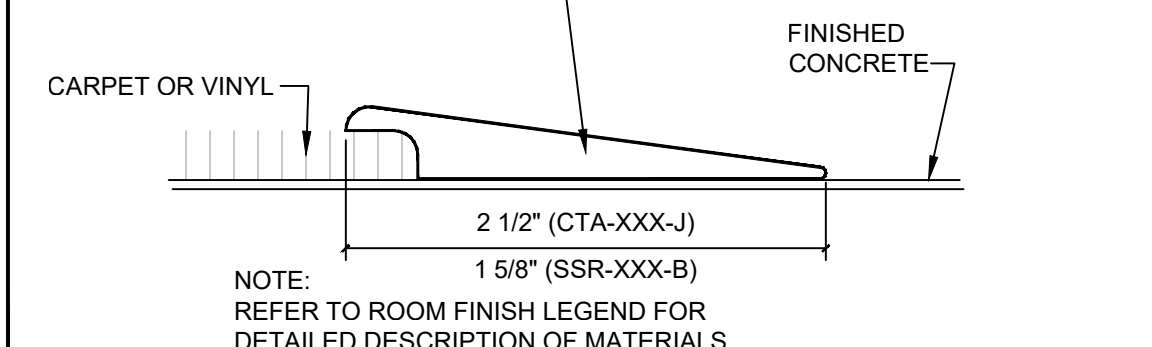
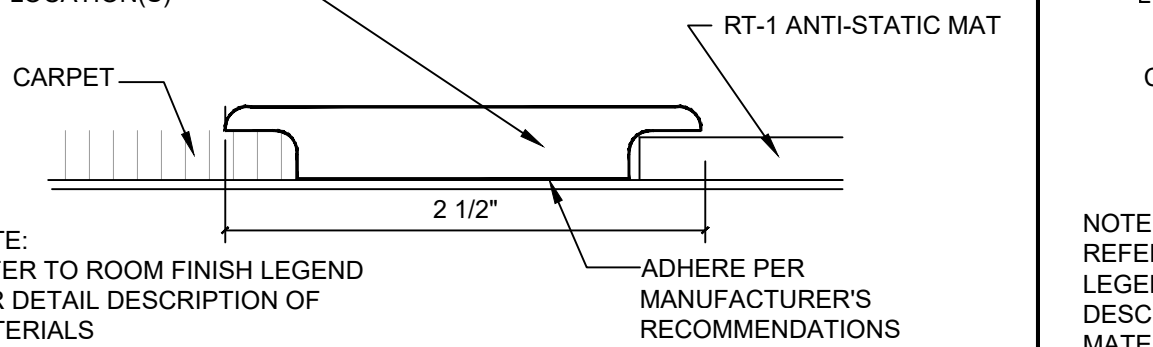
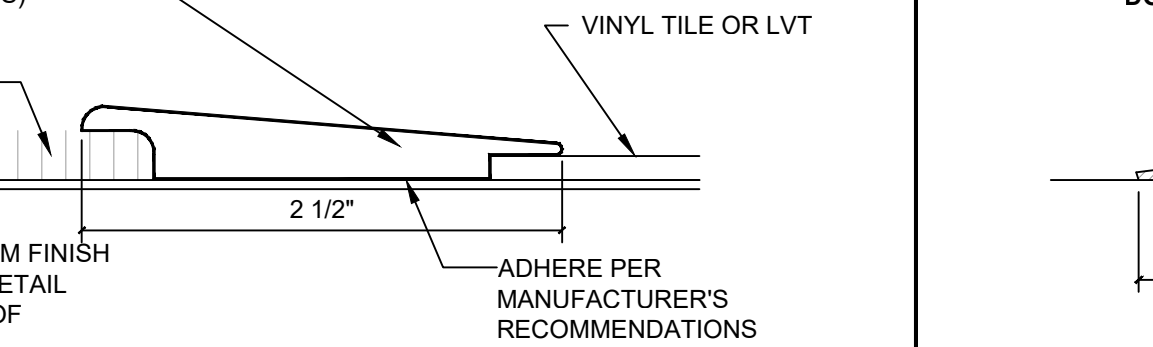
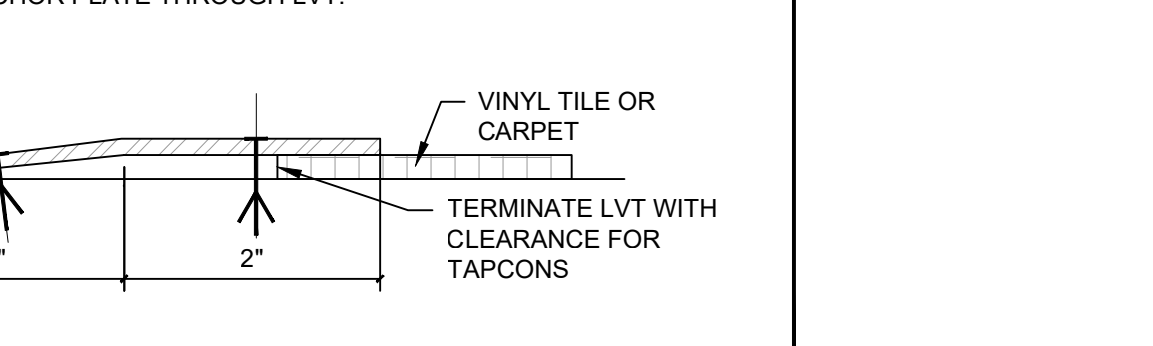
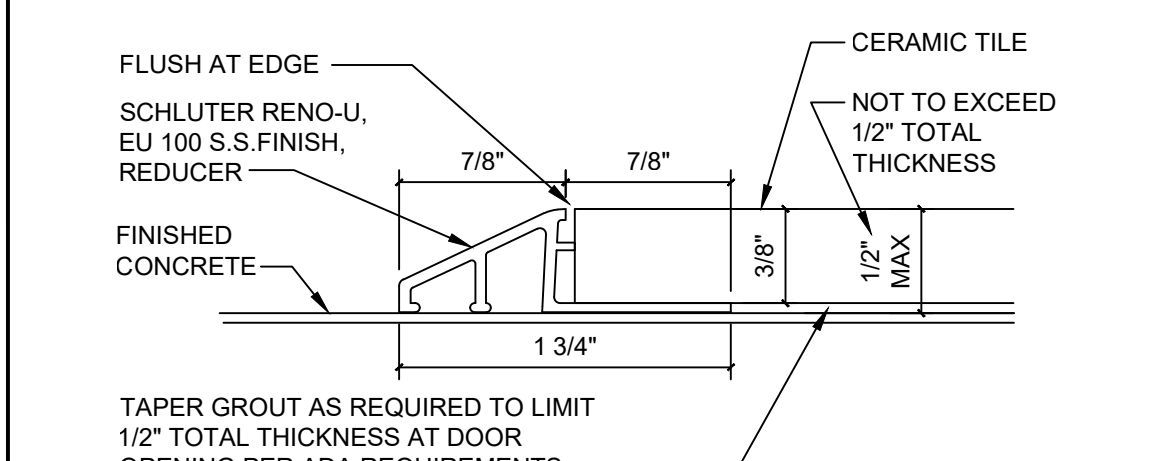
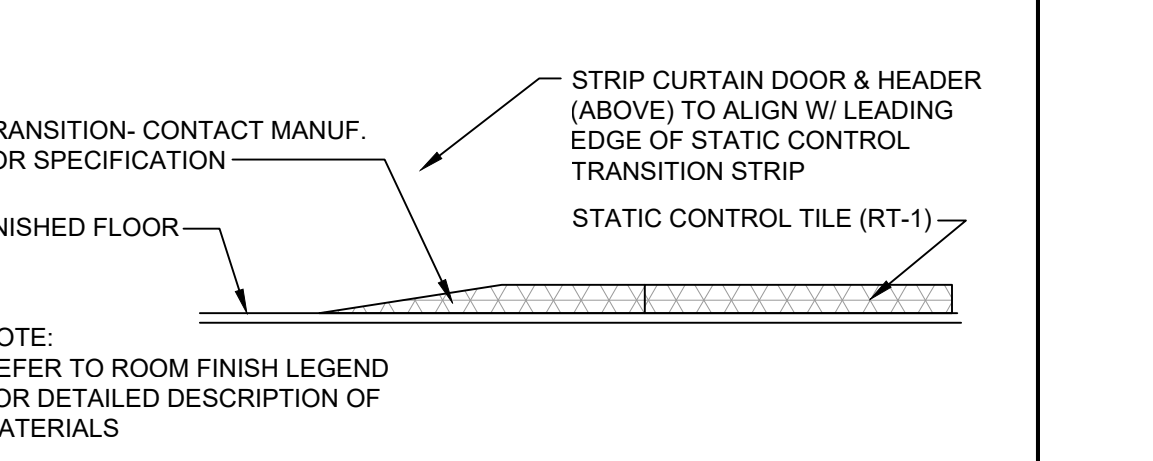
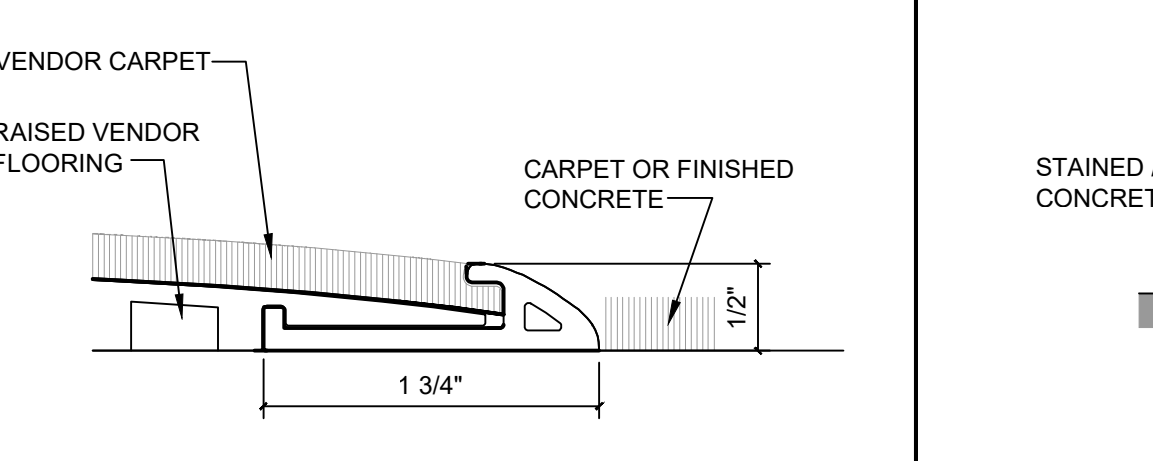
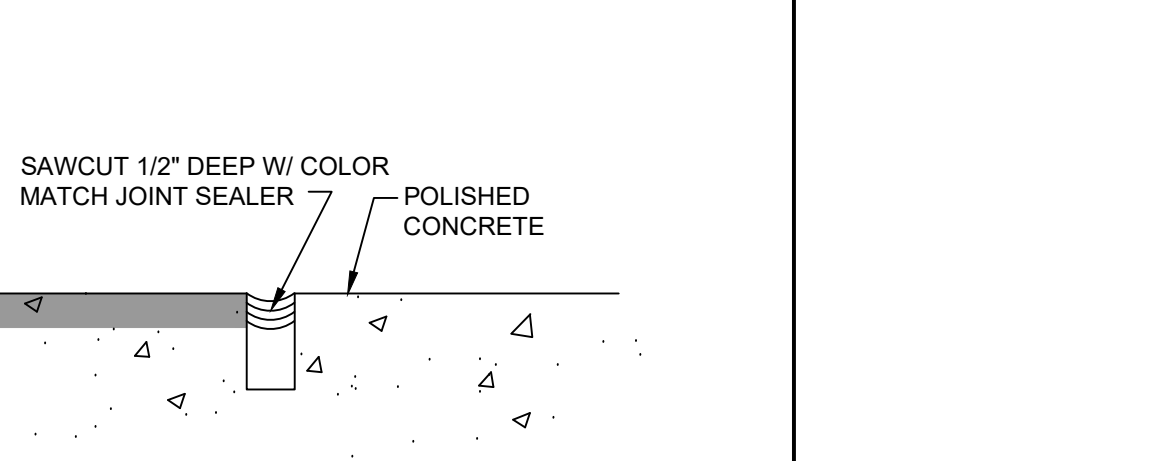


City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

<div>REDUCER(S) JOHNSONITE CTA-40, "BLACK" (STANDARD UNO) JOHNSONITE CTA-130, REFER TO SPEC. PROFILE CTA-XXX-J FOR CARPET TO CONCRETE PROFILE SSR-XXX-B FOR VINYL TO CONCRETE</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>		<div>CARPET TO VINYL REDUCER - JOHNSONITE CTA-40-M, "BLACK" (STANDARD UNO) REFER TO FINISH SCHEDULE FOR LOCATION(S)</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>		<div>CARPET TO VINYL REDUCER - JOHNSONITE CTA-40-H, "BLACK" (STANDARD UNO) JOHNSONITE CTA-38-H, "PEWTER" (SAMSUNG HT VENDOR PAD) REFER TO FINISH SCHEDULE FOR LOCATION(S)</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>		<div>NOTES: -TRANSITION PLATE TO BE: - 8 GA. S.S., #4 ARCHITECTURAL FINISH - #12 x 2" TAP C. @ 6" O.C. COUNTER SUNK. -AT LVT FLOORING INSTALLATIONS, DO NOT ANCHOR PLATE THROUGH LVT.</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>	
1	CARPET / LVT TO CONCRETE	2	CONCRETE TO RT-1	3	LVT TO VINYL / CARPET	4	FLOORING TO CONCRETE @ IMPACT DOORS
<div>FLUSH AT EDGE</div> <div></div> <div>NOTE: TAPER GROUT AS REQUIRED TO LIMIT 1/2" TOTAL THICKNESS AT DOOR OPENING PER ADA REQUIREMENTS</div>		<div>TRANSITION- CONTACT MANUF. FOR SPECIFICATION</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>		<div>VENDOR CARPET</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>		<div>STAINED / DYED CONCRETE</div> <div></div> <div>NOTE: REFER TO ROOM FINISH LEGEND FOR DETAILED DESCRIPTION OF MATERIALS</div>	
5	RESTROOM THRESHOLD	6	RT-1 TRANSITION	7	APPLE VENDOR PAD FLOORING	8	CONCRETE TRANSITION STRIP
SCALE: 1" = 1'-0"		SCALE: 1" = 1'-0"		SCALE: 1" = 1'-0"		SCALE: 1" = 1'-0"	

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

PRCTI20230074

reprise

Architecture, Inc.
12400 Portland Avenue South
Burien, WA 98148
Office: (206) 835-4002
Fax: (206) 835-4003

PROJECT NO: 23014
DESIGN BY: JMH
CHECKED BY: JMH

22031493
REGISTERED
ARCHITECT
COREY ALLAN ENGLAND
STATE OF WASHINGTON
01/13/2023
Reprise Design, Inc.
Washington Registered Architectural Firm
603 204 396

BEST BUY

#0366

STORE NAME: PUYALLUP

ADDRESS:
4102 S MERIDIAN
STE A
PUYALLUP, WA 98373

SQUARE FOOTAGE CALCULATIONS

SALES / RETAIL:	39,284 - SF
WAREHOUSE / STORAGE:	4,003 - SF
WC BAY:	1,109 - SF
SUPPORT ROOMS / REMAINING:	943 - SF
TOTAL:	45,339 - SF

FY24 RESET 1

Issue Date: 01/13/2023

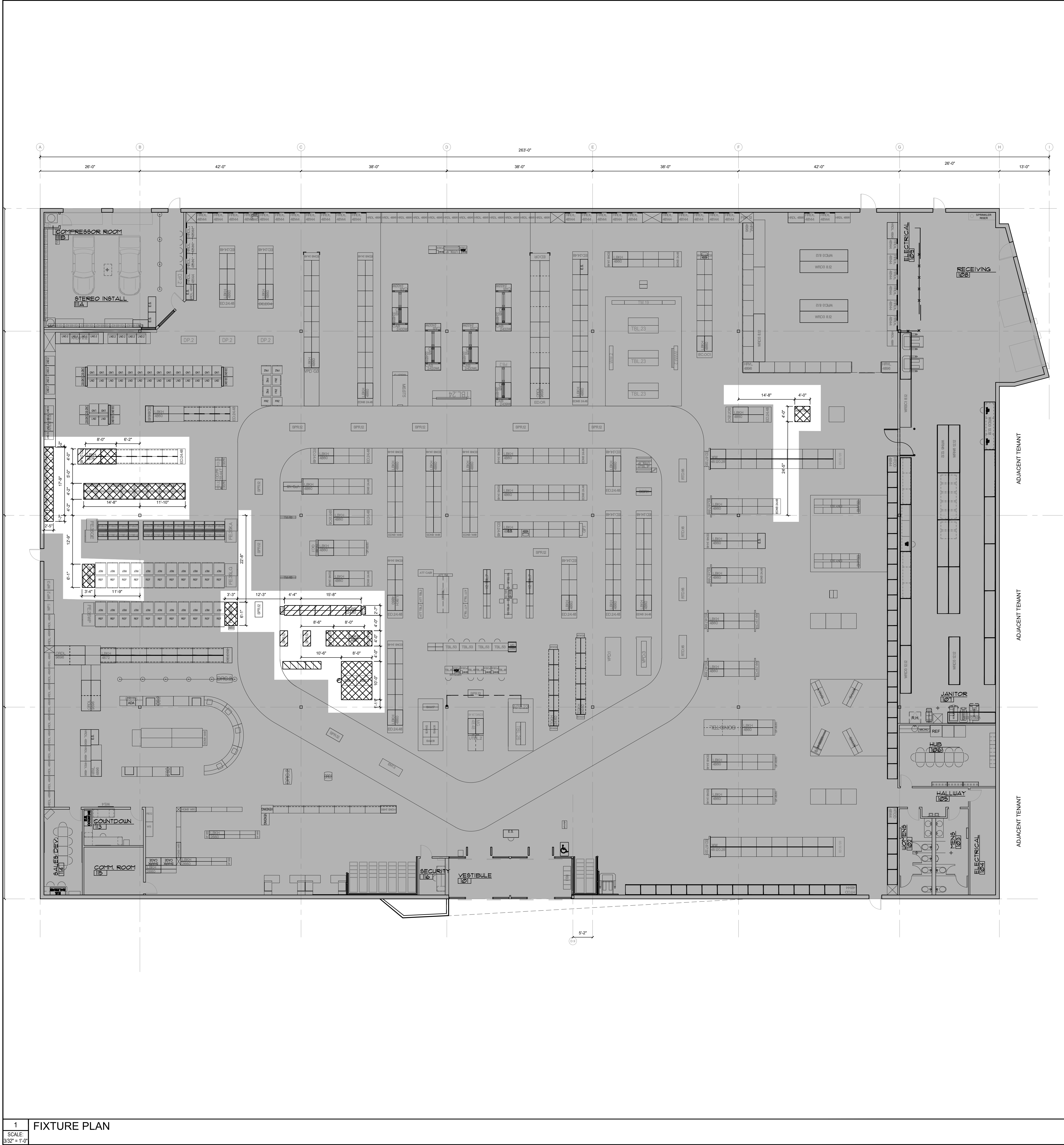
REVISION INFORMATION

CONCEPT 45K C5

Drawing

FINISH
FLOOR DETAILS

A3.1



1
SCALE:
3/32" = 1'-0"

1
FIXTURE PLAN

GENERAL NOTES

1. ALL FIXTURES, SHELVING AND STANDARDS BELOW ARE TO BE INSTALLED BY FIXTURE CONTRACTORS.
2. GENERAL CONTRACTORS TO PROVIDE BLOCKING FOR ALL STANDARDS.
3. ALL FIXTURE DIMENSIONS ARE MEASURED FROM KICK PLATE TO KICK PLATE.

