HYBRID OR #1

MECHANICAL REVISIONS REQUIRE DOH APPROVAL - PROVIDE APPROVED PLANS ON SITE

City of Puyallup
Building
ACCEPTED
JMontgomery
04/05/2024
9:46:10 AM

CITY OF PUYALLUP STATE OF WASHINGTON

MULTICARE GOOD SAMARITAN HOSPITAL

401 15TH AVE SE
PUYALLUP, WA 98372
11/17/2022

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS (MIN. PLAN SIZE 24" X 36")

PRCTI20221788 - REVISION
#5 - MECHANICAL
#6 - ARCTHITECT
STRUCTURAL SHEETS

PROVIDE ALL REVISED SHEETS IN PLAN SET ON SITE FOR INSTALLATION AND INSPECTIONS.

CLARK KJOS ARCHITECTS, LLC

1005 REGISTERED ARCHITECT SCOTT D. COMBS STATE OF WASHINGTON

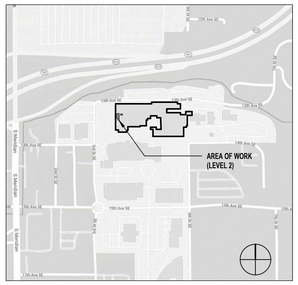
City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

Good Samaritan
A part of MultiCare Health System

PROJECT INFORMATION

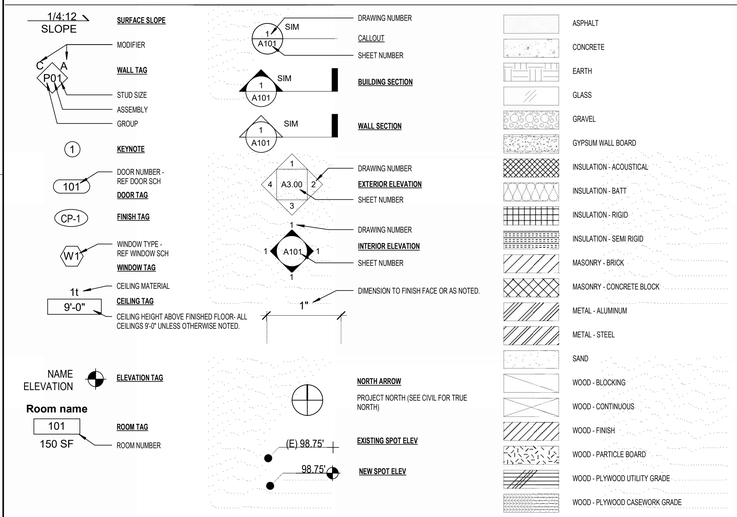
PERMIT #: PRCTI20221788
DOH CRS #: 61364387
PROJECT NAME: MULTICARE GOOD SAMARITAN HOSPITAL HYBRID OR #1
SITE ADDRESS: 401 15TH AVE SE, PUYALLUP, WA 98372
PARCEL NUMBER: 9810000016
LEGAL DESCRIPTION: SECTION 34 TOWNSHIP 20 RANGE 04 QUARTER 23 WOODS 1ST CANNOT BE SOLD OR SUBD WITHOUT 001-4 & 001-5 LOT 1 OF BLA 2010-06-15-5001 DESC AS BEG AT A PT 30 FT E & 151.05 FT N OF INTER OF 15TH AV SE & 3RD ST SE TH N 322.08 FT TH N 305.27 FT TH E 692.45 FT TH S 78 DEG 58 MIN 52 SEC E 0.44 FT TH S 49.97 FT TH E 40.98 FT TH S 43.29 FT TH N 41.04 FT TH S 191.78 FT TH W 30 FT TH S 196.6 FT TO BEG CURVE CONCAVE TO NW HAVING A RAD OF 19.5 FT & C/A OF 59 DEG 50 MIN 20 SEC & BEING SUBTENDED BY A CHORD WHICH BEARS S 56 DEG 53 MIN 06 SEC W 19.45 FT TH SWLY & WLY ALG SD CURVE 20.37 FT TO PT OF REVERSE CURV TH WLY & SWLY & SLY 90.9 FT CONCAVE TO SE HAVING A RAD OF 60.5 FT & C/A OF 86 DEG 05 MIN 15 SEC TH S 3.26 FT TH SLY, SWLY & WLY 14.92 FT ALG CURVE CONCAVE TO NW HAVING A RAD OF 9.5 FT & C/A OF 89 DEG 59 MIN 59 SEC TH W 107.24 FT TO BEG OF CURVE CONCAVE TO NW HAVING A RAD OF 55.98 FT & C/A OF 81 DEG 37 MIN 04 SEC & BEING SUBTENDED BY CHORD WHICH BEARS S 49 DEG 34 MIN 17 SEC W 73.42 FT TH SLY, SWLY & WLY ALG SD CURVE 80.07 FT TH W 6.43 FT TH S 131.8 FT TH SLY & SELY 14.27 FT ALG SD CURVE CONCAVE TO E HAVING A RAD OF 25 FT & C/A OF 32 DEG 42 MIN 11 SEC TH N 88 DEG 06 MIN 01 SEC W 77.46 FT TO BEG OF CURVE CONCAVE TO N HAVING A RAD OF 40 FT & A C/A OF 43 DEG 31 MIN 52 SEC & BEING SUBTENDED BY CHORD WHICH BEARS S 70 DEG 08 MIN 03 SEC W 29.66 FT TH SWLY & WLY ALG SD CURVE 30.39 FT TH N 88 DEG 06 MIN 01 SEC W 238.87 FT TO BEG OF A CURVE CONCAVE TO NE HAVING A RAD OF 63 FT & A C/A OF 65 DEG 47 MIN 29 SEC & BEING SUBTENDED BY CHORD WHICH BEARS N 48 DEG 11 MIN 19 SEC W 68.43 FT TH WLY, NWLY & NLY ALG SD CURVE 72.34 FT TH N 12 DEG 28 MIN 32 SEC W 81.31 FT TO POB EXC POR DETER TAXABLE & EXC POR DETER EXEMPT PER DOR REG # 01777-001 TOGW VAC ORD 2868 EASE OF RECORD OUT OF 981000-065-0 SEG 2011-0091 BB 10/11/10 BB DC0035416S 5/2/2014 KG
ZONING: 6510-HOSPITAL, COMMERCIAL
PROPERTY OWNER MULTICARE HEALTH SYSTEM
TENANT: MULTICARE GOOD SAMARITAN HOSPITAL
PROJECT OVERVIEW: CONVERSION OF EXISTING OR#1 SUITE AND AUXILIARY SPACES INTO A HYBRID OR SUITE; RECONFIGURATION OF EXISTING CONTROL ROOM, STORAGE, AND SUB-STERILE ROOM TO ACCOMODATE NEW HYBRID OR SUITE

VICINITY MAP



SITE LOCATION:
401 15TH AVE SE
PUYALLUP, WA 98372

SYMBOLS AND FILL PATTERNS



PROJECT CONTACTS

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2013 4th Ave #200
Seattle, WA 98121
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EMAIL: esweet@mazzetti.com

ABBREVIATIONS

A
ACOUS ACOUSTICAL
ACT ACOUSTICAL CEILING TILE
A.D AREA DRAIN
ADJ ADJUSTABLE
AFF ABOVE FINISH FLOOR
AGGR AGGREGATE
ALUM ALUMINUM
APPROX. APPROXIMATE
ARCH ARCHITECTURAL
ASPH ASPHALT
B
BCS BABY CHANGING STATION
BD BOARD
BITUM BITUMINOUS
BLDG BUILDING
BLK BLOCKING
BR BUMPER RAIL
BW BLANKET WARMER
C
CAB CABINET
CB CATCH BASIN
CER CERAMIC
CI CAST IRON
CIP CAST IN PLACE
CG CORNER GUARD
CPT CARPET TILE
CR CARD READER
℄ CENTERLINE
CLO CLOSET
CLR CLEAR
CJ CONTROL JOINT
COL COLUMN
CONC CONCRETE
CONSTR CONSTRUCTION
CONT CONTINUOUS
CORR CORRIDOR
D
DBL DOUBLE
DEPT DEPARTMENT
DF DRINKING FOUNTAIN
DET DETAIL
DIA DIAMETER
DIM DIMENSION
DISP DISPENSER
DN DOWN
DWR DRAWER
DS DOWNSPOUT
DW DISHWASHER
DWG DRAWING
E
E EAST
(E) EXISTING
EA EACH
EJ EXPANSION JOINT
ELEC ELECTRICAL
ELEV ELEVATION
EMER EMERGENCY
ENCL ENCLOSURE
EP ELECTRICAL PANEL
EQ EQUAL
EQUIP EQUIPMENT
EWC ELECTRIC WATER COOLER
EXP EXPOSED
EXT EXTERIOR
F
FA FIRE ALARM
FD FLOOR DRAIN
FDN FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FF FACTORY FINISH
FHC FIRE HOSE CABINET
FIN FINISH
FL FLOOR
FOC FACE OF CONCRETE
FOF FACE OF FINISH
F/O FACE OF
FOS FACE OF STUDS
FT FOOT/ FEET
FTG FOOTING
FTP FIRE TREATED PLYWOOD
FURR FURRING
FUT FUTURE
G
GA GAUGE
GALV GALVANIZED
GB GRAB BAR
GL GLASS
GND GROUND
GR GRADE
GWB GYPSUM WALL BOARD
H
HB HOSE BIB
HC HOLLOW CORE
HDWD HARDWOOD
HDWR HARDWARE
HM HOLLOW METAL
HORIZ HORIZONTAL
HSD HAND SANITIZER DISPENSER
HT HEIGHT
I
IBC INTERNATIONAL BUILDING CODE
IC INTEGRAL COVE
ID INSIDE DIAMETER
INSUL INSULATION
INT INTERIOR
J
JAN JANITOR
JT JOINT
L
LAB LABORATORY
LAM LAMINATE
LAV LAVATORY
LT LIGHT
LVT LAMINATE/LUXURY VINYL TILE
M
MAX MAXIMUM
MECH MECHANICAL
MEMB MEMBRANE
MFR MANUFACTURER
MH MANHOLE
MIN MINIMUM
MIR MIRROR
MISC MISCELLANEOUS
MO MASONRY OPENING
MTD MOUNTED
MUL MULLION
MW MICROWAVE
N
N NORTH
(N) NEW
NIC NOT IN CONTRACT
NS NURSE STATION
NTS NOT TO SCALE
O
OA OVERALL
OC ON CENTER
OCC OCCUPANT
OD OUTSIDE DIAMETER
OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI OWNER FURNISHED, OWNER INSTALLED
OPNG OPENING
OPP OPPOSITE
ORD OVERFLOW ROOF DRAIN
P
P PAINT
PP PUSH PAD
PEB PLASTIC EDGE BANDING
PL PLASTIC LAMINATE
PT PATIENT TOILET
PTD PAPER TOWEL DISPENSER
R
(R) RELOCATE
RAD RADIUS
RB RESILIENT BASE
RCP REFLECTED CEILING PLAN
RD ROOF DRAIN
REF REFRIGERATOR
REFER REFERENCE
REQ REQUIRED
RM ROOM
RO ROUGH OPENING
S
S SOUTH
SCW SOLID CORE WOOD
SCD SEAT COVER DISPENSER
SCH SCHEDULE
SD SOAP DISPENSER
SECT SECTION
SF SQUARE FOOT/ FEET
SG SPLASH GUARD
SHT SHEET
SIM SIMILAR
SND SANITARY NAPKIN DISPENSER
SNR SANITARY NAPKIN RECEPTACLE
SOC STATEMENT OF CONDITIONS
SPT SPECIMEN PASS THROUGH
SQ SQUARE
SS SOLID SURFACE
ST STAFF TOILET
SST STAINLESS STEEL
STA STATION
STC SOUND TRANSMISSION CLASS
STD STANDARD
STL STEEL
STRUCT STRUCTURAL
SUSP SUSPENDED
SV SHEET VINYL
SYM SYMMETRICAL
T
TB TOWEL BAR
TBD TO BE DETERMINED
TC TOP OF CURB
TEL TELEPHONE
T&G TONGUE AND GROOVE
THK THICK
T/O TOP OF
TOP TOP OF PAVEMENT
TPD TOILET PAPER DISPENSER
TV TELEVISION
TOW TOP OF WALL
TYP TYPICAL
U
US UNDERSIDE
UL UNDERWRITERS LABORATORY
UNF UNFINISHED
UNO UNLESS NOTED OTHERWISE
V
VERT VERTICAL
VEST VESTIBULE
VIF VERIFY IN FIELD
W
W WEST
WI WITH
WC WATER CLOSET
WD WOOD
WF WINDOW FILM
WO WITHOUT
WP WALL PROTECTION
WPR WATERPROOF
WRB WEATHER RESISTANT BARRIER

SHEET LIST

DoH DEFERRED SUBMITTAL

C-ARM VIBRATION CONTROL (ARCHITECTURAL, STRUCTURAL ROOF DOCUMENTS)

HYBRID OR #1
MULTICARE GOOD SAMARITAN HOSPITAL
401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023

REVISIONS
1 ASI 001 02.27.2023
2 ASI 002 04.07.2023
6 ASI 005 03.15.2024

23004

GENERAL NOTES, PROJECT INFORMATION & CONTACT

G0.0

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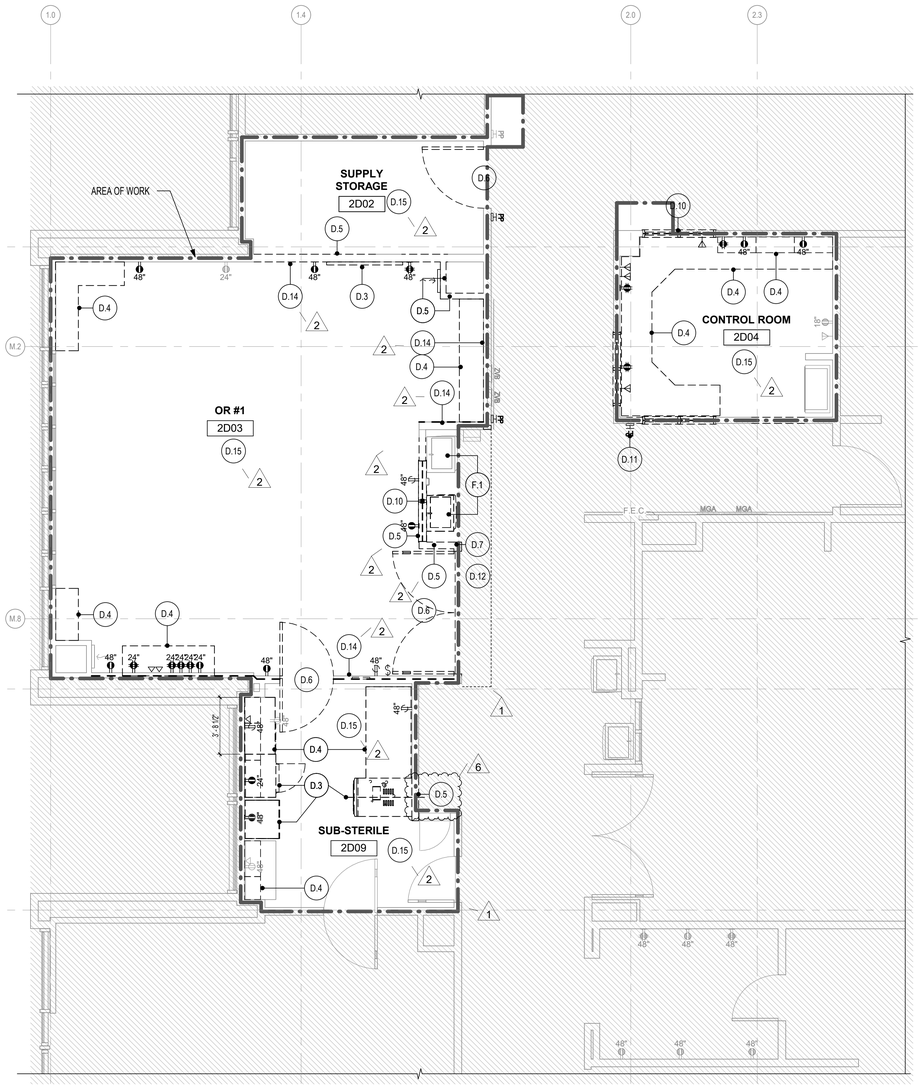
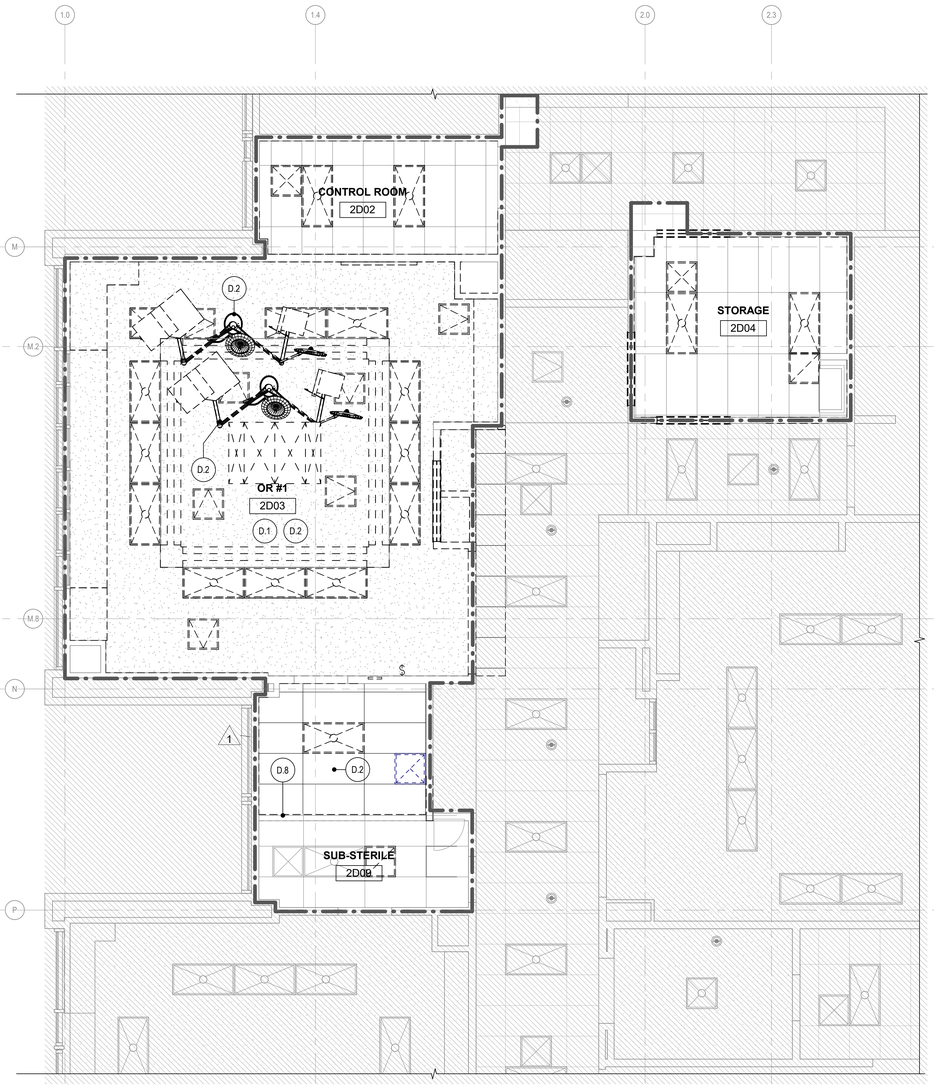
PRCTI20221788 REVISED SHEET



1 LEVEL 2 - ENLARGED DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 LEVEL 2 - ENLARGED DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VERIFY LIMITS OF DEMOLITION WORK.
2. THIS DRAWING IDENTIFIES ONLY MAJOR WORK FOR DEMOLITION AND REMOVAL. ALL AREAS OF DEMOLITION SHALL BE CLEARED OF ALL ITEMS MAJOR AND MINOR TO RECEIVE INSTALLATION OF NEW CONSTRUCTION AND FINISHES.
3. SEE REFLECTED CEILING PLANS FOR WORK THAT MAY IMPACT DEMOLITION.
4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
5. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES AND CONDITIONS PRIOR TO COMMENCING WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. REPORT ANY DISCREPANCIES BETWEEN DIMENSIONS FOUND IN FIELD AND DIMENSIONS ON DRAWINGS TO ARCHITECT.
6. LOCATE ALL WIRES, PIPES, UTILITIES, STRUCTURAL MEMBERS, ETC. PRIOR TO ANY DEMOLITION. CUTTING OF ANY ITEM WHICH IS NOT PART OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, INCLUDING ANY TESTING OR SPECIAL OBSERVATION TO CORRECT THE PROBLEM.
7. PATCH AND PAINT WALLS, FLOORS, AND SUBFLOOR TO MATCH EXISTING WHERE WORK HAS DISTURBED EXISTING CONDITIONS.
8. ALL EXISTING FINISHES ARE TO BE PROTECTED FROM DAMAGE. DAMAGED AREAS SHALL BE REPAIRED AT NO COST TO THE OWNER.
9. SEE ELECTRICAL PLAN FOR ELECTRICAL DEMOLITION.

2

LEGEND

ITEM TO BE DEMOLISHED

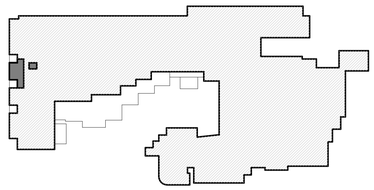
ITEM TO REMAIN

KEYNOTES

D.1	DEMOLISH HARD LID CELING
D.2	DEMOLISH CEILING MOUNTED APPURTENANCES
D.3	REMOVE EXISTING EQUIPMENT
D.4	REMOVE EXISTING CASEWORK; COORDINATE WITH OWNER FOR SALVAGE AND STORAGE FOR REUSE AS NECESSARY
D.5	DEMOLISH PARTITION TO EXTENTS NECESSARY IN PREPARATION FOR NEW CONSTRUCTION
D.6	REMOVE EXISTING DOOR, FRAME, AND HARDWARE; COORDINATE WITH OWNER FOR SALVAGE AND STORAGE FOR REUSE AS NECESSARY
D.7	DEMOLISH PARTITION, DOORS, AND ALL RELATED APPURTENANCES TO EXTENTS NECESSARY FOR NEW CONSTRUCTION; COORDINATE WITH OWNER FOR SALVAGE AND STORAGE FOR REUSE AS NECESSARY
D.8	DEMOLISH CEILING TO EXTENTS NECESSARY FOR NEW CONSTRUCTION; PATCH AND REPAIR GRID AS NECESSARY
D.10	REMOVE EXISTING WINDOW AND FRAME
D.11	REMOVE EXISTING PUSH PAD; RELOCATE AND INSTALL AT NEW LOCATION
D.12	REMOVE EXISTING FLOORING AND WALL BASE AND REPLACE WITH NEW
D.14	REMOVE EXISTING GYPSUM BOARD FOR INSTALLATION OF LEAD-LINED GYPSUM BOARD.
D.15	REMOVE FINISH FLOORING. PREP SLAB FOR NEW FLOORING.
F.1	NEW INTEGRAL COVE AT AREAS OF WORK; MATCH EXISTING FINISH

KEY PLAN - LEVEL 2

AREA OF WORK



CLARK // KJOS ARCHITECTS, LLC

11095 REGISTERED ARCHITECT
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CITY OF PUYALLUP
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23004

LEVEL 02 - DEMOLITION FLOOR & REFLECTED CEILING PLAN

AD1.2

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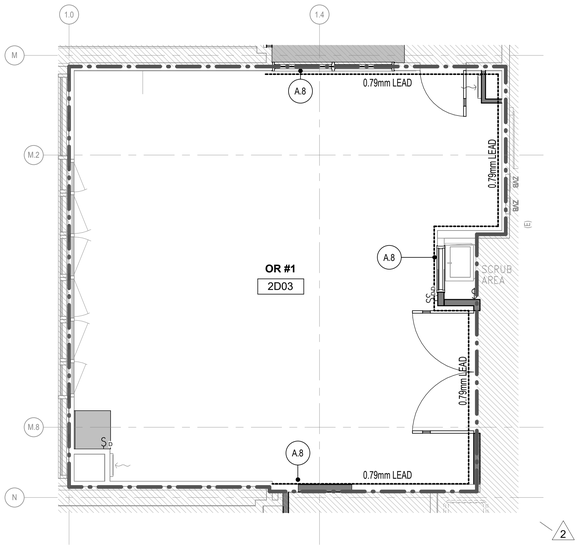
PRCTI20221788 REVISED SHEET



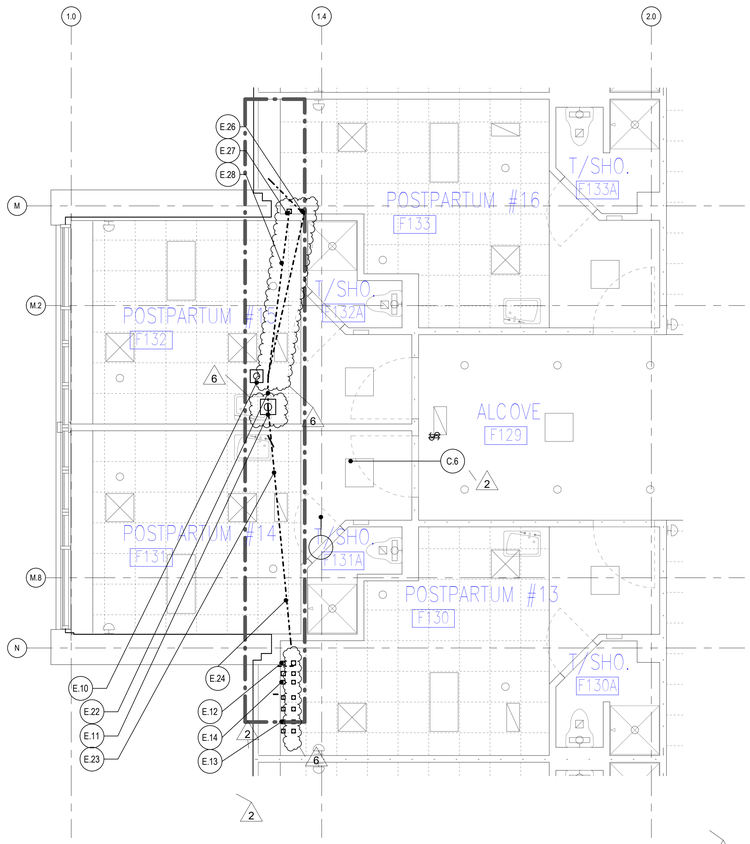
3 LEAD SHIELDING PLAN
1/4" = 1'-0"

GENERAL NOTES

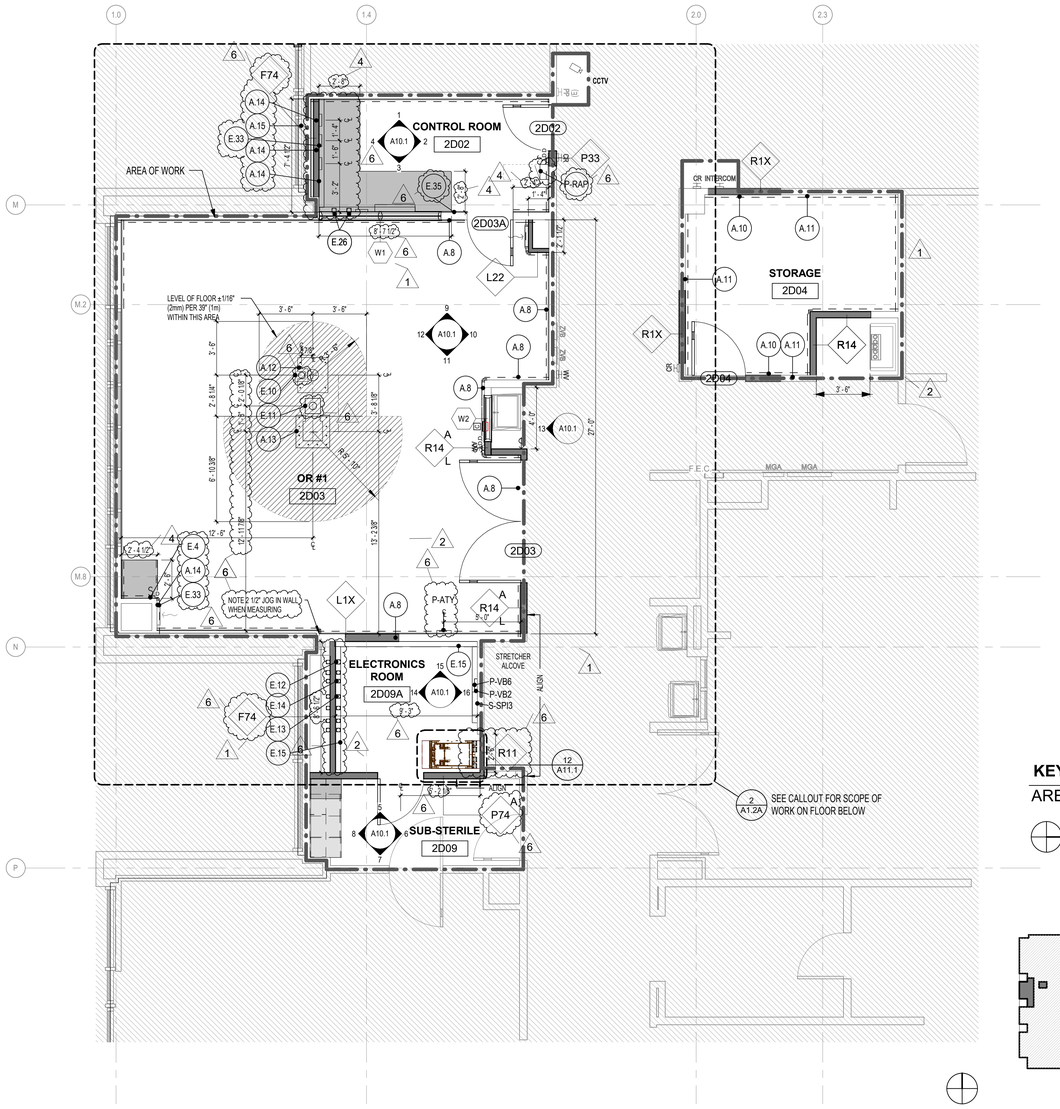
1. ALL DIMENSIONS TO FACE OF FINISH UNLESS NOTED OTHERWISE.
2. SEE ELECTRICAL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
3. EQUIPMENT SHOWN IS FOR REFERENCE ONLY. ACTUAL LOCATIONS OF EQUIPMENT TO BE PROVIDED BY THE EQUIPMENT VENDOR/MANUFACTURER.

