Contra Costa Community College District

Invitation for Bid D-1190, D-1194, D-1195

DVC Renovations

Diablo Valley College

Addendum #2

May 2, 2022

This Addendum modifies the original Bid Documents and previously issued addenda for the above Bid. Except as noted in this addendum, or prior addenda, all other provisions of the bid documents remain in effect.

Acknowledge receipt of this addendum in the space provided on the BID PROPOSAL FORM. Failure to do so may subject Bidder to disqualification.

Table of contents:

Architect's Stamp: The drawings, specifications and/or calculations in this addendum have been prepared by the architect and/or other design professionals who are licensed to prepare same in California. These documents have been reviewed by me and appear to be in conformance with applicable parts of Title 24, CCR and project specifications. They have been coordinated with the project plans and specifications and determined by me, the Architect in General Responsible Charge, to be acceptable for incorporation therein.

DRAWINGS

1	G1.00	Revise Note Q
2	G1.01	Sheet index: Add Sheet A12.31, A14.00 Delete Sheet ED1.21 (From Bid Set) Add Sheet ED1.22, E1.11, E1.21 (Since Bid Set)
3	CP1.00	Delete Lot 4, Lot 7, Lot 8 Parking Information. Remove non-compliant area notes.
4	CP3.00	Drawing 8: Operable Part dimension.
5	CP3.02	Revised markerboard dimension.
6	C3.1	Drawing 2: Added note specifying slope requirements.
7	C3.2	Drawing 3: Revised Drop-off area.
8	C4.1	Drawing 3: Note clarifying existing building column.
9	C4.2	Drawing 3: Note clarifying existing building column.
10	C5.0	Drawing 7: Added dimension at ramp wheel guide rail. Drawing 12: Revised dimension range.
11	A1.22	Add door detail callout.
12	A1.23	Sign tags added to non-functioning door.
13	A2.50	Drawing 1, 6, 11: Add signage tags.
14	A2.51	Drawings 1, 10: Add signage tags. Existing accessible urinal located correctly.

15	A2.52	Drawing 1: Add signage tags
16	A10.50	Keynote 22-02: “CDC” spelling corrected to “CBC”
17	A11.05	Drawing 3: Revise dimensions.
18	A12.31-A14.00	Add Sheets
19	M7.1	Detail 3: Revise dimension and note.
20	E0.1	Update “bell strobe” to “horn-strobe”.
21	E2.10	Power Plan: Updates to add fire alarm device keynote and indication of existing devices.
22	E2.20	Remove reference drawing.
23	E2.22	Add exit signs.
24	E2.31	Detail 2: Revise dimension in detail for power pole mounting
25	P0.1	Add general plumbing notes 9, 10, 11.

SPECIFICATIONS

1	00010	Table of Contents Add: Section 101423.16 Room-Identification Panel Signage
2	DSA 103 and CSFM Cut Sheets	Revise CSFM Cut Sheets.
3	101423.16	Add section.
4	284600	Add section.

END OF ADDENDUM

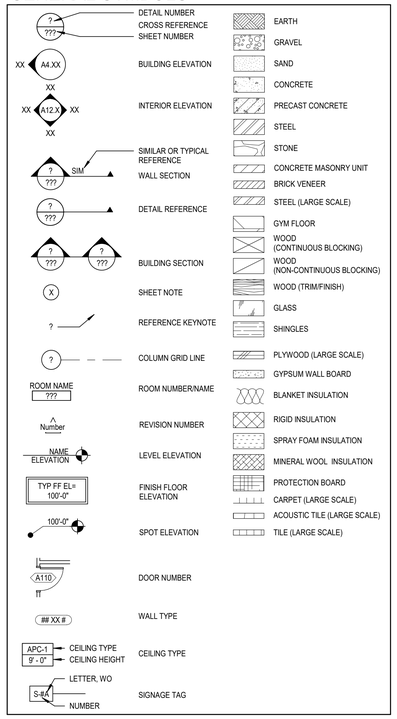
GENERAL ABBREVIATIONS

#	NUMBER
&	AND
@	AT
ADA	AMERICANS WITH DISABILITY ACT
ADDN	ADDITION OR ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
ARCH	ARCHITECTURAL
BFL	BUSINESS/FOREIGN LANGUAGE BUILDING
BLDG	BUILDING
BSMT	BASEMENT
CL	CENTER LINE
CLG	CEILING
CM	CENTIMETER
CONC	CONCRETE
CONN(S)	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CTR	CENTER
D	DEPTH
DEG	DEGREE
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DIV	SPECIFICATION DIVISION
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EXST	EXISTING
EXT	EXTERIOR
FIN	FINISHED
FL	FLOOR
FT	FEET
FUT	FUTURE
GC	GENERAL CONTRACTOR
GOVT	GOVERNMENT
H	HEIGHT
HORIZ	HORIZONTAL
HT	HEIGHT
i.e.	THAT IS
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INT	INTERIOR
LB(S)	POUND(S)
M	THOUSAND
M	METER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
OVHD	OVERHEAD
PAC	PERFORMING ARTS CENTER BUILDING
PAR	PARALLEL
PENT	PENTHOUSE
PLYWD	PLYWOOD
QTY	QUANTITY
REQ(D)	REQUIRE(D)
REV	REVISION(S)
RM	ROOM
RND	ROUND
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SSC	STUDENT SUCCESS CENTER
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SYM	SYMETRICAL
TEMP	TEMPORARY
TYP	TYPICAL
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT

ARCHITECTURAL ABBREVIATIONS

(E)	EXISTING
ACC	ADA ACCESSIBLE
A/E	ARCHITECT/ENGINEER
AB	AIR BARRIER
ABS	ASBESTOS
ACR	ACRYLIC
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
SNV2	SANITARY NAPKIN VENDOR
B.O.	BOTTOM OF
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BM(S)	BEAM(S)
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRKT	BRACKET
BT	BATHTUB
BTWN	BETWEEN
SCD	SEAT COVER DISPENSER, SURFACE-MOUNTED
SND2	SANITARY NAPKIN DISPOSAL
SCR	SEAT COVER DISPENSER, RECESSED
PTR	PAPER TOWEL DISPENSER, RECESSED
WR1	WASTE RECEPTACLE, RECESSED
PWS	COMBINATION TOWEL DISPENSER/RECEPTACLE, SEMI-RECESSED
PWR	COMBINATION TOWEL DISPENSER/RECEPTACLE, RECESSED
PTD3	PAPER TOWEL DISPENSER, SURFACE-MOUNTED
WR2	WASTE RECEPTACLE, SURFACE-MOUNTED
RH	ROBE HOOK
MR/S	MIRROR WITH SHELF
SSS	STAINLESS STEEL SHELF
CAB	CABINET
CBD	CHALKBOARD
CER	CERAMIC
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJA	CONTROL JOINT ABOVE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATIONS
COMPR	COMPRESSIBLE
CONF	CONFERENCE
CONFIG	CONFIGURATION
CORR	CORRIDOR
CP	COVER PLATE
CPT	CARPET
CR	CHAIR RAIL
CS	COUNTERSINK
CSTJ	CONSTRUCTION JOINT
CSWK	CASEWORK
CT	CERAMIC TILE
CU	COPPER
CU	COMBINATION UNIT
CV	CONDOM VENDOR
CY	CUBIC YARD
CYL	CYLINDER
EGL-1	CLEAR, TEMPERED INSULATING GLASS, EXTERIOR
IGL-1	CLEAR, TEMPERED GLASS, INTERIOR
SND1	SANITARY NAPKIN DISPOSAL
DB	DECIBEL
DBL	DOUBLE
DC	DUST COLLECTOR
DEPR	DEPRESS(ION)(ED)
DEPT	DEPARTMENT
DET	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DIAG	DIAGONAL
DPFG	DAMPROOFING
DR	DOOR
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWL(S)	DOWEL(S)
DWR	DRAWER
EB	EXPANSION BOLT
EE	EACH END
EEW	EMERGENCY EYE WASH
EEWS	EMERGENCY EYE WASH SHOWER
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELAS	ELASTOMERIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
ERF	EPOXY RESIN FLOORING
EUI	ENERGY USE INTENSITY
EW	EACH WAY
EXP	EXPANSION
EXP	EXPOSED
F	FABRIC
F.O.	FACE OF
FAB	FABRICATE(D)
FB	FACE BRICK
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIX	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLM	FULL LENGTH MIRROR
FLUOR	FLUORESCENT
FO	FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOFING
FR	FIRE RESISTANT
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RESISTANCE TREATED
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FTG	FOOTING
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	GROUT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GD	GARBAGE DISPOSAL
GEN	GENERAL
GFA	GROSS FLOOR AREA
GL	GLUE LAMINATED
GMP	GUARANTEED MAXIMUM PRICE
GR	GUARD RAIL
GR	GRADE
GRS	GALVANIZED RIGID STEEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
SNV1	SANITARY NAPKIN VENDOR
PTD2	PAPER TOWEL DISPENSER, SURFACE-MOUNTED
SD	SOAP DISPENSER, SURFACE-MOUNTED
HC	HOLLOW CORE
HDF	HIGH DENSITY FIBERBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HR	HANDRAIL
HS	HARDWARE SET
HSS	HOLLOW STRUCTURAL SHAPE
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IF	INSIDE FACE
IGL-2	20 MINUTE RATED TEMPERED GLASS, INTERIOR
IJ	ISOLATION JOINT
IJS	IN JOIST SPACE
INC	INCLUDE(ING)
INSUL	INSULATION
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JCT	JUNCTION
JFB	JOINT FILLER BOARD
JST	JOIST
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KD	KNOCKDOWN
KH	KITCHEN HOOD
KIT	KITCHEN
PTD1	PAPER TOWEL DISPENSER, SURFACE-MOUNTED
IGL-3	
L	ANGLE
LAB	LABORATORY
LAM	LAMINATED
LBR	LUMBER
LDG	LOADING
LF	LINEAR FOOT
LG	LENGTH (LONG)
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LSC	LIFE SAFETY CODE
LTG	LIGHTING
LV	LOUVER
LVT	LUXURY VINYL TILE
MAG	MAGNETIC
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MB	MOP BASIN
MBD	MARKER BOARD
MC	MEDICINE CABINET
MEMB	MEMBRANE
MH	MANHOLE
MTD	MOUNTED
MTG	MOUNTING
MUL	MULLION
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOM	NOMINAL
O to O	OUT TO OUT
OA	OVERALL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPG(S)	OPENING(S)
OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION
OTB	OPEN TO BELOW
OVFL	OVERFLOW
P	PAINT
PAN B	PANIC BOLT
PB	PARTICLE BOARD
PC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PCT	PORCELAIN CERAMIC TILE
PD	PANIC DEVICE
PERF	PERFORATED
PERP	PERPENDICULAR
PIC	PORTABLE INSTRUMENT CONNECTION
PL	PLATE
PL	PROPERTY LINE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT(OR) (ION)
PS	PROJECTION SCREEN
PT	POINT
PT	POINT OF TANGENCY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWL	SOUND POWER LEVEL
TTD	TOILET TISSUE DISPENSER, SURFACE-MOUNTED
QT	QUARRY TILE
QTR RND	QUARTER ROUND
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REM	REMOVABLE
RESIL	RESILIENT
RF	RESILIENT FLOORING
RF	RUBBER FLOOR
RI&C	ROUGH IN AND CONNECT
S	SINK
SAT	SPRAYED ACOUSTIC TREATMENT
SAW	SOUND ABSORBING WALL UNITS
SB	SPLASH BLOCK
SC	SOLID CORE
SC	SHOWER CURTAIN
SCH	SHOWER CURTAIN HOOK
SCT	STRUCTURAL CLAY TILE
SECY	SECRETARY
SF	SQUARE FEET
SGL	SINGLE
SH	SHOWER
SHM	SECURITY HOLLOW METAL
SLNT	SEALANT
SM	SHEET METAL
SPL	SOUND PRESSURE LEVEL
SQ	SQUARE
SS	SOLID SURFACE
SSA	STORM SHELTER AREA
SST	STAINLESS STEEL
ST	STONE
ST	STAIR
STAG'D	STAGGERED
STC	SOUND TRANSMISSION CLASS
STGR	STRINGER
SUBFL	SUBFLOOR
SURF	SURFACE
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
T	TREAD
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TAN	TANGENT
TB	TOWEL BAR
TBD	TACK BOARD
TCP	TOILET COMPARTMENT PARTITION
TERR	TERRAZZO
TH	THRESHOLD
THK	THICK(NESS)
TI	TENANT IMPROVEMENT
TMR	TILT MIRROR UNIT
TOIL	TOILET
TOP	TOP OF PAVING
TRANS	TRANSVERSE
TT	TERRAZZO TILE
TW	TACK WALL
UL	UNDERWRITERS LABORATORIES
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
VB	VAPOR BARRIER
VB	VINYL BASE
VCB	VENTED COVE BASE
VF	VINYL FLOOR
VOC	VOLITILE ORGANIC COMPOUND
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDE
WB	WALL BASE
WC	WALL COVERING
WCL	WATER CLOSET/LAVATORY COMBINATION
WD	WOOD
WDF	WOOD FLOORING
WDW	WINDOW
WI	WROUGHT IRON
WOM	WALK OFF MAT
WRB	WEATHER RESISTANT BARRIER
WW	WARM WHITE
WWF	WELDED WIRE FABRIC
YD	YARD

GENERAL SYMBOLS



LEGEND AND NOTES

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. VERIFY EXISTING CONDITIONS IN FIELD TO CONFIRM LOCATION OF NEW CONSTRUCTION WORK. COORDINATE CONFLICTS WITH ARCHITECT PRIOR DEMOLITION AND CONSTRUCTION.
C. THE OWNER SHALL FURNISH AND INSTALL THE FOLLOWING ITEMS: FURNITURE AND CUBICLES, PRINTERS AND ASSOCIATED EQUIPMENT, AND TELEVISION SCREENS.
D. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE. AND CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. EXISTING EQUIPMENT INCLUDING BUT NOT LIMITED TO STORAGE CABINETS AND SHELVES REQUIRING ATTACHMENT TO WALLS, FLOORS, OR CEILINGS SHALL BE INSTALLED ACCORDING TO THE DRAWINGS.
E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
F. ARCHITECTURAL FLOOR ELEVATION 0'-0" IS ESTABLISHED BY THE EXISTING FLOOR STRUCTURE, EXCLUSIVE OF FINISHES
G. SEE PLANS FOR LOCATIONS AND SHEET A8.00 FOR TYPE OF WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
H. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413.
I. FIRE-RESISTANCE-RATED ENCLOSURES AROUND ALL STEEL COLUMNS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE FOR EACH LEVEL.
J. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK.
K. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
L. GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
M. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
N. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
O. HORIZONTAL AND VERTICAL CLEAR DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GENERAL CONTRACTOR TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
P. AT RESTROOMS, WHEN MODIFICATIONS OR DEMOLITION OF WALL FRAMING AND FINISHES IS REQUIRED, THE PATCH AND REPAIR SHALL EXTEND TO THE NEAREST WALL OR DATUM POINT ESTABLISHED BY THE ARCHITECT TO TERMINATE FINISHES.
Q. REFER TO CP SHEETS AND A14.00 FOR SIGNAGE MOUNTING REQUIREMENTS. SEE PLANS FOR LOCATIONS OF SIGNS. AT LOCATIONS WITH EXISTING SIGNS, REMOVE EXISTING AND SALVAGE FOR OWNER USE.

DSA APPROVAL STAMP

LICENSED ARCHITECT IRENE MONIS C 27579 REN. 11-30-23 STATE OF CALIFORNIA

DLR Group
235 Montgomery Street, Suite 350 San Francisco, CA 94104

DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation
CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022
Revisions
2 05/02/2022 ADDENDUM 2

DLR GROUP PROJECT NUMBER:
75-21809-00

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

G1.00

Sheet List		
Discipline	Sheet Number	Sheet Name
00 - GENERAL		
00 - GENERAL	G0.00	COVER SHEET
00 - GENERAL	G1.00	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
00 - GENERAL	G1.01	SHEET INDEX
05 - CODE		
05 - CODE	CP0.00	CODE PLAN - SUMMARY
05 - CODE	CP1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 CODE PLAN
05 - CODE	CP1.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER - LEVEL 1 CODE PLAN
05 - CODE	CP1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 CODE PLAN
05 - CODE	CP1.23	STUDENT SERVICES - PLANETARIUM - LEVEL 1 CODE PLAN
05 - CODE	CP2.31	PRINT SHOP - BOOKSTORE - LEVEL 2 CODE PLAN
05 - CODE	CP3.00	ACCESSIBILITY DETAILS - BUILDING
05 - CODE	CP3.01	ACCESSIBILITY DETAILS - RESTROOMS
05 - CODE	CP3.02	ACCESSIBILITY DETAILS - TYPICAL MOUNTING HEIGHTS
08 - CIVIL		
08 - CIVIL	C1.0	NOTES SHEET
08 - CIVIL	C2.0	TOPOGRAPHIC & DEMOLITION PLAN
08 - CIVIL	C2.1	TOPOGRAPHIC & DEMOLITION PLAN - LOT 3
08 - CIVIL	C2.2	TOPOGRAPHIC AND DEMOLITION PLAN - LOT 8
08 - CIVIL	C3.0	PAVING & DIMENSIONING PLAN
08 - CIVIL	C3.1	PAVING & DIMENSIONING PLAN - LOT 3
08 - CIVIL	C3.2	PAVING & DIMENSIONING PLAN - LOT 8
08 - CIVIL	C4.0	GRADING AND UTILITY PLAN
08 - CIVIL	C4.1	GRADING AND UTILITY PLAN - LOT 3
08 - CIVIL	C4.2	GRADING AND UTILITY PLAN - LOT 8
08 - CIVIL	C5.0	DETAILS I
9 - DEMOLITION		
9 - DEMOLITION	AD1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 DEMOLITION PLAN
9 - DEMOLITION	AD1.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER- LEVEL 1 DEMOLITION PLAN
9 - DEMOLITION	AD1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 DEMOLITION PLAN
9 - DEMOLITION	AD1.23	STUDENT SERVICES - PLANETARIUM - LEVEL 1 DEMOLITION PLAN
9 - DEMOLITION	AD2.31	PRINT SHOP - BOOKSTORE - LEVEL 2 - DEMOLITION PLAN
9 - DEMOLITION	AD3.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 REFLECTED CEILING DEMOLITION PLAN
9 - DEMOLITION	AD3.30	PRINT SHOP - BOOKSTORE - LEVEL 2 REFLECTED CEILING DEMOLITION PLAN
10 - ARCHITECTURAL		
10 - ARCHITECTURAL	A0.10	CAMPUS SITE PLAN
10 - ARCHITECTURAL	A1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 FLOOR PLAN
10 - ARCHITECTURAL	A1.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PERFORMING ARTS CENTER - LEVEL 1 FLOOR PLAN
10 - ARCHITECTURAL	A1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 FLOOR PLAN
10 - ARCHITECTURAL	A1.23	STUDENT SERVICES - PLANETARIUM - LEVEL 1 FLOOR PLAN
10 - ARCHITECTURAL	A2.31	PRINT SHOP - BOOKSTORE - LEVEL 2 - FLOOR PLAN
10 - ARCHITECTURAL	A2.50	PARTIAL FLOOR PLANS - RESTROOMS
10 - ARCHITECTURAL	A2.51	PARTIAL FLOOR PLANS - RESTROOMS
10 - ARCHITECTURAL	A2.52	PARTIAL FLOOR PLANS - RESTROOMS
10 - ARCHITECTURAL	A2.91	PRINT SHOP - BOOKSTORE - ROOF PLAN
10 - ARCHITECTURAL	A3.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 REFLECTED CEILING PLAN
10 - ARCHITECTURAL	A8.00	PARTITION TYPES
10 - ARCHITECTURAL	A8.10	DOOR & FRAME, WINDOW TYPES & SCHEDULE
10 - ARCHITECTURAL	A9.00	EXTERIOR DETAILS
10 - ARCHITECTURAL	A10.00	INTERIOR ELEVATIONS
10 - ARCHITECTURAL	A10.50	CASEWORK ELEVATIONS
10 - ARCHITECTURAL	A11.00	INTERIOR DETAILS - TYPICAL
10 - ARCHITECTURAL	A11.01	INTERIOR DETAILS
10 - ARCHITECTURAL	A11.02	INTERIOR DETAILS - FLOOR
10 - ARCHITECTURAL	A11.05	INTERIOR DETAILS - CASEWORK
10 - ARCHITECTURAL	A11.20	INTERIOR DETAILS - DOOR
10 - ARCHITECTURAL	A11.30	INTERIOR DETAILS - CEILING - SUSPENDED ACP
10 - ARCHITECTURAL	A11.31	INTERIOR DETAILS - CEILING - GWB
10 - ARCHITECTURAL	A11.32	INTERIOR DETAILS - CEILING - HANGER AND BRACING WIRES
10 - ARCHITECTURAL	A11.33	INTERIOR DETAILS - CEILING - COMPRESSION STRUTS
10 - ARCHITECTURAL	A12.00	FINISH SCHEDULES
10 - ARCHITECTURAL	A12.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 FINISH PLAN
10 - ARCHITECTURAL	A12.31	PRINT SHOP - BOOKSTORE - LEVEL 2 FINISH PLAN
10 - ARCHITECTURAL	A14.00	SIGN TYPES & SIGNAGE DETAILS

Sheet List		
Discipline	Sheet Number	Sheet Name
20 - STRUCTURAL		
20 - STRUCTURAL	S0.1	GENERAL STRUCTURAL NOTES & SPECIAL INSPECTIONS
20 - STRUCTURAL	S1.20	STUDENT SERVICES - PERFORMING ARTS CENTER - STRUCTURAL
20 - STRUCTURAL	S6.1	STRUCTURAL DETAILS
20 - STRUCTURAL	S6.2	STRUCTURAL DETAILS
20 - STRUCTURAL	S6.3	STRUCTURAL DETAILS
30 - MECHANICAL		
30 - MECHANICAL	M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES
30 - MECHANICAL	M0.2	MECHANICAL SPECIFICATIONS
30 - MECHANICAL	MD1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - HVAC DEMOLITION PLAN
30 - MECHANICAL	MD1.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - HVAC DEMOLITION PLAN
30 - MECHANICAL	M1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - HVAC PLAN
30 - MECHANICAL	M1.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - HVAC PLAN
30 - MECHANICAL	M1.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - HVAC PLAN
30 - MECHANICAL	M1.32	PRINT SHOP - BOOKSTORE - ROOF - HVAC PLAN
30 - MECHANICAL	M7.1	MECHANICAL DETAILS
40 - ELECTRICAL		
40 - ELECTRICAL	E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
40 - ELECTRICAL	E0.3	TITLE 24 FORMS
40 - ELECTRICAL	E0.4	TITLE 24 FORMS
40 - ELECTRICAL	E0.5	TITLE 24 FORMS
40 - ELECTRICAL	ED1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 ELECTRICAL DEMOLITION PLAN
40 - ELECTRICAL	ED1.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG - LEVEL 1 ELECTRICAL DEMOLITION PLAN
40 - ELECTRICAL	ED1.22	STUDENT SERVICES - LEARNING CENTER - LEVEL 1 ELECTRICAL DEMOLITION PLAN
40 - ELECTRICAL	E1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - LIGHTING PLAN
40 - ELECTRICAL	E1.11	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 1 EM PHOTOMETRICS
40 - ELECTRICAL	E1.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 - LIGHTING PLANS
40 - ELECTRICAL	E1.21	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 EM PHOTOMETRICS
40 - ELECTRICAL	E1.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - POWER PLAN
40 - ELECTRICAL	E2.20	STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 - POWER PLANS
40 - ELECTRICAL	E2.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - POWER PLAN
40 - ELECTRICAL	E2.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - POWER PLAN
40 - ELECTRICAL	E2.32	PRINT SHOP - BOOKSTORE - ROOF - POWER
40 - ELECTRICAL	E7.1	ELECTRICAL SCHEDULES
50 - PLUMBING		
50 - PLUMBING	P0.1	PLUMBING GENERAL NOTES, SCHEDULES, SYMBOLS & ABBREVIATIONS
50 - PLUMBING	PD2.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - PLUMBING DEMOLITION PLAN
50 - PLUMBING	PD2.21	STUDENT SERVICES - LEARNING CENTER - LEVEL 01 - PLUMBING DEMOLITION PLAN
50 - PLUMBING	PD2.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - PLUMBING DEMOLITION PLAN
50 - PLUMBING	P2.10	HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - PLUMBING PLAN
50 - PLUMBING	P2.21	STUDENT SERVICES - LEARNING CENTER - LEVEL 01 - PLUMBING PLAN
50 - PLUMBING	P2.22	STUDENT SERVICES - PLANETARIUM - LEVEL 01 - PLUMBING PLAN
50 - PLUMBING	P2.31	PRINT SHOP - BOOKSTORE - LEVEL 02 - PLUMBING PLAN
50 - PLUMBING	P2.51	BFL - RESTROOMS - PLUMBING DEMOLITION & NEW PLANS

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ADDENDUM 2

05/02/2022

Revisions

1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER:
75-21809-00

SHEET INDEX

G1.01

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

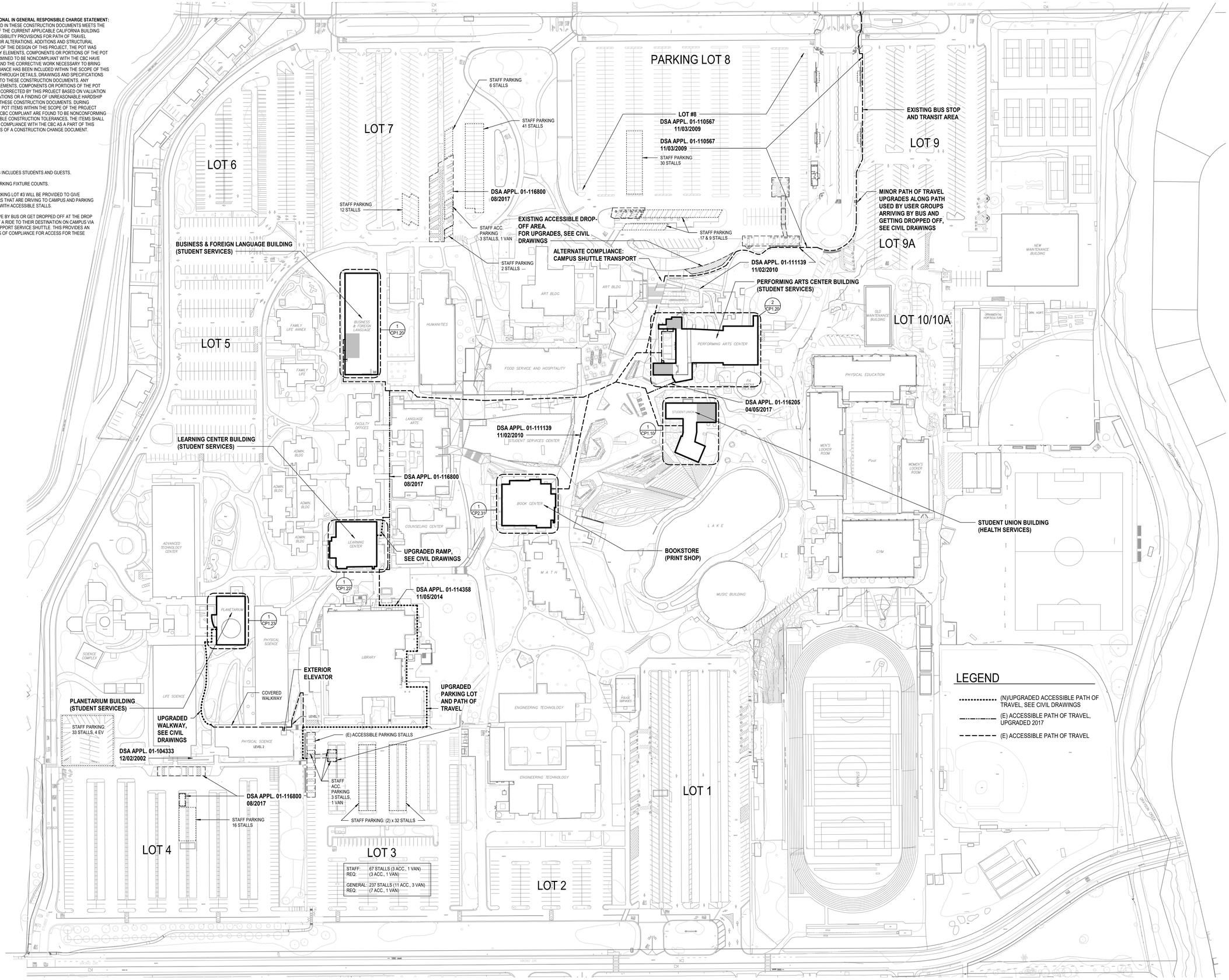
NOTE:

GENERAL PARKING INCLUDES STUDENTS AND GUESTS.

NO CHANGE TO PARKING FIXTURE COUNTS.

UPGRADES TO PARKING LOT #3 WILL BE PROVIDED TO GIVE ACCESS FOR USERS THAT ARE DRIVING TO CAMPUS AND PARKING IN A PARKING LOT WITH ACCESSIBLE STALLS.

USERS THAT ARRIVE BY BUS OR GET DROPPED OFF AT THE DROP OFF CAN REQUEST A RIDE TO THEIR DESTINATION ON CAMPUS VIA THE DISABILITY SUPPORT SERVICE SHUTTLE. THIS PROVIDES AN ALTERNATE MEANS OF COMPLIANCE FOR ACCESS FOR THESE USER GROUPS.



N

1 CP1.00 ACCESSIBLE PATH OF TRAVEL SITE PLAN
SCALE: 12" = 1'-0"

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1	04/22/2022	ADDENDUM 1
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DLR GROUP PROJECT NUMBER:
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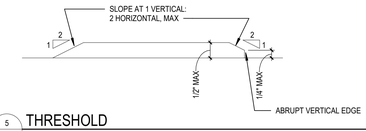
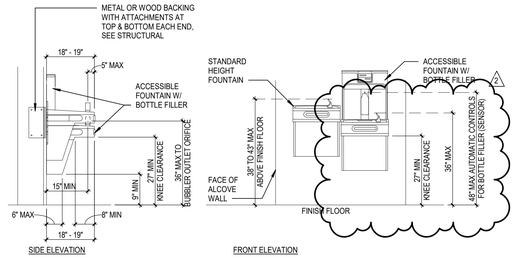
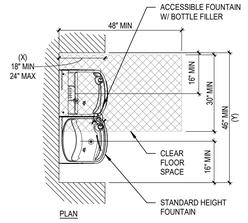
ACCESSIBLE PATH OF TRAVEL

CP1.00 2



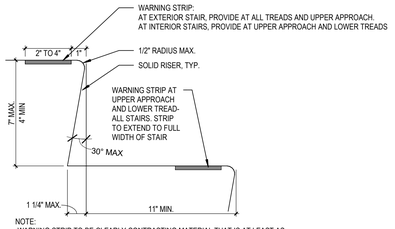
5 CP3.00 THRESHOLD
SCALE: 6" = 1'-0"





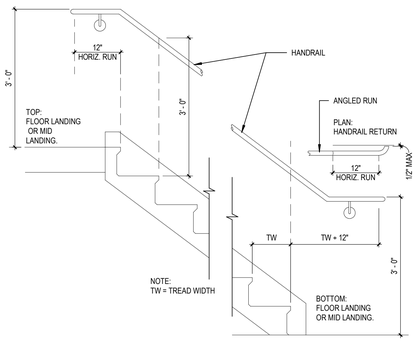
NOTES:
1. IF ALCOVE DEPTH (X) IS GREATHER THAN 24", THEN ALCOVE WIDTH (Y) MUST BE A MINIMUM OF 36" FOR A SINGLE D.F.
2. LEVER OR PUSH BAR TYPE IS LOCATED 6" MAX FROM FRONT EDGE.
3. STREAM FROM BUBBLER TO BE A MINIMUM OF 4" HIGH.
4. THE SPOUT OUTLETS SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 15 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.
5. ANGLE OF WATER STREAM (A) IS MEASURED HORIZONTALL RELATIVE TO FRONT FACE OF THE UNIT. WHERE BUBBLER OUTLET IS <3" FROM FRONT OF UNIT, (A) SHALL BE 30° MAX. WHERE BUBBLER OUTLET IS BETWEEN 3" AND 5" FROM FRONT OF UNIT, (A) SHALL BE 15° MAX.
6. FORCE REQUIRED TO ACTIVATE CONTROLS CANNOT EXCEED 5 LBS.
7. OPERATING CONTROLS SHALL NOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST.
8. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH U.N.O.

8 CP3.00 DRINKING FOUNTAIN CLEARANCES
SCALE: 1/2" = 1'-0"

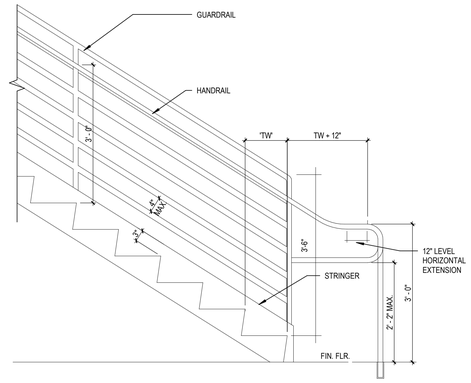


NOTE:
-WARNING STRIP TO BE CLEARLY CONTRASTING MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE REST OF THE TREADS.

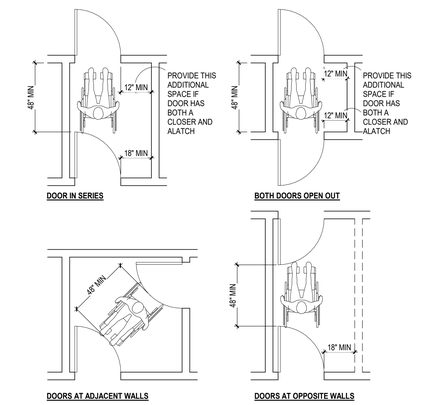
4 CP3.00 DETAIL - ACCESSIBILITY - STAIR TREAD
SCALE: 3" = 1'-0"



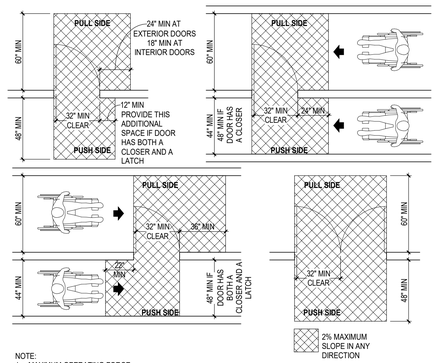
3 CP3.00 DETAIL - ACCESSIBILITY - STAIRS
SCALE: 3/4" = 1'-0"



2 CP3.00 DETAIL - ACCESSIBILITY - FREESTANDING STAIRS
SCALE: 3/4" = 1'-0"

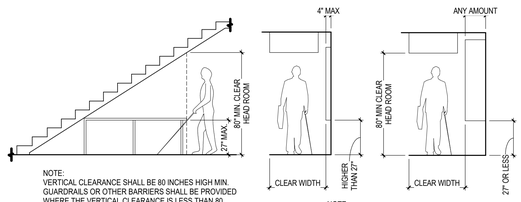


7 CP3.00 VESTIBULE DOORS
SCALE: 1/4" = 1'-0"



NOTE:
1. MAXIMUM OPERATING FORCE:
   A. INTERIOR HINGED - 5 POUNDS
   B. EXTERIOR HINGED - 5 POUNDS
   C. SLIDING OR FOLDING - 5 POUNDS
   D. REQUIRED FIRE DOOR - MINIMUM OPENING FORCE ALLOWABLE BY APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS
2. CLOSING SPEED:
   A. IF A DOOR HAS A CLOSER, THEN THE TIME REQUIRED TO MOVE THE DOOR FROM AN OPEN POSITION OF 90° TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
   B. IF A DOOR HAS A SPRING HINGE, THEN THE TIME REQUIRED TO MOVE THE DOOR FROM AN OPEN POSITION OF 70° TO A CLOSED POSITION SHALL BE 1.5 SECONDS MINIMUM.

6 CP3.00 DOOR CLEARANCES
SCALE: 1/4" = 1'-0"



NOTE:
VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MIN. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAX. ABOVE THE FINISH FLOOR OR GROUND.

NOTE:
PROTRUDING OBJECTS MAY NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANUVERINGS SPACE

1 CP3.00 ACCESSIBLE ROUTE CLEARANCES
SCALE: 1/4" = 1'-0"

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ADDENDUM 2

05/02/2022

Revisions

1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER:
75-21809-00

ACCESSIBILITY DETAILS - BUILDING

CP3.00

NOTES:

1. IT IS THE INTENT OF THE DESIGN THAT ALL ITEMS SHOWN MOUNTED AT TYPICAL HEIGHTS BE ACCESSIBLE TO PERSONS WITH DISABILITIES, UNLESS NOTED OTHERWISE.

2. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE TYPICAL MOUNTING HEIGHTSAND, WHERE APPLICABLE, TYPICAL MINIMUM OR MAXIMUM CLEARANCES, AND/OR TYPICAL MOUNTING CONFIGURATIONS FOR A VARIETY OF ITEMS.

ATTENTION: THIS SHEET MAY ILLUSTRATE ITEMS OR CONFIGURATIONS WHICH DO NOT OCCUR AS PART OF THE WORK OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES TO DETERMINE WHICH ITEMS AND CONFIGURATIONS APPLY TO THE WORK OF THIS PROJECT.

3. THE HEIGHTS, CLEARANCES, AND CONFIGURATIONS SHOWN ON THIS SHEET ARE TYPICAL AND SHALL APPLY TO ALL INSTANCES OF THE ITEM (OR GROUP OF ITEMS) SHOWN UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE. THE TYPICAL DIMENSIONS SHOWN ON THIS SHEET TAKE PRECEDENCE OVER TYPICAL DIMENSIONS SHOWN ON THE ELECTRICAL OR MECHANICAL DRAWINGS FOR THE MOUNTING OF ITEMS INSTALLED BY THE ELECTRICAL OR MECHANICAL TRADES.

4. SPECIAL OR NON-TYPICAL MOUNTING HEIGHTS OCCUR ONLY WHERE INDICATED BY ANNOTATED SYMBOLS; BY KEY NOTES; BY NOTES ON PLANS, ELEVATIONS, OR DETAILS; OR BY UNIQUE DIMENSIONS ON ELEVATIONS OR DETAILS.

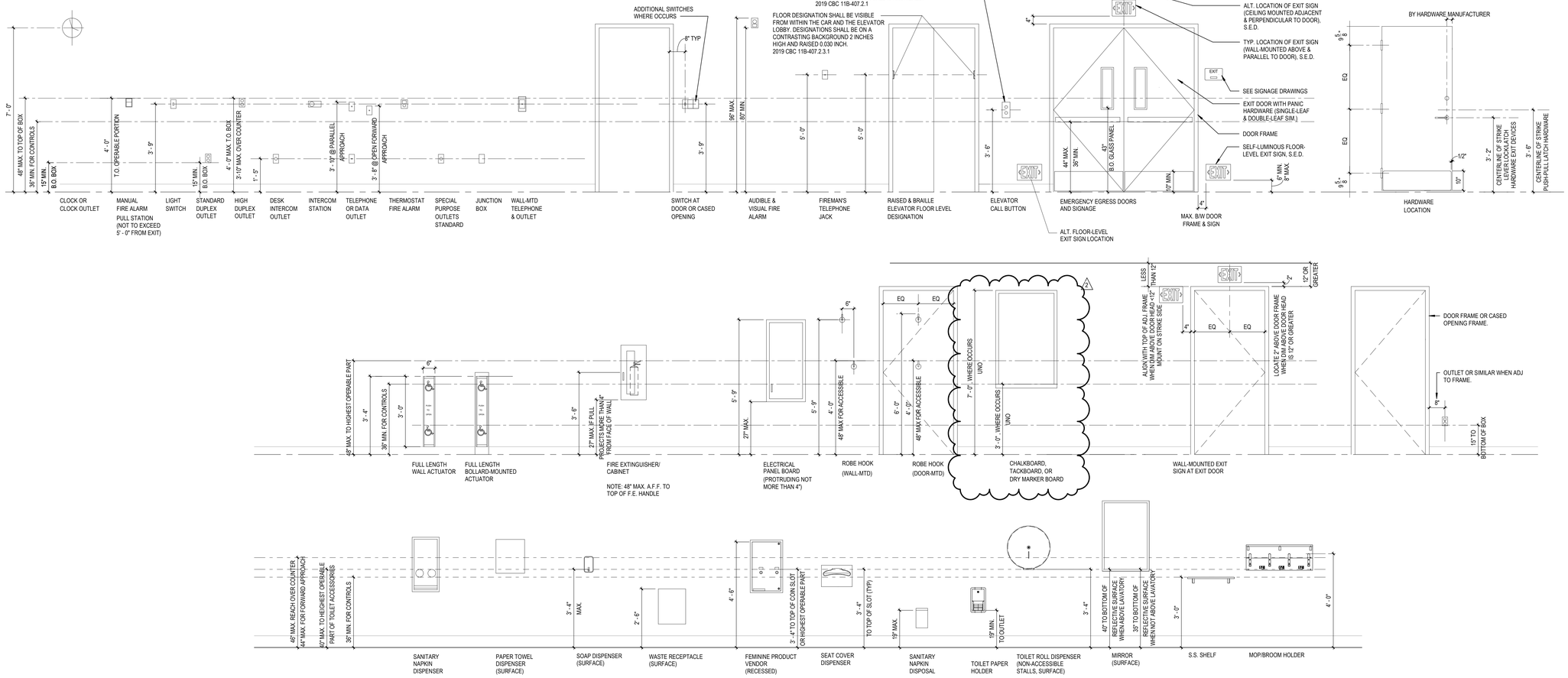
5. FOR ADDITIONAL INFORMATION REGARDING THE PRECEDENCE OF DRAWINGS FOR DETERMINING THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK, REFER TO THE "ARCHITECTURAL GENERAL NOTES" AND TO THE "TYP RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATIONS" - SEE THE INDEX OF DRAWINGS FOR SHEET NUMBERS.

6. TYPICAL MOUNTING HEIGHTS FOR ADDITIONAL ITEMS NOT SHOWN ON THIS SHEET MAY BE ILLUSTRATED BY OTHER SHEETS. REFER TO THE INDEX OF DRAWINGS FOR ADDITIONAL INFORMATION.

7. MOUNTING CONFIGURATION DIAGRAMS ARE ELEVATIONS WHICH ILLUSTRATE TYPICAL RULES GOVERNING THE RELATIONSHIPS BETWEEN, AND PLACEMENT OF, ITEMS WHICH OCCUR IN GROUPS OF RELATED ITEMS (SUCH AS TOILET ACCESSORIES) OR IN CLOSE PROXIMITY TO OTHER PARTS OF THE WORK (SUCH AS SWITCHES AND DOOR FRAMES). UNLESS OTHER MOUNTING CONFIGURATIONS ARE SPECIFICALLY NOTED, DIMENSIONED, OR ELEVATED, THE TYPICAL RELATIONSHIPS, ARRANGEMENTS, AND DIMENSIONS SHOWN BY THE TYPICAL CONFIGURATION DIAGRAMS APPLY THROUGHOUT THE WORK OF THIS PROJECT.

8. TYPICAL MOUNTING CONFIGURATIONS FOR ADDITIONAL GROUPINGS NOT SHOWN ON THIS SHEET MAY BE SHOWN ON OTHER SHEETS. REFER TO THE INDEX OF DRAWINGS FOR ADDITIONAL INFORMATION.

9. MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS FOR TOILET ACCESSORIES SHOWN ON THIS SHEET ARE BASED UPON SPECIFIC MANUFACTURERS AND MODELS AS INDICATED BY THE "TOILET ACCESSORY SCHEDULE." WHEN SIMILAR ACCESSORIES OF OTHER SPECIFIED AND ACCEPTABLE MANUFACTURERS (IF ANY) ARE UTILIZED, MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS OF THE SIMILAR ACCESSORIES MAY VARY FROM THOSE SHOWN. WHEN SIMILAR ACCESSORIES ARE UTILIZED,THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIRED TO ACHIEVE THE SAME AESTHETIC AND FUNCTIONAL DESIGN INTENT ILLUSTRATED BY THAT SHOWN ON THE DRAWINGS.



1 CP3.02 TYP. MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

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ADDENDUM 2

05/02/2022
Revisions

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DLR GROUP PROJECT NUMBER:
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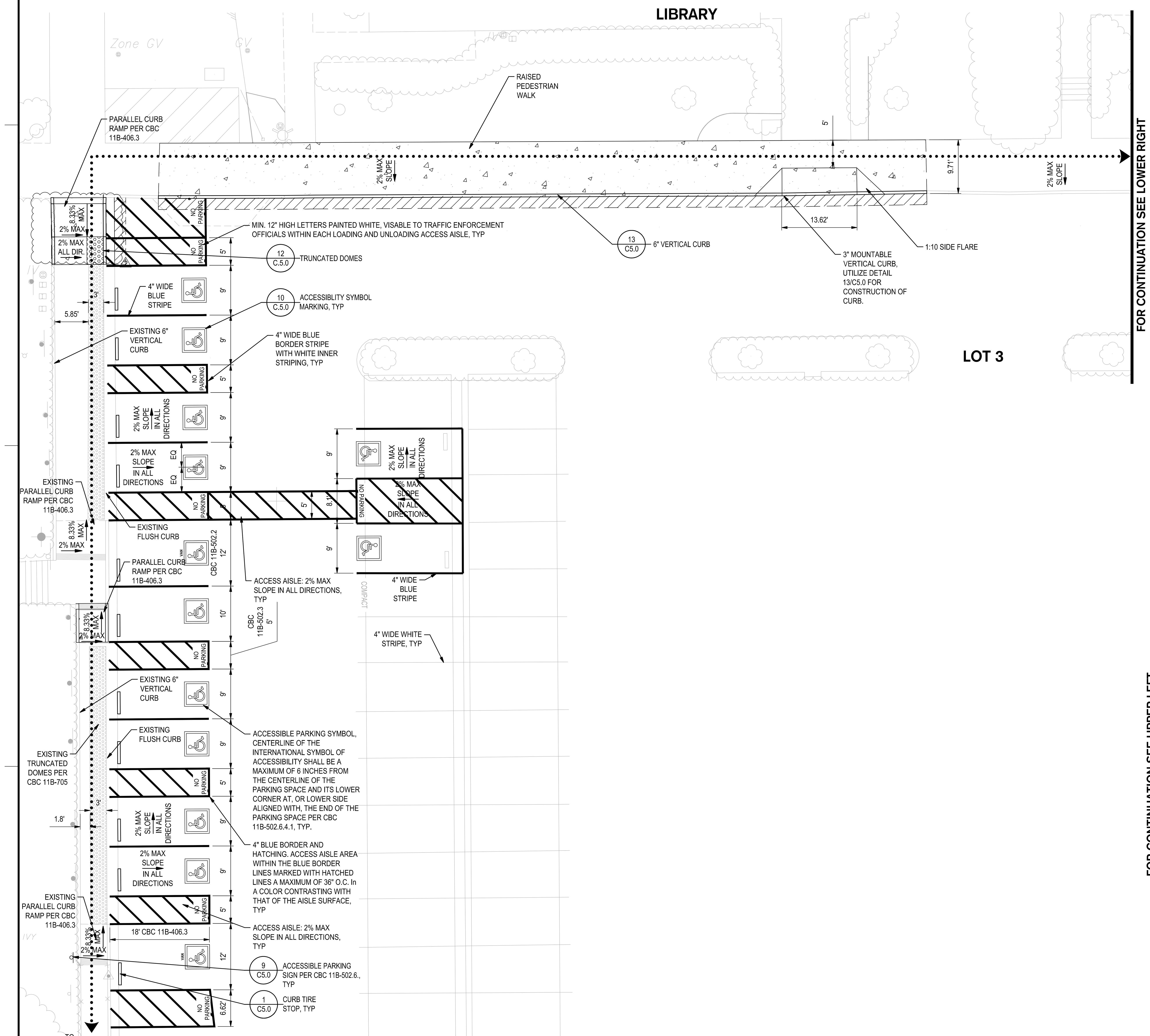
ACCESSIBILITY DETAILS - TYPICAL MOUNTING HEIGHTS

1

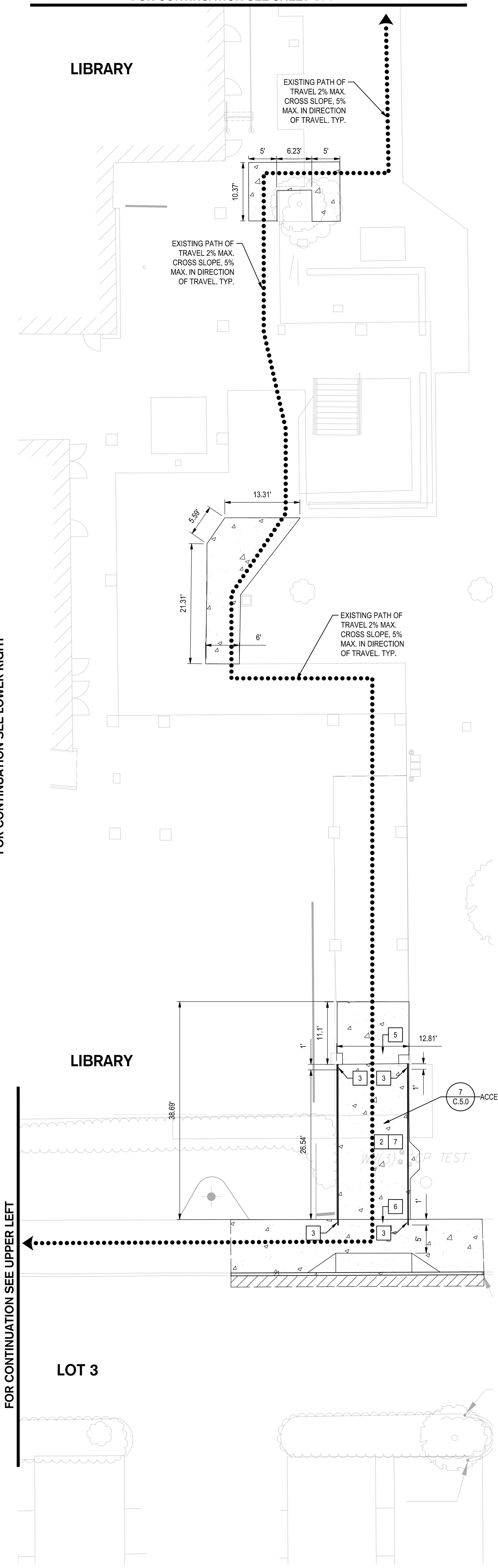
CP3.02



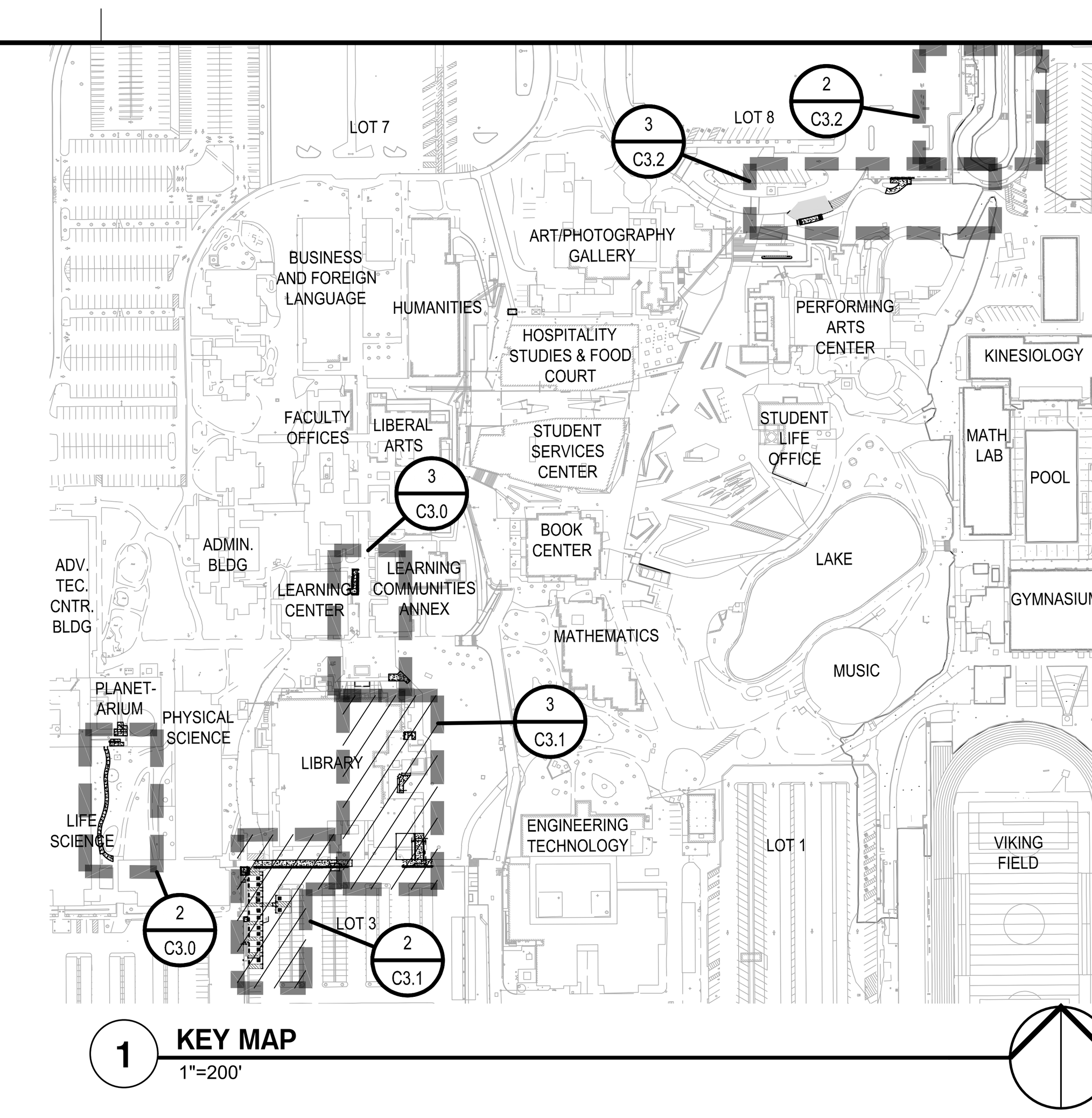
2 LEARNING CENTER PATH
1"=10'