REMODELGC

ID	DESCRIPTION
AMZ.TBL2*	VENDOR PROVIDED DISPLAY - 5'-11" HIGH X 4'-0" WIDE X 4'-0" DEEP
FE.36SS*	VENDOR PROVIDED DISPLAY - 6'-7" HIGH X 6'-1" WIDE X 3'-3" DEEP. ANCHORED TO FLOOR
LBKH 4878*	4878 LOW GONDOLA KEYHOLE: 6'-6" HIGH X 4'-0" WIDE X 4'-0" DEEP
DOD 2.1W	DOUBLE OVEN DISPLAT WALL UNIT 29.5 X96 X 33

REMODELBBY

ID	DESCRIPTION
CDWD 2.1	COOKTOP DISHWASHER DOGHOUSE: 4'-0" HIGH X 6'-8" WIDE X 4'-2" DEEP
EBK.1	EBIKE PLATFORM: 1'-11" HIGH X 4'-0" WIDE X 2'-7" DEEP
ED 2448	END DECK -60" HIGH X 48" WIDE X 24" DEEP
LBKH 4860	4860 LOW GONDOLA KEYHOLE: 5'-0" HIGH X 4'-0" WIDE X 4'-0" DEEP
SPR.12	DISPLAY SHIPPER: 24" X 60" X 48"
TGNS 2460	T-GONDOLA - NONSUPPORTED: 2'-0" DEEP X 4'-0" WIDE X 5'-0" HIGH

HATCH LEGEND

	MOVE EXISTING FIXTURE TO NEW LOCATION
	NEW FIXTURE
	EXISTING FIXTURE WITH MODIFICATION
(NO HATCH)	FIXTURE TO REMAIN IN EXISTING LOCATION

AREA OF WORK HATCH
LEGEND

	EXISTING - NO WORK
(NO HATCH)	AREA OF WORK

reprise DESIGN

Architecture, Inc.
12400 Portland Avenue South
Burienville, MN 55337
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Fax: (652) 252-4003

PROJECT NO: 23014
DRAWN BY: JMH
CHECKED BY: JMH

22031493
REGISTERED ARCHITECT
COREY ALLAN ENGLUND
STATE OF WASHINGTON
01/13/2023
Reprise Design, Inc.
Washington Registered Architectural Firm
603 204 396

BEST BUY
#0366
STORE NAME: PUYALLUP
ADDRESS:
4102 S MERIDIAN
STE A
PUYALLUP, WA 98373

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SUPPORT ROOMS / REMAINING:	943 - SF
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FY24 RESET 1
Issue Date: 01/13/2023

REVISION INFORMATION	
X	X

CONCEPT 45K C5

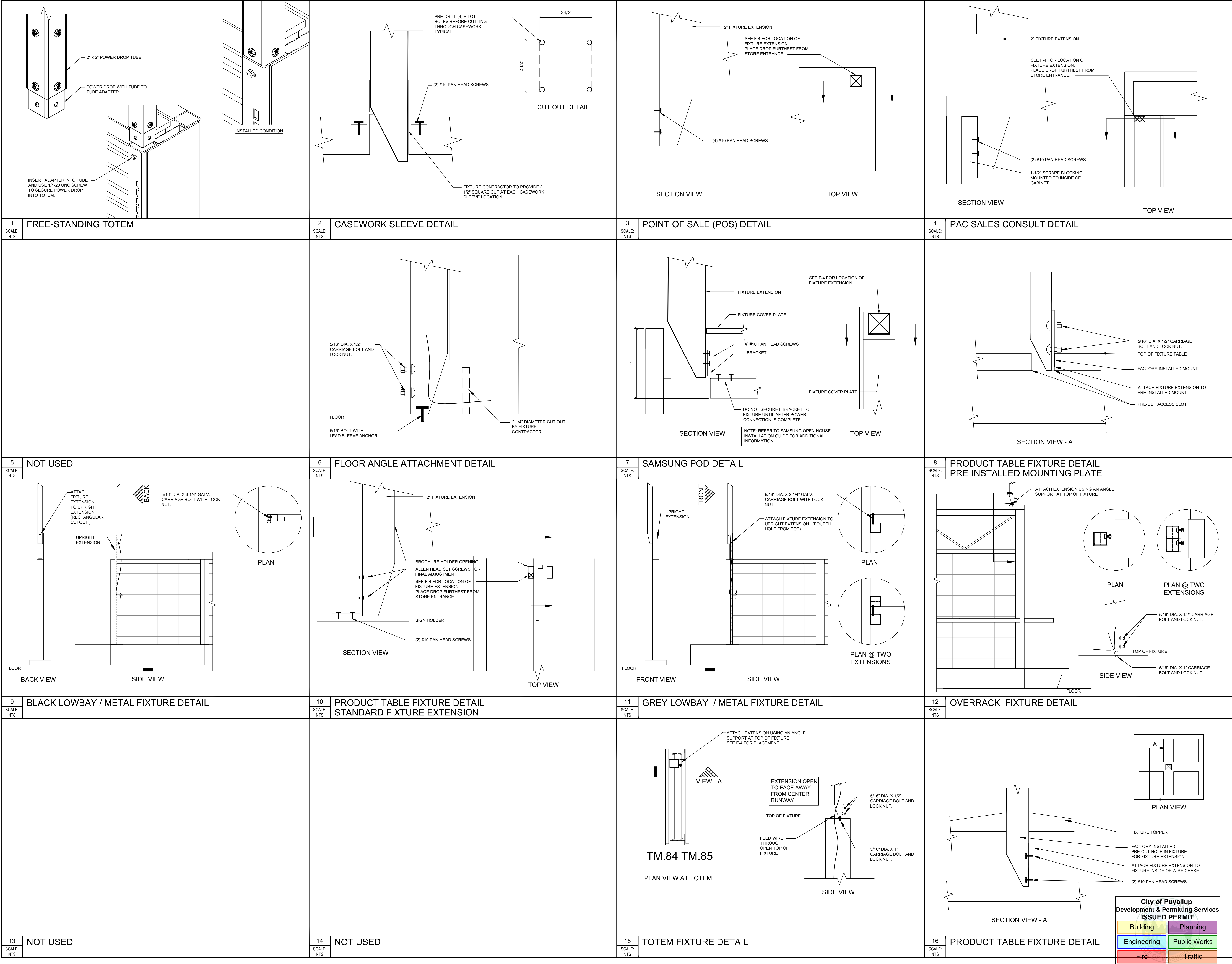
Drawing
FIXTURE PLAN

F1.0

City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
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PRCTI20230074



reprise

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FY24 RESET 1
Issue Date: 01/13/2023

REVISION INFORMATION

CONCEPT 45K C5

Drawing
FIXTURE
EXTENSION DETAILS

F5.0



BEST BUY
STORE #0366
4102 S MERIDIAN
STE A
PUYALLUP, WA 98373

INSTALLATION CONTRACTOR MUST VERIFY THAT ALL PARTS AND PIECES INSTALLED MATCH THOSE SHOWN ON THESE DRAWINGS. INCLUDING BRACED-FRAME CONFIGURATION, DIMENSIONS, BASE PLATE AND HOLE SIZES. ANY DISCREPANCIES MUST BE IMMEDIATELY REPORTED, IN WRITING TO ADVANCED STRUCTURAL TECHNOLOGIES.

STRUCTURAL REQUIREMENTS FOR:
• STEEL STORAGE RACK/FIXTURE INSTALLATION
(OVER 5'-9" TALL)

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
S000	TITLE SHEET
S-AMZ.3	6'-0" HIGH AMAZON PLAY TABLE
S-DOC.1A	DOUBLE OVEN CABINET DISPLAY - WALL SUPPORTED
S-OTR.3	LA DARLING 5'-0" LOWBAY GONDOLA RACK WITH 12" OR 18" EXTENDER
S-VPD.46	6'- 7" HIGH SAMSUNG 3PC ENDCAP DISPLAY
SF-1	FIXTURE PLAN

STRUCTURAL NOTES

I. DESIGN DATA

A. BUILDING CODES/DESIGN STANDARDS

1. 2018 INTERNATIONAL BUILDING CODE.

2. RMI SPECIFICATION FOR THE DESIGN, TESTING AND UTILIZATION OF INDUSTRIAL STEEL STORAGE RACKS.

3. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

4. AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

B. DESIGN LOADS/DESIGN CRITERIA

1. EARTHQUAKE DESIGN DATA

a. SEISMIC IMPORTANCE FACTOR, I ----- 1.5

b. RESPONSE MODIFICATION FACTOR, R ----- 4.0

c. MAPPED SPECTRAL RESPONSE ACCELERATIONS

S_s ----- 1.261, S₁ ----- 0.435

d. SPECTRAL RESPONSE COEFFICIENTS

S_{DS} ----- 1.009, S₀₁ ----- 0.541

e. DESIGN SITE CLASS ----- D (ASSUMED)

f. OCCUPANCY CATEGORY ----- II

g. SEISMIC DESIGN CATEGORY ----- D

2. RACK LOADS

SEE INDIVIDUAL RACK SHEETS FOR RACK STORAGE CAPACITIES.

II. GENERAL NOTES

1. THE INSTALLATION CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE STEEL STORAGE RACK SUPPLIER'S SHOP AND ASSEMBLY DRAWINGS. THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE ADDITIONAL INSTALLATION REQUIREMENTS TO ENSURE THAT THE STEEL STORAGE RACKS PERFORM ADEQUATELY IN THE EVENT OF THE DESIGN EARTHQUAKE. WHEN A CONFLICT OCCURS BETWEEN THE SUPPLIER'S SHOP/ASSEMBLY DRAWINGS AND THE STRUCTURAL DRAWINGS, THE STRUCTURAL DRAWINGS SHALL TAKE PRIORITY AND THE ENGINEER NOTIFIED IMMEDIATELY.

2. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.

3. IT SHALL BE THE INSTALLATION CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE AND TO CROSS CHECK ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE INSTALLATION CONTRACTOR COMMENCING WORK.

4. THE CLEAR SPACE BELOW SPRINKLERS SHALL BE A MINIMUM OF 18 INCHES BETWEEN THE TOP OF THE STORED MATERIAL AND THE SPRINKLER DEFLECTOR. THE INSTALLATION CONTRACTOR SHALL VERIFY THIS CLEARANCE REQUIREMENT WITH THE LOCAL BUILDING OFFICIAL AND NOTIFY THE ENGINEER AND BEST BUY STORES, L.P. IN WRITING IF MORE CLEARANCE IS REQUIRED.

III. SLAB ON GRADE / SOILS

1. SLAB ON GRADE WAS ANALYZED ASSUMING A MINIMUM THICKNESS OF 4 INCHES AND A CONCRETE COMPRESSIVE STRENGTH, f_c = 2500 PSI

2. THE SLAB ON GRADE WAS ANALYZED USING A MODULUS OF SUBGRADE REACTION, k = 60 pci

3. AN ALLOWABLE SOIL BEARING PRESSURE OF 500 PSF WAS USED IN THE ANALYSIS OF THE RACK BASE.

IV. STEEL STORAGE RACKS

A. COLD-FORMED STEEL MATERIAL PROPERTIES (THE RACK SUPPLIER SHALL PROVIDE WRITTEN VERIFICATION TO ENGINEER THAT ALL MATERIAL PROVIDED MEETS THE FOLLOWING SPECIFICATIONS):

1. STEEL PROPERTIES:

	FY, PSI	ASTM
a. WAREHOUSE RACK MEMBERS -----	50,000	A572
b. GONDOLA OVERRACK MEMBERS / FIT WALL STEEL TUBES -----	36,000	A36
c. BASE PLATES -----	36,000	A36
d. BOLTS, UNO -----	(Fu = 45,000)	A307
e. WELDING ELECTRODES -----	E70XX	A233
f. EXPANSION BOLTS (ANCHORS) - HILTI KWIK-BOLT T22 CARBON STEEL EXPANSION ANCHOR - SEE INDIVIDUAL RACK SHEETS FOR ANCHOR DIAMETER, EMBEDMENT AND LOCATIONS (ANCHOR IS APPROVED PER INTERNATIONAL CODE COUNCIL REPORT #ESR-4266)		
g. SCREW ANCHORS - HILTI KWIK HUS-EZ (KH-EZ) CARBON STEEL SCREW ANCHOR - SEE INDIVIDUAL RACKS SHEETS FOR ANCHOR DIAMETER, EMBEDMENT AND LOCATIONS (ANCHOR IS APPROVED PER INTERNATIONAL CODE COUNCIL REPORT #ESR-3027)		
h. STEEL-TO-STEEL SELF-DRILLING SCREWS - #10 & #12 ITW BUILDEX SELF-DRILLING SCREWS (SCREW IS APPROVED PER INTERNATIONAL CODE COUNCIL REPORT #ESR-1976)		

B. INSTALLATION

1. THE STEEL STORAGE RACKS ARE PREFABRICATED, THEN ASSEMBLED AT THE SITE. ALL WELDING IS TO BE PERFORMED AT THE SUPPLIER'S SHOP AND NO FIELD WELDING WILL BE ALLOWED.

2. EXPANSION ANCHOR INSTALLATION.

a. DRILL 2 3/4" DEEP HOLE IN SLAB USING A CARBIDE TIPPED DRILL BIT, COMPLYING WITH ANSI B212.15-1994. HOLE DIAMETER MUST BE EQUAL TO THAT OF THE ANCHOR. DO NOT DRILL THROUGH SLAB.

b. DRIVE THE ANCHOR INTO THE HOLE USING A HAMMER. A MINIMUM OF (4) THREADS MUST BE BELOW THE FASTENING SURFACE (TOP OF BASE PLATE) PRIOR TO APPLYING INSTALLATION TORQUE.

c. TIGHTEN THE NUT TO PER HILTI RECOMMENDATIONS. (30 ft-lbs FOR 3/8" Ø BOLTS, 50 ft-lbs FOR 1/2" Ø BOLTS)

d. ALL ANCHORAGE IS DESIGNED ASSUMING CRACKED CONCRETE AND ANCHORS ARE PRE-QUALIFIED VIA TESTS DESCRIBED IN ACI 308.2 - QUALIFICATIONS OF POST-INSTALLED ANCHORS IN CONCRETE.

3. RACKS SHALL BE INSTALLED PLUMB, MAXIMUM TOLERANCE FROM THE VERTICAL IS 0.5 INCHES IN 10 FEET OF RACK HEIGHT.

4. RACKS ARE FREE STANDING AND BOLTED TO SLAB ON GRADE. RACKS SHALL NOT BE BRACED AGAINST BUILDING STRUCTURE. PROVIDE A MIN. 2" CLEARANCE BETWEEN RACK AND STRUCTURE.

5. THE OWNER IS RESPONSIBLE FOR DISPLAYING IN ONE OR MORE CONSPICUOUS LOCATIONS A PERMANET PLAQUE(S). EACH PLAQUE SHALL HAVE AN AREA OF NOT LESS THAT 50 SQUARE INCHES. PLAQUE SHALL SHOW IN CLEAR, LEGIBLE PRINT (A) THE MAXIMUM PERMISSABLE UNIT LOAD AND/OR MAXIMUM UNIFORMLY DISTRIBUTED LOAD PER LEVEL (B) THE AVERAGE UNIT LOAD IF APPLICABLE AND (C) MAXIMUM TOTAL LOAD PER BAY. STORAGE LEVELS HAVING MULTIPLE STACKING OF UNIT LOADS SHALL BE ALSO IDENTIFIED. IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT THE RACK SYSTEM IS NOT ALTERED SO THAT THE PLAQUE INFORMATION IS INVALIDATED.

SPECIAL INSPECTION PROGRAM

A SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER (OR THE OWNER'S AGENT) TO PROVIDE PERIODIC SPECIAL INSPECTIONS FOR THE FOLLOWING PORTIONS OF RACK INSTALLATION. THE SPECIAL INSPECTOR SHALL DOCUMENT THEIR INSPECTIONS AND SUBMIT WRITTEN REPORTS TO THE ENGINEER, BEST BUY STORES, L.P. AND THE BUILDING OFFICIAL.

1. ANCHOR BOLT INSTALLATION (REQUIRED PER ICC EVALUATION REPORTS #ESR-3027 AND #ESR-4266):

THE INSPECTOR SHALL BE ON SITE TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

TESTING FREQUENCY:

RANDOM INSPECTION OF MINIMUM 15% OF ANCHORS.