KEYNOTES

	A.8	REFER TO PHYSICIST LEAD SHIELDING REPORT FOR LEAD SHIELDING REQUIREMENTS.
	A.10	INFILL WALL WITH 1-HOUR FIRE-RESISTANCE RATED PARTITION TYPE R14
	A.11	UPGRADE WALL TO 1-HOUR FIRE-RESISTANCE RATED PARTITION TYPE R14
	A.12	PREP FLOOR FOR RECESSED PHILIPS AD7 FLOOR PLATE. SEE STRUCTURAL DRAWINGS AND PHILIPS SHEET SD1.
	A.13	PREP FLOOR FOR RECESSED PHILIPS CLEA FLOOR PLATE. SEE STRUCTURAL DRAWINGS AND PHILIPS SHEET SD1.
	A.14	PROVIDE WALL BACKING FOR MONITOR SUPPORTS.
2	A.15	PROVIDE WINDOW FILM ON INTERIOR SURFACE OF WINDOWS TO MATCH OTHER FILMS USED N FACILITY. SEE RFI
	C.6	REPLACE OR PATCH ANY CEILING AFFECTED BY CONSTRUCTION TO MATCH PRE-CONSTRUCTION CONDITION.
	E.4	J-BOX FOR CLOCK TIMER
	E.10	10-INCH WIDE X 10-INCH LONG X 6-INCH DEEP FLOOR BOX, UNDER FLOOR WITH 5-INCH DIA CORE DRILL TO UNDERSIDE OF AD7 FLOOR PLATE. PROVIDE PROTECTION AROUND EDGES OF OPENING. FIRESTOP OPENING IN 2-HR FLOOR.
	E.11	12-INCH WIDE X 12-INCH LONG X 4-INCH DEEP FLOOR BOX, UNDER FLOOR WITH 6-INCH DIA CORE DRILL TO UNDERSIDE OF CLEA FLOOR PLATE. SEE "DETAIL - CLEA FLOOR PLATE CABLE ENTRANCE" ON PHILIPS SHEET ED3" FOR CABLE ROUTING METHODS. PROVIDE PROTECTION AROUND EDGES OF OPENING. FIRESTOP OPENING IN 2-HR FLOOR.
	E.12	CORE DRILL FOR CONDUITS TO MA CABINET. CONDUIT DIAMETERS (1) 1.5", (1) 2", (1) 3". SEE ELECTRICAL AND PHILIPS DRAWINGS. FIRESTOP CONDUIT PENETRATIONS IN 2-HR FLOOR ASSEMBLY. CONFIRM EXACT LOCATION WITH PHILIPS.
2	E.13	CORE DRILL FOR CONDUITS TO ME CABINET. CONDUIT DIAMETERS (1) 1"-(3) 1.5", (1) 2.5". SEE ELECTRICAL AND PHILIPS DRAWINGS. FIRESTOP CONDUIT PENETRATIONS IN 2-HR FLOOR ASSEMBLY. CONFIRM EXACT LOCATION WITH PHILIPS.
	E.14	CORE DRILL FOR CONDUITS TO MR CABINET. CONDUIT DIAMETERS (3) 2"-(1) 2.5". SEE ELECTRICAL AND PHILIPS DRAWINGS. FIRESTOP CONDUIT PENETRATIONS IN 2-HR FLOOR ASSEMBLY. CONFIRM EXACT LOCATION WITH PHILIPS.
	E.15	WALL RACEWAY (WR1), 10"W x 4"D, SURFACE MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. BOTTOM OF RACEWAY AT 5" AFF. PROVIDE GROMMET OPENINGS PER PHILIPS DRAWINGS.
	E.22	PROVIDE MULTIPLE UNDERFLOOR CONDUITS FROM FLOOR BOX AT PHILIPS MSA TO FLOOR BOXES AT PHILIPS MA AND MR CABINETS. SEE ELECTRICAL DRAWINGS AND PHILIPS SHEET E3.
	E.23	PROVIDE MULTIPLE UNDERFLOOR CONDUITS FROM FLOOR BOX AT PHILIPS SP TO FLOOR BOXES AT PHILIPS MA AND MR CABINETS. SEE ELECTRICAL DRAWINGS AND PHILIPS SHEET E3.
	E.24	PROVIDE MULTIPLE UNDERFLOOR CONDUITS FROM FLOOR BOX AT PHILIPS SP TO FLOOR BOX AT PHILIPS ME CABINET. SEE ELECTRICAL DRAWINGS AND PHILIPS SHEET E3.
	E.26	CORE DRILL FOR CONDUIT FROM MSA TO PHILIPS ITEM IC. CONDUIT DIAMETER 3". SEE ELECTRICAL AND PHILIPS DRAWINGS. FIRESTOP CONDUIT PENETRATIONS IN 2-HR FLOOR ASSEMBLY. CONFIRM EXACT LOCATION WITH PHILIPS.
	E.27	CORE DRILL FOR CONDUITS FROM MSA TO PHILIPS ITEM INT. CONDUIT DIAMETERS (2) 1.5". SEE ELECTRICAL AND PHILIPS DRAWINGS. FIRESTOP CONDUIT PENETRATIONS IN 2-HR FLOOR ASSEMBLY. CONFIRM EXACT LOCATION WITH PHILIPS.
	E.28	PROVIDE MULTIPLE UNDERFLOOR CONDUITS FROM MSA TO WALL DUCT ON WEST WALL OF CONTROL ROOM FOR PHILIPS ITEMS IC AND INT.
	E.33	PROVIDE JUNCTION BOX FOR SPI3 TOUCH PANEL (CFCI), 4"W X 4"H, SINGLE-GANG MUD RING. MOUNT BOX WITHIN 18" OF THIS LOCATION.
	E.35	PROVIDE JUNCTION BOX (CFCI) FOR STRYKER CHROMOPHARE WALL CONTROL PANEL (VFVI). STANDARD 4X4 JUNCTION BOX AT 48" ABOVE FINISH FLOOR.



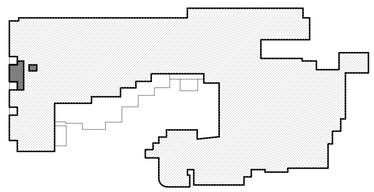
2 ENLARGED RCP - LEVEL 1 - CEILINGS IMPACTED BY CONDUIT RUNS
1/4" = 1'-0"



1 LEVEL 2 - NEW ENLARGED FLOOR PLAN
1/4" = 1'-0"

KEY PLAN - LEVEL 2

AREA OF WORK



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401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS

04/07/2023

REVISIONS

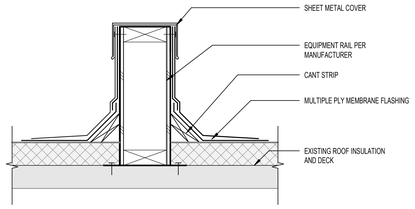
1	ASI 001	02.27.2023
2	ASI 002	04.07.2023
4	ASI 004	08.28.2023
6	ASI 005	03.15.2024

23004

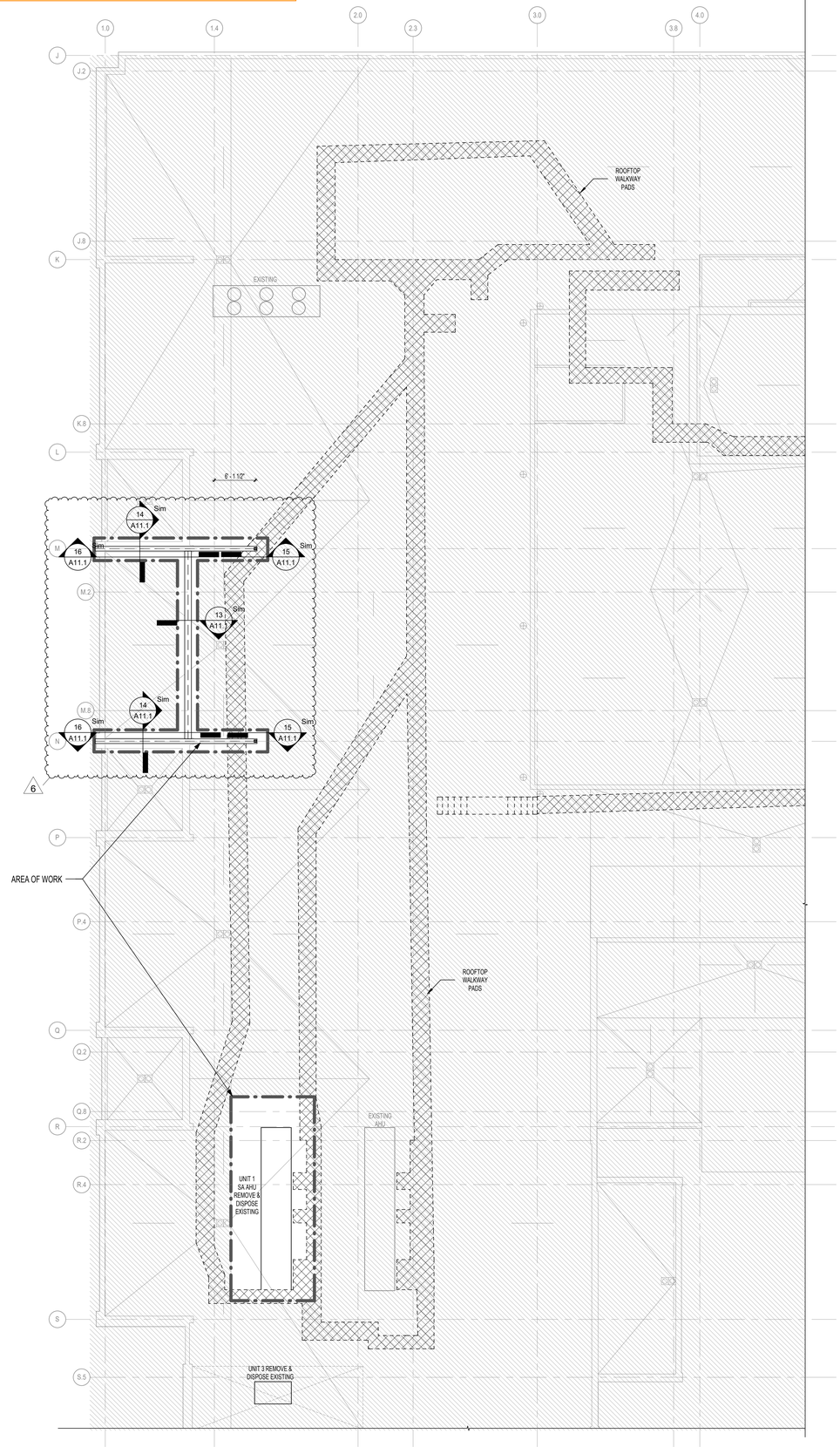
LEVEL 02 - ENLARGED FLOOR PLAN

A1.2A

PRCTI20221788 REVISED SHEET



2 MECHANICAL EQUIPMENT SUPPORT CURB, TYP
1 1/2" = 1'-0"



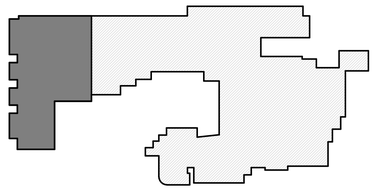
1 ROOF PLAN - FOR REFERENCE ONLY
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

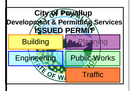
A. ROOF PLAN GENERAL NOTES APPLY TO ALL ROOF PLAN SHEETS.
B. ROOF SLOPES ARE CREATED BY SLOPING THE ROOF STRUCTURE UNLESS NOTED OTHERWISE. SEE STRUCTURAL DRAWINGS FOR ELEVATIONS OF THE HIGH AND LOW POINTS TO DETERMINE PROPER TAPER IN INSULATION.
C. TAPERED INSULATION SHALL PROVIDE A MINIMUM OF 1/4 INCH PER FOOT OF SLOPE TO ROOF DRAINS, UNLESS NOTED OTHERWISE.
D. AREAS MARKED WITH A HATCHED PATTERN INDICATE TAPERED INSULATION.
E. ALL ROOF CURBS TO BE A MINIMUM OF 8 INCHES ABOVE ROOFING LEVELS. PROVIDE TAPERED INSULATION ROOF SADDLES AT ROOF CURBS TO PROVIDE DRAINAGE AROUND CURB.
F. SEE STRUCTURAL DRAWINGS FOR FRAMING AROUND ROOF PENETRATIONS.
G. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
H. FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURERS RECOMMENDATIONS IF DETAIL NOT SHOWN ON DRAWINGS.
I. NO ROOF PENETRATIONS ALLOWED WITHIN 4'-0" EACH SIDE OF FIREWALL. SEE CODE PLAN FOR FIRE WALL LOCATIONS.

KEY PLAN - LEVEL 2

AREA OF WORK



CLARK KJOS ARCHITECTS, LLC



Good Samaritan
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HYBRID OR #1

MULTICARE GOOD SAMARITAN HOSPITAL

401 15TH AVE SE, PUYALLUP, WA 98372

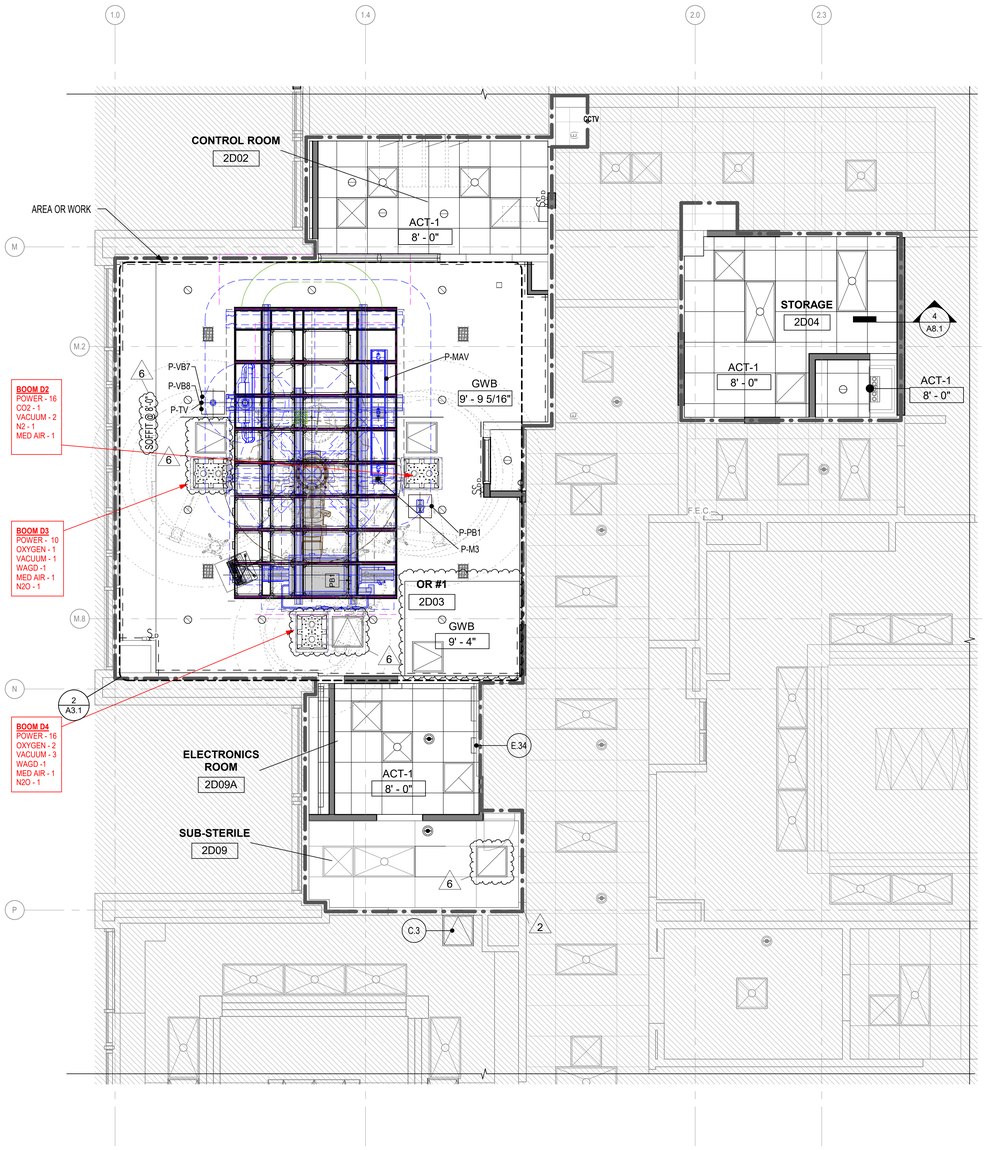
100% CONSTRUCTION DOCUMENTS
04/07/2023
REVISIONS
6 ASI 005 03.15.2024

23004

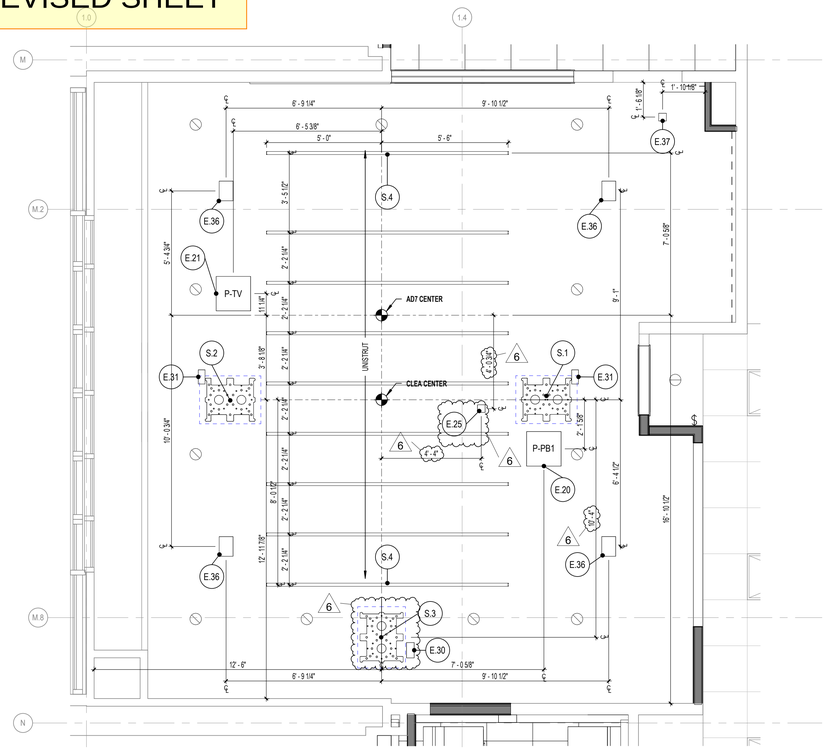
ROOF PLAN

A1.3

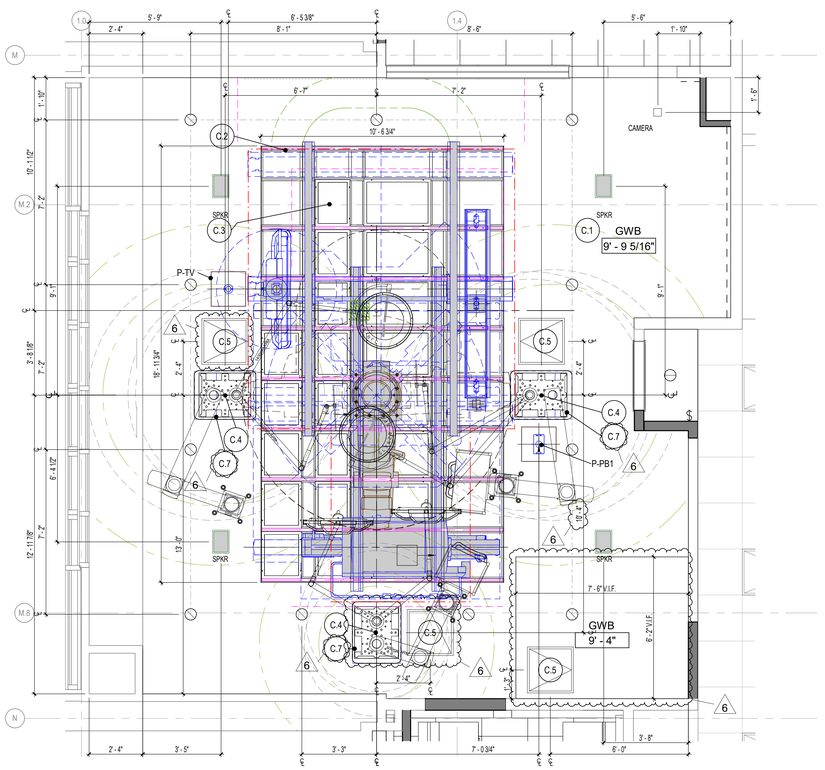
PRCTI20221788 REVISED SHEET



1 ENLARGED REFLECTED CEILING PLAN - LEVEL 2
1/4" = 1'-0"



2 ENLARGED RCP - OR #1 - ITEMS ABOVE CEILING
3/8" = 1'-0"



3 ENLARGED RCP - OR #1 - ITEMS IN OR BELOW CEILING
3/8" = 1'-0"

REFERENCE PHILIPS & ULTRASUITE ORIGINAL EQUIPMENT DRAWING INFORMATION AND DETAILS

REFLECTED CEILING PLAN GENERAL NOTES

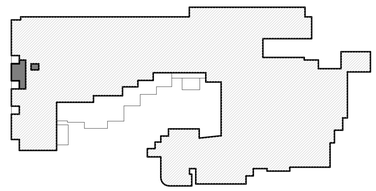
1. ALL CEILING HEIGHTS ARE RELATIVE TO TOP OF SLAB OR SUBFLOOR, UNO
2. SEE ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF FIXTURES AND EQUIPMENT.
3. FIELD VERIFY EXISTING CEILING LAYOUTS PRIOR TO ANY WORK.
4. SUSPENSION SYSTEMS FOR NEW AND EXISTING SUSPENDED GYPSUM BOARD CEILINGS SHALL BE MODIFIED TO FRAME AROUND CEILING INSTALLED ITEMS. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
5. INSTALL BLOCKING AND BACKING FOR WINDOW COVERING TRACKS.
6. REMOVE EXISTING CEILINGS WHERE NEW CEILINGS ARE SHOWN TO BE INSTALLED.
7. FOR TOP OF WALL DETAILS AND HEIGHT OF GYP BOARD ON WALLS, SEE PLANS, PARTITION TYPES, AND DETAILS.
8. RECESSED FIXTURES ARE TO MAINTAIN RATINGS WHERE LOCATED IN RATED CEILING ASSEMBLIES.
9. REFERENCE VENDOR DRAWINGS FROM PHILIPS, PRICE AND STRYKER.

KEYNOTES

C.1	INSTALL NEW HARD LID CEILING (CFCI) USING SUSPENDED DRYWALL GRID SYSTEM. SEE SPECIFICATIONS.
C.2	INSTALL NEW UNISTRUT RAIL SYSTEM (CFCI). SEE STRUCTURAL DRAWINGS AND PRICE DRAWINGS.
C.3	NEW PRICE ULTRASUITE OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING (VFCI). REFER TO PRICE ULTRASUITE DRAWINGS, STRUCTURAL DRAWINGS FOR SUPPORT, MECHANICAL DRAWING FOR HVAC CONNECTIONS, AND ELECTRICAL DRAWINGS FOR POWER.
C.4	NEW BOOM ASSEMBLY (VFVI). REFER TO STRYKER DRAWINGS FOR DETAILS, STRUCTURAL DRAWINGS FOR SUPPORT, MECHANICAL DRAWINGS FOR MEDICAL GAS CONNECTIONS, AND ELECTRICAL DRAWINGS FOR POWER AND LOW VOLTAGE CONNECTIONS.
C.5	INSTALL NEW ACCESS PANEL (CFCI). SEE SPECIFICATIONS.
C.7	PROVIDE 23-INCH X 27-INCH RECTANGULAR HOLE CENTERED ON THE STRYKER PRE-INSTALL PLATE IN THE FINISHED CEILING.
E.20	18-INCH WIDE X 18-INCH LONG X 6-INCH DEEP CEILING BOX (CFCI). FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. PROVIDE ONE 3" DIA. CUTOUT.
E.21	18-INCH WIDE X 18-INCH LONG X 6-INCH DEEP CEILING BOX (CFCI). FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. PROVIDE ONE 2-1/2" DIA. CUTOUT. VB7 AND VB8 TO BE MOUNTED ON REAR SIDE OF FLEXVISION MONITOR.
E.25	4-INCH WIDE X 4-INCH LONG X 2 1/2-INCH DEEP CEILING BOX (CFCI) FOR PHILIPS ITEM M3. FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. HARDWIRE 120-240 VAC, 50-60 HZ HOSPITAL POWER TO M3.
E.30	INSTALL STRYKER UDM JUNCTION BOX (VFCI). 10-INCH HIGH X 8-INCH WIDE X 4-INCH DEEP. MOUNTED WITHIN 18-INCHES OF BOOM MOUNT AND ACCESSIBLE FROM ACCESS PANEL. CONTRACTOR TO PROVIDE AC CIRCUIT TO THIS LOCATION.
E.31	INSTALL STRYKER S-SERIES JUNCTION BOX (VFCI). 7.4" X 3.5" X 3.74", MOUNT ADJACENT TO THE MEDICAL GAS LINES ABOVE THE CEILING AND ACCESSIBLE FROM ACCESS PANEL.
E.34	INSTALL CHROMOPHARE SK ENCLOSURE (VFCI), BELOW CEILING.
E.36	PROVIDE CUTOUT FOR STRYKER SPEAKER, 7.25" X 10.75" (SEE STRYKER SUPPLIED TEMPLATE).
E.37	PROVIDE JUNCTION BOX (CFCI) FOR STRYKER CAMERA (VFVI). 4X4 JUNCTION BOX WITH SINGLE-GANG MUD RING FLUSH MOUNTED IN CEILING.
S.1	PROVIDE STRUCTURAL SUPPORT FOR AND INSTALL STRYKER BOOM D2 MOUNT PLATE (VFCI). BOOM PLATE TO BE MOUNTED 3-INCHES ±±.25-INCH ABOVE FINISHED CEILING. SEE STRUCTURAL DRAWINGS.
S.2	PROVIDE STRUCTURAL SUPPORT FOR AND INSTALL STRYKER BOOM D3 MOUNT PLATE (VFCI). BOOM PLATE TO BE MOUNTED 3-INCHES ±±.25-INCH ABOVE FINISHED CEILING. SEE STRUCTURAL DRAWINGS.
S.3	PROVIDE STRUCTURAL SUPPORT FOR AND INSTALL STRYKER BOOM D4 MOUNT PLATE (VFCI). BOOM PLATE TO BE MOUNTED 3-INCHES ±±.25-INCH ABOVE FINISHED CEILING. SEE STRUCTURAL DRAWINGS.
S.4	PROVIDE STRUCTURAL SUPPORT FOR AND INSTALL UNISTRUT SYSTEM (CFCI). SEE STRUCTURAL DRAWINGS.

KEY PLAN - LEVEL 2

AREA OF WORK



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City of Puyallup
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401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023

REVISIONS

1	ASI 001	02.27.2023
2	ASI 002	04.07.2023
6	ASI 005	03.15.2024

23004

LEVEL 02 - ENLARGED REFLECTED CEILING PLAN

A3.1

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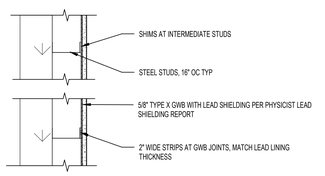
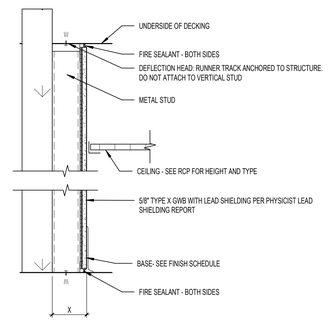


PLAN

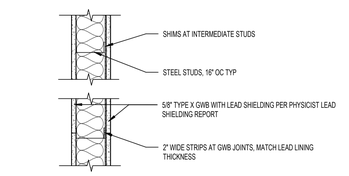


SECTION

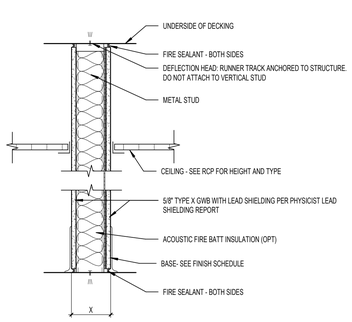
L22 X = 3 1/8"
L24 X = 4 7/8"
L2X X = MATCH EXISTING

UL DES U419
GA FILE NO. WP 1072
STC = 45-49 (W/ INSULATION)

L2 LEAD LINED FURRING
1 1/2" = 1'-0"



PLAN

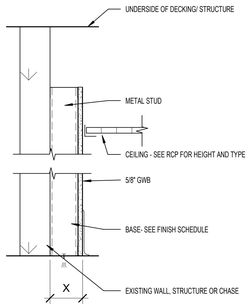


SECTION

L14 X = 4 7/8"
L1X X = MATCH EXISTING

UL DES U419
GA FILE NO. WP 1072
STC = 45-49 (W/ INSULATION)

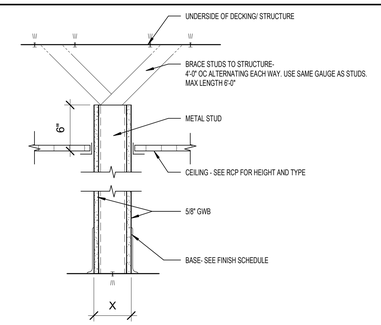
L1 LEAD LINED
1 1/2" = 1'-0"



SECTION

F72 X = 3 1/8"
F74 X = 4 1/4"
F76 X = 6 5/8"

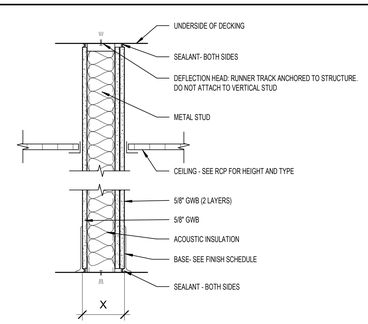
F7 FURRING WALL
1 1/2" = 1'-0"



SECTION

P72 X = 3 3/4"
P74 X = 4 7/8"
P76 X = 7 1/4"

P7 PARTITION WALL
1 1/2" = 1'-0"



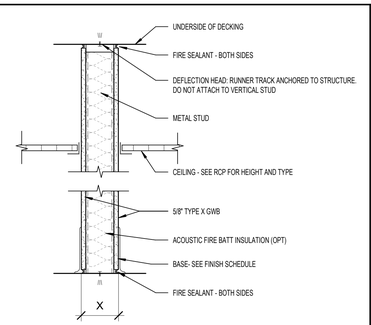
SECTION

METAL STUDS AND RUNNERS ARE NOMINAL 25 GAUGE UNLESS OTHERWISE SPECIFIED

A54 X = 5 1/2"
A56 X = 7 7/8"

STC = 50-53
GA FILE NO. WP 1052

A5 ACOUSTIC WALL
1 1/2" = 1'-0"



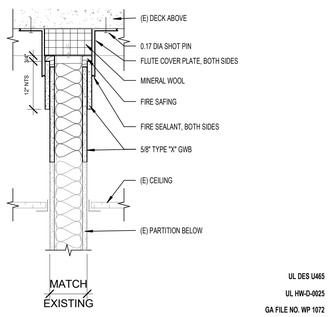
SECTION

R11 X = 3 1/8"
R14 X = 5 1/4"
6
R1X X = MATCH EXISTING

UL DES U419
GA FILE NO. WP 1072
STC = 45-49 (W/ INSULATION)

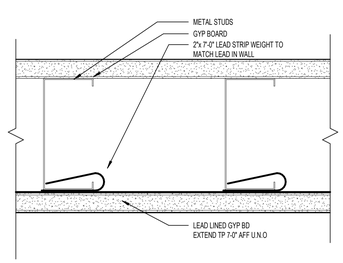
R1 1 HOUR RATED FIRE BARRIER
1 1/2" = 1'-0"

PRCTI20221788 REVISED SHEET

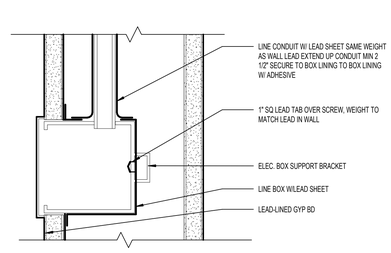


UL DES U465
UL HW-D-0025
GA FILE NO. WP 1072
STC = 45-49 (W/ INSULATION)

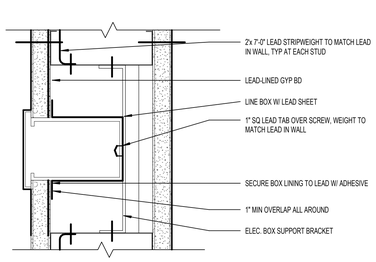
4 ABOVE CEILING 1-HR FIRE BARRIER
1 1/2" = 1'-0"



3 LEAD WALL DETAIL
6" = 1'-0"



2 LEAD WALL DETAIL @ELEC. PANEL OR BOX
6" = 1'-0"



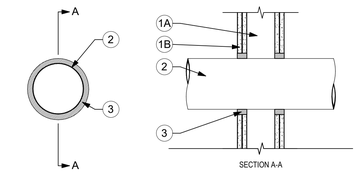
1 LEAD WALL PLAN @ELEC. PANEL OR BOX
6" = 1'-0"

Guide XHEZ
Through-Penetration Firestop Systems

System No. W-L-7045

F-Ratings - 1 and 2 Hr (See Item 1)
T-Rating - 0 Hr

July 26, 2007



1. **Wall Assembly** — The 1 hr or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. **Studs** — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. When diam of opening exceeds width of stud cavity, additional lengths of steel stud installed to frame out opening around steel duct (ftem 3).
   B. **Gypsum Board*** — Min 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 25-1/2 in. (648 mm). **The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Steel Duct** — Max 24 in. (610 mm) diam No. 24 gauge (or heavier) spiral wound steel duct to be installed concentrically with a 3/4 in. (19 mm) annular space. Duct to be rigidly supported on both sides of wall assembly.
3. **Fill, Void or Cavity Material* - Caulk or Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. 3M COMPANY — CP 25WB+ or FB-3000 WT

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively**

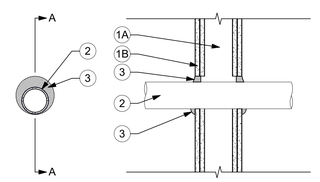
6 DUCTWORK - GYP. BD. WALL - 1 AND 2 HR
1 1/2" = 1'-0"

Guide XHEZ
Through-Penetration Firestop Systems

System No. W-L-1146

F-Ratings - 1 and 2 Hr (See Item 1)
T-Rating - 0 Hr

September 03, 2004

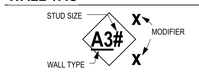


1. **Wall Assembly** — The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is centered in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing in all four sides.
   B. **Gypsum Board*** — The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 36 in. in. for steel stud walls. Max diam of opening is 54-1/2 for wood stud walls. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through-Penetrant** — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** — Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** — Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** — Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing
   D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
   E. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Materials* — Caulk or Sealant** — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall. 3M COMPANY — CP25WB+ or FB-3000 WT

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively**

5 METAL PIPE - GYP. BD. WALL - 1 AND 2 HR
1 1/2" = 1'-0"

WALL TAG



MODIFIERS

A = PROVIDE CONTINUOUS ACOUSTIC BATTS
B = PROVIDE ABUSE RESISTANT GWB
C = PROVIDE 5/8" RESILIENT FURRING CHANNELS OVER FRAMING ON ONE SIDE
L = PROVIDE LEAD LINED GYPSUM BOARD- EXTEND 7'-0" AFF MIN. SEE PHYSICIST REPORT
T = PROVIDE CEMENTITIOUS BACKER BOARD AT TILE FINISHES
S= SHEAR WALL FRAME PER STRUCTURAL

ASSEMBLIES

GA WP 1072 (Generic)
One layer 5/8" type X gypsum wallboard or gypsum veneer applied parallel or at right angles to each side of 3-5/8" steel studs 24" O.C., with 1" type S drywall screws 8" O.C.. at vertical joints and 12" O.C.. at floor and ceiling runners and intermediate studs.
Joints staggered 24" on each side and on opposite sides. Sound tested with 3 1/2" glass fiber friction fit in stud space.