F:\21projects\21325 Diablo Valley College Learning Center Ramp\Plans and Graphics\Improvement Plans\21325-C3.1 PAVING & DIMENSIONING - LOT 3.dwg

FOR CONTINUATION SEE SHEET C3.0



3 LEARNING CENTER PATH
1"=10'



1 KEY MAP
1"=200'

PAVING AND DIMENSION NOTES

1. THICKENED EDGE PER DETAIL 3 ON SHEET C5.0 TO BE LOCATED AT ALL TRANSITIONS TO UNPAVED AREAS.

LEGEND

⊞	PEDESTRIAN CONCRETE PAVING 4" 3,000 PSI P.C.C. W/ #4 @ 24" O.C. OVER 4" CLASS II AGGREGATE BASE OVER 6" SUBGRADE PREPARED PER THE PROJECT GEOTECHNICAL REPORT. CONCRETE JOINTS PER DETAIL 2 ON SHEET C5.0
▒	ASPHALT GRIND AND OVERLAY 1.5" GRIND WITH 1.2"-2.5" OVERLAY TO ACHIEVE MAX 2% CROSS SLOPES IN ALL DIRECTIONS
▨	ASPHALT DEEPLIFT PATCHBACK 8" ASPHALT OVER 8" NATIVE COMPACTED TO 95% R.C.
⁘	LANDSCAPE REPLACE DISTRUBED LANDSCAPE PLANTING AND IRRIGATION IN KIND
◀·····	ACCESSIBLE ROUTE

KEY NOTES

1	SAWCUT TO NEAT, CLEAN LINE, OR AT NEAREST RELIEF JOINT
2	INSTALL ACCESSIBLE RAMP WITH HANDRAILS PER DETAIL 7 ON SHEET C5.0
3	1' LEVEL HANDRAIL EXTENSION
4	EXISTING HANDRAIL TO REMAIN. CONTRACTOR SHALL VERIFY EXISTING HANDRAIL MAY REMAIN WITH NEW RAMP TO MEET REQUIREMENTS PER CBC 11B-505. MIN. 1' LEVEL EXTENSION SHALL BE MEASURED FROM THE GRADE BREAK AT TOP AND BOTTOM LANDINGS OF RAMP.
5	TOP LANDING COMPLIES WITH CBC SECTION 11B-405.7
6	BOTTOM LANDING COMPLIES WITH CBC SECTION 11B-405.7
7	ACCESSIBLE RAMP COMPLIES WITH CBC SECTION 11B-405
8	STEEL BOLLARD PER DETAIL 14 ON SHEET C5.0

0' 5' 10' 20'
SCALE: 1"=10'

DSA APPROVAL STAMP

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 04/29/22

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ADDENDUM 2

05/02/20222

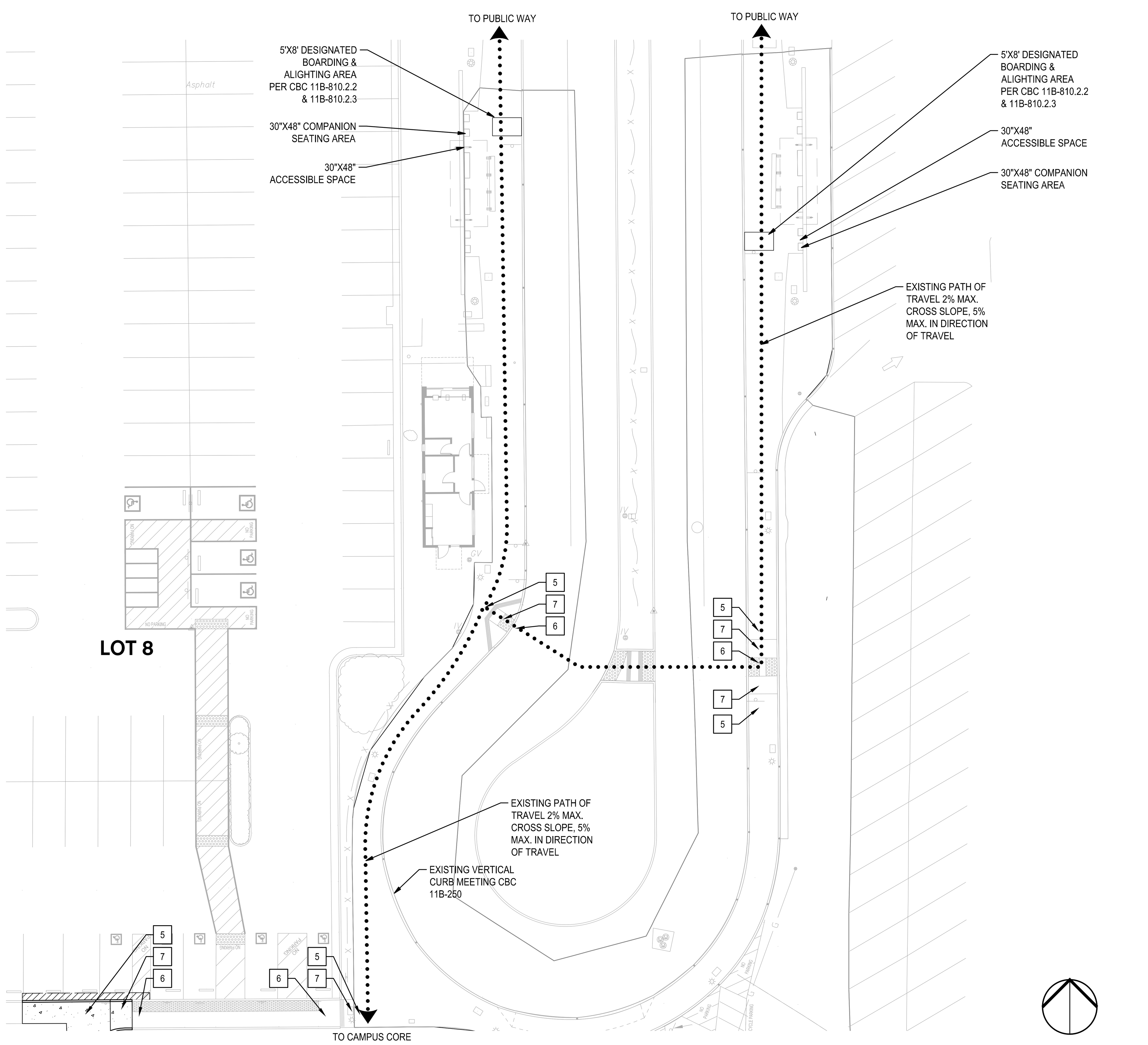
Revisions

1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER: 75-21809-00
SIEGFRIED PROJECT NUMBER: 21325

PAVING & DIMENSIONING - LOT 3

C3.1 ⚠1

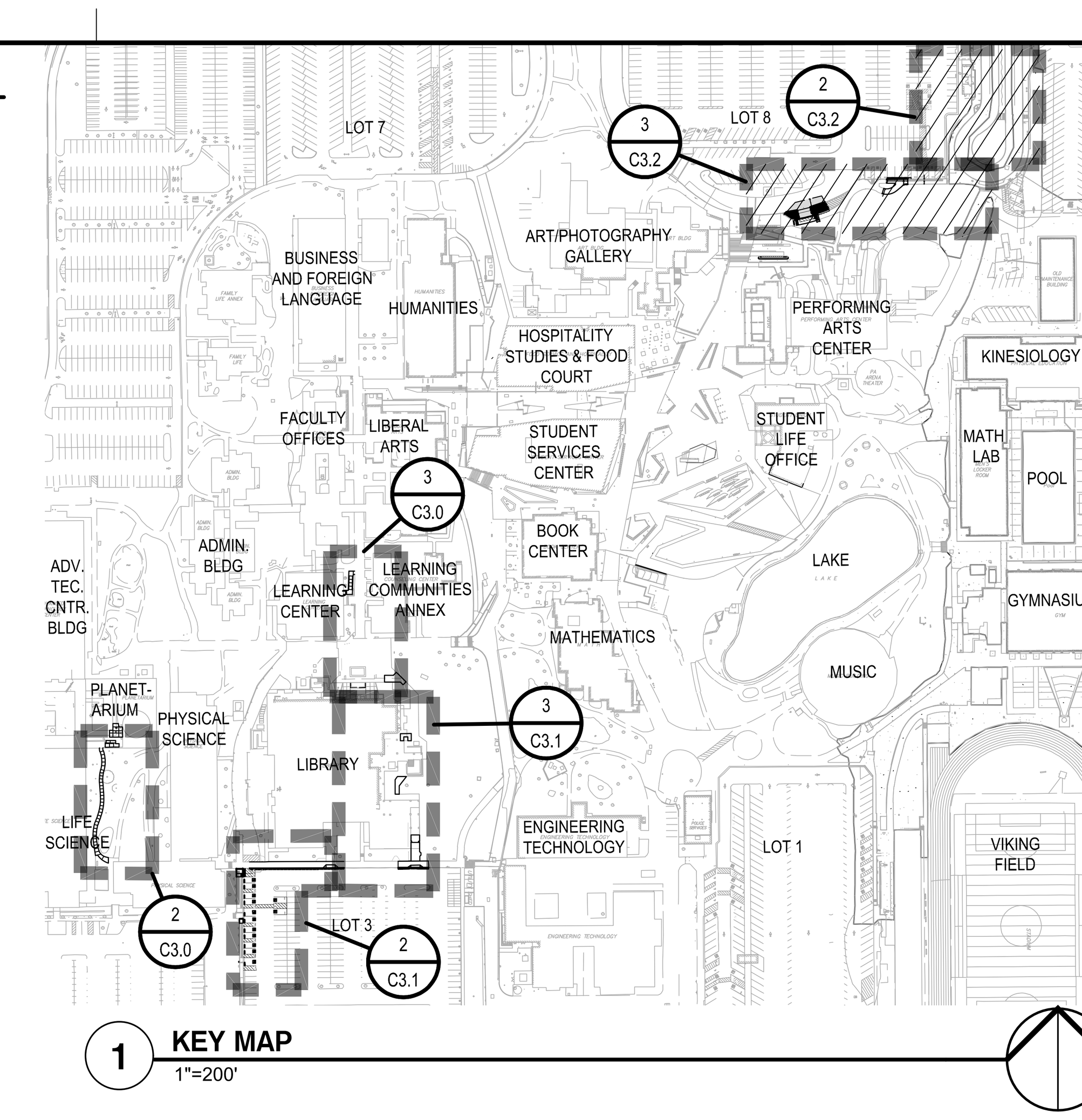


2 LOT 8 ACCESSIBLE PATH IMPROVEMENT

1"=20'

KEY NOTES

1	SAWCUT TO NEAT, CLEAN LINE, OR AT NEAREST RELIEF JOINT
2	INSTALL ACCESSIBLE RAMP WITH HANDRAILS PER DETAIL 7 ON SHEET C5.0
3	1' LEVEL HANDRAIL EXTENSION
4	EXISTING HANDRAIL TO REMAIN. CONTRACTOR SHALL VERIFY EXISTING HANDRAIL MAY REMAIN WITH NEW RAMP TO MEET REQUIREMENTS PER CBC 11B-505. MIN. 1' LEVEL EXTENSION SHALL BE MEASURED FROM THE GRADE BREAK AT TOP AND BOTTOM LANDINGS OF RAMP.
5	TOP LANDING COMPLIES WITH CBC SECTION 11B-405.7
6	BOTTOM LANDING COMPLIES WITH CBC SECTION 11B-405.7
7	ACCESSIBLE RAMP COMPLIES WITH CBC SECTION 11B-405
8	STEEL BOLLARD PER DETAIL 14 ON SHEET C5.0



1 KEY MAP

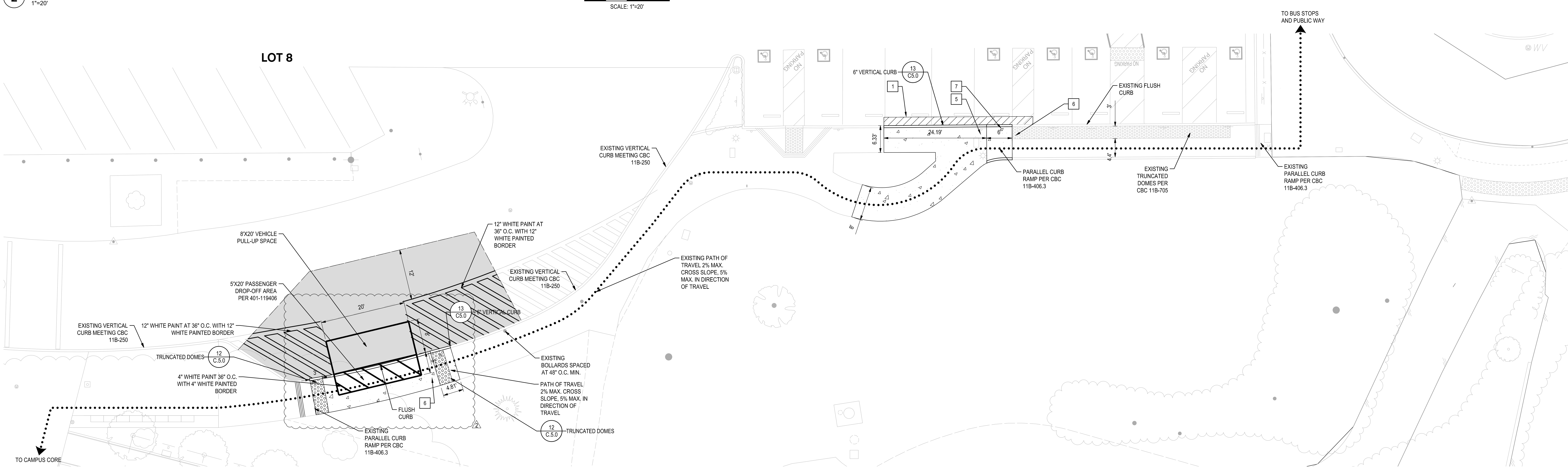
1"=200'

PAVING AND DIMENSION NOTES

1. THICKENED EDGE PER DETAIL 3 ON SHEET C5.0 TO BE LOCATED AT ALL TRANSITIONS TO UNPAVED AREAS.

LEGEND

⊞	PEDESTRIAN CONCRETE PAVING 4" 3,000 PSI P.C.C. W/ #4 @ 24" O.C. OVER 4" CLASS II AGGREGATE BASE OVER 6" SUBGRADE PREPARED PER THE PROJECT GEOTECHNICAL REPORT. CONCRETE JOINTS PER DETAIL 2 ON SHEET C5.0
▩	ASPHALT GRIND AND OVERLAY 1.5" GRIND WITH 1.2"-2.5" OVERLAY TO ACHIEVE MAX 2% CROSS SLOPES IN ALL DIRECTIONS
▨	ASPHALT DEEPLIFT PATCHBACK 8" ASPHALT OVER 8" NATIVE COMPACTED TO 95% R.C.
⁘	LANDSCAPE REPLACE DISTRUBED LANDSCAPE PLANTING AND IRRIGATION IN KIND
◀····	ACCESSIBLE ROUTE



3 LOT 8 ACCESSIBLE PATH IMPROVEMENT

1"=10'

F:\21projects\21325 Diablo Valley College Learning Center Ramp\Plans and Graphics\Improvement Plans\21325-C3.2 PAVING & DIMENSIONING - LOT 8.dwg

DSA APPROVAL STAMP

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 04/29/22

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DSA FILE: 07-C1

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CCCCD - Diablo Valley College
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PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/20222

Revisions

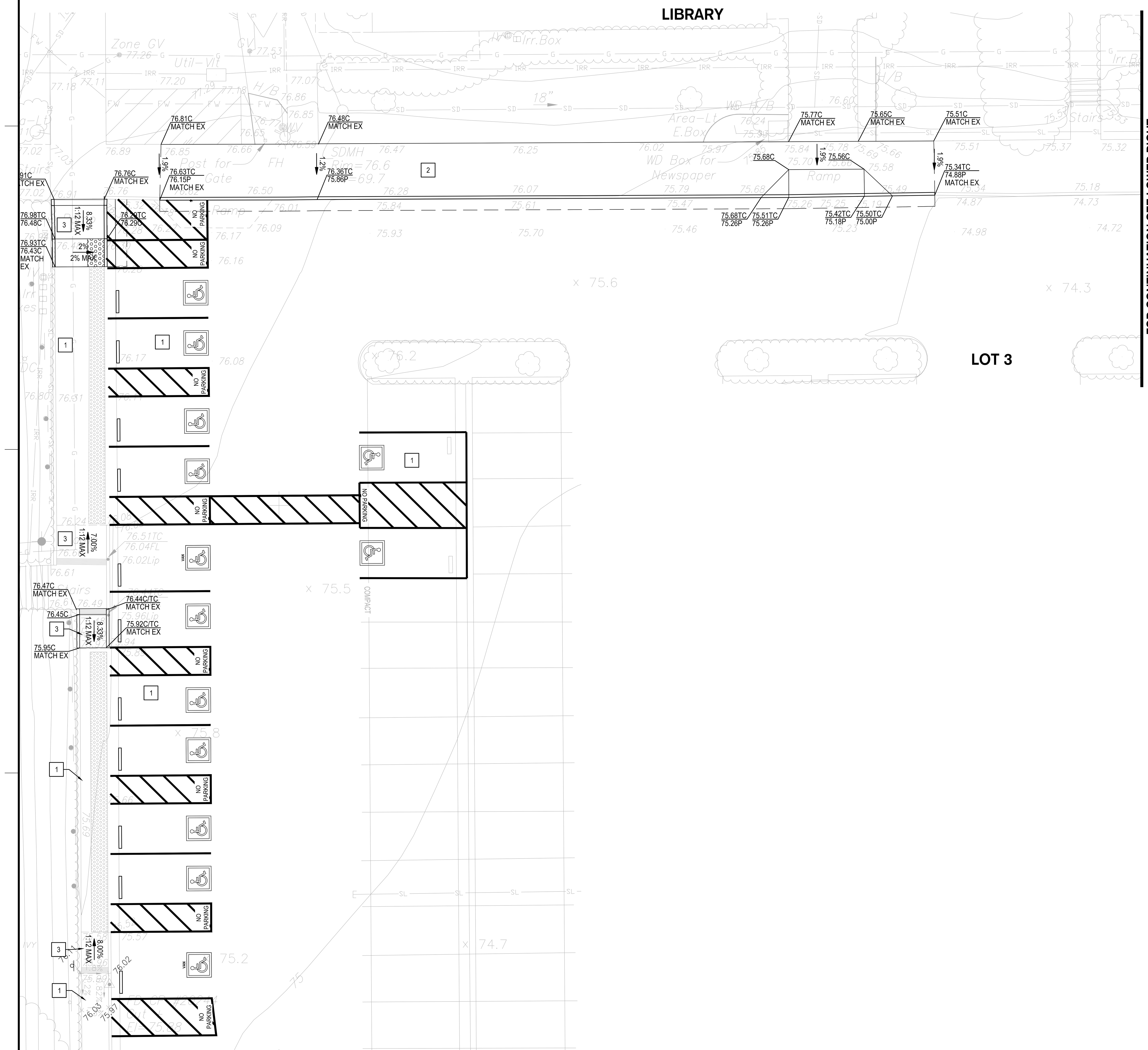
1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER: 75-21809-00
SIEGFRIED PROJECT NUMBER: 21325

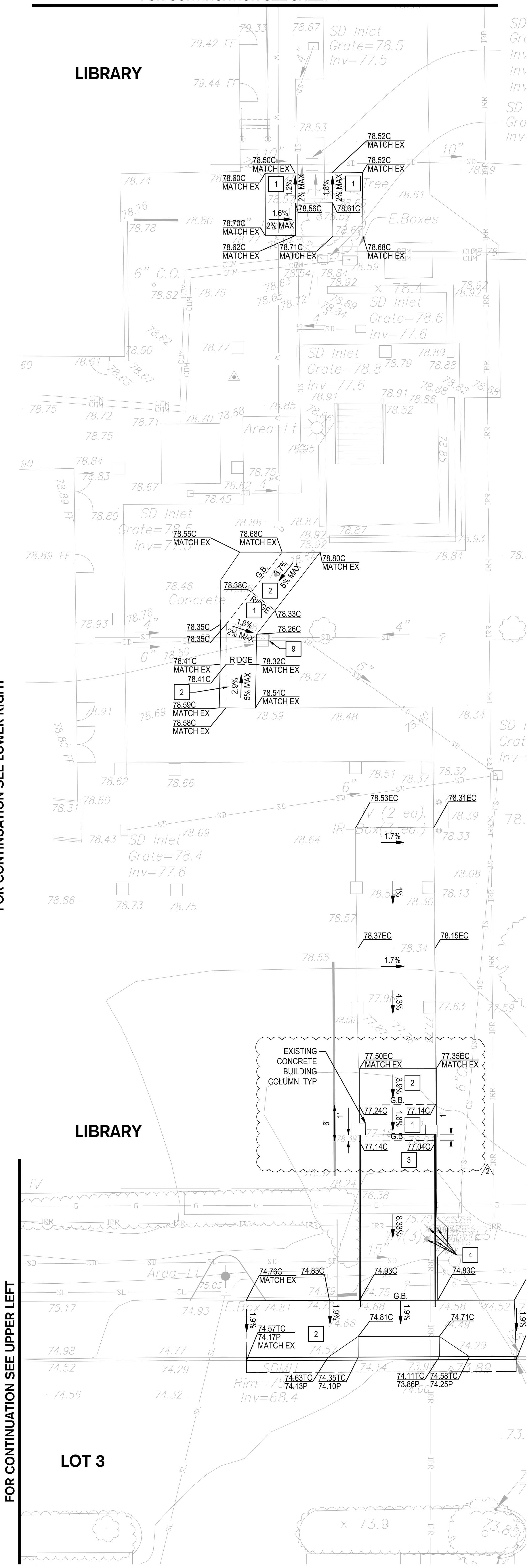
PAVING & DIMENSIONING - LOT 8

C3.2

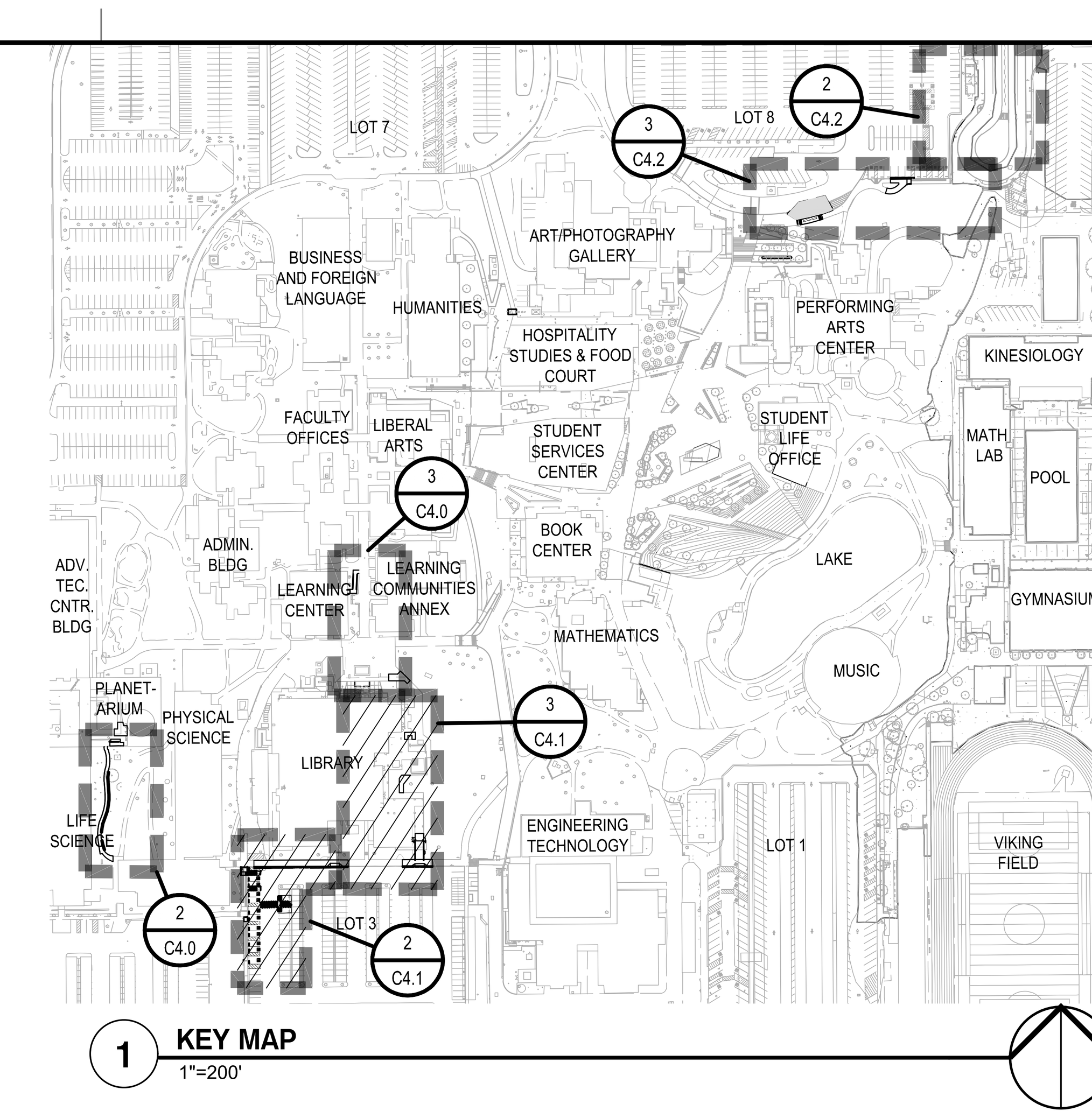
FOR CONTINUATION SEE SHEET C4.0



2 LEARNING CENTER PATH
1"=10'



3 LEARNING CENTER PATH
1"=10'



1 KEY MAP
1"=200'

GRADING AND UTILITY NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY OF THE EXISTING UTILITIES, INCLUDING, BUT NOT LIMITED TO UTILITY BOXES, THAT ARE FOUND TO BE BROKEN, CRACKED, OR OTHERWISE DAMAGED.
2. ALL UTILITY BOXES/STRUCTURES AND MAINTENANCE HOLES SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL VERIFY INVERTS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF RECORD IMMEDIATELY OF CONFLICTS.
4. CONTRACTOR TO COORDINATE UTILITY WORK WITH DISTRICT PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITHIN 48 HOURS PRIOR OF CONSTRUCTION TO LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION.
6. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT MINIMUM TWO WORKING DAYS BEFORE EXCAVATION.
7. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED UNDERGROUND UTILITIES. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND EXPOSING CONFLICTS PRIOR TO CONSTRUCTION.
8. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS IMMEDIATELY. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.

GRADING AND UTILITY LEGEND

61.35TC / 61.35P	TOP OF CURB GRADE / PAVEMENT GRADE
61.35TC / 61.35C	TOP OF CURB GRADE / CONCRETE GRADE
61.35TOW	TOP OF WALL GRADE
FF = 61.35	FINISHED FLOOR ELEVATION
61.35FG	FINISHED GRADE
61.35C	CONCRETE GRADE
61.35P	PAVEMENT GRADE
61.35FL	FLOW LINE GRADE
50.0	EXISTING CONTOUR
61.35EFL	EXISTING FLOW LINE GRADE
61.35EG	EXISTING GRADE
G.B. / RIDGE	GRADE BREAK / RIDGE LINE
1.92%	DRAINAGE DIRECTION AND SLOPE
FD PERF	PROPOSED PERFORATED STORM FLAT DRAIN LINE
▤	CATCH BASIN
▤	DRAIN INLET
▣	AREA DRAIN

KEY NOTES:

1	2% MAX SLOPE, ALL DIRECTIONS
2	5% MAX SLOPE IN DIRECTION OF TRAVEL, 2% MAX CROSS SLOPE
3	ACCESSIBLE RAMP, 8.33% MAX SLOPE IN THE DIRECTION OF TRAVEL, 2% MAX CROSS SLOPE.
4	ADJUST STRUCTURE/BOX TO GRADE
5	INSTALL FLAT DRAIN PER DETAIL 4 ON SHEET C5.0
6	INSTALL AREA DRAIN PER DETAIL 8 ON SHEET C5.0
7	INTERCEPT EXISTING STORM DRAIN LINE AND MAKE CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT OF STORM DRAIN LINE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF CONFLICTS.
8	INSTALL TRANSITION FROM FLAT DRAIN TO 4"Ø STORM DRAIN 24" PRIOR TO CONNECTION TO AREA DRAIN
9	ADJUST EXISTING STORM DRAIN INLET TO GRADE

0' 5' 10' 20'
SCALE: 1"=10'

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ADDENDUM 2

05/02/20222

Revisions

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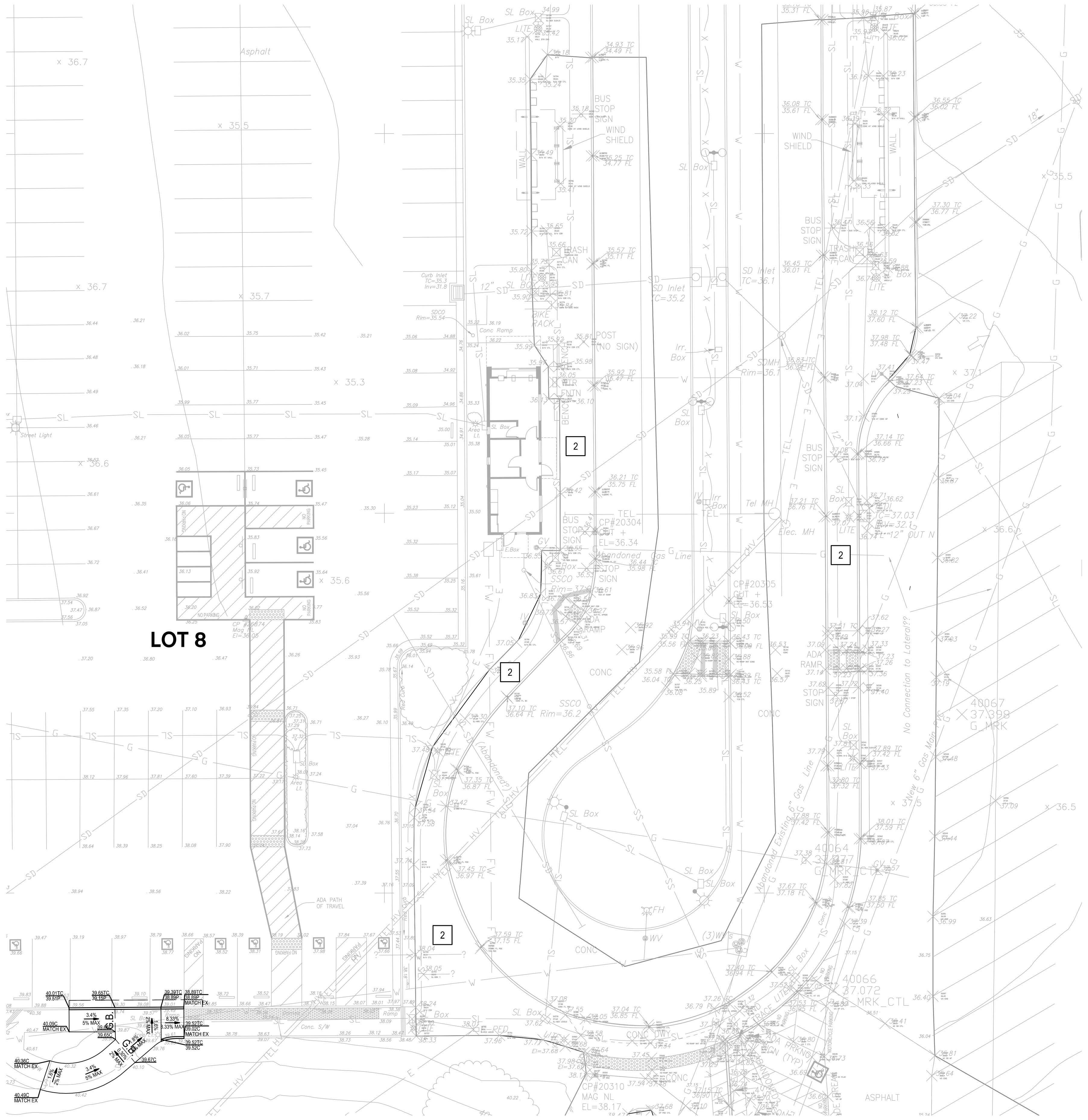
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER: 75-21809-00
SIEGFRIED PROJECT NUMBER: 21325

GRADING AND UTILITY PLAN - LOT 3

C4.1

F:\21projects\21325 Diablo Valley College Learning Center Ramp\Plans and Graphics\Improvement Plans\21325-C4.1 GRADING AND UTILITY PLAN - LOT 3.dwg



2 LOT 8 ACCESSIBLE PATH IMPROVEMENT
1"=20'

0' 10' 20' 40'
SCALE: 1"=20'

GRADING AND UTILITY LEGEND

61.35TC / 61.35P	TOP OF CURB GRADE / PAVEMENT GRADE
61.35TC / 61.35C	TOP OF CURB GRADE / CONCRETE GRADE
61.35TOW	TOP OF WALL GRADE
FF = 61.35	FINISHED FLOOR ELEVATION
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G.B. / RIDGE	GRADE BREAK / RIDGE LINE
1.92%	DRAINAGE DIRECTION AND SLOPE
FD PERF	PROPOSED PERFORATED STORM FLAT DRAIN LINE
▤	CATCH BASIN
▤	DRAIN INLET
▣	AREA DRAIN

KEY NOTES:

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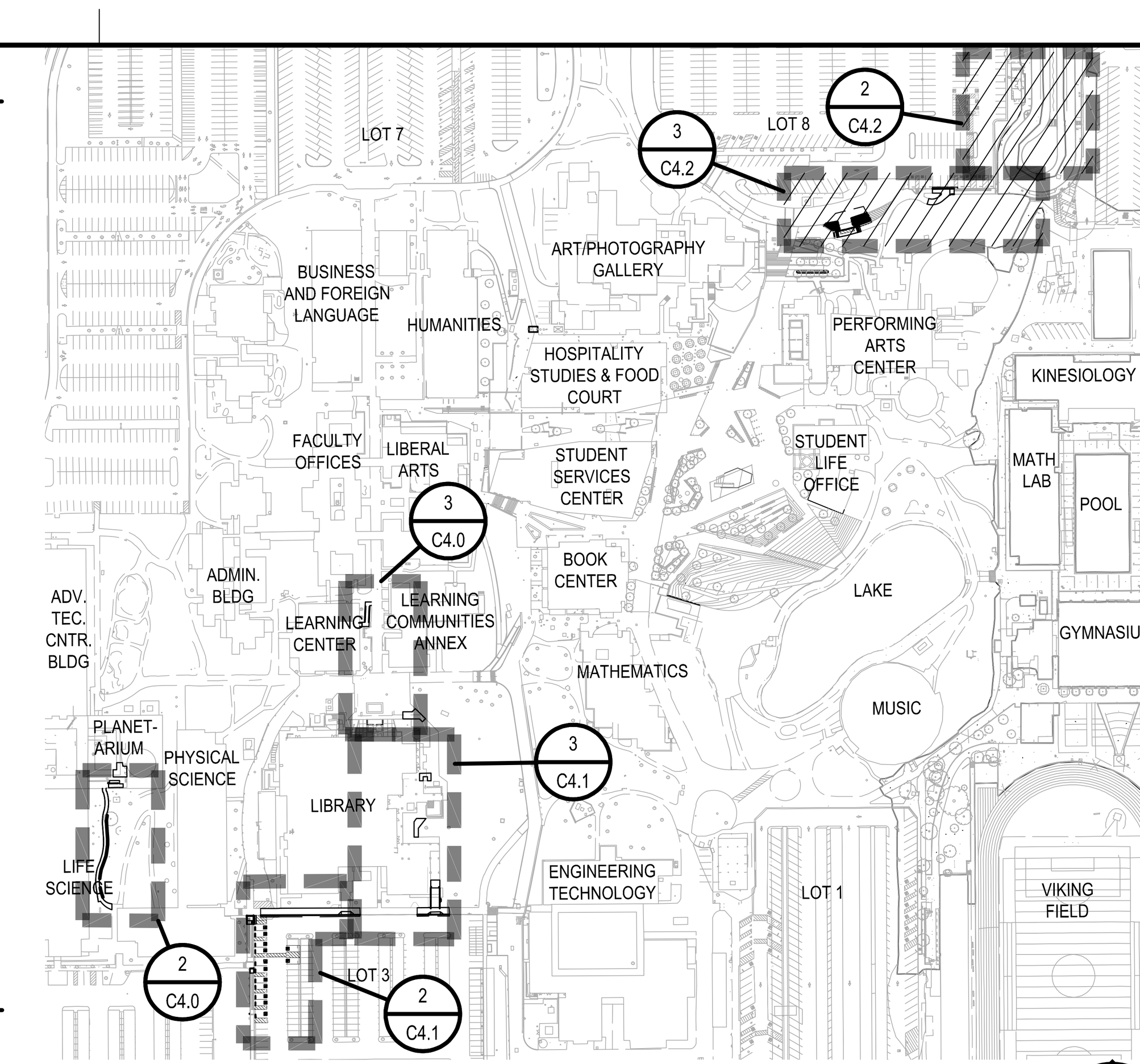
9	ADJUST EXISTING STORM DRAIN INLET TO GRADE



1 KEY MAP
1"=200'

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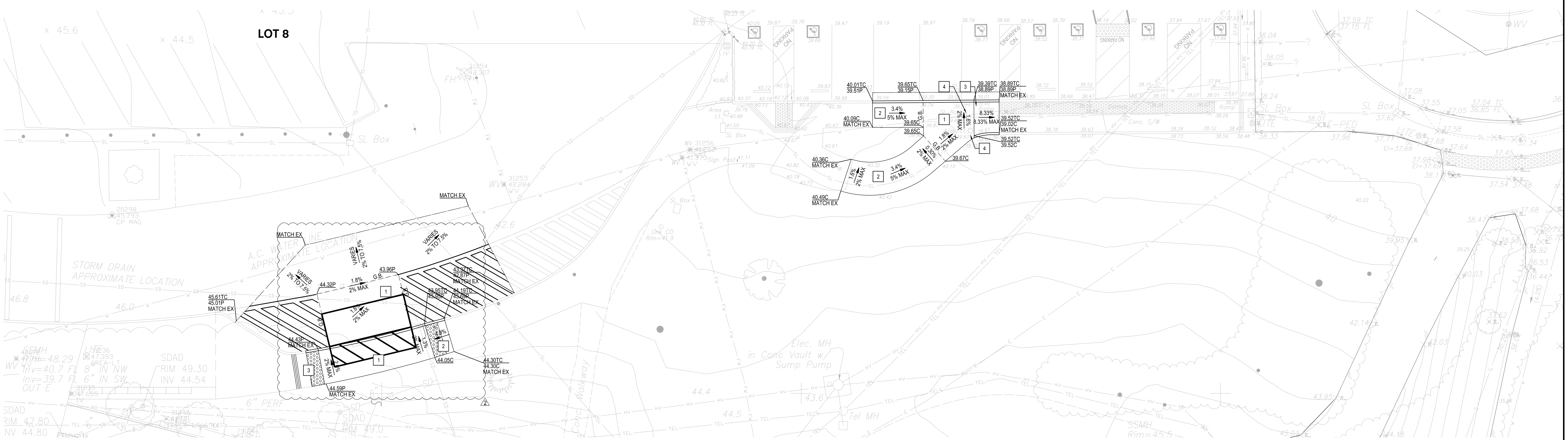

3 LOT 8 ACCESSIBLE PATH IMPROVEMENT
1"=10'

0' 5' 10' 20'
SCALE: 1"=10'

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ADDENDUM 2

05/02/20222

Revisions

1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER: 75-21809-00
SIEGFRIED PROJECT NUMBER: 21325

GRADING AND UTILITY PLAN - LOT 8

C4.2

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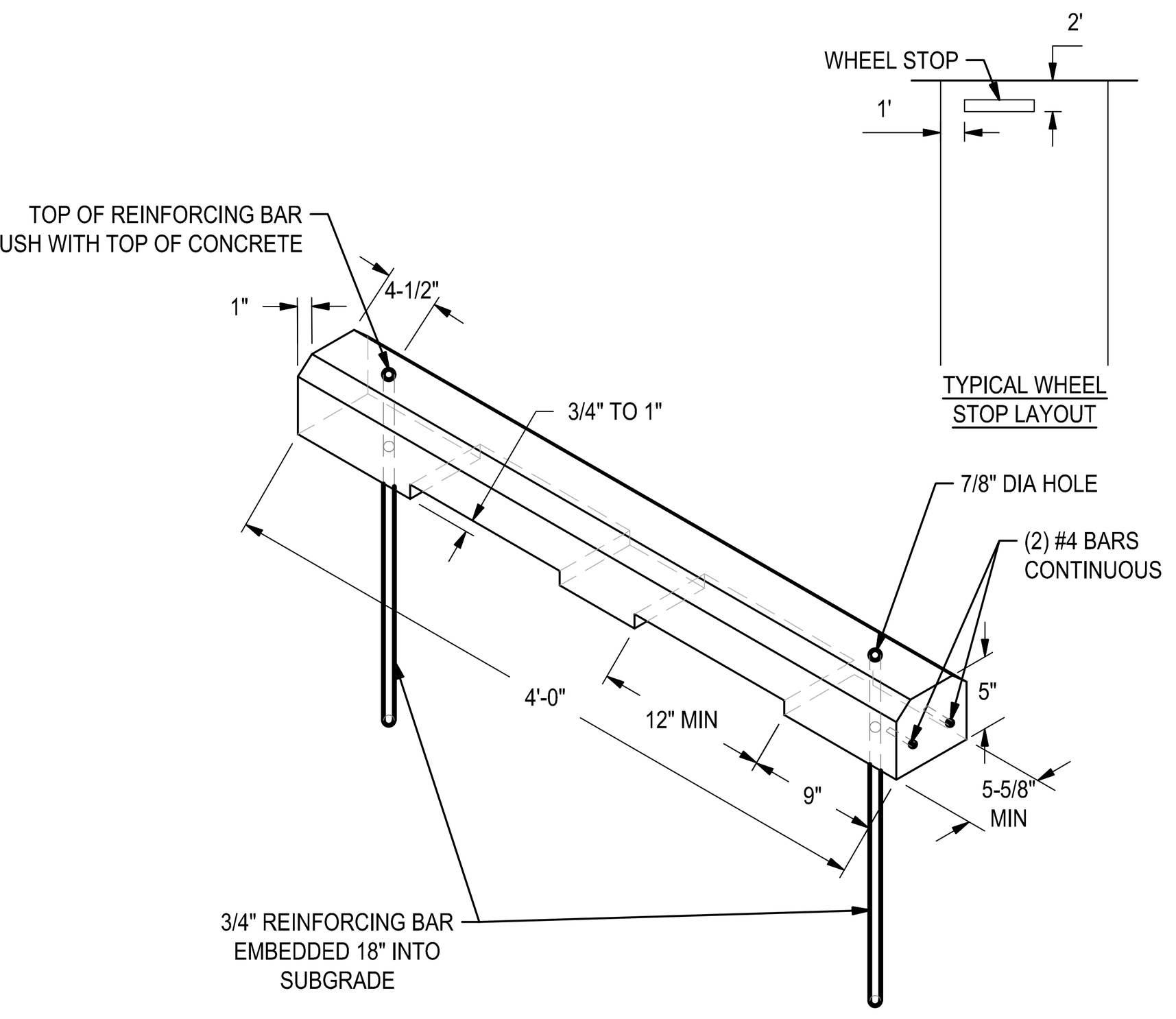
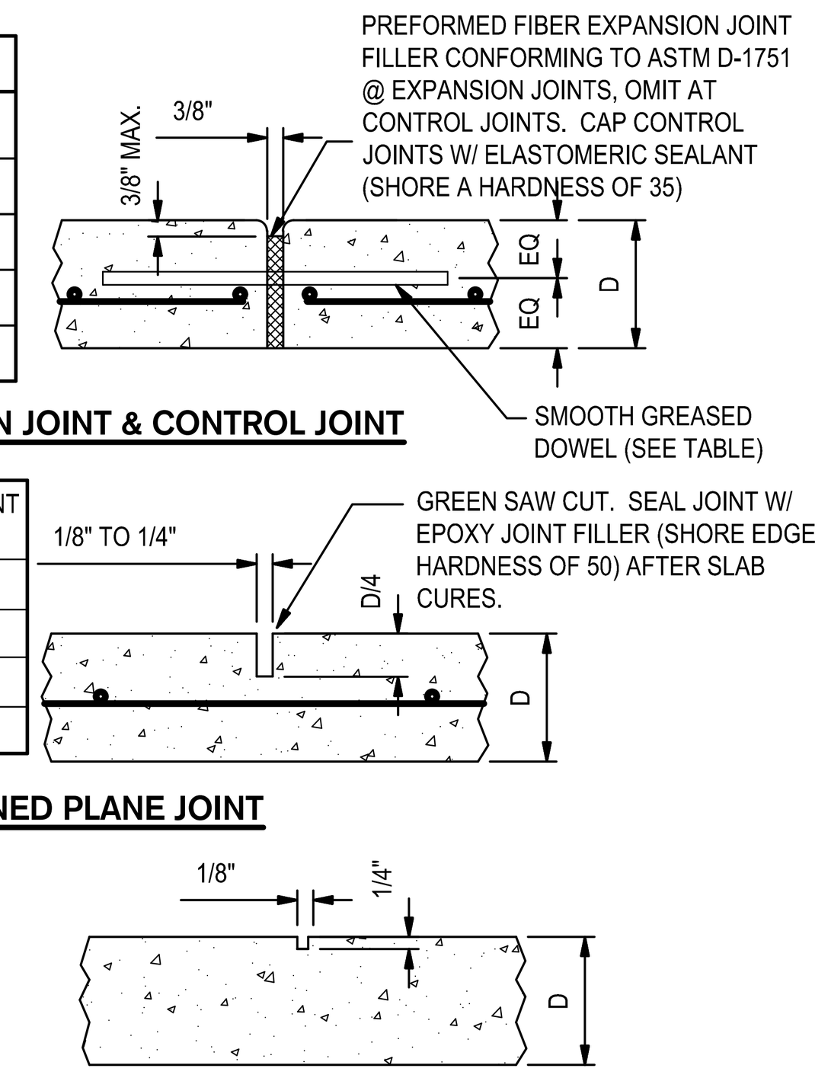


1 4' WHEEL STOP
NO SCALE

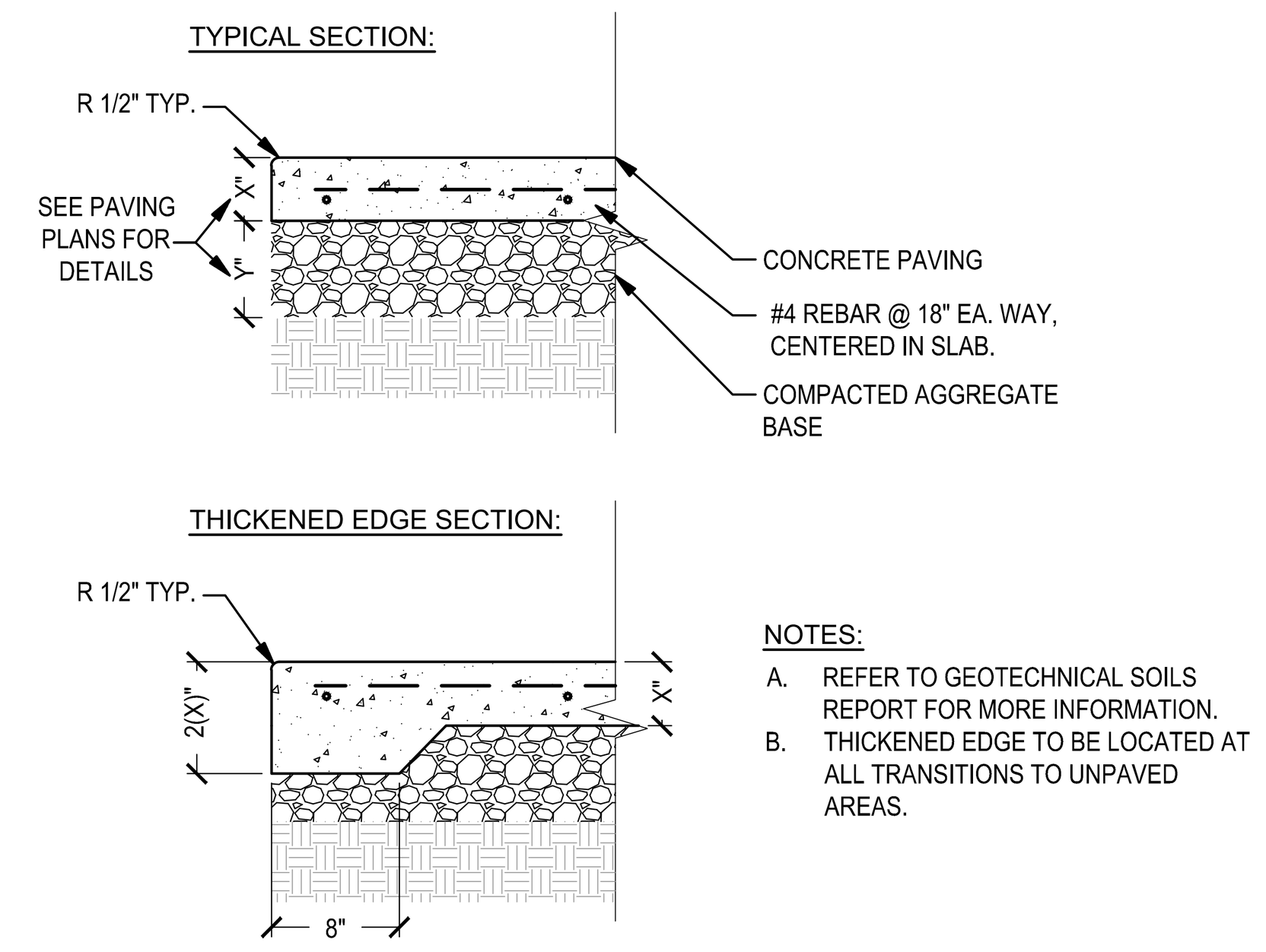
DOWEL SIZE & SPACING			
SLAB DEPTH	DIAMETER	LENGTH	SPACING
4"	5/8"	12"	24" O.C.
6"	3/4"	18"	18" O.C.
8"	1"	24"	18" O.C.
10"	1"	24"	12" O.C.

SLAB THICKNESS	WPJ SPACING (EACH WAY)	CONTROL JOINT SPACING
4"	8' O.C. MAX.	32' O.C. MAX.
6"	12' O.C. MAX.	36' O.C. MAX.
8"	16' O.C. MAX.	40' O.C. MAX.
10"	N/A	40' O.C. MAX.