City of Puyallup
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Building

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Engineering

Public Works

Fire

Traffic

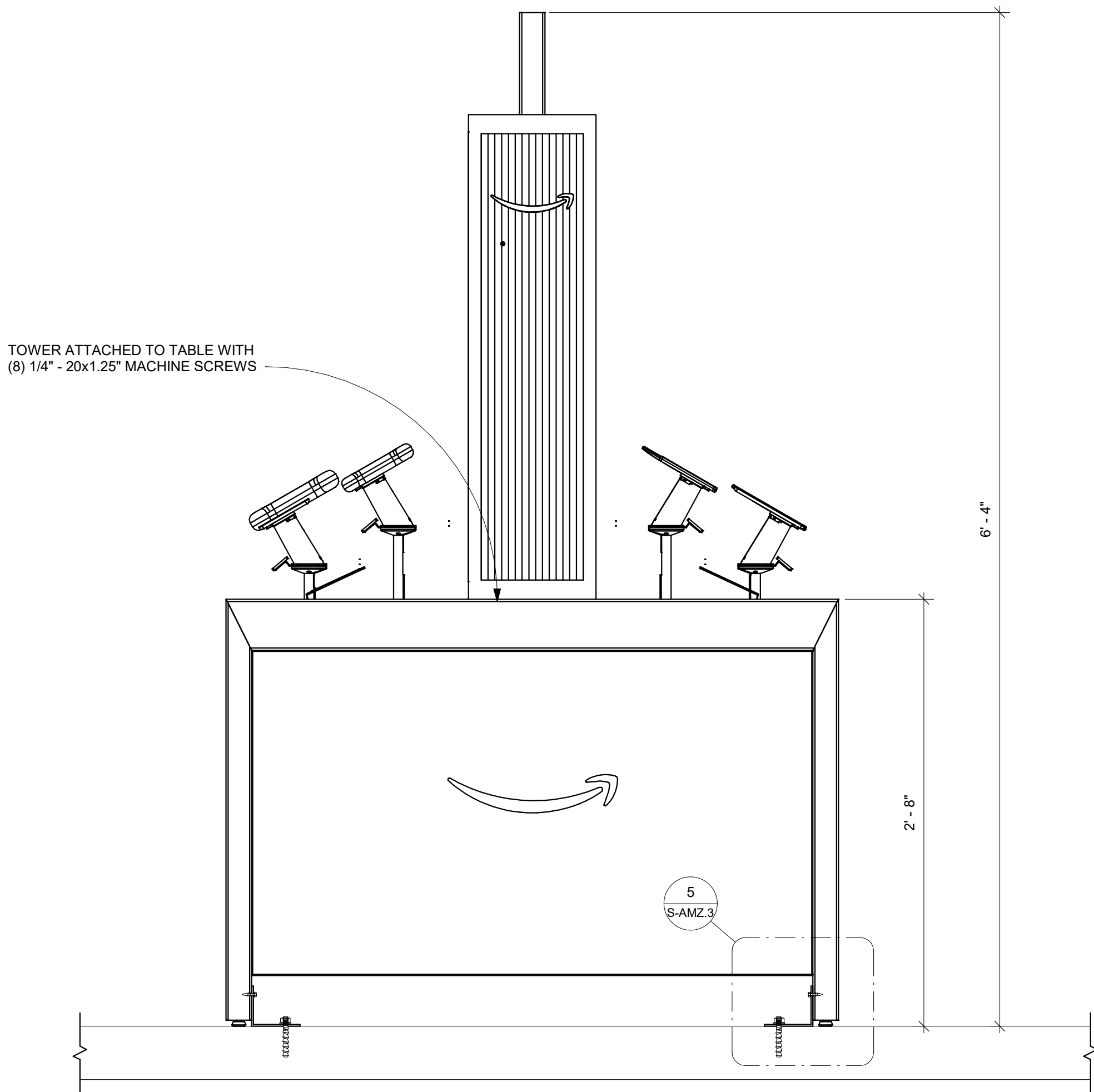
SEE FIXTURE PLAN (SF-1) FOR
LOCATION OF FIXTURES

S000

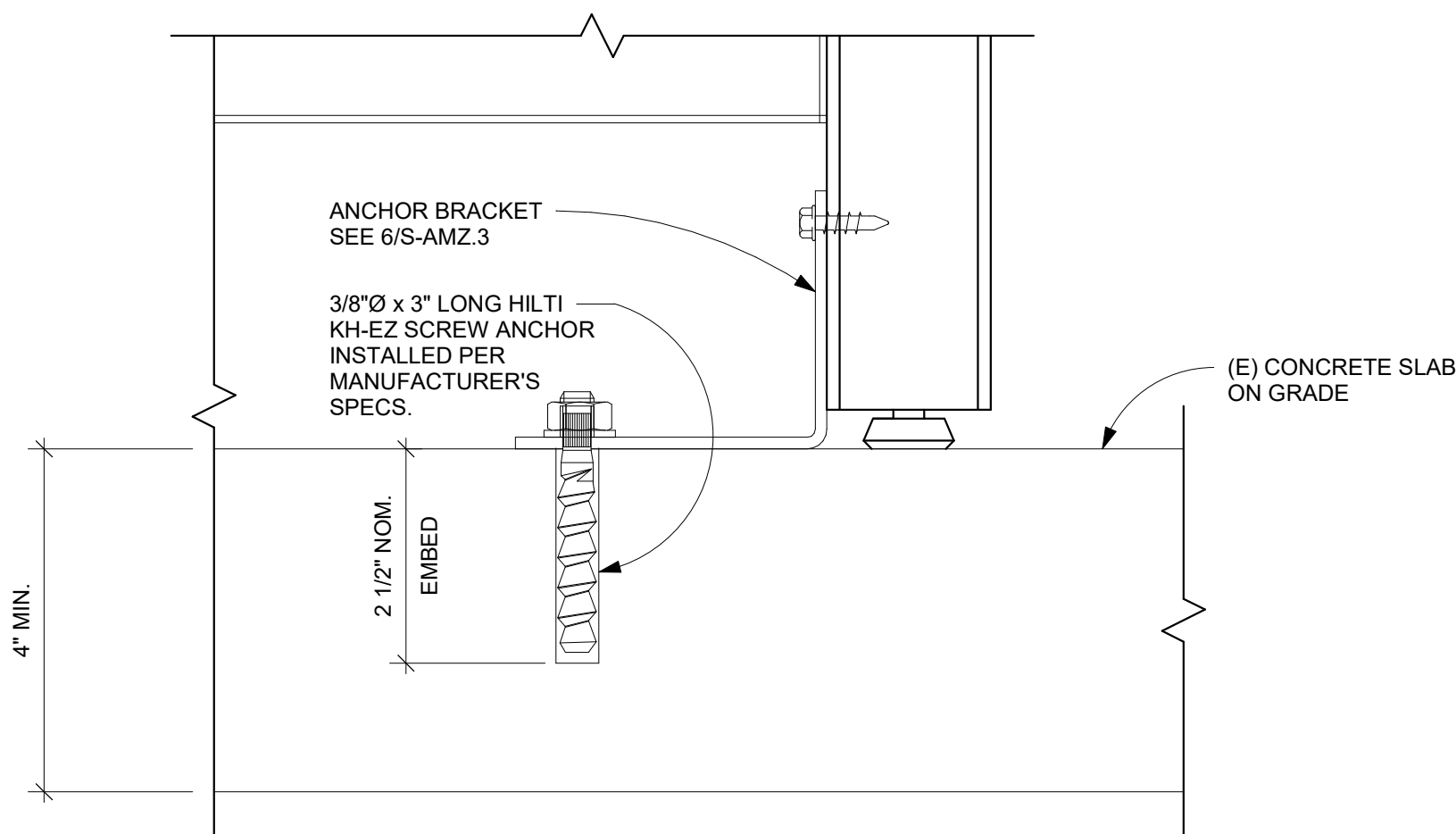
reprise
Architecture, Inc.
12400 Portland Avenue South
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AST
780 CHMS LANE
SUITE 215
EDINA, MN 55419
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ASTEN@GCOM
Project Number: WA 1069
Drawn By: J. OBRIEN
Checked By: C. MARTIN
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CONSULTANT
DAVID C. BUCHANAN
WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
01/17/23
SEAL
BEST BUY
#0366
STORE NAME: PUYALLUP
ADDRESS:
4102 S MERIDIAN
STE A
PUYALLUP, WA 98373
SQUARE FOOTAGE CALCULATIONS
RETAIL: 39,284 SF
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TITLE SHEET
S000

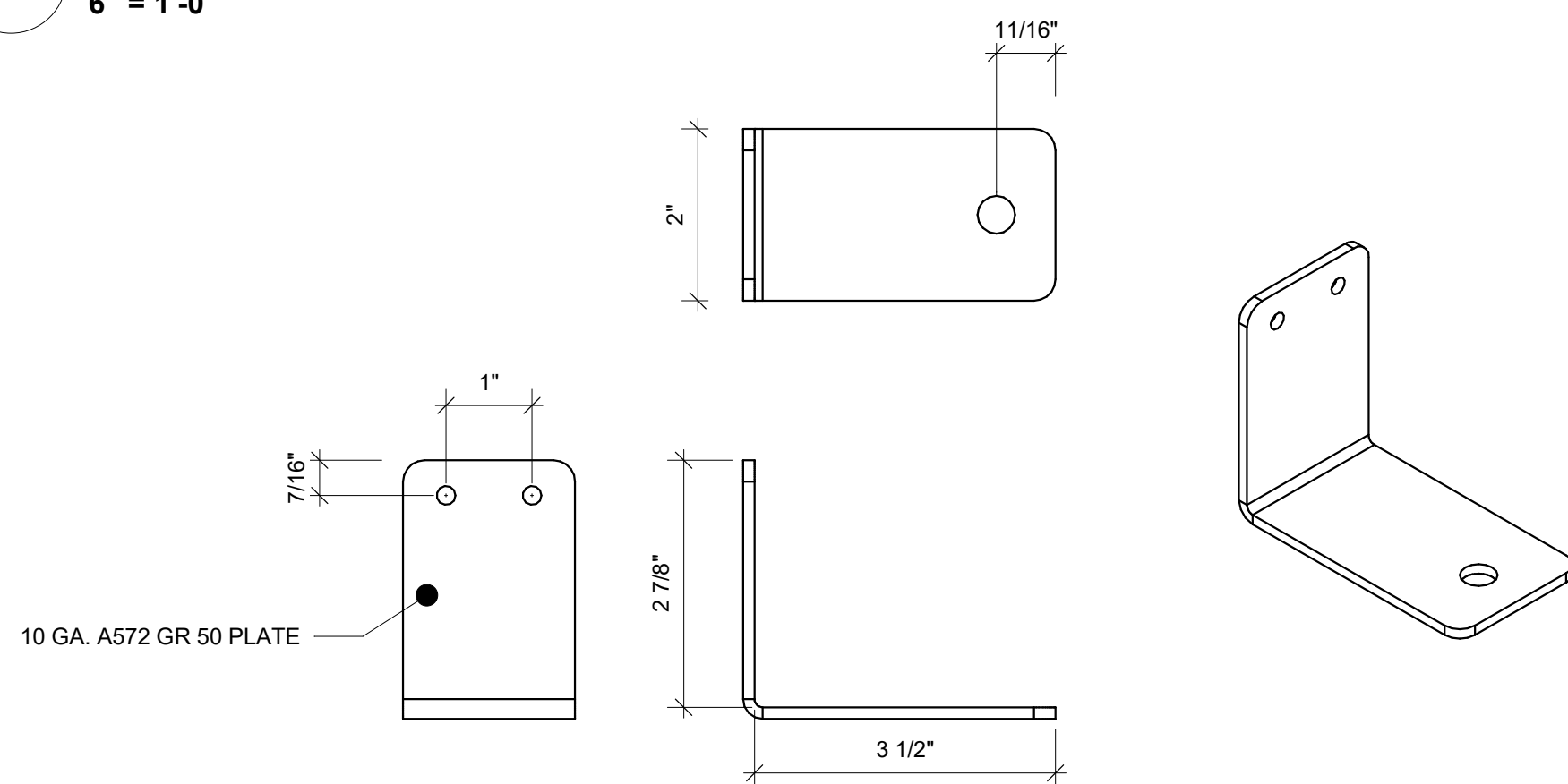
PRCTI20230074



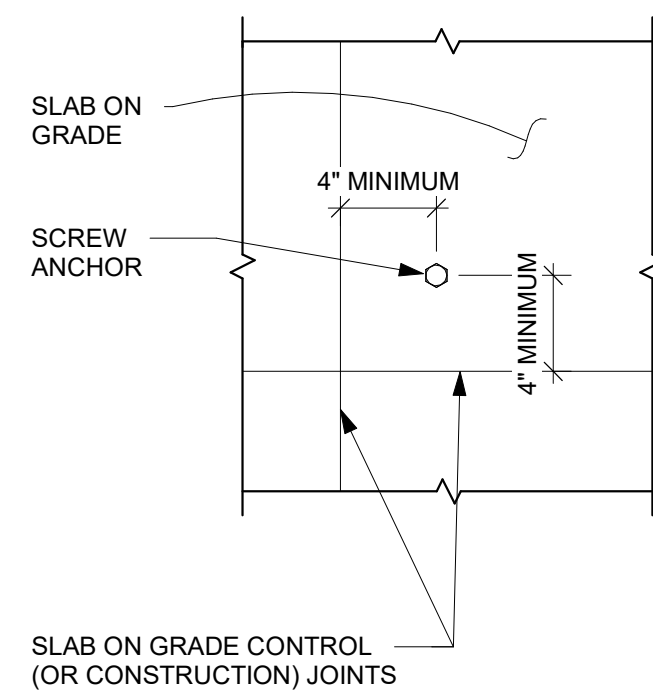
4 SIDE ELEVATION
1 1/2" = 1'-0"



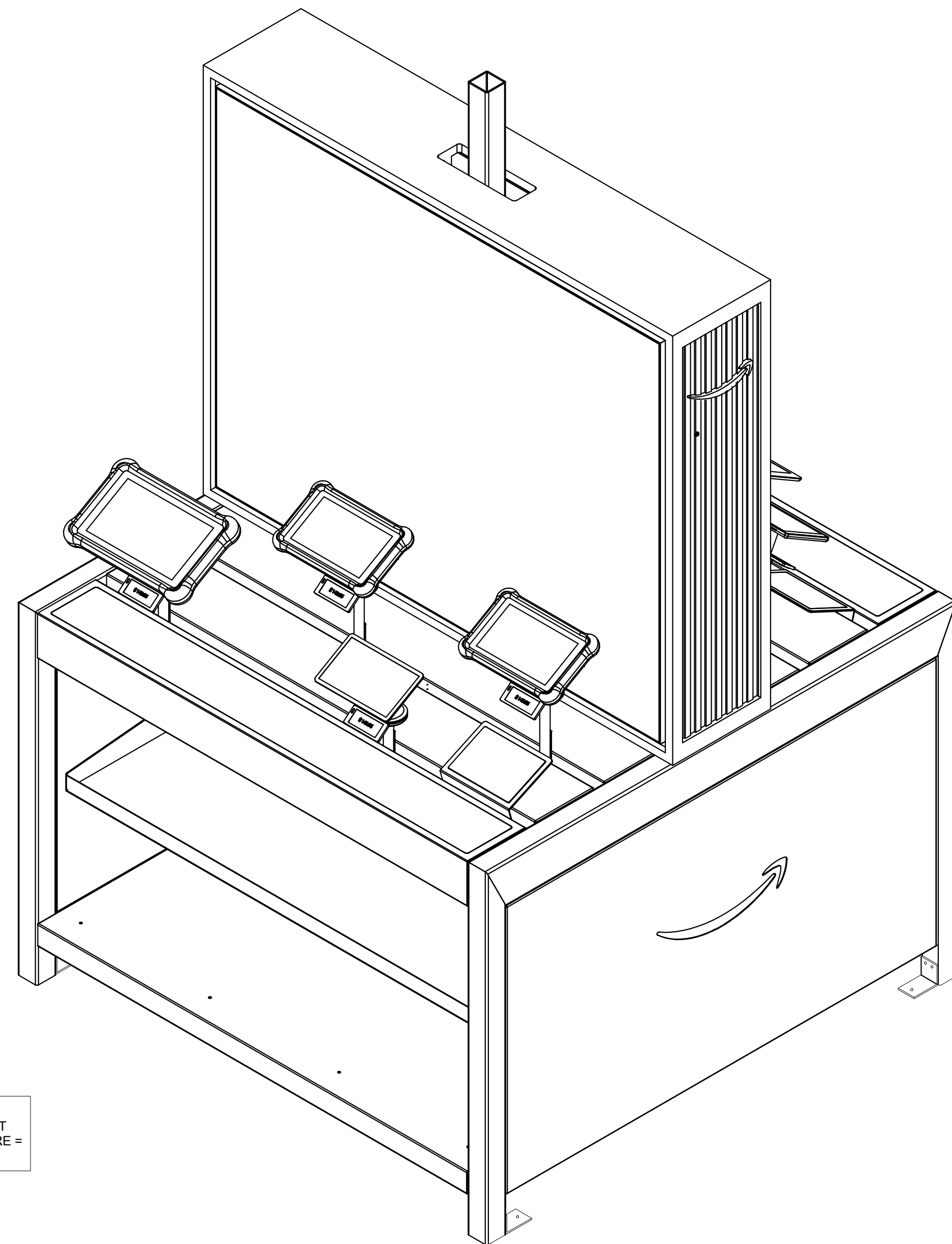
5 ANCHOR DETAIL
6" = 1'-0"



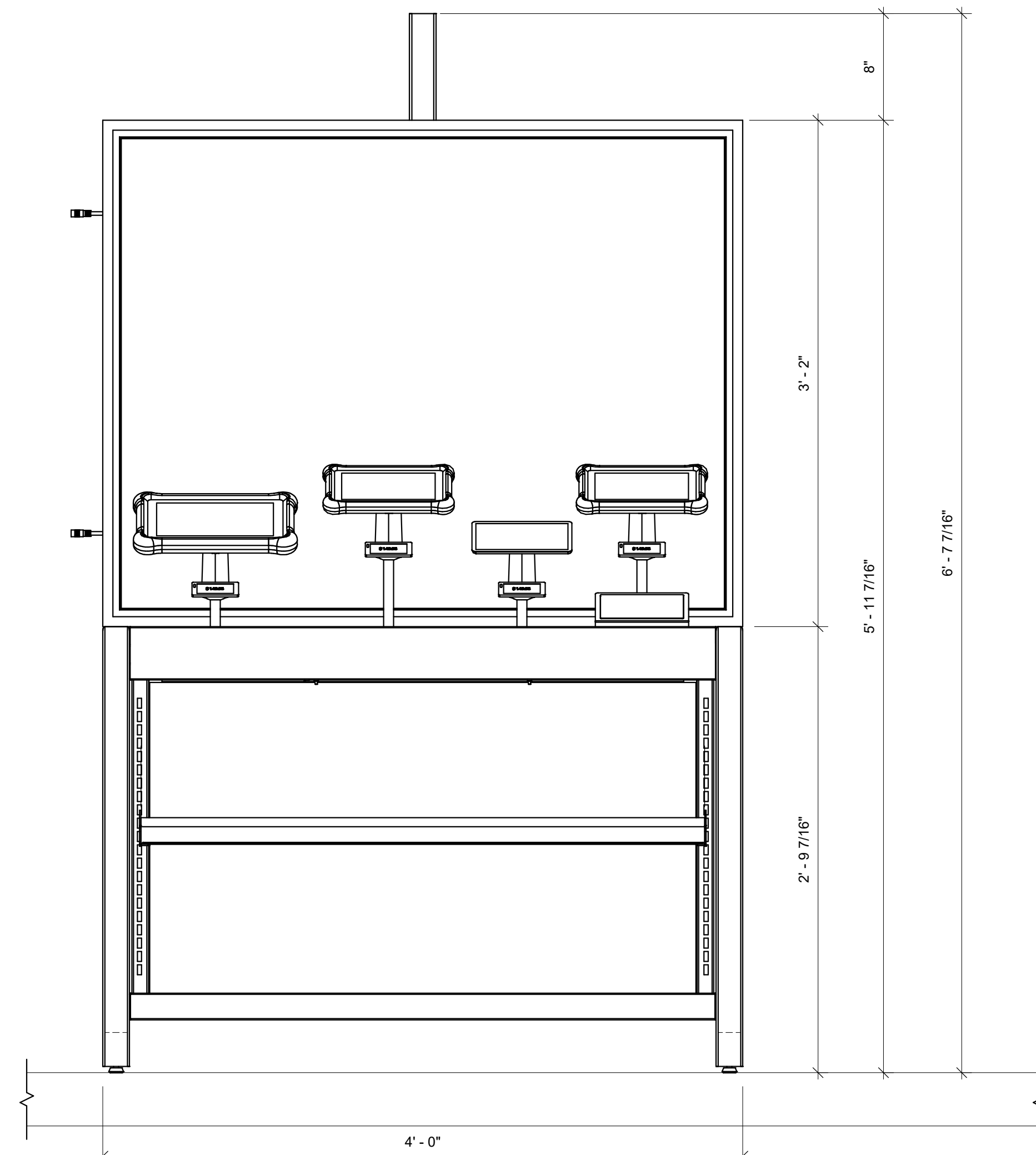
6 ANCHOR BRACKET
6" = 1'-0"