GA WP 1052 (Generic)
One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8" steel studs 24" O.C., with 1" type S drywall screws 8" O.C.. at vertical joints and 12" O.C.. at wall perimeter and intermediate studs. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to ONE SIDE with 1 5/8" Type S drywall screws at 12" O.C..
Joints staggered 24" each layer and side. Sound tested with 3 1/2" glass fiber friction fit in stud space.

GA WP 1522 (Generic)
Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8" steel studs 24" O.C.. with 1" type S drywall screws. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side with 1 5/8" Type S drywall screws at 12" O.C.

Joints staggered 24" each layer and side. Sound tested with 3 1/2" glass fiber friction fit in stud space.

GA WP 7051 / UL DESIGN U428 (Proprietary)
One layer 1" x 24" proprietary type X gypsum panels inserted between 2 1/2" floor and ceiling J runners with T section of 2 1/2" steel or C-H or C-T studs between panels.
OPPOSITE SIDE: Base layer 1/2" proprietary type X gypsum wallboard applied at right angles to studs with 1" type S drywall screws 24" O.C.. Face layer 1/2" type proprietary type X gypsum wallboard applied parallel to studs with 1 5/8" Type S drywall screws at 12" O.C..
Sound tested with 1 7/8" glass fiber friction fit in stud space.

CLARK KJOS ARCHITECTS, LLC

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

	Planning
Engineering	Public Works
Fire	Traffic

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MULTICARE GOOD SAMARITAN HOSPITAL
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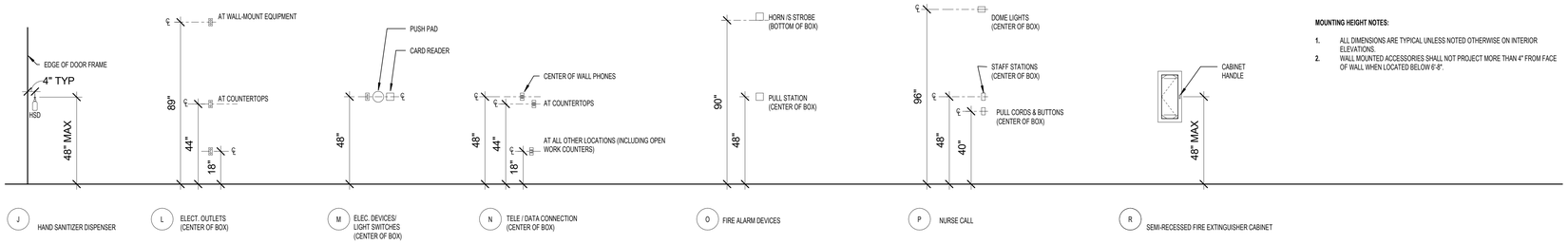
100% CONSTRUCTION DOCUMENTS
04/07/2023

REVISIONS
2 ASI 002 04.07.2023
6 ASI 005 03.15.2024

23004

PARTITION TYPES AND WALL DETAILS

A8.1



MOUNTING HEIGHT NOTES:

1. ALL DIMENSIONS ARE TYPICAL UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.
2. WALL MOUNTED ACCESSORIES SHALL NOT PROJECT MORE THAN 4" FROM FACE OF WALL WHEN LOCATED BELOW 6'-8".

TYPICAL MOUNTING HEIGHTS

EQUIPMENT LEGEND

CC1	CART, INNERSPACE ROAM 2, CATH1 (OFOI)
CC2	CART, INNERSPACE ROAM 2, CATH2 (OFOI)
CC3	CART, INNERSPACE ROAM 2, CATH3 (OFOI)
MED	DISPENSER, MEDICATION (VFOI)
MRG	MERGE CABINET (OFCI).
NCCB	NURSE CALL W/ STAFF ASSIST AND CODE BLUE (CFCI)
OR1	CART, INNERSPACE ROAM 2, 0R1 (OFOI)
P-2ME	PHILIPS CERTERAY iX GENERATOR CABINET (VFVI).
P-ATY	PHILIPS ATY BOX (VFCI). AUXILIARY BOX - 6"W x 6"H x 4"D WALL BOX, FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. VERIFY HEIGHT AND LOCATION WITH LOCAL PHILIPS SERVICE.
P-CY	PHILIPS CONTROL ROOM CONNECTION BOX (VFCI).
P-ERB	EQUI-POTENTIAL REFERENCE BAR (CFCI) MOUNTED IN A 12"W x 12"H x 4"D PULL BOX WITH HINGED COVER, SURFACE MOUNTED TO WR2.
P-MA	PHILIPS MAINS 40E CABINET (VFVI).
P-MB	PHILIPS IMAGE 40E CABINET (VFVI).
P-ME	PHILIPS CERTERAY iX GENERATOR CABINET (VFVI).
P-MR	PHILIPS PERIPHERAL 40E CABINET WITH CRC + EXTENSIONS (VFVI).
P-RAP	PHILIPS REMOTE ACCESS PANEL FOR UPS. VERIFY HEIGHT AND LOCATION WITH OWNER AND PHILIPS SERVICE.
P-UPS	PHILIPS UPS CABINET (VFCI).
P-VB2	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB3	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB4	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB5	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB6	PHILIPS VIDEO CONNECTION BOX (VFVI).
RCK	RACK, APRON, MOBILE (OFOI)
S-SK	STRYKER SK ENCLOSURE (VFCI).
S-SPI3	STRYKER SWITCHPOINT INFINITY 3 (VFVI).
WAV	TOUCHLESS WAVE SENSOR FOR AUTOMATIC DOOR (CFCI)
WBRD	WHITE BOARD (OFCI)

GENERAL NOTES

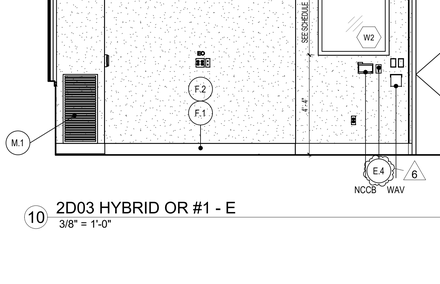
1. CABINETMAKER SHALL COORDINATE WITH OTHER TRADES, VENDORS AND OWNER FOR ITEMS INSTALLED IN AND AROUND CABINETRY.
2. GROMMETS AND ELECTRICAL OUTLETS: INSTALL GROMMETS IN COUNTERTOPS FOR ALL UNDER-COUNTER OUTLETS AS FOLLOWS:
   1 1/2" DIA. GROMMET FOR UP TO 2 OUTLETS
   2 1/2" DIA. GROMMET FOR UP TO 4 OUTLETS

   SEE DETAIL SHEETS FOR TYPICAL CABINETRY CONSTRUCTION DETAILS.
3. COORDINATE MOUNTING HEIGHTS FOR ALL SIGNAGE, EQUIPMENT AND FIXTURES WITH STANDARD MOUNTING HEIGHT DRAWING.
4. PRIOR TO COVERING WALL, BACKING SHALL BE PROVIDED TO ACCOMMODATE ALL HUNG ITEMS AND ACCESSORIES CALLED FOR ON THE CONSTRUCTION DOCUMENTS. SUCH ITEMS
5. CONSIST OF, BUT ARE NOT LIMITED TO: UPPERCASE CABINETS, STORAGE SHELVING, TELEVISIONS, COMPUTER MONITORS, LAVATORY ACCESSORIES, AND FUTURE INSTALLATION OF GRAB BARS AT THE SIDES OF WATER CLOSETS.

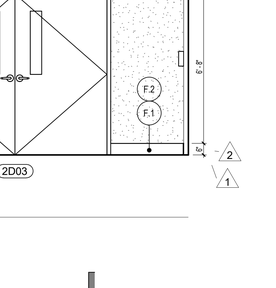
KEYNOTES

A.14	PROVIDE WALL BACKING FOR MONITOR SUPPORTS.
E.3	OUTLET AND BACK BOX FOR DIGITAL CLOCK
E.4	J-BOX FOR CLOCK TIMER
E.15	WALL RACEWAY (WR1), 10"W x 4"D, SURFACE MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. BOTTOM OF RACEWAY AT 5" AFF. PROVIDE GROMMET OPENINGS PER PHILIPS DRAWINGS.
E.16	WALL RACEWAY (WR2), 10"W x 4"D, SURFACE MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. BOTTOM OF RACEWAY AT 82" AFF.
E.17	WALL RACEWAY (WR3), 10"W x 4"D, SURFACE MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. BOTTOM OF RACEWAY AT FINISHED FLOOR.
E.32	PROVIDE JUNCTION BOX FOR SWITCHPOINT INFINITY 3 (CFCI). 18"W X 18"H X 4"D, FLUSH MOUNT, SET BOTTOM OF BOX 5" ABOVE FINISH FLOOR.
E.33	PROVIDE JUNCTION BOX FOR SPI3 TOUCH PANEL (CFCI). 4"W X 4"H, SINGLE-GANG MUD RING. MOUNT BOX WITHIN 18" OF THIS LOCATION.
E.34	INSTALL CHROMOPHARE SK ENCLOSURE (VFCI), BELOW CEILING.
E.35	PROVIDE JUNCTION BOX (CFCI) FOR STRYKER CHROMOPHARE WALL CONTROL PANEL (VFVI). STANDARD 4X4 JUNCTION BOX AT 48" ABOVE FINISH FLOOR.
F.1	NEW INTEGRAL COVE AT AREAS OF WORK; MATCH EXISTING FINISH
F.2	WALL PROTECTION
M.1	LOW AIR RETURN

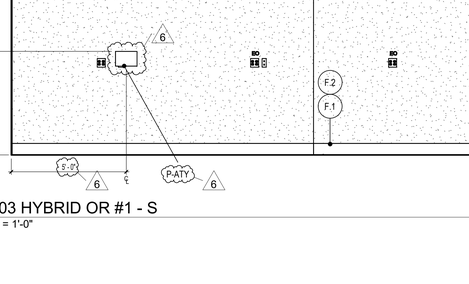
PRCTI20221788 REVISED SHEET



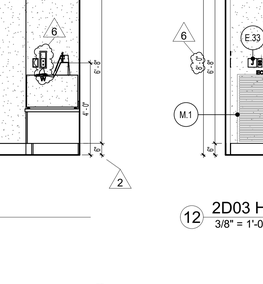
1 2D02 CONTROL ROOM - N
3/8" = 1'-0"



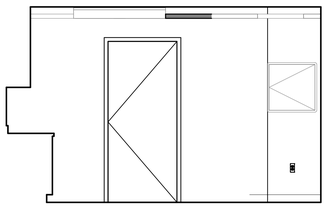
2 2D02 CONTROL ROOM - E
3/8" = 1'-0"



3 2D02 CONTROL ROOM - S
3/8" = 1'-0"

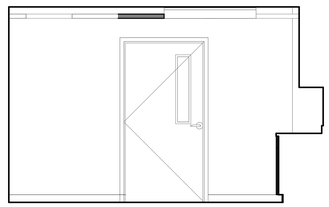


4 2D02 CONTROL ROOM - W
3/8" = 1'-0"

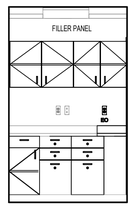


5 2D09 SUB-STERILE - N
3/8" = 1'-0"

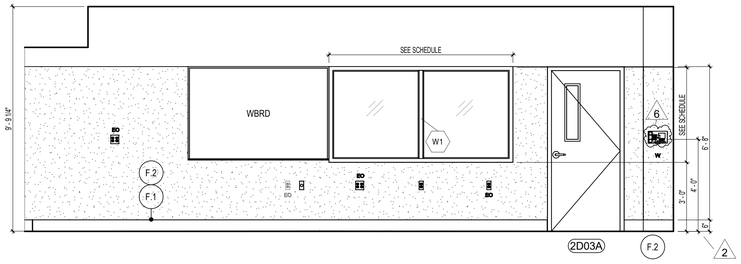
6 2D09 SUB-STERILE - E
3/8" = 1'-0"



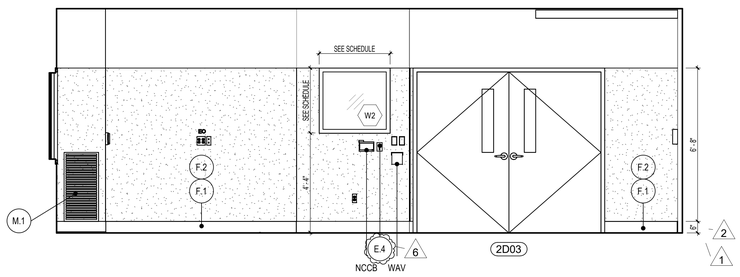
7 2D09 SUB-STERILE - S
3/8" = 1'-0"



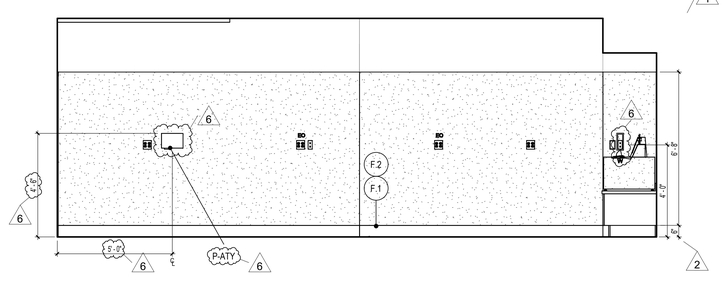
8 2D09 SUB-STERILE - W
3/8" = 1'-0"



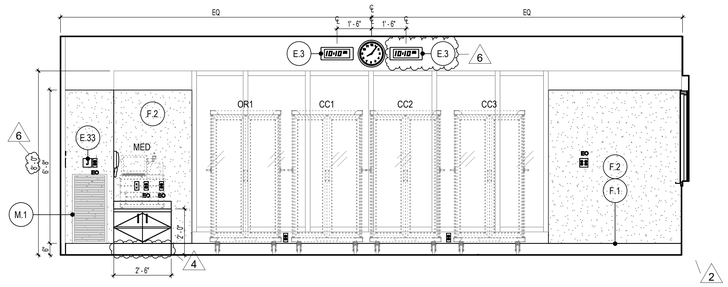
9 2D03 HYBRID OR #1 - N
3/8" = 1'-0"



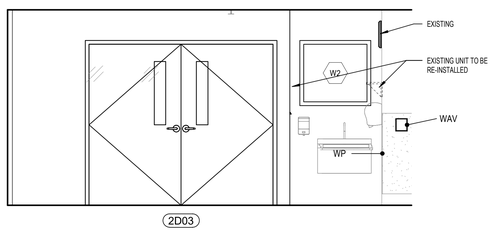
10 2D03 HYBRID OR #1 - E
3/8" = 1'-0"



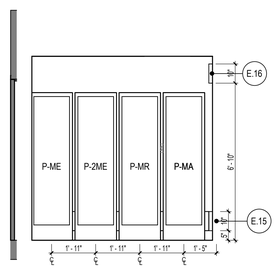
11 2D03 HYBRID OR #1 - S
3/8" = 1'-0"



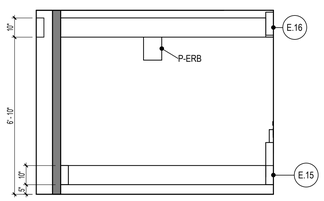
12 2D03 HYBRID OR #1 - W
3/8" = 1'-0"



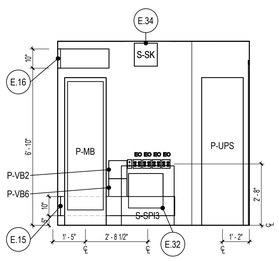
13 2D03A SCRUB AREA - W
3/8" = 1'-0"



14 2D09A ELECTRONICS - W
3/8" = 1'-0"



15 2D09A ELECTRONICS - N
3/8" = 1'-0"



16 2D09A ELECTRONICS - E
3/8" = 1'-0"

CLARK KJOS ARCHITECTS, LLC

City of Puyallup
Development & Permitting Services
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A part of MultiCare Health System

HYBRID OR #1

MULTICARE GOOD SAMARITAN HOSPITAL

401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023

REVISIONS

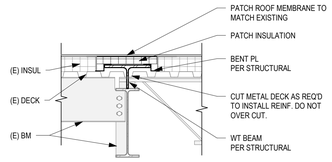
1	ASI 001	02.27.2023
2	ASI 002	04.07.2023
4	ASI 004	08.28.2023
6	ASI 005	03.15.2024

23004

INTERIOR ELEVATIONS

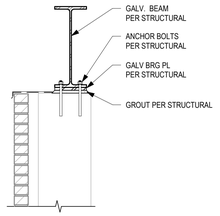
A10.1

PRCTI20221788 REVISED SHEET



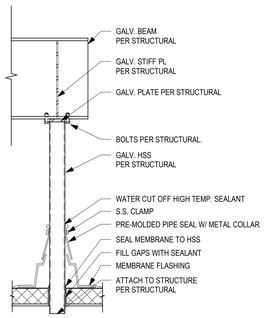
13 ROOFTOP BEAM - STRENGTHEN
3/4" = 1'-0"

ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED



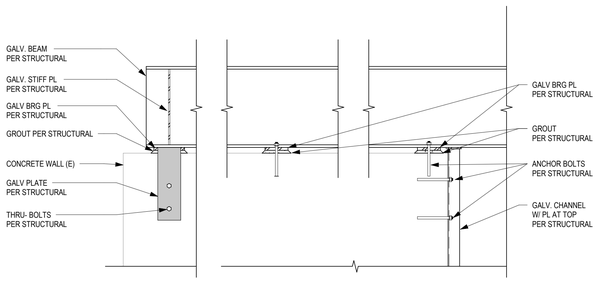
14 ROOFTOP BEAM - SECTION
3/4" = 1'-0"

ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED



15 ROOFTOP BEAM - EAST
3/4" = 1'-0"

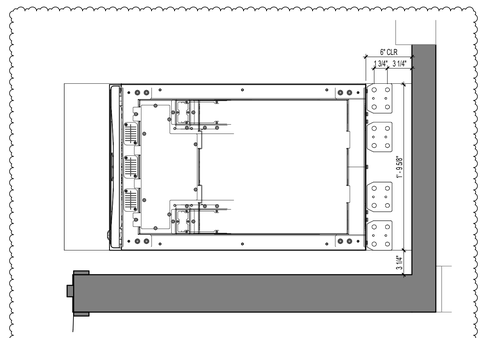
ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED



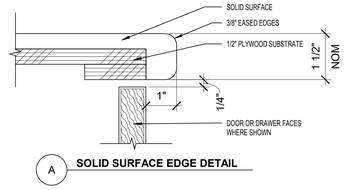
16 ROOFTOP BEAM - WEST
3/4" = 1'-0"

ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED

SEE STRUCTURAL REVISED SHEET FOR BEAM

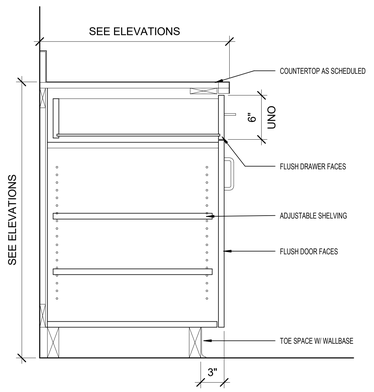


12 UPS SEISMIC BASE
1 1/2" = 1'-0"

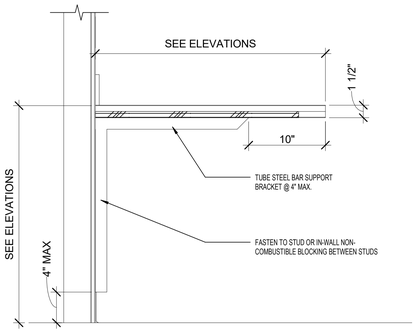


A SOLID SURFACE EDGE DETAIL

6 TYPICAL COUNTER EDGES
6" = 1'-0"



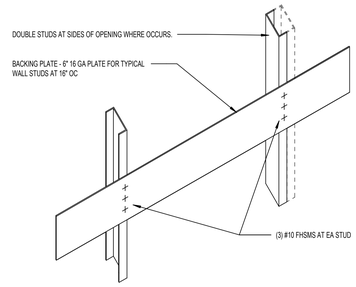
7 TYPICAL BASE CAB - SINGLE DRAWER
1 1/2" = 1'-0"



8 MOUNTING BRACKET
1 1/2" = 1'-0"

NOTES:

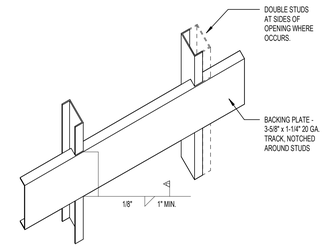
1. TYPE 'A' BACKING PLATE FOR MISC. ITEMS, I.E., SURFACE MOUNTED MIRRORS, WASTE RECEPTACLES, TOWEL DISPENSERS, EQUIPMENT, ETC. MAX. WEIGHT - 50 POUNDS
2. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS.
3. USE #12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE.
4. WALL STUD FLANGES ARE CONTINUOUS.



1 BACKING PLATE - TYPE 'A'
3" = 1'-0"

NOTES:

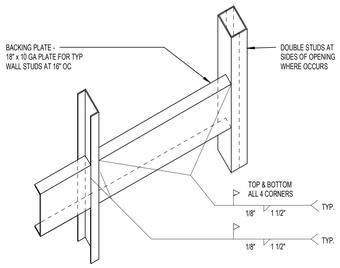
1. TYPE 'B' BACKING PLATE FOR UPPER WALL HUNG CABINETS (UP TO 2 SHELVES), BASE CABINETS, SHELVING TO 7'-0", WALL HUNG BENCHES, HANDRAILS, ETC. MAX. WEIGHT - 100 LBS/FT
2. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS.
3. USE #12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE.
4. WALL STUD FLANGES ARE CONTINUOUS.



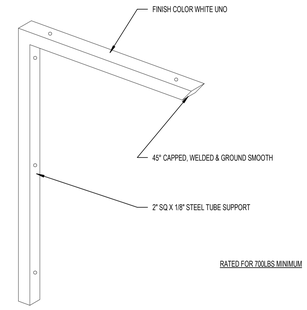
2 BACKING PLATE - TYPE 'B'
3" = 1'-0"

NOTES:

1. TYPE 'C' BACKING PLATE FOR SCRUB SINKS AND WALL HUNG LAVS MAXIMUM WEIGHT - 200 POUNDS/FOOT
2. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS.
3. USE 1/4" SELF TAPPING (TEKS) SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE.
4. 2'-0" BACKING PLATE AT SCRUB SINK.
5. WALL STUD FLANGES ARE CONTINUOUS.



3 BACKING PLATE - TYPE 'C'
3" = 1'-0"



CLARK KJOS ARCHITECTS, LLC

11095 REGISTERED ARCHITECT
SCOTT D. COMBS
STATE OF WASHINGTON

City of Puyallup
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Building	Planning
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Fire	Traffic

Good Samaritan
A part of MultiCare Health System

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MULTICARE GOOD SAMARITAN HOSPITAL
401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023
REVISIONS
6 ASI 005 03.15.2024

23004

INTERIOR DETAILS

A11.1

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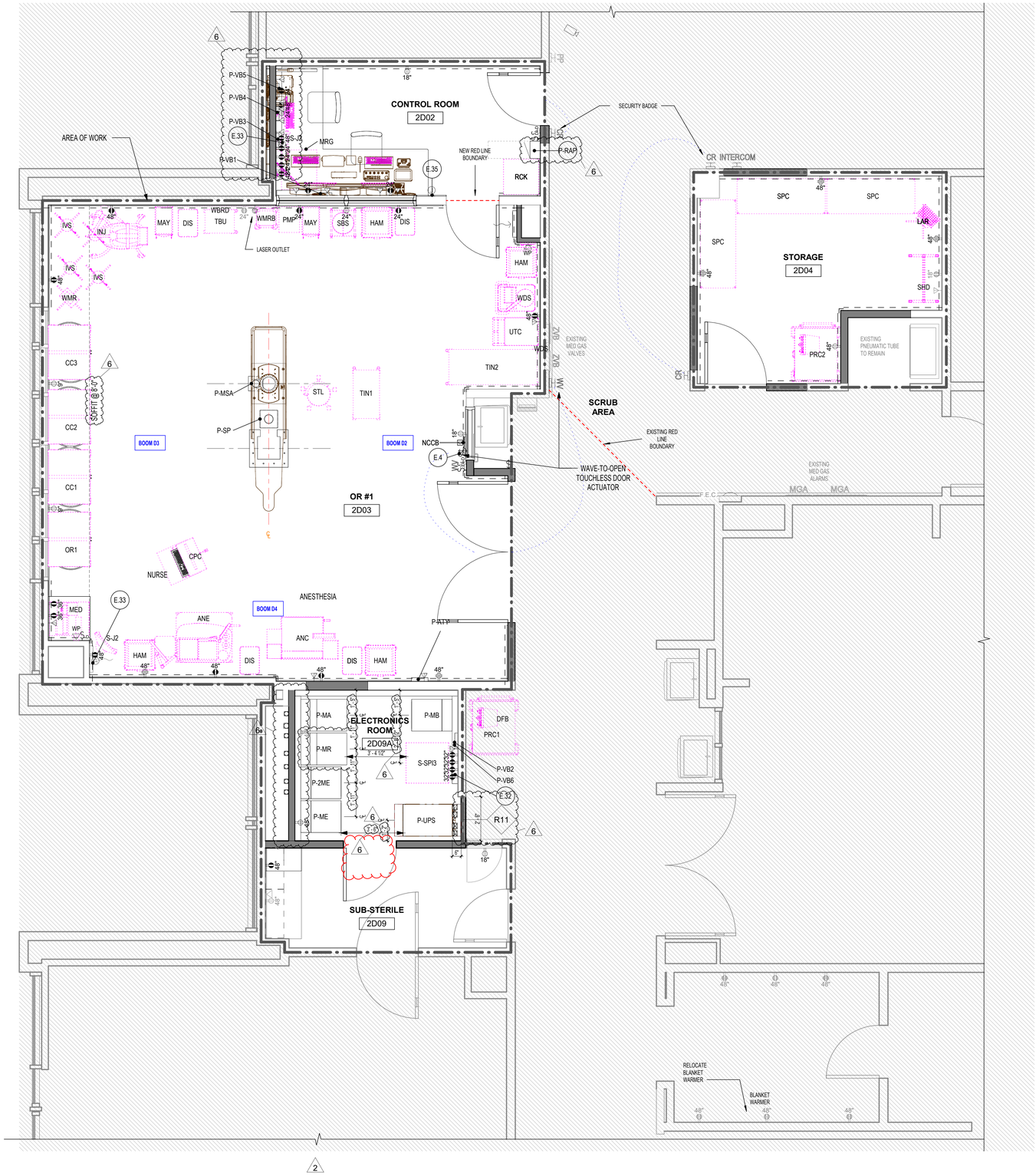
3/19/2024 2:42:25 PM

PRCTI20221788 REVISED SHEET



1 EQUIPMENT PLAN - LEVEL 2
3/8" = 1'-0"

REFERENCE PHILIPS ORIGINAL EQUIPMENT DRAWING INFORMATION AND DETAILS

KEYNOTES

E.4	J-BOX FOR CLOCK TIMER
E.32	PROVIDE JUNCTION BOX FOR SWITCHPOINT INFINITY 3 (CFCI). 18"W X 18"H X 4"D, FLUSH MOUNT, SET BOTTOM OF BOX 9" ABOVE FINISH FLOOR.
E.33	PROVIDE JUNCTION BOX FOR SPI3 TOUCH PANEL (CFCI). 4"W X 4"H, SINGLE-GANG MUD RING. MOUNT BOX WITHIN 18" OF THIS LOCATION.
E.35	PROVIDE JUNCTION BOX (CFCI) FOR STRYKER CHROMOPHARE WALL CONTROL PANEL (VFVI). STANDARD 4X4 JUNCTION BOX AT 48" ABOVE FINISH FLOOR.