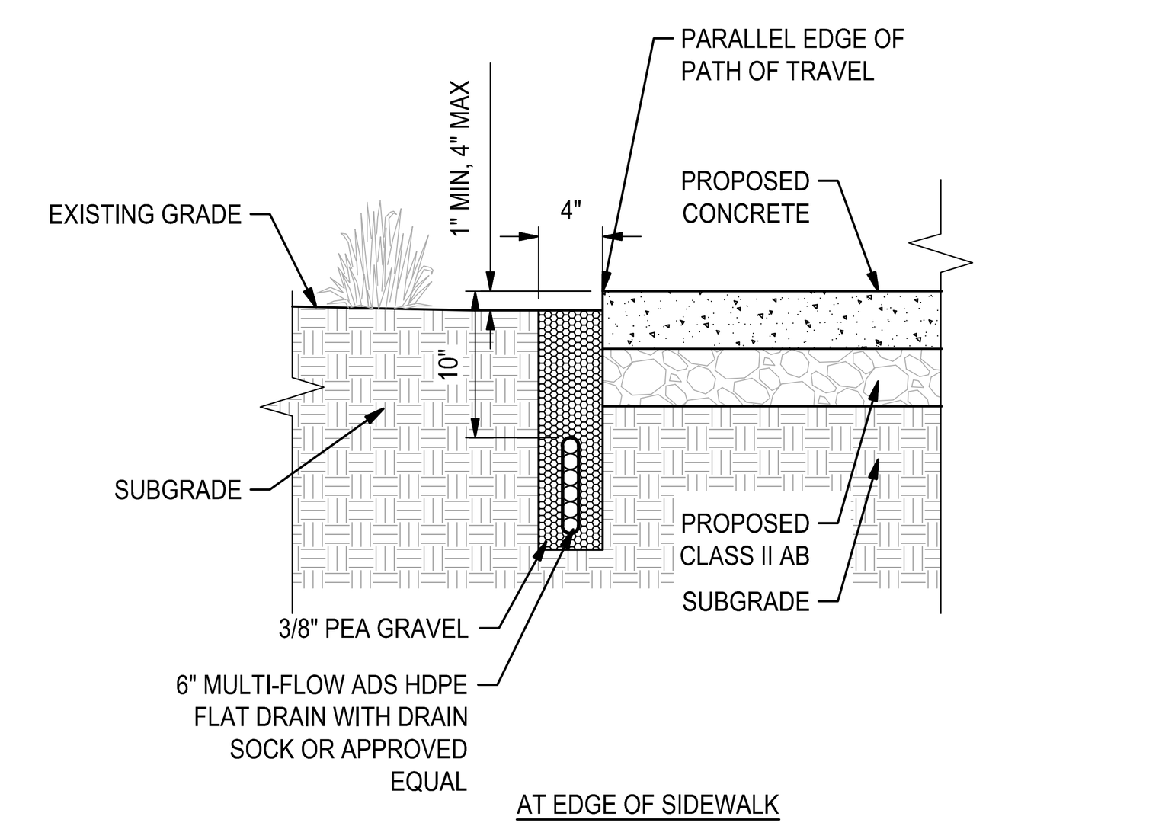
NOTE:
SCORE JOINT SPACING SHALL BE PLACED 5'-0" O.C. UNLESS OTHERWISE NOTED ON PLANS

2 TYPICAL CONCRETE JOINT DETAILS
NO SCALE

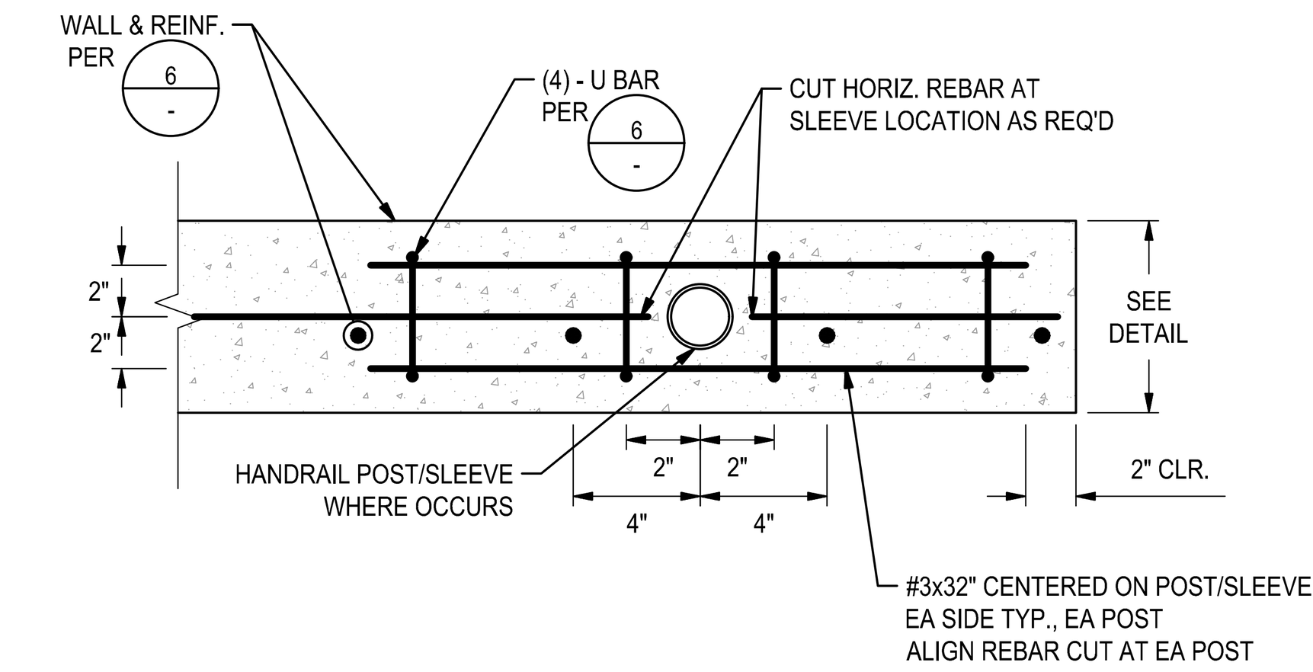


NOTES:
A. REFER TO GEOTECHNICAL SOILS REPORT FOR MORE INFORMATION.
B. THICKENED EDGE TO BE LOCATED AT ALL TRANSITIONS TO UNPAVED AREAS.

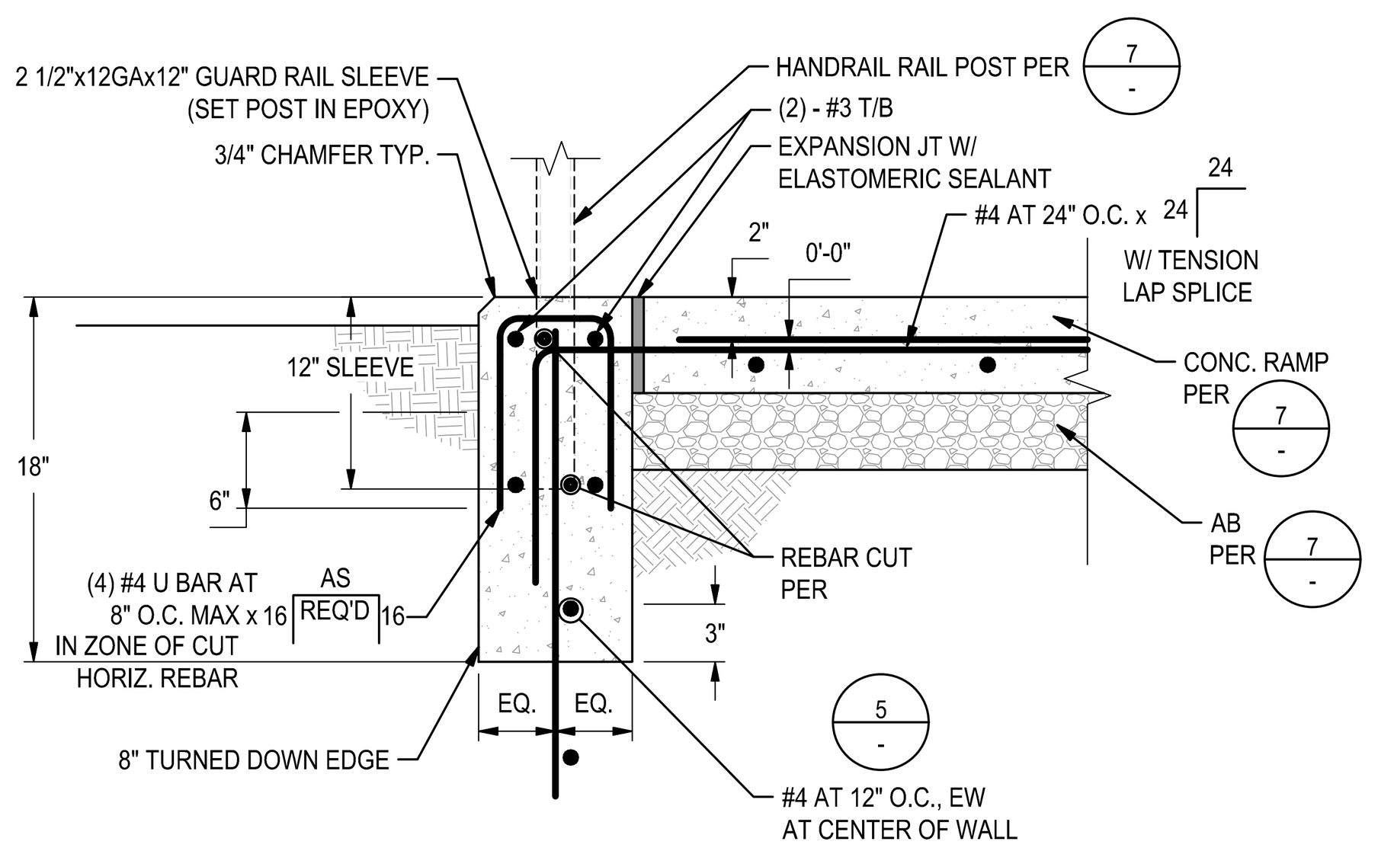
3 CONCRETE PAVING
NO SCALE



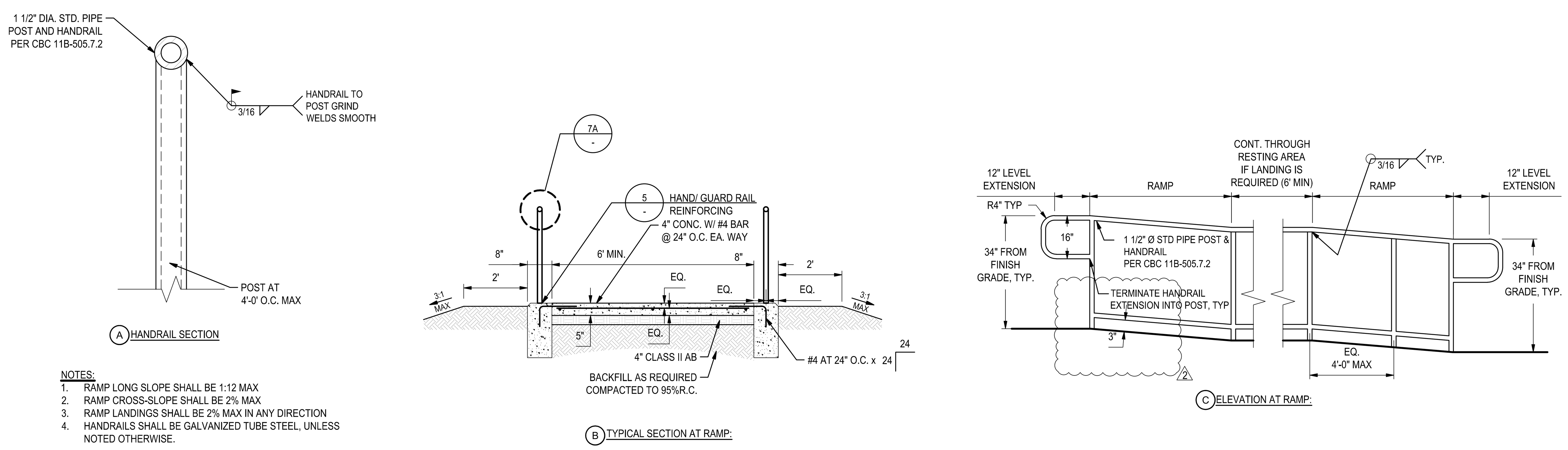
4 FLAT DRAIN
NO SCALE



5 HAND/ GUARD RAIL REINFORCING
NOT TO SCALE

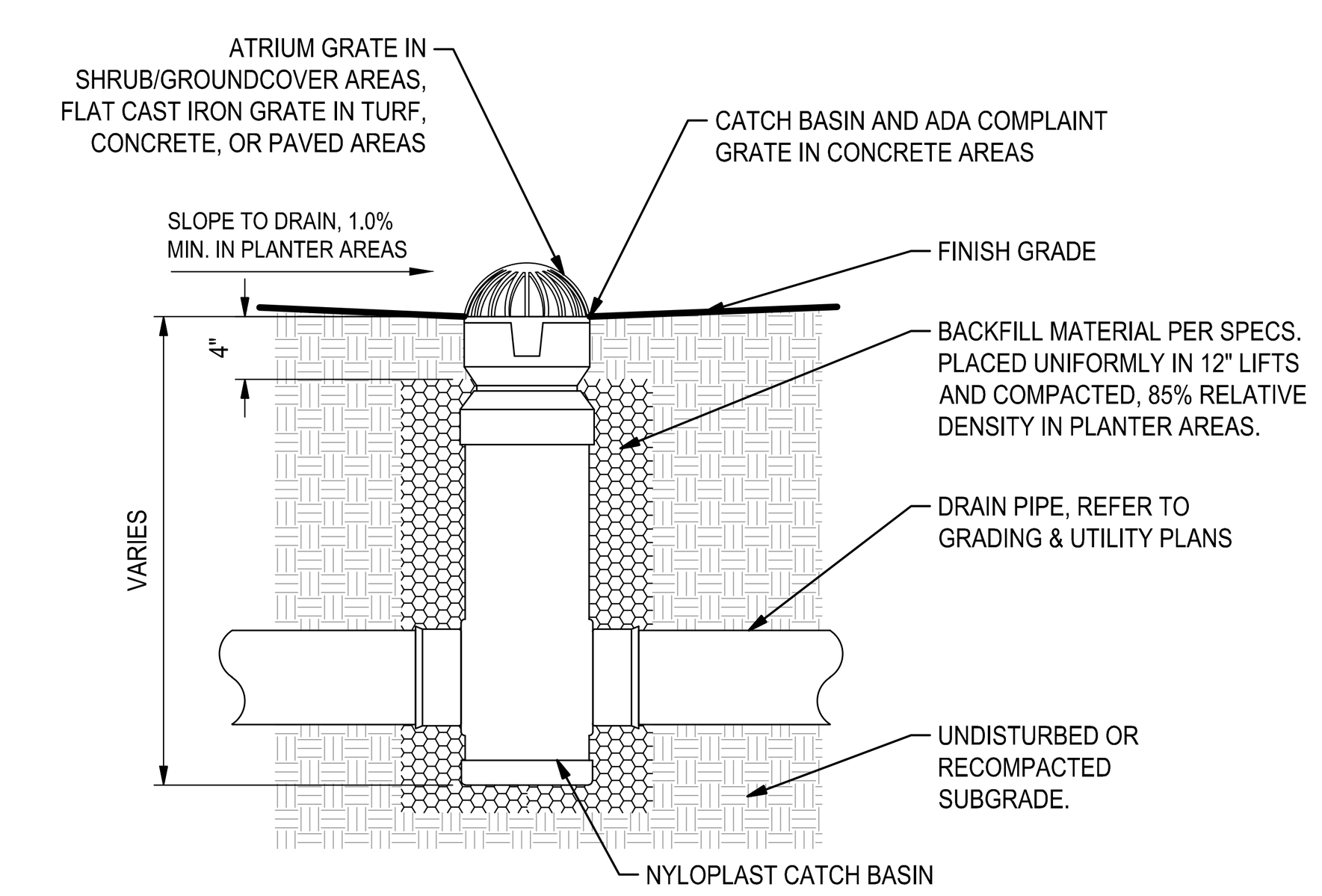


6 RAMP TURNED DOWN EDGE DETAIL
NOT TO SCALE

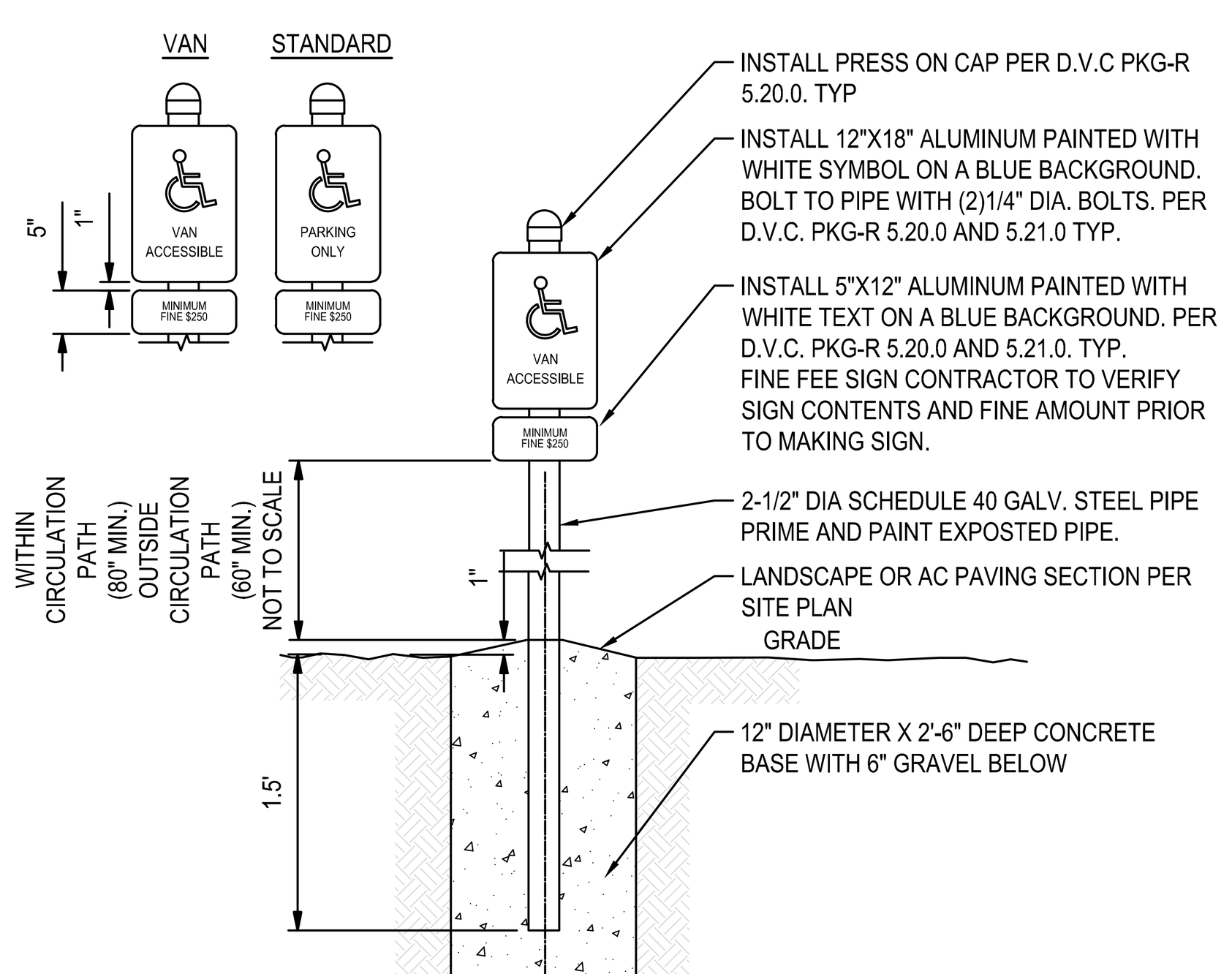


NOTES:
1. RAMP LONG SLOPE SHALL BE 1:12 MAX
2. RAMP CROSS-SLOPE SHALL BE 2% MAX
3. RAMP LANDINGS SHALL BE 2% MAX IN ANY DIRECTION
4. HANDRAILS SHALL BE GALVANIZED TUBE STEEL, UNLESS NOTED OTHERWISE.

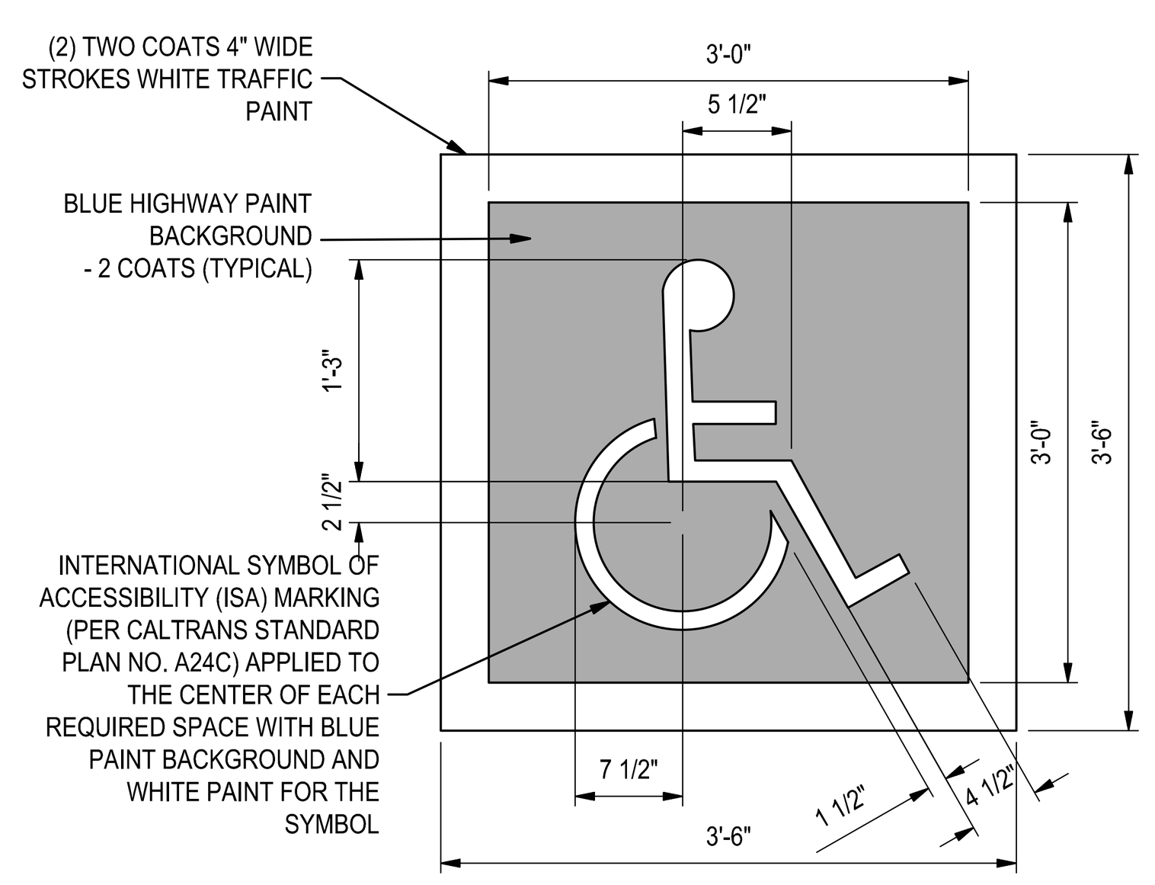
7 ACCESSIBLE RAMP
NOT TO SCALE



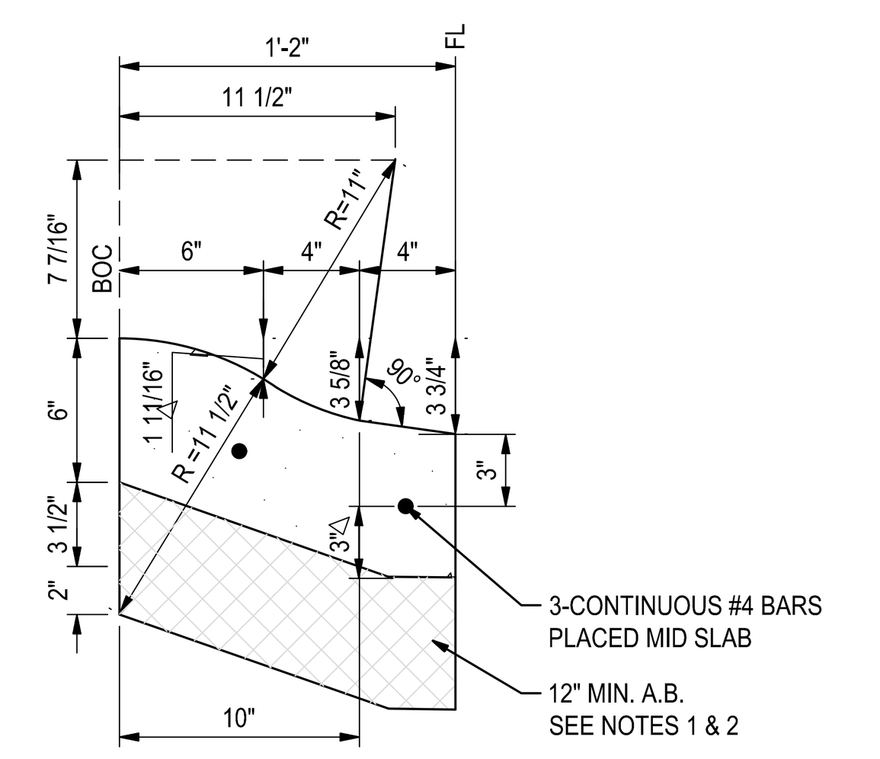
8 AREA DRAIN INLET
NO SCALE



9 ACCESSIBLE PARKING SIGNAGE
NO SCALE

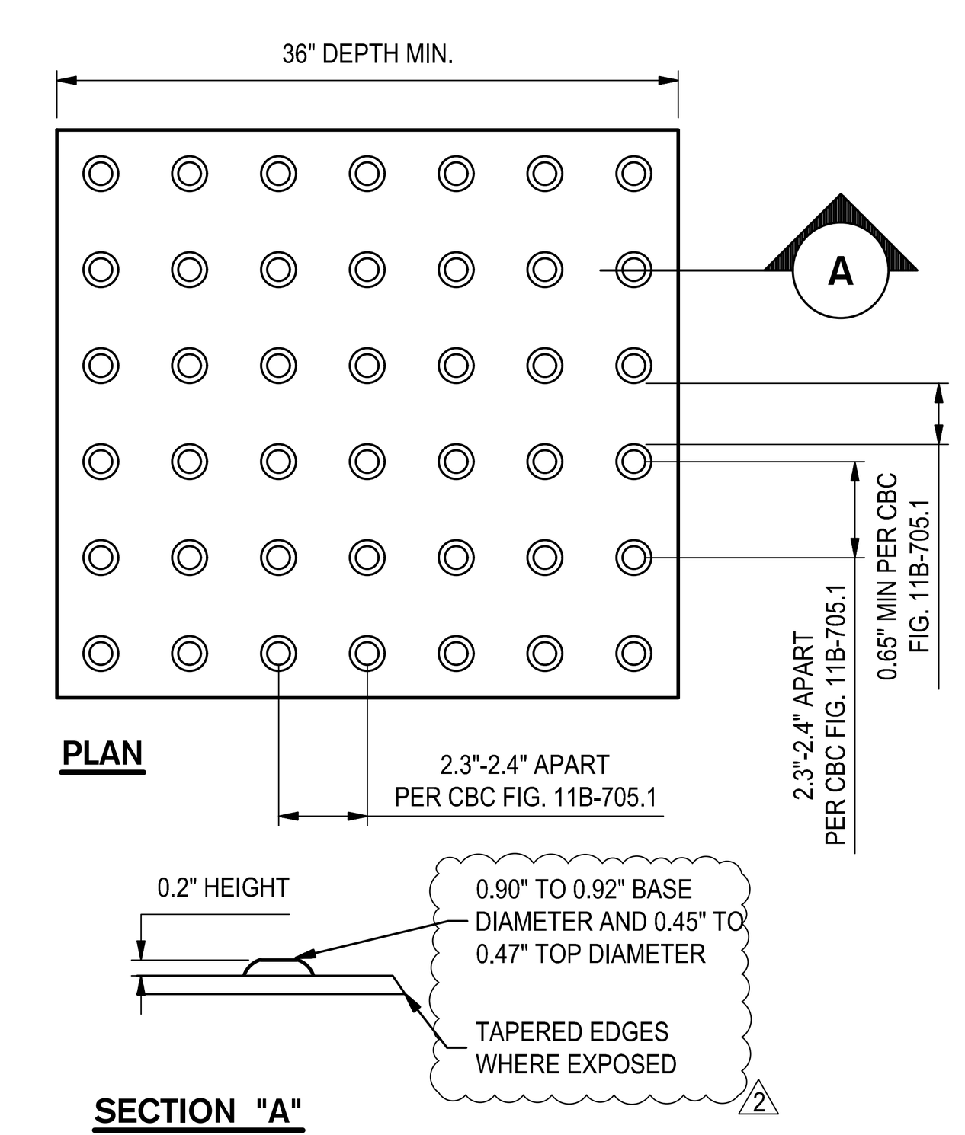


10 ACCESSIBLE PARKING SYMBOL
NO SCALE

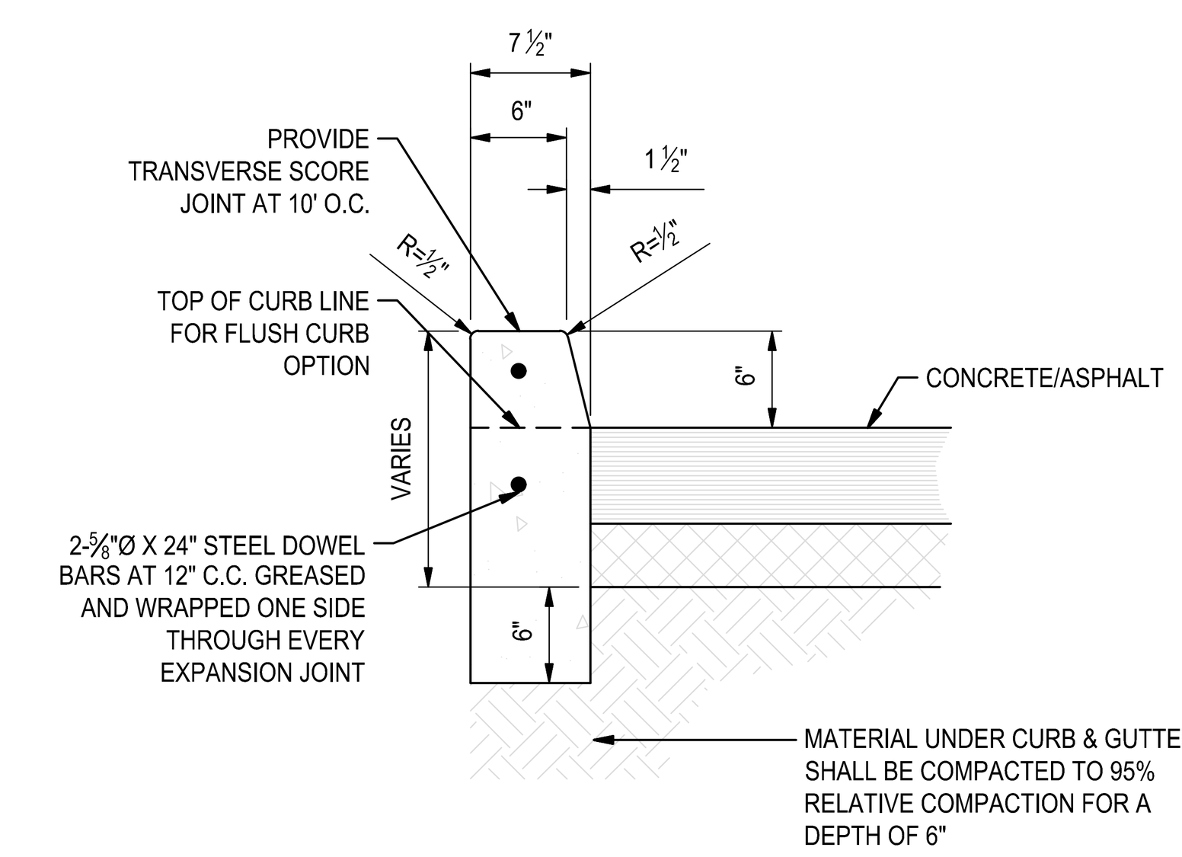


NOTES:
1. TOP 6" OF SUBGRADE SHALL BE COMPACTED TO 95% MIN., UNLESS OTHERWISE APPROVED.

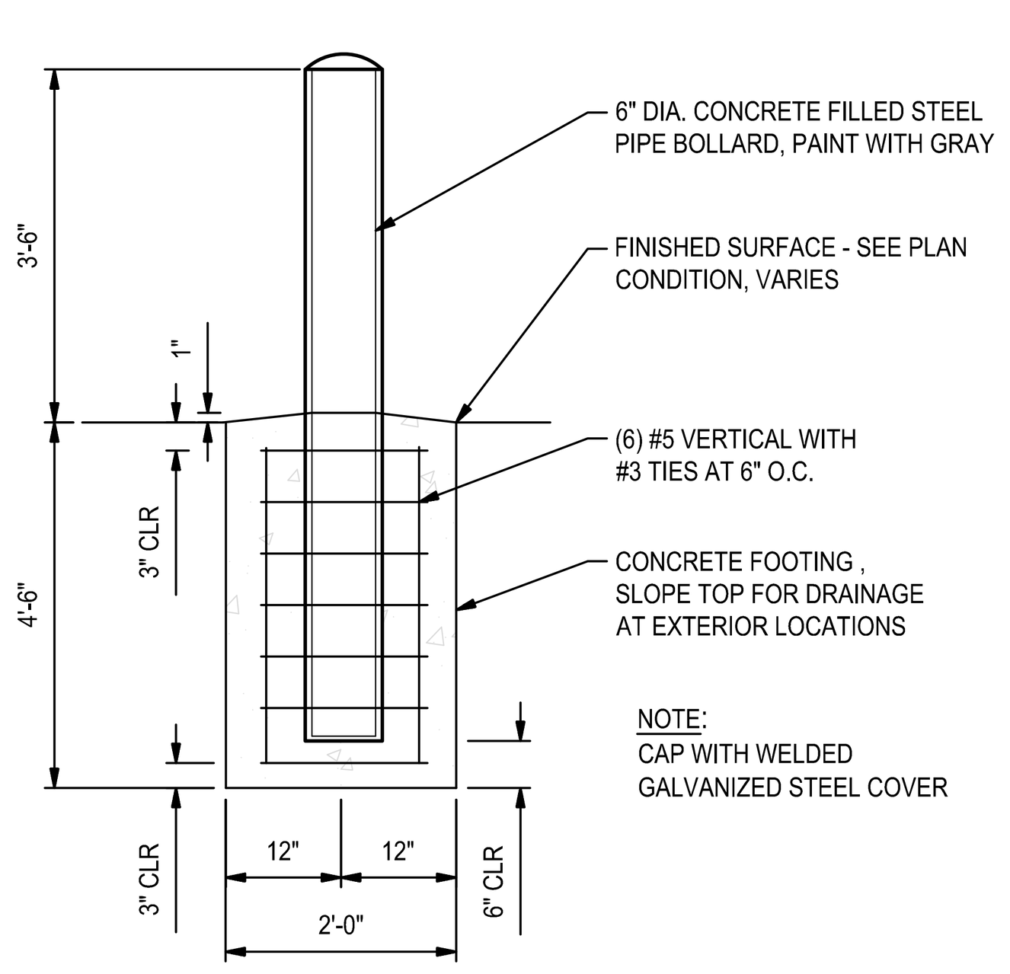
11 4" ROLLED CURB & GUTTER
NO SCALE



12 TRUNCATED DOMES
NO SCALE



13 6" VERTICAL OR FLUSH CURB
NO SCALE



NOTE:
CAP WITH WELDED GALVANIZED STEEL COVER

14 STEEL BOLLARD
NO SCALE

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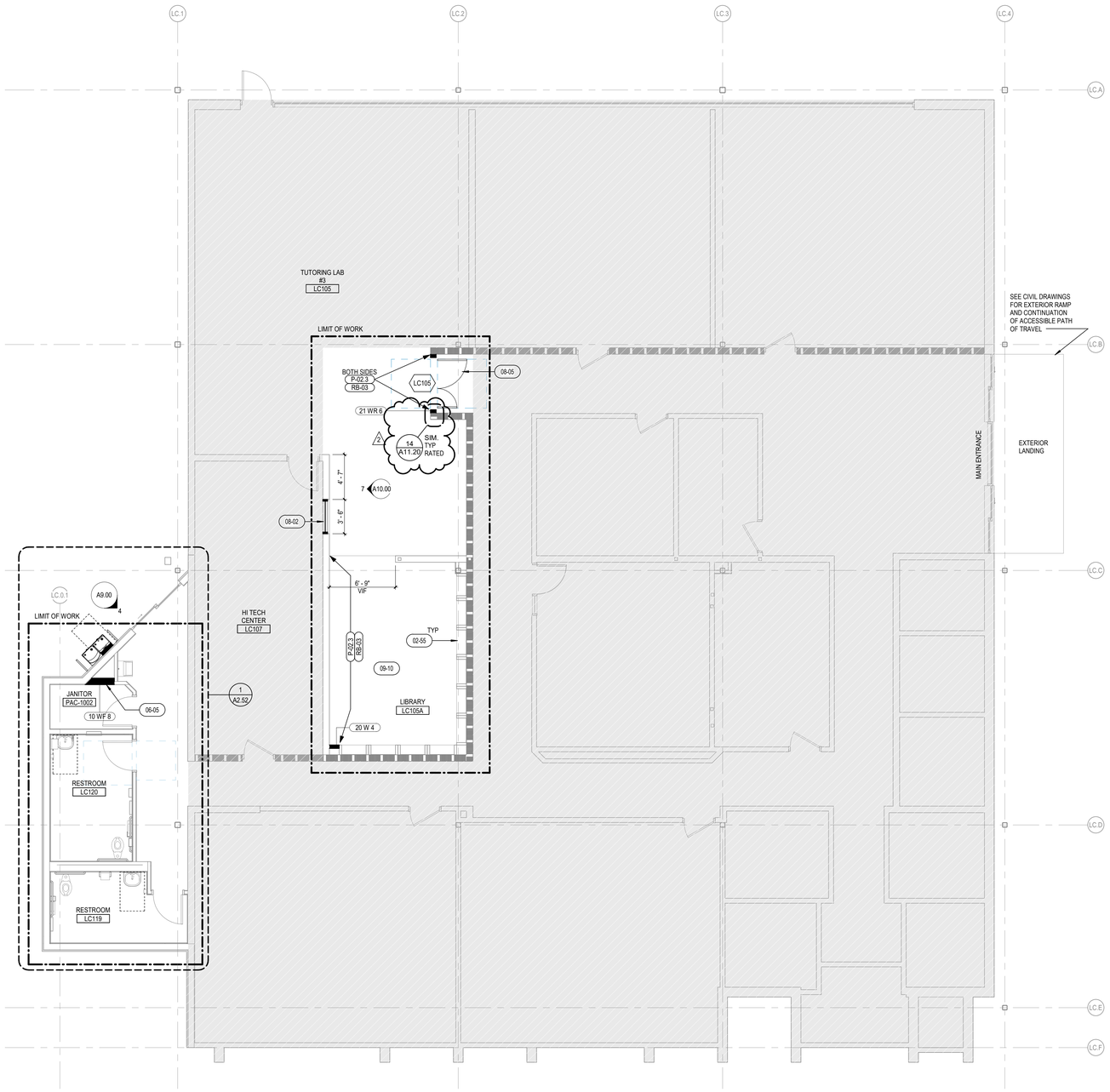
DETAILS I

1

C5.0



N

1 / A1.22 LEARNING CENTER - FLOOR PLAN - LEVEL 1

SCALE: 3/16" = 1'-0"

LEGEND AND NOTES

GENERAL ARCHITECTURAL NOTES

1. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: (## XX #) SEE SHEET A8.00 FOR WALL TYPES.
2. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES.
3. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00.
4. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS, DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS.
5. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01.
6. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
7. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND S6.2 TO S6.3.
8. WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO MATCH EXISTING, CONTRACTOR SHALL VERIFY PRODUCTS WITH OWNER AND ARCHITECT, INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS.
9. PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.
10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK.
11. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED OTHERWISE.
12. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

REFERENCE KEYNOTES

02-55	EXISTING IN-WALL BOOKSHELVES TO REMAIN
06-05	REFRAME WALL AFTER INSTALLATION OF PLUMBING FOR NEW DRINKING FOUNTAIN
08-02	NEW WINDOW, SEE INTERIOR ELEVATIONS FOR GLASS TYPES (EG/IG/L FOUND IN FINISH SCHEDULE)
08-05	NEW FIRE RATED DOOR (20-MINUTE), SEE 14/A11.20 AND 16/A11.20
09-10	PATCH AND REPAIR CEILING IN THIS ROOM IN AREAS WITH DEMOLISHED PARTITIONS AND SOFFITS. MATCH EXISTING CEILING GRID AND PANELS. ADD FRAMING AND TILES AS NEEDED TO FILL THE ENTIRETY OF THE CEILING.

PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- EXISTING 1-HR RATED WALLS
- NOT IN SCOPE
- LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

DSA APPROVAL STAMP

LICENSED ARCHITECT
IRENE MONIS
C 27579
REN. 11-30-23
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DLR Group
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DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022

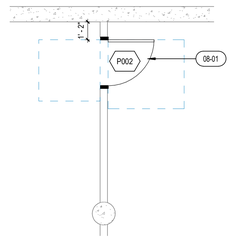
Revisions

2	05/02/2022	ADDENDUM 2

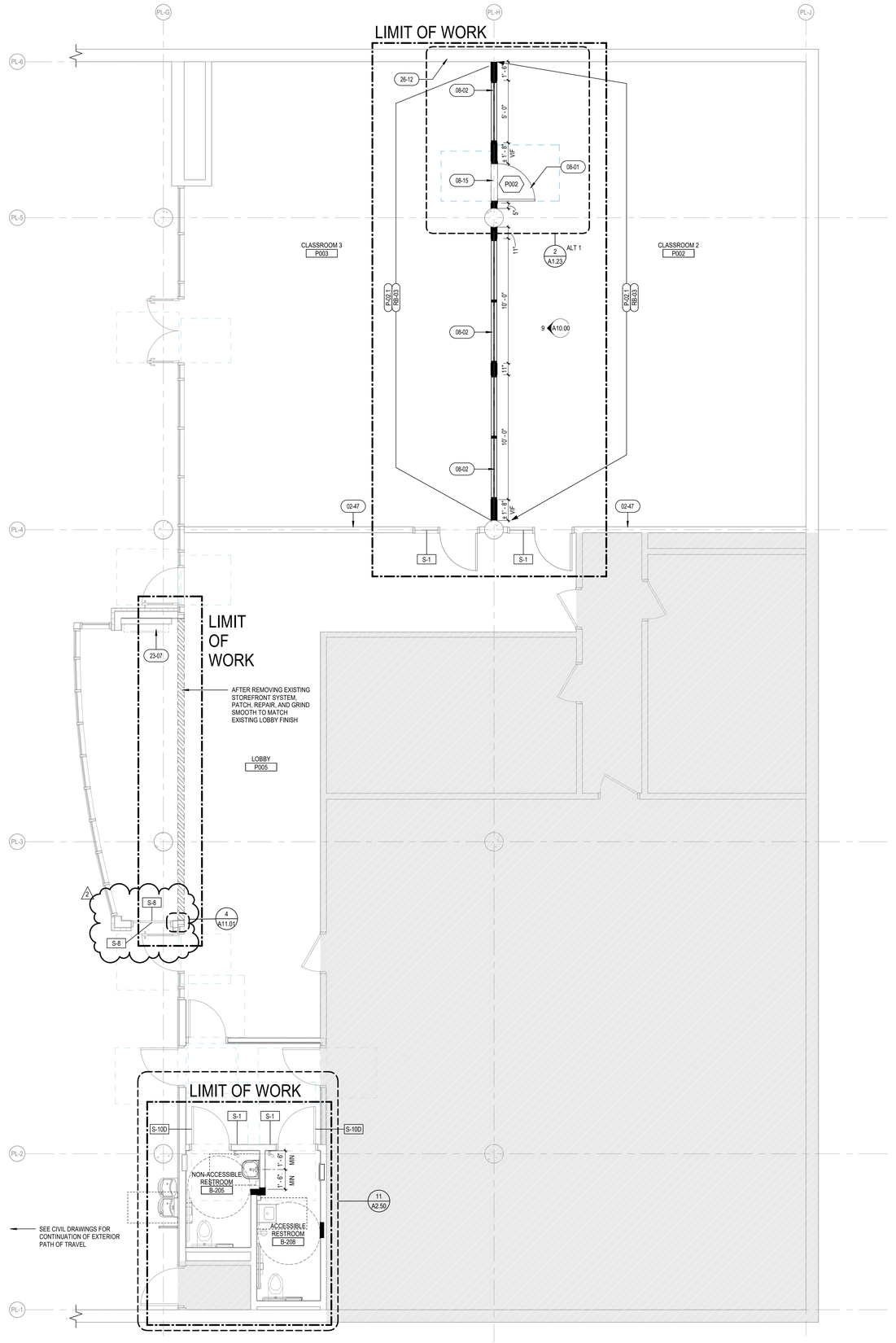
DLR GROUP PROJECT NUMBER:
75-21809-00

STUDENT SERVICES - LEARNING CENTER - LEVEL 1 FLOOR PLAN

A1.22



2 A1.23 PLANETARIUM - CLASSROOM - PARTIAL PLAN - ALT 1
SCALE: 1/4" = 1'-0"



N

1 A1.23 PLANETARIUM - FLOOR PLAN - LEVEL 1
SCALE: 1/4" = 1'-0"

LEGEND AND NOTES

GENERAL ARCHITECTURAL NOTES

1. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: (## XX #) SEE SHEET A8.00 FOR WALL TYPES.
2. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES.
3. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00.
4. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS, DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS.
5. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01.
6. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
7. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND S6.2 TO S6.3.
8. WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO MATCH EXISTING, CONTRACTOR SHALL VERIFY PRODUCTS WITH OWNER AND ARCHITECT, INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS.
9. PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.
10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK.
11. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED OTHERWISE.
12. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

REFERENCE KEYNOTES

02-47	EXISTING FIRE ALARM DEVICE TO REMAIN, TYP
08-01	NEW DOOR, SEE INTERIOR ELEVATIONS OR DOOR SCHEDULE FOR GLASS TYPE (EGL/IGL FOUND IN FINISH SCHEDULE)
08-02	NEW WINDOW, SEE INTERIOR ELEVATIONS FOR GLASS TYPES (EGL/IGL FOUND IN FINISH SCHEDULE)
08-15	FLOOR PLATE THRESHOLD TO SPAN WITH OF DOOR OPENING AND OVERLAP FINISHES ON BOTH SIDES OF THE WALL OPENING
23-07	EXISTING MECHANICAL EQUIPMENT TO REMAIN IN PLACE. (S.M.D.)
26-12	EXISTING NOTIFICATION SYSTEM TO BE RELOCATED HERE (S.E.D.)

PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- EXISTING 1-HR RATED WALLS
- NOT IN SCOPE
- LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

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ADDENDUM 2

05/02/2022
Revisions
2 05/02/2022 ADDENDUM 2

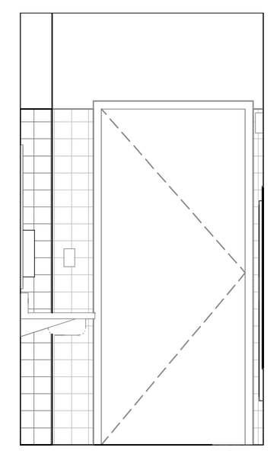
DLR GROUP PROJECT NUMBER:
75-21809-00

STUDENT SERVICES - PLANETARIUM - LEVEL 1 FLOOR PLAN

A1.23

NOTE:

AT RESTROOMS, WHEN MODIFICATIONS OR DEMOLITION OF WALL FRAMING AND/OR WALL & FLOOR FINISHES ARE REQUIRED, THE PATCH AND REPAIR SHALL EXTEND TO A DATUM POINT ESTABLISHED BY THE ARCHITECT TO TERMINATE FINISHES. BOUNDARIES BETWEEN EXISTING AND NEW FINISHES SHALL BE ESTABLISHED IN RELATIONSHIP TO NEARBY ELEMENTS, INCLUDING BUT NOT LIMITED TO WALLS, RESTROOM PARTITIONS, RESTROOM ACCESSORIES AND EXISTING FINISH EXTENTS.