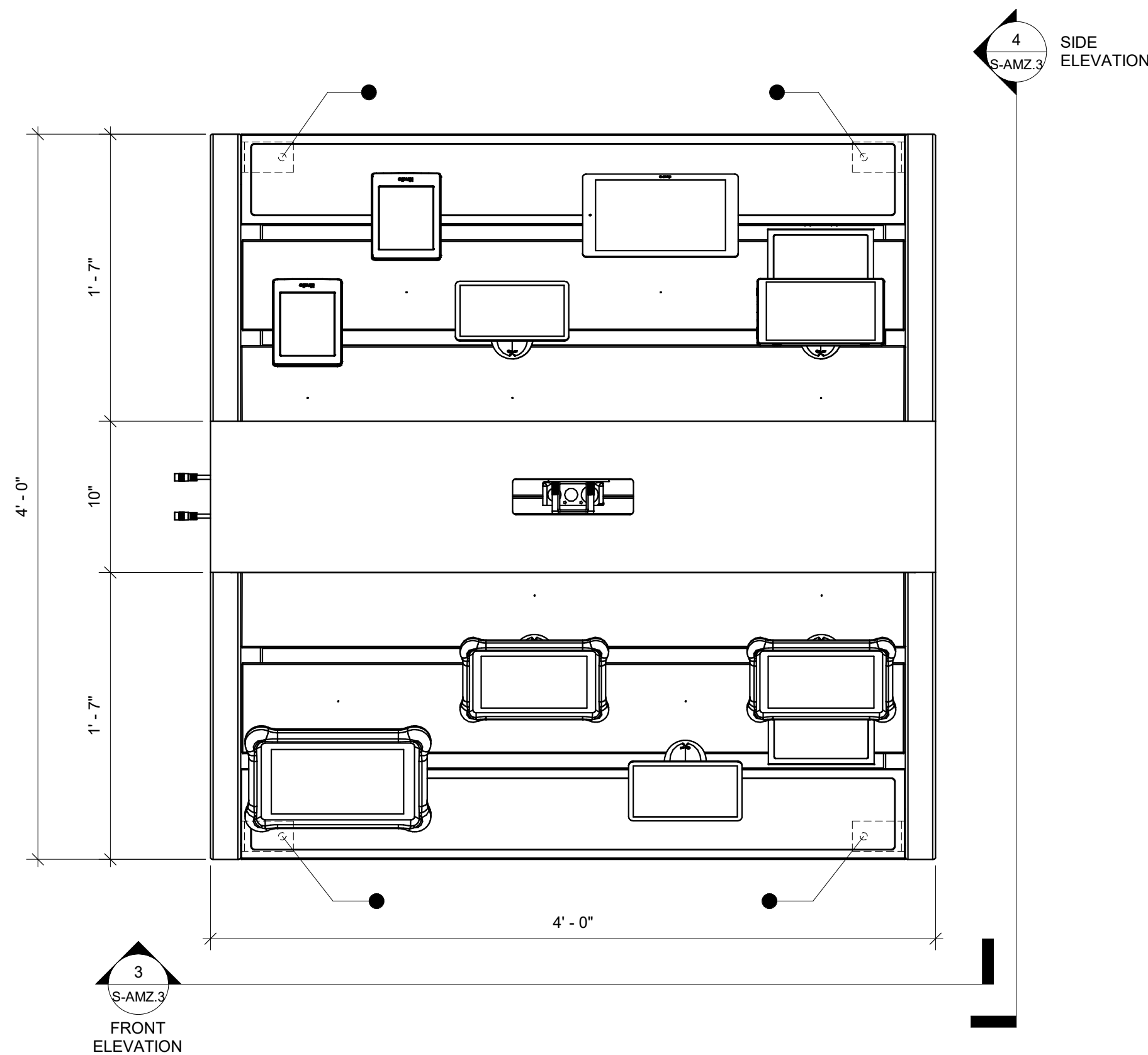
7 ANCHOR EDGE DISTANCE
1 1/2" = 1'-0"



1 AMAZON PLAY TABLE - ISO VIEW

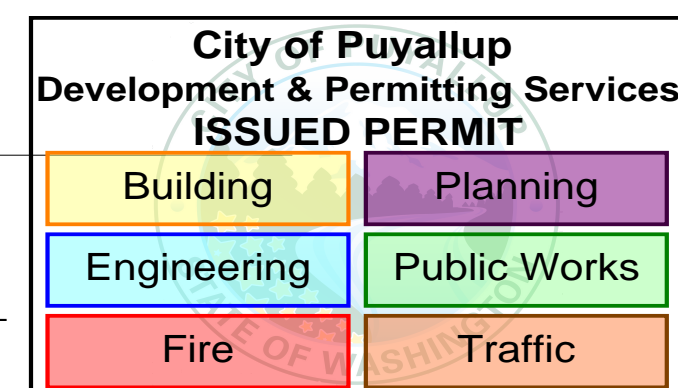


3 FRONT ELEVATION
1 1/2" = 1'-0"



2 PLAN VIEW
1 1/2" = 1'-0"

NOTE:
1. ON PLAN DENOTES ANCHOR LOCATION. SEE DETAIL 5/S-AMZ.3 FOR ADDITIONAL
INFORMATION. SEE 7/S-AMZ.3 FOR EDGE DISTANCE REQUIREMENT



AST MN 2033

SEE FIXTURE PLAN (SF-1) FOR
LOCATION OF FIXTURES

DISPLAY IS DESIGNATED ON PLAN AS:
AMZ.TBL2



780 CHMS LANE Project Number: WA 1069
SUITE 215
EDINA, MN 55419 Drawn By: J. O'BRIEN
(952) 854-9303 TEL.
ASTEN@AST.COM Checked By: C. MARTIN

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CONSULTANT



SEAL



#0366

STORE NAME: PUYALLUP

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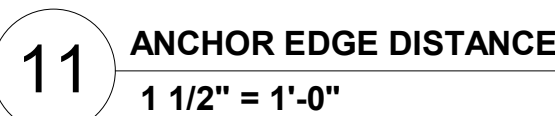
REVISION INFORMATION

CONCEPT 45K C5

6'-0" HIGH AMAZON PLAY
TABLE

S-AMZ.3

PRCTI20230074



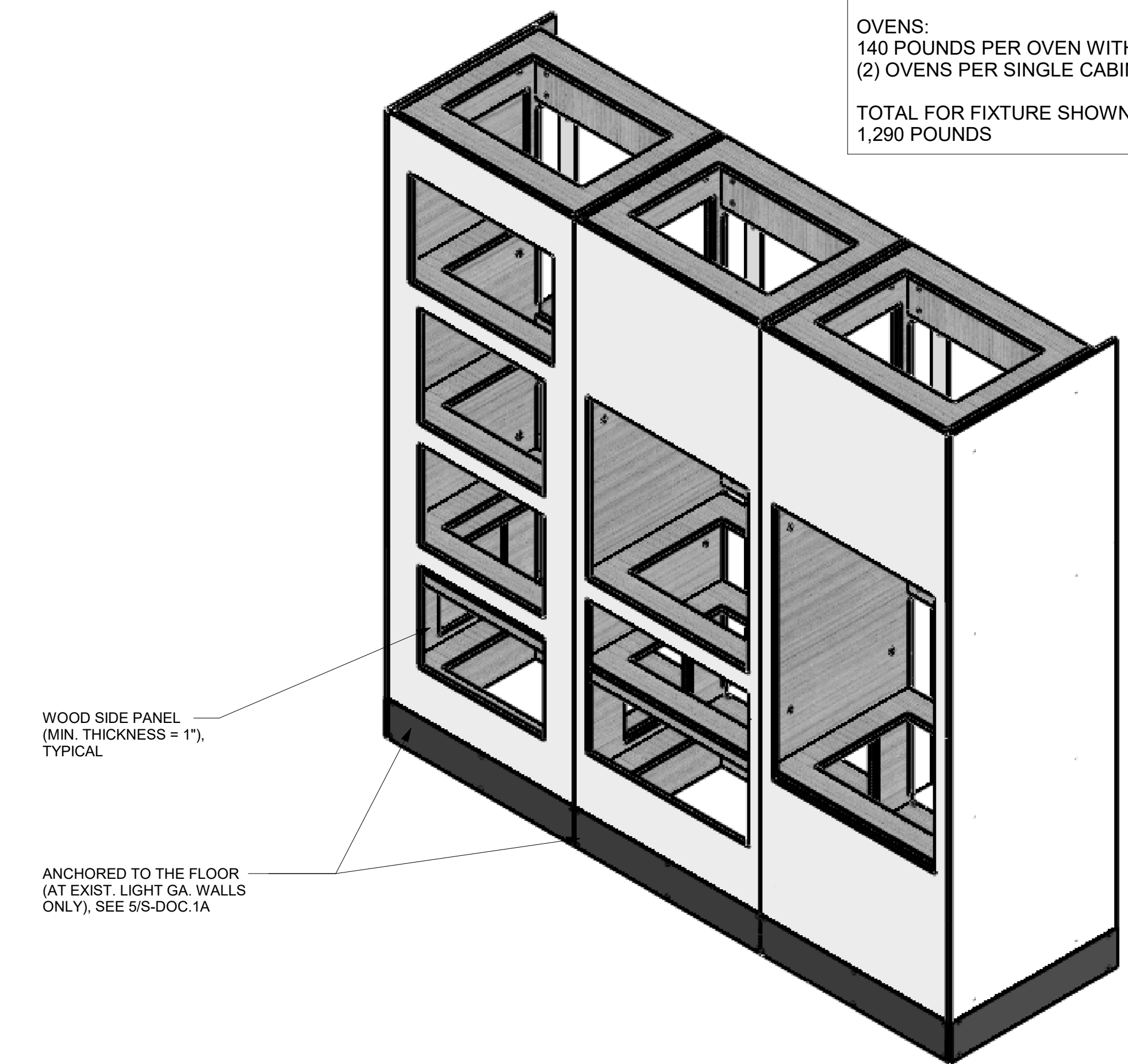
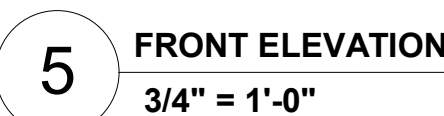
The drawing consists of two parts: a plan view on the left and a section view on the right.

Plan View (Left): Shows a rectangular wall system with a total width of 8'-4" and a total height of 8'-0". The wall is divided into three vertical sections. The leftmost section is 4'-0" wide and contains four rectangular panels. The middle section is 2'-4" wide and contains two rectangular panels. The rightmost section is 2'-0" wide and contains two rectangular panels. The wall is supported by a concrete slab on grade. The slab is 4" thick and has a 2 3/4" deep hole. The wall is anchored to the slab with 3/8" x 8" Hilti KB-T22 expansion anchors. A callout box points to the anchors and says: "SEE SHEET S000 FOR EXPANSION BOLT INSTALLATION INSTRUCTIONS".

Section View (Right): Shows a cross-section of the wall system. The wall is 8'-0" high and 4'-0" wide. It is supported by a concrete slab on grade. The slab is 4" thick and has a 2 3/4" deep hole. The wall is anchored to the slab with 3/8" x 8" Hilti KB-T22 expansion anchors. A callout box points to the anchors and says: "SEE SHEET S000 FOR EXPANSION BOLT INSTALLATION INSTRUCTIONS". The wall is also anchored to an existing wall system with 6-9 5-DIG 1A anchors. A callout box points to these anchors and says: "ANCHORAGE TO EXIST. WALL SYSTEM". The wall is also anchored to the floor with a floor anchor bracket at the existing light-ga. wall systems only.

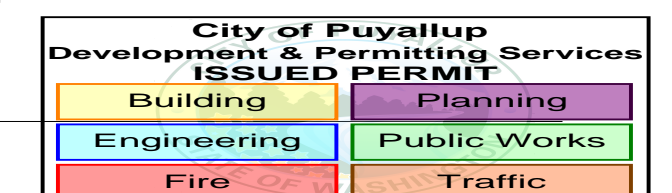
Labels and Dimensions:

- 8'-0" (Total height)
- 8'-4" (Total width)
- 4'-0" (Left section width)
- 2'-4" (Middle section width)
- 2'-0" (Right section width)
- 4" (Slab thickness)
- 2 3/4" DEEP HOLE (Slab hole depth)
- 3/8" x 8" HILTI KB-T22 EXPANSION ANCHORS (SEE SHEET S000 FOR APPROVAL INFORMATION)
- (E) CONCRETE SLAB ON GRADE
- ANCHORAGE TO EXIST. WALL SYSTEM (6-9 5-DIG 1A)
- EXISTING WALL
- FLOOR ANCHOR BRACKET AT EXISTING LIGHT-GA. WALL SYSTEMS ONLY
- SECTION A-A