EQUIPMENT LEGEND

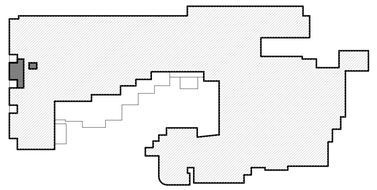
ANC	CART, ANESTHESIA (OFOI)
ANE	ANESTHESIA MACHINE (VFOI)
CC1	CART, INNERSPACE ROAM 2, CATH1 (OFOI)
CC2	CART, INNERSPACE ROAM 2, CATH2 (OFOI)
CC3	CART, INNERSPACE ROAM 2, CATH3 (OFOI)
CPC	CART, COMPUTER (OFOI)
DFB	DEFIBRILLATOR (OFOI)
DIS	DISPOSAL, SHARPS (OFOI)
HAM	HAMPER, LINEN (OFOI)
INJ	INJECTOR, MOBILE (OFOI)
IVS	STAND, IV (OFOI)
LAR	LARYNGOSCOPE SET (OFOI)
MAY	STAND, MAYO (OFOI)
MED	DISPENSER, MEDICATION (VFOI)
MRG	MERGE CABINET (OFCI).
NCCB	NURSE CALL W/ STAFF ASSIST AND CODE BLUE (CFCI)
OR1	CART, INNERSPACE ROAM 2, 0R1 (OFOI)
P-2ME	PHILIPS CERTERAY iX GENERATOR CABINET (VFVI).
P-ATY	PHILIPS ATY BOX (VFCI). AUXILIARY BOX - 6"W x 6"H x 4"D WALL BOX, FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE. VERIFY HEIGHT AND LOCATION WITH LOCAL PHILIPS SERVICE.
P-MA	PHILIPS MAINS 40E CABINET (VFVI).
P-MB	PHILIPS IMAGE 40E CABINET (VFVI).
P-ME	PHILIPS CERTERAY iX GENERATOR CABINET (VFVI).
P-MR	PHILIPS PERIPHERAL 40E CABINET WITH CRC + EXTENSIONS (VFVI).
P-MSA	PHILIPS ANGIO DIAGNOST 7 W/ SWIVEL, TILE & CRADLE (VFVI).
P-RAP	PHILIPS REMOTE ACCESS PANEL FOR UPS. VERIFY HEIGHT AND LOCATION WITH OWNER AND PHILIPS SERVICE.
P-SP	PHILIPS FLOOR CLEA (VFVI).
P-UPS	PHILIPS UPS CABINET (VFCI).
P-VB1	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB2	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB3	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB4	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB5	PHILIPS VIDEO CONNECTION BOX (VFVI).
P-VB6	PHILIPS VIDEO CONNECTION BOX (VFVI).
PMP	PUMP, AIR MATRESS (OFOI)
PRC1	CART, PROCEDURE (OFOI)
PRC2	CART, PROCEDURE (OFOI)
RCK	RACK, APRON, MOBILE (OFOI)
S-J2	STRYKER SPI3 TOUCH PANEL (VFVI).
S-SPI3	STRYKER SWITCHPOINT INFINITY 3 (VFVI).
SBS	STAND, BASIN (OFOI)
SHD	SHEILD, LEAD, MOBILE (OFOI)
SPC	CART, SUPPLY, 60IN (OFOI)
STL	STOOL (OFOI)
TBU	TABLE, UTILITY (OFOI)
TIN1	TABLE, INSTRUMENT 33IN (OFOI)
TIN2	TABLE, INSTRUMENT 60IN (OFOI)
UTC	CART, UTILITY (OFOI)
WBRD	WHITE BOARD (OFCI)
WDS	WASTE DISPOSAL, NEPTUNE (OFOI)
WMR	WARMER, FLUID (OFOI)
WMRB	WARMER, BAIR HUGGER (OFOI)

ELECTRICAL LEGEND

- POWER OUTLET, DUPLEX (CRITICAL AND NORMAL)
- POWER OUTLET, QUAD (CRITICAL AND NORMAL)
- POWER OUTLET, SPECIAL (220V)
- DATA OUTLET
- PHONE OUTLET
- DOOR ACTUATOR, CARD READER
- DOOR ACTUATOR, PUSH PLATE
- DOOR ACTUATOR, TOUCHLESS (HAND WAVE)

KEY PLAN - LEVEL 2

AREA OF WORK



CLARK KJOS ARCHITECTS, LLC

SCOTT D. COMBS, STATE OF WASHINGTON, 11095, REGISTERED ARCHITECT

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

Good Samaritan
A part of MultiCare Health System

HYBRID OR #1

MULTICARE GOOD SAMARITAN HOSPITAL

401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023

REVISIONS
2 ASI 002 04.07.2023
6 ASI 005 03.15.2024

23004

LEVEL 02 - EQUIPMENT FLOOR PLAN

A13.1

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GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (1)	PARTITION LOAD	CONCENTRATED LOADS
OPERATING ROOM		60 PSF	+EQUIPMENT	1,000#
CORRIDORS ABOVE FIRST FLOOR		80 PSF		1,000#
ROOF	15 PSF	25 PSF		300#

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.11.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

Pg = 18 PSF = GROUND SNOW LOAD
Pf = 0.7CeCtIsPg = FLAT ROOF SNOW LOAD
Ps = CsPf = SLOPED ROOF SNOW LOAD
Is = 1.2 Ce = 1.0, Ct = 1.0, Cs = VARIES

LATERAL FORCES

BRACING AND ANCHORAGE OF EQUIPMENT DESIGNED PER ASCE 7-16 CHAPTER 13

SEISMIC:

$$F_p = \frac{0.4\, a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)} \left(1+2\frac{z}{h}\right)$$

WHERE a_p = VARIES BY COMPONENT z = VARIES BY COMPONENT

R_p = VARIES BY COMPONENT h = 73'

I_p = 1.5

SPECTRAL RESPONSE ACCELERATIONS S_s = 1.267 S_1 = 0.436
SITE CLASS = D-DEFAULT
DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 1.013 & S_{D1} = N/A

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

COMPOSITE STRENGTHENING SYSTEM: SHALL BE "TYFO" COMPOSITE STRENGTHENING SYSTEM BY FYFE CO., OR PRE-APPROVED EQUAL. SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3039, ASTM D2563, AND ASTM E1142, AND SHALL HAVE A CURRENT ICC-ES EVALUATION REPORT. SYSTEM SHALL BE DESIGNED TO CARRY THE LOADS INDICATED ON THE DRAWINGS. SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP OF A STRUCTURAL ENGINEER LICENSED AS SUCH IN THE STATE OF WASHINGTON SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER (LICENSED IN THE STATE OF THE PROJECT) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:
- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298) OR SIMPSON SET-3G (ICC-ESR-4057) OR PRE-APPROVED EQUAL.
  - *CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  - *CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  - *HOLE SHALL BY HAMMER-DRILLED ONLY.
  - *DO NOT INSTALL IN WATER-FILLED HOLES.
  - *INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT TZ2 (ICC ESR-4266) BY HILTI, INC., OR PRE-APPROVED EQUAL.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC., OR PRE-APPROVED EQUAL.

STRUCTURAL STEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION. THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

STEEL FABRICATORS

NON-AISC CERTIFIED STEEL FABRICATORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

STEEL ERECTORS

NON-AISC CERTIFIED STEEL ERECTORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500, GRADE C (Fy = 50 KSI) ROUND - ASTM A500, GRADE C (Fy = 46 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

HIGH-STRENGTH BOLTS: A325-ASTM F1852, A490-ASTM F2280

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED, ASTM F1554, GRADE 105 WHERE INDICATED.

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHARPY V-NOTCH RATINGS AS FOLLOWS:

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	-----
PARTIAL PENETRATION	70 KSI	-----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 40 DEG F

WELDED CONNECTIONS INSPECTION:

1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

GENERAL REQUIREMENTS

HIGH-STRENGTH BOLTS: ALL A325 HIGH-STRENGTH BOLTS (HSB) SHALL BE ASTM F3125, GRADE F1852, UNLESS OTHERWISE DESIGNATED AS A490. ALL HSB DESIGNATED AS A490 SHALL BE ASTM F3125, GRADE F2280. ALL HSB SHALL BE BY "LEJEUNE BOLT COMPANY" OR PRE-APPROVED EQUAL AND SHALL BE INSTALLED PER SECTION 8.2 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", AUGUST 2014 BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC SPECIFICATION). ALL BOLT HOLES SHALL BE STANDARD ROUND HOLES UNLESS NOTED OTHERWISE. THE FAYING SURFACES OF ALL PLIES WITHIN THE GRIP OF SLIP-CRITICAL BOLTS (A325SC OR A490SC) SHALL MEET THE REQUIREMENTS FOR A CLASS A SURFACE PER SECTION 3.2 OF THE RCSC SPECIFICATION.

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RCSC SPECIFICATION.

ADHESIVE ANCHOR RODS: FULLY THREADED ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

		STRUCTURAL ENGR.	BLDG. DEPT.
1.	STRUCTURAL STEEL	X	X
2.	MISCELLANEOUS STEEL	X	X
3.	CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

DEFERRED SUBMITTALS
THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BE STAMPED BY A ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED.

		ENGINEER STAMP REQUIRED
1.	FIBER REINFORCING POLYMERS	SE

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

PRCTI20221788 REVISED SHEET

STRUCTURAL DRAWING INDEX

SHEET NUMBER	SHEET DESCRIPTION
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S1.0	FRAMING PLANS
S2.0	DETAILS
S2.1	DETAILS
S2.2	DETAILS
Grand total: 6	

CLARK KJOS ARCHITECTS, LLC

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23004

GENERAL NOTES

S0.1

PROVIDE ALL SPECIAL INSPECTION REPORTS TO THE BUILDING INSPECTOR.

PRCTI20221788 REVISED SHEET

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X		AISC 360 CHAPTER N5
	HIGH-STRENGTH BOLTING A. SNUG-TIGHT JOINTS		X		AISC 360 CHAPTER N5
	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > 5/16" D. FIELD-INSTALLED WELDED STUDS	X (A) X (B) X (C)	X (D)	SPECIAL INSPECTIONS IN THIS SECTION MAY BE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 AND WITH APPROVAL OF THE BUILDING OFFICIAL.	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	INSPECTION OF LATERAL FORCE-RESISTING SYSTEM CONNECTIONS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X		
CONCRETE	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
FIRE-RESISTANT MATERIALS	SPRAYED FIRE-RESISTANT MATERIALS		X		IBC 1705.14
	MASTIC AND INTUMESCENT COATINGS		X		IBC 1705.15
SUSPENDED CEILINGS	ANCHORAGE AND SEISMIC BRACING		X		
CLADDING, AND NON-BEARING WALLS	ERECTION AND FASTENING		X	NOT REQUIRED FOR STRUCTURES ≤ 30 FT OR CLADDING OR VENEER ≤ 5 PSF OR INTERIOR NON-BEARING WALLS ≤ 15 PSF	IBC 1705.12.5
EMERGENCY OR STANDBY POWER SYSTEMS	ANCHORAGE OF EQUIPMENT TO STRUCTURE		X		IBC 1705.12.6
PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING HAZARDOUS MATERIALS	ANCHORAGE AND BRACING OF EQUIPMENT TO STRUCTURE		X		IBC 1705.12.6
HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS	ANCHORAGE AND BRACING OF DUCTWORK TO STRUCTURE		X		IBC 1705.12.6
VIBRATION ISOLATION SYSTEMS	INSTALLATION OF SYSTEMS REQUIRING ≤ 1/4 INCH CLEARANCE BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT		X		IBC 1705.12.6, 1705.12.8
MECHANICAL AND ELECTRICAL SYSTEMS	MINIMUM CLEARANCE TO SPRINKLER PIPING OF 3"		X		IBC 1705.12.6

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- REVIEW OF TESTING AND INSPECTION REPORTS.
- REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST			
@	AT	HDR	HEADER
A.B.	ANCHOR BOLT	HGR	HANGER
ADD'L	ADDITIONAL	HORIZ.	HORIZONTAL
A.F.F.	ABOVE FINISH FLOOR	HSS	HOLLOW STRUCTURAL SECTION
ALT.	ALTERNATE	HT	HEIGHT
ARCH.	ARCHITECTURAL	INT.	INTERIOR
BLD'G	BUILDING	JST	JOIST
BLK'G	BLOCKING	JT	JOINT
BM	BEAM	L	ANGLE
B.O.F.	BOTTOM OF FOOTING	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM
BOT.	BOTTOM	L.L.	LIVE LOAD
BRB	BUCKLING RESTRAINED BRACE	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LOC.	LOCATION
B.U.	BUILT UP	LSL	LAMINATED STRAND LUMBER
(C=)	CAMBER	LVL	LAMINATED VENEER LUMBER
CANT.	CANTILEVER	MAX.	MAXIMUM
CFS	COLD-FORMED STEEL	M.B.	MACHINE BOLT
C.J.	CONTROL/CONSTRUCTION JOINT	MECH.	MECHANICAL
℄	CENTERLINE	MEZZ.	MEZZANINE
CLR.	CLEARANCE	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN.	MINIMUM
COL.	COLUMN	MISC.	MISCELLANEOUS
CONC.	CONCRETE	MTL	METAL
CONN.	CONNECTION	N.F.	NEAR FACE
CONST.	CONSTRUCTION	N.S.	NEAR SIDE
CONT.	CONTINUOUS	NTS	NOT TO SCALE
CONTR.	CONTRACTOR	O.C.	ON CENTER
COORD.	COORDINATE	OPN'G	OPENING
C.P.	COMPLETE PENETRATION	OPP.	OPPOSITE
CTR'D	CENTERED	P.A.F.	POWDER ACTUATED FASTENER
C.Y.	CUBIC YARD	PERP.	PERPENDICULAR
DBL.	DOUBLE	⅊	PLATE
DCW	DEMAND CRITICAL WELD	P.P.	PARTIAL PENETRATION
D.F.	DOUGLAS FIR	P.P.T.	PRESERVATIVE PRESSURE TREATED
DIA. OR ϕ	DIAMETER	P.S.F.	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	PSL	PARALLAM
DIM.	DIMENSION	P.T.	POST TENSION
D.L.	DEAD LOAD	PW.	PLYWOOD
DWG	DRAWING	REINF.	REINFORCEMENT
DWL	DOWEL	REQ'D	REQUIRED
(E)	EXISTING	SCHED.	SCHEDULE
EA.	EACH	SCL	STRUCTURAL COMPOSITE LUMBER
E.F.	EACH FACE	SHT'G	SHEATHING
EL.	ELEVATION	SIM.	SIMILAR
ELEV.	ELEVATOR	S.O.G.	SLAB ON GRADE
ENGR	ENGINEER	SQ.	SQUARE
EQ.	EQUAL	STD	STANDARD
E.W.	EACH WAY	STIFF.	STIFFENER
EXP.	EXPANSION	STL	STEEL
EXT.	EXTERIOR	STRUCT.	STRUCTURAL
FDN	FOUNDATION	T&B	TOP & BOTTOM
F.F.	FAR FACE	T&G	TONGUE AND GROOVE
FLR	FLOOR	THR'D	THREADED
F.O.M.	FACE OF MASONRY	T.O.F.	TOP OF FOOTING
F.O.S.	FACE OF STUD	T.O.S.	TOP OF STEEL
FRM'G	FRAMING	TRT'D	TREATED
F.R.T.	FIRE RETARDANT TREATED	TYP.	TYPICAL
F.S.	FAR SIDE	U.N.O.	UNLESS NOTED OTHERWISE
FTG	FOOTING	U.T.	ULTRASONIC TESTED
GA.	GAGE/GAUGE	VERT.	VERTICAL
GALV.	GALVANIZED	W/	WITH
GL.	GLULAM	W.P.	WORK POINT
GR.	GRADE	WT	WEIGHT
GWB	GYPSUM WALL BOARD	W.W.R.	WELDED WIRE REINFORCING

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GENERAL NOTES

S0.2

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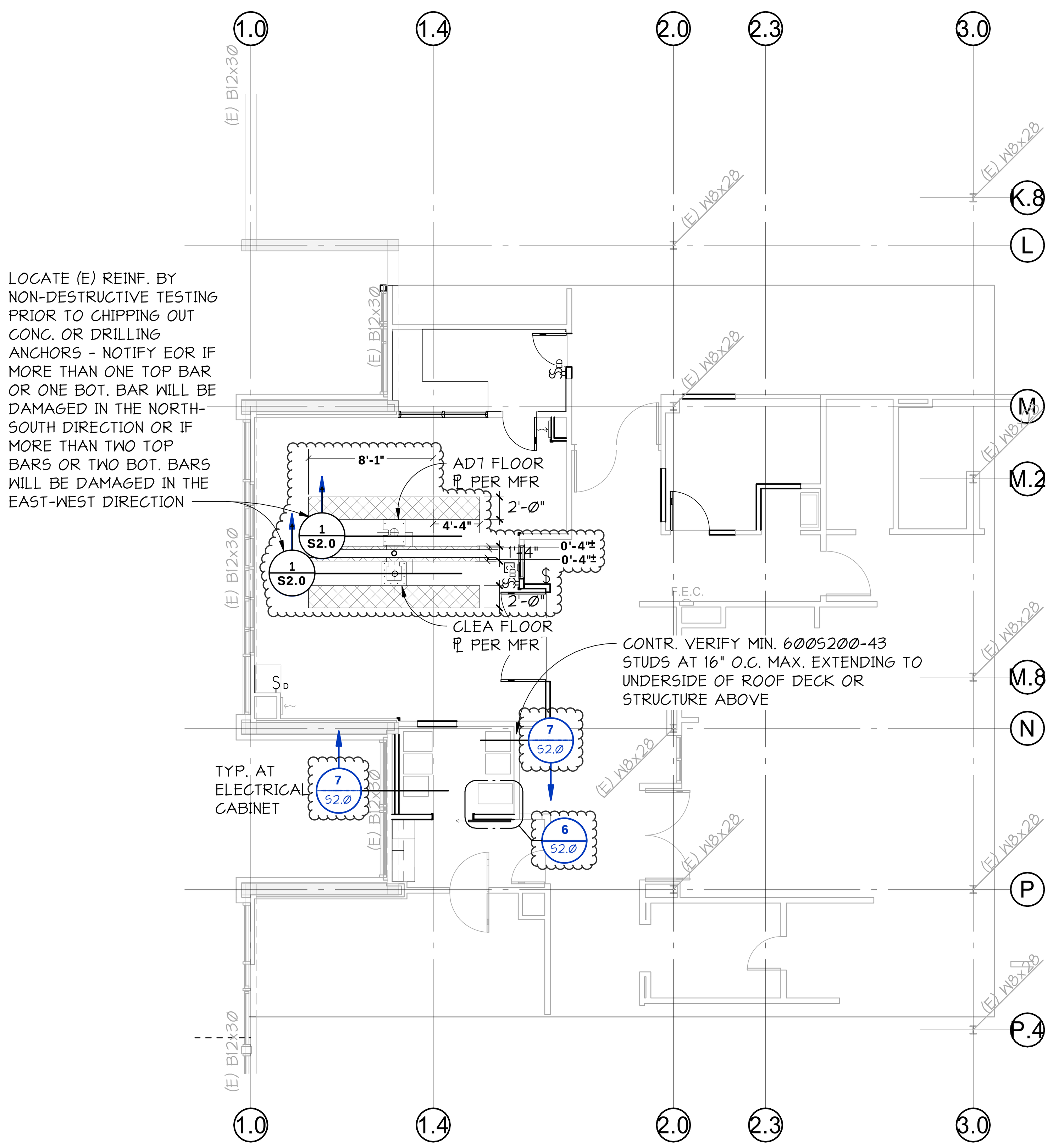
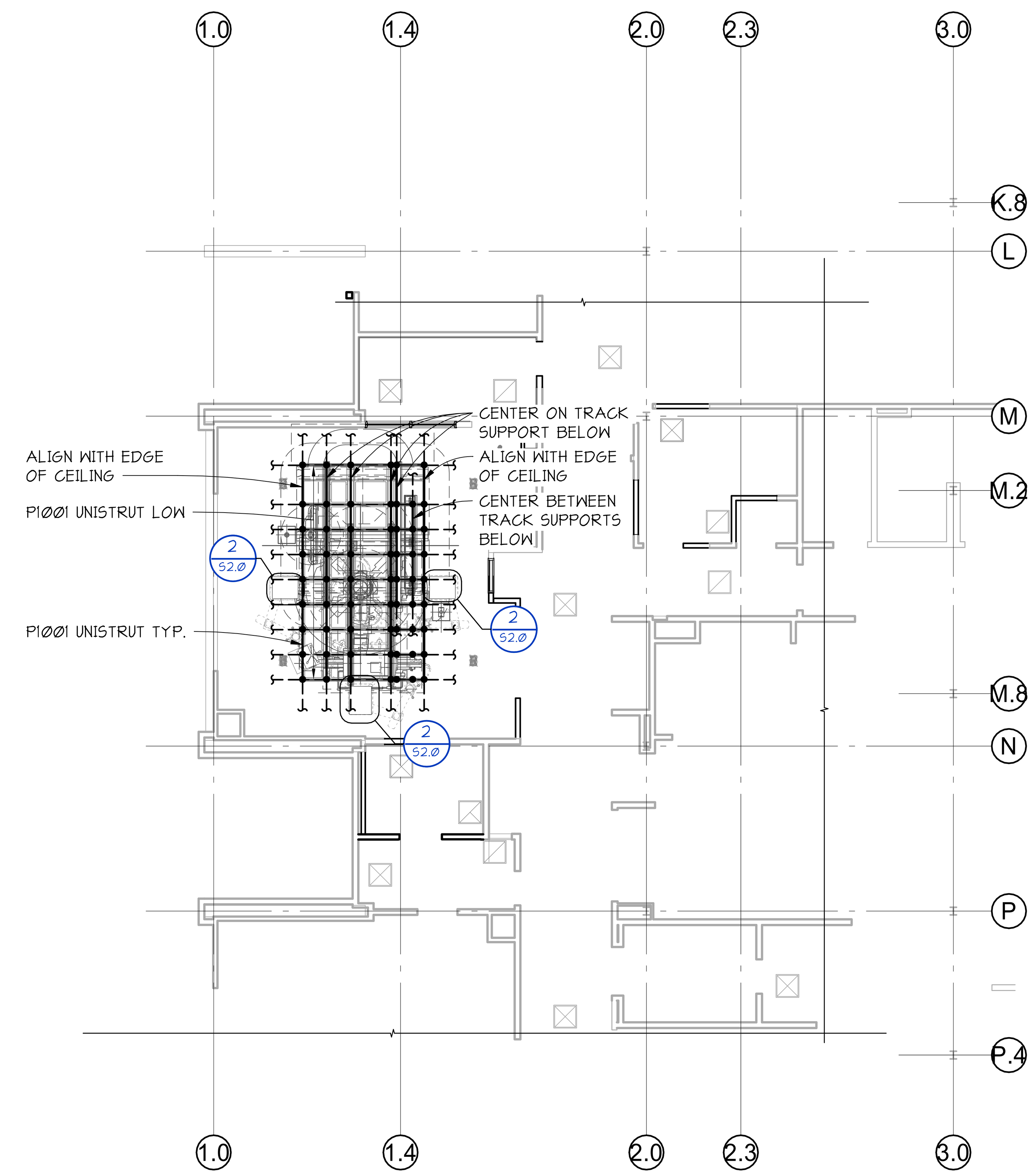
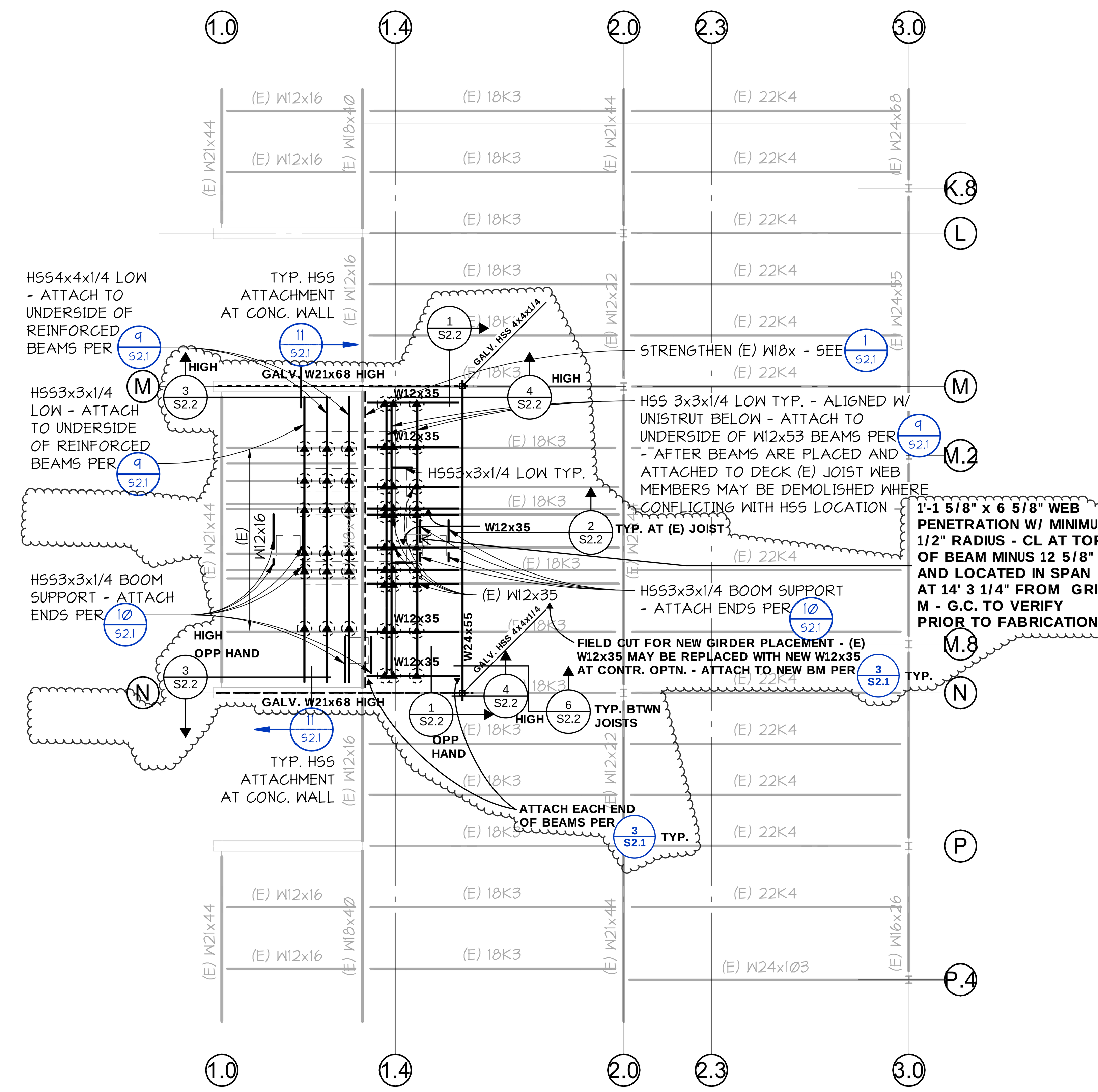


1 / S1.0 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"



2 / S1.0 LEVEL 2 CEILING FRAMING
1/8" = 1'-0"



3 / S1.0 ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES:

1. INDICATES VERTICAL SUPPORT LOCATION PER 7/S2.1

2. INDICATES UNISTRUT P1000 BRACE ORIGINATING AT UNISTRUT AND EXTENDING UP TO STEEL FRAMING PER 8/S2.1. BRACE MAY EXTEND EITHER DIRECTION PARALLEL TO BRACED UNISTRUT.

3. CONTRACTOR SHORE BEAMS LEVEL (STRAIGHT FOR SLOPED BEAMS) PRIOR TO INSTALLING STRENGTHENING ELEMENTS.

4. LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING PRIOR TO CHIPPING OUT CONCRETE OR DRILLING ANCHORS - NOTIFY EOR IF MORE THAN ONE TOP BAR OR ONE BOTTOM BAR WILL BE DAMAGED IN THE NORTH-SOUTH DIRECTION OR IF MORE THAN TWO TOP BARS OR TWO BOTTOM BARS WILL BE DAMAGED IN THE EAST-WEST DIRECTION.

5. FOR TYPICAL BEAM SPLICE SEE 5/S2.1.

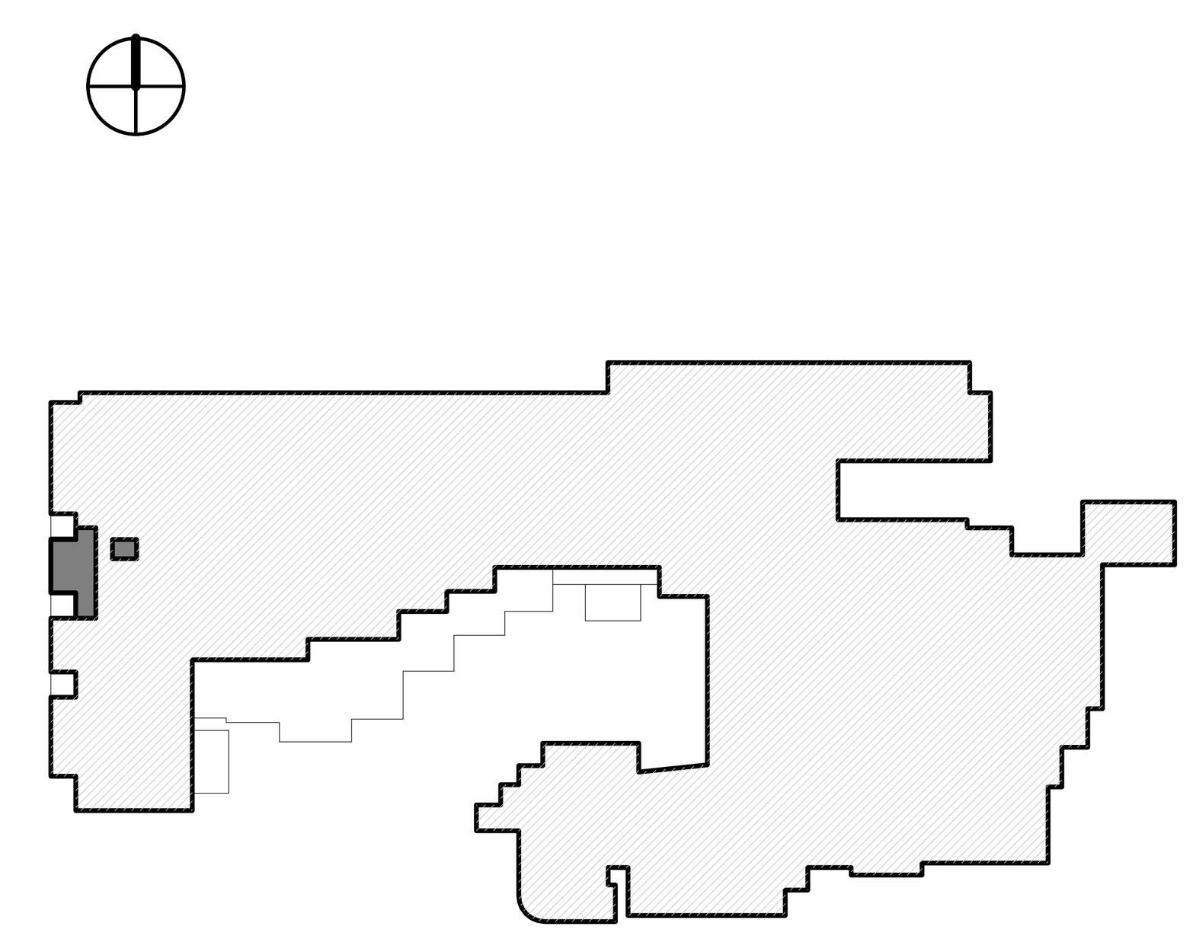
6. FOR TYPICAL ATTACHMENT OF NEW WIDE-FLANGE BEAMS TO EXISTING METAL DECK SEE 4/S2.1

7. INDICATES REGION TO RECEIVE FRP COLLECTORS - PROVIDE TOTAL ADDED STRENGTH OF ALL (3) LINES IN BALANCED ARRANGEMENT EQUIVALENT TO (10) #4 BARS (Fy = 60KSI) - DESIGN FOR STRAIN = 0.002

