16:10 94" DIAG. RECESSED PROJECTION SCREEN
6. WXGA VIDEO PROJECTOR (MOUNTED ON WALL SEE DETAIL 1 ON AV6.01) 1
7. IN-WALL SPEAKER FOR SOUND REINFORCEMENT AND PAGING SYSTEMS
8. IN-WALL PAGING SPEAKER
9. RECESSED CEILING SPEAKER FOR PAGING

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SHEET TITLE
COMMUNITY ROOM EQUIPMENT PLAN

SHEET NO.
AV1.01A

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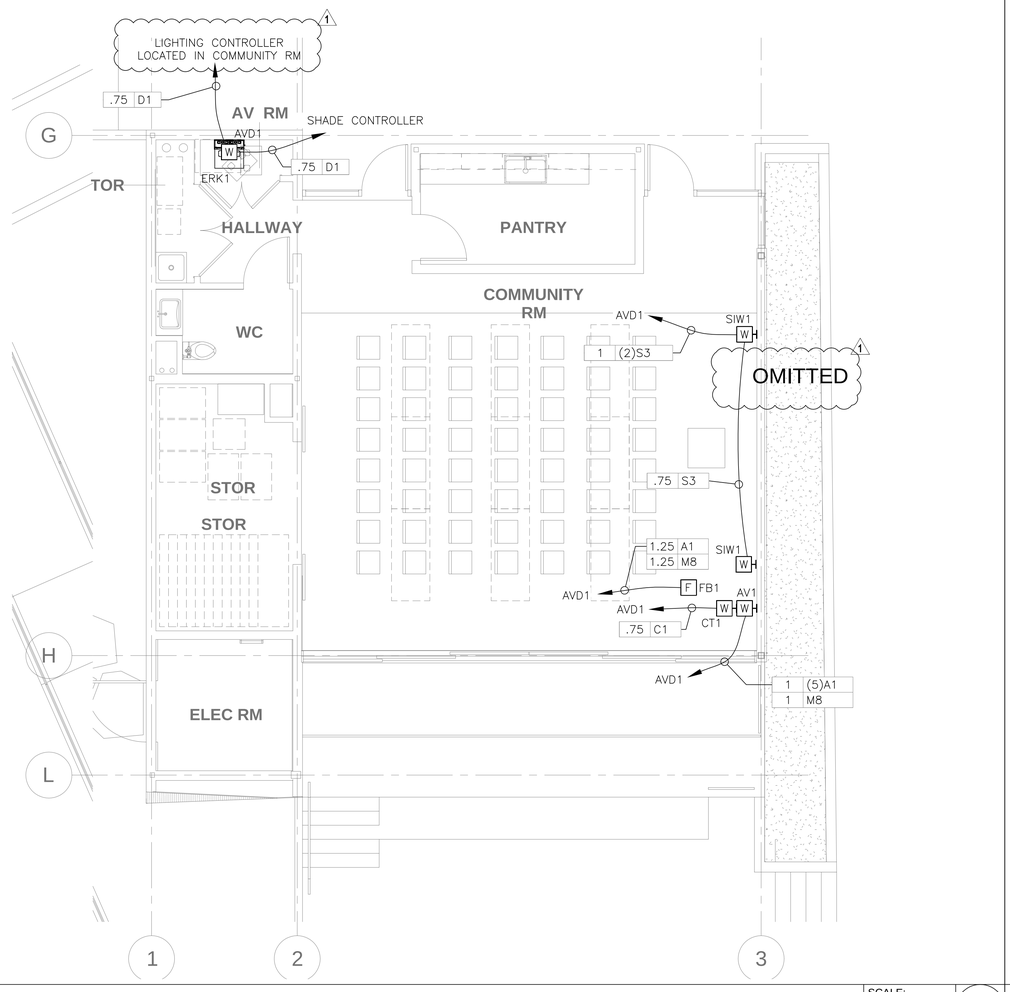
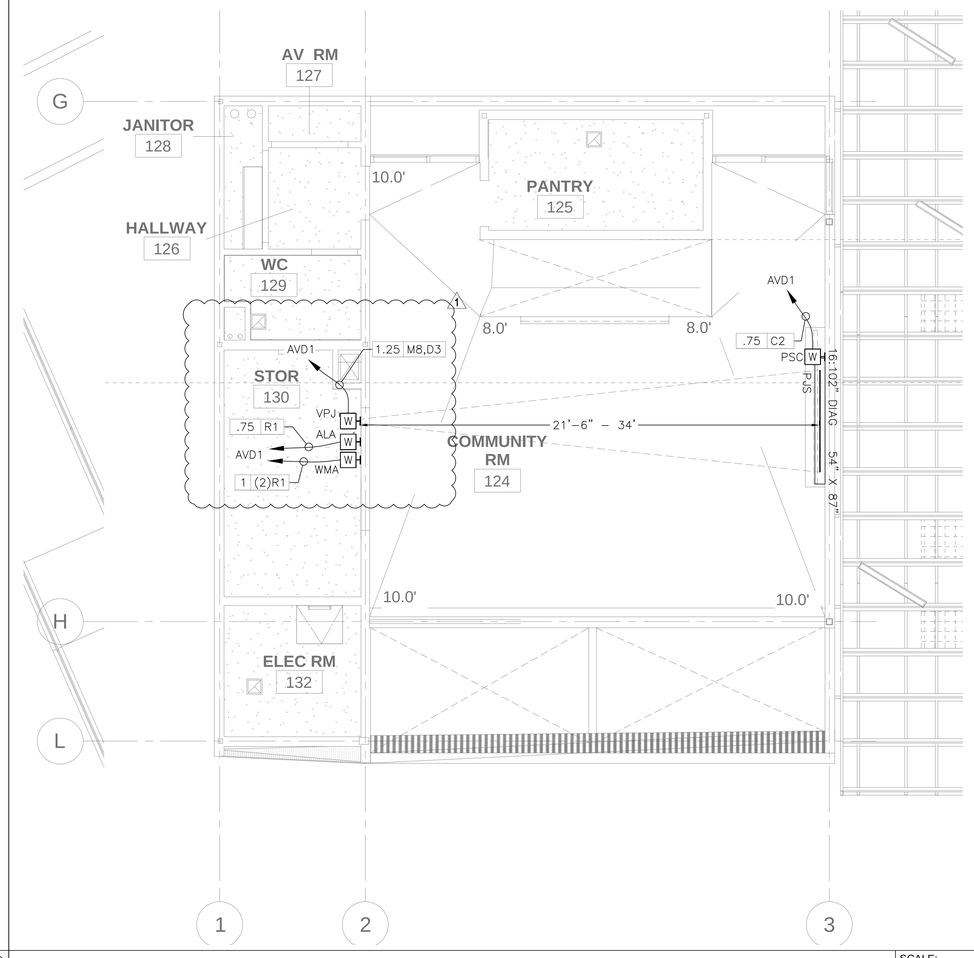
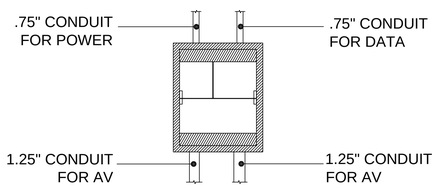


COMMUNITY ROOM FLOOR PLAN | SCALE: 1/4" = 1'-0\ | 1



COMMUNITY ROOM REFLECTED CEILING PLAN | SCALE: 1/4" = 1'-0\ | 2



FLOOR BOX "FB1" CONDUIT LAYOUT | SCALE: NTS | A

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APPROVED BY : DATE : _____ 20 __
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Architecture Services Manager

CITY OF SANTA MONICA
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ADDENDUM 2

DATE
02/21/12

DRAWING NO. **6693**

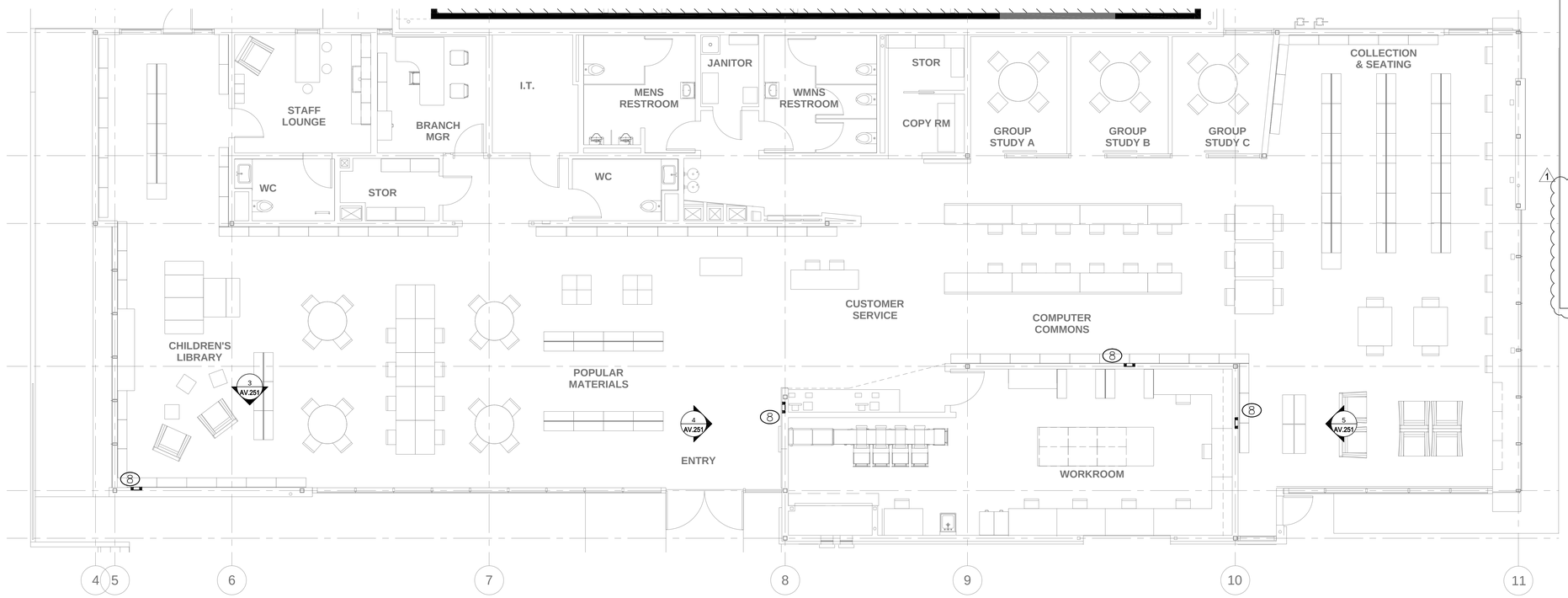
SHEET TITLE
COMMUNITY ROOM INFRASTRUCTURE PLAN

SHEET NO.
AV1.01B

SHEET OF

DWG NO. -

TITLE OF PROJECT :



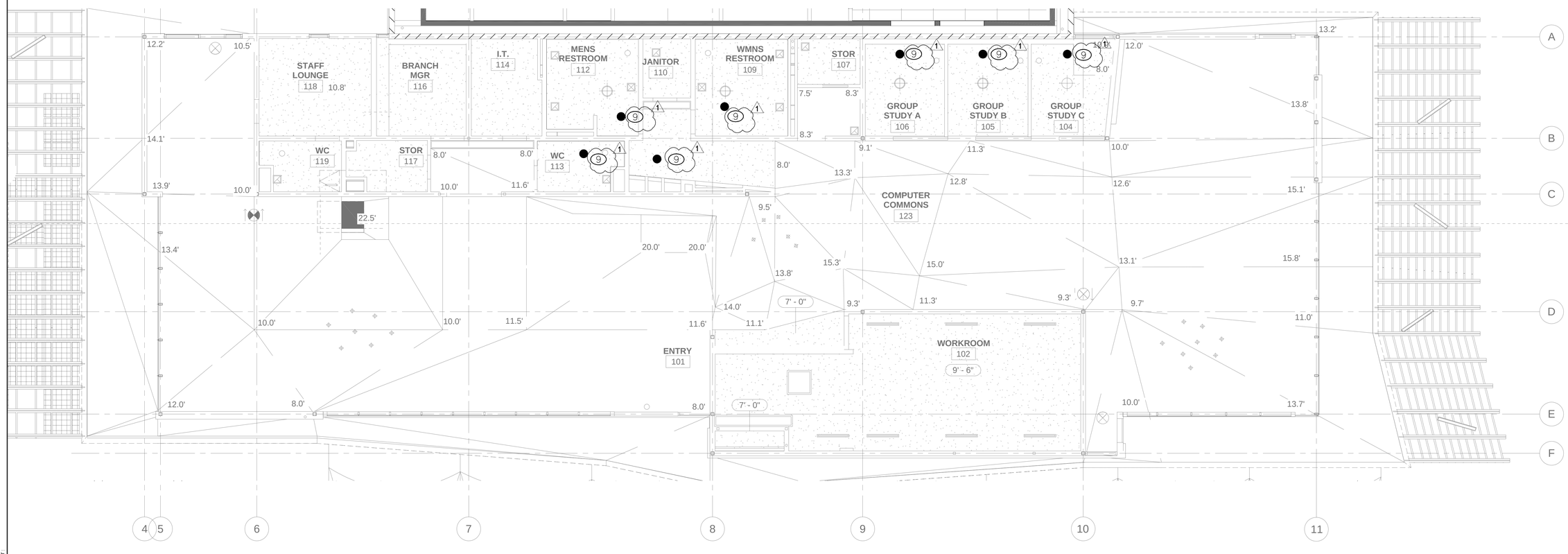
LIBRARY FLOOR PLAN

SCALE: 3/16" = 1'