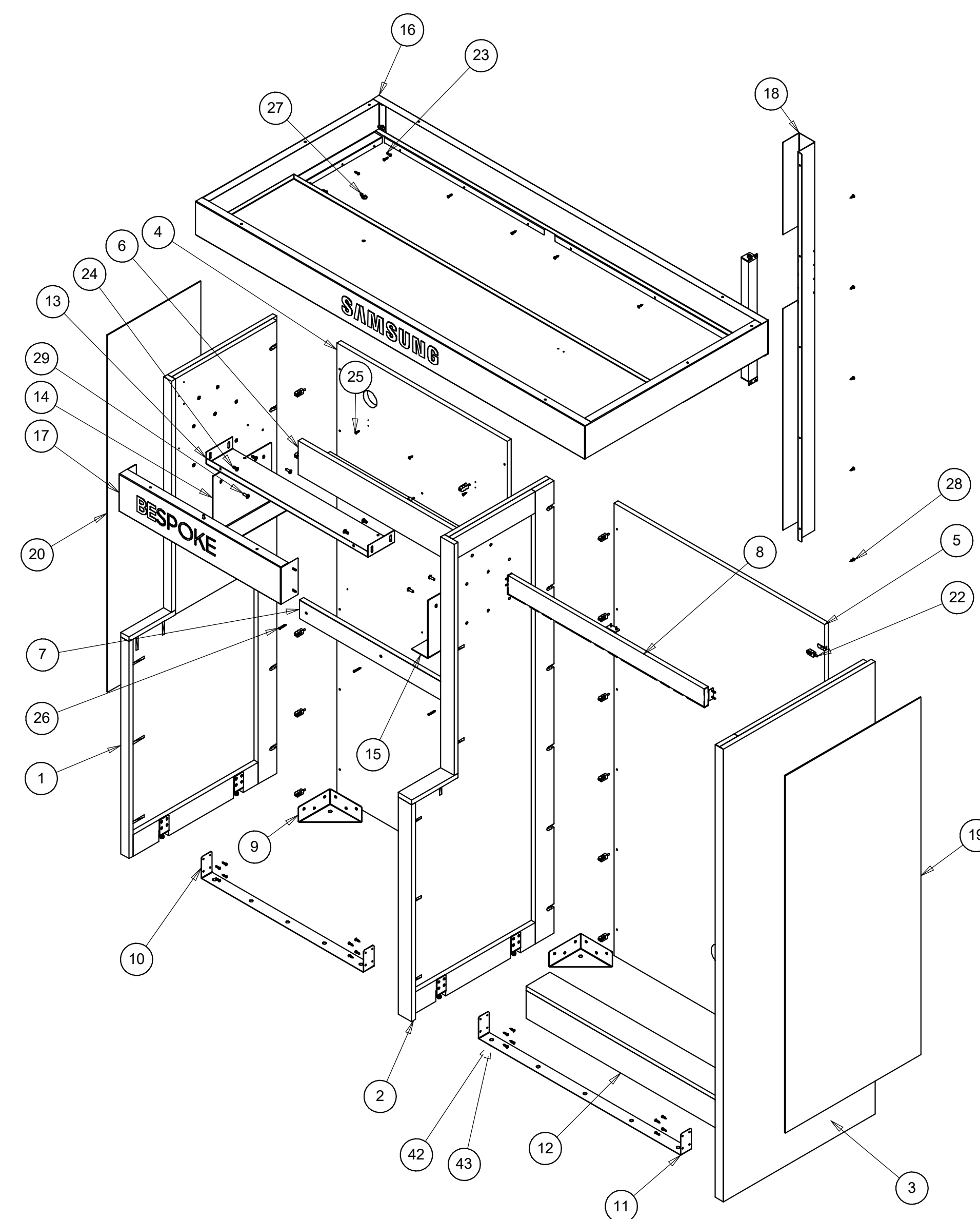
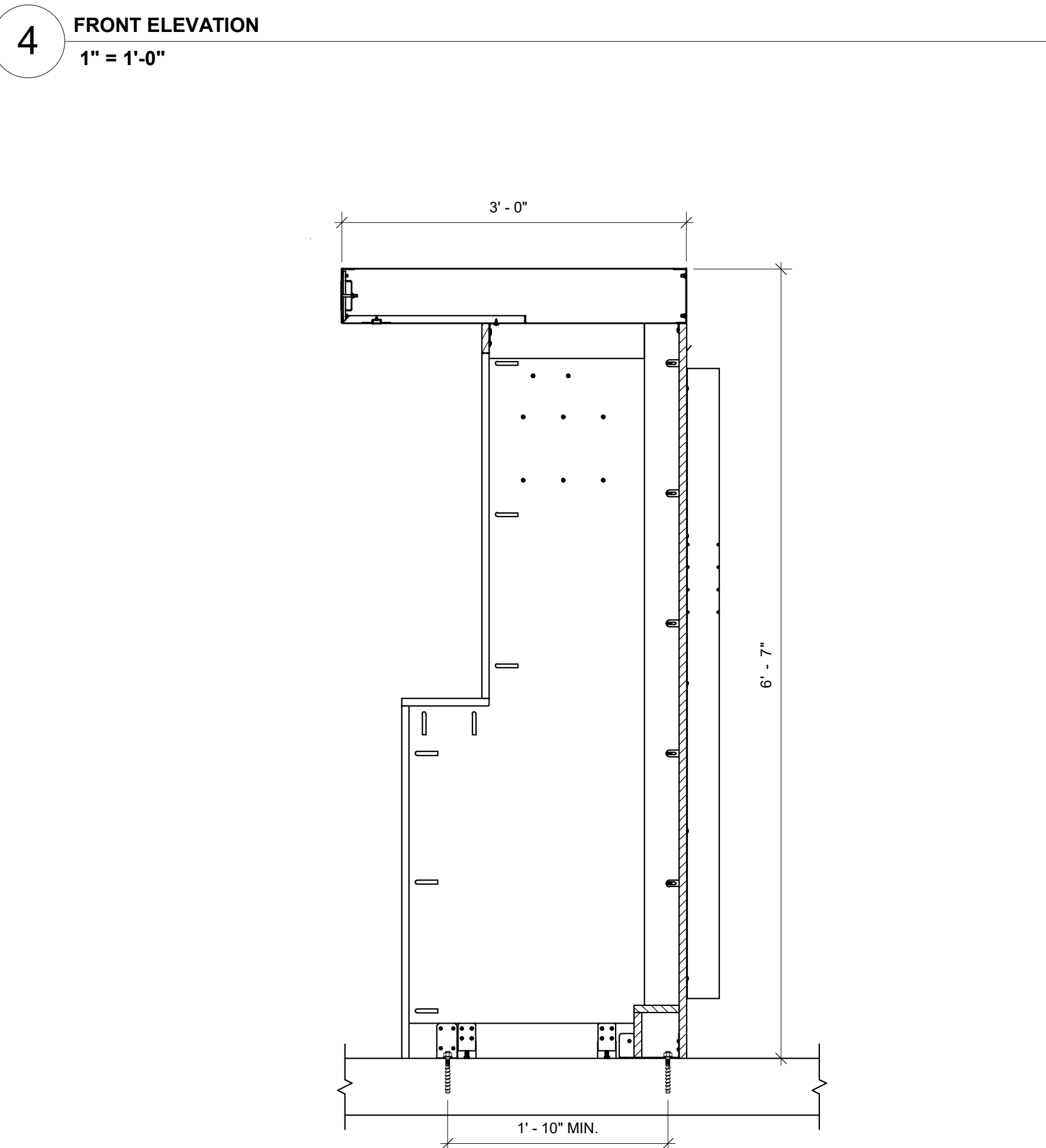
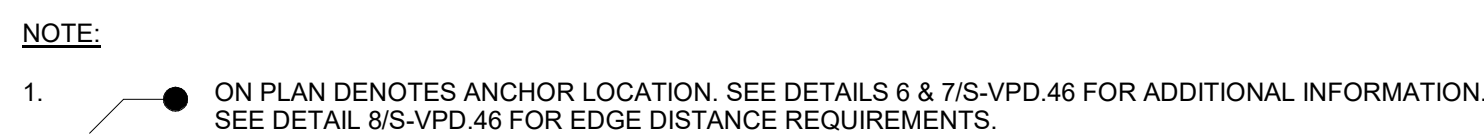
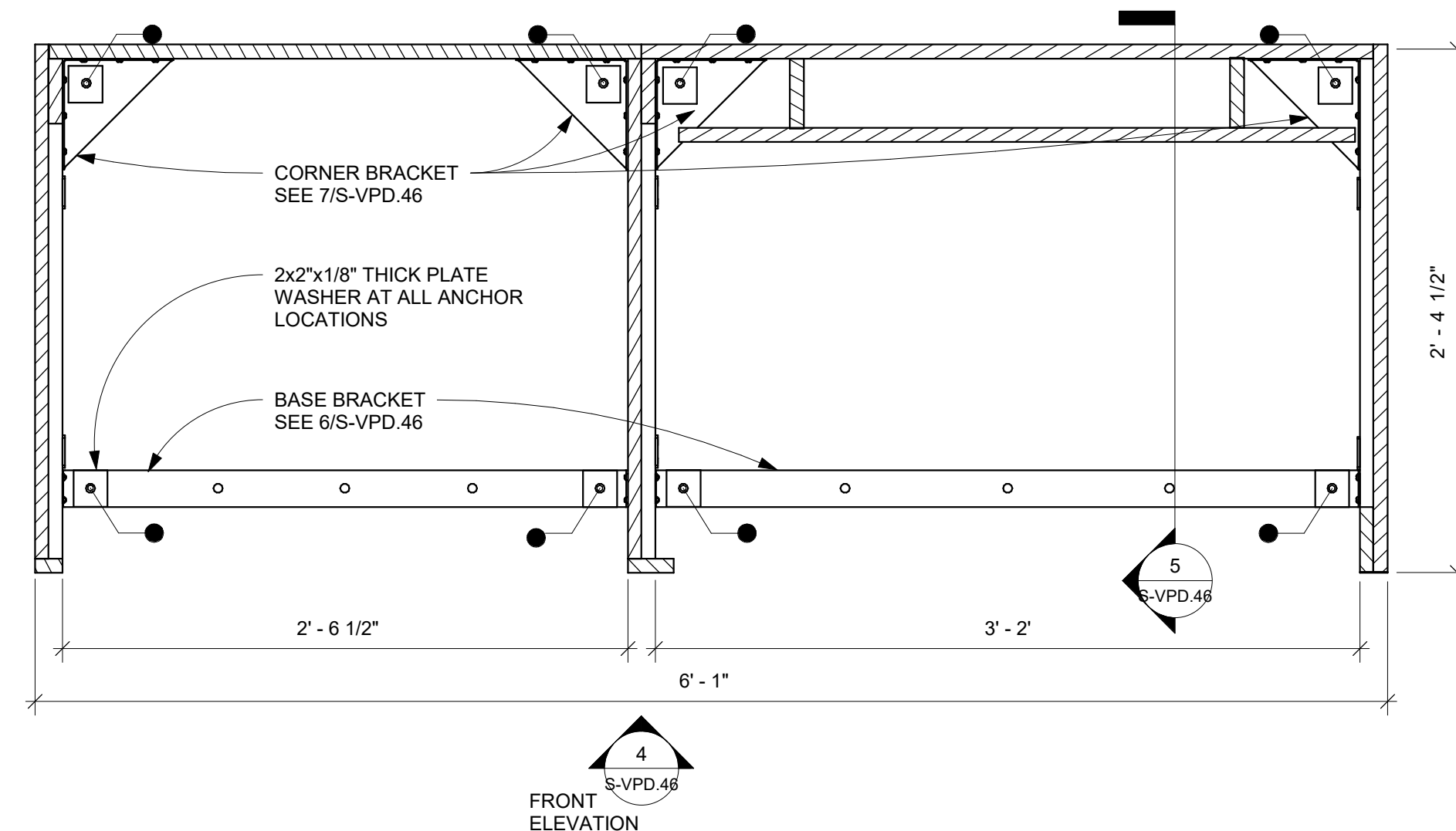
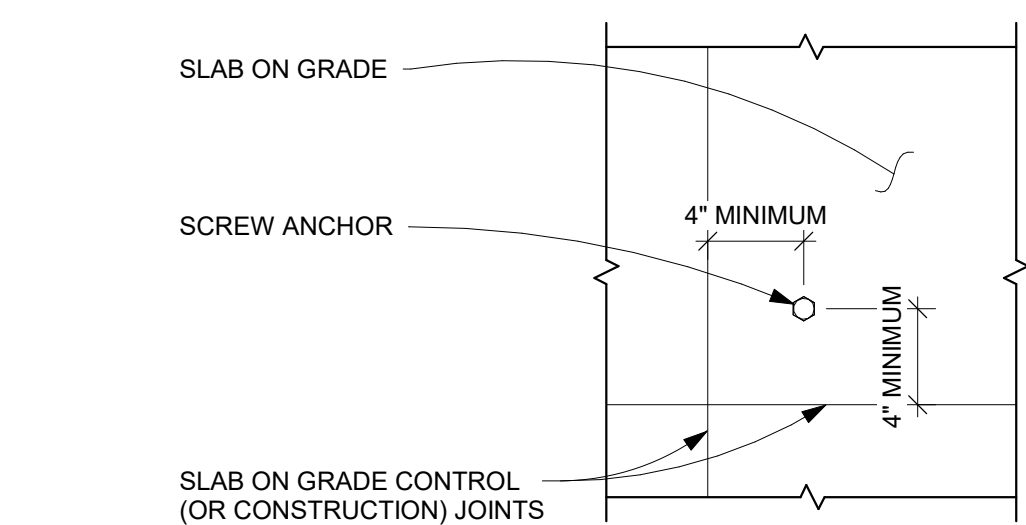
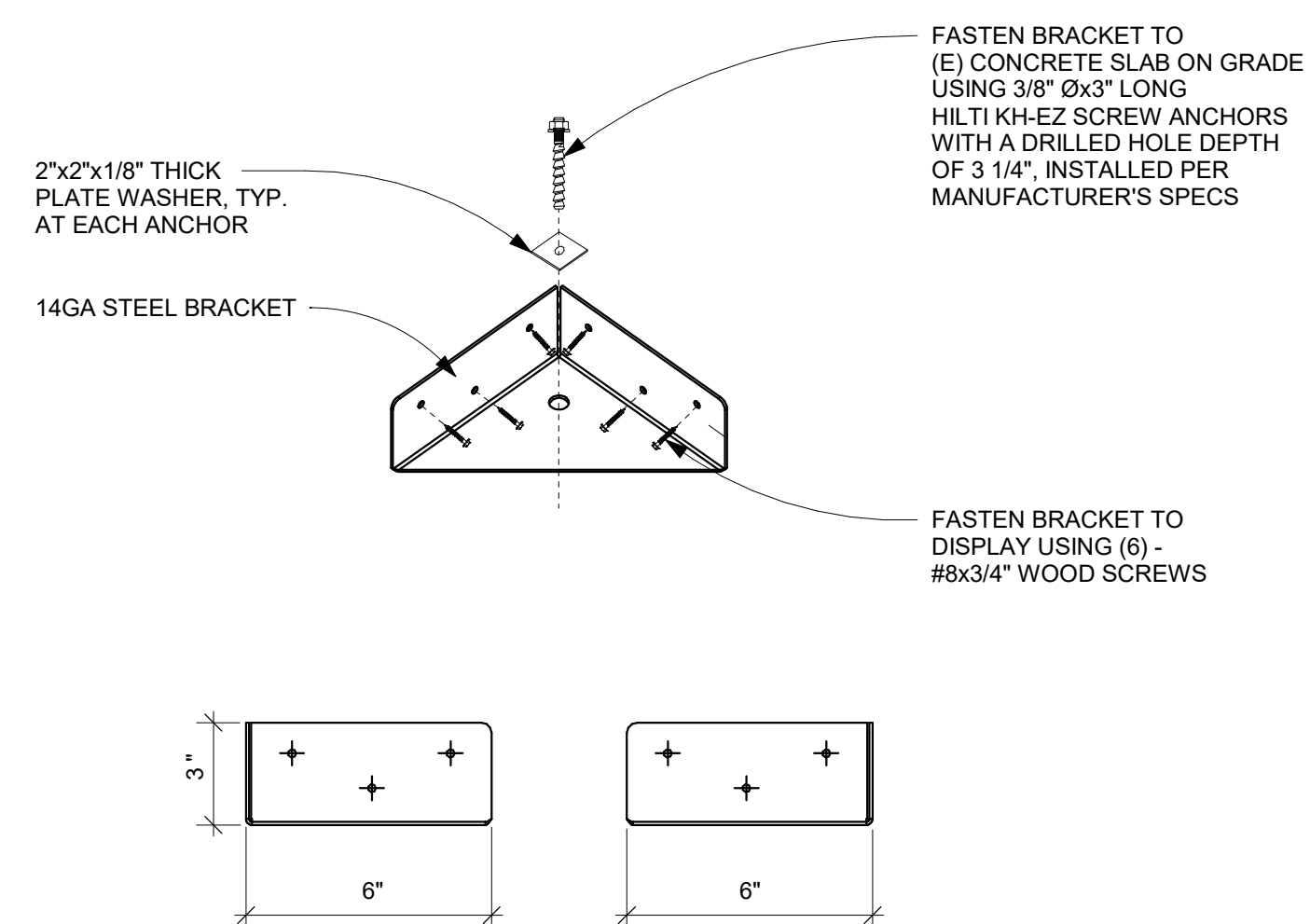
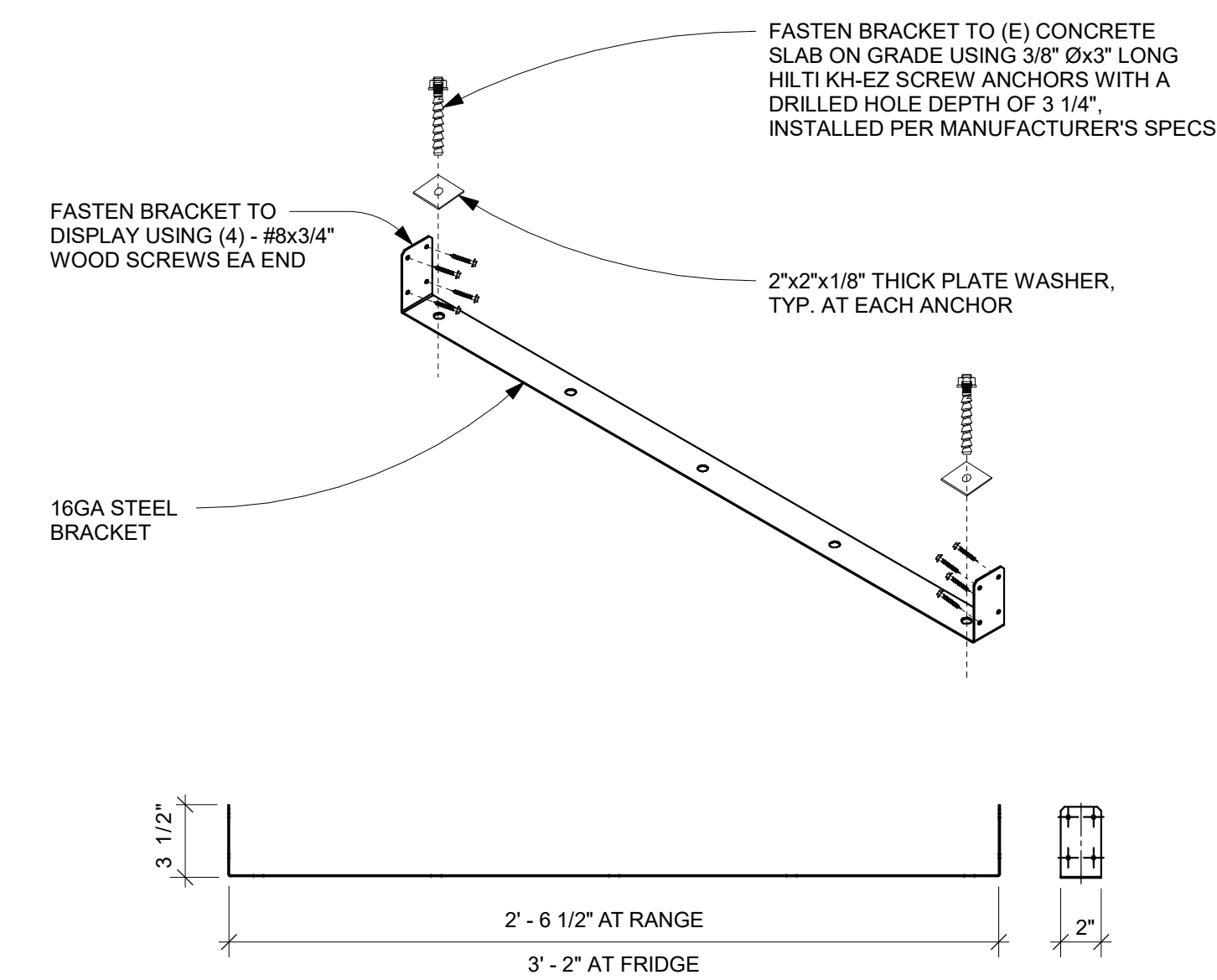


This exploded view diagram illustrates the assembly of the cabinet's main structure. The components are numbered as follows:

- 1**: The main cabinet frame, consisting of two vertical sections and a top section.
- 2**: The bottom panel of the cabinet.
- 3**: The top panel of the cabinet.
- 4**: The side panel of the cabinet.
- 5**: The front panel of the cabinet.
- 6**: The door panel of the cabinet.
- 7**: The drawer front panel.



PRCTI20230074



AST MN 2030

**SEE FIXTURE PLAN (SF-1) FOR
LOCATION OF FIXTURES**

DISPLAY IS DESIGNATED ON PLAN AS:
FE.36SS

MAX. ALLOWABLE IN-SERVICE WEIGHTS:

DISPLAY = 330 POUNDS

MICROWAVE = 60 POUNDS

TOTAL FIXTURE WEIGHT (DOES NOT INCLUDE REFRIGERATOR AND RANGE) = 390 POUNDS

reprise

Architecture, Inc.
12400 Portland Avenue South
Suite 100, Portland Corporate Center
Burnsville, MN 55337
Office: (612) 252-4043
Fax: (952) 252-4043

DESIGN

EST

7301 OHMS LANE	Project Number:	WA 1089
SUITE 215		
EDINA, MN 55439	Drawn By:	J. O'BRIEN
(952) 854-9302 TEL.		
ASTENG.COM	Checked By:	C. MARTIN

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CONSULTANT



SEAL

BEST
BUY 

#0366
STORE NAME: PUYALLUP

ADDRESS:
4102 S MERIDIAN
STE A
PUYALLUP, WA 98373

SQUARE FOOTAGE CALCULATIONS

RETAIL: **22,224.25**

ISC BAY: 4,003 SF

SUPPORT ROOMS:

1,109 SF

STORAGE/REMAINING: **943 SF**

TOTAL: **45,339 SF**

FY24 RESET 1

Issue Date:	01/13/2023
-------------	------------

REVISION INFORMATION

CONCEPT 45K C5

6'- 7" HIGH SAMSUNG 3PC
ENDCAP DISPLAY

S-VPD.46

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRCTI20230074



1. ALL FIXTURES, SHELVING AND STANDARDS BELOW ARE TO BE INSTALLED BY FIXTURE CONTRACTORS.
2. GENERAL CONTRACTORS TO PROVIDE BLOCKING FOR ALL STANDARDS.
3. ALL FIXTURE DIMENSIONS ARE MEASURED FROM KICK PLATE TO KICK PLATE.