8. **INDICATES HSS ATTACHMENT TO BEAM ABOVE PER 9/S2.1**

KEY PLAN - LEVEL 2

AREA OF WORK



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FRAMING PLANS

S1.0

A B C D E F

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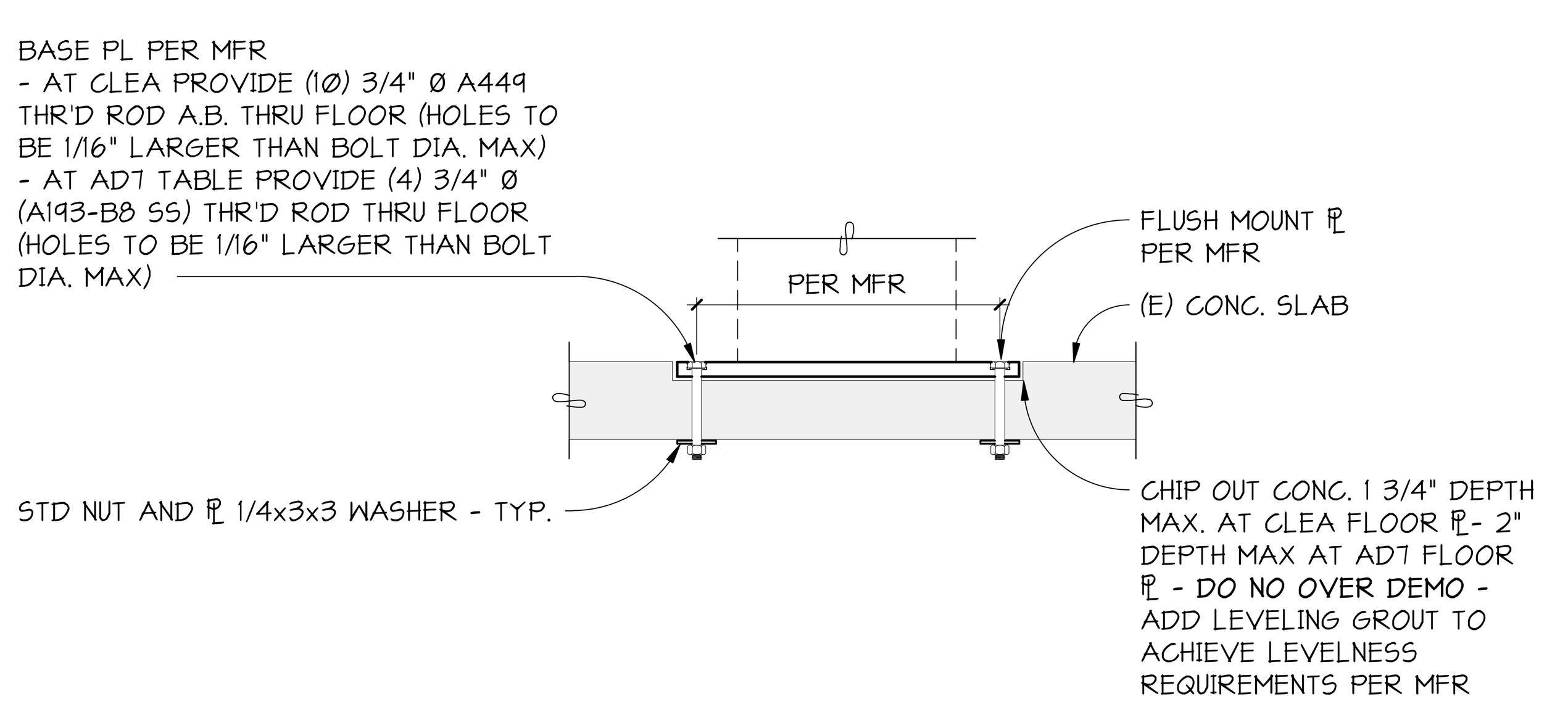
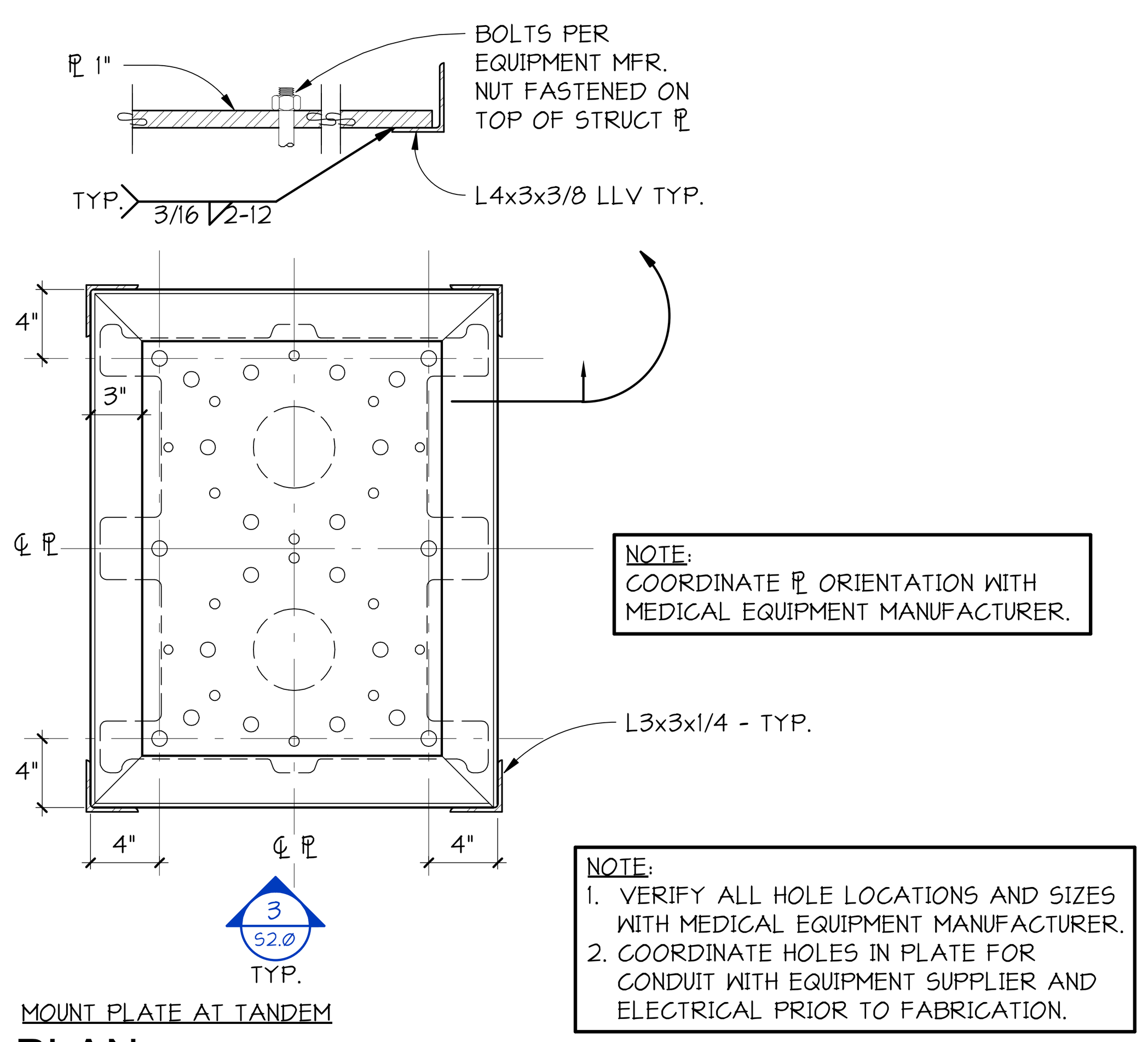
NOTE:
LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING PRIOR TO CHIPPING OUT CONCRETE OR DRILLING ANCHORS - NOTIFY EOR IF MORE THAN ONE TOP BAR OR ONE BOTTOM BAR WILL BE DAMAGED IN THE NORTH-SOUTH DIRECTION OR IF MORE THAN TWO TOP BARS OR TWO BOTTOM BARS WILL BE DAMAGED IN THE EAST-WEST DIRECTION



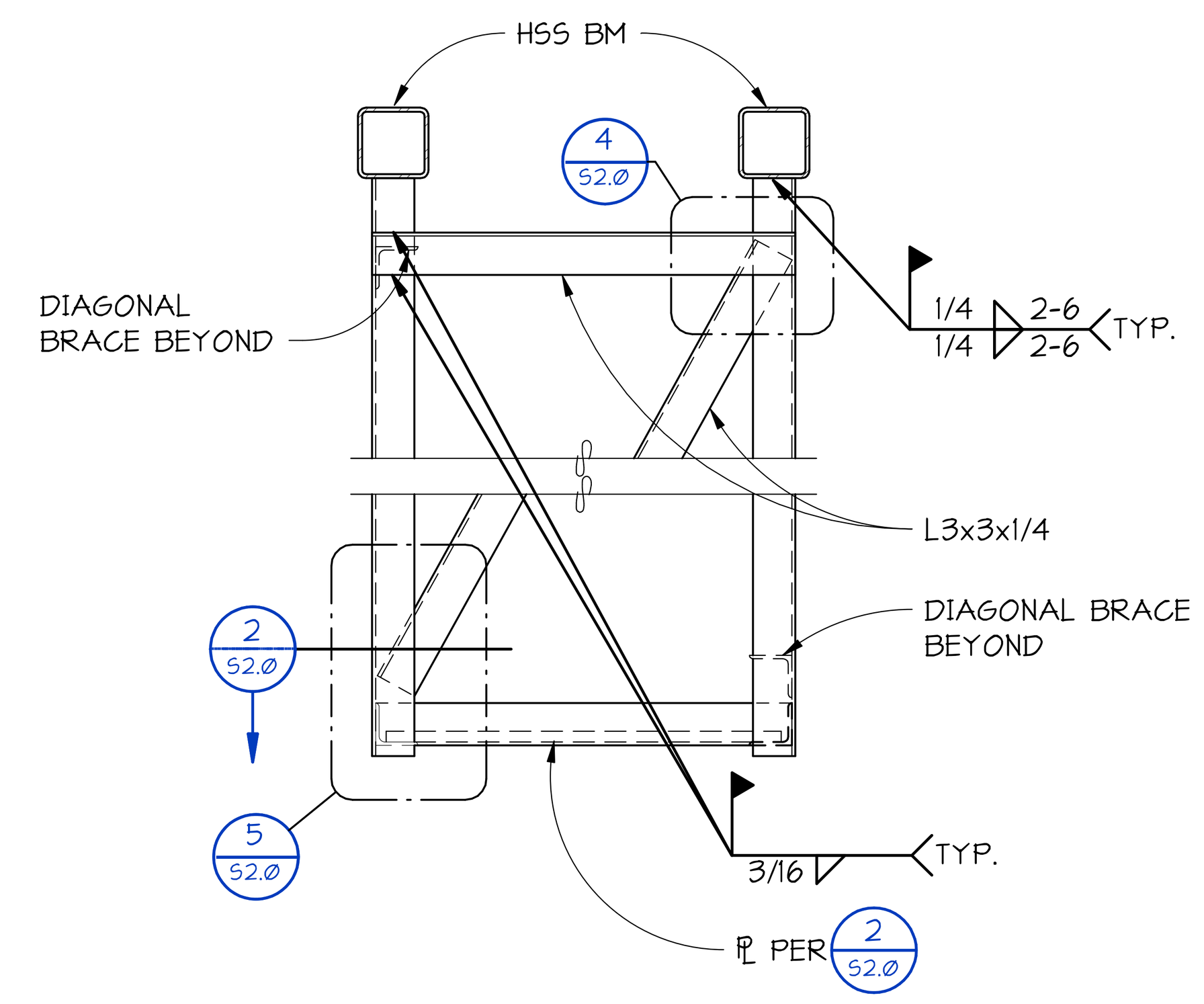
1 SECTION
S2.0 1" = 1'-0"



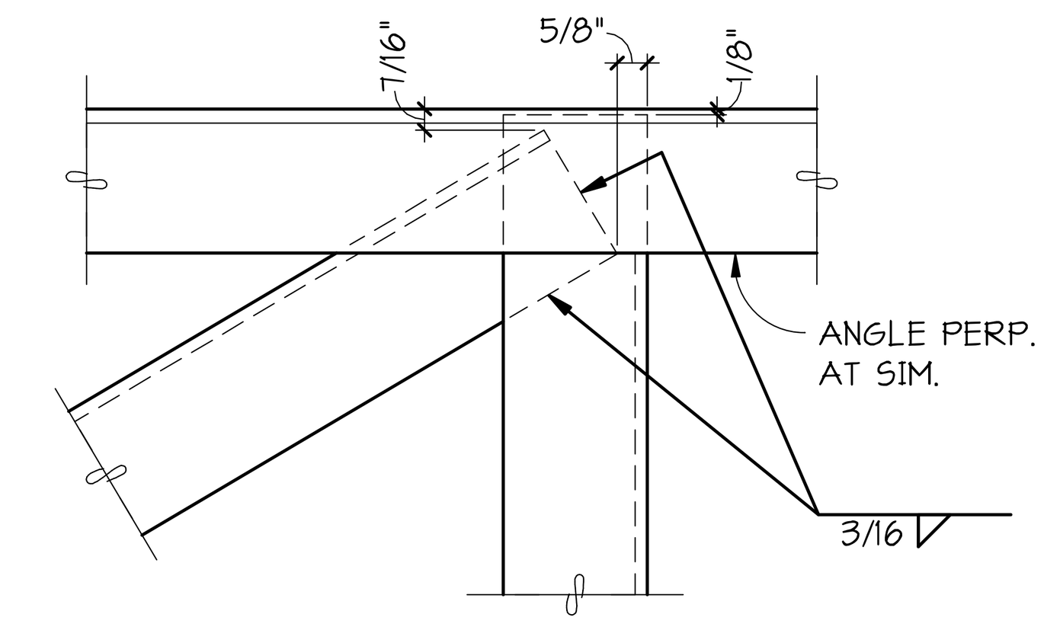
NOTE:
COORDINATE ℙ ORIENTATION WITH MEDICAL EQUIPMENT MANUFACTURER.

NOTE:
1. VERIFY ALL HOLE LOCATIONS AND SIZES WITH MEDICAL EQUIPMENT MANUFACTURER.
2. COORDINATE HOLES IN PLATE FOR CONDUIT WITH EQUIPMENT SUPPLIER AND ELECTRICAL PRIOR TO FABRICATION.

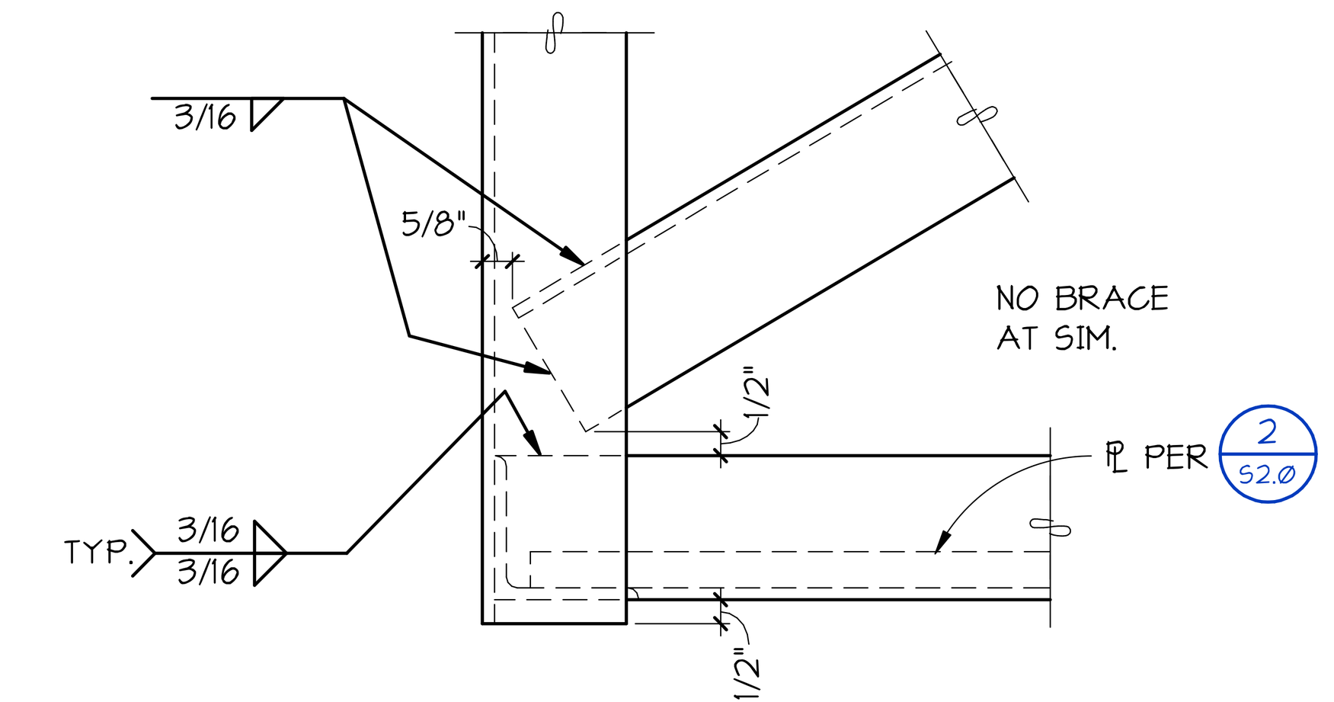
2 PLAN
S2.0 1 1/2" = 1'-0"



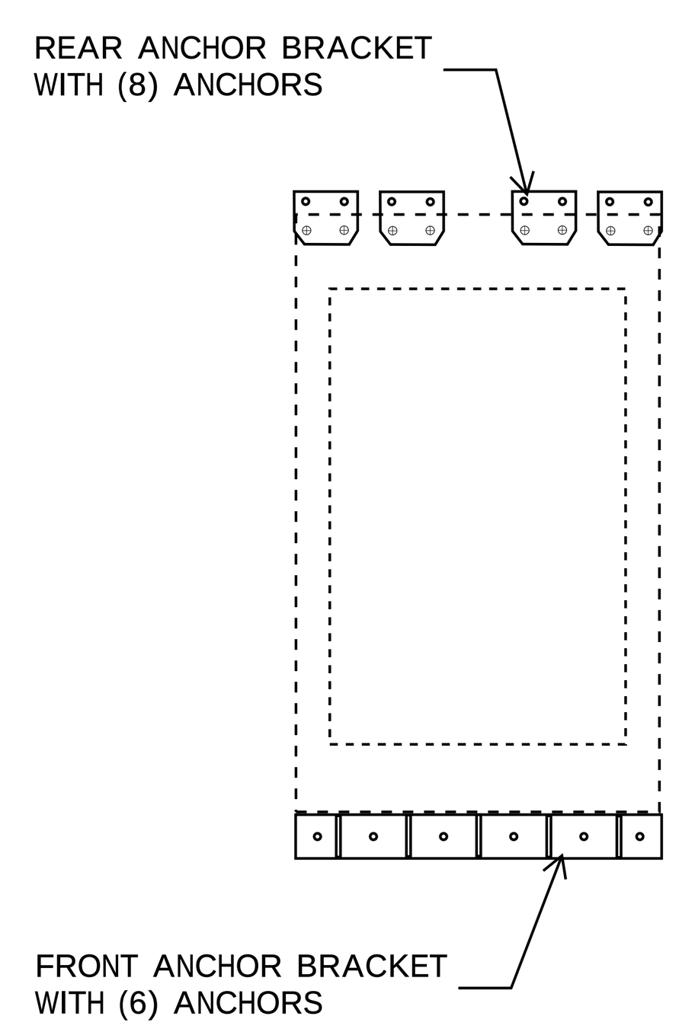
3 ELEVATION
S2.0 1" = 1'-0"



4 TYPICAL CONNECTION
S2.0 3" = 1'-0"



5 TYPICAL CONNECTION
S2.0 3" = 1'-0"



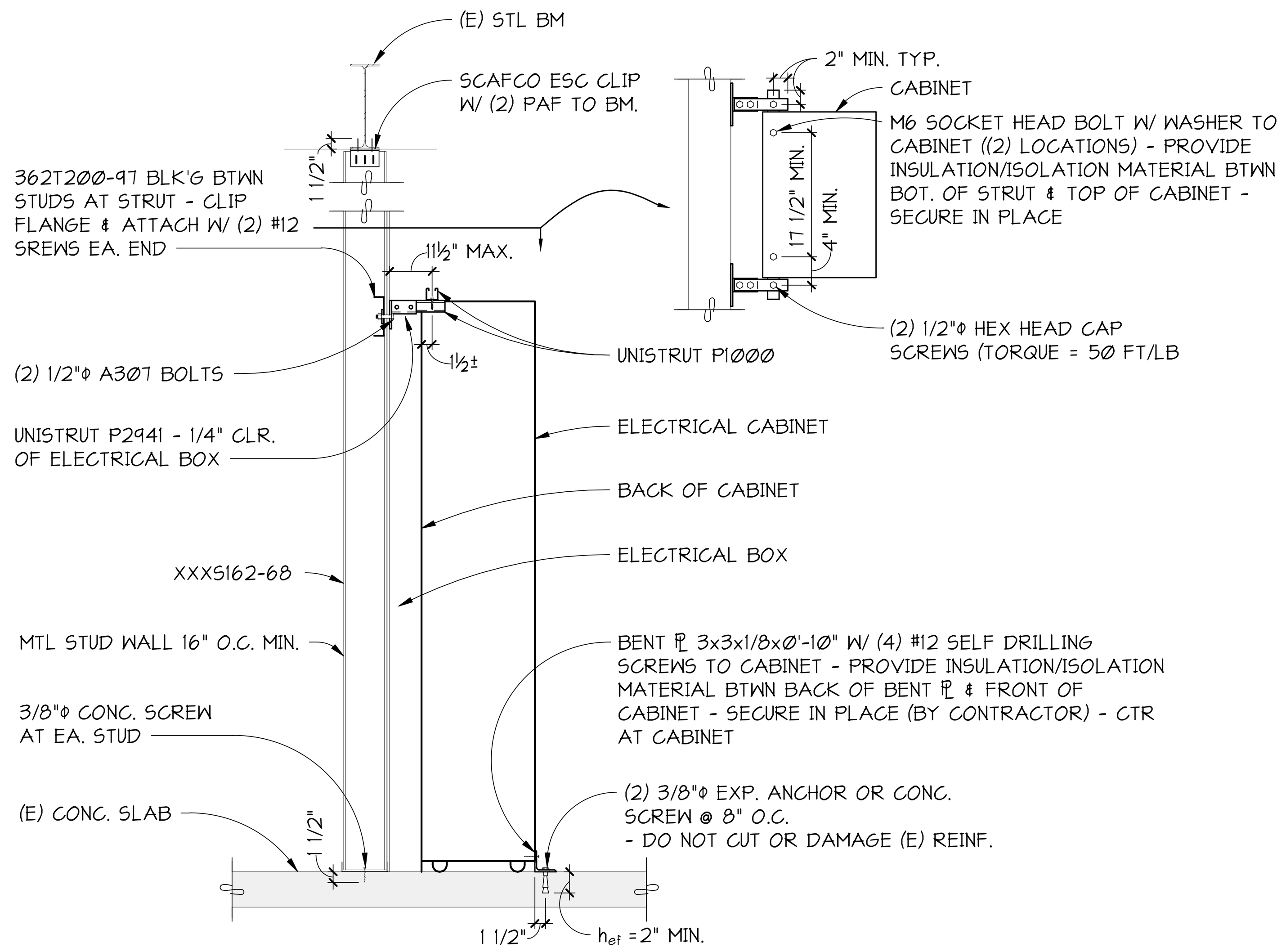
NOTE:
○ 1/2"ɸ ADHESIVE ANCHOR - EMBED 4"
- DO NOT CUT OR DAMAGE (E) REINF.
× HOLE NOT USED

BRACKET PROVIDED BY MFR.

FOLLOW MFR GUIDE FOR INSTALLATION SEQUENCE AND BRACKET-TO-EQUIPMENT CONNECTION.

PLAN VIEW - UPS BASE ANCHORS

6 SECTION
S2.0 1" = 1'-0"



7 SECTION
S2.0 3/4" = 1'-0"

C L A R K // K J O S
A R C H I T E C T S, L L C

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DETAILS

S2.0

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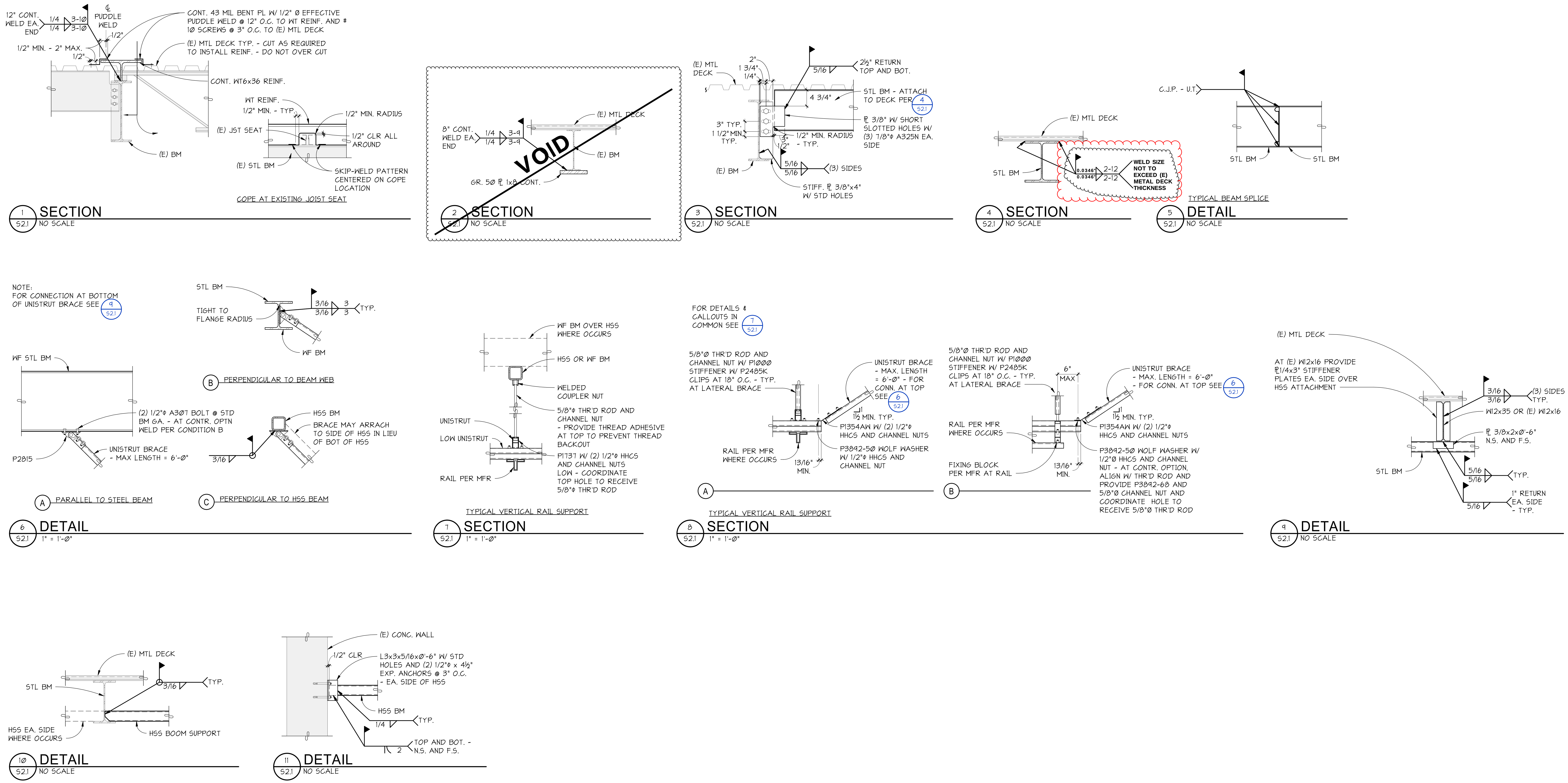

12" CONT. WELD EA. END
1/4 3-10
℄ PUDDLE WELD
CONT. 43 MIL BENT PL W/ 1/2" Ø EFFECTIVE PUDDLE WELD @ 12" O.C. TO WT REINF. AND #10 SCREWS @ 3" O.C. TO (E) MTL DECK
1/2" MIN. - 2" MAX.
(E) MTL DECK TYP. - CUT AS REQUIRED TO INSTALL REINF. - DO NOT OVER CUT
CONT. WT6x36 REINF.
WT REINF.
1/2" MIN. - TYP.
1/2" MIN. RADIUS
(E) JST SEAT
1/2" CLR ALL AROUND
(E) BM
(E) STL BM
SKIP-WELD PATTERN CENTERED ON COPE LOCATION
COPE AT EXISTING JOIST SEAT
1 S2.1 SECTION NO SCALE
8" CONT. WELD EA. END
1/4 3-9
(E) MTL DECK
(E) BM
GR. 50 ℄ 1x8 CONT.
VOID
2 S2.1 SECTION NO SCALE
(E) MTL DECK
2"
1 3/4"
1/4"
5/16
2½" RETURN TOP AND BOT.
4 3/4"
STL BM - ATTACH TO DECK PER 4 S2.1
℄ 3/8" W/ SHORT SLOTTED HOLES W/ (3) 7/8"Ø A325N EA. SIDE
3" TYP.
1 1/2" MIN. TYP.
1/2" MIN. RADIUS - TYP.
(E) BM
5/16 (3) SIDES
STIFF. ℄ 3/8"x4" W/ STD HOLES
3 S2.1 SECTION NO SCALE
(E) MTL DECK
STL BM
0.0346 2-12
WELD SIZE NOT TO EXCEED (E) METAL DECK THICKNESS
4 S2.1 SECTION NO SCALE
C.J.P. - U.T.
STL BM
TYPICAL BEAM SPLICE
5 S2.1 DETAIL NO SCALE
NOTE: FOR CONNECTION AT BOTTOM OF UNISTRUT BRACE SEE 9 S2.1
STL BM
TIGHT TO FLANGE RADIUS
3/16 3 TYP.
WF BM
B PERPENDICULAR TO BEAM WEB
WF STL BM
(2) 1/2"Ø A307 BOLT @ STD BM GA. - AT CONTR. OPTN WELD PER CONDITION B
P2815
UNISTRUT BRACE - MAX LENGTH = 6'-0"
HSS BM
BRACE MAY ARRACH TO SIDE OF HSS IN LIEU OF BOT OF HSS
3/16
A PARALLEL TO STEEL BEAM
C PERPENDICULAR TO HSS BEAM
6 S2.1 DETAIL 1" = 1'-0"
WF BM OVER HSS WHERE OCCURS
HSS OR WF BM
WELDED COUPLER NUT
5/8"Ø THR'D ROD AND CHANNEL NUT - PROVIDE THREAD ADHESIVE AT TOP TO PREVENT THREAD BACKOUT
UNISTRUT
LOW UNISTRUT
P1131 W/ (2) 1/2"Ø HHCS AND CHANNEL NUTS
LOW - COORDINATE TOP HOLE TO RECEIVE 5/8"Ø THR'D ROD
RAIL PER MFR
TYPICAL VERTICAL RAIL SUPPORT
7 S2.1 SECTION 1" = 1'-0"
FOR DETAILS & CALLOUTS IN COMMON SEE 7 S2.1
5/8"Ø THR'D ROD AND CHANNEL NUT W/ P1000 STIFFENER W/ P2485K CLIPS AT 18" O.C. - TYP. AT LATERAL BRACE
UNISTRUT BRACE - MAX. LENGTH = 6'-0" - FOR CONN. AT TOP SEE 6 S2.1
1½ MIN. TYP.
P1354AW W/ (2) 1/2"Ø HHCS AND CHANNEL NUTS
P3842-50 WOLF WASHER W/ 1/2"Ø HHCS AND CHANNEL NUT
RAIL PER MFR WHERE OCCURS
13/16" MIN.
A
6" MAX
FIXING BLOCK PER MFR AT RAIL
P3842-50 WOLF WASHER W/ 1/2"Ø HHCS AND CHANNEL NUT - AT CONTR. OPTION, ALIGN W/ THR'D ROD AND PROVIDE P3842-68 AND 5/8"Ø CHANNEL NUT AND COORDINATE HOLE TO RECEIVE 5/8"Ø THR'D ROD
B
TYPICAL VERTICAL RAIL SUPPORT
8 S2.1 SECTION 1" = 1'-0"
(E) MTL DECK
AT (E) W12x16 PROVIDE ℄1/4x3" STIFFENER PLATES EA. SIDE OVER HSS ATTACHMENT
3/16 (3) SIDES TYP.
W12x35 OR (E) W12x16
℄ 3/8x2x0'-6" N.S. AND F.S.
STL BM
5/16 TYP.
1" RETURN EA. SIDE - TYP.
9 S2.1 DETAIL NO SCALE
(E) MTL DECK
STL BM
3/16 TYP.
HSS EA. SIDE WHERE OCCURS
HSS BOOM SUPPORT
10 S2.1 DETAIL NO SCALE
(E) CONC. WALL
1/2" CLR
L3x3x5/16x0'-6" W/ STD HOLES AND (2) 1/2"Ø x 4½" EXP. ANCHORS @ 3" O.C. - EA. SIDE OF HSS
HSS BM
1/4 TYP.
TOP AND BOT. - N.S. AND F.S.
11 S2.1 DETAIL NO SCALE