19 A2.50 INT ELEV - P208 RESTROOM 4
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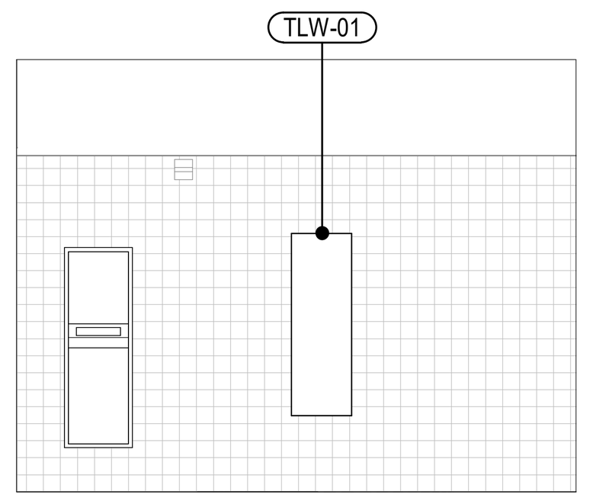
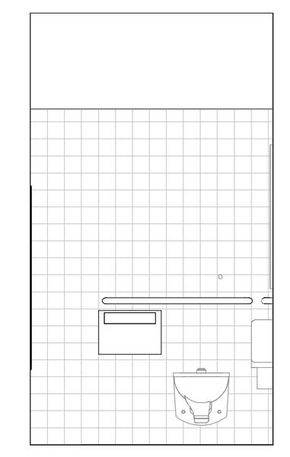


18 A2.50 INT ELEV - P208 RESTROOM 3
SCALE: 1/4" = 1'-0"



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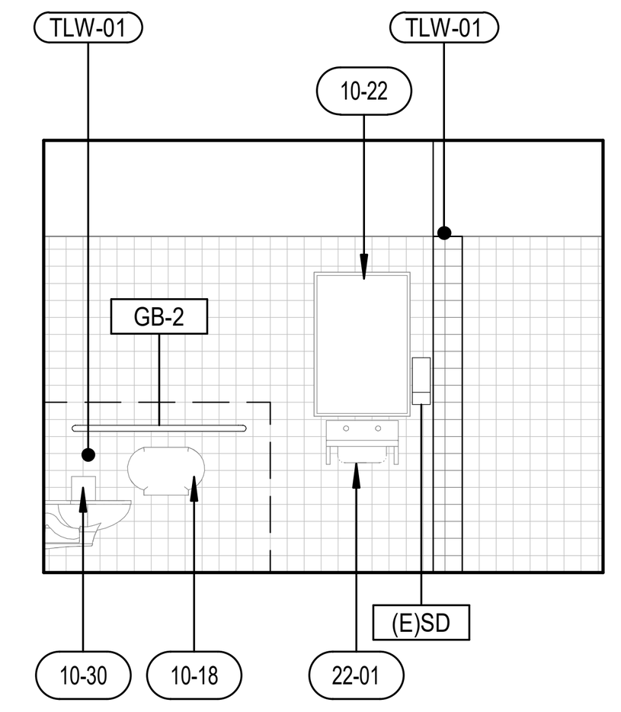

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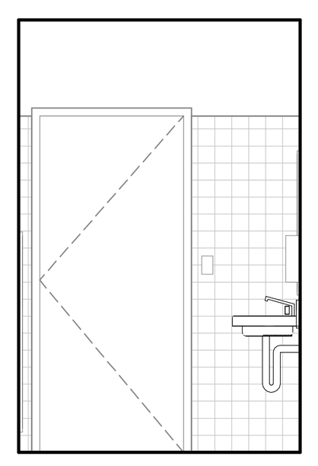
SCALE: 1/4" = 1'-0"



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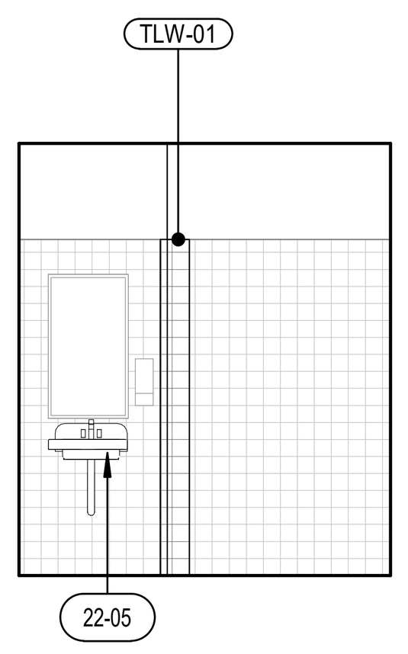

14 A2.50 INT ELEV - P205 RESTROOM 3
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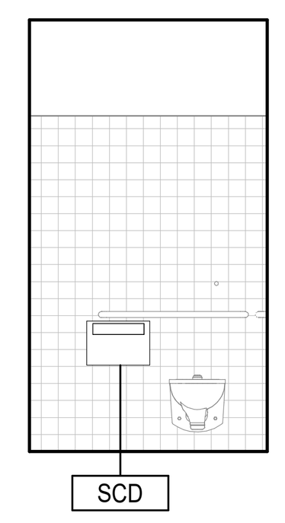
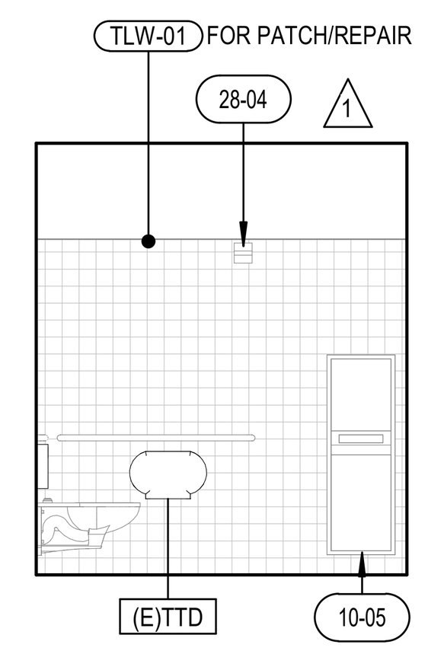
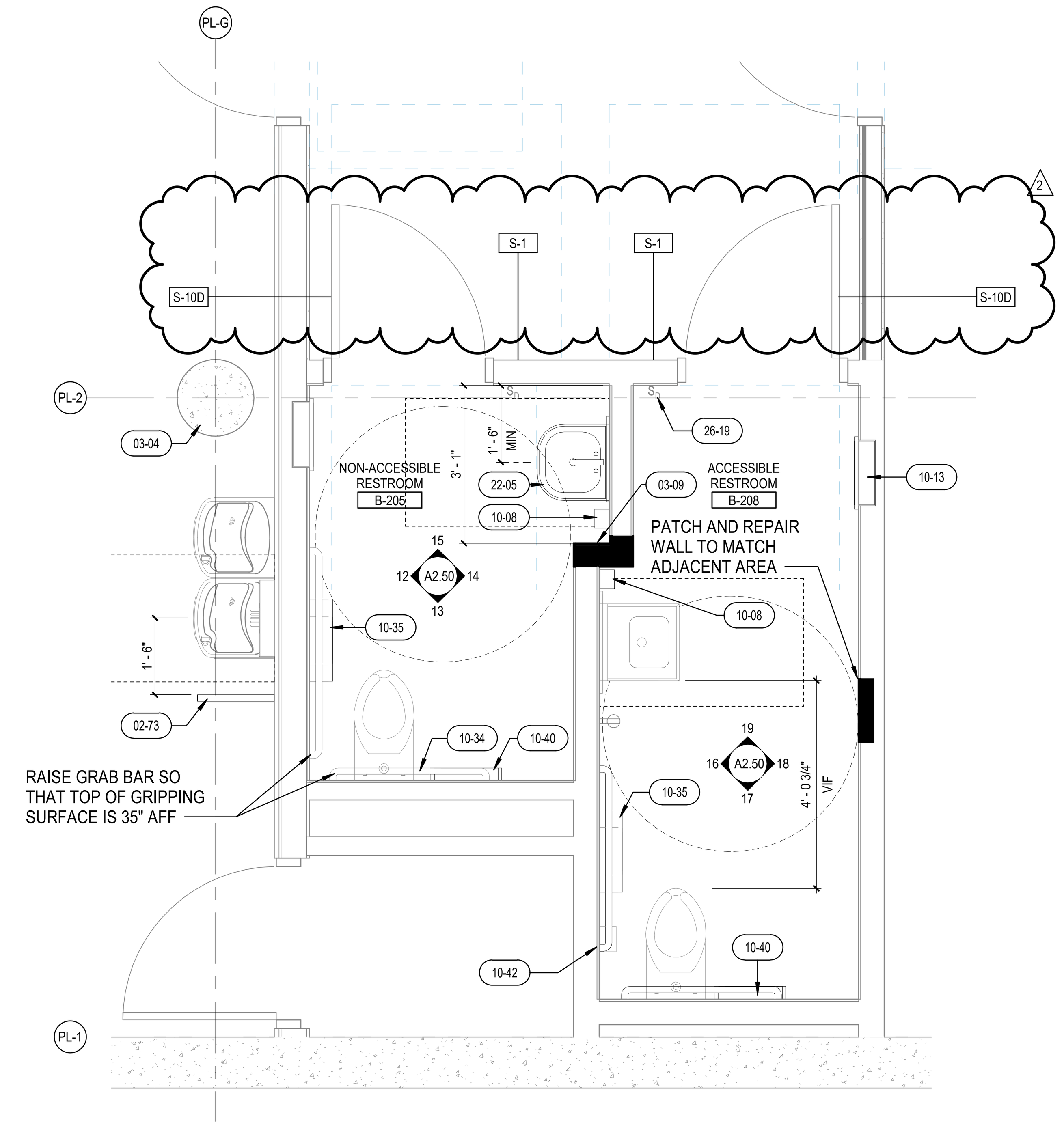


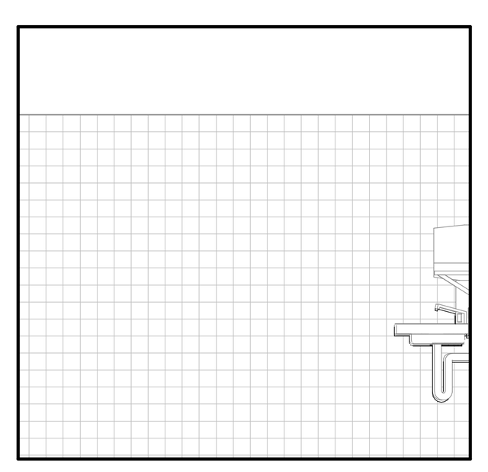
13 A2.50 INT ELEV - P205 RESTROOM 2
SCALE: 1/4" = 1'-0"



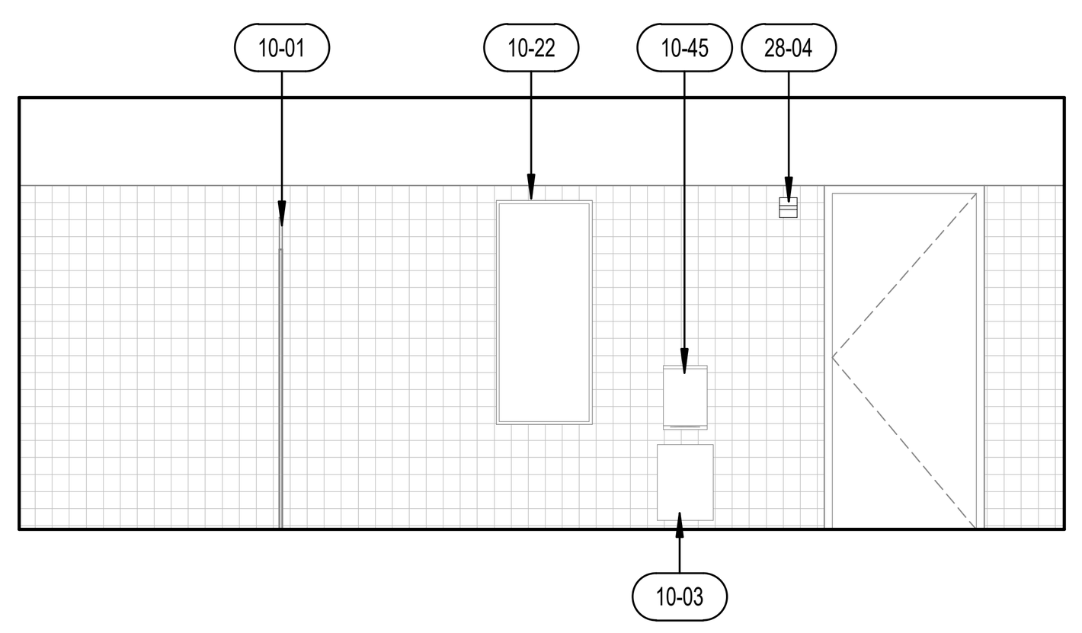
12 A2.50 INT ELEV - P205 RESTROOM 1
SCALE: 1/4" = 1'-0"



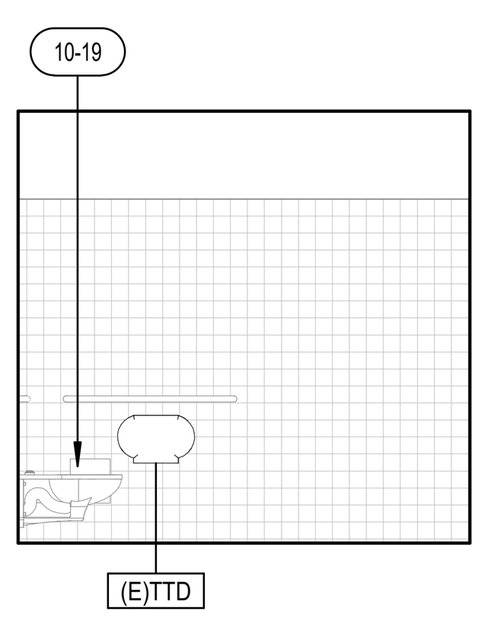
11 A2.50 PLANETARIUM - RESTROOMS - ENLARGED PLAN
SCALE: 1/2" = 1'-0"



10 A2.50 INT ELEV - H109 WOMEN S RESTROOM 4
SCALE: 1/4" = 1'-0"



9 A2.50 INT ELEV - H109 WOMEN S RESTROOM 3
SCALE: 1/4" = 1'-0"



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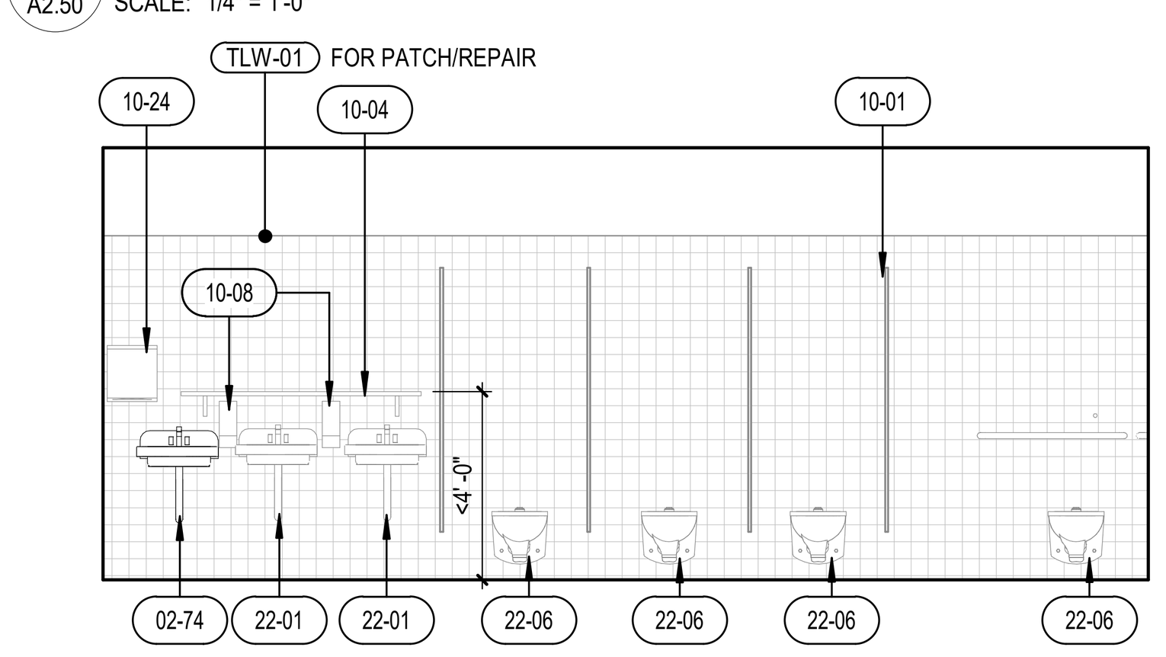
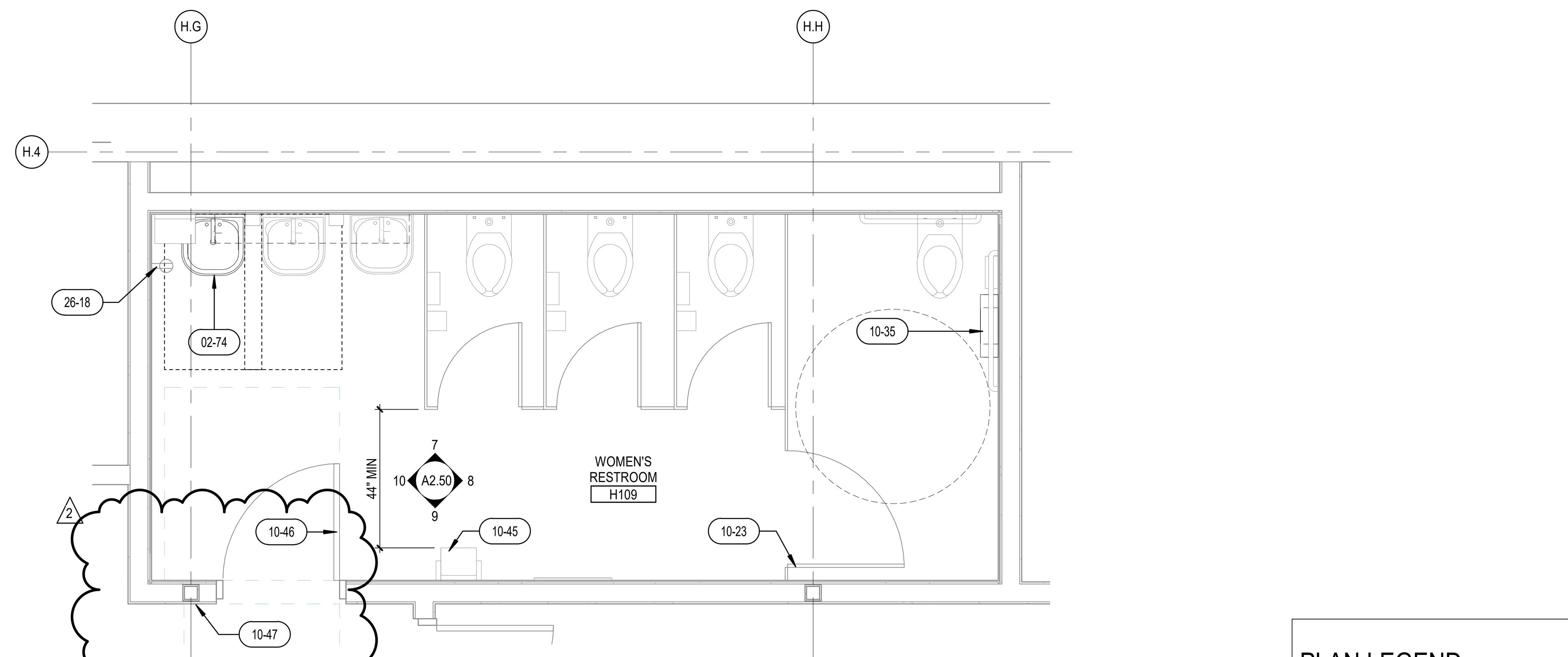
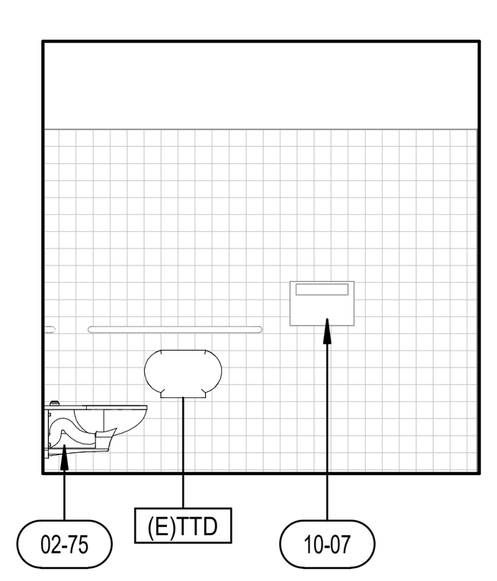
SCALE: 1/4" = 1'-0"



7 A2.50 INT ELEV - H109 WOMEN S RESTROOM 1
SCALE: 1/4" = 1'-0"



6 A2.50 PARTIAL PLAN - STUDENT UNION - WOMEN'S RESTROOM
SCALE: 3/8" = 1'-0"



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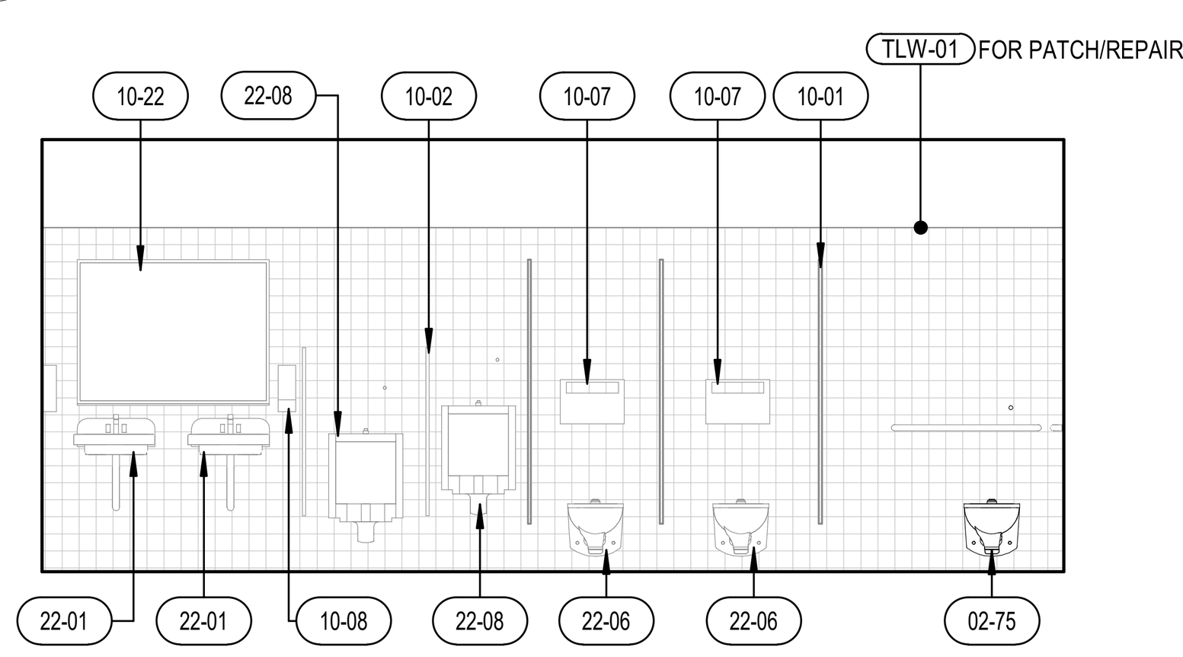
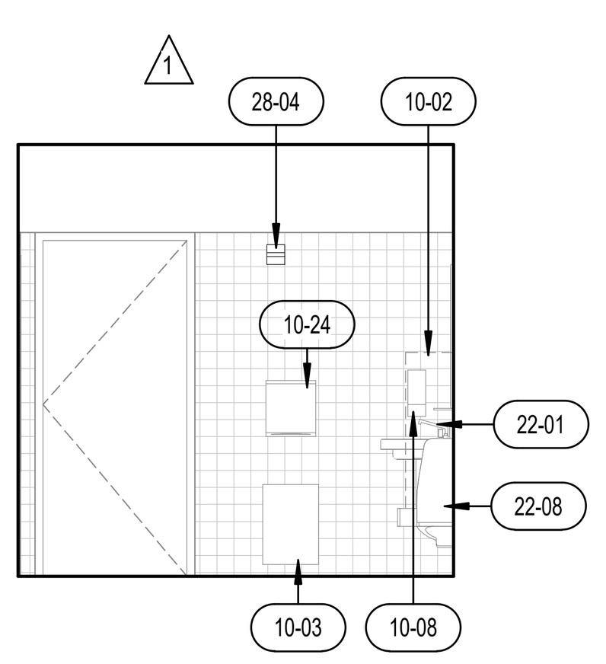
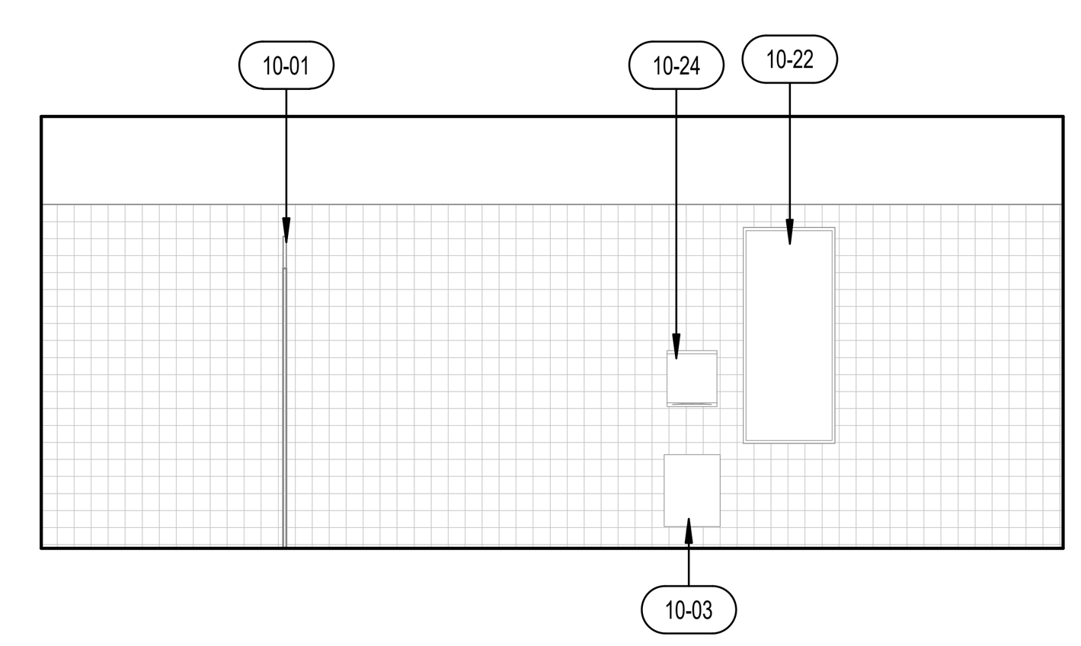
SCALE: 1/4" = 1'-0"



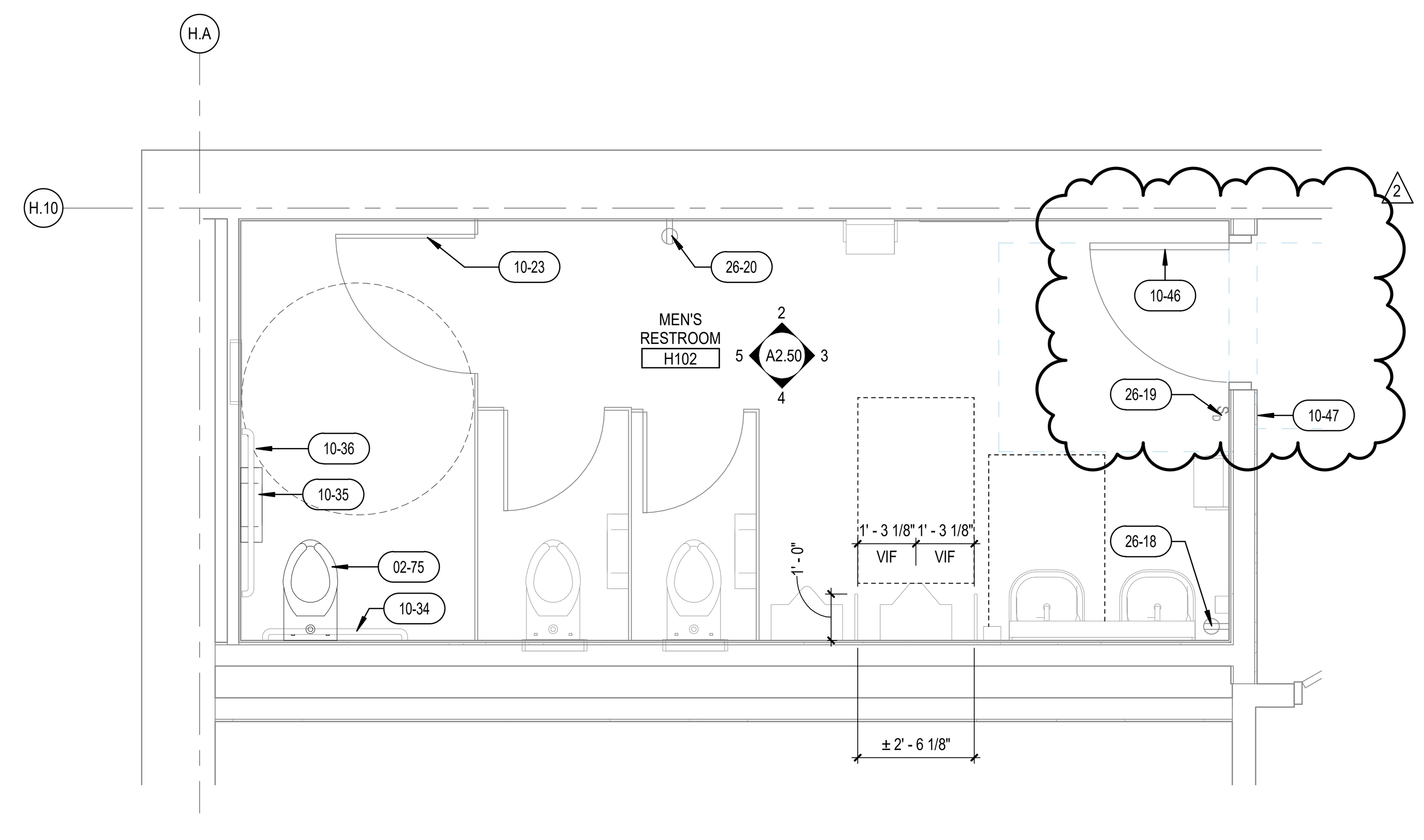
4 A2.50 INT ELEV - H102 MEN S RESTROOM 3
SCALE: 1/4" = 1'-0"



3 A2.50 INT ELEV - H102 MEN S RESTROOM 2
SCALE: 1/4" = 1'-0"



2 A2.50 INT ELEV - H102 MEN S RESTROOM 1
SCALE: 1/4" = 1'-0"



1 A2.50 PARTIAL PLAN - STUDENT UNION - MEN'S RESTROOM
SCALE: 3/8" = 1'-0"

LEGEND AND NOTES

GENERAL ARCHITECTURAL NOTES

1. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: ## XX # SEE SHEET A8.00 FOR WALL TYPES.
2. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES.
3. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00.
4. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS, DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS.
5. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01.
6. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
7. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND S6.2 TO S6.3.
8. WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO MATCH EXISTING, CONTRACTOR SHALL VERIFY PRODUCTS WITH OWNER AND ARCHITECT, INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS.
9. PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.
10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK.
11. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED OTHERWISE.
12. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

REFERENCE KEYNOTES

02-73	RELOCATE DRINKING FOUNTAIN RAIL AS INDICATED ON FLOOR PLAN
02-74	RELOCATE WALL-MOUNTED SINK SO THAT THE CENTERLINE OF THE FIXTURE IS 18" MIN FROM THE SIDE WALL
02-75	REPLACE WALL-MOUNTED TOILET WITH NEW TOILET AND INSTALL SO THAT THE CENTERLINE OF THE FIXTURE IS 17"-18" FROM THE SIDE WALL OPPOSITE THE SIDE THE DOOR IS ON
03-04	EXISTING CONCRETE COLUMN TO REMAIN
03-09	CONCRETE CURB AT FRAMED WALL (S.S.D.)
10-01	EXISTING RESTROOM PARTITION TO REMAIN, TYP
10-02	EXISTING URINAL SCREEN TO REMAIN, TYP
10-03	EXISTING TRASH RECEPTACLE TO REMAIN
10-04	EXISTING SHELF TO REMAIN
10-05	EXISTING TOILET PAPER/ SEAT COVER DISPENSER COMBO TO REMAIN
10-07	EXISTING SEAT COVER DISPENSER TO REMAIN
10-08	EXISTING WALL-MOUNTED SOAP DISPENSER TO REMAIN
10-13	NEW PAPER TOWEL DISPENSER/WASTE RECEPTACLE (SEMI-RECESSED) TO MATCH EXISTING IN RESTROOM B-205
10-18	EXISTING TOILET PAPER DISPENSER
10-19	EXISTING SANITARY NAPKIN DISPOSAL TO REMAIN
10-22	EXISTING MIRROR TO REMAIN
10-23	ADJUST DOOR TO AUTOMATICALLY SWING TO CLOSED POSITION (SELF-CLOSING)
10-24	EXISTING PAPER TOWEL DISPENSER TO REMAIN
10-30	EXISTING FEMININE PRODUCT DISPENSER TO REMAIN
10-34	RELOCATE EXISTING 36" REAR GRAB BAR TO BE 12" TOWARDS PARALLEL WALL FROM CENTERLINE OF WATER CLOSET AND 24" TOWARDS OPEN/TRANSFER SIDE FROM CENTERLINE OF WATER CLOSET, SEE DETAIL 5/CP3.01
10-35	RELOCATE TOILET PAPER DISPENSER 1 1/2" INCHES MIN BELOW GRAB BAR WITH CENTERLINE 8" FROM FRONT EDGE OF WATER CLOSET. LOCATE TOILET PAPER DISPENSER 19" AFF MIN., SEE DETAIL CP3.01
10-36	RELOCATE EXISTING 42" PARALLEL WALL GRAB BAR 12" ABSOLUTE FROM REAR WALL TO CENTERLINE OF ESCUTCHEON PLATE, SEE DETAIL 5/CP3.01
10-40	RELOCATE EXISTING TOILET SEAT COVER DISPENSER SO THAT THE TOP OF OPENING IS 40" AFF MAX
10-42	ADD BACKING FOR RE-INSTALLATION OF EXISTING SIDE GRAB BAR, SEE 23/S6.2 FOR WOOD BACKING AND 21/S6.3 FOR STEEL BACKING. PATCH AND REPAIR AREA AFTER INSTALLATION.
10-45	REPLACE EXISTING PAPER TOWEL DISPENSER WITH A DISPENSER THAT HAS A DEPTH OF 8" OR LESS. BOD: KIMBERLY CLARK
10-46	EXISTING RESTROOM DOOR SIGNAGE TO REMAIN
10-47	EXISTING ROOM IDENTIFICATION SIGNAGE WITH BRAILLE MOUNTED AT ACCESSIBLE HEIGHT TO REMAIN
22-01	EXISTING SINK AND FAUCET TO REMAIN
22-05	NEW LAVATORY (S.P.D.)
22-06	EXISTING WATER CLOSET TO REMAIN
22-08	EXISTING URINAL TO REMAIN
26-18	LOWER ELECTRICAL OUTLET SO THAT THE TOP OF THE OUTLET BOX IS 48" MAX AFF
26-19	LOWER LIGHT SWITCH SO THAT THE TOP OF THE SWITCH BOX IS 48" MAX AFF
26-20	RAISE ELECTRICAL OUTLET SO THAT THE BOTTOM OF THE OUTLET BOX IS 15" MIN AFF
28-04	RELOCATE FIRE ALARM STROBE TO BE 80" AFF MIN AND 96" AFF MAX

PLAN LEGEND

▭	EXISTING WALLS
■	NEW WALLS
▤	EXISTING 1-HR RATED WALLS
▨	NOT IN SCOPE
⬚	LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

1

TOILET ACCESSORIES SCHEDULE

ABBREV	DESCRIPTION	MANUFACTURER / MODEL
(E)	EXISTING	
GB-1	GRAB BAR (BACK WALL) - 42" LENGTH	BOBRICK B-6806
GB-2	GRAB BAR (SIDE WALL) - 48" LENGTH	BOBRICK B-6806
MF	MIRROR, FRAMELESS	BOBRICK B-1556
MR	MIRROR	BOBRICK B-290
MR/S	MIRROR WITH SHELF	BRADLEY B-3644
PTD1	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	KIMBERLY CLARK 09996
PTD2	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	GEORGIA PACIFIC 54338A
PTD3	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	BOBRICK B-72860
PTR	PAPER TOWEL DISPENSER, RECESSED	BOBRICK B-359
PWR	COMBINATION TOWEL DISPENSER/RECEPTACLE, RECESSED	BOBRICK B-39003
PWS	COMBINATION TOWEL DISPENSER/RECEPTACLE, SEMI-RECESSED	BOBRICK B-3944
RH	ROBE HOOK	BRADLEY 9114-US
SCD	SEAT COVER DISPENSER, SURFACE-MOUNTED	BOBRICK B-221
SCR	SEAT COVER DISPENSER, RECESSED	BOBRICK B-301
SD	SOAP DISPENSER, SURFACE-MOUNTED	GOJO ADX-12
SND1	SANITARY NAPKIN DISPOSAL	CONTINENTAL 250W
SND2	SANITARY NAPKIN DISPOSAL	BOBRICK B-270
SNV1	SANITARY NAPKIN VENDOR	GAMCO 352 25
SNV2	SANITARY NAPKIN VENDOR	ASI 204684
SSS	STAINLESS STEEL SHELF	BRADLEY SA49
TTD	TOILET TISSUE DISPENSER, SURFACE-MOUNTED	PALMER FIXTURE RD0027
WR1	WASTE RECEPTACLE, RECESSED	BOBRICK B-3644
WR2	WASTE RECEPTACLE, SURFACE-MOUNTED	BRADLEY 357

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05/02/2022
Revisions

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2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER:
75-21809-00

PARTIAL FLOOR PLANS - RESTROOMS

A2.50

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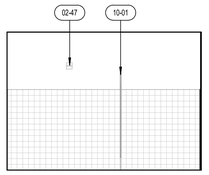
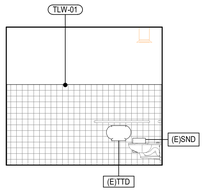
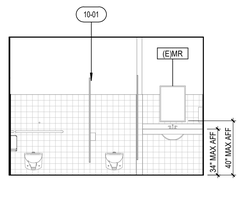


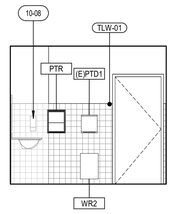
18 A2.51 INT ELEV - B-222 - WOMEN'S RESTROOM N
SCALE: 1/4" = 1'-0"



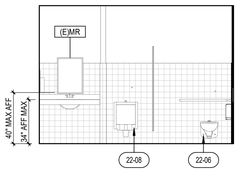
17 A2.51 INT ELEV - B-222 - WOMEN'S RESTROOM E
SCALE: 1/4" = 1'-0"



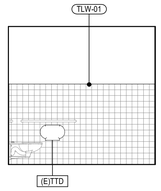
16 A2.51 INT ELEV - B-222 - WOMEN'S RESTROOM S
SCALE: 1/4" = 1'-0"



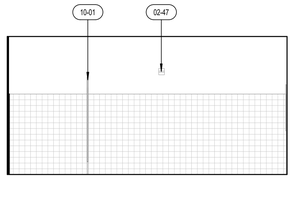
15 A2.51 INT ELEV - B-222 - WOMEN'S RESTROOM W
SCALE: 1/4" = 1'-0"



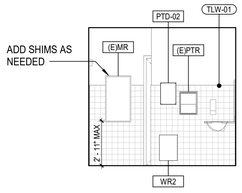
14 A2.51 INT ELEV - B-218 - MEN'S RESTROOM N
SCALE: 1/4" = 1'-0"



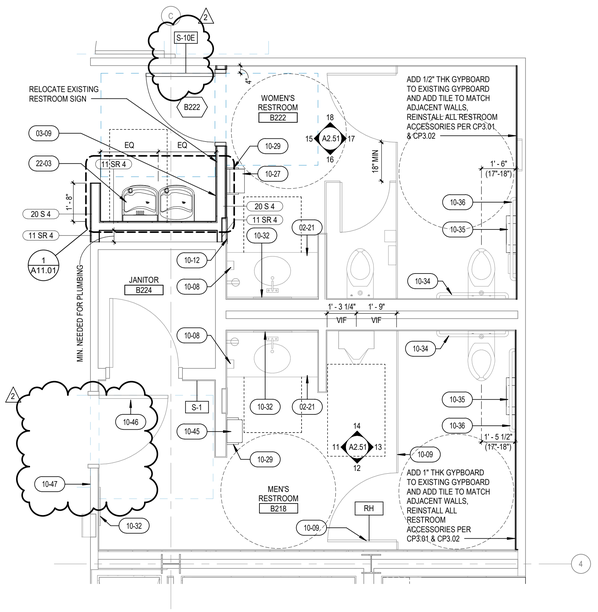
13 A2.51 INT ELEV - B-218 - MEN'S RESTROOM E
SCALE: 1/4" = 1'-0"



12 A2.51 INT ELEV - B-218 - MEN'S RESTROOM S
SCALE: 1/4" = 1'-0"



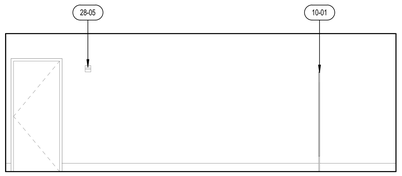
11 A2.51 INT ELEV - B-218 - MEN'S RESTROOM W
SCALE: 1/4" = 1'-0"



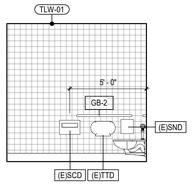
10 A2.51 PARTIAL PLAN - BOOKSTORE - LEVEL 2 RESTROOMS
SCALE: 3/8" = 1'-0"

NOTE:

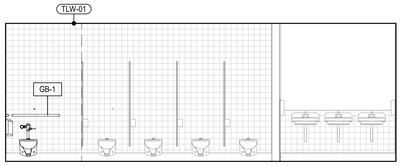
AT RESTROOMS, WHEN MODIFICATIONS OR DEMOLITION OF WALL FRAMING AND/OR WALL & FLOOR FINISHES ARE REQUIRED, THE PATCH AND REPAIR SHALL EXTEND TO A DATUM POINT ESTABLISHED BY THE ARCHITECT TO TERMINATE FINISHES. BOUNDARIES BETWEEN EXISTING AND NEW FINISHES SHALL BE ESTABLISHED IN RELATIONSHIP TO NEARBY ELEMENTS, INCLUDING BUT NOT LIMITED TO WALLS, RESTROOM PARTITIONS, RESTROOM ACCESSORIES AND EXISTING FINISH EXTENTS.



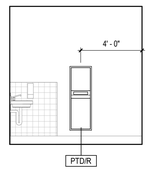
9 A2.51 INT ELEV - BFL101D - WOMEN'S RESTROOM N
SCALE: 1/4" = 1'-0"



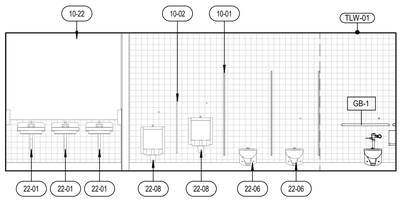
8 A2.51 INT ELEV - BFL101D - WOMEN'S RESTROOM E
SCALE: 1/4" = 1'-0"



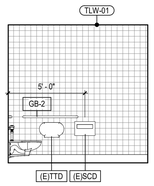
7 A2.51 INT ELEV - BFL101D - WOMEN'S RESTROOM S
SCALE: 1/4" = 1'-0"



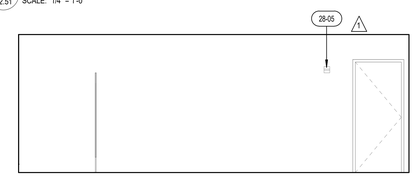
6 A2.51 INT ELEV - BFL101D - WOMEN'S RESTROOM W
SCALE: 1/4" = 1'-0"



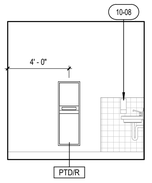
5 A2.51 INT ELEV - BFL101E - MEN'S RESTROOM N
SCALE: 1/4" = 1'-0"



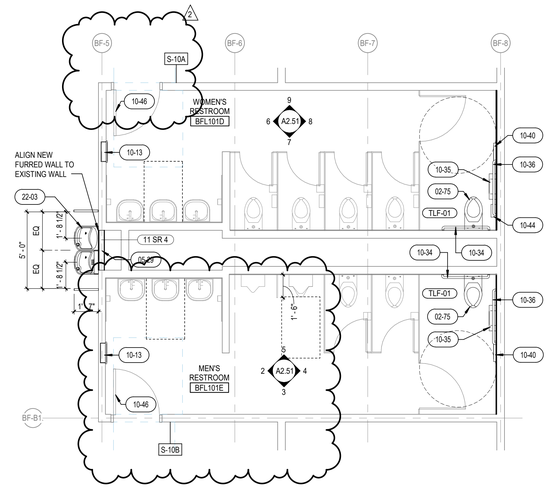
4 A2.51 INT ELEV - BFL101E - MEN'S RESTROOM E
SCALE: 1/4" = 1'-0"



3 A2.51 INT ELEV - BFL101E - MEN'S RESTROOM S
SCALE: 1/4" = 1'-0"



2 A2.51 INT ELEV - BFL101E - MEN'S RESTROOM W
SCALE: 1/4" = 1'-0"



1 A2.51 PARTIAL PLAN - BFL - RESTROOMS
SCALE: 1/4" = 1'-0"

LEGEND AND NOTES

GENERAL ARCHITECTURAL NOTES

1. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: (## XX #) SEE SHEET A8.00 FOR WALL TYPES.
2. ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES.
3. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A11.00.
4. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL OR WOOD STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, DOOR STOPS, AUDIO VISUAL BRACKETS, DRINKING FOUNTAINS AND OTHER WALL ATTACHED ITEMS. SEE STRUCTURAL DRAWINGS FOR BACKING PLATE REQUIREMENTS.
5. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DESCRIBED IN THE SPECIFICATIONS AND 1/A11.01.
6. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK OR FLOOR ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
7. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS. SEE SHEETS A11.30 TO A11.33. AND S6.2 TO S6.3.
8. WHERE FINISHES ARE NEEDED FOR PATCH AND REPAIR TO MATCH EXISTING, CONTRACTOR SHALL VERIFY PRODUCTS WITH OWNER AND ARCHITECT, INCLUDING BUT NOT LIMITED TO TILE, CARPET, PAINT AND WOOD TRIMS. CHECK WITH OWNER TO VERIFY IF NO EXISTING STOCK REMAINS.
9. PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.
10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK.
11. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED OTHERWISE.
12. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

REFERENCE KEYNOTES

02-21	REMOVE EXISTING WALL HUNG SOLID SURFACE COUNTER AND DROP IN BOWLS AND FAUCETS AND RAISE/LOWER TO HEIGHTS INDICATED ON RESTROOM INTERIOR ELEVATIONS
02-47	EXISTING FIRE ALARM DEVICE TO REMAIN, TYP
02-75	REPLACE WALL-MOUNTED TOILET WITH NEW TOILET AND INSTALL SO THAT THE CENTERLINE OF THE FIXTURE IS 17"-18" FROM THE SIDE WALL OPPOSITE THE SIDE THE DOOR IS ON
03-09	CONCRETE CURB AT FRAMED WALL (S.S.D.)
05-29	PROVIDE BACKING FOR DRINKING FOUNTAIN MOUNTING
10-01	EXISTING RESTROOM PARTITION TO REMAIN, TYP
10-02	EXISTING URINAL SCREEN TO REMAIN, TYP
10-08	EXISTING WALL-MOUNTED SOAP DISPENSER TO REMAIN
10-09	ROBE HOOK
10-12	NEW WALL MOUNTED PAPER TOWEL DISPENSER
10-13	NEW PAPER TOWEL DISPENSER/WASTE RECEPTACLE (SEMI-RECESSED) TO MATCH EXISTING IN RESTROOM B-205
10-22	EXISTING MIRROR TO REMAIN
10-27	RELOCATE PAPER TOWEL DISPENSER SO THAT THE TOP OF THE OPERABLE PART IS 40" AFF MAX
10-29	NEW SURFACE-MOUNTED WASTE RECEPTACLE
10-32	LOWER EXISTING MIRROR TO HAVE BOTTOM OF REFLECTIVE SURFACE TO BE 40" AFF MAX
10-34	RELOCATE EXISTING 36" REAR GRAB BAR TO BE 12" TOWARDS PARALLEL WALL FROM CENTERLINE OF WATER CLOSET AND 24" TOWARDS OPEN/TRANSFER SIDE FROM CENTERLINE OF WATER CLOSET, SEE DETAIL 5/CP3.01
10-35	RELOCATE TOILET PAPER DISPENSER 1 1/2" INCHES MIN BELOW GRAB BAR WITH CENTERLINE 8" FROM FRONT EDGE OF WATER CLOSET. LOCATE TOILET PAPER DISPENSER 19" AFF MIN., SEE DETAIL CP3.01
10-36	RELOCATE EXISTING 42" PARALLEL WALL GRAB BAR 12" ABSOLUTE FROM REAR WALL TO CENTERLINE OF ESCUTCHEON PLATE. SEE DETAL 5/CP3.01
10-40	RELOCATE EXISTING TOILET SEAT COVER DISPENSER SO THAT THE TOP OF OPENING IS 40" AFF MAX
10-44	RELOCATE EXISTING SANITARY NAPKIN DISPOSAL TO BE BETWEEN THE TOILET PAPER DISPENSER AND THE REAR WALL OF THE TOILET. TOP OF OPENING SHOULD BE 19" AFF MIN
10-45	REPLACE EXISTING PAPER TOWEL DISPENSER WITH A DISPENSER THAT HAS A DEPTH OF 8" OR LESS
10-46	EXISTING RESTROOM DOOR SIGNAGE TO REMAIN
10-47	EXISTING ROOM IDENTIFICATION SIGNAGE WITH BRAILLE MOUNTED AT ACCESSIBLE HEIGHT TO REMAIN
22-01	EXISTING SINK AND FAUCET TO REMAIN
22-03	NEW DRINKING FOUNTAIN/BOTTLE FILLER (S.P.D.)
22-06	EXISTING WATER CLOSET TO REMAIN
22-08	EXISTING URINAL TO REMAIN
28-05	EXISTING FIRE ALARM STROBE TO REMAIN

PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- EXISTING 1-HR RATED WALLS
- NOT IN SCOPE
- LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

TOILET ACCESSORIES SCHEDULE

ABBREV	DESCRIPTION	MANUFACTURER / MODEL
(E)	EXISTING	
GB-1	GRAB BAR (BACK WALL) - 42" LENGTH	BOBRICK B-6806
GB-2	GRAB BAR (SIDE WALL) - 48" LENGTH	BOBRICK B-6806
MF	MIRROR, FRAMELESS	BOBRICK B-1556
MR	MIRROR	BOBRICK B-290
MRS	MIRROR WITH SHELF	BRADLEY B-3644
PTD1	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	KIMBERLY CLARK 09996
PTD2	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	GEORGIA PACIFIC 54338A
PTD3	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	BOBRICK B-72860
PTR	PAPER TOWEL DISPENSER, RECESSED	BOBRICK B-359
PWR	COMBINATION TOWEL DISPENSER/RECEPTACLE, RECESSED	BOBRICK B-39003
PWS	COMBINATION TOWEL DISPENSER/RECEPTACLE, SEMI-RECESSED	BOBRICK B-3944
RH	ROBE HOOK	BRADLEY 9114-US
SCD	SEAT COVER DISPENSER, SURFACE-MOUNTED	BOBRICK B-221
SCR	SEAT COVER DISPENSER, RECESSED	BOBRICK B-301
SD	SOAP DISPENSER, SURFACE-MOUNTED	GOJO ADX-12
SND1	SANITARY NAPKIN DISPOSAL	CONTINENTAL 250W
SND2	SANITARY NAPKIN DISPOSAL	BOBRICK B-270
SNV1	SANITARY NAPKIN VENDOR	GAMCO 352 25
SNV2	SANITARY NAPKIN VENDOR	ASI 204684
SSS	STAINLESS STEEL SHELF	BRADLEY SA49
TTD	TOILET TISSUE DISPENSER, SURFACE-MOUNTED	PALMER FIXTURE RD0027
WR1	WASTE RECEPTACLE, RECESSED	BOBRICK B-3644
WR2	WASTE RECEPTACLE, SURFACE-MOUNTED	BRADLEY 357

DSA APPROVAL STAMP

LICENSED ARCHITECT
IRENE MONIS
C 27579
REN. 11-30-23
STATE OF CALIFORNIA

DLR Group
235 Montgomery Street, Suite 350 San Francisco, CA 94104

DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022

Revisions

1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER:
75-21809-00

PARTIAL FLOOR PLANS - RESTROOMS

A2.51

NOTE:

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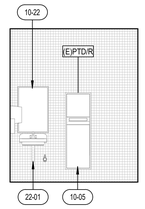
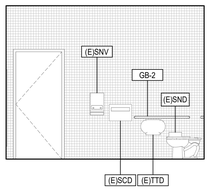
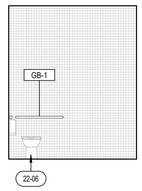


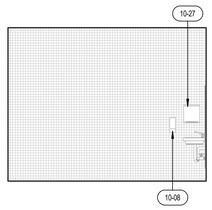
9 A2.52 INT ELEV - LC120 RESTROOM N
SCALE: 1/4" = 1'-0"



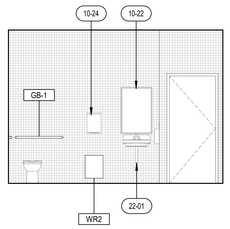
8 A2.52 INT ELEV - LC120 RESTROOM E
SCALE: 1/4" = 1'-0"



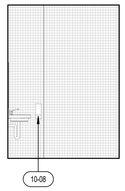
7 A2.52 INT ELEV - LC120 RESTROOM S
SCALE: 1/4" = 1'-0"



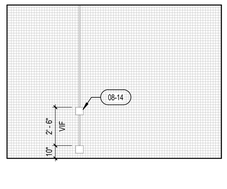
6 A2.52 INT ELEV - LC120 RESTROOM W
SCALE: 1/4" = 1'-0"



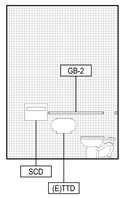
5 A2.52 INT ELEV - LC119 RESTROOM N
SCALE: 1/4" = 1'-0"



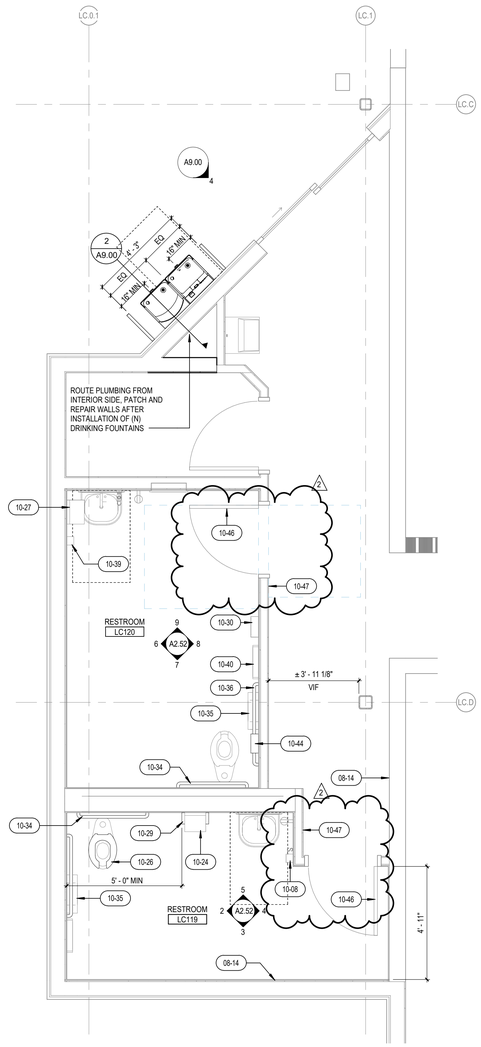
4 A2.52 INT ELEV - LC119 RESTROOM E
SCALE: 1/4" = 1'-0"



3 A2.52 INT ELEV - LC119 RESTROOM S
SCALE: 1/4" = 1'-0"



2 A2.52 INT ELEV - LC119 RESTROOM W
SCALE: 1/4" = 1'-0"



1 A2.52 LEARNING CENTER - RESTROOMS - ENLARGED PLAN
SCALE: 3/8" = 1'-0"

LEGEND AND NOTES

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9. PATCH AND REPAIR ALL AREAS THAT REQUIRE PARTIAL TO COMPLETE WORK. PATCH AND REPAIR ALL AREAS THAT GET DAMAGED DURING CONSTRUCTION TO MATCH EXISTING OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, FINISHES, FLOORING AND PAINT, UNLESS OTHERWISE NOTED.
10. VERIFY DOOR CLOSING SPEED IS 5 SECONDS MINIMUM FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH AND OPERATING FORCE IS LESS THAN 5PSF AT ALL DOORS WITHIN THE LIMIT OF WORK.
11. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF FINISH (NEW AND EXISTING), GRIDLINES WHERE APPLICABLE, EDGES OF ELEMENTS AND CENTERLINES OF ELEMENTS. DIMENSIONS NOT FOLLOWING TYPICAL CONVENTIONS WILL BE NOTED OTHERWISE.
12. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

REFERENCE KEYNOTES

08-14	VERIFY AND ENSURE EXISTING AUTOMATIC DOOR OPERATOR IS CONNECTED TO POWER AND FUNCTIONS PROPERLY
10-05	EXISTING TOILET PAPER/ SEAT COVER DISPENSER COMBO TO REMAIN
10-08	EXISTING WALL-MOUNTED SOAP DISPENSER TO REMAIN
10-22	EXISTING MIRROR TO REMAIN
10-24	EXISTING PAPER TOWEL DISPENSER TO REMAIN
10-26	REPLACE EXISTING TOILET SEAT WITH THINNER TOILET SEAT SO THAT THE TOP OF THE TOILET SEAT IS 15" AFF MAX
10-27	RELOCATE PAPER TOWEL DISPENSER SO THAT THE TOP OF THE OPERABLE PART IS 40" AFF MAX
10-29	NEW SURFACE-MOUNTED WASTE RECEPTACLE
10-30	EXISTING FEMININE PRODUCT DISPENSER TO REMAIN
10-34	RELOCATE EXISTING 36" REAR GRAB BAR TO BE 12" TOWARDS PARALLEL WALL FROM CENTERLINE OF WATER CLOSET AND 24" TOWARDS OPEN/TRANSFER SIDE FROM CENTERLINE OF WATER CLOSET, SEE DETAIL 5/CP3.01
10-35	RELOCATE TOILET PAPER DISPENSER 1 1/2" INCHES MIN BELOW GRAB BAR WITH CENTERLINE 8" FROM FRONT EDGE OF WATER CLOSET. LOCATE TOILET PAPER DISPENSER 19" AFF MIN., SEE DETAIL CP3.01
10-36	RELOCATE EXISTING 42" PARALLEL WALL GRAB BAR 12" ABSOLUTE FROM REAR WALL TO CENTERLINE OF ESCUTCHEON PLATE, SEE DETAIL 5/CP3.01
10-39	LOWER SOAP DISPENSER TO HAVE HIGHEST OPERABLE PART 40" AFF MAX
10-40	RELOCATE EXISTING TOILET SEAT COVER DISPENSER SO THAT THE TOP OF OPENING IS 40" AFF MAX
10-44	RELOCATE EXISTING SANITARY NAPKIN DISPOSAL TO BE BETWEEN THE TOILET PAPER DISPENSER AND THE REAR WALL OF THE TOILET. TOP OF OPENING SHOULD BE 36" AFF MIN.
10-46	EXISTING RESTROOM DOOR SIGNAGE TO REMAIN
10-47	EXISTING ROOM IDENTIFICATION SIGNAGE WITH BRAILLE MOUNTED AT ACCESSIBLE HEIGHT TO REMAIN
22-01	EXISTING SINK AND FAUCET TO REMAIN
22-06	EXISTING WATER CLOSET TO REMAIN