1

AV EQUIPMENT NOTES:

1. EQUIPMENT RACK
   - *PRESENTATION SWITCHER
   - *POWER AMPLIFIER
   - *BLU-RAY/DVD PLAYER WITH TUNER
   - *CONTROL SYSTEM
   - *ASSISTIVE LISTENING SYSTEM
   - *WIRELESS MICROPHONE SYSTEM
2. LECTERN
   - *GOOSENECK MICROPHONE
   - *AV INPUT PANEL
3. AV WALL BOX
   - *(4) MIC INPUTS
   - *(1) LINE OUTPUT
   - *(1) DIGITAL AND ANALOG VIDEO INPUT
4. DOCKABLE TOUCH PANEL
5. 16:10 94" DIAG. RECESSED PROJECTION SCREEN
6. WXGA VIDEO PROJECTOR (MOUNTED ON WALL SEE DETAIL 1 ON AV6.01)
7. IN-WALL SPEAKER FOR SOUND REINFORCEMENT AND PAGING SYSTEMS
8. IN-WALL PAGING SPEAKER
9. RECESSED CEILING SPEAKER FOR PAGING



LIBRARY REFLECTED CEILING PLAN

SCALE: 3/16" = 1'

2

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02/21/2012

DRAWING NO. **6693**

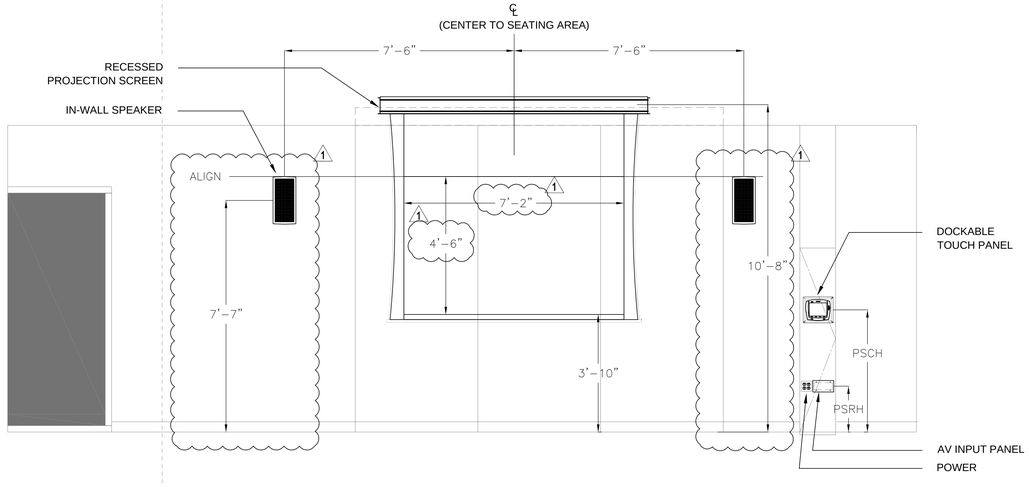
SHEET TITLE
LIBRARY
EQUIPMENT PLAN

SHEET NO.
AV1.02A

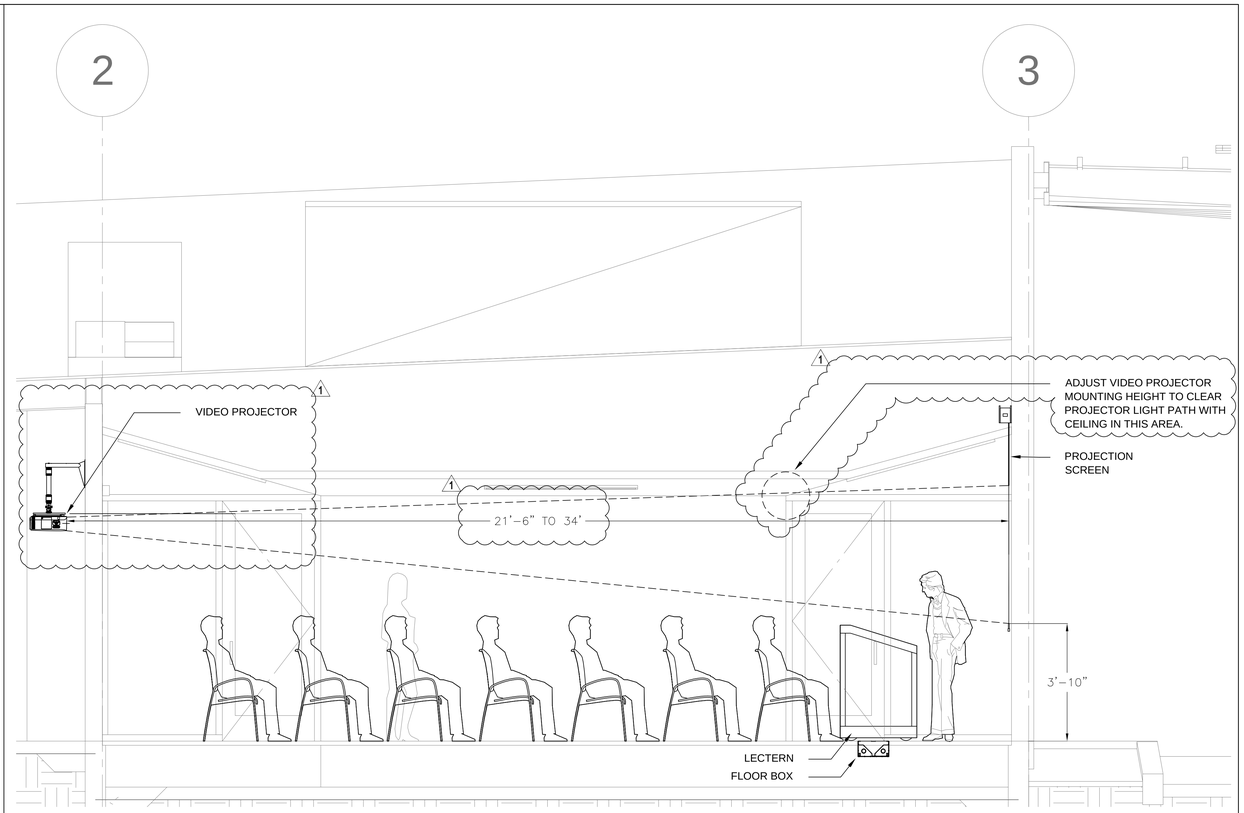
SHEET OF

DWG NO. -

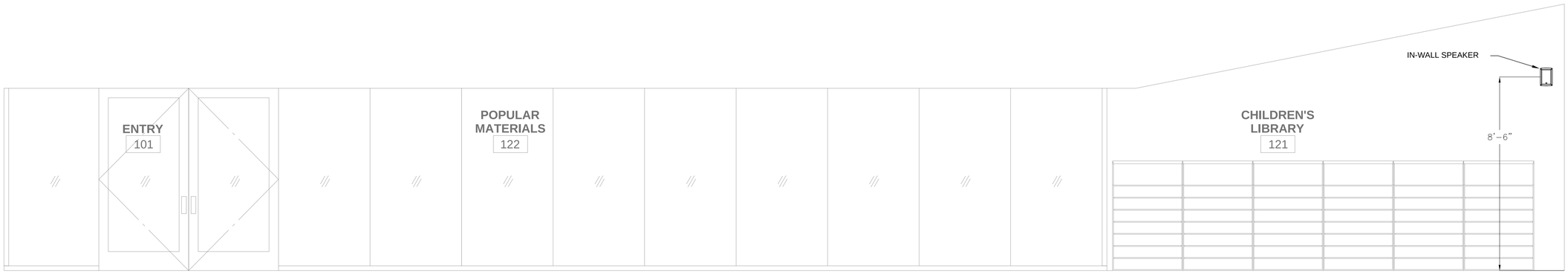
TITLE OF PROJECT



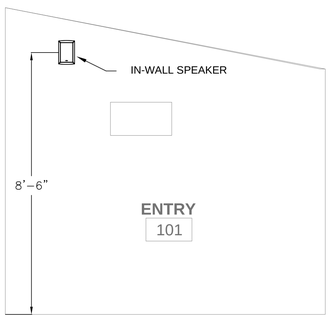
COMMUNITY ROOM ELEVATION | SCALE: 1/2" = 1' | 1



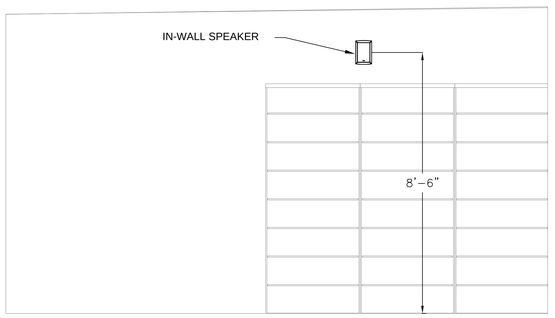
COMMUNITY ROOM SECTION | SCALE: 1/2" = 1' | 2