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DETAILS

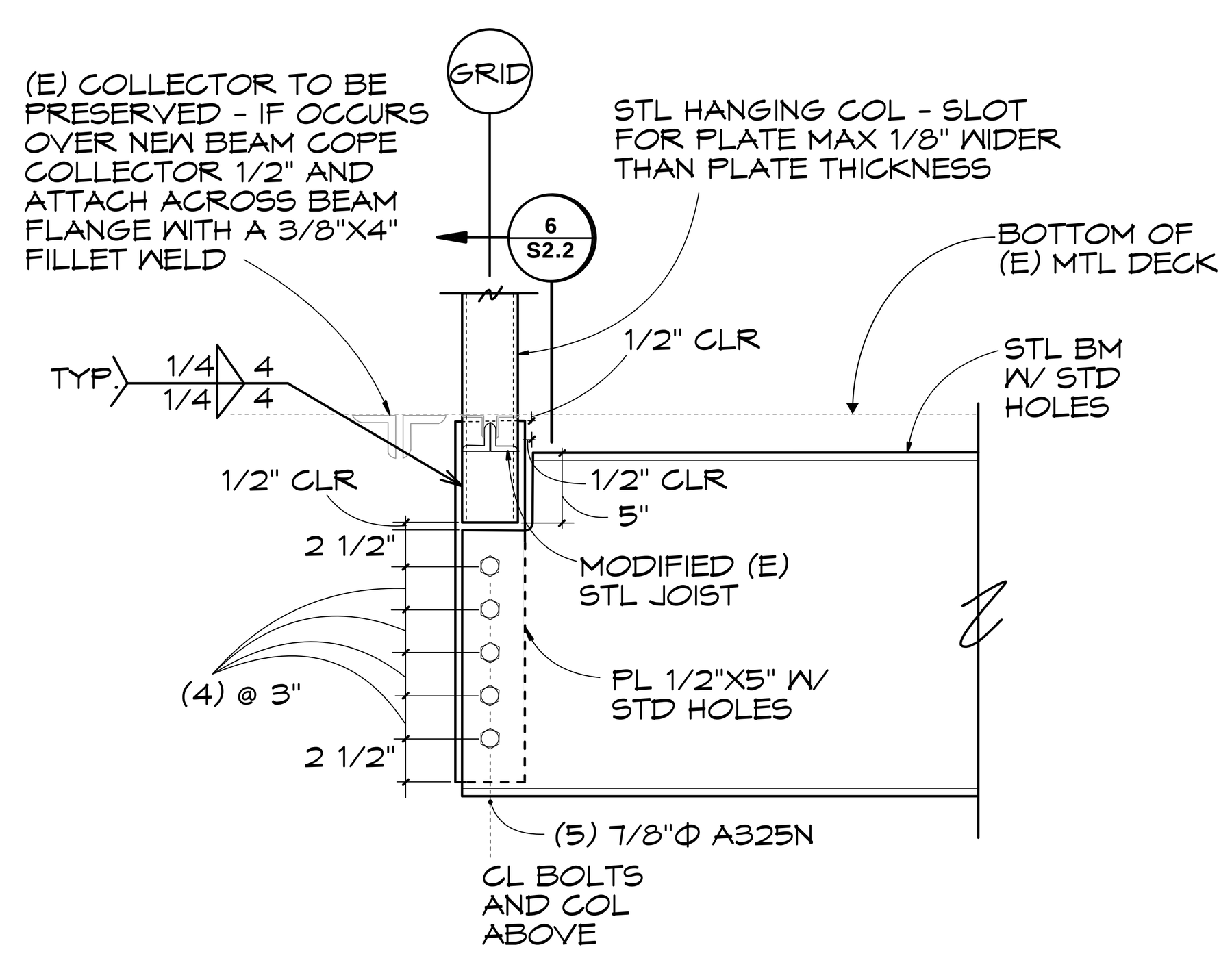
S2.1

A B C D E F

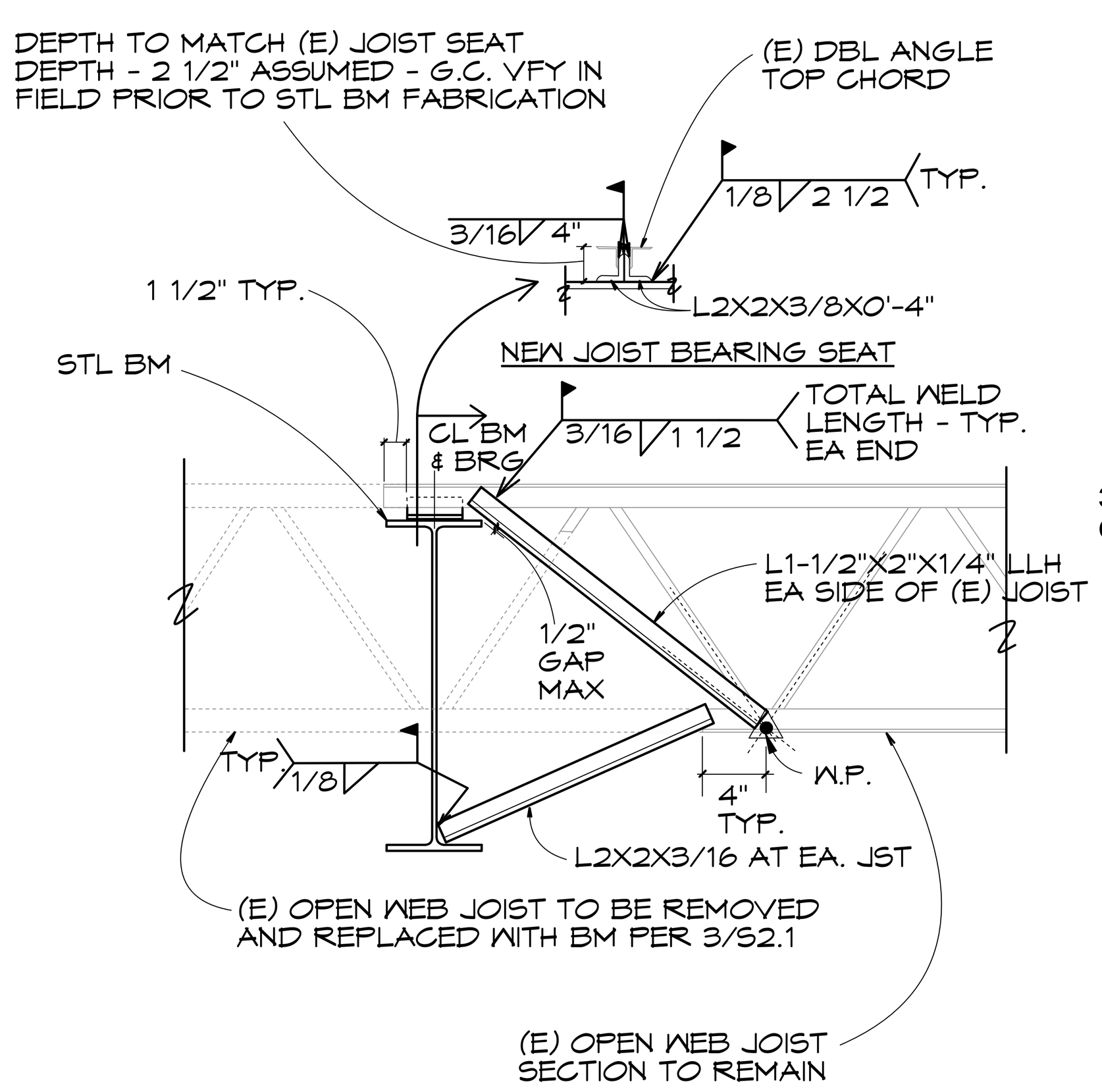
1 2 3 4 5

NOTES:
1. AT TOP CHORD CUT EXISTING WEB 2" BELOW BOTTOM OF ANGLES.
2. LOCATE NEW END WEB TO ALIGN WITH EXISTING WORKPOINT AT BOTTOM PANEL POINT.
3. PRESERVE BRIDGING AT REMAINING BOTTOM CHORD.
4. IF NO EXISTING BRIDGING OCCURS AT THE BOTTOM CHORD WORKPOINT PROVIDE NEW BRIDGING TO MATCH EXISTING AND EXTEND (2) BAYS BEYOND MODIFIED JOISTS
5. NEW BEAM PER 3/S2.1 NOT SHOWN FOR CLARITY

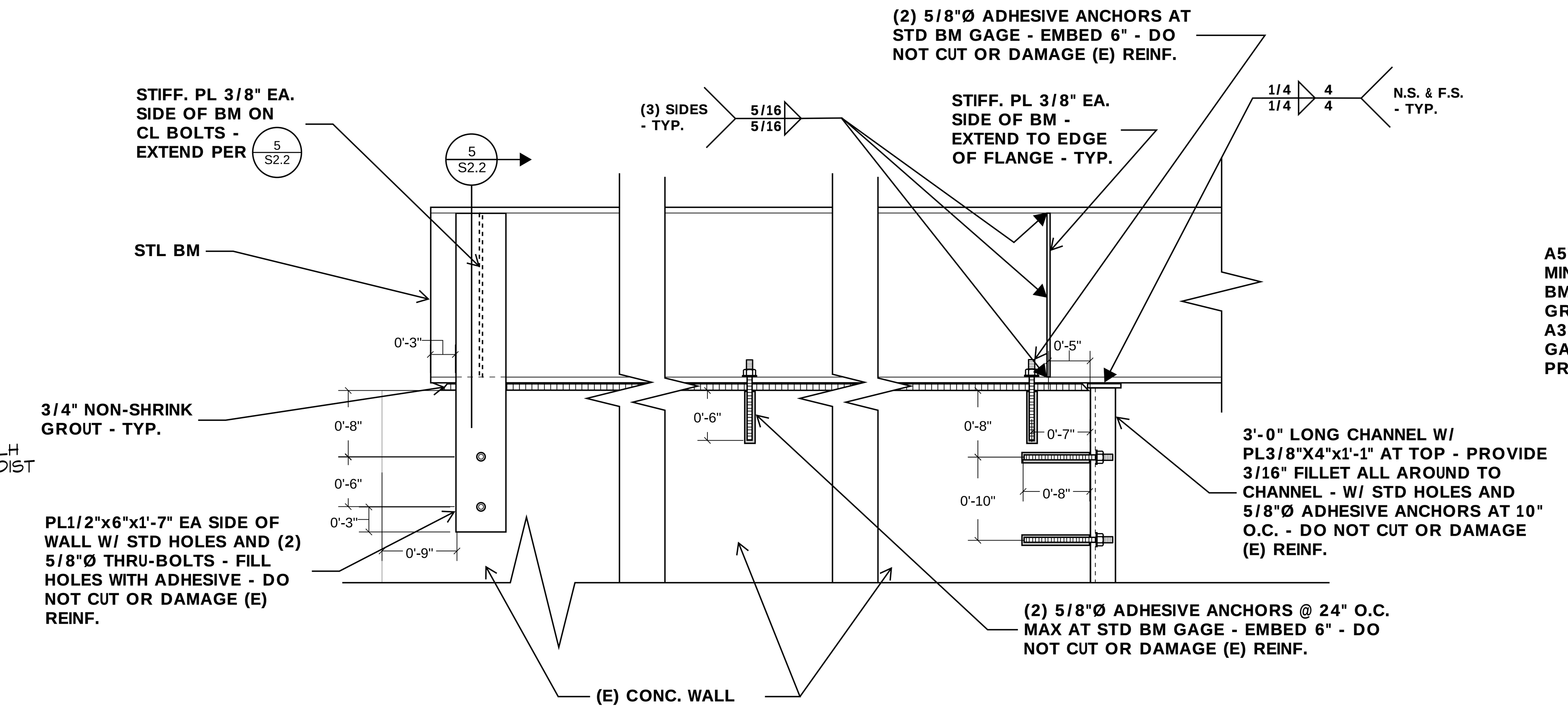
NOTE: ALL STEEL ABOVE METAL ROOF DECK TO BE GALVANIZED



1 S2.2 SECTION 1"=1'-0"

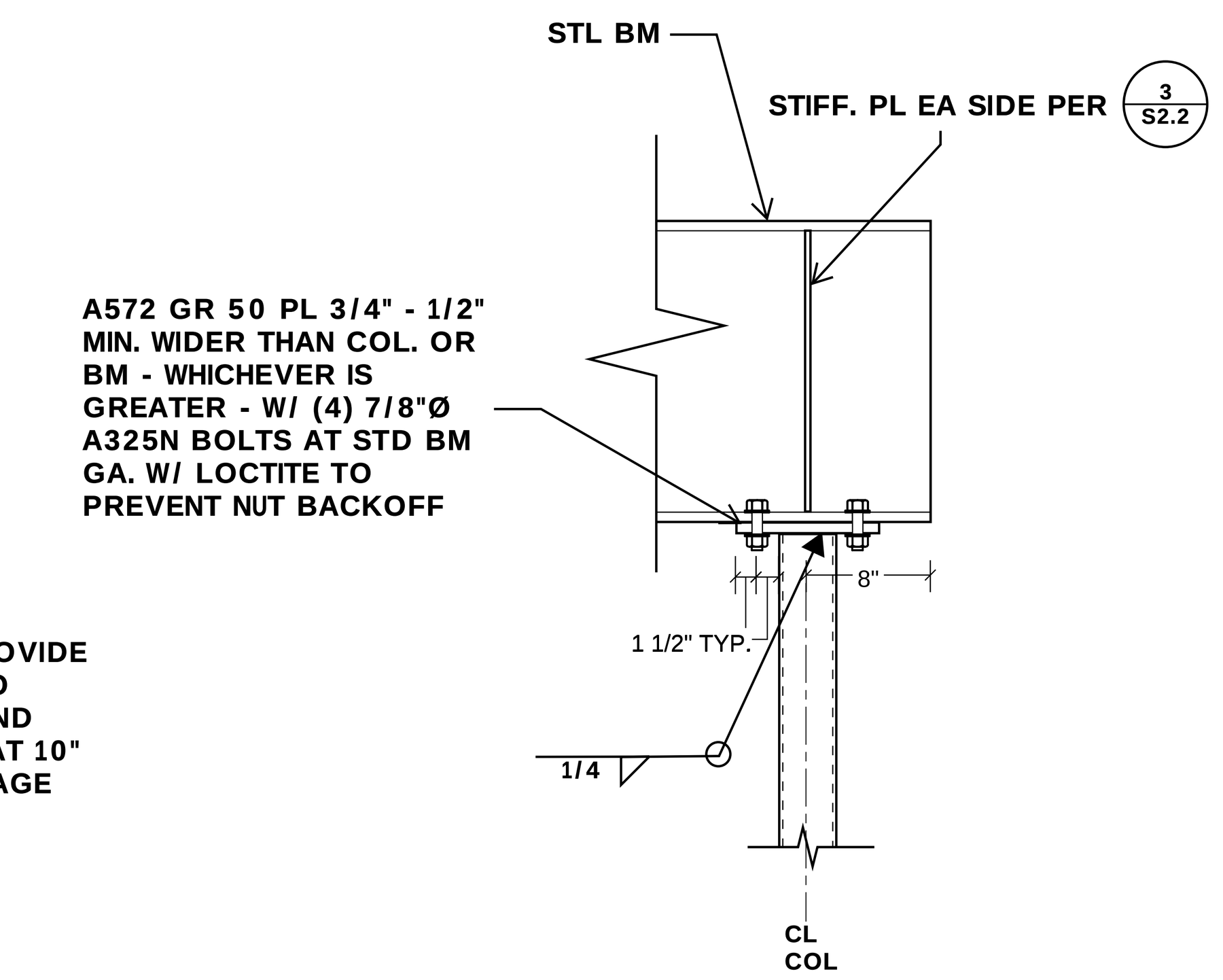


2 S2.2 SECTION 1"=1'-0"



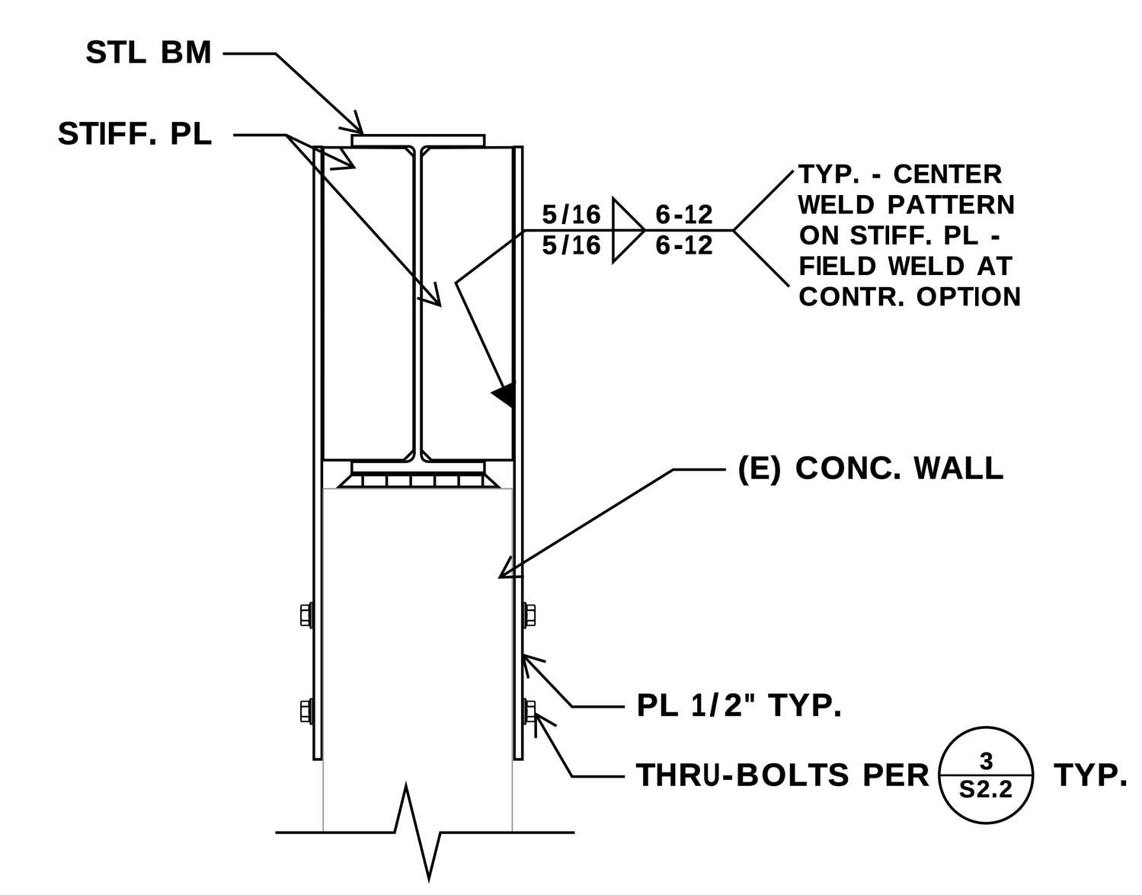
3 S2.2 SECTION 1"=1'-0"

NOTE: ALL STEEL ABOVE METAL ROOF DECK TO BE GALVANIZED



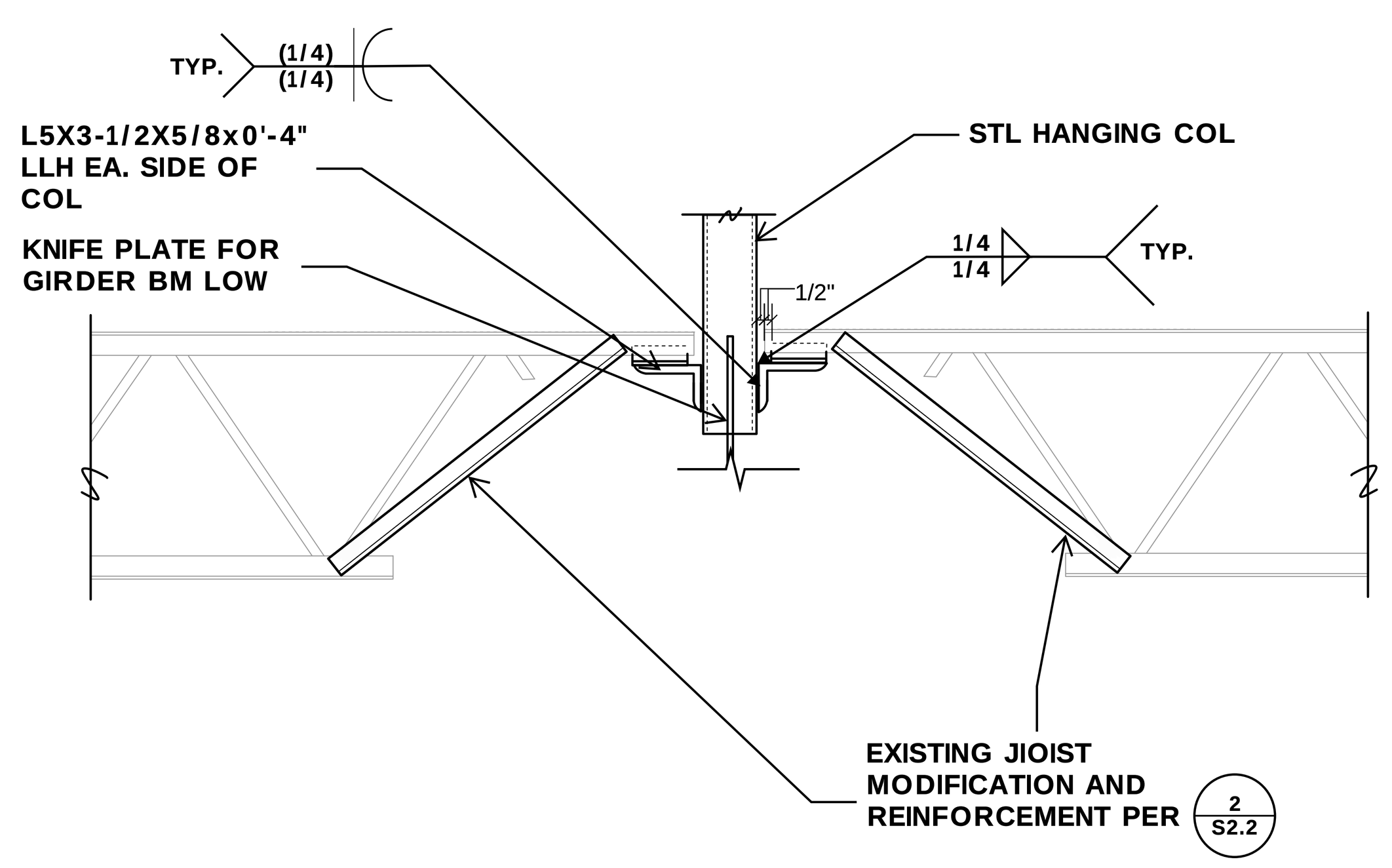
4 S2.2 SECTION 1"=1'-0"

NOTE: ALL STEEL ABOVE METAL ROOF DECK TO BE GALVANIZED



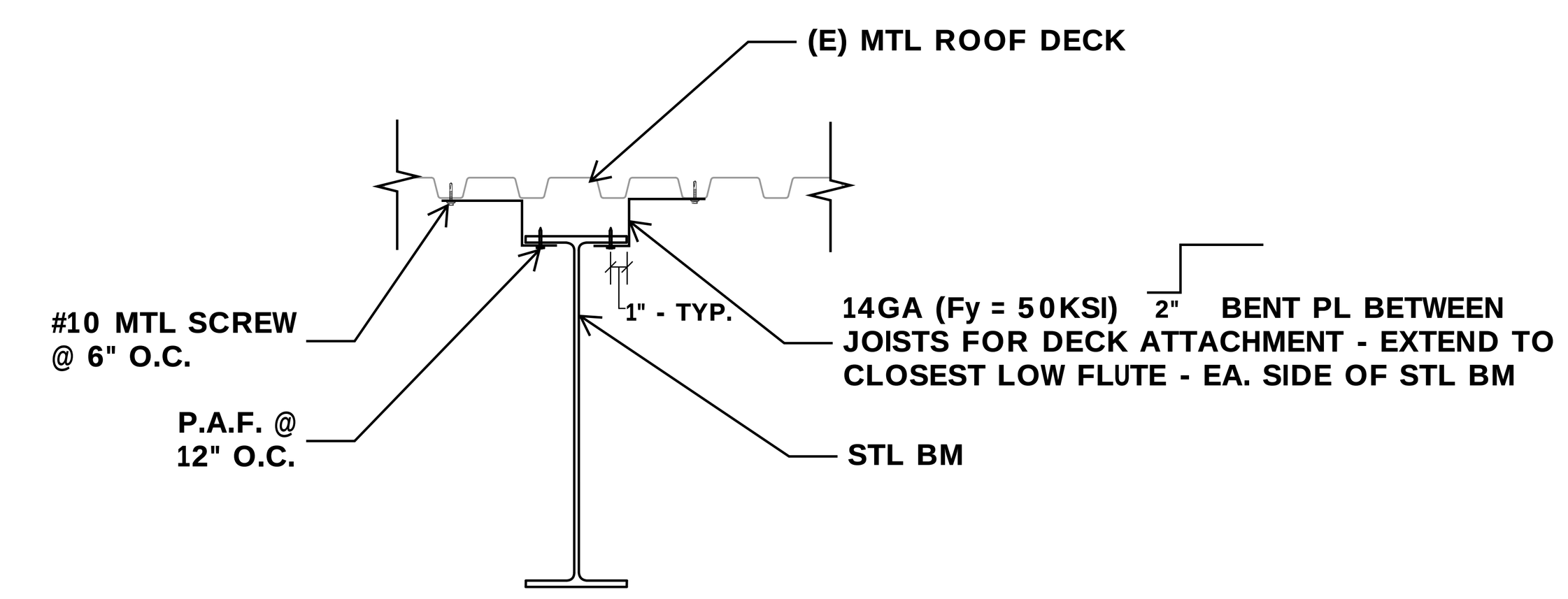
5 S2.2 SECTION 1"=1'-0"

NOTES:
1. EXISITNG ROOF DECK AND GIRDER LOW NOT SHOWN FOR CLARITY
2. PROVIDE BRACING TO GIRDER BOTTOM FLANGE SIMILAR TO 2/S2.2
3. SEE 2/S2.2 FOR ADDITIONAL NOTES AND CALLOUTS IN COMMON
4. ALL STEEL ABOVE METAL ROOF DECK TO BE GALVANIZED



6 S2.2 DETAIL 1"=1'-0"

NOTE: POWDER ACTUATED FASTENERS SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENER BY HILTI OR PRE-APPROVED EQUAL. INSTALL PER ALL MANUFACTURER'S PUBLISHED RECOMMENDATIONS. UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER -FASTENER TIP SHALL PENETRATE STRUCTURAL STEEL.



6 S2.2 DETAIL 1"=1'-0"

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NEW REVISED SHEET

S2.2

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MECHANICAL SYMBOL SCHEDULE, ABBREVIATIONS, GENERAL NOTES AND CONDITIONS, AND BASIS OF DESIGN

SYMBOL LEGEND

Symbol	Description
	MATCH LINE
EF 1	EQUIPMENT TAG
	POINT OF CONNECTION, NEW WORK TO EXISTING WORK
	POINT OF DISCONNECTION
SD-1 550	AIR OUTLET/ INLET DEVICE DESIGNATION — SD-1 12X12 550: DEVICE; NECK SIZE OPTIONAL (IF NOT GIVEN REFER) TO SCHEDULE); AIRFLOW (CFM)
	NEW WORK
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
UP / DN	SLOPE PIPE UP OR DOWN (DN) AS NOTED
	BOTTOM / UP PIPE CONNECTION
	PUMP (FOR DIAGRAMMATIC)
	GLOBE VALVE
	CHECK VALVE
	STOP CHECK VALVE
	CALIBRATED FLOW BALANCE VALVE
	FLOW LIMITING VALVE
	HOSE END BALL VALVE WITH CAP AND CHAIN
	BUTTERFLY VALVE
P	PITOT LOCATION
	2-WAY MODULATING CONTROL VALVE
	2-WAY 2-POSITION CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	3-WAY 2-POSITION CONTROL VALVE
	RELIEF VALVE / ANGLE VALVE
	PRESSURE REDUCING VALVE (PRV)
TAV	THERMOSTATIC AIR VENT (AIR SYSTEMS)
	PRESSURE GAUGE, STEAM SYSTEMS
	PRESSURE GAUGE, HYDRONIC SYSTEMS
VB	VACUUM BREAKER
FM	FLOW METER (INSTANTANEOUS FLOW)
M	TOTALIZING FLOW METER
FM B	BTU METER
	PIPE SLIDE
	CHANGE IN PIPE SIZE, CONCENTRIC REDUCER UNLESS SPECIFIED DIFFERENTLY
	CAPPED PIPE
	WYE TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	WYE TYPE STRAINER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	SIGHT GLASS
	HIGH PRESSURE STEAM TRAP ASSEMBLY
	LOW PRESSURE STEAM TRAP ASSEMBLY
	BLIND FLANGE
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
PCHS	PROCESS CHILLED WATER SUPPLY
PCHR	PROCESS CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CSS	CENTRIFUGAL SEPARATOR SUPPLY
CSR	CENTRIFUGAL SEPARATOR RETURN
LPS	LOW PRESSURE STEAM (0-15 PSI)
LPR	LOW PRESSURE CONDENSATE RETURN (0-15 PSI)
HPS(70)	HIGH PRESSURE STEAM (ABOVE 15 PSI, MAX STEAM PRESSURE INDICATED)
HPR(70)	HIGH PRESSURE CONDENSATE RETURN (ABOVE 15 PSI, MAX STEAM PRESSURE INDICATED)
BBD	BOILER BLOWDOWN
BFW	BOILER FEEDWATER
CD	CONDENSATE DRAIN
PCR	PUMPED CONDENSATE
D	DRAIN LINE
XX	2-WAY MODULATING CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: PI=PRESSURE INDEPENDENT)
XX	2-WAY 2-POSITION CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: BF=BUTTERFLY VALVE)
XX	3-WAY MODULATING CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: PI=PRESSURE INDEPENDENT)
XX	3-WAY 2-POSITION CONTROL VALVE, XX = SPECIAL DESIGNATION (EG: BF=BUTTERFLY VALVE)
CP	2-WAY MODULATING CHARACTERIZED PORT BALL VALVE
	SOLENOID VALVE
	RADIUS ELBOW, R/D=1.5 UNLESS NOTED OTHERWISE
	DUCT MOUNTED COIL
	SHOWN IN ORDER (LEFT TO RIGHT): FIRE DAMPER (FD) / SMOKE DAMPER (SD) / COMBINATION FIRE SMOKE DAMPER (FSD)
T TU-01	ROOM SENSOR OR THERMOSTAT (WITH ZONE OR EQUIPMENT DESIGNATION WERE APPLICABLE)
T	ROOM SENSOR OR THERMOSTAT (WITH LEADER TO RELATED EQUIPMENT
H 2	HUMIDITY SENSOR (WITH ZONE OR EQUIPMENT DESIGNATION WERE APPLICABLE)
H	HUMIDITY SENSOR (WITH LEADER TO RELATED EQUIPMENT
SD	DUCT SMOKE DETECTOR (SHOWN HERE TO BE FURNISHED BY ELECTRICAL)
	CEILING SUPPLY DIFFUSER
	CEILING RETURN REGISTER OR GRILLE
	CEILING EXHAUST REGISTER OR GRILLE
	DIFFUSER, REGISTER OR GRILLE THROW INDICATOR (SUPPLY, RETURN OR EXHAUST)
	SUPPLY REGISTER OR GRILLE
	RETURN OR EXHAUST REGISTER OR GRILLE
SO	SCREENED RETURN OR EXHAUST AIR OPENING
	SLOPING RISE OR DROP IN RECTANGULAR DUCTWORK
	SLOPING RISE OR DROP IN ROUND DUCTWORK
18x12	RECTANGULAR DUCT, SIZE BASED ON CLEAR INSIDE DIMENSIONS, FIRST FIGURE INDICATES PLAN SIZE
18Ø	ROUND DUCT, DIAMETER SIZE BASED ON CLEAR INSIDE DIMENSIONS
24x10Ø	FLAT OVAL DUCT, SIZE BASED ON CLEAR INSIDE DIMENSIONS, FIRST FIGURE INDICATES PLAN SIZE
18x12 AL	ACOUSTIC LINING IN DUCT (SIZE NOTED INDICATES INSIDE CLEAR DIMENSIONS)
BDD SGD	BACK DRAFT DAMPER/ SLIDE GATE DAMPER
	SUPPLY DUCT TURNING UP. (IN ORDER SHOWN. RECTANGULAR, FLAT OVAL & ROUND)
	SUPPLY DUCT TURNING DOWN. (IN ORDER SHOWN. RECTANGULAR, FLAT OVAL & ROUND)
	RETURN DUCT TURNING UP. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	RETURN DUCT TURNING DOWN. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	EXHAUST DUCT TURNING UP. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	EXHAUST DUCT TURNING DOWN. (IN ORDER SHOWN. RECTANGULAR & ROUND)
	DUCT ACCESS DOOR
P	DUCT PITOT. EP FOR PITOT OF EXHAUST DUCT. SP IS FOR SUPPLY DUCT.
DM	DISPLAY MONITOR AND ALARM
AV	AUDIO VISUAL ALARM
CAV	CAV BOX
VAV	VAV BOX