PLAN LEGEND

- EXISTING WALLS
- NEW WALLS
- EXISTING 1-HR RATED WALLS
- NOT IN SCOPE
- LIMIT OF WORK (AREA OF ALTERATION OF EACH ROOM AS IT PERTAINS TO EACH DRAWING)

TOILET ACCESSORIES SCHEDULE

ABBREV	DESCRIPTION	MANUFACTURER / MODEL
(E)	EXISTING	
GB-1	GRAB BAR (BACK WALL) - 42" LENGTH	BOBRICK B-6806
GB-2	GRAB BAR (SIDE WALL) - 48" LENGTH	BOBRICK B-6806
MF	MIRROR, FRAMELESS	BOBRICK B-1556
MR	MIRROR	BOBRICK B-290
MR/S	MIRROR WITH SHELF	BRADLEY B-3644
PTD1	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	KIMBERLY CLARK 09996
PTD2	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	GEORGIA PACIFIC 54338A
PTD3	PAPER TOWEL DISPENSER, SURFACE-MOUNTED	BOBRICK B-72860
PTR	PAPER TOWEL DISPENSER, RECESSED	BOBRICK B-359
PWR	COMBINATION TOWEL DISPENSER/RECEPTACLE, RECESSED	BOBRICK B-39003
PWS	COMBINATION TOWEL DISPENSER/RECEPTACLE, SEMI-RECESSED	BOBRICK B-3944
RH	ROBE HOOK	BRADLEY 9114-US
SCD	SEAT COVER DISPENSER, SURFACE-MOUNTED	BOBRICK B-221
SCR	SEAT COVER DISPENSER, RECESSED	BOBRICK B-301
SD	SOAP DISPENSER, SURFACE-MOUNTED	GOJO ADX-12
SND1	SANITARY NAPKIN DISPOSAL	CONTINENTAL 250W
SND2	SANITARY NAPKIN DISPOSAL	BOBRICK B-270
SNV1	SANITARY NAPKIN VENDOR	GAMCO 352 25
SNV2	SANITARY NAPKIN VENDOR	ASI 204684
SSS	STAINLESS STEEL SHELF	BRADLEY SA49
TTD	TOILET TISSUE DISPENSER, SURFACE-MOUNTED	PALMER FIXTURE RD0027
WR1	WASTE RECEPTACLE, RECESSED	BOBRICK B-3644
WR2	WASTE RECEPTACLE, SURFACE-MOUNTED	BRADLEY 357

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ADDENDUM 2

05/02/2022

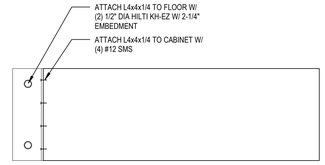
Revisions

1	04/22/2022	ADDENDUM 1
2	05/02/2022	ADDENDUM 2

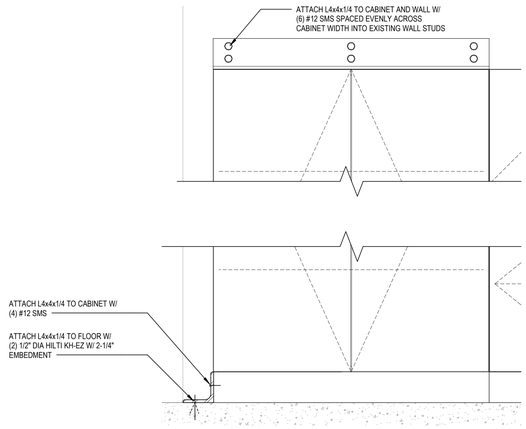
DLR GROUP PROJECT NUMBER:
75-21809-00

PARTIAL FLOOR PLANS - RESTROOMS

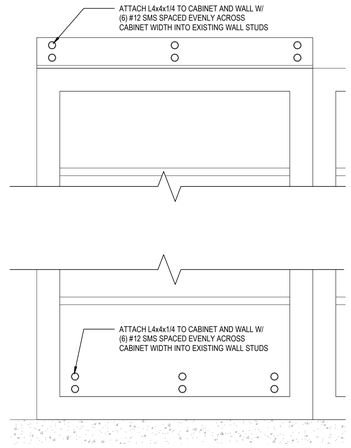
A2.52



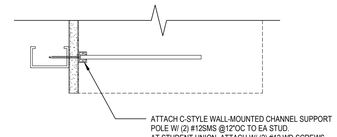
9 A10.50 DETAIL - PLAN - INT - METAL FILING BOOKCASE ANCHORAGE - TYPE 2
SCALE: 1 1/2" = 1'-0"



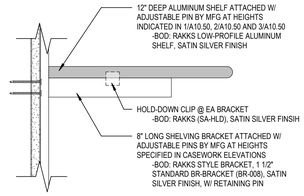
8 A10.50 DETAIL - ELEVATION - INT - METAL FILE CABINET ANCHORAGE
SCALE: 1 1/2" = 1'-0"



7 A10.50 DETAIL - ELEVATION - INT - METAL FILING BOOKCASE ANCHORAGE - TYPE 1
SCALE: 1 1/2" = 1'-0"

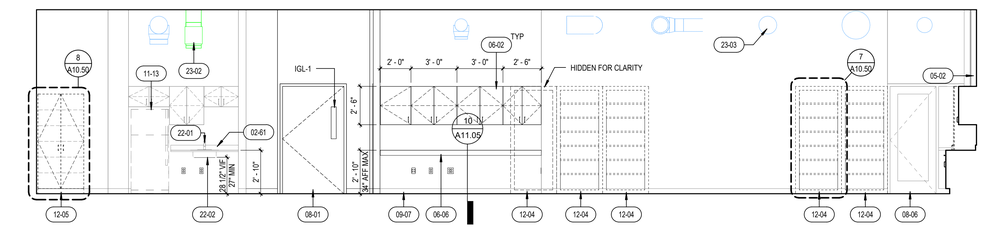


PLAN

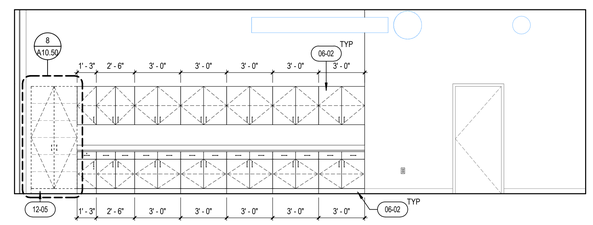


SECTION

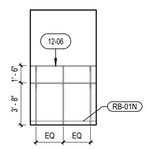
6 A10.50 DETAIL - SHELVING
SCALE: 3" = 1'-0"



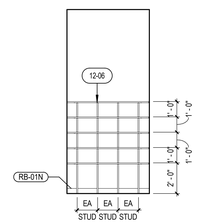
5 A10.50 INT ELEV - BOOKSTORE - B204 PRINT ROOM W
SCALE: 1/4" = 1'-0"



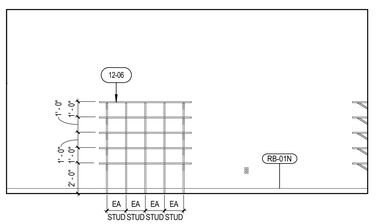
4 A10.50 INT ELEV - BOOKSTORE - B204 PRINT ROOM N
SCALE: 1/4" = 1'-0"



3 A10.50 INT ELEV - STUDENT UNION - H116 STORAGE N
SCALE: 3/16" = 1'-0"



2 A10.50 INT ELEV - BOOKSTORE - B202 TEACHER PICKUP W
SCALE: 1/4" = 1'-0"



1 A10.50 INT ELEV - BOOKSTORE - B202 TEACHER PICKUP S
SCALE: 1/4" = 1'-0"

LEGEND AND NOTES

CASEWORK AND MILLWORK GENERAL NOTES

A. CASEWORK AND MILLWORK GENERAL NOTES APPLY TO ALL CASEWORK/MILLWORK SHEETS.
B. ALL BASE CABINETS TO BE 2'-0" DEEP UNITS, UNLESS NOTED OTHERWISE.
C. ALL UPPER WALL CABINETS TO BE 1'-2" DEEP UNITS, UNLESS NOTED OTHERWISE.
D. ALL TALL STORAGE CABINETS TO BE 2'-0" DEEP UNITS, UNLESS NOTED OTHERWISE.
E. ALL SHELVING IN CASEWORK TO BE ADJUSTABLE SHELVING, UNLESS NOTED OTHERWISE.
F. WHERE PLUMBING OR ELECTRICAL DEVICES ARE LOCATED IN CASEWORK, CASEWORK CONTRACTOR SHALL PROVIDE OPENINGS. COORDINATE LOCATION AND QUANTITY WITH THE PLUMBING OR ELECTRICAL CONTRACTOR.
G. PROVIDE SEALANT AT ALL PERIMETER JOINTS WHERE COUNTERTOPS, BACK AND SIDE SPLASHES, CASEWORK AND MILLWORK ABUT WALLS.
H. FIELD VERIFY ALL DIMENSIONS OF CABINET LOCATIONS IN THE BUILDING PRIOR TO FABRICATION.
I. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK AND MILLWORK.
J. ALL EXPOSED SURFACES IN OPEN SHELVING SHALL BE PLASTIC LAMINATE COVERED.
K. SEE DETAIL 10/A11.05 FOR TYPICAL COUNTER WORKSURFACE DETAIL.
L. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

REFERENCE KEYNOTES

02-61	EXISTING COUNTERS TO REMAIN. PROTECT BELOW COUNTER CASEWORK AND SUPPORTING WALLS
05-02	EXISTING STEEL COLUMN TO REMAIN
06-02	CASEWORK - PLASTIC LAMINATE OVER MDF CABINETS WITH SOLID SURFACE COUNTERTOP. SEE 9/A11.05 AND 1/A11.05
06-06	NEW COUNTERTOP WITH NO BACKSPLASH
08-01	NEW DOOR. SEE INTERIOR ELEVATIONS OR DOOR SCHEDULE FOR GLASS TYPE (EGL/IGL FOUND IN FINISH SCHEDULE)
08-06	EXISTING DOOR TO REMAIN
09-07	PATCH AND REPAIR WALL COVE BASE TO MATCH EXISTING
11-13	WASHER
12-04	36"x12"x66"H OPEN METAL FILING BOOKCASE (OFCI), SEE 7/A10.50 FOR ANCHORAGE
12-05	36"x17"x66"H METAL FILE CABINETS WITH DOUBLE DOORS (OFCI), SEE 8/A10.50 FOR ANCHORAGE
12-06	WALL-MOUNTED SHELVING, SEE DETAIL 5/A10.50
22-01	EXISTING SINK AND FAUCET TO REMAIN
22-02	PROVIDE P-TRAP COVER, AND SUPPLY COVERS. INSTALL IN ACCORDANCE WITH CBC/ADA REQUIREMENTS AND MANUFACTURER'S RECOMMENDATION. (TZ)
23-02	NEW ROOF PENETRATION AND ROOFTOP MECHANICAL EQUIPMENT (S.S.D. AND S.M.D.)
23-03	EXISTING MECHANICAL DUCTS TO REMAIN, TYP.

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ADDENDUM 2

05/02/2022

Revisions

2	05/02/2022	ADDENDUM 2

DLR GROUP PROJECT NUMBER:
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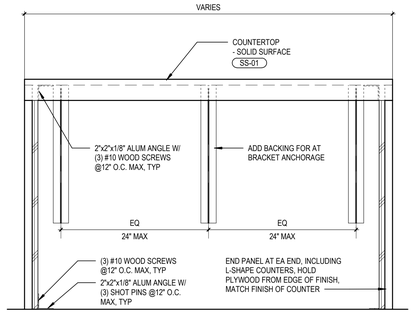
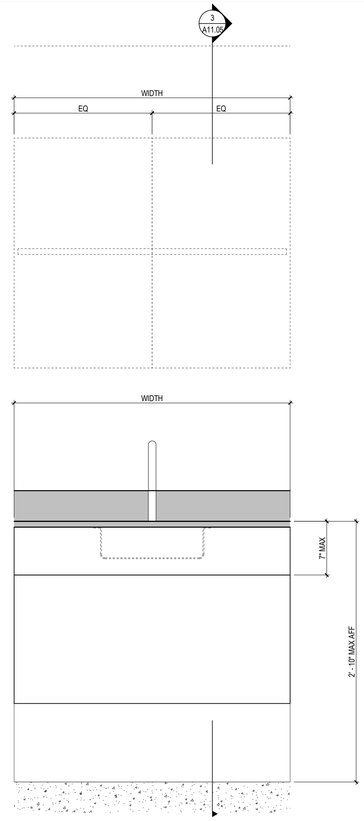
CASEWORK ELEVATIONS

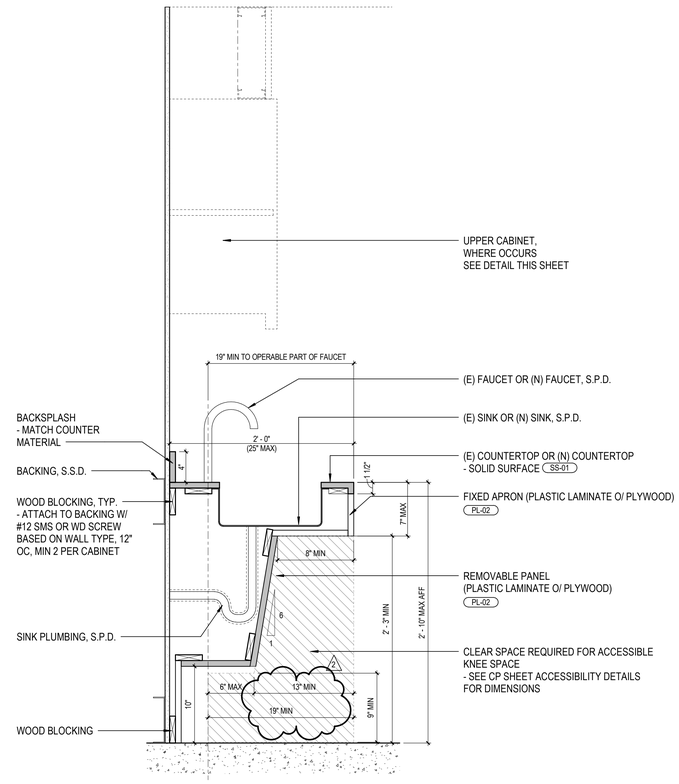
A10.50



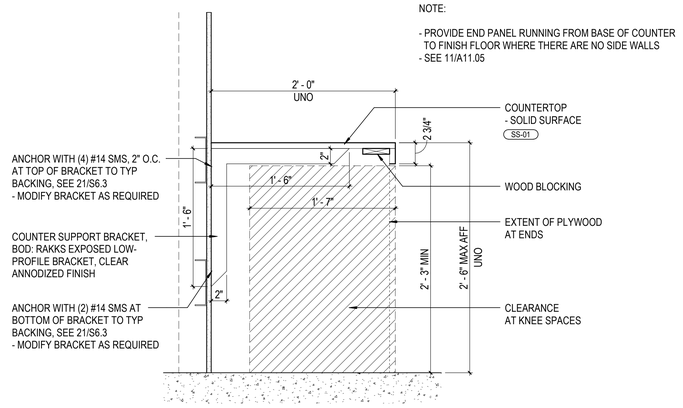
11 A11.05 DETAIL - ELEVATION - INT - CASEWORK - COUNTER WORKSURFACE
SCALE: 1 1/2" = 1'-0"



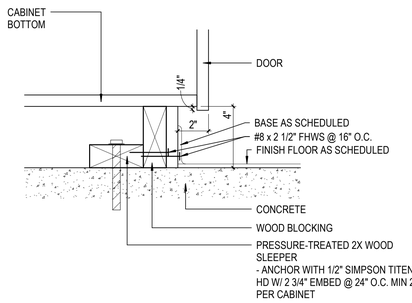
7 A11.05 DETAIL - INT - CASEWORK - SINK CABINET - ELEV
SCALE: 1 1/2" = 1'-0"



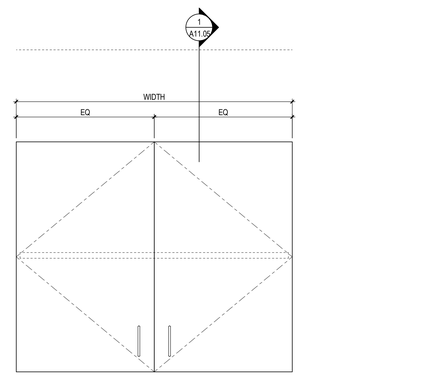
3 A11.05 DETAIL - INT - CASEWORK - SINK CABINET - SECTION
SCALE: 1 1/2" = 1'-0"



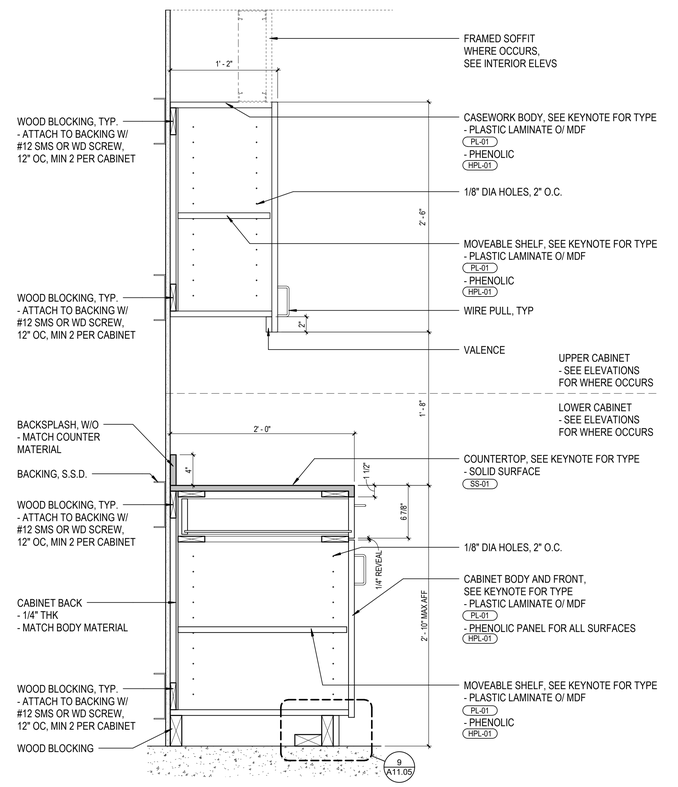
10 A11.05 DETAIL SECTION - INT - CASEWORK - COUNTER WORKSURFACE
SCALE: 1 1/2" = 1'-0"



9 A11.05 DETAIL - INT - CASEWORK - BASE ATTACHMENT
SCALE: 3" = 1'-0"



5 A11.05 DETAIL - INT - CASEWORK - BASE AND UPPER CABINET - ELEV
SCALE: 1 1/2" = 1'-0"



1 A11.05 DETAIL - INT - CASEWORK - BASE AND UPPER CABINET - SECTION
SCALE: 1 1/2" = 1'-0"

LEGEND AND NOTES

CASEWORK AND MILLWORK GENERAL NOTES

A. CASEWORK AND MILLWORK GENERAL NOTES APPLY TO ALL CASEWORK/MILLWORK SHEETS.
B. ALL BASE CABINETS TO BE 2'-0" DEEP UNITS, UNLESS NOTED OTHERWISE.
C. ALL UPPER WALL CABINETS TO BE 1'-2" DEEP UNITS, UNLESS NOTED OTHERWISE.
D. ALL TALL STORAGE CABINETS TO BE 2'-0" DEEP UNITS, UNLESS NOTED OTHERWISE.
E. ALL SHELVING IN CASEWORK TO BE ADJUSTABLE SHELVING, UNLESS NOTED OTHERWISE.
F. WHERE PLUMBING OR ELECTRICAL DEVICES ARE LOCATED IN CASEWORK, CASEWORK CONTRACTOR SHALL PROVIDE OPENINGS. COORDINATE LOCATION AND QUANTITY WITH THE PLUMBING OR ELECTRICAL CONTRACTOR.
G. PROVIDE SEALANT AT ALL PERIMETER JOINTS WHERE COUNTERTOPS, BACK AND SIDE SPLASHES, CASEWORK AND MILLWORK ABUT WALLS.
H. FIELD VERIFY ALL DIMENSIONS OF CABINET LOCATIONS IN THE BUILDING PRIOR TO FABRICATION.
I. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK AND MILLWORK.
J. ALL EXPOSED SURFACES IN OPEN SHELVING SHALL BE PLASTIC LAMINATE COVERED.
K. SEE DETAIL 10/A11.05 FOR TYPICAL COUNTER WORKSURFACE DETAIL.
L. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

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ADDENDUM 2

05/02/2022
Revisions
2 05/02/2022 ADDENDUM 2

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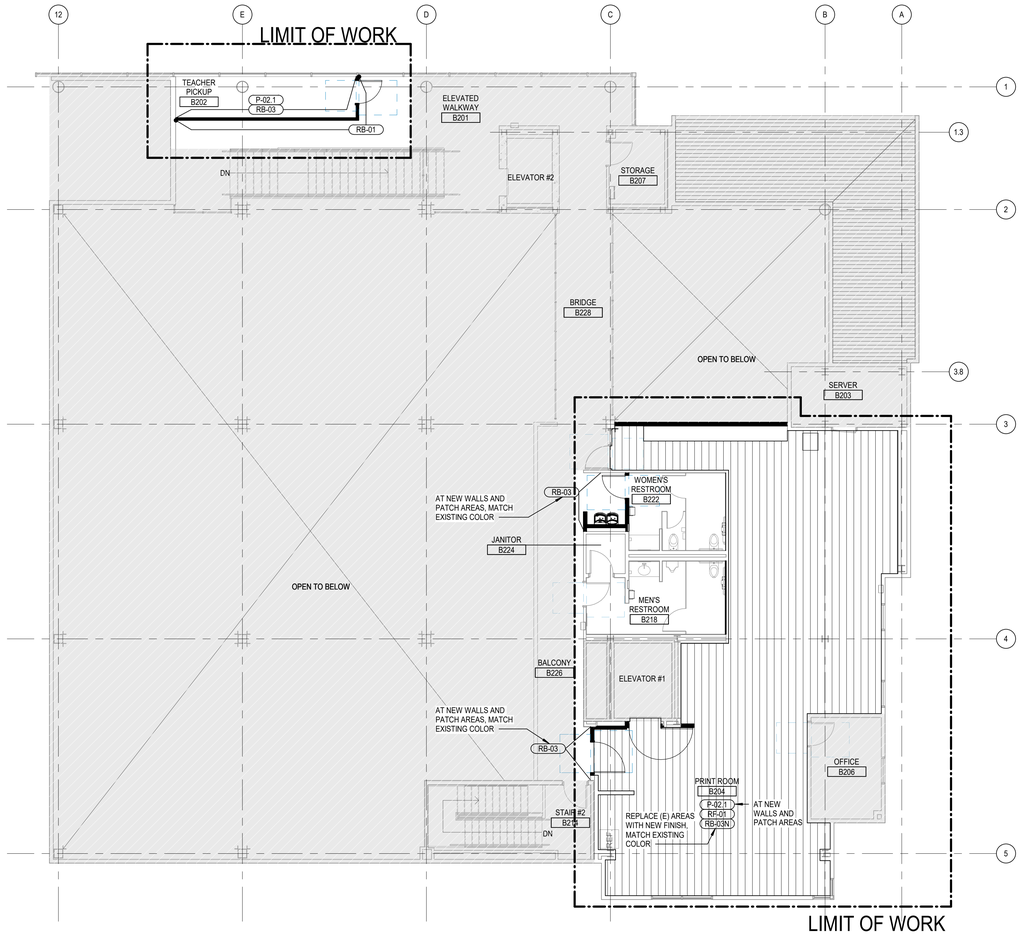
INTERIOR DETAILS - CASEWORK

A11.05



1 A12.31 BOOKSTORE - FINISH PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

LEGEND AND NOTES

INTERIOR FINISH PLAN GENERAL NOTES

A. ROOM FINISH SCHEDULE GENERAL NOTES APPLY TO ALL ROOM FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ROOM FINISH SCHEDULE FOR FLOOR AND WALL FINISHES NOT NOTED.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. FINISHES INDICATED WITH (XX - ##) SYMBOL ARE SCHEDULED ON SHEET A12.00.

FINISH LEGEND

- CARPET
- CARPET 2 - WALKOFF MATS
- LINOLEUM

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Revisions
2 05/02/2022 ADDENDUM 2

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PRINT SHOP - BOOKSTORE - LEVEL 2 FINISH PLAN

A12.31 2

SIGNAGE - GENERAL NOTES

1. SEE PLANS FOR LOCATIONS OF SIGNAGE, INDICATED BY SIGN TYPE NUMBER. SEE CP SHEETS FOR TYPICAL MOUNTING HEIGHTS AND PROXIMITY TO DOORS AND OTHER ELEMENTS.

2. EACH SIGN SHALL BE FABRICATED FROM A PLATE OF 1/8" THICK PHOTO SENSITIZED ACRYLIC ETCHED TO FORM A SINGLE PLAQUE. SIGNS WILL BE TWO-COLOR DESIGN WITH LIGHT BACKGROUND & DARK CHARACTERS TO MATCH CAMPUS SIGNAGE COLORS. (SUBMIT COLORS WITH LRV DATA TO ARCHITECT FOR APPROVAL; ASSUME GRAY COLOR BACKGROUND ≥90% LRV WITH BLUE COLOR CHARACTERS ≤20% LRV FOR BIDDING PURPOSES.) SIGN CHARACTERS AND BACKGROUNDS TO BE NON-GLARE FINISH.

3. EACH TYPICAL SIGN SHALL BE SUPPLIED WITH A BACKING PLATE WHICH MATCHES THE SIGN SHAPE. ATTACH TYPICAL SIGN BACKING PLATE USING AT LEAST (2) TWO FLATHEAD COUNTERSUNK SCREWS TO SOLID BACKING. ADHERE SIGN TO BACKING PLATE. SEE DETAIL 12/A14.00.

4. FOR TYPICAL MOUNTING HEIGHTS SEE DETAIL 11/A14.00.

5. BRAILLE: CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED.

6. CHARACTER TYPE: TACTILE CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.8 mm) MINIMUM. ALL CHARACTERS SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE.

7. CHARACTER SIZE: RAISED CHARACTERS SHALL BE MINIMUM OF 5/8" INCH (15.9 mm) AND MAXIMUM OF 2" (51mm) IN HEIGHT.

8. PICTOGRAMS
   A. PICTOGRAM FIELDS SHALL BE 6" MIN IN HEIGHT
   B. BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD
   C. PICTOGRAMS AND BACKGROUND SHALL HAVE NON-GLARE FINISH PER CBC 11B-703.6.2
   D. PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND PER CBC 11B-703.6.2
   E. TEXT DESCRIPTORS SHALL BE PROVIDED DIRECTLY BELOW THE PICTOGRAM PER CBC 11B-703.6.3

9. RESTROOM DOOR SIGNS:
   A. SHALL BE 1/4" THICK, TYP. PER 11B-703.7.2.6
   B. SHALL BE MOUNTED WITH THEIR HORIZONTAL CENTERLINE BTW 58" AND 60" AFF PER CBC 11B-703.7.2.6
   C. SHALL BE MOUNTED WITH THEIR VERTICAL CENTERLINE WITHIN 1" OF THE CENTER OF THE DOOR PER CBC 11B-703.7.2.6
   D. SYMBOL EDGES SHALL BE EASED OR ROUNDED 1/16" MINIMUM OR CHAMFERED 1/8" MAX, VERTICES SHALL BE RADIUSED BTW 1/8" AND 1/4"

9. VISUAL CHARACTERS:
   A. CHARACTERS AND BACKGROUND SHALL HAVE NON-GLARE FINISH PER CBC 11B-703.5.1
   B. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND PER CBC 11B-703.5.1
   C. CHARACTERS SHALL BE 40" MIN AFF.
10. VISUAL CHARACTERS SHALL COMPLY WITH CBC TABLE 11B-703.5.5.

11. FINISH AND CONTRAST (VISUAL CHARACTERS): CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND (LIGHT-ON-DARK OR DARK-ON-LIGHT).

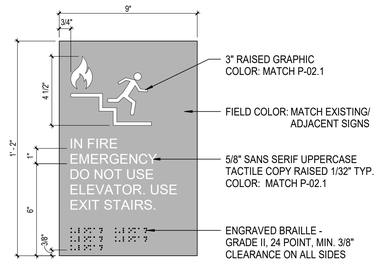
12. TYPE STYLE
   A. PROPORTIONS: THE WIDTH OF THE UPPERCASE LETTER "O" FOR VISUAL AND TACTILE CHARACTERS ON SIGN SHALL BE 60% MINIMUM TO 110% MAXIMUM THE HEIGHT OF THE UPPERCASE LETTER "I".
   B. STROKE THICKNESS: THE STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM THE HEIGHT OF THE CHARACTER.
   C. CHARACTER SPACING (EXCLUDING WORD SPACES): RAISED CHARACTERS SHALL BE SPACED 1/8" MINIMUM TO 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. VISUAL CHARACTERS SHALL BE SPACED 10% MINIMUM TO 35% MAXIMUM OF CHARACTER HEIGHT.

13. NOTE: ALL LOCATIONS OF SIGNAGE WITHIN ROOM AND/OR ON WALL SHALL BE REVIEWED BY OWNER BEFORE INSTALLATION.

14. WHERE SIGNS ATTACH TO GLASS, PROVIDE AND ADHERE OPAQUE ACRYLIC SHEET MATCHING THE SIGN COLOR TO OPPOSITE SIDE OF WINDOW. SIZE TO MATCH THE SIGN TO CONCEAL ANY ADHESIVE.

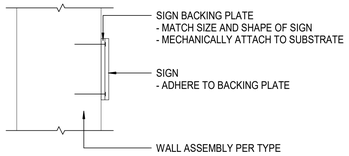
15. TYPOGRAPHY SHALL BE:
   A. AVENIR MEDIUM

16. SIGNAGE SHOP DRAWINGS SHALL BE PROVIDED AND APPROVED PRIOR TO INSTALLATION.

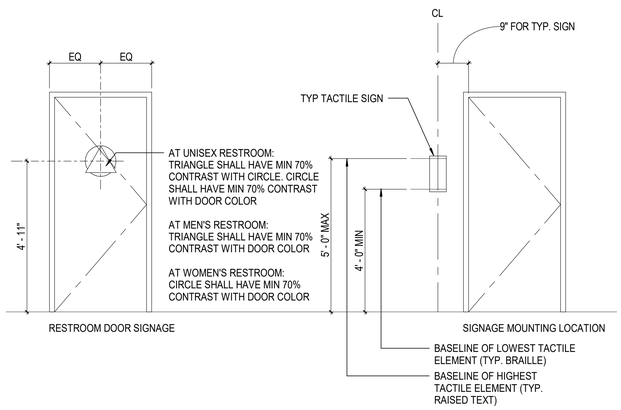


SIGN NAME: USE STAIRS

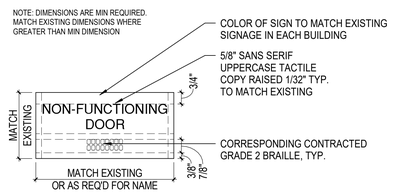
13 A14.00 DETAIL - INT - SIGNAGE - TYPE 7
SCALE: 3" = 1'-0"



12 A14.00 DETAIL - SIGNAGE - TYPICAL BACKING PLATES
SCALE: 3" = 1'-0"

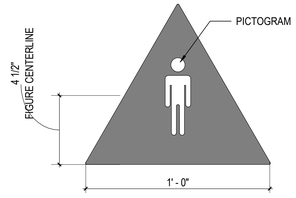


11 A14.00 DETAIL - SIGNAGE - MOUNTING LOCATIONS
SCALE: 1/2" = 1'-0"



SIGN NAME: NON-FUNCTIONING DOOR - DOOR

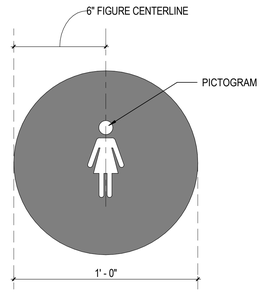
14 A14.00 DETAIL - INT - SIGNAGE - TYPE 8
SCALE: 3" = 1'-0"



NOTE: EXISTING SIGNS MATCHING THESE REQUIREMENTS ARE TO REMAIN

SIGN NAME: MEN'S RESTROOM - DOOR

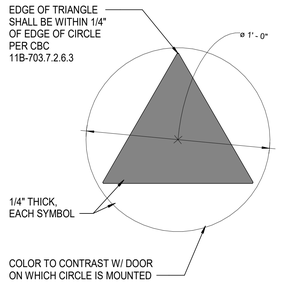
10 A14.00 DETAIL - INT - SIGNAGE - TYPE 10F
SCALE: 3" = 1'-0"



NOTE: EXISTING SIGNS MATCHING THESE REQUIREMENTS ARE TO REMAIN

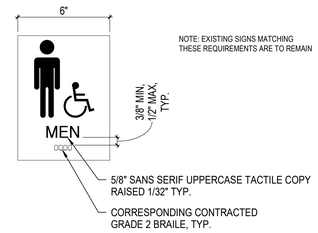
SIGN NAME: WOMEN'S RESTROOM - DOOR

9 A14.00 DETAIL - INT - SIGNAGE - TYPE 10E
SCALE: 3" = 1'-0"



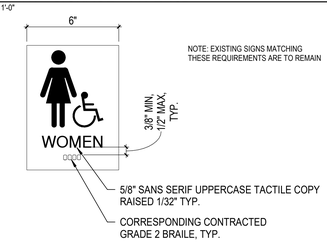
SIGN NAME: ALL GENDER RESTROOM - DOOR

8 A14.00 DETAIL - INT - SIGNAGE - TYPE 10D
SCALE: 3" = 1'-0"



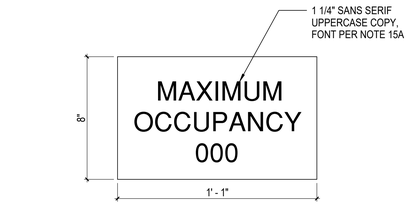
SIGN NAME: MEN'S RESTROOM

7 A14.00 DETAIL - INT - SIGNAGE - TYPE 10B
SCALE: 3" = 1'-0"



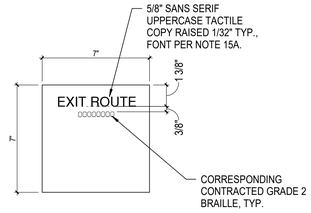
SIGN NAME: MEN'S RESTROOM

6 A14.00 DETAIL - INT - SIGNAGE - TYPE 10A
SCALE: 3" = 1'-0"



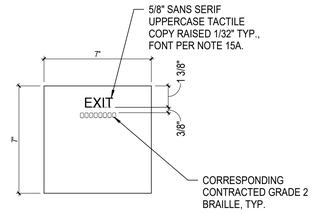
SIGN NAME: MAXIMUM OCCUPANCY

5 A14.00 DETAIL - INT - SIGNAGE - TYPE 5
SCALE: 3" = 1'-0"



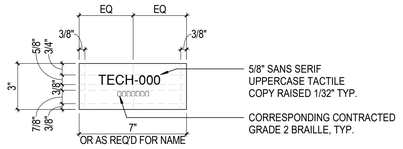
SIGN NAME: EXIT ROUTE

4 A14.00 DETAIL - INT - SIGNAGE - TYPE 3A
SCALE: 3" = 1'-0"

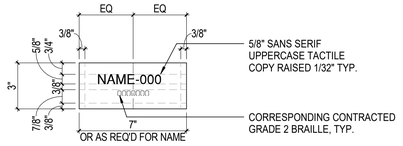


SIGN NAME: EXIT

3 A14.00 DETAIL - INT - SIGNAGE - TYPE 3
SCALE: 3" = 1'-0"

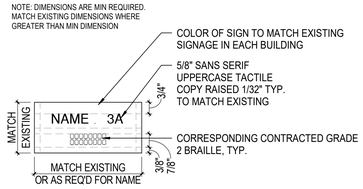


SIGN 1A: ROOM SIGN - GENERAL



SIGN 1B: ROOM SIGN - BACK OF HOUSE (1 LINE)

2 A14.00 DETAIL - INT - SIGNAGE - TYPE 1A & 1B
SCALE: 3" = 1'-0"



SIGN NAME: TYPICAL ROOM SIGN TO MATCH EXISTING

1 A14.00 DETAIL - INT - SIGNAGE - TYPE 1
SCALE: 3" = 1'-0"

DSA APPROVAL STAMP

LICENSED ARCHITECT IRENE MONIS C 27579 REN. 11-30-23 STATE OF CALIFORNIA

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235 Montgomery Street, Suite 350 San Francisco, CA 94104

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DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

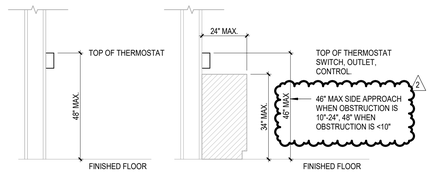
ADDENDUM 2

05/02/2022
Revisions
2 05/02/2022 ADDENDUM 2

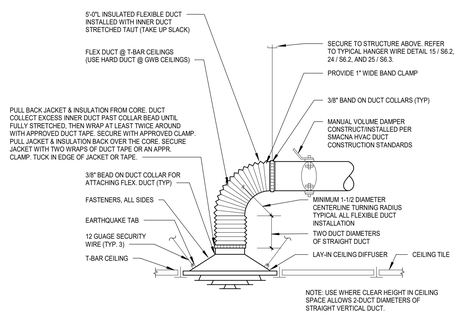
DLR GROUP PROJECT NUMBER:
75-21809-00

SIGN TYPES & SIGNAGE DETAILS

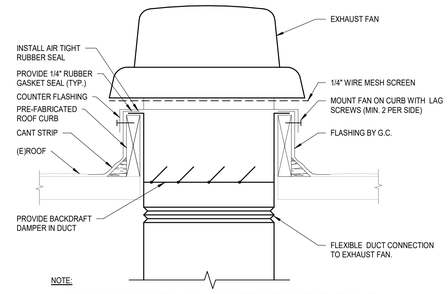
A14.00



3 M7.1 ADA MOUNTING HEIGHT DETAIL
NO SCALE



2 M7.1 CEILING SUPPLY DIFFUSER CONNECTION DETAIL
NO SCALE



NOTE:

1. PROVIDE MINIMUM LENGTH EQUAL TO 3X FAN DIAMETER OF STRAIGHT DUCT AT FAN INLET OR STRAIGHT LENGTH AS RECOMMENDED BY FAN MANUFACTURER, WHICHEVER IS MORE STRINGENT.

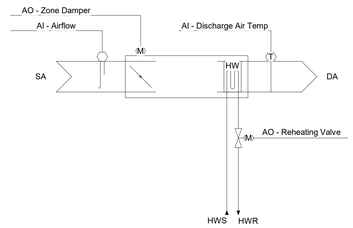
1 M7.1 DOWNBLAST EXHAUST FAN
NO SCALE

1

(E)VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

NOTES:
1.
2.
3.
4.
5.

	ID	AREA SERVE	AIRFLOW MIN	AIRFLOW MAX	HEATING AIRFLOW MAX	EAT (DB)	LAT (DB)	HEATING COIL WATER FLOW	EWT	LWT	NOTES
	(E)VAV-7	PLANETARIUM	1050 CFM	3440 CFM	1720 CFM	55 F	90 F	4.3 GPM	160 F	130 F	
	(E)VAV-8	PRINT SHOP	1400 CFM	2840 CFM	1400 CFM	55 F	90 F	3.5 GPM	160 F	130 F	
	(E)VAV-9	PRINT SHOP	300 CFM	870 CFM	430 CFM	55 F	90 F	1.1 GPM	160 F	130 F	
	(E)VAV-10	PRINT SHOP	250 CFM	780 CFM	390 CFM	55 F	90 F	1.0 GPM	160 F	130 F	
	(E)VAV-11	PRINT SHOP	300 CFM	945 CFM	470 CFM	55 F	90 F	1.2 GPM	160 F	130 F	



POINT NAME	HARDWARE POINTS AI	AO	BI	BO	SOFTWARE POINTS AV	BV	LOOP	SCHED	TREND	ALARM	SHOW ON GRAPHIC
AIRFLOW	X								X		X
ZONE TEMP	X								X		X
REHEATING VALVE		X							X		X
ZONE DAMPER		X							X		X
AIRFLOW SETPOINT					X				X		X
COOLING SETPOINT					X				X		X
HEATING SETPOINT					X				X		X
HEATING MODE						X			X		
SCHEDULE								X			
HIGH ZONE TEMP										X	
LOW ZONE TEMP										X	
TOTALS	2	2	0	0	3	1	0	1	8	2	7

VARIABLE AIR VOLUME - VAV

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 75°F (ADJ.) COOLING SETPOINT
  - A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 85°F (ADJ.) COOLING SETPOINT.
  - A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

OCCUPIED:

- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.).
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

UNOCCUPIED:

- WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.).
- WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE AUXILIARY HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

REHEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT.

WHEN COLD AIR IS AVAILABLE FROM THE AHU AND THERE IS NO FAN PRESENT IN THE BOX, THE ZONE DAMPER SHALL MODULATE TO THE MINIMUM OCCUPIED AIRFLOW (ADJ.). IF MORE HEAT IS REQUIRED, THE ZONE DAMPER SHALL MODULATE TO THE AUXILIARY HEATING AIRFLOW (ADJ.).

4 M7.1 SEQUENCE OF OPERATION - VAV
NO SCALE

DSA APPROVAL STAMP

DLR Group
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DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022

Revisions

1	04/22/2022	Permit Set - Addendum 1
2	05/02/2022	Addendum 2

DLR GROUP PROJECT NUMBER:
75-21809-00

MECHANICAL DETAILS AND SCHEDULES

M7.1

ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
Ø	PHASE
A	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME (CIRCUIT BREAKER)
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
AP	WIRELESS ACCESS POINT
AT	AMP TRIP (CIRCUIT BREAKER OR FUSE)
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VIDEO, AUDIO-VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BJ	BONDING JUMPER
BKR	BREAKER
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CTL	CONTROL
CU	COPPER
DB	DECIBEL
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANELBOARD
DW	DISHWASHER
ECS	EMERGENCY COMMUNICATION SYSTEM
EGB	ELECTRICAL GROUNDING BUSBAR
EMD	ESTIMATED MAXIMUM DEMAND
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EP	EXPLOSION PROOF
ER	EXISTING (TO BE) RELOCATED
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FLA	FULL LOAD AMPS
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
G	EQUIPMENT GROUNDING CONDUCTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
GND	EQUIPMENT GROUNDING CONDUCTOR
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
IC	INTERCOM
IG	ISOLATED GROUND
JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CIRCUIT
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LT	LIGHT
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRTS	MOTOR RATED TOGGLE SWITCH
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TRANSFER SWITCH
N	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NON-FUSED
NL	NIGHT LIGHT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE SCREW AND YOKE
P	POLE(S)
PA	PUBLIC ADDRESS
PB	PULL BOX
PH	PHASE
PIV	POST INDICATOR VALVE
PNL	PANEL
PWR	POWER
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
REF	REFERENCE
RESP	RESPONSIVE
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SEC	SECONDARY
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TIME CLOCK
TGB	TELECOMMUNICATIONS GRONDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GRONDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TS	TAMPER SWITCH
TV	TELEVISION
UG	UNDERGROUND
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WA	TELECOMMUNICATIONS WORK AREA
WG	WIRE GUARD
WP	WEATHER-PROOF (NEMA 3R)
XFMR	TRANSFORMER

SHEET INDEX

CAL GREEN BUILDING CODE

1. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
2. AN OPERATION AND SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
3. FOLLOW ALL REQUIREMENTS OUTLINED ON THIS SPEC 260800 FOR COMMISSIONING.

LIGHTING CONTROLS PROGRAMMING NOTES

1. FURNISH COPIES OF CONSTRUCTION DOCUMENTS, ADDENDA, CHANGE ORDERS, AND APPROVED SUBMITTALS AND DESIGN DRAWINGS RELATED TO LIGHTING CONTROLS EQUIPMENT TO CLIENT.
2. PROVIDE ADDITIONAL REQUESTED DOCUMENTATION, PRIOR TO NORMAL O&M MANUAL SUBMITTALS, TO CLIENT FOR DEVELOPMENT OF START-UP AND FUNCTIONAL TEST PROCEDURES.
3. HELP DEVELOP START-UP AND CHECKOUT PLAN FOR LIGHTING CONTROLS EQUIPMENT BASED ON MANUFACTURER'S RECOMMENDATIONS AND PRE-FUNCTIONAL TEST PROCEDURES FROM CA.
4. DURING START-UP AND CHECKOUT PROCESS, EXECUTE PRE-FUNCTIONAL CHECKLISTS FOR LIGHTING CONTROLS EQUIPMENT.
5. PERFORM FUNCTIONAL PERFORMANCE TESTING, UNDER DIRECTION OF CLIENT, FOR COMMISSIONED EQUIPMENT.
6. RESOLVE EQUIPMENT OR SYSTEM DEFICIENCIES AND RETEST AS REQUIRED TO VERIFY COMPLICIT CONFORMANCE TO CONTRACT DOCUMENTS. ADDITIONAL COSTS INCURRED BY RETESTING TO THE RESPONSIBILITY OF THE PARTY WHO SIGNS OFF ON PRE-FUNCTIONAL CHECKLISTS.
7. PREPARE 0&M MANUALS ACCORDING TO CONTRACTO DOCUMENTS, INCLUDING UPDATING ORIGINAL SEQUENCE OF OPERATIONS TO RECORD CONDITIONS.
8. PROVIDE TRAINING OF OWNER'S OPERATING PERSONNEL.
9. STANDARD TESTING EQUIPMENT REQUIRED TO PERFORM START-UP AND INITIAL CHECKOUT REQUIRED FUNCTIONAL PERFORMANCE TESTING TO BE PROVIDED B DIVISION CONTRACTOR FOR EQUIPMENT BEING TESTED. LIGHTING IS PROVIDED THROUGH LED'S AND CONTROLLED THROUGH LOCAL DIMMING IN ALL SPACES. THIS IS IN ADDITION TO OCCUPANCY SENSORS THROUGHOUT THE SPACE PROVIDING AUTOMATIC SHUT-OFF CONTROLS.

1

GENERAL NOTES

1 MODIFICATIONS TO EXISTING POWER DISTRIBUTION EQUIPMENT: MATCH EXISTING MANUFACTURER, SWITCH TYPE, FUSE TYPE, BREAKER TYPE AND KAIC RATING FOR ALL INSTALLED DEVICES.
2 EXISTING PANEL DIRECTORIES AT PANELS AFFECTED BY WORK: PROVIDE UPDATED TYPED PANEL DIRECTORY. CONSULT OWNER FOR INPUT ON LABELING OF ALL EXISTING CIRCUITS.
3 DEVICES AND LIGHT FIXTURES DENOTED 'ER' ARE EXISTING TO BE RELOCATED. NOTIFY A/E IF DEVICES OR FIXTURES ARE DAMAGED.

GENERAL SITE DEMOLITION NOTES

1 SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
2 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
3 COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

GENERAL POWER NOTES

1 VERIFY ANY NEUTRAL WIRES REQUIRED ON 1Ø OR 3Ø MECHANICAL UNITS FURNISHED UNDER DIVISION 23. IF REQUIRED, PROVIDE NEUTRAL.
2 PROVIDE DEDICATED 120-VOLT CIRCUITS TO ALL HVAC BAS CONTROL DEVICES AND PANELS. COORDINATE QUANTITY WITH DIVISION 23. UTILIZE NEAREST SPARE 120-VOLT, 20/1 BREAKER. LABEL TYPED PANEL DIRECTORY ACCORDING TO LOAD BEING SERVED.
3 IN ADDITION TO DEVICES SHOWN, SEE SCHEDULE SHEETS FOR CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
4 LOCATE SWITCHES FOR CONTROL OF FANS IN TWO-GANG BOX WITH LIGHT SWITCH WHERE APPLICABLE.
5 PROVIDE #10AWG CONDUCTORS FOR ALL WARM AIR DRYER CIRCUITS. PROVIDE LOCKOUT DEVICE AT ALL BREAKERS SERVING WARM AIR DRYERS.

GENERAL LIGHTING NOTES

1 SEE LIGHT FIXTURE SCHEDULE AND SYMBOLS LEGEND FOR MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE.
2 PROVIDE #10AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR LIGHTING CIRCUITS.
3 SEE ARCHITECTURAL BUILDING ELEVATIONS FOR LOCATION OF BUILDING MOUNTED EXTERIOR LIGHT FIXTURES.
4 PROVIDE BEAD OF SILICON SEALANT AROUND RECESSED BACK BOX PERIMETER AT ALL BUILDING MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS.
5 CIRCUIT FIXTURES DENOTED WITH 'NL' AS UNSWITCHED NIGHT LIGHTS.
6 FIXTURES DENOTED WITH LOWER CASE LETTERS SHALL BE CONTROLLED BY SWITCHES DENOTED WITH THE SAME LOWER CASE LETTER IN EACH ROOM.

GENERAL DEVICE BOX NOTES

1 SEE SYMBOLS LEGEND THIS SHEET FOR MOUNTING HEIGHTS UNLESS NOTED OTHERWISE ON DRAWINGS.
2 ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF BOXES UNLESS NOTES OTHERWISE.
3 PROVIDE BOX EXTENDER FOR FLUSH INSTALLATION OF DEVICES LOCATED IN ARCHITECTURAL CASEWORK THAT IS FLUSH WITH ADJACENT WALL (SUCH AS RECEPTACLES FOR GARBAGE DISPOSERS).
4 FLOOR BOXES: OBTAIN OWNER APPROVAL OF ALL BOX LOCATIONS PRIOR TO ROUGH IN. PROVIDE DEVICE PLATES AT DEVICES AND BLANK PLATES AT ALL UNUSED COMPARTMENTS.
5 COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND SYSTEMS DEVICES WITH MARKERBOARDS. ADJUST BOX LOCATIONS TO AVOID MARKERBOARDS.
6 COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND SYSTEMS DEVICES WITH TACKBOARDS. ADJUST BOX LOCATIONS TO AVOID TACKBOARDS. PROVIDE BOX EXTENDER FOR A FLUSH INSTALLATION WHERE DEVICES MUST BE MOUNTED AT TACKBOARD/TACKWALL.
7 CEILING MOUNTED RECEPTACLES: AT SUSPENDED CEILINGS, ROUTE POWER TO RECEPTACLE VIA FLEXIBLE METALLIC CONDUIT WITH 6-FOOT SERVICE LOOP. FEED FMC FROM A J-BOX RIGIDLY SUPPORTED A MAXIMUM OF 24-INCHES ABOVE SUSPENDED CEILING OR AT BOTTOM OF STRUCTURE ABOVE, WHICHEVER IS LOWER. LOCATE J-BOX DIRECTLY ABOVE RECEPTACLE AND SUPPORT VIA STRUCTURE, OR VIA THREAD ROD AND UNISTRUT HUNG FROM STRUCTURE ABOVE IN HIGH STRUCTURE APPLICATIONS.
8 DEVICES RECESSED IN MULLIONS: BACK BOXES TO BE RECESSED FOR FLUSH NSTALLATION OF DEVICE AND WALLPLATE. EXTEND CONCEALED CONDUIT IN MULLION UP TO WALL ABOVE AND STUB OUT ABOVE ACCESSIBLE CEILING. IN AREAS WITH NO CEILING, EXTEND CONDUIT TOWARDS CABLING SOURCE TO ABOVE NEAREST ACCESSIBLE CEILING.