LIBRARY ELEVATION | SCALE: 1/2" = 1' | 3



LIBRARY ELEVATION | SCALE: 1/2" = 1' | 4



LIBRARY ELEVATION | SCALE: 1/2" = 1' | 5

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DRAWING NO. **6693**

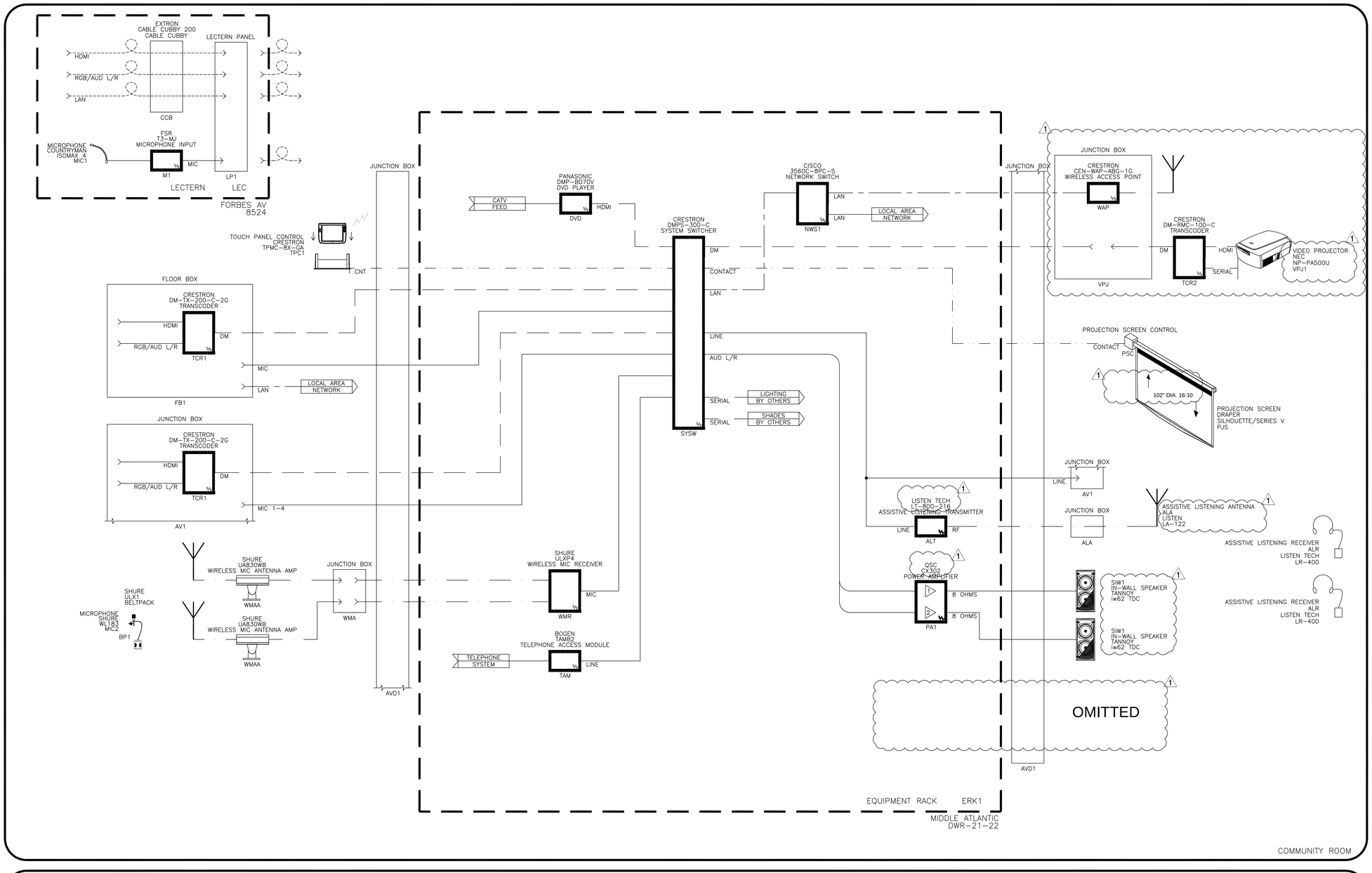
SHEET TITLE
SECTIONS AND ELEVATIONS

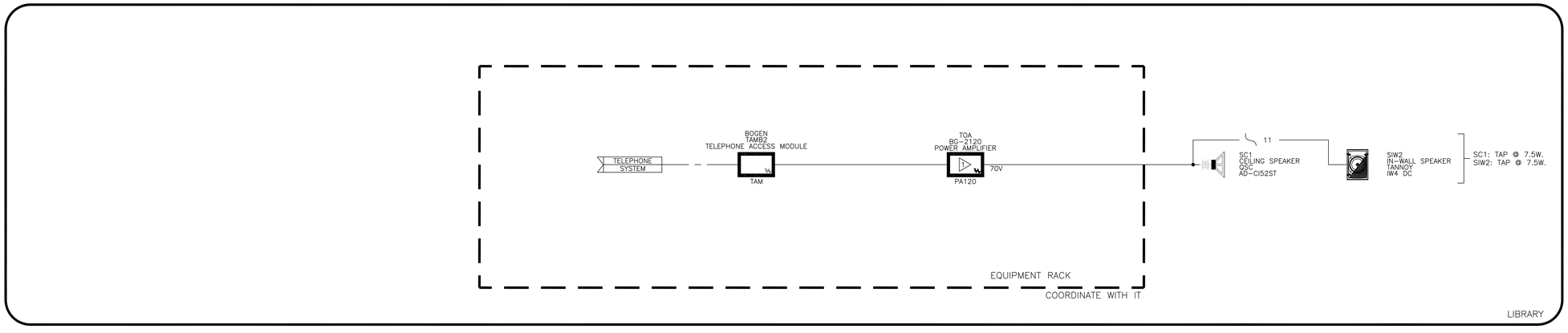
SHEET NO.
AV2.51

SHEET OF

DWG NO. -

TITLE OF PROJECT





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DRAWING NO. **6693**

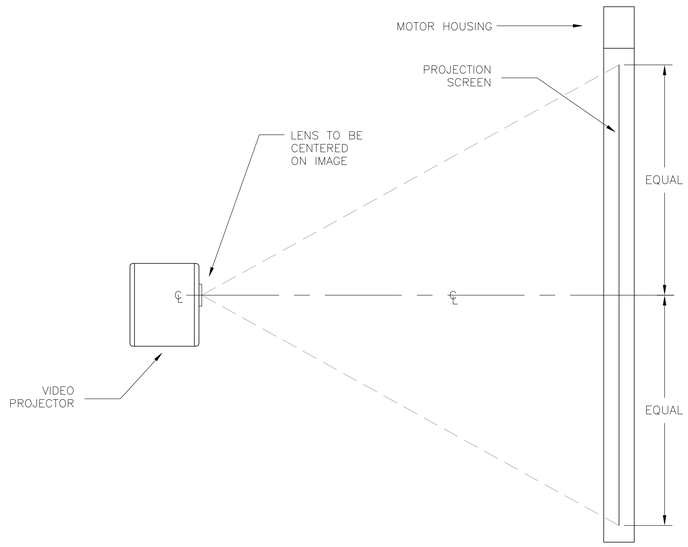
SHEET TITLE
SCHEMATIC DIAGRAM

SHEET NO.
AV3.01

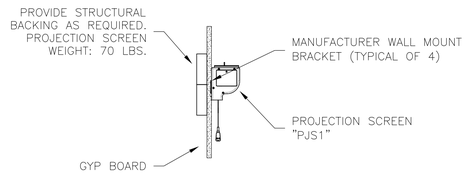
SHEET OF

DWG. NO. -

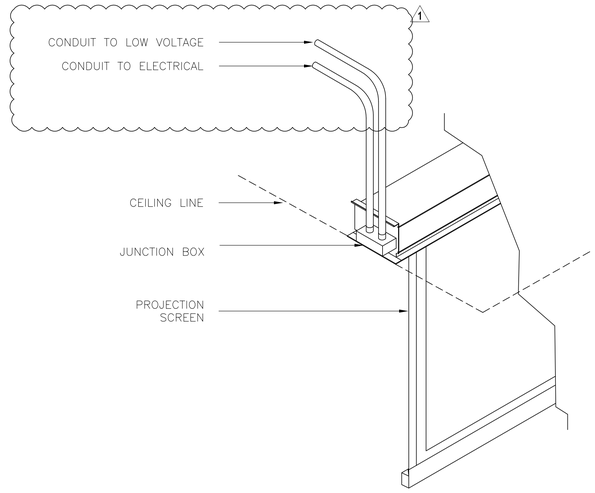
TITLE OF PROJECT:



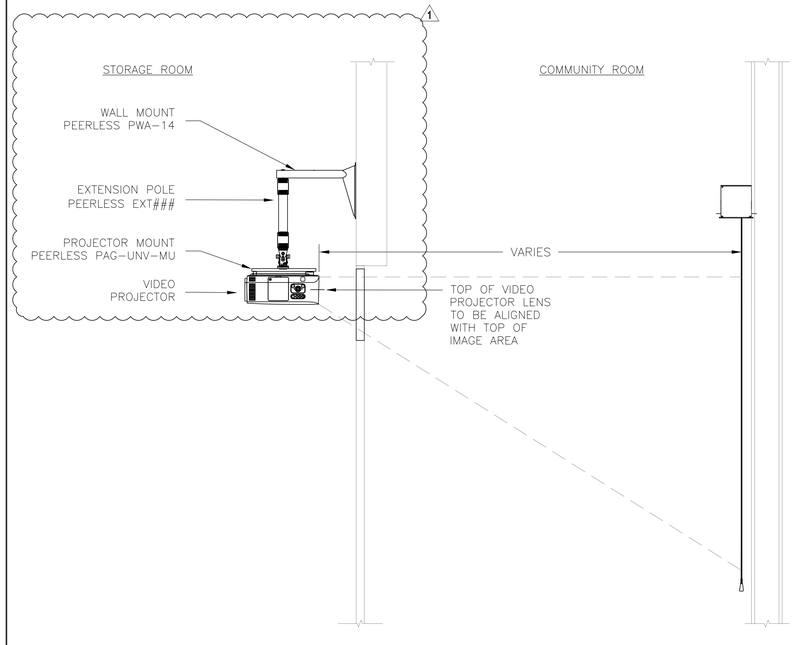
PLAN VIEW



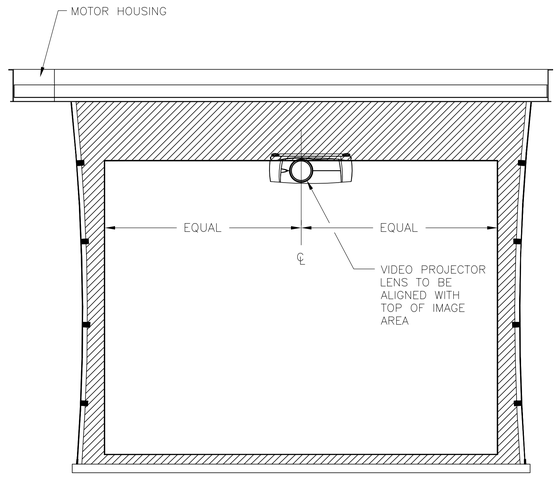
NOTE:
REFER TO STRUCTURAL DRAWINGS FOR LOADING LIMITATIONS TO STRUCTURE, GENERIC DETAILS, AND ANCHOR REQUIREMENTS. ALSO, REFER TO STRUCTURAL DRAWINGS FOR MINIMUM SEISMIC REQUIREMENTS FOR CONFORMANCE WITH THE CODE, TYP.



TYPICAL PROJECTION SCREEN DETAIL — SCALE: NTS — 2

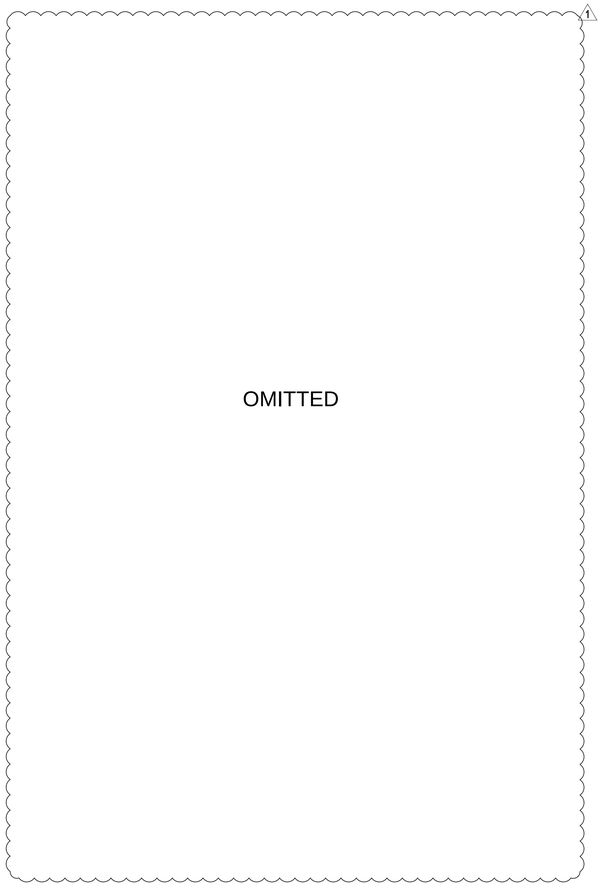


SIDE VIEW



FRONT VIEW

TYPICAL PROJECTION SCREEN AND VIDEO PROJECTOR DETAIL — SCALE: NTS — 1



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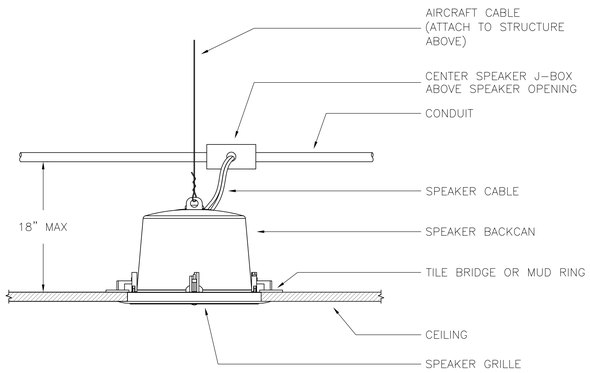
SHEET TITLE
AV DETAILS

SHEET NO.
AV6.01

SHEET OF

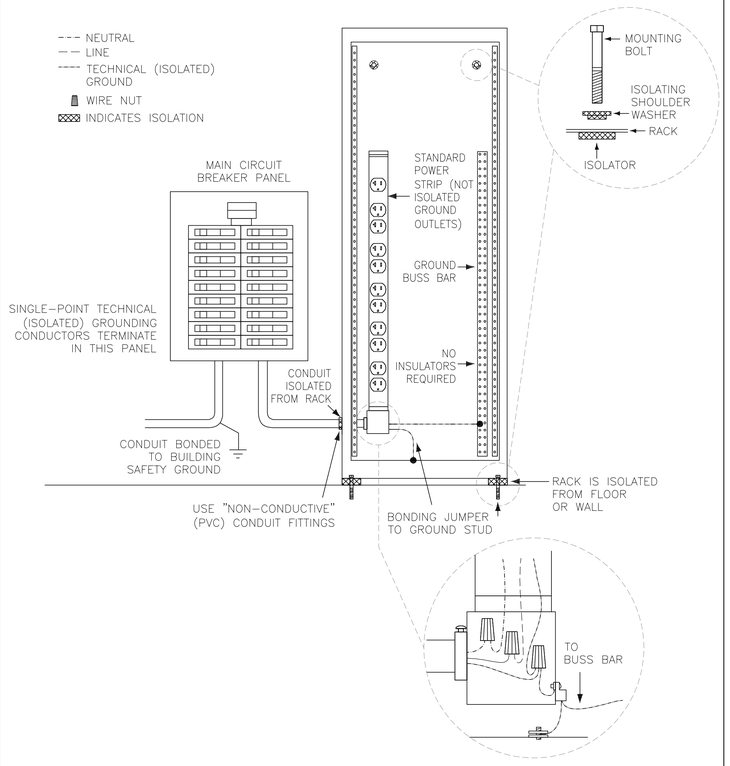
DWG NO. -

TITLE OF PROJECT:

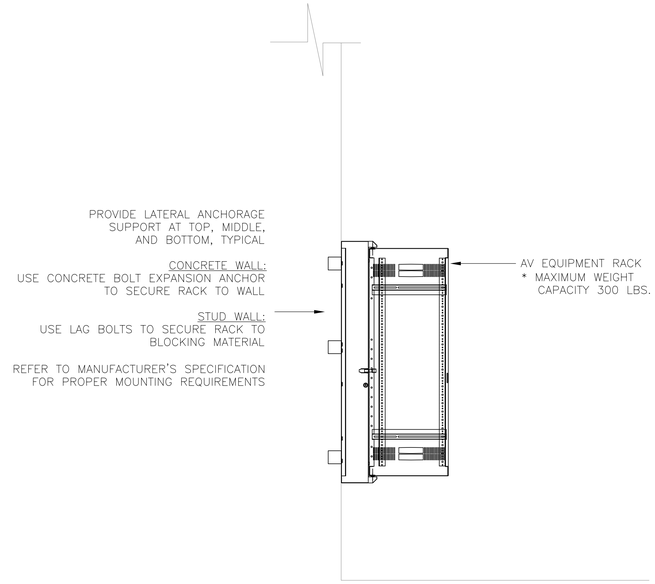


NOTE:
-SPEAKER & SPEAKER GRILLE BY AV CONTRACTOR
-CONDUIT BY E.C.