S-AMZ.3
S-VPD.46
S-OTR.3
S-DOC.1A
(1)

S-AMZ.3



JOHNS LANE #3215 MINNAPOLIS, MN 55439 612-854-9302 TEL. JL@JLNG.COM	Project Number:	WA 1089
	Drawn By:	J. O'BRIEN
	Checked By:	C. MARTIN

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CONSULTANT



BEST BUY

#0366
FORE NAME: PUYALLUP

ADDRESS:
102 S MERIDIAN
E A
YALLUP, WA 98373

SQUARE FOOTAGE CALCULATIONS	
TOTAL:	39,284 SF
BAY:	4,003 SF
SUPPORT ROOMS:	1,109 SF
STORAGE/REMAINING:	943 SF
TOTAL:	45,339 SF

Y24 RESET 1

Issue Date: 01/13/2023

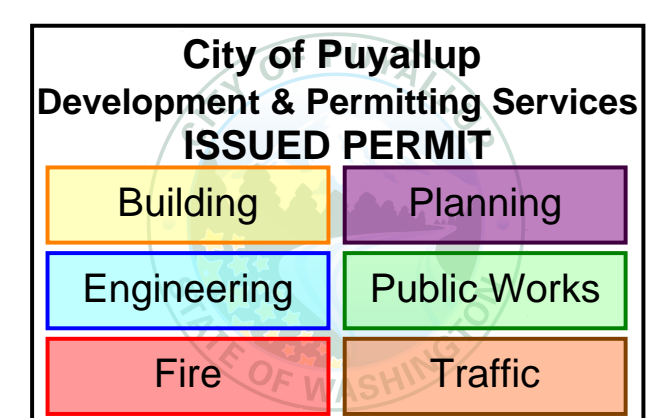
REVISION INFORMATION

CONCEPT 45K C5

TEXTURE PLAN

SF-1

PRCTI20230074



ELECTRICAL ABBREVIATIONS	
A	AMP
AC	ABOVE COUNTER
ADD	ADDENDUM
AFCL	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BBY	BEST BUY
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CU	COPPER
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC OR ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENC	ENCLOSURE
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
FA	FUSE OR FUSED
FACP	FIRE ALARM CONTROL PANEL
FSD	FIRE SMOKE DAMPER
GF	GROUND FAULT INTERRUPTER
GND	GROUND
IG	ISOLATED GROUND
JBOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMP
KW	KILOWATT
KWH	KILOWATT-HOUR
MCS	MOMENTARY CONTACT
MRT	MOTOR RATED SWITCH
MT	EMPTY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NOT	NOT IN CONTRACT
NL	NEW LOCATION FOR RELOCATED ITEM
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
PB	PULL BOX
PF	PUSHBUTTON
PH	POWER FACTOR
PH	PHASE
PNL	PANEL
PR	PRIMARY
R	REMOVE EXISTING ITEM
RECP	RECEPTACLE
REFG	REFRIGERATOR
RL	REMOVE EXISTING ITEM AND RELOCATE AS INDICATED
RTU	ROOF TOP UNIT
SEC	SECONDARY
SW	SWITCH
SWBD	SWITCHBOARD
SPKR	SPEAKER
TEL	TELEPHONE
TSTAT	THERMOSTAT
UC	UNDER COUNTER
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAC	VOLT-AMP
VDC	VOLTS DIRECT CURRENT
W	WATT
WP	WEATHERPROOF
X	EXISTING ITEM TO REMAIN
XFMR	TRANSFORMER
NOTE: REFER TO MOTOR AND EQUIPMENT SCHEDULES FOR ADDITIONAL MOTOR ABBREVIATIONS.	
RACEWAYS	
	MC CABLE - FIRST NUMBER INDICATES WIRE SIZE - SECOND NUMBER INDICATES NUMBER OF CONDUCTORS
	MODULAR WIRING
	CAT5 CABLE
	14V CONTROL WIRING
	UNDERGROUND CONDUITS
	CONDUIT WITH BUSHED END
	CIRCUIT HOME RUN - L1 INDICATES PANEL - NUMBERS INDICATE CIRCUITS
	CONDUCTOR COUNT - UNLESS NOTED OTHERWISE - SHORT HASH INDICATES 1/2 LINE - LONG HASH INDICATES 1/2 NEUTRAL - HASH W/ DOT INDICATES 1/2 GROUND
	PULL BOX, SIZE AS NOTED
	JUNCTION BOX - WALL/CEILING MOUNT
	WIREWAY, DUCT BANK, OR FLOOR DUCT, AS NOTED
	CABLE TRAY, TYPE/SIZE AS INDICATED
	BLACK FIXTURE EXTENSION

SWITCHES & CONTROLS		
SYMBOL	DESIGNATION	MTG HT
POWER		
	BRANCH CIRCUIT PANEL	VERIFY
	EMERGENCY PANEL	VERIFY
	DISTRIBUTION PANEL OR SWITCHBOARD	VERIFY
	EQUIPMENT CABINET	VERIFY
	TRANSFORMER	VERIFY
	MOTOR OR MOTOR CONNECTION	VERIFY
	MOTOR CONTROLLER, STARTER, OR VFD	VERIFY
	COMBINATION STARTER & DISCONNECT SWITCH	VERIFY
	DISCONNECT SWITCH	VERIFY
	MOTOR RATED TOGGLE SWITCH	VERIFY
	FIRE ALARM	VERIFY
	MANUAL MOTOR STARTER SW WITH THERMAL OVERLOAD	VERIFY
	DUPLEX RECEPTACLE - WALL/CEILING MOUNT	20"
	QUADPLEX RECEPTACLE - WALL MOUNT	20"
	LEGRAND RECEPTACLE ASSEMBLY WITH BLACK WIRE MOLD BOX	VERIFY
	QUADPLEX RECEPTACLE - ONE DUPLEX CONTINUOUS POWER AND ONE DUPLEX CONTROLLED RECEPTACLE	VERIFY
	PASS & SEYMOUR 582CDBL DUAL-CONTROLLED DUPLEX RECEPTACLE 20A, 125V, BLUE, 5-20R	VERIFY
	CONTROLLED QUADPLEX RECEPTACLE: PASS & SEYMOUR 582CDBL DUAL-CONTROLLED DUPLEX RECEPTACLE 20A, 125V, BLUE, 5-20R	VERIFY
	DUPLEX RECEPTACLE - SPLIT WIRED	VERIFY
	SPECIAL PURPOSE RECEPTACLE - WALL/CEILING MOUNT	VERIFY
	FLOOR BOX - DEVICES AS INDICATED	-
	POWER POLE - DEVICES AS INDICATED	-
	MULTI-OUTLET ASSEMBLY - DEVICES AS INDICATED	VERIFY
	MOTOR/EQUIPMENT TAG	-
	BUZZER/BELL	VERIFY
	KEY NOTE	-

NOTE TO ELECTRICAL CONTRACTOR

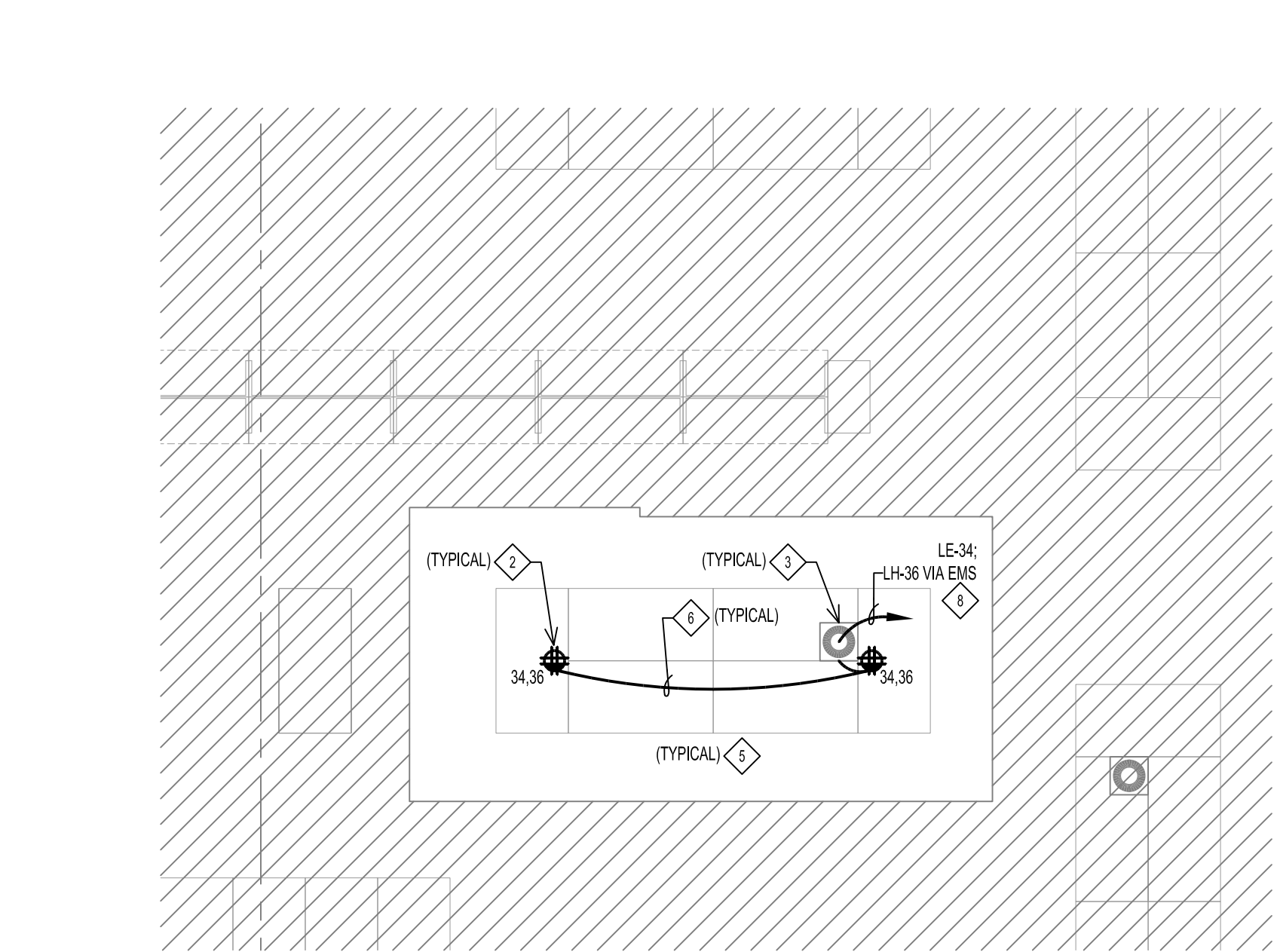
CONTROLLED RECEPTACLES TO BE PASS & SEYMOUR 582CDBL DUAL-CONTROLLED DUPLEX RECEPTACLE 20A, 125V, BLUE, 5-20R.

MUST ORDER THROUGH GRAYBAR MINNEAPOLIS AS THEY ARE THE ONLY LOCATION TO STOCK ITEM.

CONTACT: SCOTT MOSEMAN AT GRAYBAR NATIONAL ACCOUNTS FOR ANY PRICING OR LEAD TIME

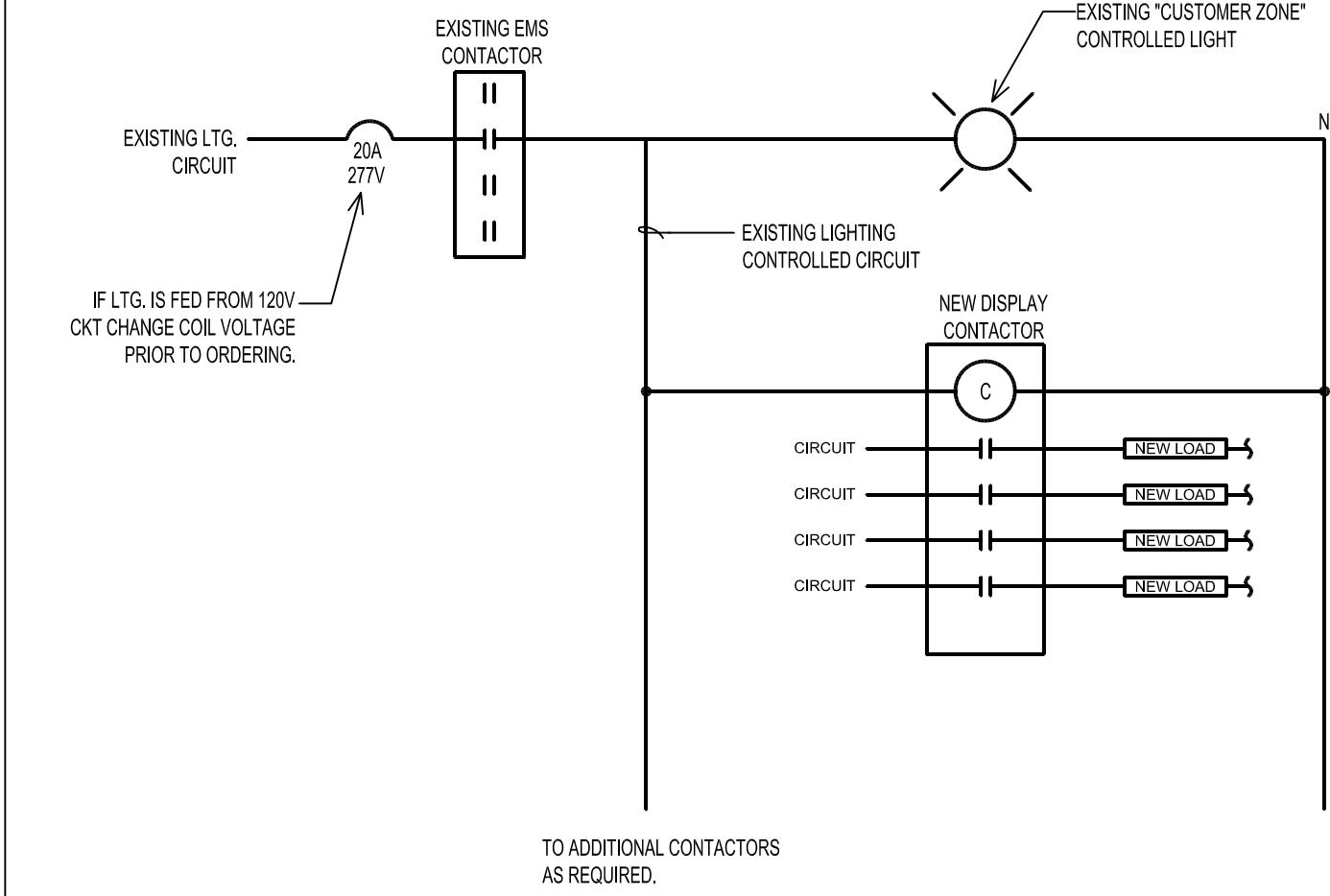
PHONE: (612) 810-0916

EMAIL: BESTBUYCONS@GRAYBAR.COM



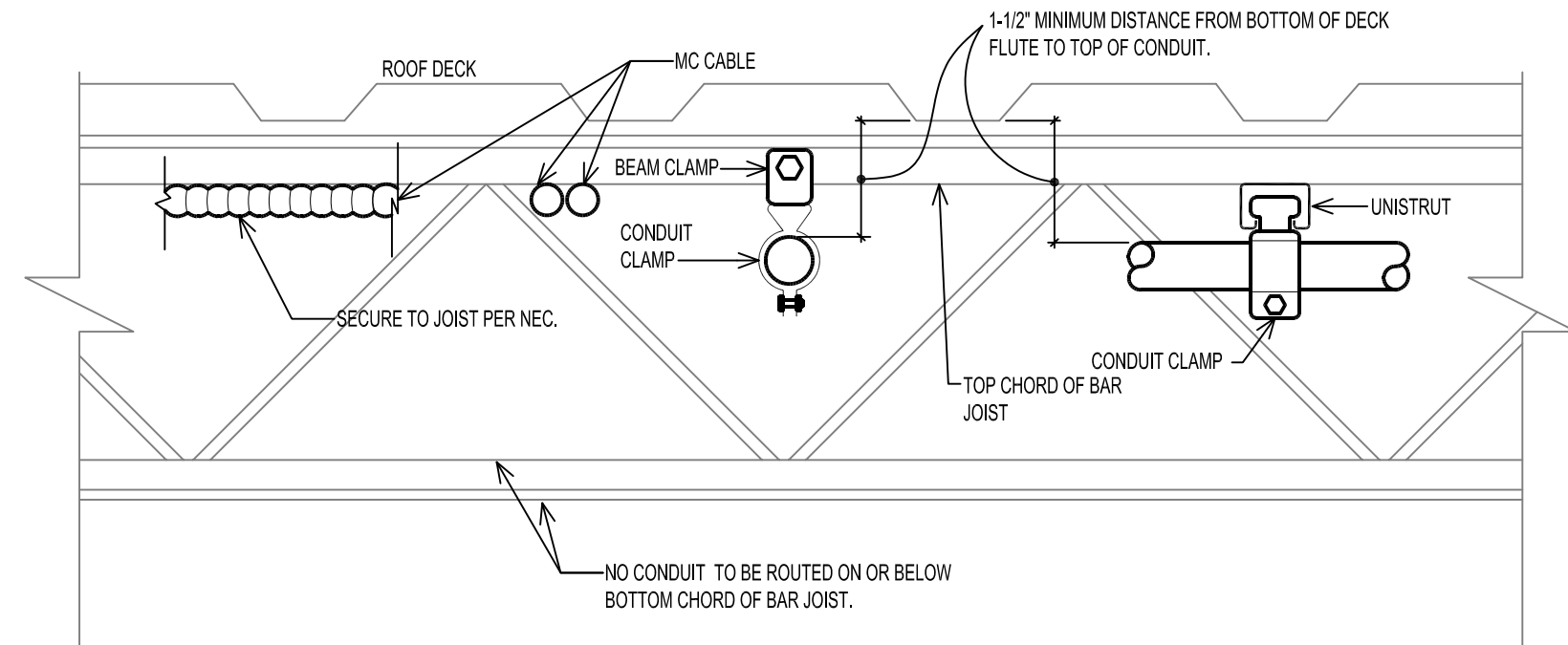
1 ELECTRICAL POWER PLAN

Panel: LE					Voltage: 120/208V, 3Ph, 4w									
Code L-VA	Code C-VA	Code R-VA	Code M-VA	Code E-VA	Amp (code)	Ph	Amp (code)	Code L-VA	Code C-VA	Code R-VA	Code M-VA	Code E-VA		
					EXISTING DISPLAY RECEPT	201	1 - A - 2	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	3 - B - 4	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	5 - C - 6	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	7 - A - 8	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	9 - B - 10	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	11 - C - 12	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	13 - A - 14	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	15 - B - 16	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	17 - C - 18	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	19 - A - 20	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	21 - B - 22	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	23 - C - 24	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	25 - A - 26	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	27 - B - 28	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	29 - C - 30	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	31 - A - 32	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	33 - B - 34	2011	EXISTING DISPLAY RECEPT					
					EXISTING DISPLAY RECEPT	201	35 - C - 36	2011	DISPLAY RECEPT		360			
					EXISTING DISPLAY RECEPT	201	37 - A - 38	2011	DISPLAY RECEPT		360			
					EXISTING DISPLAY RECEPT	201	39 - B - 40	2011	SPARE					
					SPARE	201	41 - C - 42	2011	SPARE					
					NONE		Breaker	B - Fed Lugg	NONE					
					NONE		NONE	- C - Conn	NONE					
0	0	0	0	0										
0	360	0	0	0										
0	360	0	0	0										
- A -	+ B -	- C -	Total											
0	0	0	4	0	7	Connected KVA Totals								
Panelboard Motors														
2	E - C TO BALANCE EACH PHASE WITH 10%													
5														
2											125% Largest Motor			
2											Convenience Receptacles (180 W)	Code C	0.0	0.0
2											Receptacles (Non Convenience)	Code R	0.0	0.0
2											Motors - Code M			
2											Electric Heat - Code E			
2											Total KVA	Code K	0.0	0.0
2											Spares = 0 %	Spares KVA	0	
5	SURFACE Mounting										Adjusted Demand + Spares KVA			
225	Amps A/C Rating										Adjusted Amps (Demand + Spares KVA)		1	
225	Amp Rating of Bus													
220	Panel Amp Rating (Full Main)													
208	Phase To Phase Voltage													
Project Number:										Project Name:		File Name:		Date:
04/27/2022										BEST Buy Payroll		03986_Pyulup_MDP		1/12/2023