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
3. PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF GOVERNING STATE AND LOCAL CODES.
4. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL FRAMING, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS.
5. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATIONS OF PIPING OR DUCTWORK.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT DIFFUSER LOCATIONS AND FINISHED CEILING.
7. COORDINATE DUCTWORK, PIPING WITH STRUCTURAL DRAWINGS, LIGHTING AND SPRINKLER SYSTEM. PROVIDE TRANSITIONS AS REQUIRED.
8. COORDINATE LOCATIONS OF ACCESS DOORS WITH F.D.'S, V.D.'S, SD, ETC. THE OPENING SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND RESETTING OF THE DEVICE.
9. CONTRACTOR TO COORDINATE WITH ARCHITECTS CEILING ACCESS PANELS FOR ALL FIRE, SMOKE AND VOLUME DAMPERS IN INACCESSIBLE CEILING AS REQUIRED.
10. WHETHER OR NOT THEY ARE SHOWN ON DRAWINGS PROVIDE ALL CONCRETE PADS, SPECIAL SUPPORTS AND ANCHORING FOR ALL MECHANICAL EQUIPMENT REQUIRING SUCH. SEE ARCH OR STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.
11. ALL DUCT DIMENSIONS ARE AIRSTREAM DIMENSIONS.
12. ALL MECHANICAL RELATED PENETRATIONS THROUGH ROOF SHALL HAVE CURBS INSTALLED BY ROOFING CONTRACTOR TO ENSURE A PROPER WATERPROOF SEAL.
13. SEAL ALL FIRE RATED PENETRATIONS WITH UL LISTED THROUGH PENETRATION ASSEMBLY AS SPECIFIED. REFER TO ARCHITECTURAL.
14. THERMOSTAT AND HUMIDISTAT APPEARANCE AND LOCATION SHALL BE COORDINATED WITH ARCHITECTS/OWNER.
15. PROVIDE REMOTE OPERATORS FOR ALL VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILING.
16. PROVIDE OPERATING HANDLES FOR ALL VALVE AND COCKS WITHOUT INTEGRAL OPERATORS.
17. IN MECHANICAL OR EQUIPMENT ROOMS, INSTALL ALL VALVES ACCESSIBLE FROM FLOOR LEVEL WHERE POSSIBLE. PROVIDE GUIDED CHAIN OPERATIONS, UNLESS OTHERWISE NOTED, ON ALL VALVES IN MECHANICAL AND EQUIPMENT ROOMS INSTALLED OVER 7' ABOVE FLOOR.
18. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE SHOWN UNLESS OTHERWISE NOTED.
19. INSTALL SWING CHECK VALVES IN THE HORIZONTAL POSITION.
20. PROVIDE 3/8" BLOW-OFF VALVE AND 1/2" IPS TO HOSE THREAD ADAPTER ON ALL STRAINERS.
21. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL HOT WATER SUPPLY/RETURN TAKE-OFFS TO REHEAT COIL IN VAV BOXES SHALL BE 3/4" DIAMETER.
22. ALL DUCT HEATING COILS SHALL HAVE DUCT ACCESS PANEL.
23. PROVIDE UNIONS OR FLANGES ON EACH SIDE OF CONTROL VALVES AND PUMPS. EVERY PIPING ASSEMBLY SHALL BE MADE SO AS TO MAKE EVERY VALVE AND PIECE OF EQUIPMENT EASILY REMOVABLE. WELDED OR SOLDER-JOINT VALVES ARE EXCEPTED FROM THIS REQUIREMENT.
24. PROVIDE LOCAL INDICATOR LIGHTS FOR ALL SMOKE/FIRE DAMPERS. LIGHT IS ACTIVATED WHEN DAMPER IS IN CLOSED POSITION.
25. ALL DRAIN CONNECTIONS FROM MECHANICAL EQUIPMENT SHALL BE PIPED TO SPILL DIRECTLY INTO NEAREST FLOOR DRAIN.
26. PROVIDE 1" AIR GAP AT ALL DRAIN CONNECTIONS.
27. ALL PIPING AND DUCTWORK PASSING THROUGH SEPARATION JOINTS USED AS BUILDING SEISMIC SEPARATIONS SHALL HAVE FLEXIBLE CONNECTIONS TO COMPENSATE FOR SEISMIC MOVEMENT AS REQUIRED. PROVIDE HANGERS ON EACH SIDE OF FLEXIBLE CONNECTION.
28. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. AT THE CONTRACTOR'S OPTION HE MAY BRACE UNBRACED DUCTS, PIPES, CONDUITS, ETC. IN A MANNER CONFORMING TO REQUIREMENTS ESTABLISHED BY THE MECHANICAL AND ELECTRICAL CONTRACT DOCUMENTS, OR THE CONTRACTOR MAY INSTALL TRAPEZE SUPPORTS TO RECEIVE THE CEILING HANGING AND BRACING WIRES. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK AND RESPONSIBILITY FOR ACCOMMODATING SUCH WORK.
29. PROVIDE BALANCING DAMPERS AT EACH SUPPLY, RETURN, AND EXHAUST BRANCH TAKE-OFF.
30. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION.
31. ALL DUCT ELBOWS BEFORE VAV BOXES AND REHEAT COILS SHALL BE OF FULL RADIUS HARD CONNECTION ELBOWS.
32. ALL PIPING AND DUCTWORK TO BE FLEXIBLE CONNECTED TO PUMPS, COILS ETC.
33. SEE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR EQUIPMENT SUPPORTS AND ROOF OPENINGS.
34. ALL PIPING IN MECHANICAL ROOMS TO BE HUNG WITH SPRING ISOLATORS WITH 1/2" STATIC DEFLECTION AT SPECIFIED SPACING FOR HORIZONTAL PIPING, VERTICAL DROPS AND ALL ELBOWS.
35. PROVIDE ELBOW SUPPORTS AT ALL PIPE CONNECTIONS TO EQUIPMENT.
36. FOR EXACT CONCRETE PAD/CURB SIZES COORDINATE WITH APPROVED EQUIPMENT AND WITH STRUCTURAL DOCUMENTS.
37. SEE ARCHITECTURAL DOCUMENTS FOR PAINTING OF ALL EXPOSED DUCTWORK, PIPING, AIR OUTLET AND FIXTURE TRIM. ALL DUCTWORK AND PIPING ON MECHANICAL EQUIPMENT LEVEL (ROOF) IS TO BE PAINTED IN COMPLIANCE WITH DIVISION 15 AND DIVISION 9.
38. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE.
39. ALL DUCT SMOKE DETECTORS TO BE PROVIDED AND WIRED BY DIVISION 26, INSTALLED BY DIVISION 23. DETECTOR SAMPLING TUBES TO HAVE AN ACCESS DOOR MAKING SAMPLING TUBES READILY ACCESSIBLE.
40. UNLESS SPECIFICALLY SPECIFIED OR SHOWN OTHERWISE ALL CONSTRUCTION IS TO CONFORM TO SMACNA HVAC CONSTRUCTION STANDARDS AS A MINIMUM REQUIREMENT.
41. FIRE DAMPERS AND FIRE SMOKE DAMPERS ARE TO BE INSTALLED IN RATED PORTION OF THE ASSEMBLIES IN WHICH THEY OCCUR.
42. REFER TO ARCHITECTURAL SPECIFICATION FOR APPROVED FIRESTOPPING SYSTEM.
43. ALL PIPING NOTED TO BE CAPPED FOR FUTURE EXTENSION SHALL BE PROVIDED WITH VALVE NEAR CAP TO PERMIT FUTURE CONNECTION OF THE SYSTEM.
44. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE.
45. ALL PLENUM BOXES, DUCTWORK ETC TO BE LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE TESTED FOR AIRTIGHT CONSTRUCTION BEFORE INSTALLATION.
46. SUBMIT 1/4" SCALE SHOP DWGS, COORDINATED WITH OTHER TRADES FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
47. COORDINATE SYSTEM SHUTDOWN WITH FACILITY ENGINEER. PROVIDE A MINIMUM OF 72 HOUR NOTICE.
48. ALL PIPING TO BE LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE LEAK TESTED AND INSULATED WITH VAPOR BARRIER SEAL BEFORE INSTALLATION.

GENERAL CONDITIONS

1. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
2. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED OPERATING EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3. SCHEDULE ALL WORK ACCESS AND STORAGE WITH THE FACILITY ADMINISTRATOR.
4. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA AND KEEP DIRT AND DUST TO A MINIMUM.
5. ALL REMOVED ITEMS DEEMED TO HAVE VALUE BY THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AT THE SITE AS DIRECTED. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A LEGAL MANNER.
6. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY AND PERFORMANCE.
7. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
8. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
9. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

ABBREVIATIONS

ABV	ABOVE	IN	INCHES
ACU	AIR CONDITIONING UNIT	INV	INVERT ELEVATION
ACC	AIR COOLED CHILLER	KW	KILOWATT
AD	ACCESS DOOR	KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMP.
AFMS	AIR FLOW MEASURING STATION	LBS	POUNDS
AHU	AIR HANDLING UNIT	LD	LINEAR DIFFUSER
AL	ACOUSTICAL LINING	LPR	LOW PRESSURE STEAM RETURN
ALT	ALTITUDE	LPS	LOW PRESSURE STEAM SUPPLY
ALD	AUTOMATIC LOUVER DAMPER	LVR	LOUVER
APPROX	APPROXIMATE	LWT	LEAVING WATER TEMP.
ARCH	ARCHITECTURAL	M	MAIN AIR
AS	AIR SEPARATOR	(M)	MAGNETIC GAUGE
AVG	AVERAGE	MA	MAKE UP AIR
B	BOILER	MAT	MIXED AIR TEMPERATURE
BD	BLOWDOWN	MAX	MAXIMUM
BDD	BACK DRAFT DAMPER	MBD	MANUAL BALANCING DAMPER
BF	BELOW FLOOR	MBH	THOUSAND BTU/HOUR
BFW	BOILER FEEDWATER	MCC	MOTOR CONTROL CENTER
BG	BELOW GRADE	MFG	MANUFACTURER
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BO	BLANK OFF	MMS	MANUAL MOTOR START
BOD	BOTTOM OF DUCT	(N)	NEW
BOP	BOTTOM OF PIPE	N/A	NOT APPLICABLE
BOR	BOTTOM OF RACK	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BTUH	BTU PER HOUR	NK	NECK
C	COMMON	NO	NORMALLY OPEN OR NUMBER
CA	COMPRESSED AIR	NTS	NOT TO SCALE
CAV	CONSTANT VOLUME	OA	OUTSIDE AIR
CC	COOLING COIL	OBD	OPPOSED BLADE DAMPER
CD	CEILING DIFFUSER	OD	OUTSIDE DIMENSION
CE	CEILING EXHAUST	ORD	OVERFLOW ROOF DRAIN
CFF	CAP FOR FUTURE	ΔP	PRESSURE DROP OR DIFFERENTIAL
CFH	CUBIC FEET PER HOUR	P	PUMP
CFM	CUBIC FEET PER MINUTE	PC	PUMPED CONDENSATE
CG	CEILING GRILLE	PG	PIPE GUIDE
CHS	CHILLED WATER	PH	PHASE (ELECTRICAL)
CHR	CHILLED WATER RETURN	PHC	PREHEAT COIL
CL	CENTERLINE	POC	POINT OF CONNECTION
CMPR	COMPRESSOR	PRESS	PRESSURE
CO	CLEAN OUT (DOOR)	PSI	POUNDS/SQUARE INCH
COEFF	COEFFICIENT	PSIG	POUNDS PER SQUARE INCH GAUGE
COND	CONDENSATE	R	RISE
CONN	CONNECTION, CONNECT	RA	RETURN AIR
CONT	CONTINUATION	RAD	RETURN AIR DUCT
COP	COEFF. OF PERFORMANCE	RCVR	RECEIVER
COTG	CLEAN OUT TO GRADE	RF	RETURN FAN
CP	CONDENSATE PUMP	RH	RELATIVE HUMIDITY
CR	CEILING REGISTER	RHC	REHEAT COIL
CV	COEFF., VALVE FLOW	RPM	REVOLUTIONS/MINUTE
CWS	COND. WATER SUPPLY	SA	SUPPLY AIR
CWR	COND. WATER RETURN	SAD	SUPPLY AIR DUCT
CT	COOLING TOWER	SEC	SECOND
D	DROP OR INDIRECT DRAIN	SF	SUPPLY FAN
DB	DRY BULB	SP	STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROL	SPEC	SPECIFICATION
DEG. F	DEGREES FAHRENHEIT	SQ	SQUARE
DENS	DENSITY	SS	STAINLESS STEEL
DIA	DIAMETER	STD	STANDARD
DN	DOWN	STM	STEAM
DRN	DRAIN	SYM	SYMBOL
DWG	DRAWING	SYS	SYSTEM
(E)	EXISTING	ΔT	TEMPERATURE DIFF.
EA	EXHAUST AIR	TEMP	TEMPERATURE
EAD	EXHAUST AIR DUCT OR DAMPER	TOP	TOP OF PIPE
EAT	ENTERING AIR TEMP.	TOR	TOP OF RACK
EDB	ENTERING DRY BULB TEMP.	TOT	TOTAL
EF	EXHAUST FAN	TT	TEMP. TRANSMITTER
EFF	EFFICIENCY	TYP	TYPICAL
ET	EXPANSION TANK	U.C.	UNDERCUT
EWB	ENTERING WET BULB	UON	UNLESS OTHERWISE NOTED
EWT	ENTERING WATER TEMP.	V	VOLT
EXH	EXHAUST	VA	VALVE
EXP	EXPANSION	VAV	VARIABLE AIR VOLUME
°F	DEGREES FAHRENHEIT	VERT	VERTICAL
F	FILTER	VFD	VARIABLE FREQ. DRIVE
(F)	FUTURE	VOL	VOLUME
FC	FLEXIBLE CONNECTION	W	WATTS
FCU	FAN COIL UNIT	WB	WET BULB
FD	FIRE DAMPER OR FLOOR DRAIN	W/O	WITHOUT
FLA	FULL LOAD AMPS	WT	WEIGHT
FLR	FLOOR	WTR	WATER
FPI	FINS PER INCH	WSR	WALL SUPPLY REGISTER
FPM	FEET PER MINUTE	WRR	WALL RETURN REGISTER
FPS	FEET PER SECOND		
FS	FLOOR SINK		
FT	FEET		
FV	FACE VELOCITY		
GA	GAGE OR GAUGE		
GPM	GALLONS PER MINUTE		
GPH	GALLONS PER HOUR		
GSM	GALVANIZED SHEET METAL		
HC	HEATING COIL		
HD	HEAD		
HGT	HEIGHT		
HOA	HAND, OFF, AUTO		
HP	HORSE POWER		
HR	HOUR(S)		
HT	HUMIDITY TRANSMITTER		
HTP	HEAT PUMP		
HVAC	HEATING, VENTILATING AND AIR CONDITIONING		
HWR	HEATING WATER RETURN		
HWS	HEATING WATER SUPPLY		
HX	HEAT EXCHANGER		
IAC	INSTRUMENT AIR COMPRESSOR		
IAS	INSTRUMENT AIR SUPPLY		
ID	INSIDE DIMENSION		

MECHANICAL BASIS OF DESIGN

A. BRIEF PROJECT DESCRIPTION

THIS PROJECT WILL REMODEL APPROXIMATELY 1,750 SF OF PROCEDURE ROOM AND ANCILLARY SPACE ON LEVEL 2 OF THE MHS GOOD SAMARITAN HOSPITAL TO SUPPORT THE INSTALLATION OF A NEW BI-PLANE HYBRID OPERATING ROOM. THE WORK INCLUDES UPGRADING THE OR PROCEDURE ROOM, CONTROL ROOM, RELOCATION OF MISCELLANEOUS AND STERILIZATION EQUIPMENT, STORAGE ROOM ADDITION, AND AIR SUPPLY SYSTEM REBALANCING. THE WORK INCLUDES REPLACING THE EXISTING OR AIR HANDLING UNIT , HUMIDIFICATION SOURCE, AND SUPPLEMENTAL CHILLER. AND ADDITIONAL MINOR MECHANICAL AND ELECTRICAL REVISIONS TO THE EXISTING SPACE TO ACCOMMODATE THE REVISED ROOM FLOOR PLANS, CHANGE OF ROOM FUNCTIONALITY, AND HVAC SYSTEMS.

B. CODES AND STANDARDS

1. 2018 INTERNATIONAL BUILDING CODE
2. 2018 INTERNATIONAL MECHANICAL CODE
3. 2018 INTERNATIONAL PLUMBING CODE
4. 2018 INTERNATIONAL FIRE CODE
5. 2018 WASHINGTON STATE ENERGY CODE
6. 2020 NATIONAL ELECTRICAL CODE
7. 2019 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE
8. 2018 NFPA 99 – STANDARD FOR HEALTH CARE FACILITIES
9. 2018 FGI - GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES
10. LOCAL AMENDMENTS TO THE 2018 INTERNATIONAL CODES
11. AAMI STANDARDS
12. ASHRAE 2017 HANDBOOK: FUNDAMENTALS
13. ASHRAE 2018 HANDBOOK: REFRIGERATION
14. ASHRAE 2019 HANDBOOK: HVAC APPLICATIONS
15. ASHREA 2020 HANDBOOK: HVAC SYSTEMS AND EQUIPMENT
16. PHILIPS AZURION 7 B20/12, 20/15 – PIVOT STANDARD REFERENCE DRAWINGS 12/16/2017

C. OUTDOOR DESIGN CONDITIONS

1. LOCATION: PUYALLUP, WA
2. SUMMER: 84 DEG F DB, 65 DEG F WB
3. WINTER: 19 DEG F
4. ELEVATION: 120 FT ABOVE SEA LEVEL
5. CLIMATE ZONE: 4C (PIERCE COUNTY)

D. INDOOR DESIGN TEMPERATURES, AIR CHANGE RATES, AND VENTILATION CRITERIA

BASIS OF DESIGN

INDOOR DESIGN TEMPERATURES, AIR CHANGE RATES, AND VENTILATION CRITERIA

FUNCTION OF SPACE	PRESSURE RELATIONSHIP TO ADJACENT AREAS	MINIMUM OUTDOOR ACH	MINIMUM TOTAL ACH	ALL ROOM AIR EXHAUSTED DIRECTLY TO THE OUTDOORS	AIR RECIRCULATED BY MEANS OF ROOM UNITS	DESIGN RELATIVE HUMIDITY (%)	DESIGN TEMPERATURE (°F)	NOTES
OPERATING ROOM	POSITIVE	4	20	NR	NO	20-60	65-74	[1]
CONTROL ROOM	NR	NR	NR	NR	NR	20-80	72 +/- 5	[1,2]
EQUIPMENT ROOM	NR	NR	NR	NR	NR	20-80	72 +/- 5	[1,2]
SUB STERILE	NR	2	6	NR	NO	NR	75 CLG/ 72 HTG	[1,4]
STORAGE ROOM	NR	0.12 CFM/SF	NR	NR	NR	NR	75 CLG/ 72 HTG	[3,4]

NOTES:
1. PARAMETERS PER 2018 FGI TABLE 7.1, "DESIGN PARAMETERS", CH. 6 "GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES" U.O.N.
2. RELATIVE HUMIDITY AND DESIGN TEMPERATURE PER MANUFACTURERS DRAWING "AZURION 7 B2012, B2015 PIVOT AN", 12.16.2017
3. ROOM PARAMETERS PER TABLE 403.3.1.1 "REQUIRED OUTDOOR VENTILATION AIR" 2018 WSMC
4. DESIGN TEMPERATURES PER 2018 WSEC

E. BUILDING ENVELOPE (EXISTING BUILDING, ENVELOPE NOT WITHIN SCOPE)

1. GLAZING GLASS FRAME COMBINATION
   - A. CURTAIN WALL AND PUNCHED WINDOWS
     1. U=0.85
     2. SHADING COEFFICIENT=0.46
2. WALL CONSTRUCTION
   - A. 90.1 2007 MINIMUM WALL NON-RES ZONE 4-8
     1. U=0.0476
3. ROOF CONSTRUCTION
   - A. 4" LW CONCRETE
     1. U=0.21
4. ENVELOPE INFILTRATION/ AIR LEAKAGE
5. PRESSURIZED, AVERAGE CONSTRUCTION
   - A. 0.3 CFM/SQ FT OF WALL

F. INTERNAL HEAT GAINS

1. LIGHTING (ALL SPACES)
   - A. LED LIGHTING, 100% HEAT GAIN TO SPACE
     1. 0.85 W/SF
2. OCCUPANCY CRITERIA
   - A. OPERATING / EXAM ROOM: 8 PERSONS
   - B. CONTROL ROOM: 2 PERSONS
   - C. SUB-STERILE: 1 PERSON
   - D. EQUIPMENT ROOM; UNOCCUPIED
   - E. ~~STORAGE: UNOCCUPIED~~
3. EQUIPMENT HEAT GAINS
   - A. OPERATING / EXAM ROOM
     1. 6,479 BTUH (PHILIPS AVERAGE)
     2. 1,447 BTUH - MEDICAL EQUIP.
   - B. CONTROL ROOM
     1. 1,945 BTUH (PHILIPS AVERAGE)
   - C. EQUIPMENT ROOM
     1. 13,640 BTUH (PHILIPS AVERAGE)
     2. 2,655 BTUH UPS - MAX BATTERY
     3. 2,500 BTUH STRYKER SPI3
   - D. SUB STERILE
     1. 2,185 BTUH
4. ~~ZONING CRITERIA: SEE PLANS~~

5

G. ACOUSTICAL

1. THE FOLLOWING NOISE NC/DBA CRITERIA LEVELS WILL BE ACHIEVED AS DEFINED IN THE 2018 FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS. THESE LEVELS ADDRESS THE MECHANICAL SYSTEMS ONLY. ACTUAL SOUND PERFORMANCE REQUIREMENTS FOR EACH SPACE MUST BE VERIFIED WITH ACOUSTICAL CONSULTANT.
   - A. OPERATING / EXAM ROOM: 50/55
   - B. CONTROL ROOM: 45/50
   - C. SUB STERILE: 45/50

H. SESMIC

1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

MECHANICAL DRAWING INDEX

PRCTI20221788 REVISED SHEET

CLARK KJOS ARCHITECTS, LLC

MAZZETTI

Good Samaritan

HYBRID OR #1
MULTICARE GOOD SAMARITAN HOSPITAL
401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023
REVISIONS
5 03/15/2024 ASI 005

73-19057-00

MECHANICAL SYMBOLS AND ABBREVIATIONS

PRCTI20221788 REVISED SHEET

PROJECT INFORMATION

Location	**PAYULLAP, WA**	
Building owner		
Program user		
Company		
Comments		
By	**Mazzetti & Associates**	
Dataset name	**C:\Users\Scook\OneDrive - Mazzetti, Inc\Desktop\Trace 700 Working Calcs\011-206002_MHS GSH Hybrid OR\240304GSHHYBOR.TRC**	
Calculation time	**03:43 PM on 03/04/2024**	
TRACE® 700 version	**6.3.5**	
Location	**Tacoma, Washington**	
Latitude	**47.0**	**deg**
Longitude	**122.0**	**deg**
Time Zone	**8**	
Elevation	**350**	**ft**
Barometric pressure	**29.5**	**in. Hg**
Air density	**0.0750**	**lb/cu ft**
Air specific heat	**0.2444**	**Btu/lb·°F**
Density-specific heat product	**1.1003**	**Btu/h·cfm·°F**
Latent heat factor	**4,843.6**	**Btu·min/h·cu ft**
Enthalpy factor	**4.5015**	**lb·min/hr·cu ft**
Summer design dry bulb	**85.9**	**°F**
Summer design wet bulb	**65.1**	**°F**
Winter design dry bulb	**19.8**	**°F**
Summer clearness number	**1.05**	
Winter clearness number	**0.95**	
Summer ground reflectance	**0.20**	
Winter ground reflectance	**0.20**	
Carbon Dioxide Level	**400**	**ppm**
Design simulation period	**January - December**	
Cooling load methodology	**RTS (Heat Balance)**	
Heating load methodology	**UATD**	

TRANE

TRACE 700
comprehensive building analysis software from Trane

Room Checksums

By Mazzetti & Associates

CONTROL ROOM

	COOLING COIL PEAK				CLG SPACE PEAK	
	Peaked at Time: Mo/Hr: 7 / 9 Outside Air: OADB/WB/HR: 71 / 54 / 37				Mo/Hr: 7 / 9 OADB: 71	
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	86	86	1	0	0
Glass Solar	4,132	0	4,132	54	4,132	57
Glass/Door Cond	-124	0	-124	-2	-124	-2
Wall Cond	0	29	29	0	0	0
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	-142		-142	-2	-18	0
Sub Total ==>	3,866	115	3,981	52	3,990	55
Internal Loads						
Lights	334	0	334	4	334	5
People	1,000	0	1,000	13	500	7
Misc	2,400	0	2,400	31	2,400	33
Sub Total ==>	3,734	0	3,734	49	3,234	44
Ceiling Load	46	-46	0	0	46	1
Ventilation Load	0	0	0	0	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-24	-24	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	7,646	44	7,690	100.00	7,270	100.00

	HEATING COIL PEAK		
	Mo/Hr: Heating Design OADB: 20		
	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-278	5.36
Glass Solar	0	0	0.00
Glass/Door Cond	-1,954	-1,954	37.72
Wall Cond	0	-38	0.73
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-991	-991	19.13
Sub Total ==>	-2,945	-3,260	62.93
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-55	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		29	-0.55
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		-1,988	38.38
System Plenum Heat		39	-0.75
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-2,999	-5,181	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	95.4
Ra Plenum	73.3	70.5
Return	73.3	70.5
Ret/OA	73.3	70.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	389	117
Terminal	389	117
Main Fan	389	117
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	17	17
MinStop/Rh	117	117
Return	406	134
Exhaust	17	17
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	3.38	1.01
cfm/ton	606.46	
ft²/ton	179.45	
Btu/hr·ft²	66.87	-45.05
No. People	2.0	17.4/1000 ft²

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.6	7.7	7.3	389	73.3	57.7	47.4	55.0	50.3	47.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.6	7.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	115		
Part	0		
Int Door	1		
ExFlr	0		
Roof	115	0	0
Wall	58	46	80
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.2	117	55.0	95.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Reheat	-2.2	117	55.0	72.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-5.2			

Project Name:
Dataset Name: 240304GSHHYBOR.TRC

TRACE® 700 v6.3.5 calculated at 03:43 PM on 03/04/2024
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Room Checksums

By Mazzetti & Associates

EQUIPMENT ROOM

	COOLING COIL PEAK				CLG SPACE PEAK	
	Peaked at Time: Mo/Hr: 7 / 15 Outside Air: OADB/WB/HR: 86 / 65 / 61				Mo/Hr: 7 / 14 OADB: 85	
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	194	194	1	0	0
Glass Solar	0	0	0	0	0	0
Glass/Door Cond	0	0	0	0	0	0
Wall Cond	68	25	94	0	81	0
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	428		428	2	255	1
Sub Total ==>	496	219	716	4	336	2
Internal Loads						
Lights	220	0	220	1	220	1
People	0	0	0	0	0	0
Misc	18,795	0	18,795	95	18,795	97
Sub Total ==>	19,015	0	19,015	97	19,015	98
Ceiling Load	41	-41	0	0	41	0
Ventilation Load	0	0	0	0	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-33	-33	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	19,553	146	19,699	100.00	19,393	100.00

	HEATING COIL PEAK		
	Mo/Hr: Heating Design OADB: 20		
	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-183	2.62
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	-140	-195	2.79
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-1,005	-1,005	14.35
Sub Total ==>	-1,145	-1,383	19.76
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-36	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		29	-0.41
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		-5,303	75.77
System Plenum Heat		-342	4.88
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-1,181	-6,999	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	75.5
Ra Plenum	73.7	70.5
Return	73.7	70.5
Ret/OA	73.7	70.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	1,037	311
Terminal	1,037	311
Main Fan	1,037	311
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	17	17
MinStop/Rh	311	311
Return	1,054	329
Exhaust	17	17
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	13.64	4.09
cfm/ton	631.56	
ft²/ton	46.30	
Btu/hr·ft²	259.19	-92.09
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.6	19.7	19.5	1,037	73.7	57.9	47.4	55.0	50.3	47.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.6	19.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	76		
Part	0		
Int Door	1		
ExFlr	0		
Roof	76	0	0
Wall	58	0	0
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.0	311	55.0	75.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Reheat	-5.8	311	55.0	72.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-7.0			

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Room Checksums

By Mazzetti & Associates

HYBRID OR #1

	COOLING COIL PEAK				CLG SPACE PEAK	
	Peaked at Time: Mo/Hr: 7 / 10 Outside Air: OADB/WB/HR: 74 / 57 / 41				Mo/Hr: 7 / 10 OADB: 74	
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	1,133	1,133	3	0	0
Glass Solar	16,891	0	16,891	49	16,891	52
Glass/Door Cond	1,276	0	1,276	4	1,276	4
Wall Cond	208	192	401	1	208	1
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	971		971	3	1,532	5
Sub Total ==>	19,345	1,326	20,671	59	19,906	61
Internal Loads						
Lights	2,127	0	2,127	6	2,127	7
People	3,600	0	3,600	10	2,000	6
Misc	8,500	0	8,500	24	8,500	26
Sub Total ==>	14,227	0	14,227	41	12,627	39
Ceiling Load	103	-103	0	0	103	0
Ventilation Load	0	0	0	0	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-73	-73	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	33,676	1,150	34,825	100.00	32,637	100.00

	HEATING COIL PEAK		
	Mo/Hr: Heating Design OADB: 20		
	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-1,539	8.89
Glass Solar	0	0	0.00
Glass/Door Cond	-7,650	-7,650	44.21
Wall Cond	-446	-852	4.92
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-7,535	-7,535	43.55
Sub Total ==>	-15,631	-17,576	101.58
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-385	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		273	-1.58
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-16,016	-17,303	100.00

TEMPERATURES	Cooling	Heating
SADB	52.5	85.4
Ra Plenum	65.4	63.4
Return	65.4	63.4
Ret/OA	65.4	63.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	2,380	714
Terminal	2,380	714
Main Fan	2,380	714
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	152	152
MinStop/Rh	714	714
Return	2,531	865
Exhaust	152	152
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	3.21	0.96
cfm/ton	820.04	
ft²/ton	255.68	
Btu/hr·ft²	46.93	-23.32
No. People	8.0	10.8/1000 ft²

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	2.9	34.8	33.8	2,380	65.4	54.5	46.6	52.5	48.8	45.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.9	34.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	742		
Part	0		
Int Door	1		
ExFlr	0		
Roof	742	0	0
Wall	505	208	41
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-17.3	714	63.4	85.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-17.3			

Project Name:
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Room Checksums

By Mazzetti & Associates

STORAGE

	COOLING COIL PEAK				CLG SPACE PEAK	
	Peaked at Time: Mo/Hr: 7 / 14 Outside Air: OADB/WB/HR: 85 / 65 / 59				Mo/Hr: 7 / 14 OADB: 85	
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	408	408	47	0	0
Glass Solar	0	0	0	0	0	0
Glass/Door Cond	0	0	0	0	0	0
Wall Cond	0	0	0	0	0	0
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	0		0	0	0	0
Sub Total ==>	0	408	408	47	0	0
Internal Loads						
Lights	453	0	453	53	453	117
People	0	0	0	0	0	0
Misc	0	0	0	0	0	0
Sub Total ==>	453	0	453	53	453	117
Ceiling Load	-65	65	0	0	-65	-17
Ventilation Load	0	0	0	0	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		0	0	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	388	472	861	100.00	388	100.00