TYPICAL CEILING SPEAKER DETAIL — SCALE: NTS — 1



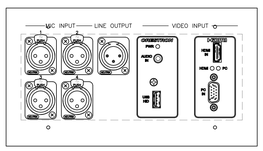
TYPICAL GROUNDING DETAIL — SCALE: NTS — 2



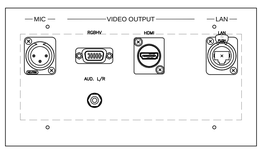
NOTE:

THESE PLANS ARE CONCEPTUAL ONLY. THEY MUST BE FULLY ENGINEERED BY A LICENSED STRUCTURAL ENGINEER.

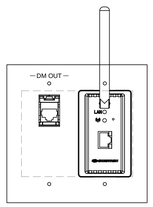
TYPICAL WALL MOUNTED EQUIPMENT RACK DETAIL — SCALE: NTS — 3



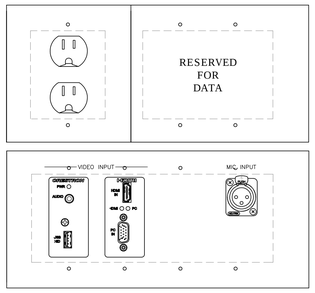
"AV1" PANEL LAYOUT — SCALE: 6"=1' — 5



LECTERN PANEL "LP1" PANEL LAYOUT — SCALE: 6"=1' — 7



VIDEO PROJECTOR "VPJ" PANEL LAYOUT — SCALE: 6"=1' — 9



FLOOR BOX "FB1" PANEL LAYOUT — SCALE: 6"=1' — 6

WIRELESS MIC ANTENNA "WMA" PANEL LAYOUT — SCALE: 6"=1' — 8

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Architecture Services Manager

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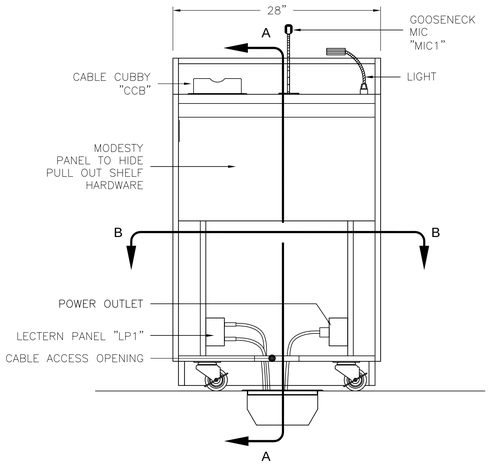
DRAWING NO. **6693**

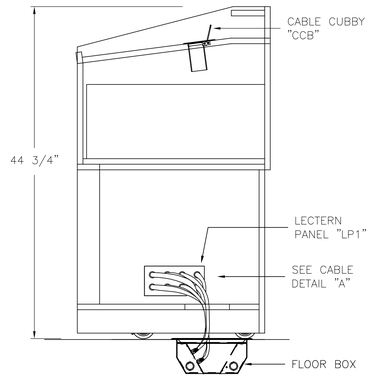
SHEET TITLE
AV DETAILS

SHEET NO.
AV6.02

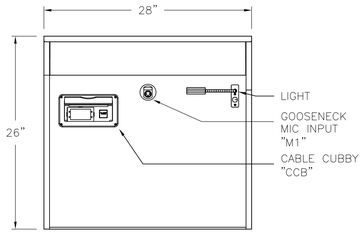
SHEET OF
DWG NO. -
TITLE OF PROJECT



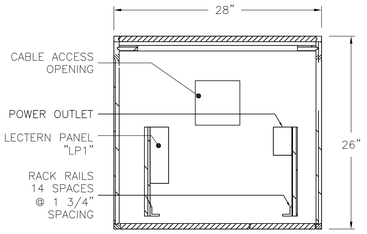
FRONT ELEVATION



A–A SECTION

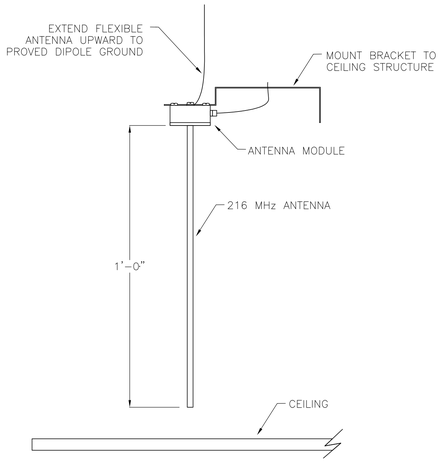


PLAN VIEW

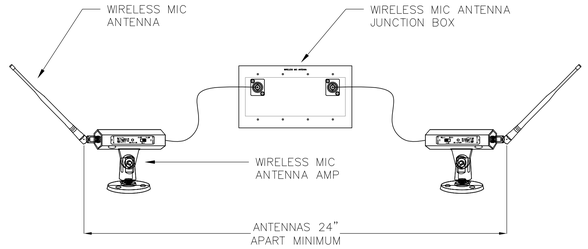


B–B SECTION VIEW

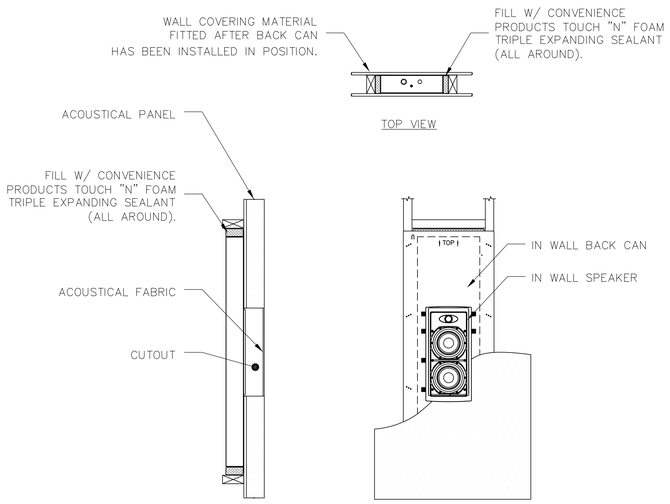
TYPICAL LECTERN DETAIL | SCALE: NTS | 1



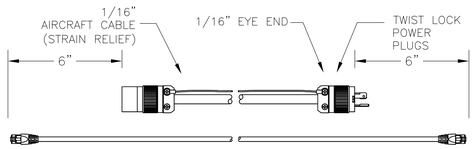
TYPICAL ASSISTIVE LISTENING ANTENNA MOUNTING DETAIL | SCALE: NTS | 2



TYPICAL WIRELESS MIC ANTENNA MOUNTING DETAIL | SCALE: NTS | 3



TYPICAL IN-WALL SPEAKER DETAIL | SCALE: NTS | 4



NOTE:
LOW VOLTAGE CABLE TO BE 12" LONGER THAN POWER CABLE.

TYPICAL LECTERN CABLE DETAIL | SCALE: NTS | A

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architecture@smgov.net

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SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 __

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ADDENDUM 2

DATE
02/21/2012

DRAWING NO. **6693**

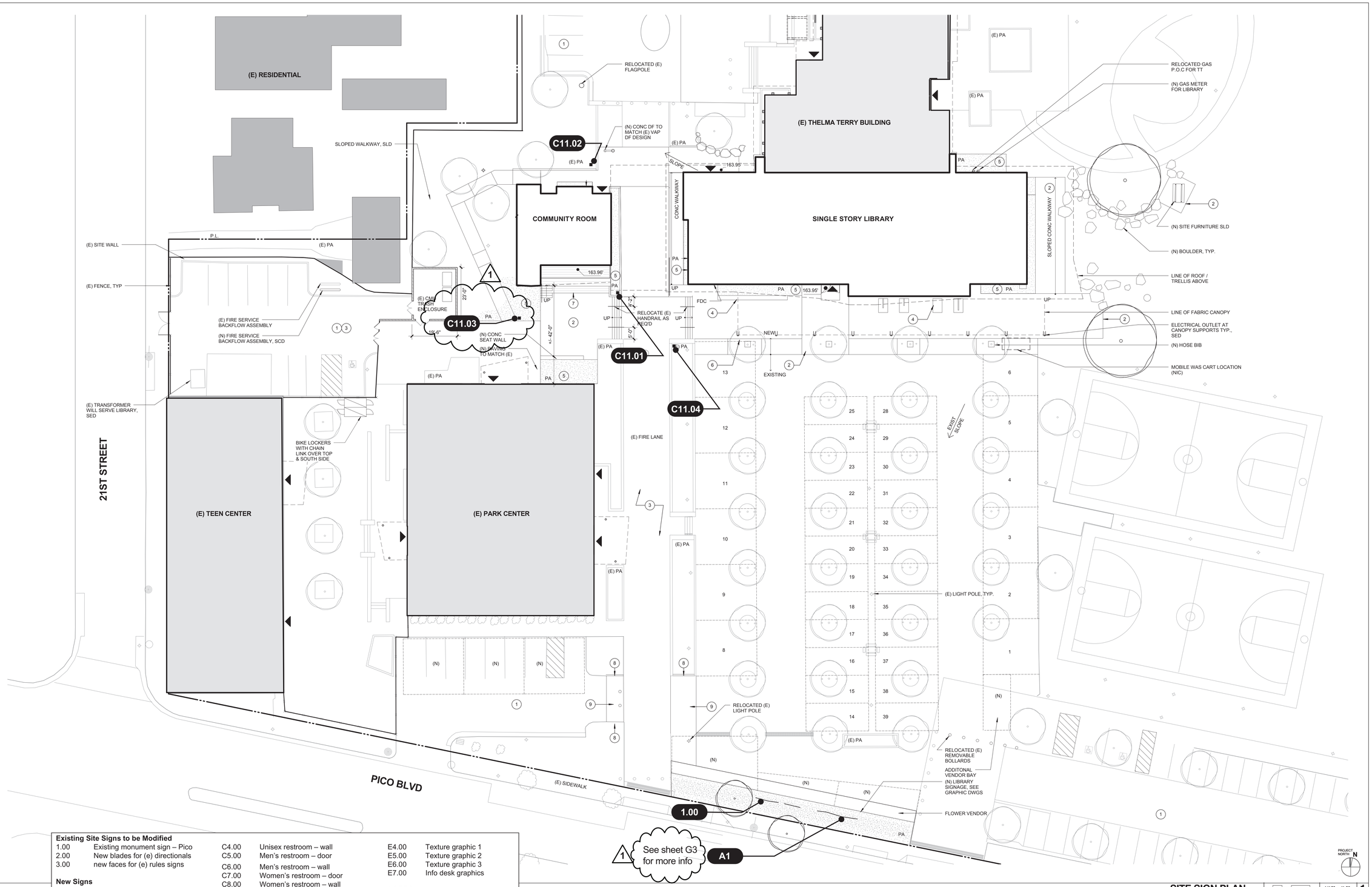
SHEET TITLE
AV DETAILS

SHEET NO.
AV6.03

SHEET OF

DWG. NO. -

TITLE OF PROJECT:



Existing Site Signs to be Modified

1.00	Existing monument sign – Pico
2.00	New blades for (e) directionals
3.00	new faces for (e) rules signs

New Signs

Identity

A1.00	Library monument sign
A2.00	Main building id – south
A3.00	Community building id – south
A4.00	Main building id – north
A5.00	Community building id – north
A6.00	Address
A7.00	Book drop id – exterior
A8.00	Book drop id – interior
A9.00	Check out alcove sign

Directional

B1.00	Exterior library directional – fire lane
B2.00	Exterior library directional – park
B3.00	Restroom directional