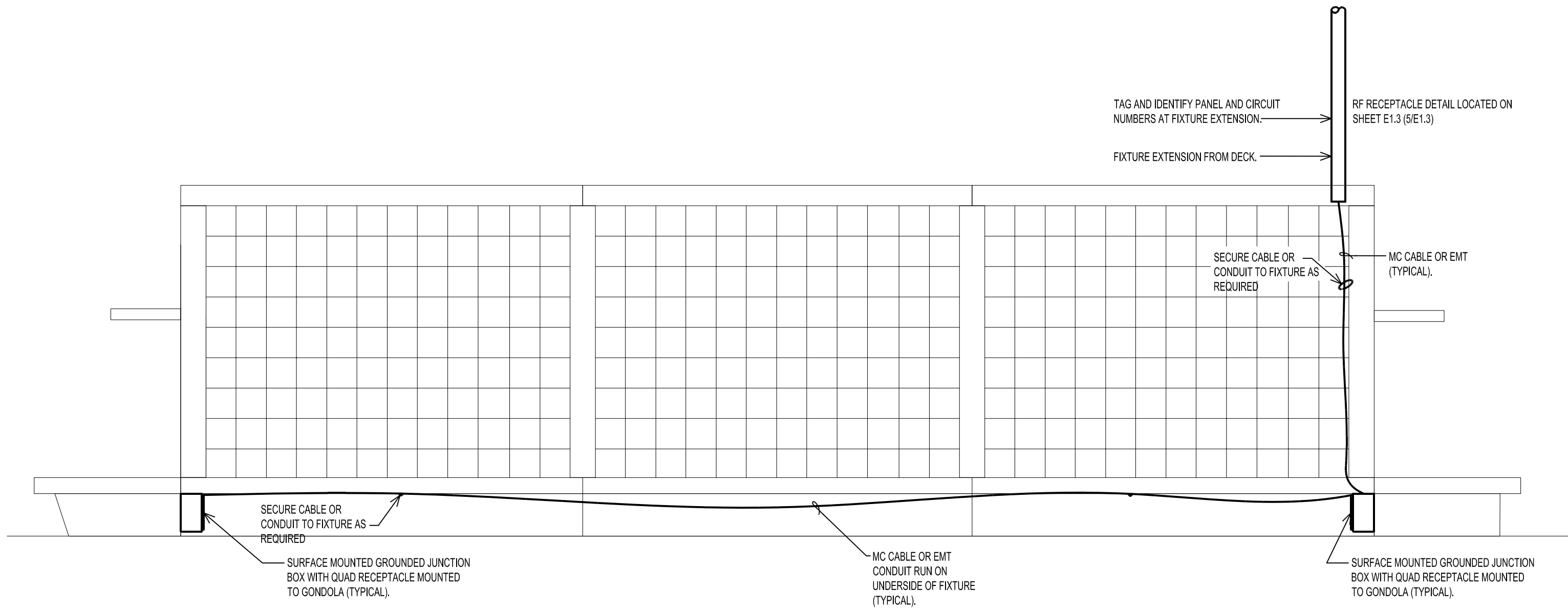


1 DISPLAY LIGHTING CONTACTOR CONTROL
SCALE: N.T.S.

2 NOT USED
SCALE: N.T.S.

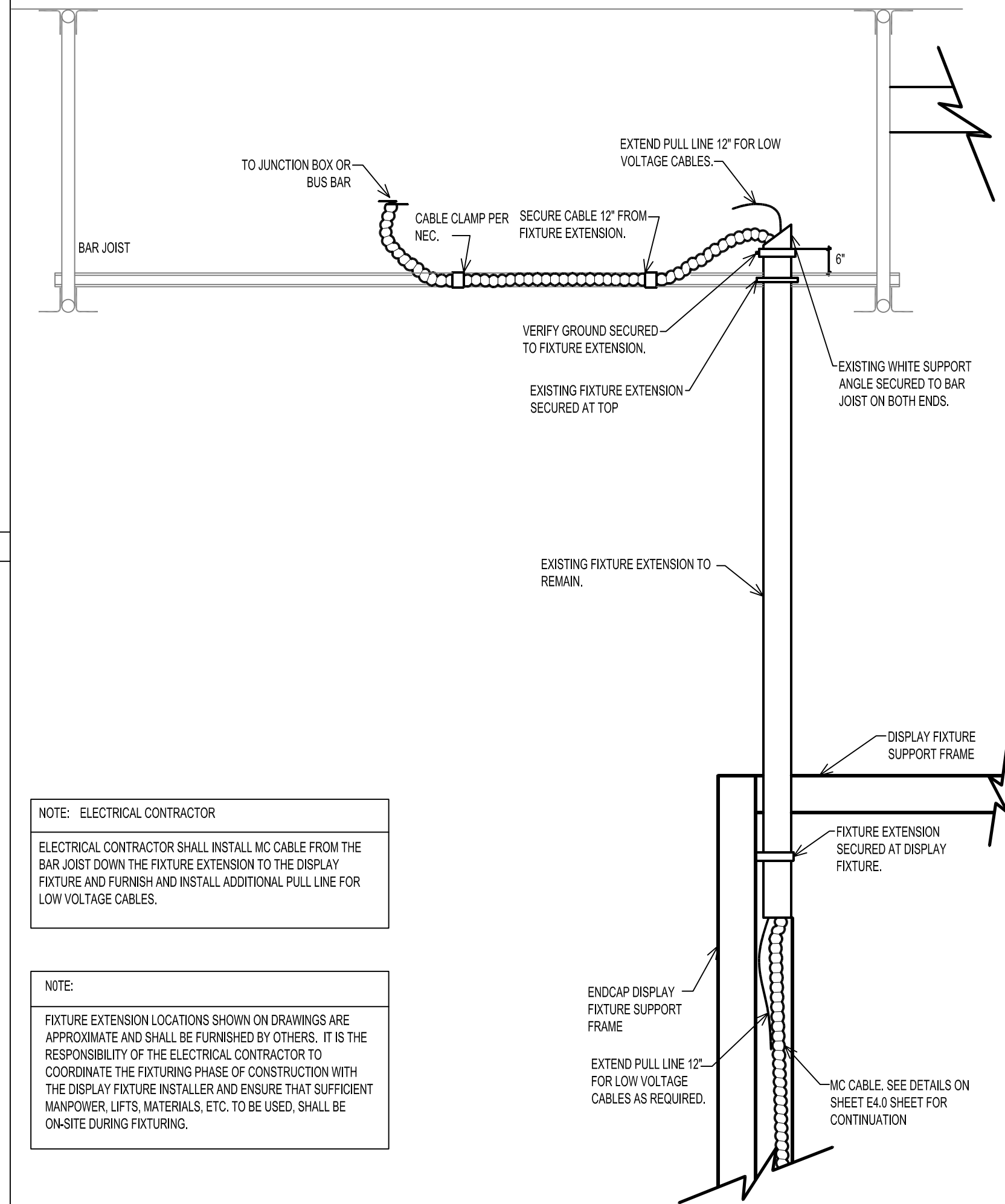


3 CONDUIT ROUTING DETAIL
SCALE: N.T.S.



5 NOT USED
SCALE: N.T.S.

6 NOT USED
SCALE: N.T.S.



NOTE: ELECTRICAL CONTRACTOR
ELECTRICAL CONTRACTOR SHALL INSTALL MC CABLE FROM THE BAR JOIST DOWN THE FIXTURE EXTENSION TO THE DISPLAY FIXTURE AND FURNISH AND INSTALL ADDITIONAL PULL LINE FOR LOW VOLTAGE CABLES.

NOTE:
FIXTURE EXTENSION LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE AND SHALL BE FURNISHED BY OTHERS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE THE FIXTURING PHASE OF CONSTRUCTION WITH THE DISPLAY FIXTURE INSTALLER AND ENSURE THAT SUFFICIENT MANPOWER, LIFTS, MATERIALS, ETC. TO BE USED, SHALL BE ON-SITE DURING FIXTURING.

4 FIXTURE EXTENSION DETAIL
SCALE: N.T.S.

NOT USED
SCALE: N.T.S.

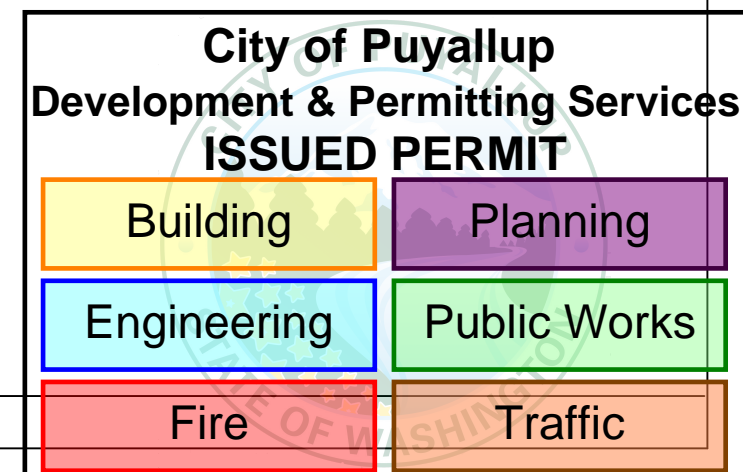
NOT USED
SCALE: N.T.S.

NOT USED
SCALE: N.T.S.

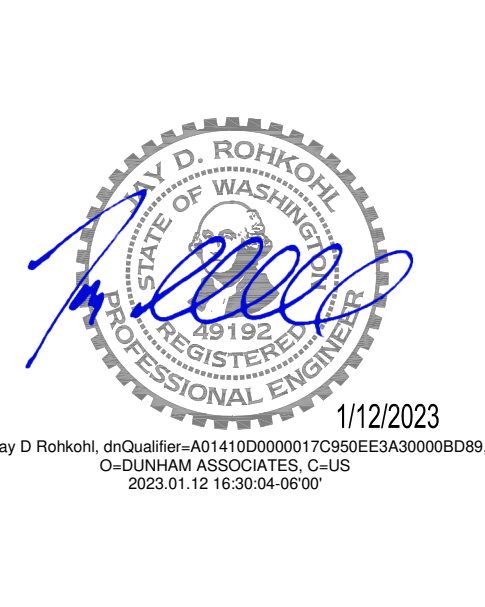
NOT USED
SCALE: N.T.S.

NOT USED
SCALE: N.T.S.

NOT USED
SCALE: N.T.S.



PRCTI20230074



SQUARE FOOTAGE CALCULATIONS	
SALES / RETAIL:	39,284 - SF
WAREHOUSE / STORAGE:	4,003 - SF
ISC BAY:	1,109 - SF
SUPPORT ROOMS / REMAINING:	943 - SF
TOTAL:	45,339 - SF

FY24 RESET 1
Issue Date: 01/13/2023

REVISION INFORMATION	

CONCEPT 45K C5

Drawing
ELECTRICAL DETAILS

E2.0

PART 1 - General

1.1 General conditions

- A. The general, special, and other conditions of the architectural, mechanical and vendor documents shall be considered an integral part of these electrical specifications.
- B. Reference to "contractor" in this specification shall mean "electrical contractor (EC)", unless otherwise noted. Work specified herein is the responsibility of the electrical contractor unless specifically noted otherwise.

1.2 Scope of work

- A. Furnish labor, materials, equipment, tools, and other items necessary for, or incidental to, installation of a complete electrical system as required for this project.
- B. Also include other work and miscellaneous equipment not specifically mentioned, but reasonably inferred, that are required for a fully functional and tested system.

1.3 Drawings and documents

- A. The drawings and specifications form a complete set of plans for the electrical work for this project. What is required by either shall be as binding as if required by both. In the event the drawings and specifications are in conflict, the greater requirement or cost shall be included in bid, or if time, a clarification will be issued.
- B. Bidders shall examine other trade and equipment vendor drawings and specifications to avoid omissions, duplications, and to insure complete installation of electrical work.
- C. The electrical drawings are diagrammatic and are intended to show approximate location only. Placement of electrical equipment and devices shall not interfere with locations or clearances of other trades' materials or equipment. Coordinate the placement of electrical devices with architectural plans, elevations and details.
- D. The direct routing of conduits and wiring is not assumed. Exact requirements shall be governed by the conditions of the project site. Extra lengths of wiring or the addition of pull or junction boxes, etc., necessitated by such conditions, shall be included in the bid.
- E. Drawing representations: conduits, crouling, devices, speakers, etc., shown on the drawings as existing are based on existing plans and may not be installed as originally shown. Verify the accuracy of the "existing conditions" as shown on the drawings as the demolition work progresses. Perform modifications and additions as necessary to correct for these hidden conditions and allow for the completion of the work.

1.4 Codes, inspections, and fees

- A. The completed electrical installation shall comply with the latest edition of the national electrical code as well as applicable federal, state, and local codes, regulations, and standards including interpretations by appropriate authorities having jurisdiction. Where the drawings and specifications call for workmanship or materials in excess of code or regulatory requirements, the drawings and specifications shall govern.
- B. The work specified herein shall be subject to inspection and approval by state and local authorities having jurisdiction and the engineer. The contractor shall make the necessary arrangements to have the electrical work inspected by appropriate inspector(s) and shall provide two (2) copies of final signed "certificate of inspection" to the owner.
- C. Obtain and pay for licenses, permits, fees and charges for work installed by the contractor. Contractor is responsible to pay fees and charges levied by the electric utility company for connection to electric services.

1.5 Job site safety

- A. The electrical contractor is responsible for electrical job site safety, including safety of people and property during performance of work. This requirement will apply continuously and not be limited to normal working hours.
- B. No act, drawing review or construction review by the owner, the engineers or their consultants, is intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.

1.6 Conditions at the site

- A. Examine the site and be familiar with existing building conditions and limitations prior to submitting bid. No extra payment will be allowed for work required because of these conditions, or if information is viable or readily attainable, for limitations or misunderstanding of existing conditions.
- B. Discrepancies from these documents should be reported to the architect/engineer prior to bid.

1.7 Workmanship and contractor qualifications

- A. Install electrical equipment and materials in a neat and competent manner by persons experienced and skilled in the trade. Haphazard or poor installation will be cause for rejection of work. Exposed components of the electrical systems shall be square and true with building lines and surfaces.
- B. Contractor shall be licensed in the state in which the project is located.

1.8 Coordination of work

- A. Give careful consideration to the work of the general, mechanical and other contractors/subcontractors on the project. Organize and phase the electrical work so that it will not interfere with the work of other trades.
- B. Drawings and specifications for other trades and general construction drawings shall be consulted for coordination information, details, dimensions, etc. Coordinate shafts, chases, furred spaces, suspended ceiling, locations of equipment, etc. The contractor shall review the mechanical-electrical drawings and equipment drawings of other disciplines, including data, security, audio-video, fire alarm, and kitchen. The contractor shall be responsible to report discrepancies between these drawings to the engineer prior to bidding for clarification. Solutions to unreported discrepancies will be determined by the engineer, with no additional compensation due to the contractor.
- C. The location of equipment outlets and wiring shall be verified with the actual equipment or approved shop drawings prior to rough in work. Notify engineer of discrepancies.
- D. Dimensions given on the drawings shall take precedence over scaled dimensions. Dimensions, whether calculated or scaled, shall be verified in the field.
- E. Check actual job conditions before fabricating work. Coordinate with other trades to avoid rework due to field conditions. Changes or additions, subject to additional compensation, shall be made without written authorization and an agreed price, shall be at the contractor's risk and expense.
- F. Coordinate routing of conduit and wire concealed in walls, soffits or ceilings installed by the general contractor. Coordinate work to conceal conduit and wire.
- G. Verify items such as door swings, window locations, casework, etc., before installing electrical equipment or devices.
- H. Make minor adjustments to work where requested by the owner or the owner's representative when adjustments are necessary for proper operation and within the intent of the contract.

1.9 Materials and equipment

- A. Unless otherwise specified, material and equipment shall be new and manufactured by approved or listed manufacturers. Materials and equipment shall meet the requirements of governing codes.
- B. All material and equipment shall be listed and labeled by Underwriters Laboratories, Inc. (UL), as conforming to its standards in every case where such a standard has been established for that type of material or equipment.
- C. Obtain written approval seven days prior to bid, to use proposed substitute material or equipment before contracting to purchase such substitutes. The owner reserves the right to require the removal of material or equipment which does not have this written approval and which does not comply with the specifications, regardless of the state of installation of such equipment.
- D. Where equipment supplied by the contractor has characteristics other than as specified herein, the contractor shall, at no additional cost to the owner, remove and replace the electrical work necessitated by the substituted product.

1.10 Temporary installations

- A. Comply with the owner and general contractor requirements. Electrical work must conform with NEC Article 590, temporary installations.
- B. Continuation of service: maintain continuity of existing equipment to remain. Maintain existing circuits of equipment energized. Restore circuits wiring which are to remain but were disturbed during demolition back to original condition.
- C. Electric power system: provide an electrical distribution system of sufficient size, capacity, and power characteristics required for construction operations.
- D. Provide temporary electrical service as required for the project.

1. Utilize existing building electrical distribution if available, and supplement as required for the project conditions.
2. For service construction or service revisions, coordinate with the utility to provide temporary service for the duration of construction so as not to interfere with service construction. Pay for utility charges associated with the temporary service including energy bills.

- E. Lighting: provide temporary lighting with local switching throughout the construction area. Provides adequate illumination for construction operations, observations, inspections, and traffic conditions.

- F. Where light fixtures exist in the area of construction, utilize existing lights and outlets as much as practical to meet these requirements. Clean and re-lamp each fixture used for temporary at end of construction.

- G. Remove the temporary installation of electrical equipment, raceway and wire at the end of the project. Patch and seal sleeve openings.

1.11 Demolition

- A. Where electrical work to remain is damaged or disturbed in the course of the work, remove damaged portions and provide products of equal capacity, quality, and functionality.
- B. Accessible work indicated as demolished: remove exposed electrical installation in its entirety. Removal of existing electrical distribution system equipment includes equipment's associated wiring, including conductors, cables, exposed conduit, surface metal raceways, boxes, and fittings, back to equipment's source or as indicated.
- C. Abandoned raceway and conduits: where raceway and conduits are shown as abandoned on the drawings; disconnect existing concealed wiring from its source. Remove wiring, cap and label conduit ends. Cut abandoned underground conduits below grade and seal openings. Patch surface to match existing finish.
- D. Temporary disconnection: remove, store, clean, reinstall, reconnect, and make operational components indicated for reconnection.

1.12 Cutting and patching

- A. Workmanship: lay out work in advance. Exercise care where cutting, channeling, chiseling, or drilling of floors, walls, partitions, ceilings, or other surfaces is necessary for proper installation, support, or anchorage of conduit, raceways, or other electrical work. Repair damage to buildings, piping, and equipment using skilled craftsmen or trades involved.
- B. Perform core drilling, cutting and patching necessary for the completion of the electrical work for this project. No structural members shall be disturbed without obtaining written permission of the engineer.

- C. Surfaces which are disturbed by the contractor shall be repaired and refinished to provide a surface equal in strength, durability, and appearance to the original surface.
- D. Where it is necessary to drill or cut concrete surfaces, the edges shall be sharply defined. Core holes shall be made with a rotary drill. Rectangular concrete cuts shall be made with a concrete saw. Do not penetrate post tension slabs prior to x-raying floor.
- E. Penetrations through smoke, fire, hazardous area, or other rated separations shall be fire sealed to preserve the ratings of the separations.
- F. All cutting, drilling, patching, repairing, and refinishing shall be done by persons skilled in appropriate trades.
- G. Clean away rubbish and litter generated during electrical installation.

1.14 Maintenance manual and record drawings

- A. Furnish the owner with a minimum of two (2) printed copies and two (2) digital data DVD's of a manual covering the operation and maintenance of equipment provided under this contract. Submit additional copies as required by the general contract. The manuals shall be in a 3-ring, loose leaf, heavy duty binder and submitted to the architect/engineer for approval. Each manual shall contain the following:
1. Complete manufacturer catalog data, manufacturer's literature, wiring diagrams, detailed operating instructions, and a complete listing of suppliers and distributors where replacement parts and maintenance services are available for installed equipment. Include electrical shop drawings.
 2. Physical description and installation instructions, user's manual and operating instructions.
 3. Replaceable parts list. Include the light fixture schedule with replacement lamps per fixture type.
 4. Inspection certificates, signed by the appropriate inspector.
 5. Full listing of product warranties and extended warranties with registration and contact information.
 6. Data dvd with indexed pdf documents of items in the manual.

- B. Mark up a set of construction documents as work progresses. Show actual circuit routing with dimensional information, sizes, types, etc., equipment location changes, and other changes or deviations between project work, as built, and the contract documents. Markings shall be neat, legible, and permanent. Transfer applicable markings to a second set of documents and provide both sets of record documents to the owner.