GENERAL SYSTEMS NOTES

DIVISION 26

1 TELECOMMUNICATIONS OUTLETS: PROVIDE TWO-GANG BOX (2.25-INCH DEEP MINIMUM) WITH SINGLE-GANG STRAP MOUNT PLASTER RING AND 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING (EXCEPTION: VOICE-ONLY OR VIDEO-ONLY OUTLETS PER NOTE BELOW).
2 TELECOMMUNICATIONS OUTLET INDICATED AS ROUGH IN ONLY (NO SUBSCRIPTS): INSTALL PER NOTE ABOVE, WITH BLANK 302SS SINGLE-GANG WALLPLATE.
3 VOICE-ONLY OR VIDEO-ONLY TELECOMMUNICATIONS OUTLET: PROVIDE SINGLE-GANG BOX WITH 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING.
4 MISCELLANEOUS LOW VOLTAGE OUTLETS (CALL STATIONS, HANDSETS, VOLUME CONTROL, MICROPHONE OUTLETS, SURFACE-MOUNT WALL SPEAKERS AND FIRE ALARM DEVICES): PROVIDE SINGLE-GANG BOX WITH 3/4-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING.
5 INSULATED BUSHINGS: PROVIDE BUSHINGS ON ALL CONDUIT STUB UPS, INCLUDING BUT NOT LIMITED TO, OUTLETS FOR TELECOMMUNICATIONS, FIRE ALARM, SECURITY, ACCESS CONTROL, MASS NOTIFICATION, PUBLIC ADDRESS, ALL OTHER LOW VOLTAGE INTERCOMMUNICATIONS AND UNUSED STUB-UPS OR STUB-UPS INDICATED FOR FUTURE USE.
6 FLOOR BOXES CONTAINING TELECOMMUNICATIONS OUTLETS: FOR EACH LOW-VOLTAGE COMPARTMENT, ROUTE 1-INCH CONDUIT WITH PULL STRING UNDERFLOOR, UP NEAREST WALL, AND STUB INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING. LABEL CONDUIT END 'FLOOR BOX'
7 SLEEVES FOR LOW VOLTAGE CABLES: PROVIDE 2-INCH SLEEVES UNLESS NOTED OTHERWISE. COORDINATE WITH PATH OF DUCTWORK AND GWB CEILING TO ENSURE ACCESSIBILITY, EXTEND SLEEVES AS REQUIRED. INSTALL ALL SLEEVES 4-INCHES ABOVE HIGHER CEILING OF TWO ADJACENT SPACES. REFER TO ROOM FINISH SCHEDULES AND REFLECTED CEILING PLANS FOR CEILING HEIGHTS. STUB SLEEVES INTO JOIST SPACE OF FINISHED ROOMS WITH EXPOSED STRUCTURE. PROVIDE INSULATED BUSHINGS ON BOTH ENDS OF ALL SLEEVES, INCLUDING UNUSED SLEEVES. PROVIDE GROUT OR ESCUTCHEONS TO SECURE SLEEVES TO WALL. PROVIDE FIRE-RATED SLEEVES AT ALL FIRE-RATED WALLS.
8 PROVIDE ADDITIONAL CONDUIT, BOXES, CONDUCTORS AND OVERCURRENT PROTECTION FOR 120-VOLT BRANCH CIRCUITS NOT SPECIFICALLY COVERED UNDER DIVISION 26 WORK, BUT REQUIRED TO COMPLETE DIVISION 08 AND 28 WORK. DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, POWER SUPPLIES FOR DOOR HARDWARE, ACCESS CONTROL, FIRE ALARM AND VIDEO SURVEILLANCE.
9 PROVIDE WATERFALL DROPOUTS AT ALL CABLE TRAY LOCATIONS ABOVE RUNWAYS, WALL/FLOOR MOUNTED RACKS, AND EQUIPMENT ENCLOSURES.
10 AUDIO VISUAL (AV) SYSTEMS: PROVIDE RECESSED BOXES, CONDUIT AND PULL STRINGS FOR ALL SYSTEM COMPONENTS.

GENERAL DEMOLITION NOTES

1 ITEMS INDICATED ON DEMOLITION PLANS ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATIONS AND ARE INTENDED TO GIVE THE BIDDER A GENERAL REPRESENTATION OF EXISTING CONDITIONS.
2 REMOVE ALL ITEMS SHOWN FULL-TONE OR NOTED ELSEWHERE IN THE DOCUMENTS TO BE REMOVED OR DEMOLISHED. DEMOLISH ADDITIONAL ITEMS NOT SHOWN ON DRAWINGS, BUT WHICH MUST BE REMOVED TO COMPLETE THE PROJECT.
3 ITEMS SHOWN HALF-TONE ARE EXISTING TO REMAIN.
4 RELOCATE ITEMS DENOTED 'ER'. SEE LIGHTING, POWER AND/OR SPECIAL SYSTEM SHEETS FOR NEW LOCATIONS. 'ER' IS DEFINED AS EXISTING (TO BE) RELOCATED.
5 EXISTING CONDUIT MAY REMAIN IF ALL THE FOLLOWING ARE TRUE:
A. IT CAN BE REUSED TO FEED DEVICES INSTALLED UNDER THIS CONTRACT.
B. IT DOES NOT INTERFERE WITH OTHER TRADES.
C. IT WAS ORIGINALLY INSTALLED MEETING SPECIFICATIONS RELATED TO THIS PROJECT.
D. IT WILL NOT BE EXPOSED IN A FINISHED AREA (UNLESS NOTED OTHERWISE).
6 PROVIDE ELECTRICAL DEMOLITION ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE REMOVED. IN ADDITION TO DEVICES SHOWN, REFER TO MECHANICAL AND ARCHITECTURAL DEMOLITION SHEETS TO DETERMINE EQUIPMENT TO BE REMOVED.
7 6.MAINTAIN FUNCTIONALITY OF ALL EXISTING LOW VOLTAGE SYSTEMS INCLUDING, BUT NOT LIMITED TO, TELECOM CABLING NETWORKS, INTERCOM, CLOCKS, FIRE ALARM, SAFETY AND SECURITY DURING ALL PHASES OF CONSTRUCTION. PROVIDE TEMPORARY INTERCONNECTIONS AS REQUIRED TO ACCOMMODATE CONSTRUCTION SCHEDULE.

* NOTE *

ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF DRAWINGS.

GENERAL SYMBOLS

- POINT OF DISCONNECT - DEMOLITION REMOVED FROM EXISTING
- POINT OF CONNECTION - NEW CONNECTS TO EXISTING
- AREA NOT IN CONTRACT

ELECTRICAL SYMBOLS

LIGHTING

LIGHTING FIXTURE TAG

XXX / XXX-X / XXX-X — FIXTURE TYPE; CKT DESIGNATION (PNL - CKT NO.); RELAY PANEL - RELAY NO. OR LOCAL SWITCH DESIGNATION

LIGHTING FIXTURES

- LIGHTING FIXTURE
- LIGHTING FIXTURE ON EMERGENCY BUILT-IN BATTERY SYSTEM *
- CEILING FIXTURE, SURFACE, RECESSED OR PENDANT
- LIGHTING FIXTURE ON EMERGENCY BUILT-IN BATTERY SYSTEM *
- LIGHTING TRACK, TRACK MOUNTED LIGHT FIXTURES
- LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- WALL WASHER *
- HIGH BAY LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- EXIT SIGN

AREA LIGHTING

- SITE LIGHTING - POLE
- POLE MOUNTED AREA LIGHTING FIXTURE
- POLE WITH POLE MOUNTED AREA LIGHTING FIXTURE
- WALL MOUNTED AREA LIGHTING FIXTURE
- IN GRADE LIGHT FIXTURE
- BOLLARD LIGHT FIXTURE

LUTRON LIGHTING CONTROL DEVICES

OS	LRG2-OCR2B-P (OCCUPANCY SENSOR)
P2RL	PJ2-2BRL-GW-L01 (PICO WALL CONTROLS)
R20	CAR2S-20-DTR-WH (WIRELESS RECEPTACLES)
1T	FCJS-010 (POWPAK)
8DS	MRF2S-8SD010-WH (DIMMING SWITCH)
8SS	MRF2S-8SS-WH (MANUAL ON/OFF SWITCH)
8T	RMJS-8T-DV-B (POWPAK)

NOTES:
(*) - PROVIDE 90 MIN. BATTERY BACKUP

SWITCHES AND WALL-BOX CONTROLS

SWITCHES: MOUNT 42-INCHES AFF UNO

- SUPERSCRIPT , SWITCH SHALL CONTROL FIXURE DENOTED WITH SAME LOWER CASE LETTER
- SWITCH SYMBOL
- SUBSCRIPT, SWITCH TYPE - SEE BELOW
- LINE THRU SWITCH INDICATES A KEY OPERATED SWITCH

S	SWITCH, SINGLE POLE
S_2	SWITCH, DOUBLE POLE
S_3	SWITCH, 3-WAY
S_4	SWITCH, 4-WAY
S_D	SWITCH, DIMMER
S_E	SWITCH, EMERGENCY
S_{LV}	SWITCH, LOW VOLTAGE
S_{MC}	SWITCH, MOMENTARY CONTACT
S_{OS}	SWITCH, WALL-BOX OCCUPANCY SENSOR
S_{OS2}	SWITCH, WALL-BOX OCCUPANCY SENSOR, 2-POLE
S_P	SWITCH WITH PILOT LIGHT
S_R	SWITCH, LOW VOLTAGE, ASSOCIATED WITH RELAY PANEL
S_T	SWITCH, TIMER
S_{ES}	SWITCH, ECO-SYSTEM
S_{EP}	SWITCH, EXPLOSION-PROOF

POWER

- CIRCUIT HOME RUN
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB-UP
- CONDUIT SLEEVE
- CONDUIT SEAL
- CONDUIT CONCEALED IN CEILING OR WALLS, POWER
- CONDUIT CONCEALED IN CEILING OR WALLS, OTHER (* = SEE ABBREVIATIONS)
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, POWER
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, OTHER (* = SEE ABBREVIATIONS)
- EXPOSED CONDUIT, POWER
- EXPOSED CONDUIT, OTHER (* = SEE ABBREVIATIONS)
- XXX — BRANCH CIRCUIT PANELBOARD MOUNT 72-INCHES TO TOP
- XXX — DISTRIBUTION PANELBOARD MOUNT 72-INCHES TO TOP
- EQUIPMENT CABINET, AS NOTED
- XXX — SWITCHBOARD
- MOTOR STARTER OR DRIVE
- DISCONNECT SWITCH
- COMBINATION STARTER / DISCONNECT SWITCH
- S_F — FUSE AND SWITCH ASSEMBLY
- S_T — MANUAL CONTROLLER WITH THERMAL OVERLOAD
- S_M — MANUAL CONTROLLER W/O THERMAL OVERLOAD
- B — CIRCUIT BREAKER ENCLOSURE
- PB — PULL BOX
- EQUIPMENT CONNECTION
- CABLE TRAY, LADDER TYPE OR RUNWAY
- CABLE TRAY
- MULTI-OUTLET ASSEMBLIES MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER
- DIVIDED SURFACE RACEWAY MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER

RECEPTACLES: MOUNT 18-INCHES AFF, UNO

DIAGONAL LINE THROUGH SYMBOL OR DENOTED 'AC' INDICATES MOUNT DEVICE ABOVE COUNTER. WHERE INDICATED AS 'MOUNT ABOVE COUNTER' MOUNT BOTTOM OF BOX 2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH EXISTS.

LABELS SHALL BE MACHINE PRINTED, UNO

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, GFI TYPE
- DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER
- DUPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
- FOURPLEX RECEPTACLE
- FOURPLEX RECEPTACLE, GFI TYPE
- FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER
- FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
- DUPLEX RECEPTACLE, FLUSH IN CEILING
- DUPLEX RECEPTACLE, HORIZONTALLY MOUNTED
- DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE
- DUPLEX RECEPTACLE, HORIZ. MTD, ABOVE COUNTER
- DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE, MOUNT ABOVE COUNTER
- DUPLEX RECEPTACLE, LOWER SWITCH
- DUPLEX RECEPTACLE, SWITCHED
- RANGE RECEPTACLE, MOUNT 8-INCHES AFF
- SPECIAL RECEPTACLE, DEEP WELL BOX
- FLUSH FLOOR OUTLET BOX UNO
- FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE UNO
- MULTI-DEVICE FLOOR BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATIONS OUTLETS
- FLUSH JUNCTION BOX, CEILING MOUNTED
- FLUSH JUNCTION BOX, WALL MOUNTED
- SURFACE JUNCTION BOX, WALL MOUNTED
- SURFACE JUNCTION BOX, CEILING MOUNTED
- DUPLEX/USB COMBINATION RECEPTACLE, HORIZONTALLY MOUNTED
- TELE-POWER POLE

COMMUNICATIONS

TELECOMMUNICATIONS OUTLETS: MOUNT 18-INCHES AFF, UNO, AND WITHIN 8-INCHES OF ADJACENT RECEPTACLE WHERE DENOTED 'AC', MOUNT ABOVE COUNTER WHERE DENOTED 'C', MOUNT FLUSH IN CEILING

X,Y,Z TELECOMMUNICATIONS OUTLET PROVIDE JACKS UNDER A COMMON FACEPLATE:
X = QTY OF VOICE JACKS
Y = QTY OF DATA JACKS
Z = QTY OF VIDEO JACKS

TELECOMMUNICATIONS OUTLET WITH HDMI OUTLET FOR TV CONNECTION

FIRE LIFE SAFETY

- F — HORN-STROBE
- F — MANUAL PULL STATION

1 2

APPLICABLE CODE: 2019 CBC 02/05/2020 REVISED: 02/14/2020

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND
DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT
DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP ☐ MD ☐ PP ☐ E ☑ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0052-13 .

CODE ANALYSIS

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators *(per 2019 CBC Part 2 Ch 35)*
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

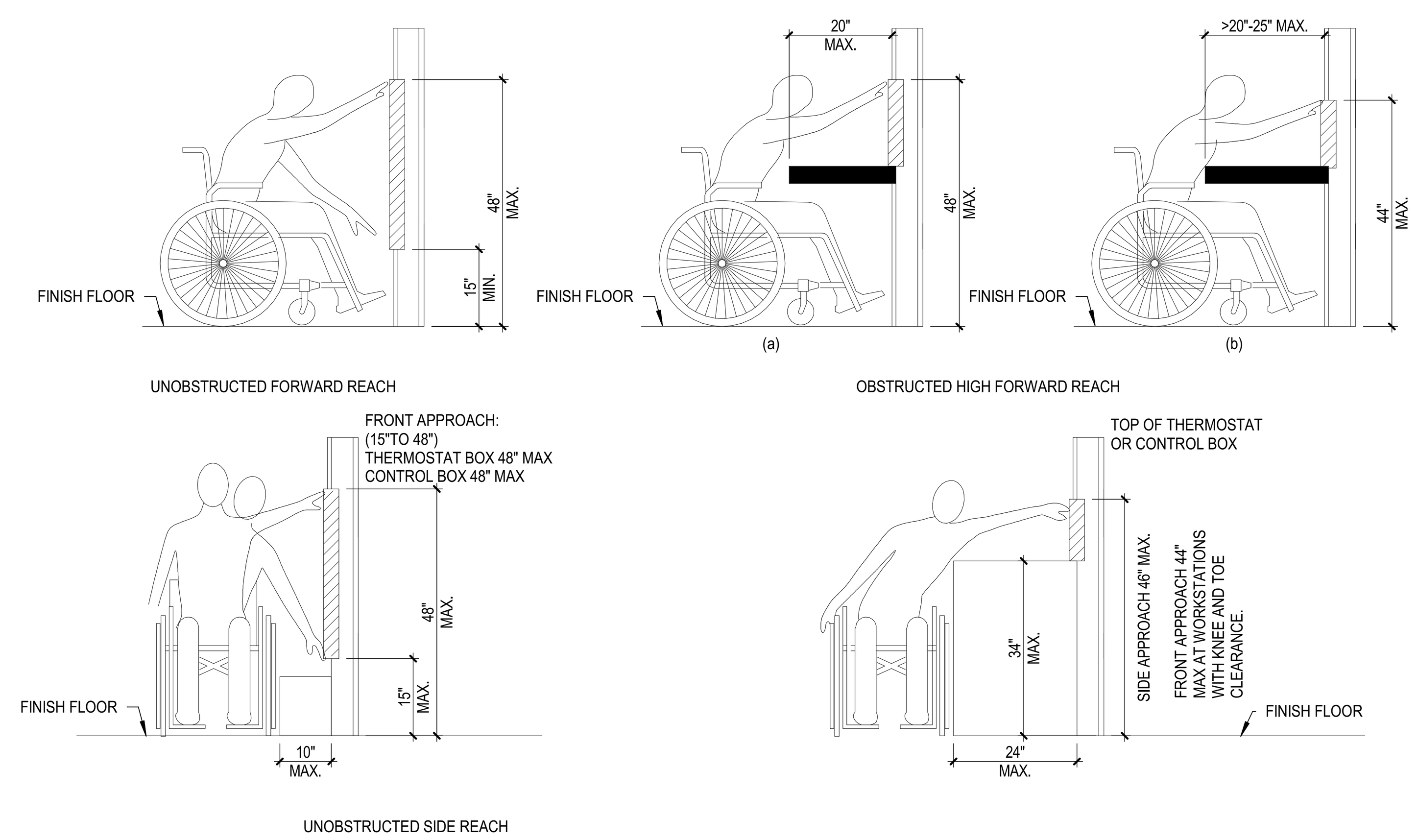
PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended)......................2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems..2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems...2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection..................2016 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection..2013 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)..2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended)....................................2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives....................................2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)............2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment..2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories..2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.......................1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired....................................2002 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands........2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.



NOTE:

1. FIXTURES AND DEVICES ARE BASED ON 2019 CBC, FIGURE 11B-308.2.1 FOR UNOBSTRUCTED FORWARD REACH, FIGURE 11B-3082.2 FOR OBSTRUCTEDHIGH REACH, FIGURE 11B-308.3.1 FOR UNOBSTRUCTED SIDE REACH, AND FIGURE 11B-308.3.2 FOR OBSTRUCTED HIGH SIDE REACH.
2. ALL THERMOSTATS AND CONTROLS SHALL BE INSTALLED AND COMPLIANT PER 2019 CBC 11B-308.
3. PROVIDE 30"WX27"HX19"-25"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION

Lighting Fixture Schedule

TYPE	CONSTRUCTION		LIGHT SOURCE			ELECTRICAL					PRODUCT				
	DESCRIPTION	MOUNTING	LAMP	LUMENS	CCT	BALLAST/DRIVER	VOLT	WATTS	EFFICACY	WATTS PER FOOT	MFR	MODEL	CATALOG NUMBER	NOTES	WEIGHT
L-01E	RECESSED ARCHITECTURAL FLOOD LIGHT	RECESSED, CEILING	LED	2341 LM	3000 K	0-10V, DIM 10%	UNV	27W	0.89		WESTGATE	RADIUS SERIES	CRL4-27W-30K	FOR FIXTURES SHOWN AS A DARK SOLID, PROVIDE EM BATTERY PACK (OPT-EM-HB1EXT OR SIMILAR AS RECOMMENDED BY MANUFACTURER)	8LBS
L-02	SURFACE MOUNTED COMMERCIAL LIGHTING	CEILING MOUNTED	LED	4480 LM	3000 K	0-10V, DIM 10%	UNV	40W			WESTGATE	SCX SERIES	SCX-4FT-40W-30K-D		
L-03	EXTERIOR ABOVE DOOR WALLPACK	SURFACE MOUNTED	LED	4320 LM	3000 K	0-10V, DIM 10%	UNV	32W			WESTGATE	WPX SERIES	WPX-32W-MCTP-OPT-EM-0D1INT	PROVIDE PHOTOCELL IN EACH ASSEMBLY	
X1	SINGLE FACE EXIT SIGN	CEILING MOUNTED	LED				UNV	4W			WESTGATE	XT SERIES	XT-CL-RW-EM-DUAL VOLTAGE-SINGLE-WHITE-NI_CAD-RED		
X2	DOUBLE FACED EXIT SIGN	CEILING MOUNTED	LED				UNV	5W			WESTGATE	XT SERIES	XT-CL-RW-EM-DUAL VOLTAGE-DOUBLEWHITE-NI_CAD-RED		
X3	SINGLE FACED EXIT SIGN	WALL MOUNTED	LED				UNV	5W			WESTGATE	XT SERIES	XT-CL-RW-EM-DUAL VOLTAGE-DOUBLEWHITE-NI_CAD-RED	PROVIDE BRACING AND STEEL PLATE FOR END MOUNTING.	

Specific Notes:

1. Contractor shall coordinate with lighting floor plans for the required length of fixture required

2. Provide all necessary hardware for a complete working system

DSA APPROVAL STAMP

DLR Group
235 Montgomery Street, Suite 350 San Francisco, CA 94104

DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022

Revisions

1	04/22/2022	Permit Set - Addendum 1
2	05/02/2022	Addendum 2

DLR GROUP PROJECT NUMBER:
SHEET NOTES

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E0.1

BIM 360://75-21809-00 CCCCD - Print Shop Relocation/75-21809-00_Print Shop_MEP_2020.rvt
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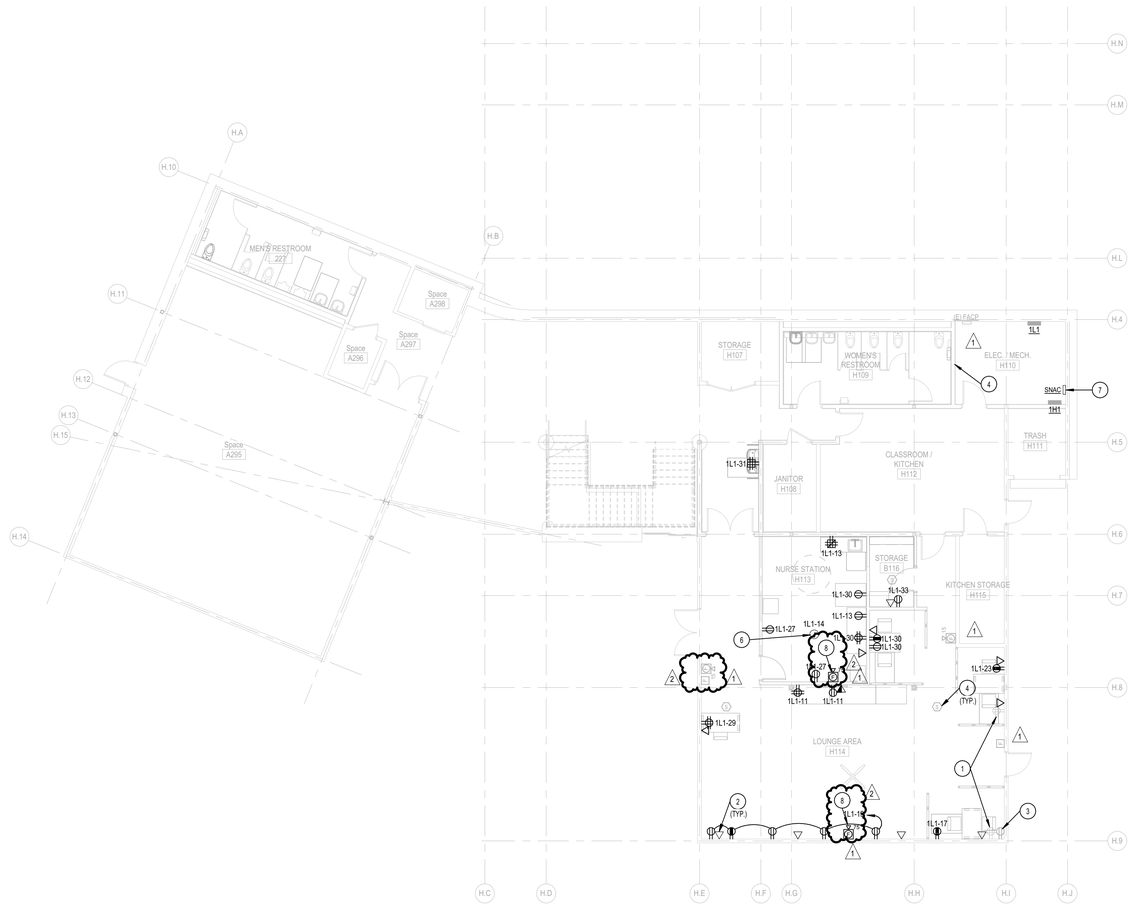

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HEALTH SERVICES INSIDE OF THE STUDENT UNION BUILDING - LEVEL 1 - POWER PLAN

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

LEGEND AND NOTES

GENERAL NOTES

A AVOID INSTALLING ANY NEW FLOOR BOXES, POKE-THRU DEVICES, OR MAKING PENETRATIONS INTO EXISTING FLOOR/CEILINGSUNLESS OTHERWISE SPECIFIED. OBTAIN APPROVAL FROM EEOR AND AOR PRIOR TO PROCEEDING WITH AN WORK INVOLVING NEW FLOOR BOXES AND/OR POKE-THRU DEVICES.

SHEET NOTES

1 MOVE EXISTING OUTLET TO COMPLY WITH ADA HEIGHT REQUIREMENTS (15"AFF, FROM BASE OF BOX). EXTEND CIRCUIT CONNECTIONS AS NECESSARY.

2 INSTALL A SINGLE GANG 4 11/16"SQ X 2 1/8"D BACKBOX WITH (2) DATA JACKS. PROVIDE 3/4"C MIN. AND ROUTE TO THE EXISTING DATA RACK. PROVIDE CAT CABLING PER CAMPUS IT REQUIREMENTS. COORDINATE INSTALLATION OF A NEW BLADES SERVER IN EXISTING RACK WITH CAMPUS IT DEPARTMENT.

3 (E) DUPLEX OUTLET @7-FT AFF FED FROM 1L1-17 TO REMAIN. PROTECT IN PLACE.

4 CONTRACTOR TO COORDINATE WITH DISTRICT FOR THE ADDITION OF BLADES TO EXISTING BLADE SERVER. PROVIDE ALL NECESSARY CONDUITS, SUPPORTS, WIRES, AND OTHER REQUIREMENTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION

4 (E) SMOKE DETECTOR. TO BE REMOVED AND RELOCATED TO LOCATION INDICATED ON DRAWING SET.

6 PROVIDE 125VAC, 1PH., 30A, DISCONNECT SWITCH. TYPICAL FOR ALL VAV'S. PROVIDE ACCESS PANEL WHERE CEILING DOES NOT PERMIT ACCESS. PROVIDE 1"C FOR CONTROL WIRING. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

7 (N) REMOTE BOOSTER POWER SUPPLY. PROVIDE A DEDICATED 120V POWER SUPPLY FROM NEAREST PANEL BOARD. PROVIDE LOCK ON DEVICE ON BRAKER. FIELD VERIFY LOCATION IF SUITABLE FOR INSTALLATION. IF INDICATED AREA IS UNACCEPTABLE FOR INSTALLATION, PROVIDE ALTERNATIVES LOCATIONS WITHIN THE ROOM OR CONTACT EEOR/AOR FOR INSTALLATION OUTSIDE OF ELECTRICAL ROOM. PROVIDE CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL.

8 (N) HORN-STROBE TO BE WALL MOUNTED. FEED DIRECTLY FROM NEW SNAC PANEL LOCATED AT ELECTRICAL ROOM.

8 (N) HORN-STROBE TO BE WALL MOUNTED. FEED DIRECTLY FROM NEW SNAC PANEL LOCATED AT ELECTRICAL ROOM. 1

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DLR Group
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DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022

Revisions

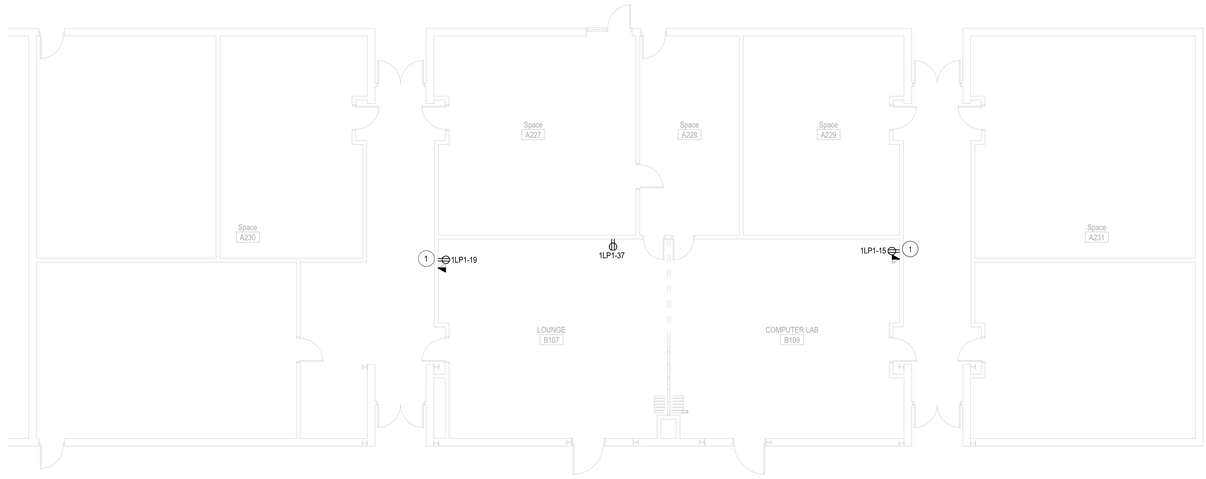
1	04/22/2022	Permit Set - Addendum 1
2	05/02/2022	Addendum 2

DLR GROUP PROJECT NUMBER:

SHEET NOTES

HEALTH SERVICES - STUDENT UNION BLDG - LEVEL 01 - POWER PLAN

E2.10



N

BUSINESS / FOREIGN LANGUAGE BUILDING - LEVEL 01 - POWER PLAN

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

2

LEGEND AND NOTES

GENERAL NOTES

A AVOID INSTALLING ANY NEW FLOOR BOXES, POKE-THRU DEVICES, OR MAKING PENETRATIONS INTO EXISTING FLOOR/CEILINGSUNLESS OTHERWISE SPECIFIED. OBTAIN APPROVAL FROM EEOR AND AOR PRIOR TO PROCEEDING WITH AN WORK INVOLVING NEW FLOOR BOXES AND/OR POKE-THRU DEVICES.

SHEET NOTES

1 REMOVE OUTLET AND INSTALL NEW DUPLEX POWER/HDMI COMBO BOX (LEGRAND TVTWTVS OR EQUAL). MOUNT AT 48"AFF. PROVIDE 3#12 AWG COPPER WIRES IN 3/4" EMT. COORDINATE WITH CAMPUS TO CONFIRM CONNECTIONS WITH TV/MONITOR CUT-SHEET.

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STUDENT SERVICES - BUSINESS/FOREIGN LANGUAGE BLDG AND PAC - LEVEL 01 - POWER PLANS

E2.20

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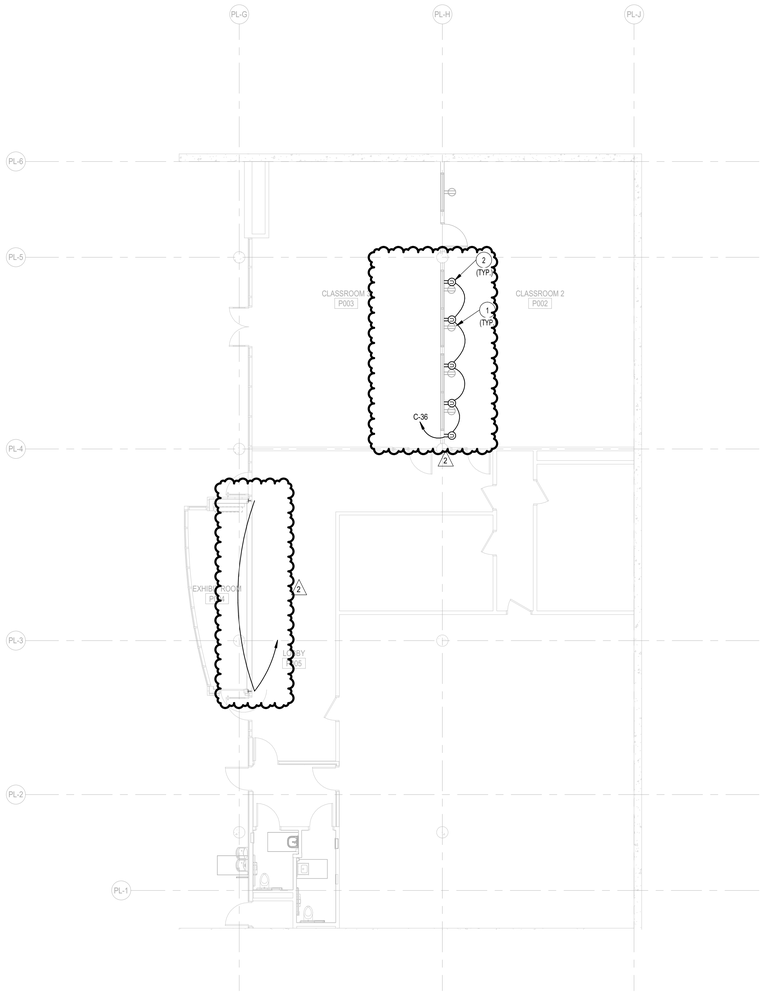
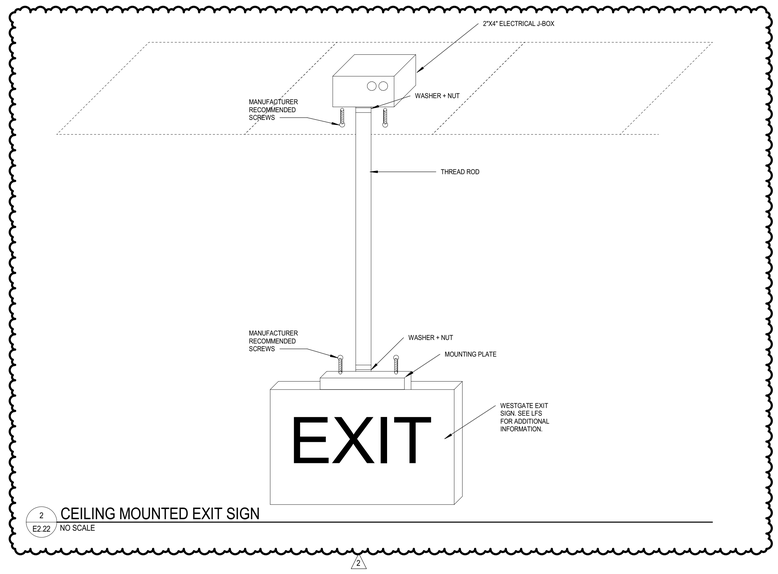


N

PLANETARIUM - LEVEL 01 - ELECTRICAL POWER PLAN

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



2 / E2.22 CEILING MOUNTED EXIT SIGN

NO SCALE

2

LEGEND AND NOTES

GENERAL NOTES

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SHEET NOTES

1 DEVICES ARE TO BE REMOVED AND RELOCATED TO 15"AFF (FROM BOTTOM OF RECEPTACLE). REUSE EXISTING CIRCUITS.

2 PROVIDE NEW DUPLEX/USB RECEPTACLES TO BE MOUNTED AT 36" AFF

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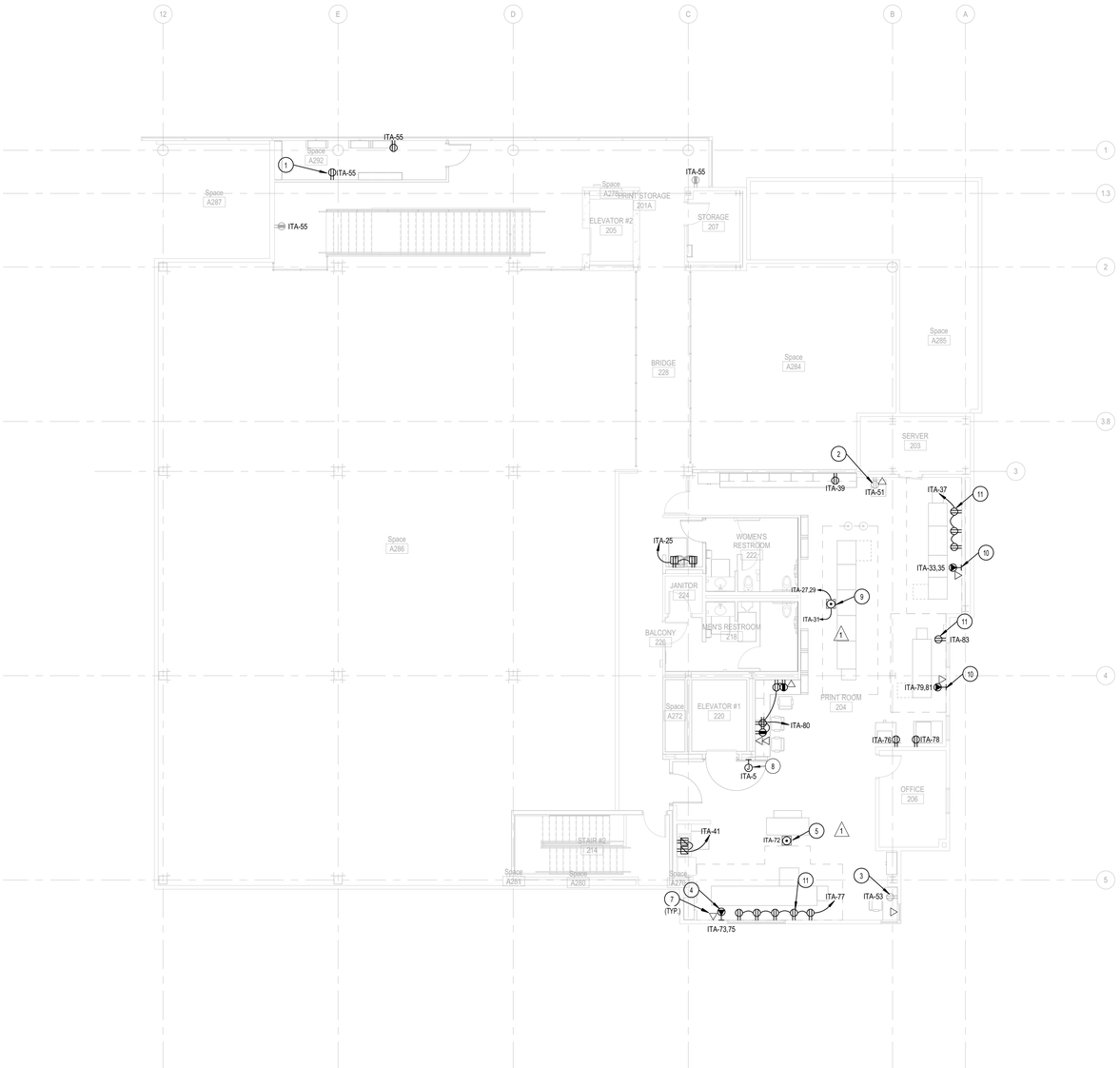
SHEET NOTES

STUDENT SERVICES - PLANETARIUM - LEVEL 01 - POWER PLAN

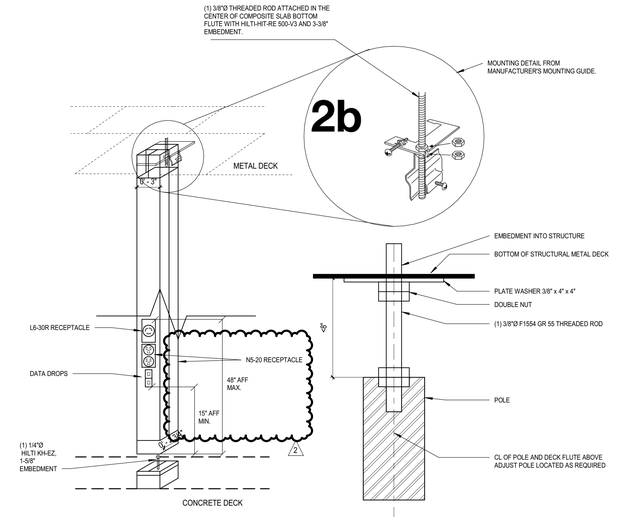
E2.22



N

PRINT SHOP - BOOKSTORE - LEVEL 02 - POWER PLAN

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



2 / E2.31 POWER POLE MOUNTING DETAIL

NO SCALE

1

LEGEND AND NOTES

GENERAL NOTES

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SHEET NOTES

1 INTERCEPT THE (2)(N) DATA OUTLETS INTO CIRCUIT FOR (E) OUTLET OUTSIDE OF THE ROOM.

2 EXISTING CIRCUIT TO BE PROTECTED IN PLACE AND REORGANIZED IN ORDER TO SERVE A COPIER AS A DEDICATED CIRCUIT.

3 CIRCUIT TO BE REUSED FOR NEW WORKSTATION. PROTECT IN PLACE WHILE NEW DUPLEX DATA OUTLET IS ADDED.

4 PROVIDE 208V, 1PH, 30A, NEMA 6-30R RECEPTACLE FOR PRINTER.

5 PROVIDE LEGRAND TELE-POWER POLE (30TP-4WH). PROVIDE (2) DUPLEX RECEPTACLES AND (2) DATA DROPS LOCATED BELOW THE TWO POWER RECEPTACLES. FIELD COORDINATE CONDITIONS PRESENT AND COORDINATE WITH MANUFACTURER FOR ALL NECESSARY COMPONENTS REQUIRED FOR MOUNTING AND COMPLETE INSTALLATION. 1

7 INSTALL A SINGLE GANG 4 11/16"SQ X 2 1/8"D BACKBOX WITH (2) DATA JACKS. PROVIDE 3/4"C MIN. AND ROUTE TO THE EXISTING DATA RACK. PROVIDE CAT CABLING PER CAMPUS IT REQUIREMENTS.COORDINATE INSTALLATION OF NEW BLADE SERVERS WITHIN (E) RACK WITH CAMPUS IT DEPARTMENT.

8 NEW MAGNETIC DOOR HOLD-OPEN. PROVIDE 120V, 20A CIRCUIT, AND ALL NECESSARY BACKBOXES AND RACEWAYS NEEDED FOR A COMPLETE INSTALLATION. CONNECT DOOR HOLD-OPEN WITH MAIN FIRE ALARM CONTROL PANEL OF BUILDING.

9 PROVIDE LEGRAND TELE-POWER POLE (30TP-4WH) WITH ADDITIONAL PROVISIONS FOR DUPLEX (N5-15/ 30TP-BWH) RECEPTACLES AND SINGLE (L6-30R/30TP-JWH) RECEPTACLE. PROVIDE (2) DUPLEX RECEPTACLES AND (1) L6-30R RECEPTACLES ON THE NORTH FACING SIDE OF THE POLE AND (2) DUPLEX RECEPTACLES ON THE SOUTH FACING SIDE. PROVIDE (2) DATA DROPS ON BOTH SIDES OF THE POWER POLE. FIELD COORDINATE CONDITIONS PRESENT AND COORDINATE WITH MANUFACTURER FOR ALL NECESSARY COMPONENTS REQUIRED FOR MOUNTING AND COMPLETE INSTALLATION. ROUTE CONDUITS AT HIGH-CEILING USING EXISTING UNISTRUT SUPPORT FOR EXISTING CONDUITS AND PAINT TO MATCH EXISTING FINISH TO SATISFACTION OF CLIENT.

10 PROVIDE (1) L6-30R, 208V, 30A RECEPTACLES FOR PRINTER.

11 PROVIDE N5-20, 120V, 20A RECEPTACLES FOR PRINTER.

1

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SHEET NOTES

PRINT SHOP - BOOKSTORE - LEVEL 02 - POWER PLAN

E2.31

ABBREVIATIONS

(D)	DEMOLISHED		
(E)	EXISTING	N	NITROGEN
(R)	RELOCATED	N2O	NITROUS OXIDE
°C	DEGREES CELSIUS	N.C.	NORMALLY CLOSED
°F	DEGREES FAHRENHEIT	N.O.	NORMALLY OPEN
Ø	DIAMETER	NO	NUMBER
		NO2	NITROGEN DIOXIDE
A/C	AIR CONDITIONING(ER)	NOM	NOMINAL
AAV	AUTOMATIC AIR VENT		
ACC	ACCESSIBLE	O&M	OPERATION AND MAINTENANCE
AD	AREA DRAIN	OD	OUTSIDE DIAMETER
ADJ	ADJUSTABLE	ORD	OVERFLOW ROOF DRAIN
AGF	AIR GAP FITTING	OS&Y	OUTSIDE SCREW AND YOKE
AHU	AIR HANDLING UNIT	OVFL	OVERFLOW
ANCH	ANCHOR	OX	OXYGEN
AR	ACID RESISTING		
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	P	PUMP
AUTO	AUTOMATIC	P/T	PRESSURE/TEMPERATURE TEST PORT
AV	AUDIO-VIDEO, AUDIO-VISUAL	PC	PUMPED CONDENSATE
AV	ACID VENT	PCF	POUNDS PER CUBIC FOOT
AV	AIR VENT	PD	PRESSURE DROP
		PD	PUMP DISCHARGE
BBO	BOILER BLOW OFF	PDI	PLUMBING & DRAINAGE INSTITUTE
BC	BALANCING COCK	PG	PRESSURE GAUGE
BF	BOILER FEED	PI	PRESSURE INDICATOR
BFF	BELOW FINISH FLOOR	PIV	POST INDICATOR VALVE
BFP	BACKFLOW PREVENTER	PLBG	PLUMBING
BFV	BUTTERFLY VALVE	POC	POINT OF CONNECTION
BLKG	BLOCKING	PR	PAIR
BLKHD	BULKHEAD	PSI	POUNDS PER SQUARE INCH
BOT	BOTTOM	PT	PLASTER TRAP
BPIP	BOILER PLANT INSTRUMENTATION PANEL	PVC	POLYVINYL CHLORIDE
BV	BALL VALVE		
		R	RISER
C	CONDUIT	RAD	RADIUS
C	CONDENSER WATER	RCP	REFLECTED CEILING PLAN
CD	CONDENSATE DRAIN	RCP	REINFORCED CONCRETE PIPE
CD	CONSTRUCTION DOCUMENTS	RD	ROOF DRAIN
CF	CUBIC FEET	REM	REMOVABLE
CI	CAST IRON	RS	REFRIGERANT SUCTION
CI	CURB INLET	RTU	ROOF TOP UNIT
CIP	CAST IRON PIPE		
CIRC	CIRCULATING	S	SANITARY SEWER
CLR	CLEAR	S	SPRINKLER LINE
CO	CLEAN OUT	SAN	SANITARY WASTE
COMB	COMBINATION	SCW	SOFT COLD WATER
CR	CORROSION RESISTANT	SD	STORM DRAIN
CS	COUNTERSINK	SE	STEAM EXHAUST VENT
CS	COMBINATION SEWER	SH	SHOWER
CSP	COMBINATION STANDPIPE	SHW	SOFT HOT WATER
CT	COOLING TOWER	SK	SINK
CTL	CONTROL	SM	SPRINKLER MAIN
CU	CONDENSING UNIT	SP	STATIC PRESSURE (H2O)
CW	COLD WATER	SP	STAND PIPE
		SPD	SURGE PROTECTION DEVICE
D	DRAIN	SPK	SPRINKLER
DBL	DOUBLE	SQ	SQUARE
DE	DEIONIZED WATER	SS	STAINLESS STEEL
DEPT	DEPARTMENT	SS	SERVICE SINK
DF	DRINKING FOUNTAIN	SST	SECONDARY STORM DRAINAGE
DFR	DIESEL FUEL RETURN	ST	STORM DRAINAGE
DFS	DIESEL FUEL SUPPLY	STOR	STORAGE
DFV	DIESEL FUEL VENT	SUSP	SUSPENDED
DISCH	DISCHARGE		
DSN	DOWNSPOUT NOZZLE	T	TEMPERED
DSP	DRY STANDPIPE	TEMP	TEMPERATURE
DW	DISHWASHER	THK	THICK(NESS)
		TMV	THERMOSTATIC MIXING VALVE
EA	EACH	TOIL	TOILET
EEW	EMERGENCY EYE WASH	TPV	TRAP PRIMER
EEWS	EMERGENCY EYE WASH SHOWER	TS	TEMPERATURE SENSOR
EFF	EFFICIENCY	TT	TEMPERATURE TRANSMITTER
ELEV	ELEVATOR		
EMER	EMERGENCY	UC	UNIT COOLER
ENT	ENTERING	UG	UNDERGROUND
EWC	ELECTRIC WATER COOLER	UR	URINAL
EXP	EXPOSED	UTIL	UTILITY
F	FAHRENHEIT	V	VENT
F	FIRELINE	V	VACUUM
F.V.	FIELD VERIFY	VA	VALVE
FAB	FABRICATE(D)	VBF	VENT BELOW FLOOR
FCO	FLOOR CLEAN OUT	VCP	VITRIFIED CLAY PIPE
FCU	FAN COIL UNIT	VOL	VOLUME
FD	FLOOR DRAIN	VP	VACUUM PUMP
FDC	FIRE DEPARTMENT CONNECTION	VTR	VENT THROUGH ROOF
FDN	FOUNDATION		
FDNDR	FOUNDATION DRAIN	W	WATER SERVICE
FF	FINISH FLOOR	W	WASTE (PLUG)
FH	FIRE HYDRANT	WC	WATER COLUMN
FHC	FIRE HOSE CABINET	WC	WATER CLOSET
FIX	FIXTURE	WCC	WATER COOLED CONDENSER
FLEX	FLEXIBLE	WCL	WATER CLOSET/LAVATORY COMBINATION
FM	FIRE MAIN	WCO	WALL CLEAN OUT
FM	FORCE MAIN	WF	WASH FOUNTAIN
FOF	FUEL OIL FILL	WFMD	WATER FLOW MEASURING DEVICE
FOR	FUEL OIL RETURN	WH	WALL HYDRANT
FOS	FUEL OIL SUPPLY	WH	WATER HEATER
FOV	FUEL OIL VENT	WHA	WATER HAMMER ARRESTOR
FPD	FIRE PUMP DISCHARGE	WPB	WHIRLPOOL BATH
FPM	FEET PER MINUTE	WSP	WET STAND PIPE
FS	FLOW SWITCH		
FS	FLOOR SINK	YH	YARD HYDRANT
FVC	FIRE VALVE CABINET		
		ZCB	ZONE CONTROL BOX
G	NATURAL GAS	ZCV	ZONE CONTROL VALVE
GA	GAUGE		
GAL	GALLON		
GCO	GRADE CLEAN OUT		
GPD	GALLONS PER DAY		
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
GV	GATE VALVE		
GV	GREASE VENT		
GVBF	GREASE VENT BELOW FLOOR		
GW	GREASE WASTE		
HB	HOSE BIB		
HGR	HANGER		
HID	HIGH INTENSITY DISCHARGE		
HP	HEAT PUMP		
HP	HIGH PRESSURE		
HR	HOUR		
HUM	HUMIDIFIER		
HVAC	HEATING VENTILATING AND AIR CONDITIONING		
HW	DOMESTIC HOT WATER		
HWC	DOMESTIC HOT WATER RECIRCULATING		
IAW	IN ACCORDANCE WITH		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IES	ILLUMINATING ENGINEERING SOCIETY		
INSUL	INSULATION		
IP	IRON PIPE		
IW	INDIRECT WASTE		
JAN	JANITOR		
LAV	LAVATORY		
LF	LINEAR FOOT		
LG	LENGTH (LONG)		
LIN	LINEAR		
LPG	LIQUIFIED PETROLEUM GAS		
LS	LAWN SPRINKLER		
LVG	LEAVING		
LWT	LEAVING WATER TEMPERATURE		
MAINT	MAINTENANCE		
MAN	MANUAL		
MATL	MATERIAL		
MAV	MANUAL AIR VENT		
MFRG	MANUFACTURING		
MH	MANHOLE		
MPG	MEDIUM PRESSURE GAS		
MTD	MOUNTED		
MTG	MOUNTING		
MV	MEDICAL VACUUM		

DOMESTIC FIXTURE SCHEDULE

NOTES:
1. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON THE OPEN SIDE.
2. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITURAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS
4.
5.