Code

C1.00	Tactile exit sign
C2.00	Tactile room sign
C3.00	Unisex restroom – door
C4.00	Unisex restroom – wall
C5.00	Men's restroom – door
C6.00	Men's restroom – wall
C7.00	Women's restroom – door
C8.00	Women's restroom – wall
C9.00	ISA symbol – glass
C10.00	ISA symbol – plaque
C11.00	ISA directional

Miscellaneous

D1.00	Library hours
D2.00	Library rules
D3.00	Stack id holder
D4.00	No smokin
D5.00	Community room art dedication plaque
D6.00	Floor Information holder
D7.00	Desk information holder
D8.00	Door information holder

Graphics

E1.00	Skylight texture graphic
E2.00	Study room back wall graphic
E3.00	Computer desk graphic
E4.00	Texture graphic 1
E5.00	Texture graphic 2
E6.00	Texture graphic 3
E7.00	Info desk graphics

NOTES:

1. Sign Type B2 not shown on plans. Locations TBD. See Sheet G4 for more info .

2. Sign type D3 not shown on plans. See Sheet G6 for more info.

3. Sign type 2.00 not shown on plans. See Sheet G4 for more info.

4. Sign type 3.00 not shown on plans. See Sheet G4 for more info.

5. Sign types D6, D7 & D8 not shown on plans. See Sheet Gx for more info.

SITE SIGN PLAN 0 4' 8' 16' 1/16" = 1'-0" 1

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APPROVED BY : Miriam Mulder, Architecture Services Manager DATE : 20

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DATE
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DRAWING NO. **6693**

SHEET TITLE

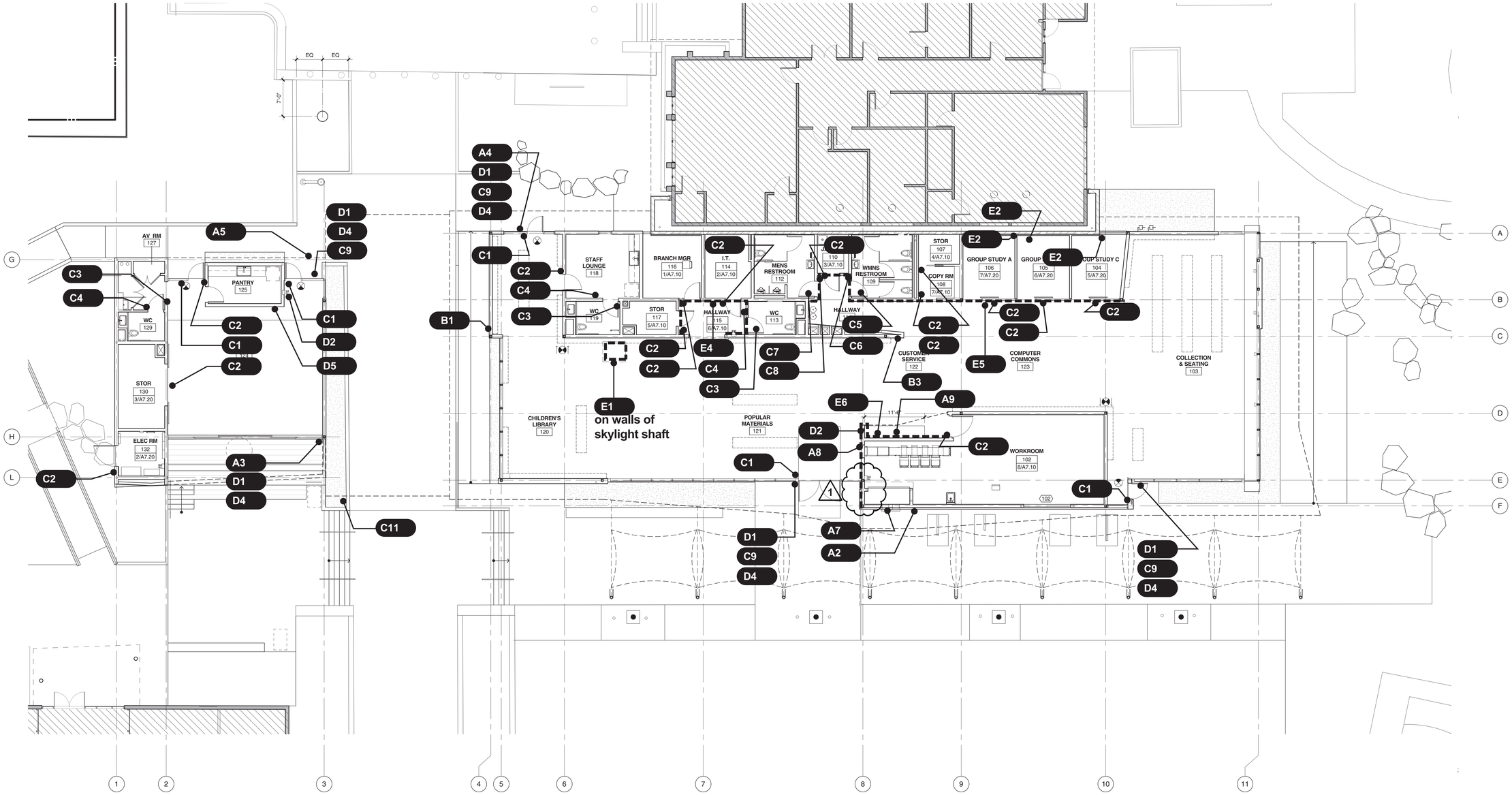
SITE SIGN PLAN

SHEET NO.
G1

SHEET OF

DWG NO. - -

TITLE OF PROJECT :



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4. Sign type 3.00 not shown on plans. See Sheet G4 for more info.

5. Sign types D6, D7 & D8 not shown on plans. See Sheet Gx for more info.

PROJECT NORTH
GRID NORTH
N

SIGN PLAN 1

0 2' 4' 8'

1/8" = 1'-0"

1

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DRAWING NO. **6693**

SHEET TITLE
SIGN PLAN

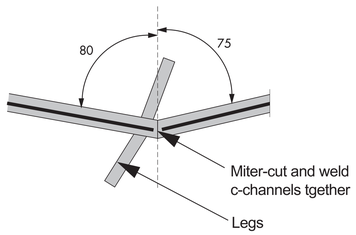
SHEET NO.
G2

SIGN PLAN

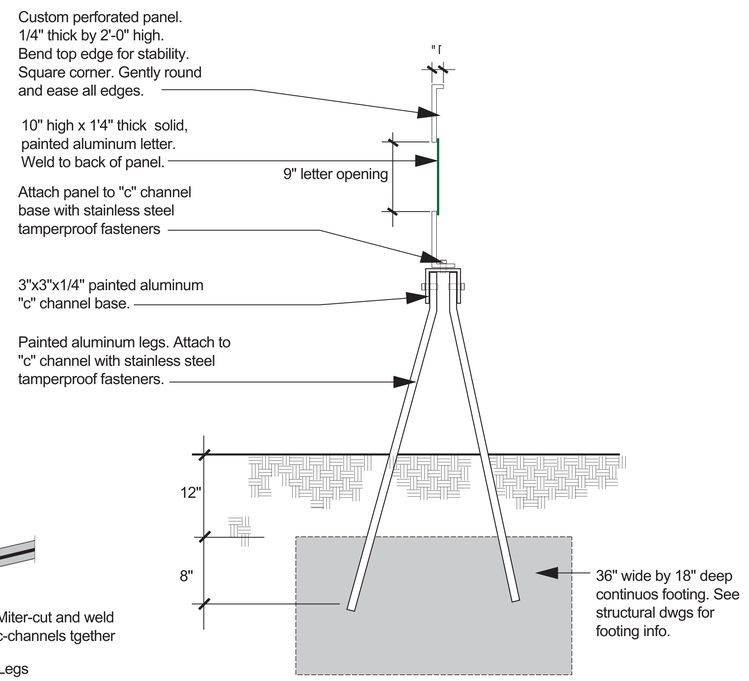
SHEET OF

DWG NO. -

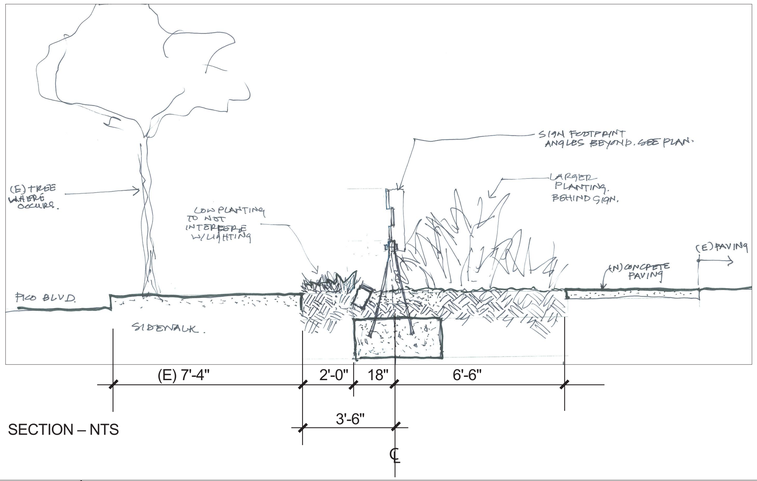
TITLE OF PROJECT :



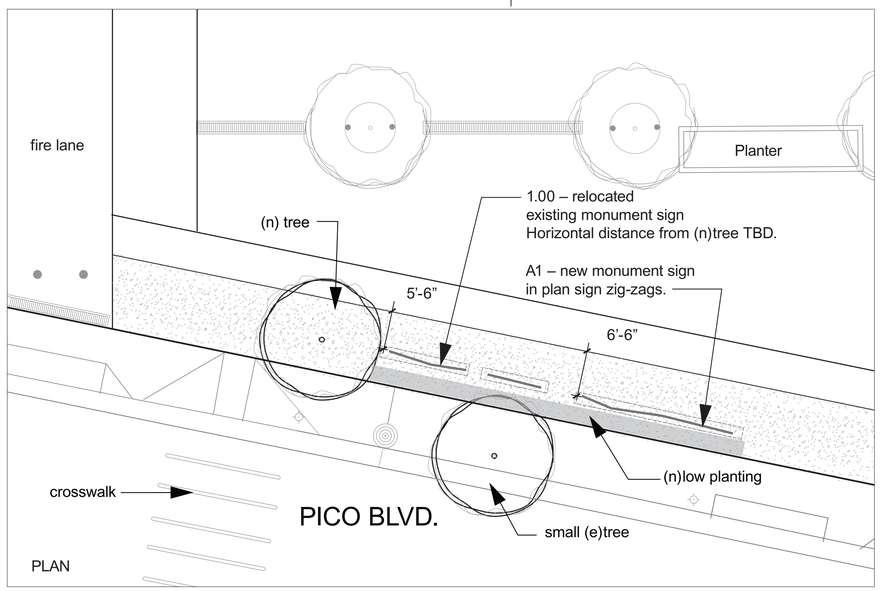
DETAIL



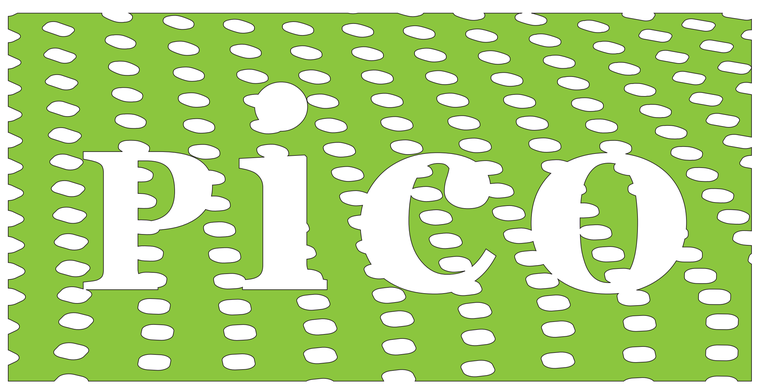
SECTION



SECTION – NTS

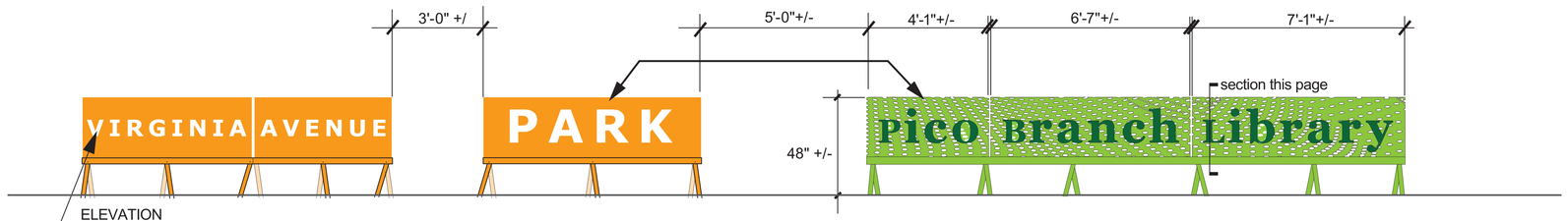


PLAN



Typical panel with out letters

Existing sign



ELEVATION

Existing monument. Relocate along Pico in new reconfigured planter. Final location TBD. Coordinate with Landscape. Repaint (original color) and repair as needed before reinstalling sign.