1.15 Clean-up

- A. Upon completion of the work and at other times directed, remove materials and scrap generated by the electrical installation and leave the premises in a clean and orderly condition.
- B. Clean electrical equipment interiors prior to energizing and before final acceptance. Clean light fixtures lenses, reflectors and trims. Repair, clean and touch up minor scratches or blemishes on factory painted equipment.
- C. Damaged, dented or refurbished equipment shall be rejected and replaced at the contractor's expense.

1.16 Acceptance demonstration and training

- A. Perform system start-up, testing and programming prior to owner's training. Do not schedule demonstrations until systems are fully operational and ready to turn over to the owner.
- B. Demonstrate to the owner the operation of the electrical installations. The timing of the demonstration will be determined by the owner upon completion of the work.
- C. Properly set automatic time switches to perform switching operations in accordance with schedules provided by the owner's representative, and demonstrate (using the manufacturer's operating instructions) how to override, test and program lighting systems.

1.18 Guarantee and warranties

- A. Furnish the owner with a written guarantee for the period of one (1) year against the failure of part of the electrical systems installed due to faulty material or workmanship without charges, to the owner. Guarantee period to start upon substantial completion or as specified under general and special conditions. Incandescent and halogen lamps are excluded.
- B. Pass one extended warranties or product warranties exceeding one (1) year to the owner.

PART 2 - Products

2.1 General

- A. All materials must be new and bear underwriter's laboratories (UL) label. Materials that are not covered by UL testing standards shall be tested and approved by an independent testing laboratory or a governmental agency. Material not in accordance with these specifications may be rejected either before or after installation.
- B. All equipment and device terminals and lugs rated for 60/75 or 75 degrees c.

2.2 Low voltage conductors and cables

- A. Copper conductors complying with NEMA WC 70/CEA S-95-65S.
- B. Aluminum conductors are prohibited.
- C. Insulation type: XHHW, XHHW-2, THHW, or THWN-2, color coded, color impregnated wire.
- D. Conductor sizes are American Wire Gauge (AWG) or circular mils (cmil) as follows:
1. #12 AWG solid copper.
 2. #10 AWG and larger shall be stranded copper.
 3. Branch circuits must be color coded, color impregnated wire.
- E. Ac, core clad or romex cables are not allowed.
- F. Metal-clad cable type mc, with green ground conductor allowed only where noted in part 3 execution.

2.3 Control voltage conductors and cables

- A. Where indicated on the drawings, provide cables along with associated termination hardware.

1. UTP cable: plenum rated, type CMP category 6, 100-ohm, four-pair. Listed and labeled complying with UL 444 and NFPA 70, UL 444 and NFPA 70, UTP cable connecting hardware: IDC type, using modules designed for punch-down caps or tools.
2. Coaxial cable for CATV, MATV and DBS (less than 50' total length): rg-59 20 AWG, solid, copper-covered steel conductor; gas-insulated, foam-PE insulation. Double shielded with 100 percent aluminum-foil shield and 40 percent aluminum braid. Plenum rated, type CMP.
3. Coaxial cable for CATV, MATV and DBS (50' or greater total length): rg-6; 16 AWG, solid, copper-covered steel conductor; gas-insulated, foam-PE insulation. Double shielded with 100 percent aluminum-foil shield and 60 percent aluminum braid. Plenum rated, type CMP.

- B. Control circuits: conductors not installed in conduit or armor jacketed cable must be plenum rated.
1. Class 1 control circuits: stranded copper, type THWN or XHHN, in raceway or cable with armor jacket.
 2. Class 2 control circuits: stranded copper, type THWN or XHHN, in raceway or power-limited cable concealed in building finishes; in cable tray or on hangers above accessible ceilings.
 3. Class 3 remote-control and signal circuits: stranded copper, type TW or type TF, complying with UL 83. In raceway or power-limited cable concealed in building finishes; in cable tray or on hangers above accessible ceilings.

2.4 Grounding and bonding

- A. Circuits, metal raceway systems, and other permanently installed electrical equipment shall be properly grounded in accordance with the national electrical code to form a continuous, permanent and effective grounding system.
- B. Grounding electrode conductor connections shall be made with solderless pressure type fittings. Where welded connections are practical, connections may be made by the use of suitable welding process. Make connections in strict conformance with the manufacturer's recommendations.
- C. Bond flexible raceway sections with a bare ground conductor separate from the equipment grounding conductor installed with the branch or feeder conductors. Install an external ground conductor with grounding bushings where required.
- D. Isolated ground conductors: green colored insulation with continuous yellow stripes.
- E. Ground rods: 10"x3/4" copper clad steel. Ground rods at exterior area lights: 6"x5/8" copper clad steel.

2.5 Hangers and supports

- A. For individual conduit runs not directly fastened to the structure, use threaded rod and hangers manufactured by Cadys®, Unistrut®, Or Powerstrut®.
- B. Galvanized steel slotted channel support systems with fittings and supports by the same manufacturer.
- C. Vibration and Seismic controls to be provided per IBC, ICC-ES, OSHPD for the State of California

2.6 Raceways and outlet boxes

- A. Provide raceways, fittings, connectors and accessories for a complete raceway system. Raceways include:
1. Rigid metal conduit (RMC); hot-dipped galvanized.
 2. Intermediate metal conduit (IMC); hot-dipped galvanized.
 3. Electrical metallic tubing (EMT); electro-galvanized.
 4. Polyvinyl chloride conduit (PVC) schedule 40 for below grade installations.
 5. Wireways; enamel finish. Hinged type.
 6. Flexible metallic conduit: for final connection in dry locations less than 6' lengths.
 7. Liquid tight flexible metal conduit: for final connection in damp or wet locations less than 6' lengths.
- B. Minimum electrical conduit size: 1/2". Minimum branch circuit or feeder horse run: 3/4". Minimum control voltage and miscellaneous systems conduit: 3/8".
- C. Provide fittings and accessories approved for the purpose, listed for use, with the type conduit or raceway. EMT connectors and couplings shall be steel set-screw type indoors and steel compression type in damp or wet locations and outdoors.
- D. Outlet boxes: 4" square x 1-1/2" deep (or larger) galvanized sheet steel KO-type with plaster ring and cover for general interior use. Cast metal type fs or ft with matching screw covers for exterior and exposed interior locations (guaranteed in damp or wet locations). Larger boxes as required; sized per NEC fill.
- E. Junction boxes shall be same as outlet boxes up to 42 cu. in. Use code-gauge steel in larger sizes with surface or flush-type screw-mounted trim covers. Boxes and covers painted with inhibitor-primed paint inside and out.
- F. Pull boxes shall be same as junction boxes unless indicated otherwise on the drawings, with covers.
- G. Voice, data and miscellaneous low voltage system outlet boxes shall be the type and size required by the system vendor but not smaller than 4-1/16" square x 2-1/8" deep with single-gang ring. Other configurations as shown on the plan.
- H. Light fixtures shall not be used as a raceway unless listed and marked as a raceway in accordance with NEC article 410.64 and as noted in Part 3 - execution.
- I. Electrical conduit installations must be supported per NEC and not exceed 10 feet between

supports,

- J. Floor boxes (in concrete): rectangular, modular, cast boxes with solid brass cover. See plans for devices. Each system to have independent compartments and flip up covers.
- K. Poke through assemblies: factory fabricated multi-channelled through floor raceway/fireslop with complying with UL 514 scuba water exclusion. See plans for service devices and plate construction.
- L. Service poles: factory assembled two compartment channels extending from floor to 6" above ceiling. Steel with baked white enamel or anodized cast aluminum construction as specific on plans.
- M. Surface metal raceways: two compartment steel, devices and finish color as indicated on plans. Wiremold G4000 or equal, other types of surface metal raceways are as specified on plans.

2.8 Identification and labeling

- A. Label control devices and device enclosures with individual name plates or legend plates.
- B. Individual name or legend plates: black laminated plastic plates with white cut letters. Paper, foil or type markers attached with adhesives shall not be used.
- C. Engraved, laminated acrylic or melamine label punched or drilled for screw mounting. White letters on a dark-gray background. Minimum letter height shall be 3/8 inch. Label the following equipment:
1. Panelboards, electrical cabinets, and enclosures.
 2. Access doors and panels for concealed electrical items.
 3. Electrical breakers in existing distribution panels.
 4. Transformers.
 5. Emergency system boxes and enclosures.
 6. Disconnected switches.
 7. Enclosed circuit breakers.
 8. Motor starters.
 9. Push-button stations.
 10. Contactors.
 11. Remote-controlled switches, dimmer modules, and control devices.
 12. Panels, terminal cabinets, and racks.
- D. Accessible raceways and cables of auxiliary systems: identify the following systems at panel and junction box locations within each room as follows:
1. 120/208 volt: mark covers with panel and circuit numbers.
 2. 277/480 volt: mark covers with panel and circuit numbers.
- F. Receptacles: identify panelboard and circuit number from which served. Use pre-manufactured not stamped or engraved machine printing with black filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

2.11 Panelboards

A. Reuse Existing.

2.12 Wiring devices

A. Wiring devices shall be installed in metal device boxes.

- B. Switches and receptacles shall be Cooper, Hubbell, Leviton, Pass & Seymour, or approved equal subject to approval by the engineer, color shall be grey for normal power and red for emergency power. Special color device outlets and matching cover plate as noted on the plans.
- C. Switches shall be heavy duty grade, federal specification fs, ac, quiet type, 20-amp, 120/277-volt, with silver alloy contacts, equal to Hubbell #5362.

- D. General purpose duplex receptacles shall be heavy duty grade, federal specification fs, NEMA 5-20; 20-amp, 125-volt, 3-wire grounding type devices with steel one piece ground strap; thick pole grounding to the outlet box.

- E. Ground fault circuit interrupter (GFI) duplex receptacles: heavy duty grade, federal specification fs, 20-amp devices, GFI receptacles unit wired self-contained and not be connected to feed through unless specifically noted on the drawings.

F. NEC weather resistant rating in damp or wet locations, suitable for "while-in-use" applications.

G. Tamper resistant rating in areas required by the NEC.

H. AFCI outlets where required by the NEC.

I. Isolated ground receptacles: orange in color or orange triangle on plate.

J. Surge protective device (SPD): type 3 duplex receptacle with indication light and audible alarm.

- K. Cover plates: stainless steel type 302 as manufactured by Eagle, Bryant, General Electric, Hubbell or Leviton.

1. Special color plastic cover plates to match to style line type receptacles as noted on the plans.

- L. GFCI protected with "while-in-use" weatherproof coverplates for outdoor weatherproof duplex receptacles.
- 2.13 Fuses

A. One-time cartridge fuses manufactured by Busman, Gould Shawmut, or Little Fuse.

- B. Furnish and install fuses of the types and ratings designated in the drawings and specifications in each fusible device installed by the contractor.

1. Feeder and branch circuits class RK1 time delay.
2. Motor circuits class RK5 time delay.
3. Control circuit fuses must be time delay.

2.14 Enclosed switches, circuit breakers and controllers

- A. Disconnect switches: heavy duty, ac, single throw safety switches, built in accordance with NEMA requirements with a visible interlock and quick-make, quick-break mechanism. Each switch shall be fusible unless non-fusible (NF) is specifically indicated. NEMA 1 enclosures in dry locations and NEMA 3W where exposed to the weather. Furnish neutral lug kit when circuit has a neutral.

- B. Provide auxiliary contacts to shut down VFD prior to disconnecting power. Provide rejection fuses where noted.

C. Full voltage non reversing starters size 0 minimum.

- D. Starters must be combination starters with molded case circuit breaker or fused disconnect, as noted on the drawings, with fused control transformer, auxiliary contacts, cover mounted HOA and pilot lights.

- E. Fractional HP starters quick make quick break single pole switches for integrally protected motors.

- F. Multi-pole horse power rated switches or enclosed circuit breakers in flush NEMA 1 enclosures where a means of disconnect is required in finished spaces.

G. All devices NEMA rated for the environment they are located.

3.1 General

- A. Electric system layouts indicated on the drawings are generally diagrammatic and shall be followed as closely as actual construction and work of other trades will permit. Govern exact routing of cable and wiring and the locations of outlets by the structure and equipment served. Use dimensions from architectural drawings.

- B. Consult other drawings, verify scales and report dimensional discrepancies or other conflicts with architect before submitting bid.

- C. All home runs to panelboards are indicated as starting from the outlet nearest the panel and continuing in the general direction of that panel. Continue such circuits to the panel as through the routes were completely indicated. Terminate homeruns of signal, alarm and communication systems in a similar manner.

- D. Avoid cutting and boring holes through structure or structural members wherever possible. Obtain prior approval of structural engineer and conform to structural requirements when cutting or boring the structure is necessary and permitted.

- E. Furnish and install necessary hardware, hangers, blocking, brackets, bracing, runners, etc., required for equipment specified under this section.

F. Provide necessary backing required to insure rigid mounting of outlet boxes.

3.2 Low voltage power conductors and cables

- A. Provide #12 branch circuit conductors for 120v, 20 amp circuits less than 75' (100' for 277v circuits). Provide a minimum #10 branch circuit conductors for 120v, 20 amp circuits over 75' (100' for 277v circuits) and increase conductor and conduit size to limit voltage drop to 3% maximum.

- B. Where more than three current carrying conductors are installed in a single raceway (e.g. combining multi-circuit homeruns), conductor ampacity shall be de-rated as required by the NEC.

C. Provide dedicated neutral conductors for each 120v and 277v branch circuit.

- D. Feeder and branch circuit conductors must be stranded copper, single conductors in raceway.
- E. Megger and record insulation resistance of 600 volt insulated conductors size #3/0 and larger using 500 volt megger for one minute. Make tests with circuits isolated from source and load.

F. Metal clad cable with green ground conductor allowed only for the following conditions:

1. Above accessible ceilings for final connections from junction boxes to light fixtures not exceeding 6' in length.
2. Final connection not exceeding 6' in length to rotating or vibrating equipment.
3. Allowed for branch circuits fished into existing wall construction.
4. Allowed in casework or built up structures where feasibility is required.

4.3 Grounding and bonding

- A. The building and electrical systems shall be grounded and bonded in accordance with the NEC, IEEE and best practices.
- B. Electrical service and separately derived alternating current systems shall be grounded in accordance with NEC article 250.

- C. All feeder and branch circuits shall have a green copper ground conductor run with the phase and neutral conductors.

- D. Bonding interior metal ducts: bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install listed bonding jumper to bond across flexible duct connections to achieve continuity.

- E. Provide a minimum #8 copper ground conductor, or larger as indicated on the drawings, and a 1/2" ground bus at telecommunication demarcation location.

3.5 Hangers and supports

- A. Conduit and cable support devices must be steel with hangers and supports suitable for raceway or cable must be supported.

- B. Fabricated metal equipment support assemblies must be bolted structural steel or steel slotted support systems calculated by a registered structural engineer.

- C. Concrete bases installed by the electrical contractor. Base must be nominally 3000 psi concrete with dimensions noted on the drawings. Install for floor mounted electrical equipment.

3.6 Raceways and outlet boxes

A. Enclose electrical power wiring in conduit.

B. Permitted uses for EMT, IMC or RMC as follows:

1. Above ground: use EMT, IMC or RMC only.
2. Locations subject to mechanical injury: IMC or RMC only.
3. Dry locations and not subject to mechanical injury: EMT, IMC or RMC.
4. Damp or wet locations: IMC or RMC

C. Use flexible conduits in the following applications:

1. Recessed lighting fixtures.
2. Motor connections.
3. At building joints.
4. In damp or wet locations flexible connections must be liquid tight type.

- D. Conduit cast in concrete floors are not allowed.
- E. Conduit below grade must be PVC or IMC or RMC.
- F. Fillings for EMT shall be steel compression type or steel self-screw type. Die cast filling are not allowed.

- G. Install nylon pull cords in empty conduits.
- H. Conduit installation for low voltage systems to have a maximum of 180 degrees total bends between pull boxes.
- I. Provide expansion fittings crossing expansion joints or spanning between isolated structures.
- J. Install surface raceways with required fittings, accessories and device outlets noted on plans. Conceal conduit connections.
- K. General conduit installation:

1. Run conduit concealed unless otherwise noted or shown.
2. Run conduit parallel to or at right angles to center lines of columns and beams.
3. Conduits above ceiling shall not obstruct removal of ceiling tiles, lighting fixtures, air diffusers, etc.
4. Conduits shall not cross duct shaft or area designated as future duct shaft horizontally. Conduit riser, when allowed in duct shaft must be coordinated with mechanical work or avoid conflict.

L. Conduit supports:

1. Support conduits with underwriter's laboratories listed steel conduit supports at intervals required by the national electric code. Wires or sheet metal studs are not acceptable for conduit support. Use conduit hangers for conduits not directly fastened to structure and for multiple conduit runs. Do not attach conduit to mechanical ducts or pipes.
2. Avoid attaching conduit to fan plenums. When it is necessary to support conduit from fan plenum, provide a length of flexible conduit between portions attached to fan plenum and portion attached to the building to minimize transmission of vibration to the building structure.

M. Conduit penetration:

1. Fire rated floor or wall: install conduit in conduit sleeve or framed opening. Seal penetration with the retardant sealant specified herein.
2. Roof or exterior wall: avoid penetrating roof or exterior wall where possible. Where penetrations are necessary, building weatherproof integrity must be preserved.
3. Sound insulated or air plenum wall: install conduit in conduit sleeve and seal penetration.
4. Non-fire rated dry wall: conduit sleeves are not required. Penetrations must be sealed with plaster prior to painting. Penetrations made after wall finish is applied must be as small as possible and provided with escutcheons, one on each side of wall.
5. Suspended ceiling: cut hole as small as possible to permit conduit penetration. Provide escutcheon for each conduit below ceiling.

N. Outlet boxes:

1. Provide outlet boxes and pull boxes as required to accommodate lighting and receptacle branch circuit wiring.
2. Outlet boxes must not be installed back-to-back.
3. Outlet boxes used for fire voltage incandescent and halogen wall box dimmers may not be ganged unless noted on the drawings. Where wall box dimmers are shown ganged or grouped under one cover with other switches, derate the dimmers per manufacturer's installation instructions.
4. Provide cast steel floor boxes to accommodate power and data connections to free standing equipment and furniture partitions.
5. All outlet boxes shall be two-gang or 4" square x 2" deep minimum with plaster ring sized as required.
6. Exterior boxes for branch circuits must be cast aluminum with threaded hubs.

O. Floor boxes, poke-through, service poles and multi-outlet assemblies:

1. Adjust floor service outlets and service poles to suit arrangement of partitions and furnishings.

3.8 Underground raceways and boxes

- A. Underground conduits shall be schedule 40 PVC, IMC or RMC buried in earth. Transitions through concrete slabs, pre-manufactured bends or elbows must be IMC or RMC conduit with corrosion protection.

- B. Install underground traceable, plastic warning tape 12" above each feeder conduit or groups of branch circuit conduits.

- C. Install exterior branch circuit or feeder handholes in landscape areas. Do not install in sidewalks, roadways or parking lot subject to pedestrian or vehicle traffic.

3.9 Identification and labeling

- A. Provide nameplates for switchgears, panelboards, and similar devices. Nameplates shall be screwed (no adhesive) engraved plastic or photo-etched metallic nameplate identification showing panel designation, voltage and phase.

- B. Provide machine labels on lighting switches and convenience and special purpose receptacles to show panel and circuit number to which the device is connected.

- C. Panelboard schedules: after