ID	DESCRIPTION	QTY	PIPE CONNECTION SIZE (IN)							SPECIFICATION
			WASTE			VENT	WATER		GAS	
			PRIMARY	AUX	INDIRECT		COLD	HOT		
WC-1	WATER CLOSET (WALL HUNG, ADA)	3	4"			2"	1"			AMERICAN STANDARD (AS) NO. 3351.101 "AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER TOILET"; SIPHON JET, WALL HUNG, ELONGATED BOWL, TOP SPUD. COMPLETE WITH 1.28 GPF FLUSH VALVE, MANUAL, SLOAN ROYAL NO. 111-1.28 GPF FLUSH VALVE, OLSONITE NO. 95SSCT SEAT, AND ZURN 1201 & 1202 SERIIES CARRIER. MOUNT AD ADA ACCESSIBLE HEIGHT.
L-1	LAVATORY (WALL HUNG, ADA)	1	1-1/2"			1-1/2"	1/2"	1/2"		REINSTALL WALL HUNG LAVATORY FROM DEMOLITION PLAN. COMPLETE WITH CHICAGO 3400-ABCP METER FAUCET WITH E2805AB 0.5 GPM NON-AERATING SPRAY AND VANDAL RESISTANT COVER PLATE, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", McGUIRE NO. PW2125 1-1/4" L.A. PATTERN P-TRAP WITH TRAP, TRAP ARM AND SUPPLY COVERS, CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY, AND ZURN NO. Z-1231-EZR-WL ADJUSTABLE CONCEALED ARM CARRIER W/ SLEEVE FOR WASTE. MOUNT IN ACCORDANCE WITH ADA REQUIREMENTS.
L-2	LAVATORY (WALL HUNG, ADA)	1	1-1/2"			1-1/2"	1/2"	1/2"		KOHLER NO. L-2805 "HUDSON WALL HUNG LAVATORY" 19" X 17", WALL HUNG. CHICAGO NO. 3400-ABCP METER FAUCET WITH E2805AB 0.5 GPM NON-AERATING SPRAY AND VANDAL RESISTANT COVER PLATE, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", McGUIRE NO. PW2125 1-1/4" L.A. PATTERN P-TRAP WITH TRAP, TRAP ARM AND SUPPLY COVERS, CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY, AND ZURN NO. Z-1231-EZR-WL ADJUSTABLE CONCEALED ARM CARRIER W/ SLEEVE FOR WASTE. MOUNT IN ACCORDANCE WITH ADA REQUIREMENTS.
S-1	SINGLE BOWL SINK (ADA)	1	1-1/2"			1-1/2"	1/2"	1/2"		ELKAY NO. LRAD221955 "LUSTERTONE SINGLE BOWL SINK", SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, 22" X 19" X 5-1/2" DEEP. COMPLETE WITH CHICAGO NO. 786-E35VPCABCP DECK MOUNTED, BLADE HANDLES, GOOSENECK FAUCET E35VPAB 1.5 GPM SOFTFLO AERATOR AND VANDAL RESISTANT COVER PLATE, McGUIRE NO. 152 1-1/2" OUTLET "WIDE TOP SINK STRAINER", McGUIRE NO. PW2150NC0 1-1/2" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLY COVERS, AND CHICAGO NO. 1017-ABCP LOOSE KEY STOPS WITH RIGID SUPPLIES. MOUNT IN ACCORDANCE WITH ADA REQUIREMENTS.
EWC-1	ELECTRIC WATER COOLER (DUAL HEIGHT, BOTTLE FILLER, ADA)	2	1-1/4"	1 1/4"		2"	1/2"			ELKAY NO. LZSTL8WSSP "ezH2O", DUAL HEIGHT WITH BOTTLE FILLING STATION, SURFACE WALL MOUNTED, STAINLESS-STEEL WITH STAINLESS-STEEL MOUNTING BRACKET, BARRIER FREE, FILTERED, 8 GPH OF 50° F. WATER WITH 80° F. INLET WATER AT 90° F. AMBIENT, 1/5 HP, 115 VOLT, 1 PHASE. COMPLETE WITH CHICAGO NO. 45LKABCP ANGLE STOP WITH 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCESSIBLE HEIGHT.
EWC-2	ELECTRIC WATER COOLER (OUTDOOR, DUAL HEIGHT, BOTTLE FILLER, ADA)	2	1-1/4"	1 1/4"		2"	1/2"			ELKAY NO. VRCTL8WSK "ezH2O", DUAL HEIGHT WITH BOTTLE FILLING STATION, SURFACE MOUNTED, STAINLESS-STEEL WITH STAINLESS-STEEL MOUNTING BRACKET, BARRIER FREE, 8 GPH OF 50° F. WATER WITH 80° F. INLET WATER AT 90° F. AMBIENT, 1/5 HP, 115 VOLT, 1 PHASE. COMPLETE WITH CHICAGO NO. 45LKABCP ANGLE STOP WITH 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCESSIBLE HEIGHT.

SHEET INDEX

MATERIALS

1 SANITARY SOIL WASTE AND VENT SYSTEMS ABOVE AND BELOW GRADE: PIPING WITHIN THE BUILDING ITSELF AND OUTSIDE WITHIN FIVE FEET (5') OF THE FOUNDATION, SHALL BE NO-HUB CAST IRON SERVICE WEIGHT PIPE AND FITTINGS, ASPHALTUM COATED, FREE FROM DEFECTS, AND SHALL COMPLY WITH C.I.S.P.I. STANDARD 301 OR ASTM A-888. FITTINGS SHALL BE MADE UP WITH "HUBSKY" SD 4000 SERIES OR "CLAMP ALL" 125 SERIES STAINLESS-STEEL TYPE 304 NO-HUB COUPLINGS AND SHALL CONFORM TO ASTM C1540 & ASTM C564 EXCEPT ALL ABOVE GROUND VENT PIPE FITTINGS MAY BE INSTALLED WITH "ANACO" OR "TYLER" STAINLESS-STEEL TWO BAND COUPLINGS CONFRMING TO C.I.S.P.I. STANDARD 310.

2 WATER PIPING WITHIN THE BUILDING AND ABOVE GRADE SHALL BE TYPE "L" ASTM B88, HARD DRAWN COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS ANSI B16.22 WITH 95-5 SILVER SOLDIER.

3 INSULATION: ALL HOT WATER PIPING SHALL BE INSULATED WITH "PPG" INDUSTRIES, CERTAIN-TEED SAINT GOBAIN SNAP-ON OR JOHNS-MANVILLE MICRO-LOC AIR. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH "MICOA" IMCOLOCK CLOSED-CELL PIPE INSULATION.

4 CLEANOUTS: SHALL BE MANUFACTURED BY J.R. SMITH, ZURN OR JOSAM AS FOLLOWS:
A.FINISHED ROOM FLOORS: J.R. SMITH NO. 4163 W/ N.B. TOP AND GASKETED WATERTIGHT COVER.
B.WALLS: J.R. SMITH 4532 W/ BRONZE PLUG AND CHROME PLATED COVER.
C.YARD AND PARKING LOT: J.R. SMITH NO. 4253 CAST IRON SURFACE LEVEL CLEANOUT.

5 VALVES: GATE VALVES 1-1/2" AND SMALLER SHALL BE NIBCO NO. T-113-LF, GATE VALVES 2" TO 3" SHALL BE NIBCO NO. F-607-RW OS&Y, BALL VALVES 2" AND SMALLER SHALL BE NIBCO NO. T-685-66-LF.

6 CORROSION PROTECTION:
A.ALL BELOW GROUND METALLIC FITTINGS, VALVES, FLANGES, BOLTS, SHALL BE PROTECTED AGAINST CORROSION AS FOLLOWS:
1.ALL METALLIC COMPONENTS AS DESCRIBED ABOVE SHALL RECIEVE A HEAVY COATINGOF "HENRY'S" OIL BASE ROOF MASTIC.
2.AFTER MASTIC COATING IS COMPLETED AND INSPECTED, WRAP ENTIRE METALLIC COMPONENT WITH A MINIMUM OF 10 MIL. POLYETHELYLENE WRAP OVERLAPPED 50% OF THE CIRCUMFERENCE AND EXTENDED BEYOND ENDS OF COMPONENT AS REQUIRED FOR POLYETHYLENE TO BE SECURED TO PIPING. THE OVERLAP SEAM SHALL BE LOCATED TO AVOID BACKFILL MATERIAL FROM ENTERING THE ENCAPSULATED AREA. THE ENDS AND SEAM OF THE POLYETHYLENE MATERIAL SHALL BE SECURED TO THE PIPING AND SEALED WITH 3M SCOTCH/ WRAP NO. 50, 10 MIL., 2" WIDE, PRINTED, PIPE WRAP SEALING TAPE.
3.THE MASTIC COATING SHALL BE INSPECTED AND APPROVED PRIOR TO THE FINISH APPLICATION OF THE POLYETHY LENE MATERIAL, WHICH SHALL ALSO BE INSPECTED.

7 BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE STERILIZED BY SLOWLY FILLING WITH WATER TO WHICH A STERILIZING AGENT HAS BEEN APPLIED, AT A REATE GIVING 50 PPM OF CHLORINE. AS DETERMINED BY RESIDUAL CHLORINE TEST AT EXTREMETIES OF THE LINE. AFTER LINES HAVE BEEN FILLED FOR A PERIOD OF THREE 6 HOURS, TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THA 50 PPM. IF LESS THAN 50 PPM IS INDICATED, DRAIN OR FLUSH OUT THE LINE AND REPEAT STERILIZATION TREATMENT UNTIL TESTS INDICATE AT LEAST 50 PPM OF RESIDUAL CHLORINE AFTER THREE (3) HOURS. THE LINES SHALL BE FLUSHED UNTIL ALL TRACES OF CHEMICAL HAVE BEEN REMOVED.

GENERAL PLUMBING NOTES

1 BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

2 ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

3 ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDEAIR INTAKES.

4 CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.

5 ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.

6 ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT ANDSTRUCTURAL FRAMING.

7 ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA PLUMBING CODE 2019.

8 INSULATION (SEE SPECIFICATION FOR TYPE REQUIRED) AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH 2013 C.B.C. SECTION 720.3.

9 ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT, STRUCTURAL ENGINEER AND DSA. 2

10 M.E.P. COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1.ALL PERMANENT EQUIPMENT AND COMPONENTS.
2.TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3.TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR AHS A CENTER MASS LOCATED 4 FEET OR MOVE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPNENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVER BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REVERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENTS IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

1.COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2.COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMONENTS SHAL BE THE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE THE DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

11 PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3, AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP [ ] MD [ ] PP [ ] E [ ] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFICNOTES AND DETAILS.
MP [ ] MD [ ] PP [X] E [ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0043-13.

PLUMBING SYMBOLS

SCHEMATIC	3D	DESCRIPTION
CW	CW	DOMESTIC COLD WATER
		DOMESTIC COLD WATER (LINETYPE)
HW	HW	DOMESTIC HOT WATER
		DOMESTIC HOT WATER (LINETYPE)
HWC	HWC	DOMESTIC HOT WATER RECIRCULATING
		DOMESTIC HOT WATER RECIRC (LINETYPE)
		SANITARY WASTE ABOVE FLOOR
		SANITARY WASTE BELOW FLOOR
		SANITARY VENT
CO	CO	CLEAN OUT
WCO	WCO	WALL CLEAN OUT
FCO	FCO	FLOOR CLEAN OUT
GCO	GCO	GRADE CLEAN OUT (DOUBLE CLEAN OUT)
		FLOOR DRAIN / FLOOR SINK
		ROOF DRAIN / OVERFLOW DRAIN
		DOWNSPOUT NOZZLE
		WALL HYDRANT
		HOSE BIBB
X		WATER HAMMER ARRESTER
XX		RISER TAG
8" ORD- 1,500 SF		ROOF DRAIN TAG
3" FS-		PLUMBING FIXTURE TAG

PIPING ANNOTATIONS

SCHEMATIC	3D	DESCRIPTION
		EXISTING TO REMAIN - (E) or EXIST
		ITEM TO BE DEMOLISHED - (D) or DEMO
18" CWS	18" CWS	PIPE SIZE TAG (DIAMETER WITH SYSTEM NAME)
		ABOVE GROUND PIPING
		BELOW GROUND PIPING
1/8" / 12" SLOPE	1/8" / 12" SLOPE	PIPE SLOPE
INVERT: -9'3" - 1"	INVERT: -9'3" - 8"	PIPE INVERT ELEVATION
DDC-xx		MECHANICAL EQUIPMENT TAG
		MECHANICAL EQUIPMENT CLEARANCE

PIPING VALVES AND FITTINGS

SCHEMATIC	3D	DESCRIPTION
		PIPE DROP
		PIPE RISE
		PIPE TEE DOWN
		PIPE TEE UP
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		PIPE CAP
		PIPE ALIGNMENT GUIDE
		PIPE ANCHOR
		FLOW DIRECTION
		EXPANSION JOINT
		FLEXIBLE CONNECTION
		UNION
		DIRECTION OF PIPE PITCH
		AQUASTAT
		EXPANSION LOOP
		BALANCING VALVE
		BALANCING VALVE W/ METERING POINTS
		BALL VALVE
		BUTTERFLY VALVE
		CHECK VALVE
		STEAM TRAP
		GATE VALVE
		CIRCUIT SETTER
		MANUAL AIR VENT
		AUTOMATIC AIR VENT
		PLUG VALVE
		PRESSURE GAUGE
		SOLENOID VALVE
		ANGLE VALVE
		AUTOMATIC CONTROL VALVE 2-WAY
		AUTOMATIC CONTROL VALVE 3-WAY
		AUTOMATIC FLOW CONTROL VALVE
		STRAINER
		PRESSURE AND TEMPERATURE TEST PORT
		THERMOMETER
		PRESSURE REDUCING VALVE (WATER SYSTEMS) PRESSURE REGULATING VALVE (GAS SYSTEMS)
		RELIEF VALVE
		FLOW MEASURING DEVICE
		BACKFLOW PREVENTER
		UNION

GENERAL SYMBOLS

	POINT OF DISCONNECT - DEMOLITION REMOVED FROM EXISTING
	POINT OF CONNECTION - NEW CONNECTS TO EXISTING
	AREA NOT IN CONTRACT

* NOTE *

ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF DRAWINGS.

DSA APPROVAL STAMP

DLR Group
235 Montgomery Street, Suite 350 San Francisco, CA 94104

DVC

DSA APP: 01-119997
DSA FILE: 07-C1

DVC - Print Shop, Student Success, & Health Services Renovation

CCCCD - Diablo Valley College
321 GOLF CLUB ROAD
PLEASANT HILL, CA 94523

ADDENDUM 2

05/02/2022
Revisions
2 05/02/2022 Addendum 2

DLR GROUP PROJECT NUMBER:
75-21809-00

PLUMBING GENERAL NOTES, SCHEDULES, SYMBOLS & ABBREVIATIONS

P0.1

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5/2/2022 8:21:34 AM

SECTION 00010

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DIVISION 09 - FINISHES

END OF SECTION 00010

FIRE ALARM CUTSHEETS AND DSA 103

1. FIRE ALARM CUTSHEETS

Gamewell FCI FIRE CONTROL INSTRUMENTS
by Honeywell

HPF24S6 and HPF24S8

Description

The HPF24S6 and HPF24S8 are compact, cost-effective, 6 amp. or 8 amp. remote power supplies with integral battery chargers. These adaptable power supplies may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP) or the power supplies may stand-alone. Primary applications include the following:

- Notification Appliance Circuits (NAC) expansion to support ADA requirements and NAC synchronization
- Auxiliary power to support 24 volt system accessories

These power supplies provide regulated and filtered 24 VDC power to four (4), notification appliance circuits, configured as either four (4), Class B (Style Y) or Class A (Style A, with ZNAC-4 Option Module). Alternately, the four outputs may be configured as follows:

- all non-resettable
- all resettable
- two non-resettable
- two resettable

The power supplies also contain a battery charger with a charging capacity of up to 18 Amp Hour batteries.

The HPF24S6 and HPF24S8 power supplies comply with the following Agency standards:

- NFPA 72 National Fire Alarm Code,
- UL Standard 864, 9th Edition for control units for Fire Alarm Systems (NAC expander mode).
- UL 1481 Power Supplies for Fire Alarm Systems (stand-alone mode).

UL® is a registered trademark for Underwriter's Laboratories Inc.

Power Supplies with Battery Chargers

HFP24S6/8 dh1061.jpg

Features

- UL® Listed NAC synchronization using System Sensor, Cooper-Wheelock or Gentex (Commander Series) appliances
- Uses a cascade of up to ten (10), power supplies or (four (4), power supplies with Gentex) with strobe timing maintained
- Operates as a sync follower or a sync generator (default)
- Contains two (2), fully -isolated input/control circuits energized from FACP notification appliance circuit (NAC expander mode) or jumpered permanently on (stand-alone mode)
- Configured to internally house an addressable SLC control module for alarm activation
- Supports four (4), Class B (Style Y) or four (4), Class A (Style Z) (with ZNAC-4 Module) notification appliance circuits
- Provides 6.0A or 8.0A (depending on model) full load output (3.0A maximum per circuit) in NAC expander mode (UL Standard 864)
- Uses 4.0A or 6.0A continuous output in the stand-alone mode (UL Standard 1481)

SIGNALING UL LISTED S6677 7315-1637:0102 S6677

ISO 9001 CERTIFIED

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

www.gamewell-fci.com

CS-60062 Rev. B page 1 of 2

Features (Continued)

- In stand-alone mode, output power circuits are configured as resettable, (using the FACP reset switch), non-resettable, or a combination of both
- Fully regulated and filtered power output (optimal for powering four-wire smoke detectors, annunciators and other system peripherals requiring regulated/filtered power)
- Class 2 Power-Limited technology complies with UL Class 2 Power-Limited requirements
- Includes a normally-closed trouble relay
- Provides fully, supervised power supply, battery and notification appliance circuits
- Selectable earth fault detection
- AC trouble report selectable for immediate or up to an 8 hour delay
- Compatible with any UL Standard 864 fire alarm control panel which uses an industry standard, reverse polarity, and notification circuit (including unfiltered and unregulated bell power)
- Requires input trigger voltage of 9.0 -32 VDC
- Built with a self-contained compact, lockable cabinet 15" H x 14.5" W x 2.75" D (38.1 H x 36.8 W x 7.0 D cm)
- Includes an integral battery charger capable of charging up to 18 AH batteries. The cabinet has the capacity of housing 7.0 AH batteries
- Battery charger may be disabled via a DIP (Dual In-Line Package) switch for applications requiring larger batteries
- Offers fixed, clamp-type terminal blocks that accommodate up to 12 AWG (3.1 mm^2) wire

Specifications

Primary (AC) Power

- HPF24S6: 120 VAC 60 Hz, 3.2A maximum
- HPF24S8: 120 VAC 60 Hz, 3.2A maximum
- Wire size: minimum 14 AWG (2.0 mm^2) with 600V insulation

Control Input Circuit

- Input Voltage: 9.0 to 32 VDC
- Input Current: 2.0 mA (16 - 32 V) per input 1.0 mA (9 - 16 V)

Trouble Contact Rating

- 5.0A at 24 VDC

Auxiliary Power Output

- Specific Application Power - 500 mA maximum

Output Circuits

- +24 VDC filtered, regulated
- 3.0A maximum for any one circuit

Specifications (Continued)

Output Circuits (Continued)

- 4.0A maximum total continuous current for all outputs (Stand-alone mode) for the HPF24S6 and 6A for the HPF24S8
- 6A or 8A, depending on the model, maximum total short-term current for all outputs (NAC Expander mode).

Secondary Power (Battery) Charging Circuit

- Supports lead-acid batteries only
- Float Charge Voltage: 27.6 VDC
- Maximum Charge Current: 1.5A
- Maximum Battery Capacity: 18 AH

Ordering Information

Part Number	Description
HPF24S6	Remote charger 6A power supply (120 VAC). Includes the main printed circuit board, transformers, red enclosure, and installation instructions
HPF24S8	Remote charger 8A power supply (120 VAC). Includes the main printed circuit board, transformers, red enclosure, and installation instructions
FCPS-24S6RB	Replacement mother board
ZNAC-4 -	Class A (Style Z) NAC option module
BAT-1270 -	Battery, 12 volt, 7.0 AH (two required)

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118
www.gamewell-fci.com

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Page 1 of 1

LISTING No.	7315-1637:0102
CATEGORY:	7315 -- POWER UNITS
LISTEE:	Honeywell International Inc.One Fire-Lite Place, Northford, CT 06472 Contact: Lisa Brant (203) 484-6105 Fax (203) 484-7309 Email: lisa.brant@honeywell.com
DESIGN:	Models HPF24S6, HPF24S8, HPFF8, HPFF8E, HPFF8CM, HPFF8CME, HPFF12, HPFF12E, *HPFF12CM and *HPFF12CME power limited power supply/battery chargers used for supervision and expanded power driving capability of up to four Notification Appliance Circuits (FACP Fire Circuits, Signaling Devices) or resettable/non resettable outputs. Model ZNAC-4 Class A converter. Refer to listee's data sheet for additional detailed product description and operational considerations.
RATING:	120 VAC, 24 VDC
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, product designation, electrical rating and UL label.
APPROVAL:	Listed as power supply/battery chargers for use with separately listed compatible fire alarm control units.
XLF:	7315-0075:0206

*Rev. 10-20-10 bh

This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2021** *Listing Expires* **June 30, 2022**

Authorized By: ***DAVID CASTILLO,*** *M.E., F.P.E.*
Fire Engineering Division

SYSTEM SENSOR

Indoor Selectable-Output Speaker Strobes and Dual Voltage Evacuation Speakers for Wall Applications

System Sensor L-Series selectable output speaker strobes and dual-voltage evacuation speakers can reduce ground faults and enable faster installation with lower current draw and modern aesthetics.

Features

- Plug-in design and protective cover reduce ground faults
- Universal mounting plate with an onboard shorting spring tests wiring continuity before installation
- No extension ring required
- Field selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, 185
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Rotary switch simplifies field selection of speaker voltage (25 and 70.7 Vrms) and power settings (¼, ½, 1 and 2 watts)
- Seakers offer high fidelity and high volume sound output
- Compatible with System Sensor synchronization protocol
- Electrical compatibility with existing SpectrAlert and SpectrAlert Advance products
- Tamper-resistant construction
- Updated modern aesthetics

Agency Listings

SIGNALING UL LISTED S4048

FM APPROVED
FM approved except for ALERT models 3057493

7320-1653:0505

The System Sensor L-Series of speakers and speaker strobes reduce costly ground faults using a plug-in design and universal mounting plate that allow the installer to pre-wire mounting plates, dress the wires, and confirm wiring continuity before plugging in the speakers. In addition, a protective plastic cover prevents nicked wires by covering exposed speaker components.

These devices also enable faster installations by providing instant feedback to ensure that wiring is properly connected, rotary switches to select voltage and power settings, and 7 field-selectable candela settings for wall speaker strobes.

The low total harmonic distortion of the speaker offers high fidelity sound output while still offering high volume sound output for use in high ambient noise applications.

System Sensor L-Series makes installation easy

- Attach a universal mounting plate to a 4 × 4 × 21⁄8 inch back box. Flush-mount applications do not require an extension ring.
- Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by inserting the product tabs into the mounting plate grooves. Hinge the device into position to lock the product pins into the mounting plate terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

L-Series Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

L-Series speaker and speaker strobes shall mount to a 4 × 4 × 21⁄8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, L-Series speaker strobes, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32°F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Wall-mount speaker strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, 185.

Speaker

The speaker shall be a System Sensor L-Series model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be listed to UL 1480 and shall be approved for fire protective service. The speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F. The speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe combination

The speaker strobe shall be a System Sensor L-Series model _____ listed to UL1480 and UL 1971 and be approved for fire protective signaling systems. The speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4,000 Hz. The speaker shall have power taps that are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz. The module shall mount to a 411⁄16 × 411⁄16 × 21⁄8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

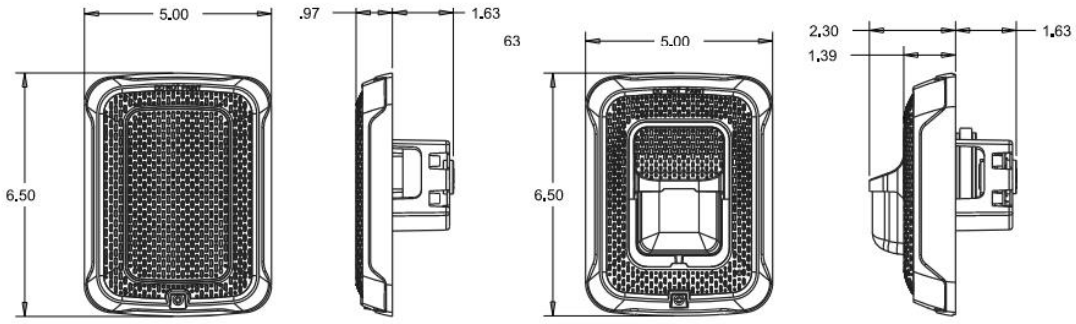
Physical Specifications			
Operating Temperature	32°F to 120°F (0°C to 49°C)		
Humidity Range	10 to 93% non-condensing		
Dimensions, Wall-Mount	**Length**	**Width**	**Depth**
SPL Speaker	6.5 in, 165 mm	5 in, 127 mm	.97 in,23 mm
With Surface Mount Back Box	6.6 in, 168 mm	5.1 in, 130 mm	3.2 in, 82 mm
SPSL Speaker/Strobe (including lens and speaker)	6.5 in, 165 mm	5.0 in, 127 mm	2.3 in, 58 mm
With Surface Mount Back Box	6.6 in, 168 mm	5.1 in, 130 mm	4.5 in, 116 mm
Electrical/Operating Specifications			
Nominal Voltage (speakers)	25 Volts or 70.7 Volts(nominal)		
Maximum Supervisory Voltage (speakers)	50 VDC		
Strobe Flash Rate	1 flash per second		
Nominal Voltage (strobes)	Regulated 12 VDC or regulated 24 DC/FWR[1,2]		
Operating Voltage Range (includes fire alarm panels with built in sync)	8 to 17.5 V (12 V nominal) or 16 to 33V (24 V nominal)		
Operating Voltage with MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 to 33V (24 V nominal)		
Frequency Range	400 to 4000 Hz		
Power	¼, ½, 1, 2 watts		

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. Strobe products will operate at 12 V nominal only for 15 and 30 cd

UL Current Draw Data

UL Max Strobe Current Draw (mA RMS)				
	8 to 17.5 Volts	16 to 33 Volts		
Candela	DC	DC	FWR	
15	88	43	60	
30	143	63	83	
75	N/A	107	136	
95	N/A	121	155	
110	N/A	148	179	
135	N/A	172	209	
185	N/A	222	257	
Sound Output Speaker Strobe				
	¼ W	½ W	1 W	2 W
UL Reverberant (dBA @10 ft)	77	80	83	86
UL Anechoic (dBA @10 ft)	77	80	83	86
Sound Output Speaker				
	¼ W	½ W	1 W	2 W
UL Reverberant (dBA @10 ft)	79	82	85	88
UL Anechoic (dBA @10 ft)	79	82	85	88

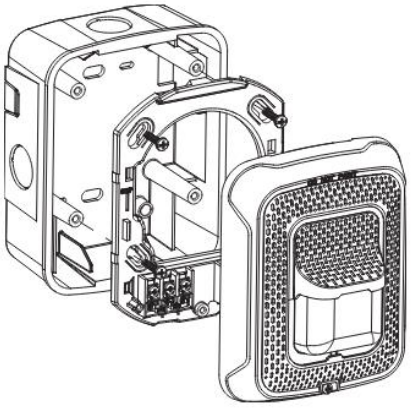
L-Series Dimensions



Wall-Mount Speaker

Wall-Mount Speaker Strobe

Surface Mounting



Wall-Mount Speaker Strobe with SBBSPL Surface Mount Back Box

L-Series Ordering Information

Wall Mount		
White	**Red**	**Description**
SPWL	SPRL	Speaker only
SPSWL	SPSRL	Speaker Strobe
SPSWL-P	SPSRL-P	Plain Speaker Strobe
SPSWL-ALERT	—	Speaker Strobe, Amber Lens
SPSWL-CLR-ALERT	—	Speaker Strobe Clear Lens
—	SPSRL-SP	Speaker Strobe, Fuego
Accessories		
White	**Red**	**Description**
RFPW	RFP	7 in × 9.5 in Retrofit Plate
SBBSPWL	SBBSPRL	Surface Mount Back Box for Speakers and Speaker Strobes
TR-2W	TR-2	Wall Mount Trim Ring

Notes:
All -P models have a plain housing (no "FIRE" marking on the cover)

SYSTEM SENSOR

3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495
www.systemsensor.com

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No. 7320-1653:0505 Page 1 of 2

CATEGORY: 7320 -- SPEAKERS

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Lisa Brant (203) 484-6105 Fax (203) 484-7309
Email: lisa.brant@honeywell.com

DESIGN: System Sensor Indoor Models:
SPRL and SPWL Wall Speakers;
SPCRL and SPCWL Ceiling Speakers;
SPSRL, SPSWL, SPSRL-P, SPSRL-SP, SPSWL-P, SPSWL-ALERT and SPSWL-CLR-ALERT Wall Speaker Stobes;
SPSCRL, SPSCWL, SPSCWL-P, SPSCWL-SP and SPSCWL-CLR-ALERT Ceiling Speaker Strobes.

Wall Bezel Parts:
BZSPR-P, BZSPR-AL, BZSPR-EV, BZSPR-AG, BZSPR-PG, BZSPR-F and BZSPR-SP, BZSPW-P, BZSPW-AL, BZSPW-EV, BZSPW-AG, BZSPW-PG, BZSPW-F and BZSPW-SP,

Ceiling Bezel Parts:
BZSPRC-P, BZSPRC-AL, BZSPRC-EV, BZSPRC-AG, BZSPRC-PG, BZSPRC-F and BZSPRC-SP,
BZSPWC-P, BZSPWC-AL, BZSPWC-EV, BZSPWC-AG, BZSPWC-PG, BZSPWC-F and BZSPWC-SP,

WallTrim Rings for Speaker Strobes:
TR2 and TR2W

CeilingTrim Rings for Speaker Strobes:
TRC2 and TRC2W.

Wall Surface Mounted Back Boxes:
SBBSPRL and SBBSPWL,

Ceiling Surface Mounted Back Boxes:
SBBCRL and SBBCWL

Refer to listee's data sheet for detailed product description and operational considerations.

02-27-17 gt

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Date Issued: **July 01, 2021** *Listing Expires* **June 30, 2022**

Authorized By: ***DAVID CASTILLO,*** *M.E., F.P.E.*
Fire Engineering Division

Listing No. 7320-1653:0505
Page 2 of 2

RATING:	25 or 70.7 VAC, 1/4, 1/2, 1, 2 Watt outputs. Regulated 12 VDC and 24 VDC/FWR is for 2-wire strobe portion.
INSTALLATION:	In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, model number, electrical rating, and UL label.
APPROVAL:	Listed as speakers and speaker-strobes when used with separately listed compatible fire alarm control units. Suitable for indoor use, dry and damp environments. *Listed with software code, S05-0048-001 for low temperature compensation. Authority having jurisdiction should be consulted prior to installation. Refer to listee's Installation Instruction Manual for details.

02-27-17 gt

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Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*
Fire Engineering Division

WEST PENN WIRE
AV, SECURITY & NETWORKING SOLUTIONS
Since 1971

Product Guide

Fire Alarm Cables

Initiating Device , SLC Lines, and NAC Cables

www.westpennwire.com

WEST PENN WIRE
AV, SECURITY & NETWORKING SOLUTIONS

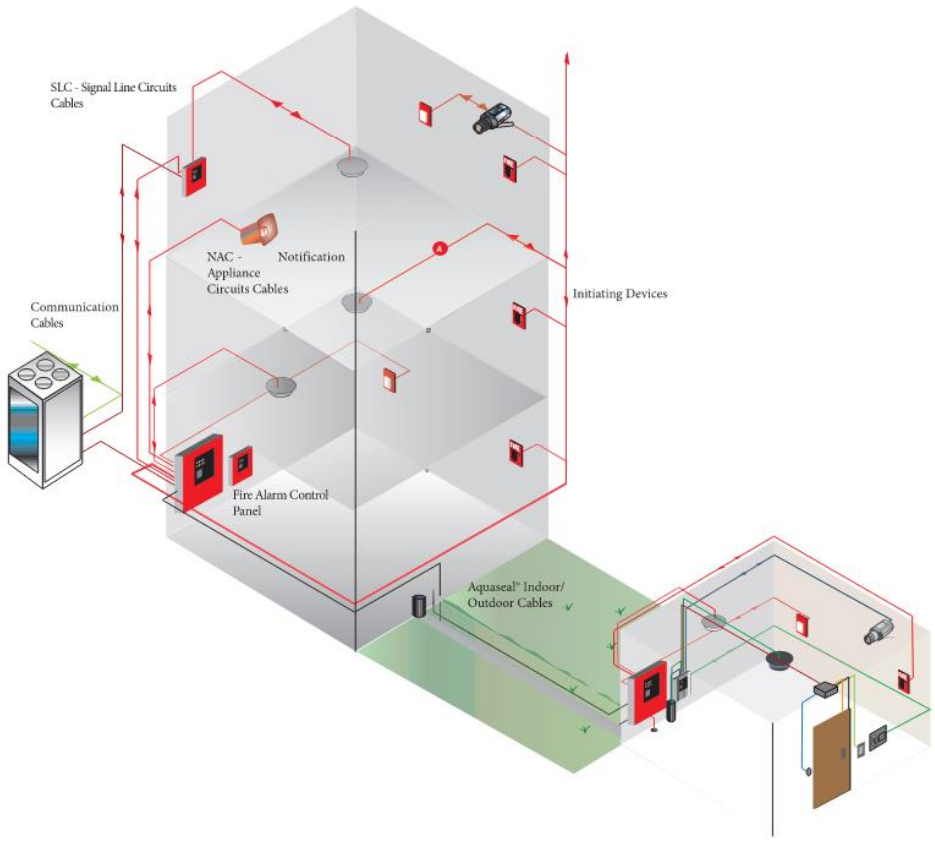
STANDARDS

Fire Alarm Systems

A fire alarm system is number of devices working together to detect and warn people through visual and audio appliances when smoke, fire, carbon monoxide or other emergencies are present. These alarms may be activated automatically from smoke detectors, and heat detectors or may also be activated via manual fire alarm activation devices such as manual call points or pull stations. Alarms can be either motorized bells or wall mountable sounders or horns.

Fire Alarm System Design

After the fire protection goals are established – usually by referencing the minimum levels of protection mandated by the appropriate model building code, insurance agencies, and other authorities – the fire alarm designer undertakes to detail specific components, arrangements and interfaces necessary to accomplish these goals. Equipment specifically manufactured for these purposes is selected and standardized installation methods are anticipated during the design. In the United States, NFPA 72, The National Fire Alarm Code is an established and widely used installation standard. In Canada, the ULC is the standard for the fire system.



www.westpennwire.com

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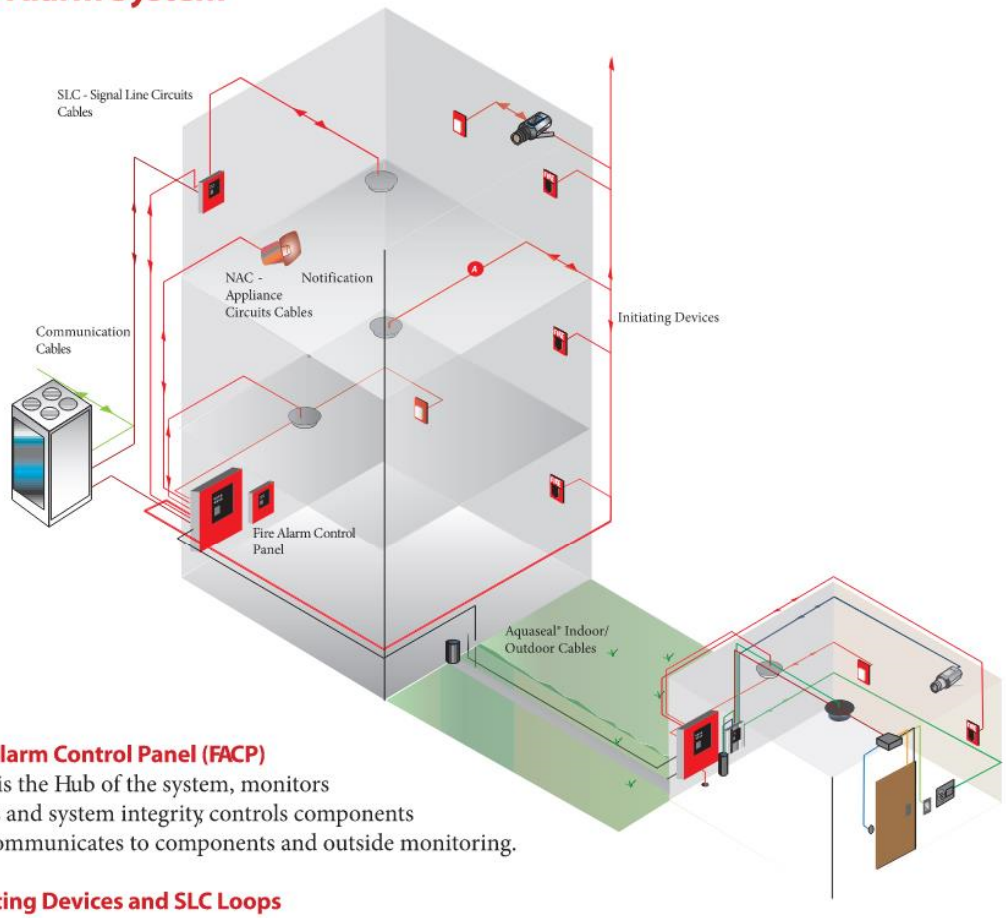
WEST PENN WIRE
AV, SECURITY & NETWORKING SOLUTIONS

Fire Alarm System



Fire Alarm Control Panel (FACP)

FACP is the Hub of the system, monitors inputs and system integrity, controls components and communicates to components and outside monitoring.

Initiating Devices and SLC Loops

Initiating devices consist of Pull Stations, Call points, automatic heat, smoke flame detectors and other devices that initiate a communication back to the FACP

SLC - Signal Line Circuits are initiating devices in an Addressable Fire Alarm system.

Notification Applicance NAC Devices

Notification devices notifiy in-building occupants about a problem. This is done by audible, visible, tactile, and textual devices.

Fire Alarm Systems

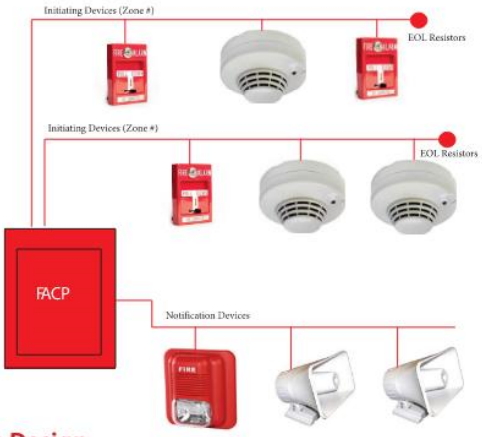
Fire Alarm systems can be put into three system designs. Conventional (Analog), Addressable (Digital) and Multiplex systems (Analog/Addressable)

Conventional Systems (Analog)

Conventional Fire Alarm Systems, in their various forms, have been around for many of years and have changed little in that time in terms of technology although design and reliability have impoved significantly.However, Conventional systems are a well proven technology protecting many hundreds of thousands of properties worldwide. A Conventional Fire Alarm System is often the natural choice for smaller systems or where budget constraints exist.

In a Conventional Fire Alarm System the "Intelligence" of the system resides solely within the Fire Alarm Control Panel.The panel receives a trigger signal from a Conventional Detector or Initiating DeviceCircuit (Smoke, heat, flame detectors) which in turn signals the condition to the Notification (Indicating)Device Circuit such as alarm sounders, horns, strobes and other remote signalling equipment.

Conventional detectors are normally connected to the Fire Control Panel via dedicated circuits, each circuit protecting a designated "Zone" or area of the building.The system has different modes:Normal,Alarm, Trouble, and others, depending on the Fire Alarm Manufacturer.



Conventional Fire Alarm Design

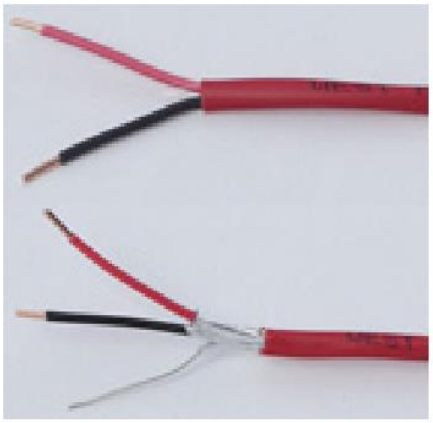
CThe designer must be sure that the last device on the circuit has sufficient voltage to operate the device within its rated voltage.When calculating the voltage available to the last device, it is necessary to ocon-sider the voltage drop due to the resistance of the wire.The larger the wire, the less the voltage drop.Generally, for purposes of determining the wire size necessary for the system, it is best to consider all ofthe devices as "lumped" on the end of the supply circuit, this simulates the worst case.

Typical wire size resistance: Loop Resistance
18 AWG solid: Approximately 6.5ohms/1000ft. 13ohms/1000ft.
16 AWG solid: Approximately 4.1ohms/1000ft. 8.2ohms/1000ft.
14 AWG solid: Approximately 2.6ohms/1000ft. 5.2ohms/1000ft.
12 AWG solid: Approximately 1.8ohms/1000ft. 3.6ohms/1000ft.

Power Limited and Non-Power Limited Systems

Conventional FA Cables are designed based upon the AWG of the Cable. Conventional systems can be broken into two categories: Power Limited and Non-Power Limited. Power Limited is the dominant designed system. **Power Limited**

1.Type FPL- FPL power-limited fire alarm cable is listed by the NEC as being suitable for general purpose fire alarm use.This listing excludes installation in riser, ducts, plenums and other space used for environmental air unless the cable is installed in conduit.All FPL cables are listed as being resistant to the spread of fire and must pass both UL test 1424 and the vertical flame testUL 1581.



2.Type FPLR- FPLR power-limited fire alarm riser cable is listed as being suitable for use in a vertical run in a shaft or from floor to floor.All FPLR cables are listed as having fire-resistant characteristics capable of preventing fire from traveling from floor to floor.Riser cables must pass both UL test 1424 and the Vertical riser test UL 1666.

3.Type FPLP- FPLP power-limited fire alarm cable is listed by the NEC as being suitable for usein ducts, plenums and other space used for environmental air.All FPLP cable are listed as having adequate fire resistant and low-smokeproducing characteristics and must pass bothUL test 1424 and UL Stiener tunnel test 910. (NFPA262)

- No Voltage Rating Markings on PLFA Cables
- CL3 and CM rated cables, which have a voltage rating of 300V are permitted to be used as PLFA cables.
- Power-limited is inherently limited by the power supply
- Transformer
- Other Power Supply Devices

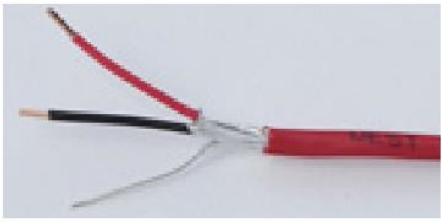
Non-Power Limited

1.Type NPLF- NPLF Non power-limited fire alarm cable is listed by the NEC as being suitable for general pur pose fire alarm use.This listing excludes installation in riser, ducts, plenums and other space used for environmental air unless the cable is installed in conduit.All NFPL cables are listed as being resistant to the spread of fire and must pass both UL test 1424 and the verticalflame test UL 1581.

2.Type NPLFP- NPLFP Non power-limited fire alarm cable is listed by the NEC as being suitable for use in ducts, plenums and other space used for environmental air.All NPLFP cable are listed as having adequate fire resistant and low-smoke producing characteristics and must pass bothUL test 1424 and UL Stiener tunnel test 910. (NFPA262)

- Power source of NPLFA circuits output voltage shall not exceed 600 volts.Nominal
- Marking on NPLF cables are not addressed as 150VFor use in 150V or less on NPLF circuits(out of tray or conduit)
- Class 1 cables can be installed and used as NPLFA, but must be placed in a tray or conduit.• Overcurrent devices shall be located at the point where the device to be protected receives its supply.

Conventional FA Cables



Conductor:

- Shall not be smaller than a 26AWG
- Single Conductor no smaller than 16AWG
- Solid or Stranded Conductor. Bare Copper for low DCR

Inuslation:

- PVC or Polypropylene Insulation FPLR
- Fire/Flame Retardant PVC for Plenum Rated FPLP -- West Penn Wire "B" Series

- Conductors are either Cabled or Twisted pair. West Penn Wire 2 Conductor cables are twisted. Shield:
- Dependent on the system requirements and environmental conditions
  - Unshielded or Shielded
- Shield is used to protect against interference created from other cables or outside electronic/ electrical or mechanical devices.
- Shield is normally 100% Aluminum foil wrap

Jacket:

- PVC for Non-Plenum FPLR
- Flexible Fire Retardant PVC for FPLP
- Jacket Color: Normally Red, but can be any color. West Penn Wire has the capability to Strip the cable jacket.

Electrical Characteristics:

- Nom. DCR (AWG Size) is the most important electrical property in Conventional systems.
- Capacitance: Te capacitance is not an important electrical property in Conventional systems.

Notes:

Initiating Devices and the associated cables communicate back to the FACP the information about that ZONE. The Cables AWG size is the important factor to deliver the analog signals to the FACP. You will find that normally 18-16 AWG Cables.

Notification Devices and associated cables send power to the devices. You will find that normally 16-12 AWG cables are utilized.

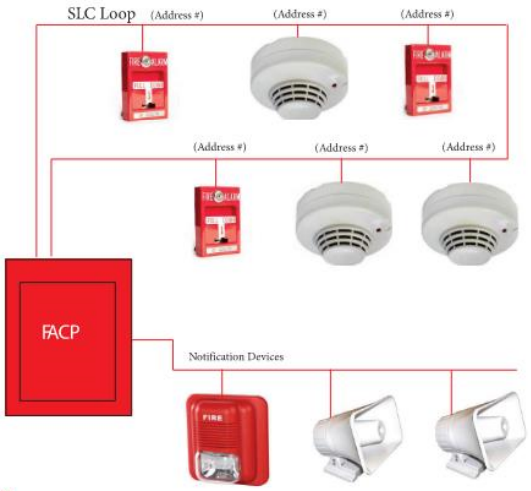
Addressable (Multiplex) FA Systems

Addressable Fire Alarm Systems differ from conventional systems in a number of ways and certainly addmore flexibility,intelligence, speed of identification and scope of control.For this reason, Addressable Fire Alarm Systems are the natural choice for larger premises and buildings with morecomplex system requirements.

In an Addressable system, detectors are wired in a loop around the building with each detector havingits own unique address.The system may contain one or more loops depending upon the size of the sys-tem and design requirements.The Fire Control Panel communicates with each detector individually andreceives a status report e.g Normal, Alarm, Trouble etc. As each detector has an individual address thefire alarm control panel is able to display or indicate the precise location of the device in question, whichobviously helps speed the location of an incident and for this reason zoning of the system is not neces-sary, although it may be done for convenience.

Addressable detectors are, in themselves, intelligent devices which are capable of reporting far morethan just fire or fault conditions.Most analog addressable detectors are able to signal if contamination inthe device reaches a pre-set level enabling maintenance to take place prior to problems being experienced.

In most earlier styles of Addressable systems, the notification appliances were not intellegent.Today,many manufacturers are providing addressable notification technology.There are many advantages ofproviding such technology,Such as lower cost of wire, and overall installation time.



Addressable Cable Selection

The designer must be aware of not only the D.C Resistance of the cable, but the capacitance and theVelocity of proporgation of the cable.The designer must assure that the overall loop capacitance is notcompromised, and error rates are kept to a minimum.

Nominal Capacitance for wire sizes:

18 AWG solid unshielded: 16pf/ft

18 AWG solid shielded: 25pf/ft t45pf/ft **

16 AWG solid unshielded: 17pf/ft

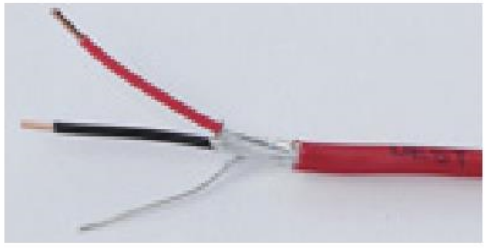
16 AWG solid shielded: 30pf/ft 54pf/ft **

14 AWG solid shielded: 30pf/ft. 54pf/ft **

12 AWG solid shielded: 35pf/ft. 63pf/ft **

Capacitance between one conductor and the other connected to the shield.

Addressable FA Cables



Conductor:
- Shall not be smaller than a 26AWG
- Single Conductor no smaller than 18AWG
- Solid or Stranded Conductor. Bare Copper for low DCR

Inuslation:
- Polypropylene Insulation FPLR
- Fluropolymer Insulation Tefon FPLP
- Conductors are twisted.

Shield:
- Dependent on the system requirements and environmental conditions
  - Unshielded or Shielded
- Shield is used to protect against interference created from other cables or outside electronic/ electrical or mechanical devices.
- Shield is normally 100% Aluminum foil wrap

Jacket:
- PVC for Non-Plenum FPLR
- Flexible Fire Retardant PVC for FPLP
- Jacket Color: Normally Red, but can be any color. West Penn Wire has the capability to Strip the cable jacket.

Electrical Characteristics:
- Nom. DCR (AWG Size) is an important electrical property in Addressable systems.
- Capacitance: Te capacitance has a bigger infuence on cable distance. Te lower the capacitance the better the digital signals can be transmitted and received.

Notes:
Initiating Devices in an Addressable systems are referred to as SLC - Signal Line Circuits. Normally 16-18 AWG Low capacitance higer Velocity of Propogation.

For Digital Audio Loops: a 100Ω +/-5% is needed. West Penn Wire D980 and D990 are the best choice.
Notification Devices and associated cables send power to the devices. You will find that normally 16-12 AWG cables are utilized.

West Penn Wire Cables Guide

Unshielded Fire Alarm Cables

AWG Size	# of Cond.	FPL				FPLR FPLP	Plenum	
		Aquaseal Direct Burial	Aquaseal In-Conduit	Low Cap	Parallel			Low Cap
12 Solid	2				974	998	60995B	
14 Solid	2				972	994	60993B	
14 Solid	4					700	60700B	
16 Solid	2			D990	971	990	60991B	D60991
16 Solid	4					992	60164B	
18 Solid	2			D980	970	980	60980B	D60980
18 Solid	4					982	60992B	
12 Strnd	2	AQ227						
14 Strnd	2	AQ226	AQC226					
14 Strnd	4	AQ246						
16 Strnd	2	AQ225	AQC225					
16 Strnd	4	AQ245						
18 Strnd	2	AQ224	AQC224					
18 Strnd	4	AQ244						

Shielded Fire Alarm Cables

AWG Size	# of Cond.	FPL			FPLR FPLP	Plenum	
		Aquaseal Direct Burial	Aquaseal In-Conduit	Low Cap L			ow Cap
12 Solid	2				999	60994B	
14 Solid	2						
14 Solid	4				995	60992B	
16 Solid	2			D991	991	60990B	D60991
16 Solid	4				993	603164B	
18 Solid	2			D975	975	60975B	D60975
18 Solid	4				977	60977B	
12 Strnd	2	AQ296					
14 Strnd	2	AQ295	AQC295				
14 Strnd	4						
16 Strnd	2	AQ294	AQC294				
16 Strnd	4	AQ2345					
18 Strnd	2	AQ293	AQC293				
18 Strnd	4	AQ3244					

AQUASEAL - Indoor/Outdoor Cables

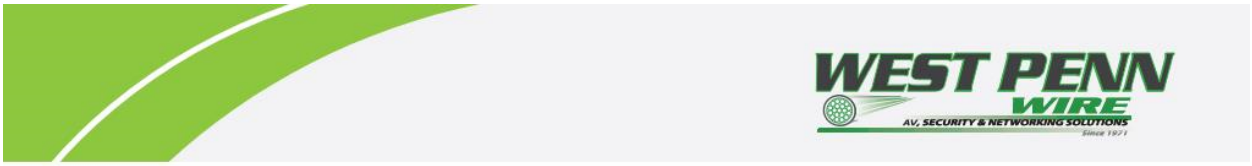
Aquaseal®
Water Resistant Cables

Aquaseal Power-limited water-resistant cables are designed to be used for indoor/outdoor fire alarm system. The Aquaseal products are manufactured using a premium grade jacket compound.These cables are flame retardant, sunlight and water resistant, and employ an abrasion and crush resistant construction. This durability allows the Aquaseal power-limited water-resistant cables to be direct burial.

The internal cable construction employs a dry water blocking barrier instead of a messy gel.Unlike many other outdoor cables which can not be placed indoors due to their inability to pass flame tests. Aquaseal waterresistant cables carry both indoor and outdoor ratings.

Aquaseal cable retains consistent electrical characteristics compared to standard cable when immersed in water. The moisture blocking barrier used in this cable has proven itself in various tests where standard outdoor cable has failed. This can be verified by monitoring the capacitance levels of both cables.Aquaseal water-resistant cables will consistently have lower capacitance values and remain stable overthe long haul enabling the lowest signal loss.

Aquaseal is UL listed NEC type FPL or PLTC rated and utilizing 18 AWG to 12 AWG makes this cableexcellent for low voltage Conventional and Addressable systems.



WEST PENN WIRE
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Washington, PA 15301
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FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

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LISTING No. 7161-0859:0101

CATEGORY: 7161 -- CABLES-FIRE PROTECTIVE SIGNALING

LISTEE: West Penn Wire2833 W Chestnut St, Washington, PA 15301
Contact: Gerald Dorna (765) 983-5200 Ext: 810
Email: gerald.dorna@belden.com

DESIGN: Types FPL and FPLP power limited fire protective signaling cable. Refer to listee's data sheet for detailed product description and operational considerations.

INSTALLATION: In accordance with listee's printed installation instructions, NEC Article 760, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, type, NEC rating and UL label.

APPROVAL: Listed as power-limited fire protective signaling cable.

*Rev. 05-23-2005

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Authorized By: ***VICTOR WONG**, Program Coordinator*
Fire Engineering Division

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OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

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LISTING No.	7160-0859:0102
CATEGORY:	7160 -- CABLES-OTHERS
LISTEE:	West Penn Wire2833 W Chestnut St, Washington, PA 15301 Contact: Gerald Dorna (765) 983-5200 Ext: 810 Email: gerald.dorna@belden.com
DESIGN:	Type NPLF conductor cable. Refer to listee's data sheet for detailed product description and operational considerations.
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Listee's name, type, NEC rating and UL label.
APPROVAL:	Listed as non-power limited conductor cable.

*Rev. 05-23-2005

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FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

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LISTING No.	7160-0859:0103
CATEGORY:	7160 -- CABLES-OTHERS
LISTEE:	West Penn Wire2833 W Chestnut St, Washington, PA 15301 Contact: Gerald Dorna (765) 983-5200 Ext: 810 Email: gerald.dorna@belden.com
DESIGN:	Type NPLFP plenum cable. Refer to listee's data sheet for detailed product description and operational considerations.
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING:	Type and UL label.
APPROVAL:	Listed as non power-limited plenum cable.