New library monument sign.1/4" thick painted aluminum panels with custom laser cut perforation pattern. Perforations range in size. Open surface density TBD. Panels zig-zag. Approx total length is 18'-0" +/-.

Cut letters (painted aluminum) weld to back of panels. Paint all faces and edges of letters.

Paint all surfaces, all sides and all edges. Paint all stainless steel fasteners.
Each pair of metal legs is bent at a different angle.

Colors: 1 custom color for panel, legs and fasteners.1 custom color for letters.

1 SIGN TYPE A1.00: ENLARGED PLAN, ELEVATIONS AND DETAILS.

NTS

ELEVATIONS & DETAILS

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DATE
02/21/2012

DRAWING NO. **6693**

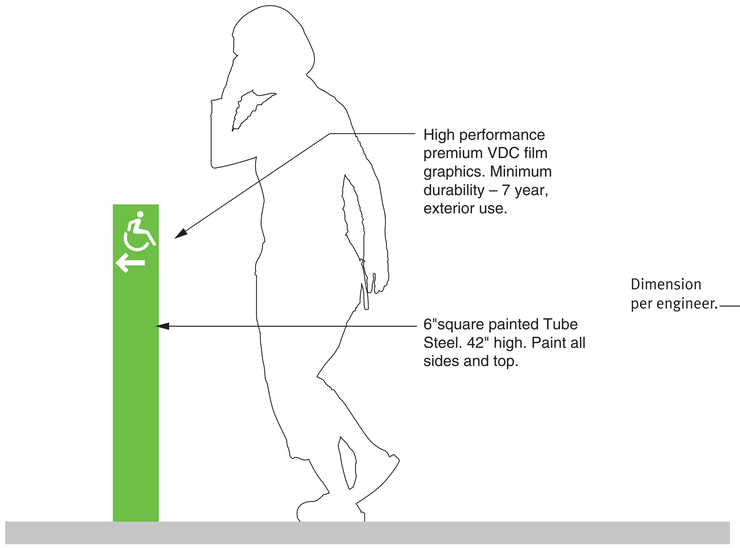
SHEET TITLE
ELEVATION & DETAILS

SHEET NO. 1 **G3**

SHEET OF

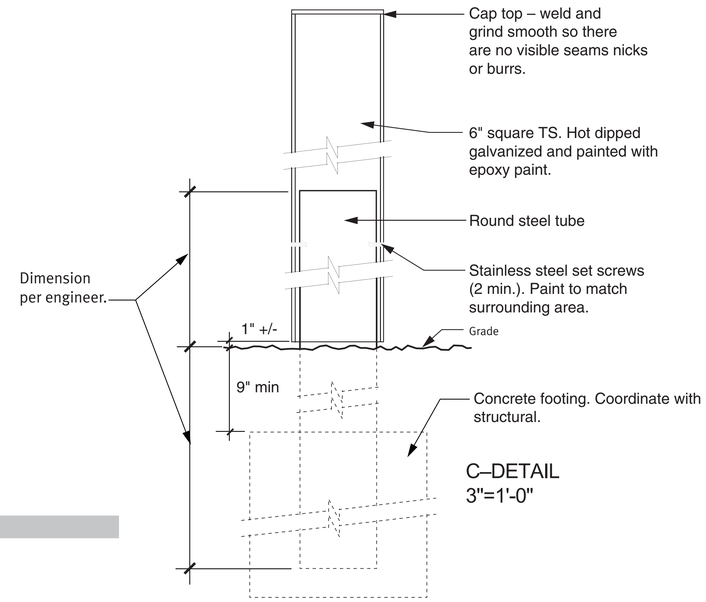
DWG NO. -

TITLE OF PROJECT



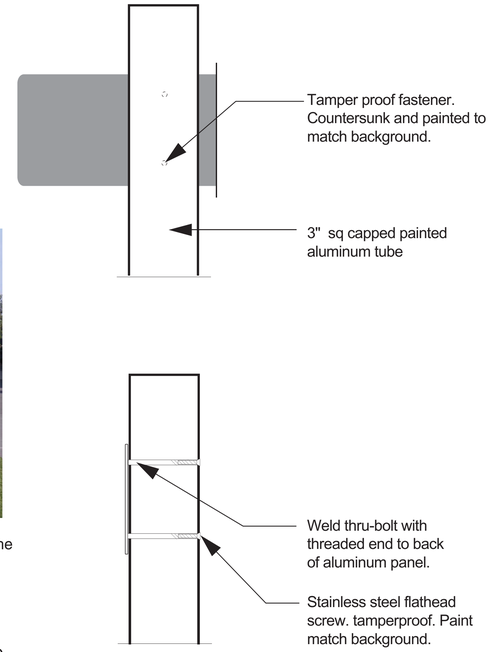
4 SIGN TYPE C11: ISA DIRECTIONAL

1 1/2"=1'-0"

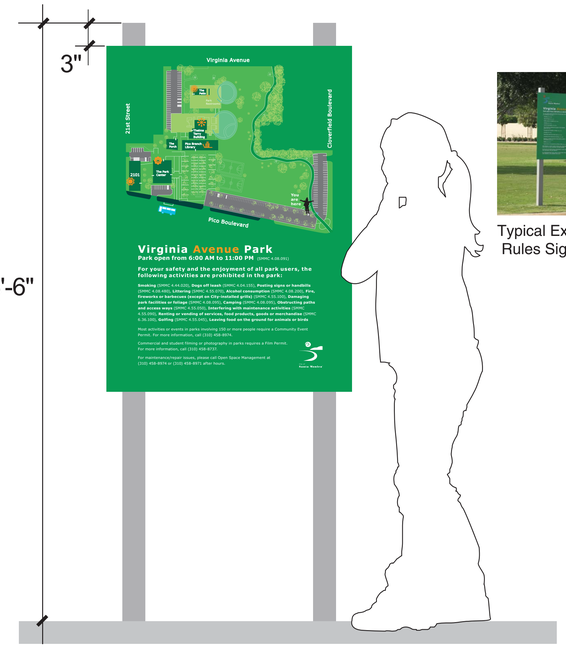


C–DETAIL
3"=1'-0"

Front and back view of on of the existing directionals.
NOTE: Current configuration may hve changed since photograph was taken. Final configuration with additional Library and Annex blades TBD. The final order of the blades TBD.



B–BACK VIEW @ BOLTS
3"=1'-0"



Typical Existing Rules Sign

Replace the 4 existing rules panels with new panels incorporating a "you are here" map.

Existing panels are 32 in by 42 in. New panels may increase in height to 45".

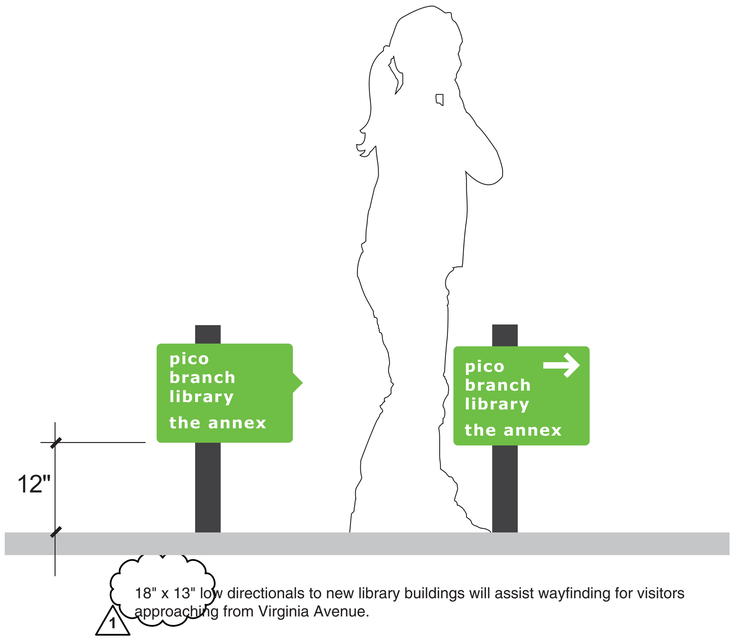
Refurbish (clean, sand, patch, paint, replace attachments if needed) existing support posts.

New panels may be:
1. Painted 1/8" aluminum with direct digitally printed graphics. 1 custom color plus full continuous color graphics. Matte UV and graffitti coating.
2. painted 1/8" aluminum with digital vinyl inkjet printout. Exterior grade with Matte UV and graffitti coating. 1 custom color plus full continuous color graphics.
3. Exterior grade high pressure laminate panel (thickness TBD) such as Folia™ or equal. Waterproof, UV, graffiti, burn and corrosion resistant.

Graphics shown are not final.

3 SIGN TYPE 3.00: NEW FACES FOR EXISTING RULES SIGNS

1 1/2"=1'-0"



18" x 13" low directionals to new library buildings will assist wayfinding for visitors approaching from Virginia Avenue.

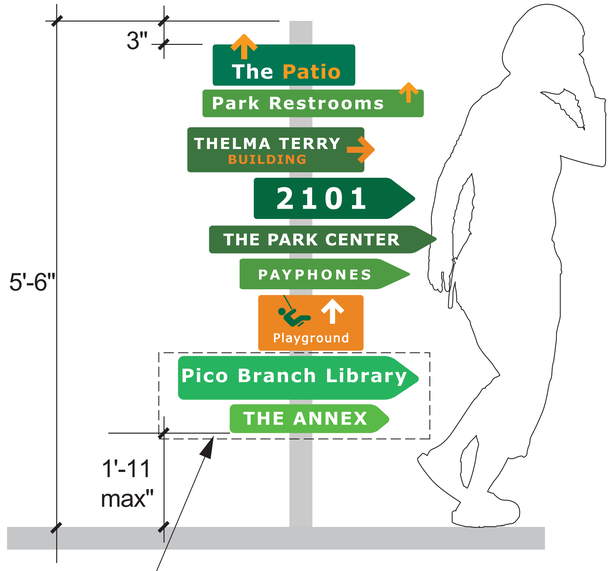
1/8" thick painted aluminum panels. Paint all faces and edges of panels. Silkscreened copy and art. Radiused corners and eased edges all panels. Allow for 3 custom colors TBD. Attach to 3" sq capped painted aluminum tube. See detail 1B – Back view at bolts, for attachment info. Footings required. Coordinate with structural.

Locate in planters. Final locations TBD.

Quantity: 5

2 SIGN TYPE B2: EXTERIOR LIBRARY DIRECTIONAL

1 1/2"=1'-0"



Add 2 new painted aluminum panels, 1/8" thick to the 2 existing directionals. Paint all faces and edges of panels. Silkscreened copy and art. Radiused corners and eased edges all panels. Allow 3 custom colors.

NOTE:
1. Scope of work includes refurbishing (cleaning, sanding, patching, painting, replacing attachments, changing order of blades) existing plaques.

2. The 2 existing directionals have different configurations. New blades will be different at each location.

1 SIGN TYPE 2.00: ADD BLADES TO EXISTING DIRECTIONALS

NTS

ELEVATIONS & DETAILS

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DRAWING NO. **6693**

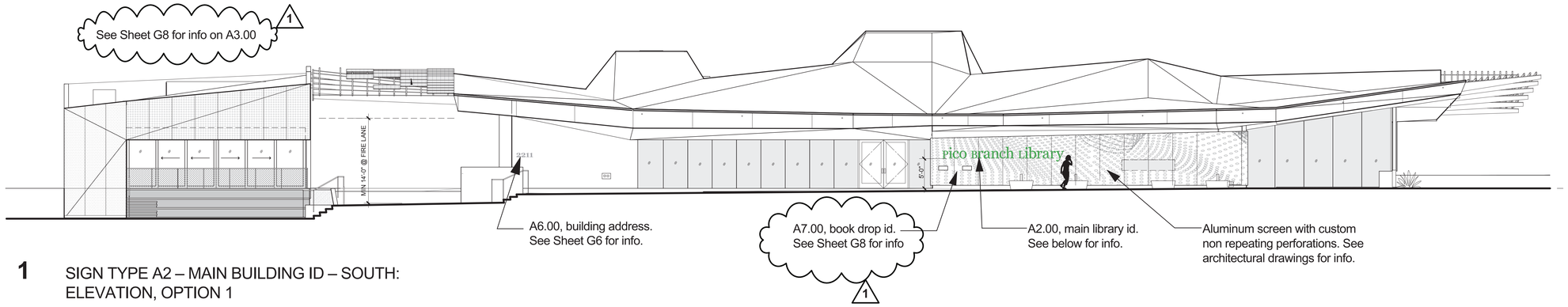
SHEET TITLE
ELEVATION & DETAILS

SHEET NO. **G4**

SHEET OF

DWG NO. -

TITLE OF PROJECT:

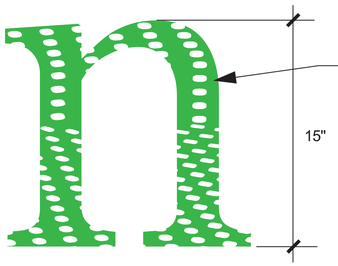


1 SIGN TYPE A2 – MAIN BUILDING ID – SOUTH:
ELEVATION, OPTION 1

1/8"=1'-0"

pico branch library

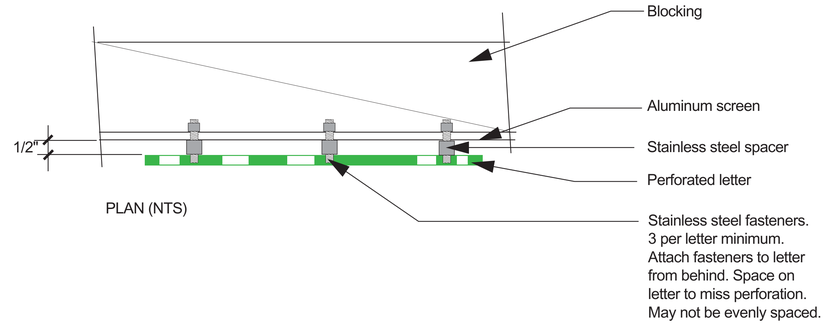
1 1/2"=1'-0"



3"=1'-0"

Painted alumium letters with custom laser cut perforations. 1/4" thick.
Each letter one piece construction. 1 custom color.

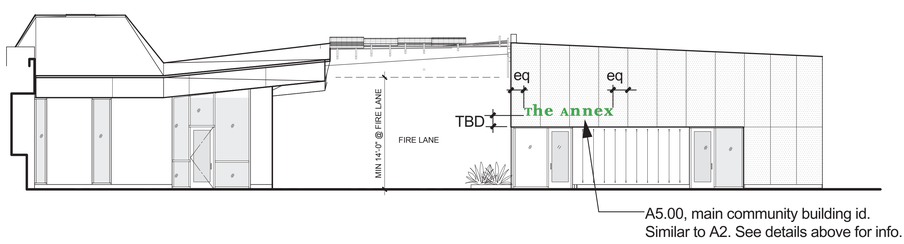
NOTE: Shape, pattern and size of custom perforated slots TBD.

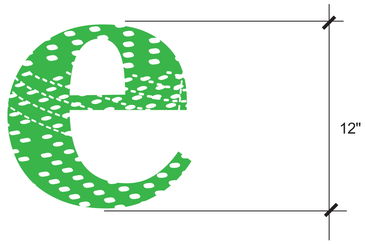


PLAN (NTS)

2 SIGN TYPE A2 – MAIN BUILDING ID – SOUTH:
OPTION 1 DETAIL

Scale as shown





NOTE: Shape, pattern and size of custom perforated slots TBD.
Perforation varies per layer.

1

3 SIGN TYPE A5 – COMMUNITY BUILDING ID – NORTH:
ELEVATION, OPTION 1

1/8"=1'-0"

ELEVATIONS & DETAILS

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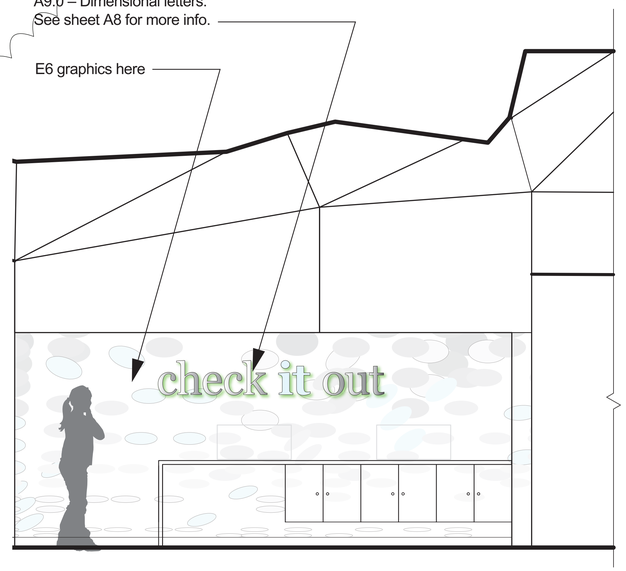
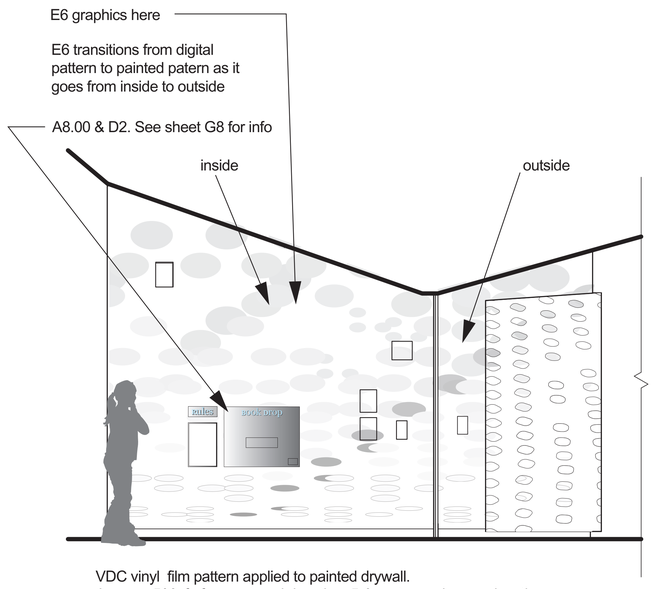
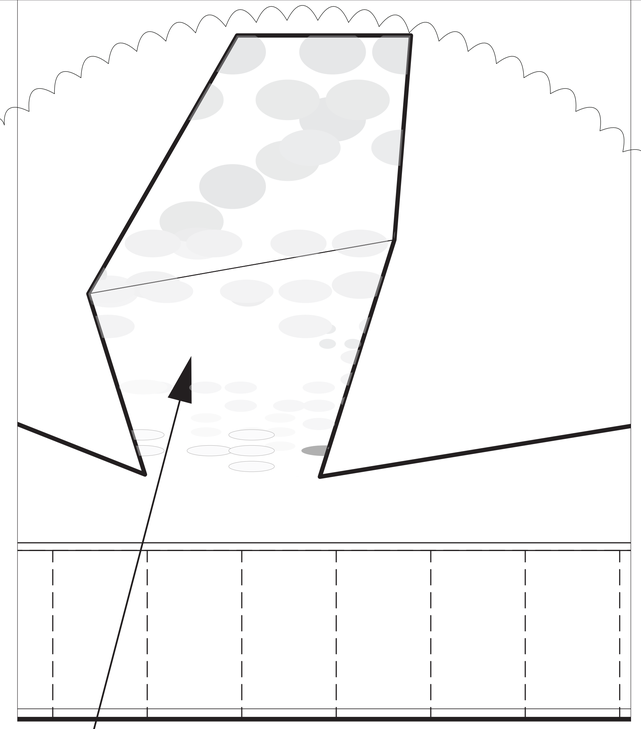
DRAWING NO. **6693**

SHEET TITLE
ELEVATION & DETAILS

SHEET NO. **G5**





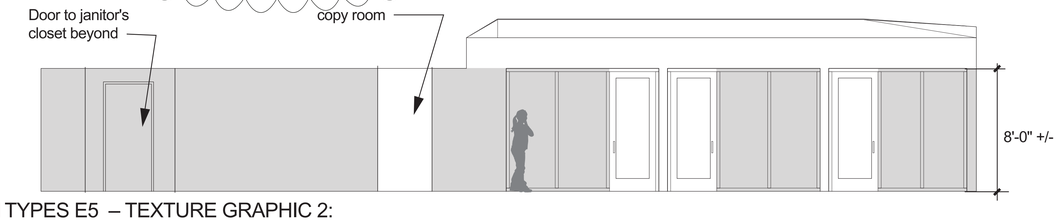


1 SIGN TYPES E1 & E6 (E2, E4 SIM) – WALL TEXTURE GRAPHIC: ELEVATION

1/2"=1'-0"

VDC vinyl film pattern applied to painted drywall.
Assume 500sf of area at each location. 5-6 custom colors per location.
High performance. Final graphic pattern TBD. Pattern different at each location.

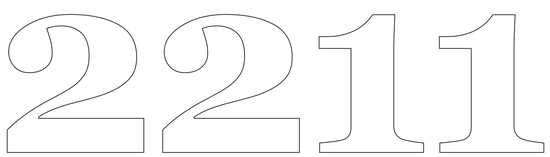
E6 graphics here



2 SIGN TYPES E5 – TEXTURE GRAPHIC 2: ELEVATION

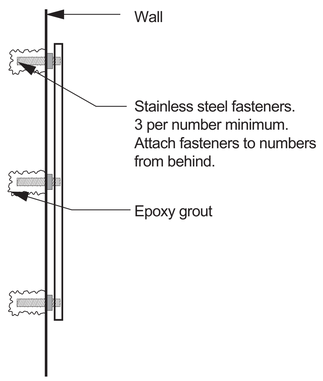
1/4"=1'-0"

High performance vinyl film. No bleed through. 3 custom colors
Assume 650 sf of area.



9" high x 1/4" thick painted aluminum address numbers. See Sheet G5 for location.

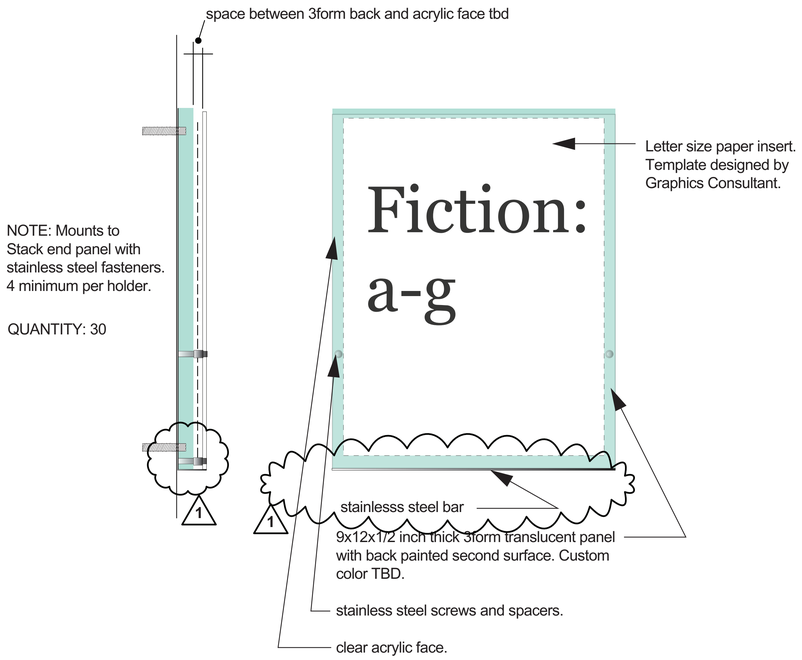
Address to be verified prior to fabrication.



3"=1-0"

3 SIGN TYPES A6 – BUILDING ADDRESS: ELEVATION

Quarter size



4 SIGN TYPES D3 – STACK ID HOLDER: ELEVATION

Half size

ELEVATIONS & DETAILS

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DRAWING NO. **6693**

SHEET TITLE
ELEVATION & DETAILS

SHEET NO. **G6**

SHEET OF

DWG. NO. -

TITLE OF PROJECT

Acrylic plaque with matte face and polished edges

6"w x 4"h x 1/4"thk

Second surface 1 custom background color

Raised characters – 2 custom colors

Raised characters, 1/32"

Grade 2 braille beads, clear, typ.

Attach to wall with VHB tape & silicone.

One piece construction

1 SIGN TYPE C2 – TACTILE ROOM SIGN

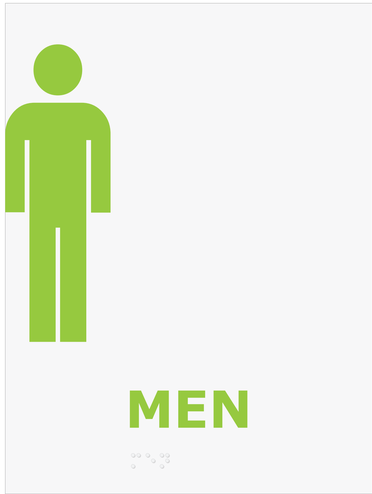
FULL SIZE

See detail 1 this sheet for info

2 SIGN TYPE C1 – TACTILE EXIT SIGN

FULL SIZE

C8



C6

C4

Acrylic plaque with matte face and polished edges

6"w x 8"h x 1/4" thick

Second surface custom background color

Second surface silkscreened graphics (symbol), one custom color

Raised characters – 1 custom color (2 for C4)

Raised characters, 1/32"

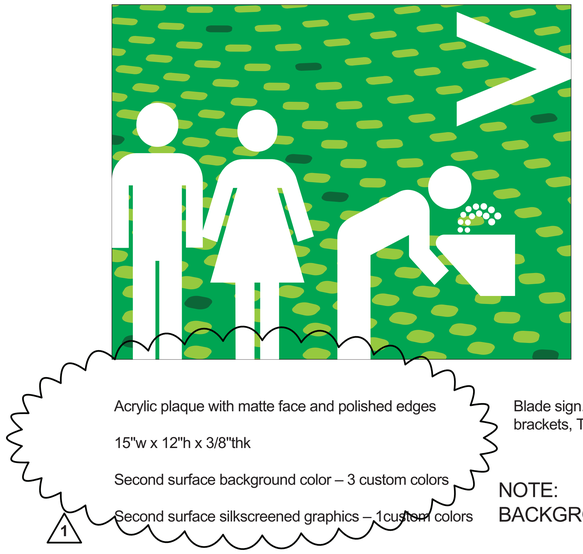
Grade 2 braille beads, clear, typ.