*Rev. 05-23-2005

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Authorized By: ***VICTOR WONG**, Program Coordinator*
Fire Engineering Division

2. DSA 103-19

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number:	School Name:	School District:
01-119997	Diablo Valley College	Contra Costa Community College District
DSA File Number:	**Increment Number:**	**Date Created:**
07-C1		2022-04-18 08:30:50

2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT | DEPARTMENT OF GENERAL SERVICES | STATE OF CALIFORNIA

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DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number:	School Name:	School District:
01-119997	Diablo Valley College	Contra Costa Community College District
DSA File Number:	**Increment Number:**	**Date Created:**
07-C1		2022-04-18 08:30:50

	17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Material Verification and Testing:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	**Table 1705A.2.1 Item 3a–3c.** 2202A.1; AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	Test	LOR	2202A.1.
☐	**c.** Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:				
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).

	18. HIGH-STRENGTH BOLTS: RCSC 2014			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	**Table 1705A.2.1 Items 1a & 1b, 2202A.1**; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	**b.** Test high-strength bolts, nuts and washers.	Test	LOR	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
Inspection of High-Strength Bolt Installation:				
☐	**c.** Bearing-type ("snug tight") connections.	Periodic	SI	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☐	**d.** Pretensioned and slip-critical connections.	*	SI	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

	19. WELDING:	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3 (See Appendix for exemptions.)		
Verification of Materials, Equipment, Welders, etc.:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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	19.1 SHOP WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1;** AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	**d.** Verification of reinforcing steel weldability other than ASTM A706.	**Periodic**	**SI**	**1705A.3.1;** AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**e.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

	19.2 FIELD WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	**d.** Inspect floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.6**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	**e.** Inspect welding of structural cold-formed steel.	**Periodic**	**SI***	**1705A.2.5; AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-15 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	**f.** Inspect welding of stairs and railing systems.	**Periodic**	**SI***	**1705A.2.1**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	**g.** Verification of reinforcing steel weldability.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**h.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8**; AWS D1.4; DSA IR 17-3.

	20. NONDESTRUCTIVE TESTING: **1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16**			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	b. Magnetic Particle	Test	LOR	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

	22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.14.
☐	b. Test bond strength.	Test	LOR	1705A.14.6.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

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☐	c. Test density.	Test	LOR	1705A.14.5.

	23. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD), 2019 CBC

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	24. PREFABRICATED WOOD STRUCTURAL ELEMENTS: Section 1705A.5			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect fabrication of structural glued-laminated timber.*	Continuous	SI	* See 1705A.5.4 for exceptions
☐	**b.** Inspect fabrication of manufactured open-web trusses.	Continuous	SI	**1705A.5.5**; DSA IR 23-8.
☐	**c.** Inspect fabrication of manufactured metal-plate-connected trusses.	Continuous	SI	**1705A.5, 1705A.5.2**; DSA IR 23-4.

	25. OTHER Wood:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	a. Verify installation of wood framing for general conformance with construction documents.	Periodic	SI	
☑	b. Verify installation of light gauge steel connectors.	Periodic	SI	
☑	c. Verify shear wall sheathing nailing and spacing.	Periodic	SI	

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

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☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	Welding:
☐	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

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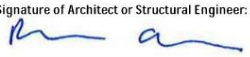
Name of Architect or Engineer in general responsible charge:

Daniel Ahkiam, SE

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer:



Date: 4/18/2022

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

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DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

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1.	Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2.	Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
3.	Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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END OF SECTION

SECTION 101423.16

ROOM-IDENTIFICATION PANEL SIGNAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes room-identification signs that are directly attached to the building.

1.3 DEFINITIONS

A. Accessible: In accordance with the accessibility standard.

1.4 COORDINATION

A. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For room-identification signs.

1. Include fabrication and installation details and attachments to other work.
2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
3. Show message list, typestyles, graphic elements, including raised characters and Braille, and layout for each sign at least half size.

C. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.

1. Include representative Samples of available typestyles and graphic symbols.

D. Samples for Verification: For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:

1. Room-Identification Signs: Full-size Sample.
2. Full-size Samples, if approved, will be returned to Contractor for use in Project.

E. Product Schedule: For room-identification signs. Use same designations indicated on Drawings or specified.

1.6 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For special warranty.

1.7 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Deterioration of finishes beyond normal weathering.
b. Deterioration of embedded graphic image.
c. Separation or delamination of sheet materials and components.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: Comply with applicable provisions in CBC Chapter 11B-703 Signs.

2.2 ROOM-IDENTIFICATION SIGNS

A. Room-Identification Sign: Sign with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:

1. Basis-of-Design Product: Subject to compliance with requirements, provide ASI Sign Systems, Inc InTouch, or comparable product by one of the following:

a. Ace Sign Systems.
b. Inpro Corporation.

2. Laminated-Sheet Sign: Photopolymer face sheet with raised graphics laminated to acrylic backing sheet to produce composite sheet.

    a. Composite-Sheet Thickness: 0.125 inch.
    b. Color(s): As selected by Architect from manufacturer's full range or to match Existing.

3. Sign-Panel Perimeter: Finish edges smooth.

    a. Edge Condition: Square cut.
    b. Corner Condition in Elevation: As indicated on Drawings or to match Existing.

4. Mounting: Mount to backing plate, unless otherwise indicated on drawings or to match Existing.
5. Text and Typeface: Accessible raised characters and Braille typeface as selected by Architect from manufacturer's full range. Finish raised characters to contrast with background color, and finish Braille to match background color.
6. Raised Characters: Raised characters shall comply with Section 11B-703.2 as follows and shall be duplicated in Braille complying with Section 11B-703.3. Raised characters shall be installed at heights and locations in accordance with Section 11B-703.4.

    a. Depth: Raised characters shall be 1/32-inch minimum above their background.
    b. Case: Characters shall be uppercase.
    c. Style: Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.
    d. Character proportions: Characters shall be selected from fonts where the width of the uppercase letter “O” is 60 percent minimum and 110 percent maximum of the height of the uppercase letter “I”.
    e. Character height: Character height measured vertically from the baseline of the character shall be 5/8-inch minimum and 2-inches maximum based on the height of the uppercase letter “I”.
    f. Stroke thickness: Stroke thickness of the uppercase letter “I” shall be 15 percent maximum of the height of the character.
    g. Character spacing: Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8-inch minimum and 4-times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16-inch minimum and 4-times the raised character stroke width maximum and 4-times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8-inch minimum.
    h. Line spacing: Spacing between the baselines of separate lines of raised characters within a message shall be 135-percent minimum and 170-percent maximum of the raised character height.
    i. Format: Text shall be in a horizontal format

7. Braille: Braille shall be contracted (Grade 2) and shall comply with Sections 11B-703.3 as follows and 11B-703.4 for installation height and location.

    a. Dimensions and capitalization: Braille dots shall have a domed or rounded shape and shall comply with Table 11B-703.3.1 and as shown on drawings. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of alphabet, initials, and acronyms.
    b. Position: Braille shall be positioned below the corresponding text in a horizontal format, flush left or centered. If text is multi-lined, Braille shall be placed below the entire text. Braille shall be separated 3/8-inch minimum and ½-inch maximum from any other tactile characters and 3/8-inch minimum from raised borders and decorative elements.

8. Visual Characters: Visual characters shall comply with Section 11B-703.5 as follows.

    a. Exception: Where visual characters comply with Section 11B-703.2 requirements for raised characters and are accompanied by Braille complying with Section 11B-703.3, they shall not be required to comply with Sections 11B-703.5.2 through 11B-703.5.6 for case, style, character proportions, character height, and mounting height; 11B-703.5.8 for character spacing; and 11B-703.5.9 for line spacing.
    b. Finish and contrast: Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.
    c. Case: Characters shall be uppercase or lowercase or a combination of both.
    d. Style: Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.
    e. Character proportions: Characters shall be selected from fonts where the width of the uppercase letter “O” is 60 percent minimum and 110 percent maximum of the height of the uppercase letter “I”.
    f. Character height: Minimum character height shall comply with Table 11B-703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter “I”.
    g. Height from finish floor or ground: Visual characters shall be 40-inches minimum above the finish floor or ground.
    h. Stroke thickness: Stroke thickness of the uppercase letter “I” shall be 10-percent minimum and 20-percent maximum of the height of the character.
    i. Character spacing: Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10-percent minimum and 35-percent maximum of character height.
    j. Line spacing: Spacing between the baselines of separate lines of characters within a message shall be 135-percent minimum and 170-percent maximum of the character height.
    k. Format: Text shall be in a horizontal format.

9. Pictograms: Pictograms shall comply with Section 11B-703.6 as follows.

a. Pictograms field: Pictograms shall have a field height of 6-inches minimum. Characters and Braille shall not be located in the pictogram field.
b. Finish and contrast: Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.
c. Text descriptors: Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with Sections 11B-703.2 (raised characters), 11B-703.3 (Braille) and 11B-703.4 (height and location).

10. Symbols of Accessibility: Symbols of accessibility shall comply with Section 11B-703.7 as follows.

a. Finish and contrast: Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.
b. International Symbol of Accessibility: The International Symbol of Accessibility shall comply with Figure 11B-703.7.2.1 and as shown on drawings. The symbol shall consist of a white figure on a blue background, or as otherwise approved by the Authority Having Jurisdiction. The blue shall be Color No. 15090 in Federal Standard 595B.

2.3 SIGN MATERIALS

A. Acrylic Sheet: ASTM D4802, category as standard with manufacturer for each sign, Type UVF (UV filtering), or to match Existing.

2.4 ACCESSORIES

A. Two-Face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch thick, with adhesive on both sides.

2.5 FABRICATION

A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.

2.6 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.

1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
2. Install signs so they do not protrude or obstruct according to the accessibility standard.
3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.

B. Accessibility: Install signs in locations on walls as indicated on Drawings and according to the accessibility standard.

C. Mounting Methods:

1. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

2. Mechanical Attachment to Substrate: Where sign size requires backing plate, provide screws into the wall substrate.

3.2 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 101423.16

SECTION 284600 – ADDRESSABLE FIRE-ALARM SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. New addressable fire alarm and detection system with voice notification.
2. Fire alarm notification appliances.
3. Fire alarm remote annunciators.

B. Related Requirements:

1. Section 260519 "Low-Voltage Electrical Power Conductors and Cables".
2. Section 260533 "Raceways and Boxes for Electrical Systems".

1.3 DEFINITIONS

A. AHJ: Authorities having jurisdiction.

B. DACT: Digital alarm communicator transmitter.

C. FAA: Fire alarm annunciator unit with integral firefighters’ microphone.

D. FACP / FACU: Fire alarm control panel / unit.

E. NAC: Notification appliance circuit.

F. NICET: National Institute for Certification in Engineering Technologies.

G. SLC: Signaling line circuit.

H. Voltage Class: For specified circuits and equipment, voltage classes are defined as follows:

1. Control Voltage: Listed and labeled for use in remote-control, signaling, and power-limited circuits supplied by a Class 2 or Class 3 power supply having rated output not greater than 150 V and 5 A, allowing use of alternate wiring methods complying with CEC, Article 725.

2. Low Voltage: Listed and labeled for use in circuits supplied by a Class 1 or other power supply having rated output not greater than 1000 V, requiring use of wiring methods complying with CEC, Article 300, Part I.

1.4 SPECIAL CONDITIONS

A. This section includes all labor, material, equipment, and related services necessary to install, new fully functional emergency voice alarm communication (EVAC) fire life safety system per DSA IR F-1 documentation. Work shall include requires system programming to suite application.

B. Equipment Removal: After acceptance of new fire alarm system, remove existing disconnected fire alarm equipment and wiring. Work: Existing fire alarm system components that are removed by this contractor and not reinstalled, including control equipment, devices, and cabling, shall remain to be the property of the Owner, unless specific items are relinquished to the contractor for disposal or recycling. All items shall be handled carefully and stored in a secure place. Coordinate exact requirements directly with the Owner.

1.5 ACTION SUBMITTALS

A. Submittals shall be combined into the fewest possible submittals, as opposed to each portion being submitted separately.

B. Project Information:

1. Documentation of Installer Qualifications:

   a. Trained and certified by manufacturer in fire alarm system design.
   b. Fire alarm certified by NICET, minimum Level III.

2. Project Title Sheet with Contact Information:

   a. Project name and address.
   b. Contractor’s name, address, and telephone number.
   c. Installer’s name, address, and telephone number.
   d. Manufacturer’s name, address, and telephone number.
   e. Date submitted.

C. Product Data: For each type of product, including furnished options and accessories.

1. Specifically indicate complete model number for each system component/device. Information and options not included shall be crossed out
2. Include construction details, material descriptions, dimensions, profiles, and finishes.
3. Include rated capacities, operating characteristics, and electrical characteristics.

D. Shop Drawings: For fire alarm system.

1. Comply with recommendations and requirements in "Documentation" section of "Fundamentals" chapter in NFPA 72.
2. Include plans, elevations, sections, and details, including details of attachments to other Work.
3. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and locations. Indicate conductor sizes, indicate termination locations and requirements, and distinguish between factory and field wiring.
4. Details for FAA units and graphic annunciator panels as required by authorities having jurisdiction.
5. Detail assembly and support requirements.
6. Include voltage drop calculations for notification-appliance circuits.
7. Include battery-size calculations and identify spare capacity available.

    a. Include power supply calculations and identify spare capacity available.
    b. Include amplifier calculations and power loss calculations for notification appliances.

8. Include input/output operations matrix (sequence of operation per NFPA 72).
9. Include written statement from manufacturer that equipment and components have been tested as a system and comply with requirements in this Section and in NFPA 72.
10. Include performance parameters and installation details for each detector.
11. Verify that each duct detector is listed for complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
12. Provide control wiring diagrams for fire alarm interface to HVAC; coordinate location of duct smoke detectors and access to them.

    a. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators.
    b. Show field wiring and equipment required for HVAC unit shutdown on alarm.
    c. Locate detectors in accordance with manufacturer's written instructions.
13. Include voice/alarm signaling-service equipment rack or console layout, grounding schematic, and single-line connection diagram.

14. Floor Plans:

    a. Submit drawings produced and plotted via electronic means (not hand drafted) for review. See Division 01 Section, “CAD Electronic Media Transfer Agreement” for obtaining AutoCAD files from the Architect and for associated request form and fees.
    b. Include floor plans to indicate final outlet locations showing address of each addressable device. Show size and route of cable and conduits and point-to-point wiring diagrams.
    c. Show room names that indicate actual room use and actual number designations.

d. Show the locations of all system panels and devices, including monitor modules, control modules, and relays.
e. Show the designated address of each addressable device.
f. Show the cabling pathways between control panel(s), supervising station/annunciator panels, voice command, and shared communications equipment.
g. Show the general routing of cabling to each fire alarm device/notification appliance.
h. Show typical mounting height elevations for wall-mounted devices and appliances.
i. Indicate the selected candela rating for each visual (strobe) device.

E. Delegated Design Submittal: For notification appliances and smoke and heat detectors, in addition to submittals listed above, indicate compliance with performance requirements and design criteria, including analysis data signed and sealed by qualified professional engineer responsible for their preparation.

1. Drawings showing location of each notification appliance and smoke and heat detector, ratings of each, and installation details as needed to comply with listing conditions of device.

a. Include designation of acoustically distinguishable spaces and method for testing intelligibility and audibility levels. In each room where voice notification is required indicate the value of the minimum required sound pressures to achieve code compliance.

2. Design Calculations: Calculate requirements for selecting spacing and sensitivity of detection, complying with NFPA 72. Calculate spacing and intensities for strobe signals and sound-pressure levels for audible appliances.
3. Indicate audible appliances required to produce square wave signal per NFPA 72.

1.6 INFORMATIONAL SUBMITTALS

A. Certificates:

1. Seismic Performance Certificates: For FACU, accessories, and components, from manufacturer. Include the following information:

a. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
b. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
c. Detailed description of equipment anchorage devices on which certification is based and their installation requirements.

B. Field quality-control reports.

C. Documentation of Installer Qualifications:

1. Trained and certified by manufacturer in fire alarm system design.
2. Fire alarm certified by NICET, minimum Level III.

D. Sample Warranty: Submittal must include line-item pricing for replacement parts and labor.

1.7 CLOSEOUT SUBMITTALS

A. Field quality-control reports.

B. Record Drawings:

1. Include record documents (as-built drawings) that accurately reflect the actual completed installation, actual devices, actual room names, and actual locations within each room. Revise, update, and edit all Pre-Installation Documents as defined above, including updated riser diagrams.
2. Electronic files shall be shared via electronic media and recorded on two (2) flash-drives. Hardcopies shall be as indicated above for shop drawings.

C. Operation and Maintenance Data: For fire alarm systems and components to include in emergency, operation, and maintenance manuals.

1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:

a. Comply with "Records" section of "Inspection, Testing and Maintenance" chapter in NFPA 72.
b. Provide "Fire alarm and Emergency Communications System Record of Completion Documents" in accordance with "Completion Documents" Article in "Documentation" section of "Fundamentals" chapter in NFPA 72.

1) Submit the "Record of Completion" form signed by the certified installer to the AHJ.

c. Complete wiring diagrams showing connections between devices and equipment. Each conductor must be numbered at every junction point with indication of origination and termination points.
d. Riser diagram.
e. Device addresses.
f. Record copy of site-specific software.
g. Provide "Inspection and Testing Form" in accordance with "Inspection, Testing and Maintenance" chapter in NFPA 72, and include the following:

1) Equipment tested.
2) Frequency of testing of installed components.
3) Frequency of inspection of installed components.

4) Requirements and recommendations related to results of maintenance.
5) Manufacturer's user training manuals.

h. Manufacturer's required maintenance related to system warranty requirements.
i. Abbreviated operating instructions for mounting at FACU and each annunciator unit.

D. Software and Firmware Operational Documentation:

1. Software operating and upgrade manuals.
2. Program Software Backup: On USB media and approved online or cloud solution.
3. Device address list.

1.8 MAINTENANCE MATERIAL SUBMITTALS

A. Extra Stock Material: Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Lamps for Strobe Units: Quantity equal to five percent (5%) of amount installed, but no fewer than one unit.
2. Smoke Detectors and Heat Detectors: Quantity equal to five percent (5%) of amount of each type installed, but no fewer than one unit of each type.
3. Carbon Monoxide Detectors: Quantity equal to five percent (5%) of amount of each type installed, but no fewer than one unit of each type.
4. Detector Bases: Quantity equal to two percent (2%) of amount of each type installed, but no fewer than one unit of each type.
5. Keys and Tools: One extra set for access to locked or tamper-proofed components.
6. Audible and Visual Notification Appliances: One of each type installed.
7. Fuses: Two (2) of each type installed in system. Provide in box or cabinet with compartments marked with fuse types and sizes.

B. Include a list of extra materials—confirmed and signed by Owner’s representative—in the Operation and Maintenance Manuals.

1.9 QUALITY ASSURANCE

A. Installer Qualifications:

1. Personnel must be trained and certified by manufacturer for installation of units required for this Project.
2. Installation must be by personnel certified by NICET as fire alarm Level IV technician.
3. Obtain certification by NRTL in accordance with NFPA 72.

4. Licensed or certified by authorities having jurisdiction.
5. Supplier/Service Provider: Must confirm and maintain an authorized service representative within 90 miles travel distance from the location of the installation.

B. Compliance with Local Codes and Ordinances: Comply with all applicable building codes, local ordinances, regulations, and the all the requirements of the AHJ.

C. Compliance with Codes and Standards:

1. International Building Code (IBC), 2018 Edition.
2. International Existing Building Code (IEBC) 2018 Edition.
3. International Fire Code (IFC) 2018 Edition.
4. International Mechanical Code (IMC) 2018 Edition.
5. California Electrical Code (CEC) (current edition).
6. NFPA 72, National Fire Alarm and Signal Code (current edition).
7. NFPA 101, Life Safety Code (LSC) with Local Amendments (current edition).
8. ADA Accessibility Guidelines – Standards for Accessible Design.

D. Electrical wiring and equipment, including circuits controlled and powered by the fire alarm system: Compliance with the CEC. (Also, compliance with Articles 725 and 760 as applicable.)

E. Optical Fiber Cables: Compliance with CEC, Article 770, if applicable.

F. This contract shall include all hardware, firmware, software, programming, electric power, cabling pathways/raceways, electrical boxes, cabling, outside plant (if applicable), and all system components to be supplied and installed for a complete and functional turnkey system—without exception. To achieve this, this contractor and subcontractors shall be responsible under this contract for determining—prior to submitting bids—any existing equipment or field conditions as applicable, complete requirements for new work and the delineation of all work amongst qualified installers and technicians necessary for a fully functional and professional installation.

1. FIELD CONDITIONS

G. Seismic Conditions: Unless otherwise indicated on Contract Documents, specified Work in this Section must withstand the seismic hazard design loads determined in accordance with ASCE/SEI 7 for installed elevation above or below grade.

1. The term "withstand" means "unit must remain in place without separation of parts from unit when subjected to specified seismic design loads and unit must be fully operational after seismic event."

1.10 WARRANTY

A. Manufacturer’s Warranty: Manufacturer agrees to repair or replace fire alarm system equipment and components that fail because of defects in materials or workmanship within specified warranty period.

1. Special Extended Warranty Period: Shall exceed four (4) years starting from the date of Substantial Completion.

    a. If the manufacturer's warranty commences upon the date that materials are delivered, then the manufacturer's warranty period shall be at least five (5) years to meet the requirement stated above.

2. Warranty requirements shall include furnishing and installing all software upgrades issued by the manufacturer during the warranty period.
3. Warranty shall cover repair or replacement of such parts determined defective upon inspection, including the full cost of related materials and labor. Additionally, there shall be no expense to the owner due to "other-than-normal" working hours.

    a. Warranty shall not cover any labor expended or materials used to repair any equipment without manufacturer's prior written authorization.
    b. Warranty does not cover any product or part of a product subject to accident, negligence, alteration, abuse or misuse. Warranty does not cover any accessories or parts not supplied under this contract.

4. A service contract shall be offered to the Owner proposing regular or ongoing factory- authorized service of the installed system.

PART 2 - PRODUCTS

2.1 SYSTEM MANUFACTURER

A. Subject to compliance with all requirements, provide system components, equipment, and products by one of the following:

1. Notifier; Honeywell International.
2. Potter Electric Signal Company, LLC
3. Siemens Industry, Inc.; Fire Safety Division.
4. Gamewell-FCI, Inc. (Honeywell, Inc.)

B. Wire and Cable:

1. West Penn Wire/CDT (Cable Design Technologies).
2. Comtran Corp.
3. Helix/HiTemp Cables, Inc. (Draka USA Co.).
4. Rockbestos-Suprenant Cable Corp. (Marmon Group Co.).

2.2 FIRE ALARM CONTROL PANEL (FACP) OR UNIT (FACU)

A. Description: Field-programmable, microprocessor-based, modular, power-limited design with electronic modules.

B. Performance Criteria:

1. Regulatory Requirements: Comply with NFPA 72 and UL 864.
2. General Characteristics:

a. System software and programs must be held in nonvolatile flash, electrically erasable, programmable, read-only memory, retaining information through failure of primary and secondary power supplies.
b. Include real-time clock for time annotation of events on event recorder and printer.
c. Provide communication between FACU and remote circuit interface panels, annunciators, and displays.
d. FACU must be listed for connection to the central station signaling system service.
e. Provide nonvolatile memory for system database, logic, and operating system and event history. System must require no manual input to initialize in the event of complete power down condition. FACU must provide minimum 500-event history log.
f. Addressable Initiation Device Circuits: FACU must indicate which communication zones have been silenced and must provide selective silencing of alarm notification appliance by building communication zone.

1) Addressable Control Circuits for Operation of Notification Appliances and Mechanical Equipment: FACU must be listed for releasing service.

g. FAA Unit (Fire Alarm Annunciator): Arranged for interface between human operator at FACU and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and programming and control menu.

1) Annunciator and Display: LCD, 80 characters, minimum.
2) Keypad: Arranged to permit entry and execution of programming, display, and control commands.

h. Alphanumeric Display and System Controls: Arranged for interface between human operator at FACU and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and programming and control menu.

1) Annunciator and Display: LCD, three lines of 80 characters, minimum.
2) Keypad: Arranged to permit entry and execution of programming, display, and to indicate control commands to be entered into system for control of smoke-detector sensitivity and other parameters.

i. Initiating-Device, Notification-Appliance, and Signaling-Line Circuits:

1) Pathway Class Designations: NFPA 72, Class B.
2) Pathway Survivability: Level 0 or Level 1.

3) Install no more than 125 addressable devices on each signaling-line circuit.
4) Install fault circuit isolators to comply with circuit performance requirements of NFPA 72 or with manufacturer's written instructions, whichever is more conservative.

j. Serial Interfaces:

1) One dedicated RS 485 port for central-station and remote-station operation using point ID DACT.
2) One RS 485 port for remote annunciators, Ethernet module, or multi-interface module.
3) One USB port for PC configuration.
4) One RS 232 port for PC configuration.
5) One RS 232 port for air-aspirating smoke detector connection.
6) One RS 232 port for voice evacuation interface.

k. Smoke alarm Verification:

1) Initiate audible and visible indication of "alarm-verification" signal at FACU.
2) Activate approved "alarm-verification" sequence at FACU and detector.
3) Record events by system printer.
4) Sound general alarm if alarm is verified.
5) Cancel FACU indication and system reset if alarm is not verified.

l. Notification-Appliance Circuit:

1) Audible appliances must sound in three-pulse temporal pattern, as defined in NFPA 72.
2) Where notification appliances provide signals to sleeping areas, alarm signal must be 520 Hz square wave with intensity 15 dB above average ambient sound level or 5 dB above maximum sound level, or at least 75 dB(A-weighted), whichever is greater, measured at pillow.
3) Visual alarm appliances must flash in synchronization where multiple appliances are in same field of view, as defined in NFPA 72.

m. Remote Smoke-Detector Sensitivity Adjustment: Controls must select specific addressable smoke detectors for adjustment, display their current status and sensitivity settings, and change those settings. Allow controls to be used to program repetitive, time-scheduled, and automated changes in sensitivity of specific detector groups. Record sensitivity adjustments and sensitivity-adjustment schedule changes in system nonvolatile memory. Print out final adjusted values on system printer.
n. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to remote alarm station.
o. Voice/Alarm Signaling Service: Central emergency communication system with redundant microphones, preamplifiers, amplifiers, and tone generators provided in separate cabinet or special module that is part of FACU.

p. Indicate number of alarm channels for automatic, simultaneous transmission of different announcements to different zones or for manual transmission of announcements by use of central-control microphone. Amplifiers must comply with UL 1711.

1) Allow application of, and evacuation signal to, indicated number of zones and simultaneously allow voice paging to other zones selectively or in combination.
2) Programmable tone and message sequence selection.
3) Standard digitally recorded messages for "Evacuation" and "All Clear."
4) Generate tones to be sequenced with audio messages of type recommended by NFPA 72 and that are compatible with tone patterns of notification-appliance circuits of FACU.

q. Status Annunciator:

1) Indicate status of various voice/alarm speaker zones.
2) Indicate status of firefighter's microphone.

r. Preamplifiers, amplifiers, and tone generators must automatically transfer to backup units, on primary equipment failure.
s. Primary Power: 24 V(dc) obtained from 120 V(ac) service and power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory signals, supervisory and DACT transmitters, must be powered by 24 V(dc) source.

1) Equipment power supplies shall be served from a dedicated 20A/1P circuit breaker. Each circuit breaker shall be furnished with a red handle and lock-on clip, and shall be identified with engraved label that reads, "FIRE ALARM SYSTEM POWER."
2) Convenience Receptacle: For maintenance purposes (whether shown on the power plans or not) this contractor shall install a NEMA 5-20R duplex receptacle within 3 feet of the FACU, connected to a 120V 20A branch circuit.

t. Alarm current draw of entire fire alarm system must not exceed 80 percent of power-supply module rating.
u. Secondary Power: 24 V(dc) supply system with batteries, automatic battery charger, and automatic transfer switch.
v. Batteries: Sealed, maintenance free. Sealed, lead calcium.

C. System Circuits

1. Signaling Line Circuits: NFPA 72, Class B, Style 4.
2. Initiating Device Circuits (non-addressable circuits): NFPA 72, Class B, Style B.
3. Notification-Appliance Circuits: NFPA 72, Class B, Style Y.
4. Actuation of alarm notification appliances, emergency voice alarm communications, annunciation, and other system operations shall occur within 10 seconds after the activation of an initiating device.

5. Electrical monitoring for the integrity of wiring external to the FACU for mechanical equipment shutdown and magnetic door-holding circuits is not required, provided a break in the circuit will automatically cause doors to close and mechanical equipment to shut down (fail-safe configuration).

D. System Capacities and Constraints

1. Minimum Quantity of Addressable Points per SLC (Signaling Line Circuit): 198.
2. Minimum Quantity of Addressable Analog Sensor Inputs per SLC: 99.
3. Minimum Quantity of SLCs without expanding or adding *any* hardware other than SLC cards/modules that can be inserted into available slots: 8
4. Provide a minimum quantity of three (3) SLC cards/modules in FACU. Any unused cards/modules shall remain as spares (uninstalled per manufacturer).

    a. Install separate SLCs to serve areas separated by 2-hour firewalls (“2-A”, “2-FW”, etc.).
    b. Install separate SLCs to each distinct area/zone of the building
    c. Install no more than 125 addressable devices on each SLC.
    d. Each SLC per area and per floor level shall be connected to a separate and dedicated SLC card/module or a line isolation module to deliberately limit the extent and quantity of devices served by a single SLC module and/or isolated SLC branch circuit.

        1) No more than three (3) line isolation modules shall be allowed per SLC loop/card.

5. Minimum Quantity of NACs (Notification-Appliance Circuits): As needed to accommodate devices plus one (1) spare circuit.

    a. Install separate NACs to serve areas separated by 2-hour firewalls (“2-A”, “2-FW”, etc.).
    b. Install separate NACs to each distinct area/zone of the building
    c. Allow for 15 percent spare capacity on each NAC.
    d. Allow for spare capacity on each NAC by calculating the circuit load based upon an average of 1/2 Watt for each speaker installed.

6. Voice Notification Audio Amplifiers:

    a. Total amplifier power rating shall be determined based upon actual Watt rating for each speaker.
    b. Provide fully redundant back-up audio amplifiers.

7. Contractor may elect to supply and install remote NAC extender panel(s) in technology closets or electrical rooms. Coordinate exact location prior to installation. This contractor shall include all necessary electrical provisions, such as 120-volt power connections to panel(s). NAC extender panel shall comply with NFPA 72 requirements and these specifications.

E. Accessories:

1. Instructions: Computer printout or typewritten instruction card mounted behind plastic or glass cover in stainless steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe functional operation of system under normal, alarm, and trouble conditions.

2.3 FIRE ALARM NOTIFICATION APPLIANCES

A. Fire Alarm Emergency Voice Alarm Communication Speaker Notification Appliances:

1. Description: Notification appliances capable of outputting voice evacuation messages.
2. Performance Criteria:

a. Regulatory Requirements:

1) NFPA 72.
2) UL 1480.

b. General Characteristics:

1) Speakers for Voice Notification: Locate speakers for voice notification to provide intelligibility requirements of "Notification Appliances" and "Emergency Communications Systems" chapters in NFPA 72.
2) High-Range Units: Rated 2 to 15 W.
3) Low-Range Units: Rated 1 to 2 W.
4) Matching Transformers: Tap range matched to acoustical environment of speaker location.
5) Mounting: Factory finished faceplate, wall-mount or ceiling-mount as indicated on the drawings; semi-recessed, except where identified as surface mounted on the drawings; bidirectional, where indicated on the drawings.
6) Colors:

a) Wall-mounted notification devices shall be red with white lettering.
b) Ceiling-mounted notification devices shall be red with white lettering.
c) All notification devices (whether wall-mounted or ceiling mounted) shall be red with white lettering.

c. Combination Devices: Factory-integrated audible and visible devices in single-mounting assembly, equipped for mounting as indicated, and with screw terminals for system connections.
d. Wet or Damp Location Devices: Provide devices designed for wet and damp location applications or exterior applications wherever devices might be subjected to moisture, such as locker rooms, dishwashing rooms, outdoors, etc.

B. Fire Alarm Visible Notification Appliances:

1. Description: Strobe device with polycarbonate lens mounted on aluminum faceplate:

   a. Fire Alarm Notification: Clear or nominal white polycarbonate lens.

2. Performance Criteria:

   a. Regulatory Requirements:

      1) NFPA 72.
      2) UL 1971.

   b. Synchronization: All strobes within a common area must be synchronized.

   c. General Characteristics:

      1) Rated Light Output:

         a) 15 30 75 110 cd.
         b) Initial setting shall be assumed to be 110 cd.
         c) 15/30/75/110 cd, selectable in field by contractor based upon actual area of required coverage.

      2) For units with guards to prevent physical damage, light output ratings must be determined with guards in place.
      3) Flashing must be in temporal pattern, synchronized with other units.
      4) Strobe Leads: Factory connected to screw terminals.
      5) Mounting: Factory finished faceplate, wall-mount or ceiling-mount as indicated on the drawings; semi-recessed, except where identified as surface mounted on the drawings.
      6) Colors: Match same requirements specified for speaker notification appliances above.

   d. Combination Devices: Factory-integrated audible and visible devices in single-mounting assembly, equipped for mounting as indicated, and with screw terminals for system connections.
   e. Protective Guards: Provide manufacturer's wire-guard or impact resistant acrylic guard over devices exposed to a higher-than-normal risk of damage, such as in gymnasiums, locker rooms, and other areas as indicated on the drawings.
   f. Wet or Damp Location Devices: Provide devices designed for wet and damp location applications or exterior applications wherever devices might be subjected to moisture, such as locker rooms, dishwashing rooms, outdoors, etc.

2.4 WIRE AND CABLE

A. Wire and cable for fire alarm systems shall be UL listed and labeled as complying with CEC, Article 760.

B. All cabling and wiring associated with the fire alarm system shall be plenum-rated.

C. All cabling and wiring associated with the fire alarm system shall be installed in conduit, unless it is supported open above accessible ceilings entirely concealed from all viewing angles below.

D. Fire Alarm Cabling Above Accessible Ceilings: Use plenum-rated cable (FPLP) run open above accessible ceilings. Support this cabling at 4-feet intervals (or closer) using means specified in Division 26 Section “Hangers and Supports for Electrical Systems”. Maintain a minimum of 5-inches clearance from all lighting ballasts.

1. Do not place any fire alarm cabling in the same cable-hooks supporting other low-voltage cabling or in the cable tray that is shown on the plans (which is reserved for other low-voltage cabling). However, fire alarm cabling many be supported from the underside or along the outer edge of the cable tray via dedicated J-hooks.
2. Do not run any cabling exposed. All cabling must be entirely concealed above accessible ceilings or else installed in conduit. No cabling may be visible from any viewing angle below
3. Junction boxes located above accessible ceilings shall be painted red with SLC and NAC circuits identified on cover. Conduit shall be all red or identified by other means specified in Division 26 Section “Identification for Electrical Systems”.

E. Speaker Cabling: 2-hour fire-rated circuit integrity cable for EVAC system per NFPA 72 -6.9.10.4.2 and CEC 760.81.

F. Signaling Line Circuits: Twisted, shielded pair, size as recommended by system manufacturer.

1. Circuit Integrity Cable: Twisted shielded pair, the CEC Article 760, Classification CI, for power-limited fire alarm signal service. UL listed as Type FPL and complying with requirements in UL 1424 and in UL 2196 for a 2-hour rating.

G. Non-Power-Limited Circuits: Solid-copper conductors with 600-V rated, 75 deg C, color-coded insulation.

1. Low-Voltage Circuits: No. 16 AWG, minimum.
2. Line-Voltage Circuits: No. 12 AWG, minimum.
3. Multiconductor Armored Cable: the CEC Type MC, copper conductors, TFN/THHN conductor insulation, copper drain wire, copper armor with outer jacket with red identifier stripe, UL listed for fire alarm and cable tray installation, plenum rated, and complying with requirements in UL 2196 for a 2-hour rating.

H. Circuit Survivability: This facility's operational procedures require partial evacuation and/or relocation of occupants under a general fire alarm condition. Therefore, all NACs (notification appliance circuits), including circuits serving NAC extender panels (NEP) and other network communications circuits, must be installed and protected in accordance with the "circuit survivability" requirements described in NFPA 72. The contractor shall provide the following:

1. NACs serving separate *evacuation signaling zones* shall be routed separately such that they are no less than 4 feet apart when run horizontally and 1 foot apart when run vertically. They may come together only within 10 feet of the control panel. *Evacuation signaling zones* are identified on the drawings.
2. NACs passing through other *evacuation signaling zones* shall be installed in conduit and routed through the 2-hour fire-rated chase(s) or enclosure(s) identified on the drawings.
3. NAC's passing through other *evacuation signaling zones* outside of these 2-hour fire-rated chases or enclosures shall be the CEC classified CI cable installed in conduit.

    a. Circuit Integrity Cable: Twisted shielded pair, the CEC Article 760, Classification CI, for power-limited fire alarm signal service. UL listed as Type FPL, and complying with requirements in UL 1424 and in UL 2196 for a 2-hour rating. Provide products manufactured by Pyrotenax (CIC) or Rockbestos (VITALink).

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions for compliance with requirements for ventilation, temperature, humidity, and other conditions affecting performance of the Work.

1. Verify that manufacturer's written instructions for environmental conditions have been permanently established in spaces where equipment and wiring are installed, before installation begins.

B. Examine roughing-in for electrical connections to verify actual locations of connections before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

Retain "Interruption of Existing Fire alarm Service" Paragraph below if interruption of existing fire alarm system is required.

3.2 INSTALLATION OF EQUIPMENT

A. Comply with NECA 305, NFPA 72, NFPA 101, and requirements of authorities having jurisdiction for installation and testing of fire alarm equipment. Install electrical wiring to

comply with requirements in CEC including, but not limited to, Article 760, "Fire Alarm Systems."

1. Devices placed in service before other trades have completed cleanup must be replaced.
2. Devices installed, but not yet placed, in service must be protected from construction dust, debris, dirt, moisture, and damage in accordance with manufacturer's written storage instructions.

3. Install seismic bracing. Comply with requirements in Section 270548.16 "Seismic Controls for Communications Systems."
4. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around full perimeter of concrete base.
5. For supported equipment, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete floor.
6. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
7. Install anchor bolts to elevations required for proper attachment to supported equipment.

B. Equipment Floor and Wall Mounting: Install FACU on finished floor.

1. Comply with requirements for seismic-restraint devices specified in Section 270548.16 "Seismic Controls for Communications Systems."

C. Install wall-mounted equipment, with tops of cabinets not more than 78-inches above finished floor, except FAA units, which shall be mounted 56-inches above the finished floor to the bottom of its enclosure.

1. Comply with requirements for seismic-restraint devices specified in Section 270548.16 "Seismic Controls for Communications Systems."

D. Manual Fire Alarm Pull Stations:

1. Install manual fire alarm pull stations in normal path of egress within 5’-0” of exit doorway.
2. Mount manual fire alarm pull station on background of contrasting color.
3. Operable part of manual fire alarm pull station must be between 42- and 48-inches above floor level. Devices must be mounted at same height unless otherwise indicated.

E. Smoke- and Heat-Detector Spacing:

1. Comply with "Smoke-Sensing Fire Detectors" section in "Initiating Devices" chapter in NFPA 72, for smoke-detector spacing.
2. Comply with "Heat-Sensing Fire Detectors" section in "Initiating Devices" chapter in NFPA 72, for heat-detector spacing.
3. Smooth ceiling spacing must not exceed the rating of the detector.

4. Spacing of detectors for irregular areas, for irregular ceiling construction, and for high ceiling areas must be determined in accordance with Annex A or Annex B in NFPA 72.
5. HVAC: Locate detectors not closer than 36-inches from air-supply diffuser or return-air opening.
6. Lighting Fixtures: Locate detectors not closer than 12-inches from lighting fixture and not directly above pendant mounted or indirect lighting.

F. Install cover on each smoke detector that is not placed in service during construction. Cover must remain in place except during system testing. Remove cover prior to system turnover.

G. Duct Smoke Detectors: Comply with NFPA 72 and NFPA 90A. Install sampling tubes so they extend full width of duct. Tubes more than 36-inches long must be supported at both ends.

1. Do not install smoke detector in duct smoke-detector housing during construction. Install detector only during system testing and prior to system turnover.
2. Verify that each unit is listed for the complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
3. Install supply-air smoke detectors at a suitable location in the duct on the downstream side of filters (when present).
4. Install return-air smoke detectors at a suitable location in the duct prior to exhausting from the building or being diluted by outside air.
5. Where possible locate detectors after bends or inlets, which will create turbulence, at, approximately six duct widths downstream from the source of the turbulence. Carefully review the detector manufacturer’s installation instructions and consult with the factory representative for additional direction.
6. Install sampling tubes so they extend the full width of the duct.

H. Remote Status and Alarm Indicators: Install in visible location near each smoke detector, sprinkler water-flow switch, and valve-tamper switch that is not readily visible from normal viewing position.

I. Audible Alarm-Indicating Devices: Install wall-mounted devices not less than 6-inches below ceiling. Install devices on flush-mounted back boxes with device-operating mechanism concealed behind grille. Install devices at same height unless otherwise indicated.

J. Visible Alarm-Indicating Devices: Install wall-mounted devices adjacent to audible notification device and at least 6-inches below ceiling. Install devices at same height unless otherwise indicated.

K. Ceiling-Mounted Voice/Tone Notification Speakers: Devices installed in a ceiling grid shall be recessed and positioned at the center of the ceiling tile. Corridor devices shall be mounted in a straight row, unless otherwise indicated.

L. Device Location-Indicating Lights: Locate in public space near device they monitor.

M. Smoke Dampers: Provide 120 VAC, 24 VAC, or 24 VDC power, whichever is required, and associated initiating devices and control devices. Provide fire alarm system control as indicated on the Fire Alarm Operations Matrix shown on the drawings.

N. Additionally, this contractor shall coordinate the connection of the smoke damper circuit through a BAS control relay (provided by temperature control contractor), which shall close the damper (open its circuit) whenever its associated air-handling unit is shut-down by the BAS.

O. Door Hold-Opens and Sliding/Coiling Fire Doors/Shutters. Provide 120 VAC, 24 VAC, or 24 VDC power, whichever is required, and associated initiating devices and control devices. Prior to bidding, this contractor shall coordinate exact requirements with fire alarm contractor, electrical subcontractors, general contractor, and the contractors furnishing the door hold-opens and fire doors. Provide complete interface with the fire alarm system as required and as indicated on the Fire Alarm Sequence of Operations (Operations Matrix included on the drawings).

3.3 ELECTRICAL CONNECTIONS

A. Connect wiring in accordance with Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

B. Ground equipment in accordance with Section 260526 "Grounding and Bonding for Electrical Systems."

C. Install electrical devices furnished by manufacturer, but not factory mounted, in accordance with the CEC and NECA 1.

D. Install nameplate for each electrical connection, indicating electrical equipment designation and circuit number feeding connection.

1. Nameplate must be laminated acrylic or melamine plastic signs, as specified in Section 260553 "Identification for Electrical Systems."
2. Nameplate must be laminated acrylic or melamine plastic signs with black background and engraved white letters at least 1/2-inch high.

3.4 CONTROL CONNECTIONS

A. Install control and electrical power wiring to field-mounted control devices.

B. Install nameplate for each control connection, indicating field control panel designation and I/O control designation feeding connection.

3.5 INSTALLATION OF WIRE AND CABLE

A. Install wiring according to the following:

1. NECA 1.
2. TIA/EIA 568-A.

B. General Requirements:

1. Install cables within raceways per Division 26, except above accessible ceilings where open-cable installation is allowed, provided all installation methods are strictly followed.
2. Install plenum cable in environmental air spaces, including plenum ceilings.
3. Install all cabling within raceways in areas with exposed structure.
4. Terminate conductors; no cable shall contain unterminated elements. Make terminations only at outlets and terminals.
5. Splices, Taps, and Terminations: Arrange on numbered terminal strips in junction, pull, and junction boxes; and terminal cabinets. Cables may not be spliced.
6. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii.
7. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
8. Cold-Weather Installation: Bring cable to room temperature before de-reeling. Heat lamps shall not be used.

C. System devices and wiring shall be installed in accordance with CEC 110.3(B), 300.11(A), 300.15, and 300.16, including conductors that are terminated, spliced, or interrupted—in which case a junction box or conduit body is required. Wherever a device is mounted in or onto an accessible ceiling, provide a recessed junction box supported by the ceiling grid—not the ceiling tile. The box shall be securely fastened to steel bracing that is designed/listed/labeled to bridge the ceiling grid. Boxes must be provided with cable protection bushings at all open knockouts (CEC 300.16). Cables and raceways shall be supported neither by ceiling grids nor their support wires. Listed and labeled equipment, including all system devices, shall be installed in accordance with instructions included in the listing or labeling (CEC 110.3(B)).

D. Devices containing end-of-line resistors shall be appropriately labeled. Devices should be labeled such that removal of the device is not required to identify the EOL device.

E. Wiring Method: Install wiring in metal raceway according to Division 26 Section “Raceway and Boxes for Electrical Systems.”

1. Fire alarm circuits and equipment control wiring associated with the fire alarm system shall be installed in a dedicated raceway system. This system shall not be used for any other wire or cable
2. Cables and raceways used for fire alarm circuits, and equipment control wiring associated with the fire alarm system, may not contain any other wire or cable.

3. Fire-Rated Cables: Use of 2-hour fire-rated fire alarm cables, CEC Types MI and CI, is permitted.
4. Signaling Line Circuits (SLC): Power-limited fire alarm cables may be installed in the same cable or raceway as signaling line circuits.
5. All systems and system components listed to UL864 Control Units for Fire Protective Signaling Systems may be installed within a common conduit raceway system, in accordance with the manufacturer's recommendations. System components not listed to the UL864 standard shall utilize a separate conduit raceway system for each of the sub-systems.
6. Any low-voltage copper wiring that leaves the protection of a building shall be provided with a compatible UL 497B listed transient protection devices where the circuit leaves the building and where it enters the next building.
7. Fiber Optic Cable: Only glass filament cable permitted. Plastic filament fiber optic cables are not acceptable. LC connectors shall be used at all equipment terminations.

F. Wiring within Enclosures: Separate power-limited and non-power-limited conductors as recommended by manufacturer. Install conductors parallel with or at right angles to sides and back of the enclosure. Bundle, lace, and train conductors to terminal points with no excess. Connect conductors that are terminated, spliced, or interrupted in any enclosure associated with the fire alarm system to terminal blocks. Mark each terminal according to the system's wiring diagrams. Make all connections with approved crimp-on terminal spade lugs, pressure-type terminal blocks, or plug connectors.

G. Cables and raceways shall be supported neither by ceiling grids nor their support wires.

H. Cable Taps: Use numbered terminal strips in junction, pull, and outlet boxes, cabinets, or equipment enclosures where circuit connections are made.

I. Color-Coding: Color-code fire alarm conductors differently from the normal building power wiring. Use one color-code for alarm circuit wiring and a different color-code for supervisory circuits. Color-code audible alarm-indicating circuits differently from alarm-initiating circuits. Use different colors for visible alarm-indicating devices. Paint fire alarm system junction boxes and covers red.

J. Wiring to Remote Alarm Transmitting Device: 1-inch conduit between the FACU and the transmitter. Install number of conductors and electrical supervision for connecting wiring as needed to suit monitoring function.

3.6 CONNECTIONS

A. For fire-protection systems related to doors in fire-rated walls and partitions and to doors in smoke partitions, comply with requirements in Section 087100 "Door Hardware." Connect hardware and devices to fire alarm system.

1. Verify that hardware and devices are listed for use with installed fire alarm system before making connections.

B. Make addressable connections with supervised interface device to the following devices and systems. Install interface device less than 36-inch from device controlled. Make addressable confirmation connection when such feedback is available at device or system being controlled.

Coordinate list below with "Addressable Fire alarm System" Article.

1. Magnetically held-open doors.
2. Supervisory connections at elevator shunt-trip breaker (for monitoring).

3.7 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

B. Install framed instructions in location visible from FACU.

3.8 GROUNDING

A. Ground FACU and associated circuits in accordance with Section 260526 "Grounding and Bonding for Electrical Systems."

B. Ground shielded cables at control panel location only. Insulate shield at device location. Ground cable shields and equipment according to system manufacturer's written instructions to eliminate shock hazard and to minimize, to the greatest extent possible, ground loops, common-mode returns, noise pickup, cross talk, and other impairments.

C. For audio circuits, minimize, to the greatest extent possible, ground loops, common-mode returns, noise pickup, cross talk, and other impairments. Provide 5Ω ground at main equipment location. Measure, record, and report ground resistance in the Maintenance Manuals.

3.9 FIELD QUALITY CONTROL

A. Contractor shall confirm whether field tests must be witnessed by the AHJ prior to performing tests.

1. Start-up and certification testing shall be performed by a NICET certified fire alarm technician. State name of technician and certification number on all test reports.

B. Administrant for Tests and Inspections:

Retain one of first four subparagraphs below to specify who administers and performs tests and inspections.

1. Engage qualified testing agency to administer and perform tests and inspections.

2. Engage factory-authorized service representative to administer and perform tests and inspections on components, assemblies, and equipment installations, including connections.
3. Administer and perform tests and inspections with assistance of factory-authorized service representative.

C. Tests and Inspections:

1. Testing shall be provided in accordance with NFPA – Chapter 7. Provide reports and documentation per section 7-5.

2. Visual Inspection: Conduct visual inspection prior to testing.

   a. Inspection must be based on completed record Drawings and system documentation that is required by "Completion Documents, Preparation" table in "Documentation" section of "Fundamentals" chapter in NFPA 72.
   b. Comply with "Visual Inspection Frequencies" table in "Inspection" section of "Inspection, Testing and Maintenance" chapter in NFPA 72; retain "Initial/Reacceptance" column and list only installed components.

3. System Testing: Comply with "Test Methods" table in "Testing" section of "Inspection, Testing and Maintenance" chapter in NFPA 72.
4. Test audible appliances for public operating mode in accordance with manufacturer's written instructions. Perform test using portable sound-level meter complying with Type 2 requirements in ASA S1.4 Part 1/IEC 61672-1.
5. Test audible appliances for private operating mode in accordance with manufacturer's written instructions.
6. Test and record voice intelligibility and audibility levels throughout each room or space. Wherever sound levels and intelligibility levels fail to meet or exceed code requirements, make all corrections, and describe measures taken to achieve code compliance.
7. Test visible appliances for public operating mode in accordance with manufacturer's written instructions.
8. Factory-authorized service representative must prepare "Fire Alarm System Record of Completion" in "Documentation" section of "Fundamentals" chapter in NFPA 72 and "Inspection and Testing Form" in "Records" section of "Inspection, Testing and Maintenance" chapter in NFPA 72.

D. Reacceptance Testing: Perform reacceptance testing to verify proper operation of added or replaced devices and appliances.

E. Fire alarm system will be considered defective if it does not pass tests and inspections.

F. Prepare test and inspection reports.

G. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

H. Annual Test and Inspection: One year after date of Substantial Completion, test fire alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

3.10 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain fire-alarm system.

1. Train Owner's maintenance personnel on programming equipment for starting up and shutting down, troubleshooting, servicing, and maintaining the system and equipment.
2. Train a minimum of ten (10) employees of Owner.
3. Under this contract, conduct a total of twelve (12) hours (minimum) of on-site training as specified in instructions to Owner’s employees in Division 01 Section “Demonstration and Training.” Training shall be divided into two (2) separate sessions on two (2) separate days if requested by Owner. The first session shall provide two (2) hours of basic training. The second session shall provide eight (8) hours of in-depth training. Coordinate training agenda, dates, and times directly with Owner.
4. Conduct training on installed equipment after acceptance testing.
5. Train on system operation, including manual control of output functions from FACU.
6. Train on testing of system, including logging of system tests, field test of devices, and response to common troubles.
7. Refer to Division 01 Section “Demonstration and Training”, including excluding requirements related to video recording.
8. Allow Owner to record training.

3.11 ADJUSTING

A. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to three (3) visits to Project outside normal occupancy hours for this purpose for each building. Include a minimum of 12 hours of on-site labor designated for this purpose plus all necessary travel time and expenses.

B. Annual Test and Inspection: Through the first year after date of Substantial Completion, test the fire alarm system complying with the testing and visual inspection requirements in NFPA 72. Perform tests and inspections listed for monthly, quarterly, semiannual, and annual periods. Use forms developed for initial tests and inspections.

3.12 MAINTENANCE

A. Maintenance Service: Beginning at Substantial Completion, maintenance service must include 12 months of full maintenance by skilled employees of manufacturer's designated service organization. Include preventive maintenance, repair, or

replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper operation. Parts and supplies must be manufacturer's authorized replacement parts and supplies.

1. Include visual inspections in accordance with "Visual Inspection Frequencies" table in "Testing" paragraph of "Inspection, Testing and Maintenance" chapter in NFPA 72.
2. Perform tests in "Test Methods" table in "Testing" paragraph of "Inspection, Testing and Maintenance" chapter in NFPA 72.
3. Perform tests per "Testing Frequencies" table in "Testing" paragraph of "Inspection, Testing and Maintenance" chapter in NFPA 72.

3.13 SOFTWARE SERVICE AGREEMENT

A. Comply with UL 864.

B. Technical Support: Beginning at Substantial Completion, service agreement must include software support for five (5) years.

C. Upgrade Service: At Substantial Completion, update software to latest version. Install and program software upgrades that become available within five (5) years from date of Substantial Completion. Upgrading software must include operating system and new or revised licenses for using software.

1. Upgrade Notice: At least 30 days to allow Owner to schedule access to system and to upgrade computer equipment if necessary.

END OF SECTION 284600