Attach to wall with VHB tape & silicone.

One piece construction

4 SIGN TYPE C4, C6, C8 – RESTROOM WALL SIGN

FULL SIZE



Acrylic plaque with matte face and polished edges

15"w x 12"h x 3/8"thk

Second surface background color – 3 custom colors

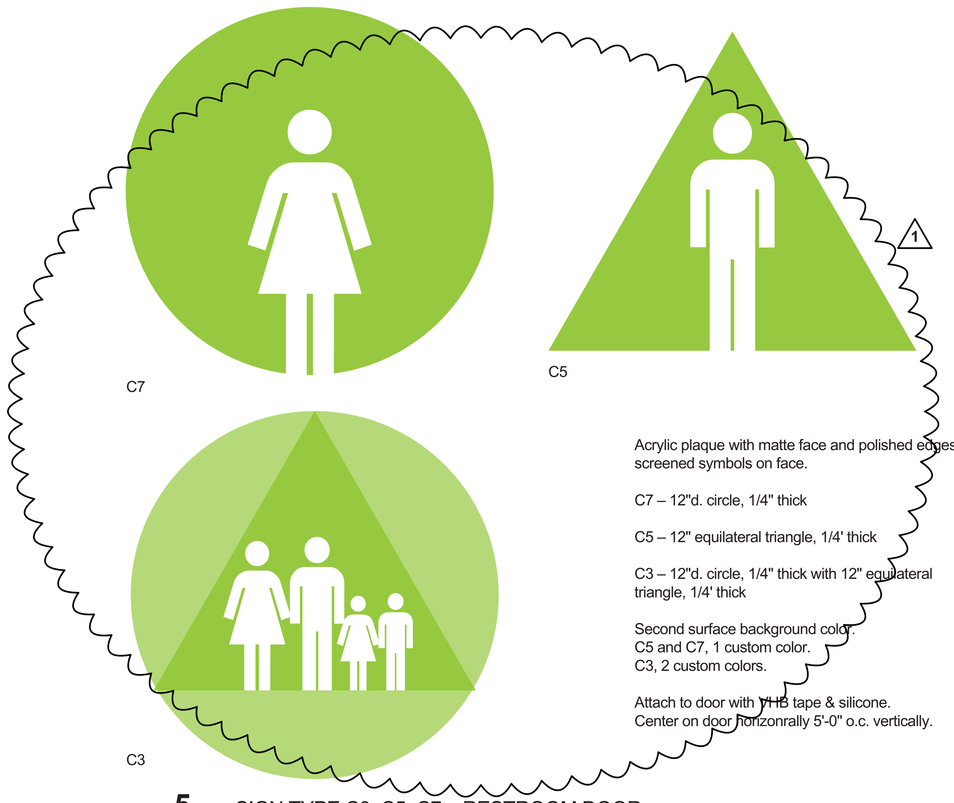
Second surface silkscreened graphics – 1custom colors

Blade sign. Attach to wall with stainless steel brackets, TBD.

NOTE:
BACKGROUND PATTERN DESIGN NOT FINAL

3 SIGN TYPE B3 – RESTROOM DIRECTIONAL

HALF SIZE



C7

C5

C3

Acrylic plaque with matte face and polished edges. Silk-screened symbols on face.

C7 – 12"d. circle, 1/4" thick

C5 – 12" equilateral triangle, 1/4' thick

C3 – 12"d. circle, 1/4" thick with 12" equilateral triangle, 1/4' thick

Second surface background color.
C5 and C7, 1 custom color.
C3, 2 custom colors.

Attach to door with VHB tape & silicone.
Center on door horizonrally 5'-0" o.c. vertically.

5 SIGN TYPE C3, C5, C7 – RESTROOM DOOR

HALF SIZE

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DRAWING NO. **6693**

SHEET TITLE
ELEVATION & DETAILS

SHEET NO. **G7**

SHEET OF

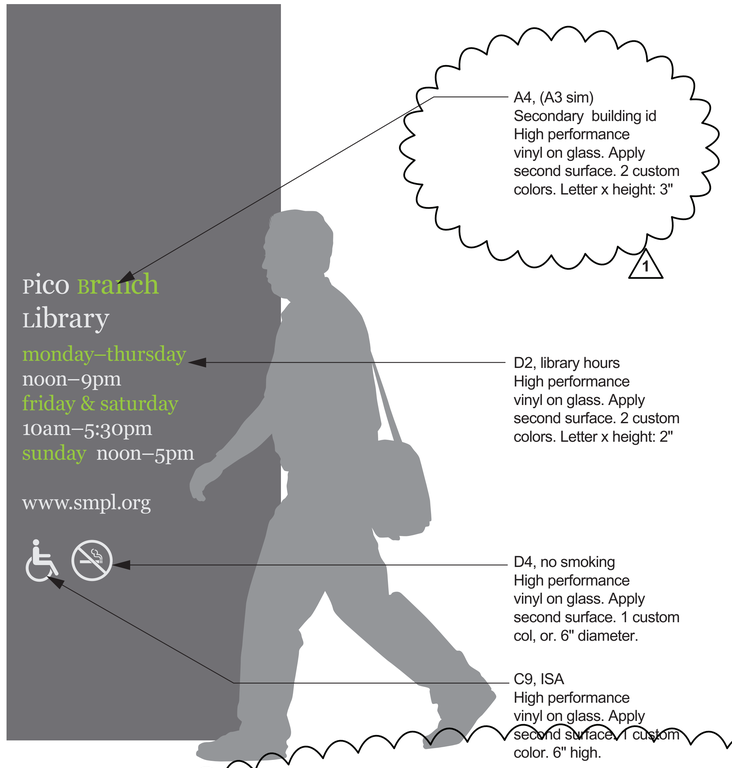
DWG NO. - -

TITLE OF PROJECT:

3form (Chroma reflect with custom color on back of letter) dimensional cut out letters. 9" high and 1" thick. Attach to wall with undersize backer 3/16" thick. Attach with VHB tape and silicone.
2 custom colors.

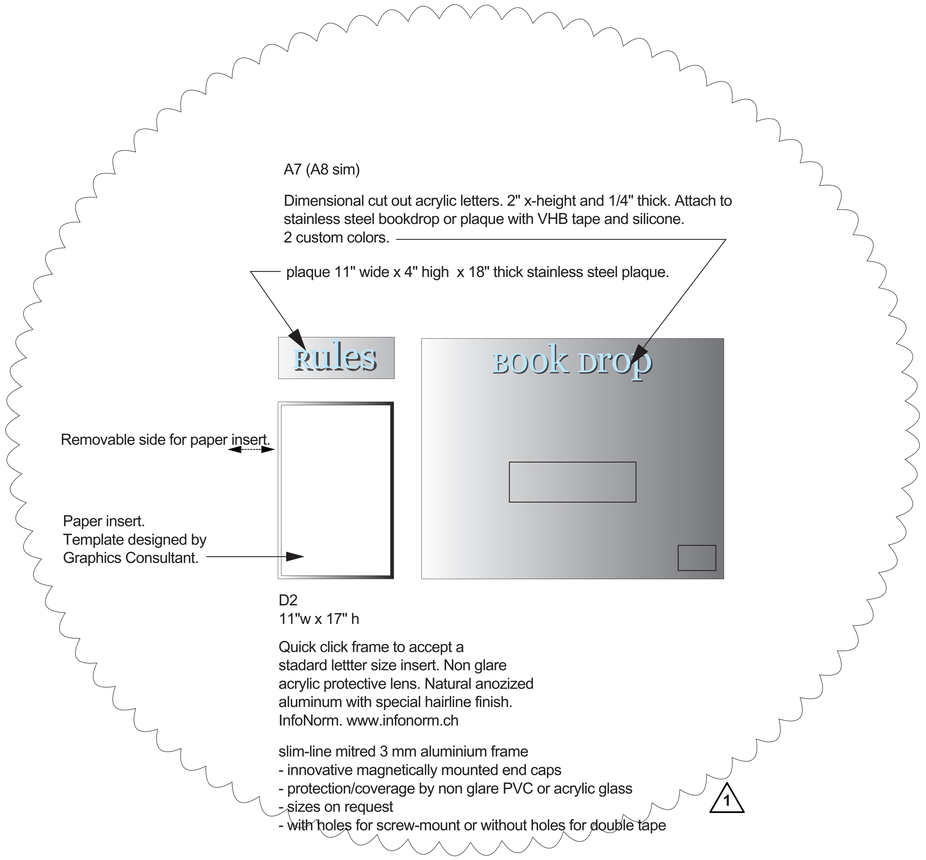
1 SIGN TYPES A9 – SELF CHECK OUT ID

1/4"=1'-0"



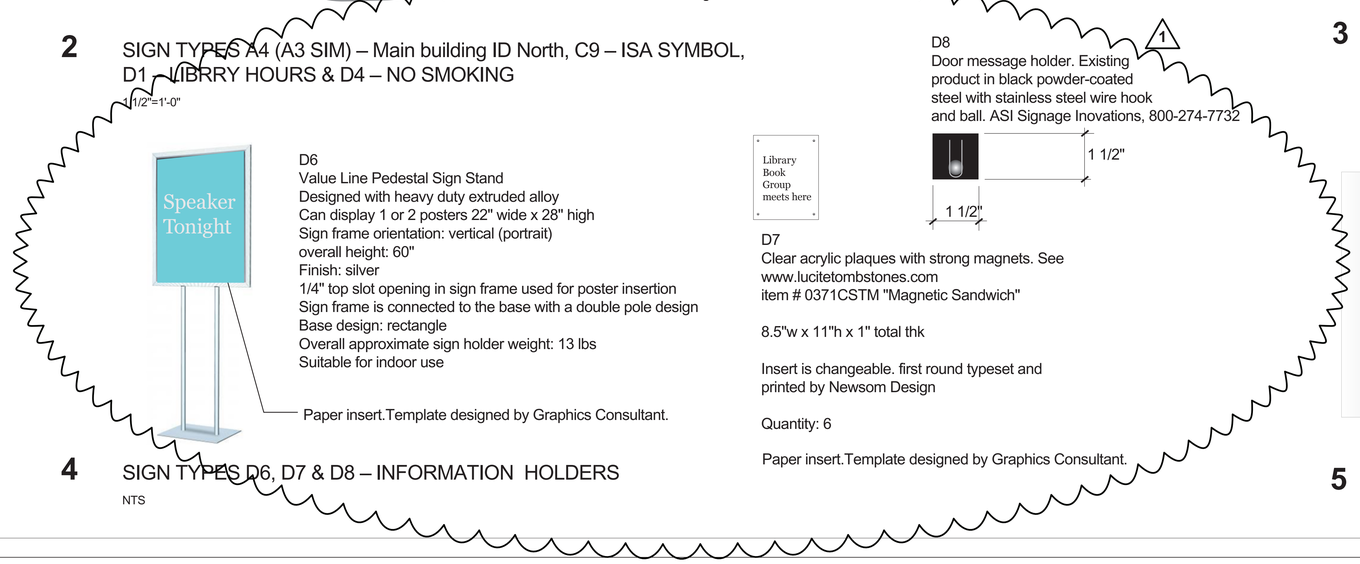
2 SIGN TYPES A4 (A3 SIM) – Main building ID North, C9 – ISA SYMBOL, D1 – LIBRRY HOURS & D4 – NO SMOKING

1 1/2"=1'-0"



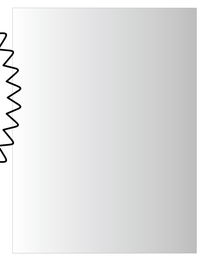
3 SIGN TYPES A7 (A8 SIM) and D2 – SELF CHECK OUT ID

NTS



4 SIGN TYPES D6, D7 & D8 – INFORMATION HOLDERS

NTS



Stainless steel plaque
12"w x 16"h x 1/8"thk
Brush finish #5, horizontal direction
silkscreened graphics –
1 custom color
Quantity: 1
Mounting location and height TBD in
field with Graphic Designer.

Copy TBD.

5 SIGN TYPES D5 – ART DEDICATION PLAQUE

1/4"=1'-0"

ELEVATIONS & DETAILS

SHEET OF

DWG NO. -

TITLE OF PROJECT:

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SHEET OF SHEETS

SHEET TITLE
ELEVATION & DETAILS

SHEET NO.
G8