	HEATING COIL PEAK		
	Mo/Hr: Heating Design OADB: 20		
	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-381	218.76
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	0	0	0.00
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	0	0	0.00
Sub Total ==>	0	-381	218.76
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-75	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		-90	51.79
System Plenum Heat		297	-170.55
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-75	-174	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	84.9
Ra Plenum	73.7	70.5
Return	73.7	70.5
Ret/OA	73.7	70.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	18	5
Terminal	18	5
Main Fan	18	5
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	5	5
Return	18	5
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.11	0.03
cfm/ton	246.02	
ft²/ton	2,202.50	
Btu/hr·ft²	5.45	-1.10
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.1	0.9	0.9	18	73.7	57.9	47.4	55.0	37.8	6.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.1	0.9								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	158		
Part	0		
Int Door	1		
ExFlr	0		
Roof	158	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-0.2	5	55.0	84.9
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Reheat	-0.1	5	55.0	72.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.2			

Project Name:
Dataset Name: 240304GSHHYBOR.TRC

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Room Checksums

By Mazzetti & Associates

SUB STERILE

	COOLING COIL PEAK				CLG SPACE PEAK	
	Peaked at Time: Mo/Hr: 7 / 9 Outside Air: OADB/WB/HR: 71 / 54 / 37				Mo/Hr: 7 / 9 OADB: 71	
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	69	69	1	0	0
Glass Solar	4,190	0	4,190	60	4,190	62
Glass/Door Cond	-126	0	-126	-2	-126	-2
Wall Cond	0	29	29	0	0	0
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	-144		-144	-2	-18	0
Sub Total ==>	3,921	98	4,018	58	4,046	60
Internal Loads						
Lights	264	0	264	4	264	4
People	500	0	500	7	250	4
Misc	2,185	0	2,185	31	2,185	32
Sub Total ==>	2,949	0	2,949	42	2,699	40
Ceiling Load	37	-37	0	0	37	1
Ventilation Load	0	0	0	0	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-25	-25	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	6,906	37	6,943	100.00	6,782	100.00

	HEATING COIL PEAK		
	Mo/Hr: Heating Design OADB: 20		
	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-220	4.34
Glass Solar	0	0	0.00
Glass/Door Cond	-1,981	-1,981	39.12
Wall Cond	0	-38	0.75
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-1,005	-1,005	19.84
Sub Total ==>	-2,986	-3,243	64.06
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-43	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		29	-0.57
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		-1,855	36.63
System Plenum Heat		6	-0.11
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-3,029	-5,064	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	97.3
Ra Plenum	73.3	70.5
Return	73.3	70.5
Ret/OA	73.3	70.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	363	109
Terminal	363	109
Main Fan	363	109
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	17	17
MinStop/Rh	109	109
Return	380	126
Exhaust	17	17
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	3.98	1.20
cfm/ton	626.63	
ft²/ton	157.29	
Btu/hr·ft²	76.29	-55.64
No. People	1.0	11.0/1000 ft²

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.6	6.9	6.8	363	73.3	57.7	47.4	55.0	50.3	47.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.6	6.9								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	91		
Part	0		
Int Door	1		
ExFlr	0		
Roof	91	0	0
Wall	58	47	80
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.1	109	55.0	97.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Reheat	-2.0	109	55.0	72.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-5.1			

Project Name:
Dataset Name: 240304GSHHYBOR.TRC

TRACE® 700 v6.3.5 calculated at 03:43 PM on 03/04/2024
Alternative - 1 System Checksums Report Page 5 of 5

5

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ARCHITECTS, LLC

MARK W. STAVIG
24672

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

MAZZETTI
2013 4TH AVENUE,
SUITE 200
SEATTLE, WA 98121
98121 | USA
(T) 425 672 10
www.mazzetti.com
Project Number: 206002

Good Samaritan
A part of MultiCare Health System

HYBRID OR #1
MULTICARE GOOD SAMARITAN HOSPITAL
401 15TH AVE SE, PUYALLUP, WA 98372

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CONSTRUCTION
DOCUMENTS
04/07/2023
REVISIONS
5 03/15/2024 ASI 005

73-19057-00

MECHANICAL
LOAD
CALCULATIONS

M0.07

Autodesk Docs://206-002 - Multicare GSH Hybrid OR/MultiCare Good Sam Hybrid OR-MEADOWS_MAZ.rvt
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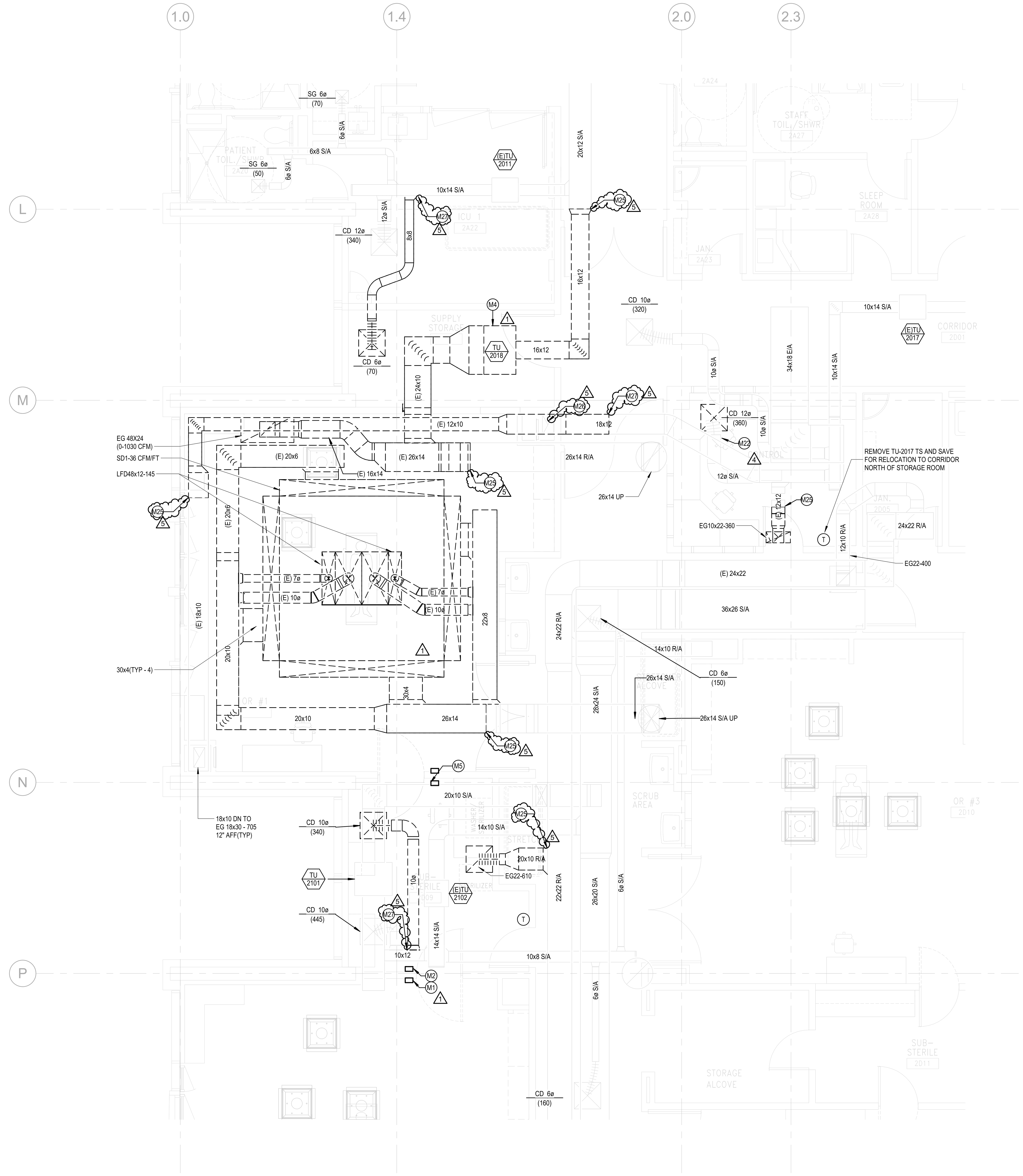
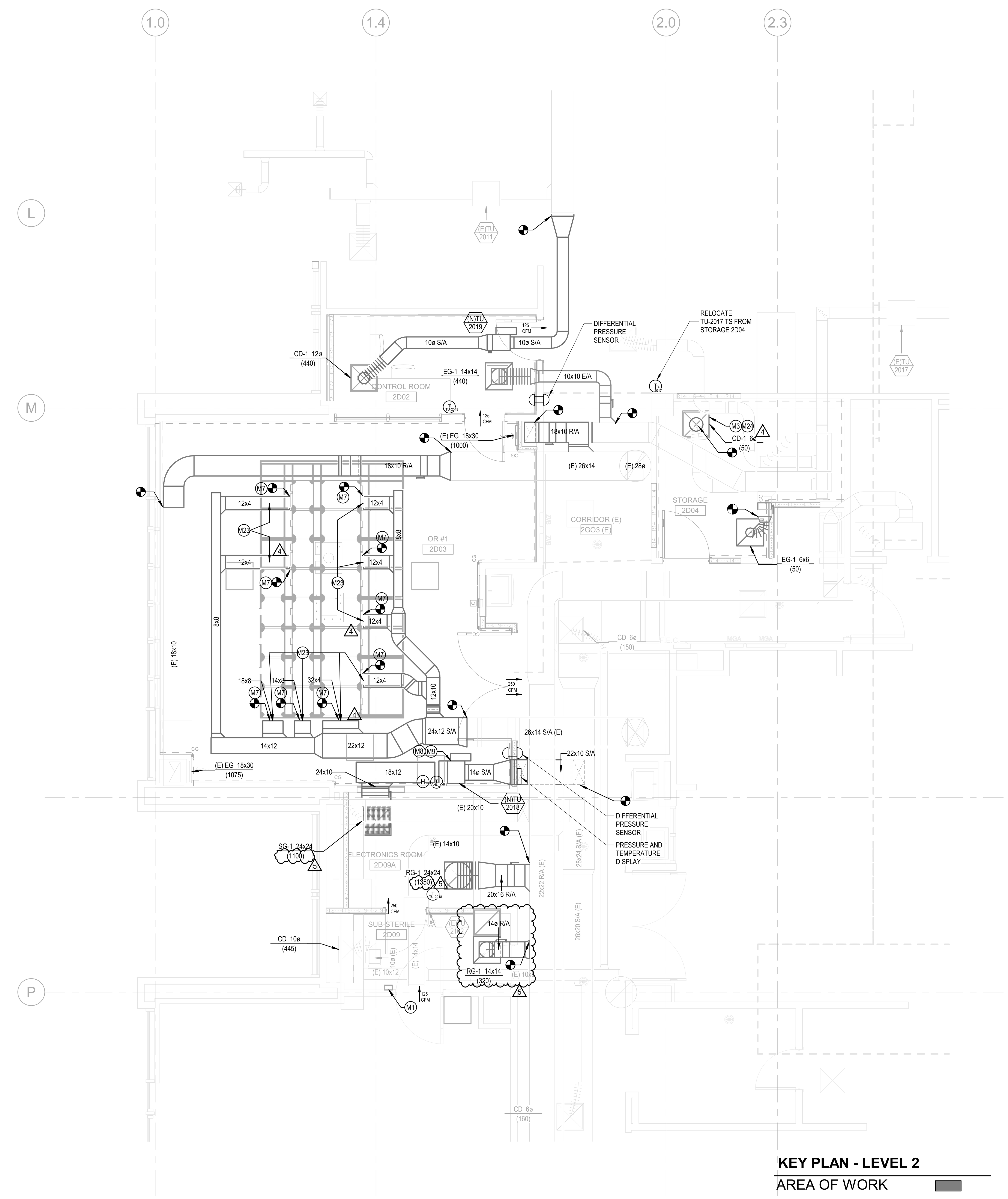


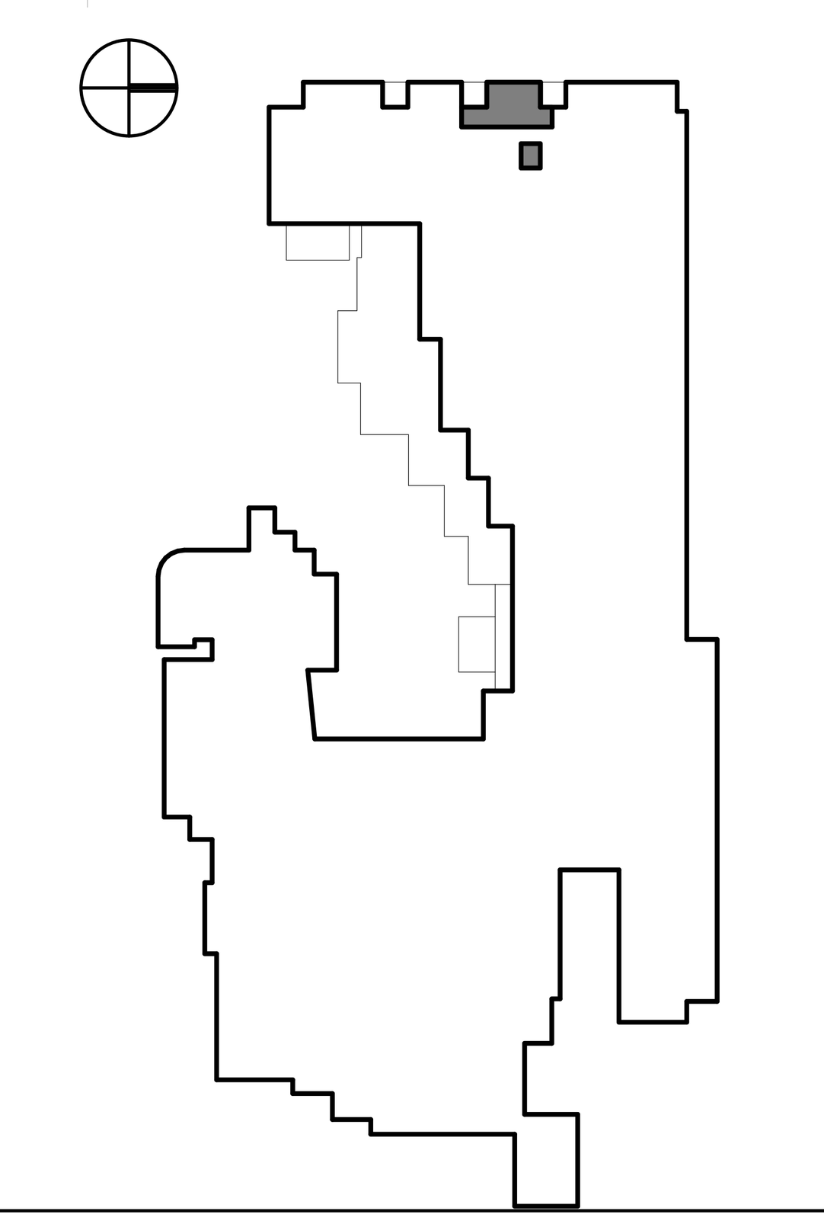
1 M2.01 SECOND FLOOR PLAN - MECHANICAL DEMO
1/4" = 1'-0"



2 M2.01 SECOND FLOOR PLAN - MECHANICAL
1/4" = 1'-0"

KEY PLAN - LEVEL 2

AREA OF WORK



SHEET NOTES

A. ALL DIFFUSERS AND GRILLES DEMOLISHED FROM SCOPE OF WORK TO BE CLEANED AND DELIVERED TO OWNER.

KEYNOTES

- M1 EXISTING OPERATING ROOM HUMIDIFIER CONTROL PANEL.
- M2 EXISTING OPERATING ROOM DDC HVAC CONTROL PANEL, HUMIDIFIER HUMIDITY SENSOR ADJACENT TO PANEL.
- M3 INSTALL NEW DIFFUSER AND BALANCE TO TAGGED AIRFLOW.
- M4 SALVAGE TO OWNER TERMINAL UNIT. 1
- M5 EXISTING OR#1 HUMIDIFIER CONTROL PANEL.
- M7 CONNECT DUCT TO OWNER FURNISHED CEILING SYSTEM. BALANCE DIFFUSER ARRAY TO MEET REQUIREMENTS PER ASHRAE 170 SCHEDULE. 1
- M8 PROVIDE TERMINAL UNIT WITH ELECTRICAL AND CONTROLS CONNECTIONS ON BOTTOM.
- M9 PROVIDE 2'X2' ACCESS PANEL. COORDINATE WITH ARCHITECT.
- M22 EXISTING DAMPER TO REMAIN.
- M23 PROVIDE MANUAL VOLUME DAMPERS AT EACH INLET CONNECTION OF PRICE ULTRASUITE. TO AVOID ADDITIONAL ACCESS PANEL INSTALLATIONS LOCATE INLET DAMPER OPERATOR ACCESSIBLE FROM PRICE ULTRASUITE ACCESS PANELS WHERE POSSIBLE.
- M24 BALANCE AIRFLOW WITH EXISTING DAMPER 4
- M25 DEMO WITH INTENT TO CONNECT NEW DUCT.
- M26 EXISTING RISER TO REMAIN TO CONNECT TO NEW DUCT.
- M27 CAP AND SEAL AIRTIGHT. 5

INTEGRATED CEILING BED ANGLE DIFFUSER COVERAGE			
CLOCKWISE		COUNTER CLOCKWISE	
ANGLE	TABLE COVERAGE	ANGLE	TABLE COVERAGE
0	76%	0	76%
+10	76%	-10	78%
+20	72%	-20	70%
+30	72%	-20.25	70%
+35	72%	-20.5	**69%**
+39.5	70%		
+39.75	**69%**		
** INDICATES NON-COMPLIANT COVERAGE**			

PRCTI20221788 REVISED SHEET

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Good Samaritan

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401 15TH AVE SE, PUYALLUP, WA 98372

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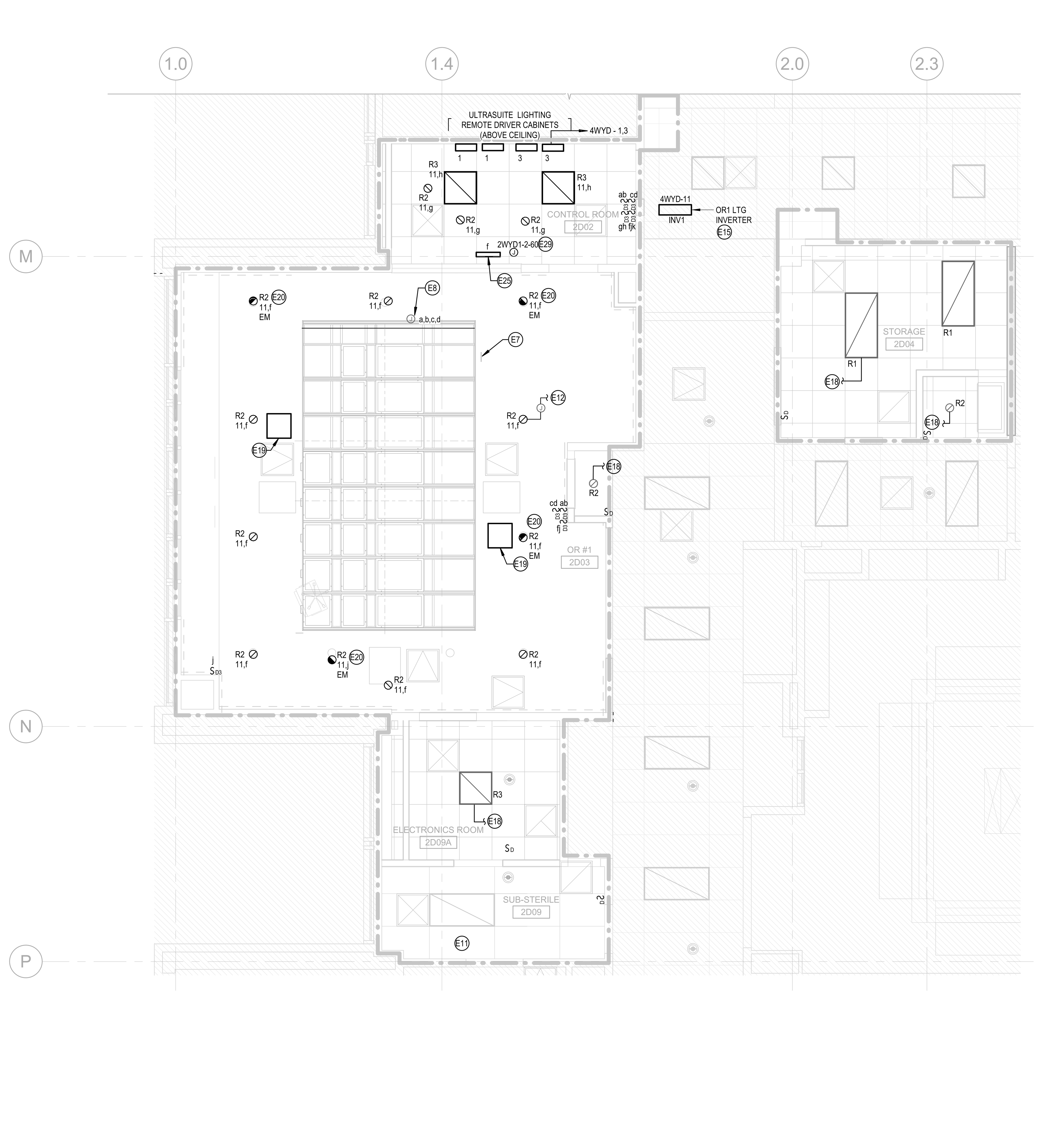
REVISIONS

1 04/07/2023 ASI 002
4 10/30/2023 RFI-009
5 03/15/2024 ASI 005

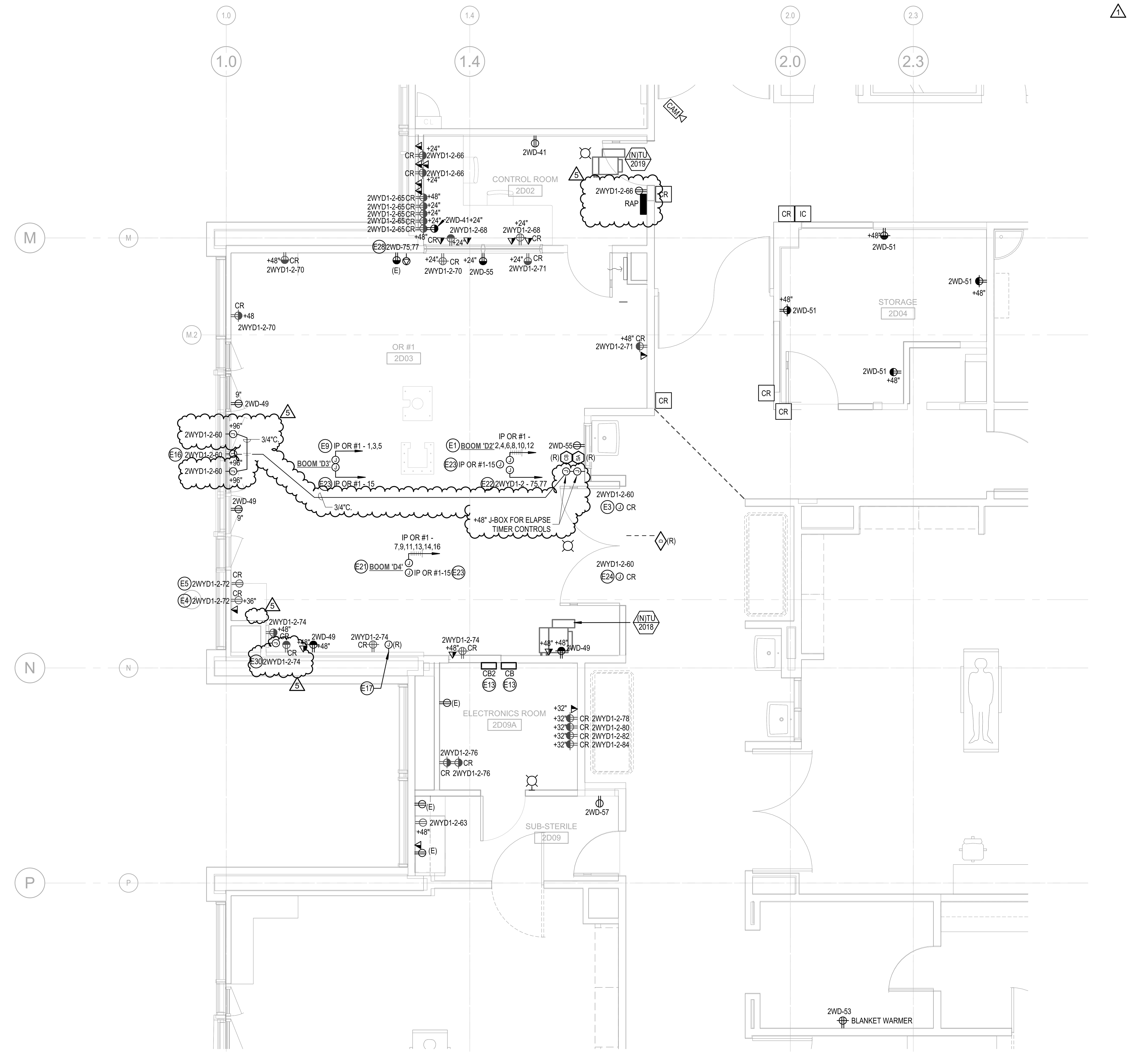
73-19057-00

MECHANICAL ENLARGED PLANS

M2.01



1 / E2.01 SECOND FLOOR - LIGHTING
1/4" = 1'-0"



2 / E2.01 SECOND FLOOR PLAN - ELECTRICAL
1/4" = 1'-0"

LIGHTING SHEET NOTES

A. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK AREAS.

B. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND ORIENTATION OF LUMINAIRES AND DEVICES, CEILING TYPES AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.

C. ALL LUMINAIRES AND DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED.

D. REFER TO LUMINAIRE SCHEDULE FOR MORE INFORMATION.

E. WHERE POSSIBLE INSTALL ADJACENT SWITCHES UNDER ONE COMMON FACEPLATE.

F. ALL NEW CONDUIT SHALL BE CONCEALED IN WALLS AND CEILING OR BELOW FLOORS, UNLESS OTHERWISE NOTED.

G. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.

H. MINIMUM 0-10V CONTROL WIRE SIZE SHALL BE #16 AWG FOR RUNS LONGER THAN 400'. FOR RUNS SHORTER THAN 400', PROVIDE #18 AWG WIRE. PROVIDE 0-10V WIRING TO ALL DIMMABLE 0-10V LIGHTING FIXTURES.

I. PROVIDE A DEDICATED NUETRAL FOR EACH CIRCUIT.

J. CLEAN AND RELAMP EXISTING TO REMAIN LUMINAIRES WITHIN SCOPE.

K. REUSE EXISTING UNUSED CIRCUITS IN SCOPE OF WORK.

PRCTI20221788 REVISED SHEET

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	LUMENS	WATTS	CCT	CRI	FINISH	DRIVER TYPE	DIMMING INTERFACE	VOLTS	NOTES
R1	RECESSED MOUNTED 2' X 4' OR LUMINAIRE WITH INTEGRAL DIMMING DRIVER AND POWER SUPPLY.	ACUITY	2BLT4	4000	32 W	3500K	90	WHITE	INTEGRAL DRIVER	0-10V	277 V	
R2	RECESSED 6" DOWNLIGHT WITH INTEGRAL DIMMING DRIVER AND POWER SUPPLY	ACUITY	EVO6M	2000	25 W	3500K	90	WHITE	INTEGRAL DRIVER	0-10V	277 V	
R3	RECESSED MOUNTED 2' X 2' LUMINAIRE WITH INTEGRAL DIMMING DRIVER AND POWER SUPPLY.	ACUITY	2BLT2	4000	36 W	3500K	90	WHITE	INTEGRAL DRIVER	0-10V	277 V	

SUBMIT ALL ELECTRICAL REVISIONS TO L & I FOR REVIEW
Separate electrical permit is required with Washington State Department of Labor & Industries.
https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections or Licensing information: Call 1-800-647-0982

SHEET NOTES

A. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK AREAS.

B. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT AND LOCATION OF ALL DEVICES AND MISCELLANEOUS EQUIPMENT PRIOR TO INSTALLATION.

C. ALL DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED.

D. COORDINATE EXACT EQUIPMENT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS. REFER TO EQUIPMENT SCHEDULE AND PANEL SCHEDULES FOR MORE INFORMATION.

E. NO PIPING, DUCTS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN THE DEDICATED SPACES FOR SWITHBOARDS AND PANELBOARDS.

F. ALL NEW CONDUIT SHALL BE CONCEALED IN WALLS AND CEILING OR BELOW FLOORS, UNLESS OTHERWISE NOTED.

G. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.

H. WIRE SIZES ARE BASED ON BEST ESTIMATE OF HOW WIRING WILL BE ROUTED IN THE FIELD. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INCREASED WIRE SIZES DUE TO FIELD CONDITIONS RESULTING IN EXTENDED CONDUIT PATHS. GROUND WIRE SIZES ARE REQUIRED TO BE ADJUSTED PER ARTICLE 250 OF THE NEC WHEN WIRES ARE INCREASED FOR VOLTAGE DROP.

I. CONTRACTOR TO MAINTAIN CONTINUITY OF CIRCUITS FEEDING DEVICES INDICATED TO REMAIN AND ANY CIRCUITS SERVICING DEVICES OUTSIDE THE PROJECT BOUNDARY.

J. PROVIDE A DEDICATED NUETRAL FOR EACH CIRCUIT.

K. REFER TO VENDOR SHOP DRAWINGS FOR EXACT MOUNTING HEIGHT AND LOCATION OF ALL DEVICES AND MISCELLANEOUS EQUIPMENT PRIOR TO INSTALLATION.

KEYNOTES

E1 PROVIDE POWER FOR CEILING MOUNTED STRYKER BOOM 'D2' FROM ISOLATION PANEL. (8) DUPLEX RECEPTACLES AND (1) 208V 30A L6-30R COORDINATE ROUTING WITH MEDICAL SYSTEM VENDOR. SEE ISOLATION PANEL SCHEDULE FOR CIRCUITING.

E3 PROVIDE POWER FOR DOOR OPERATOR. DOOR OPERATOR SHALL HAVE OVERRIDE FUNCTION TO DISABLE OPERATORS DURING CASE.

E4 PROVIDE POWER FOR ANESTHESIA PYXIS.

E5 PROVIDE POWER FOR ANESTHESIA MACHINE.

E7 LIGHTING SHALL BE PROVIDED BY INTEGRATED CEILING MANUFACTURER. COORDINATE POWER CONNECTION AS REQUIRED. INTEGRATED CEILING LIGHTING SHALL BE CONTROLLED BY ZONE "a,b,c,d" AND DIMMABLE.

E8 PROVIDE POWER CONNECTION TO INTEGRATED CEILING LIGHTING SYSTEM FROM CONTROL PANELS LOCATED IN CONTROL ROOM. PROVIDE ALL CONDUIT AND WIRING TO CONTROLS AND INTEGRATED CEILING PER MANUFACTURER REQUIREMENTS.

E9 PROVIDE POWER FOR CEILING MOUNTED STRYKER BOOM 'D3' FROM ISOLATION PANEL. (5) DUPLEX RECEPTACLES. COORDINATE ROUTING WITH MEDICAL SYSTEM VENDOR. SEE ISOLATION PANEL SCHEDULE FOR CIRCUITING. 5

E11 EXISTING LIGHTING TO REMAIN. PROVIDE CONTROL WIRING TO NEW LIGHTING CONTROLS.

E12 INTERCEPT AND EXTEND EXISTING CRITICAL BRANCH LIGHTING CIRCUIT TO NEW LED LUMINAIRES.

E13 ENCLOSED CIRCUIT BREAKER. REFER TO ONE LINE DIAGRAM ON SHEET E3.01 FOR CIRCUIT DESIGNATION, SIZE, FEEDER AND ADDITIONAL INFORMATION.

E15 PROVIDE 250VA MYERS ILLUMINATOR LVM INVERTER FOR EMERGENCY LIGHTING IN OR#1 AND LOCATE IN ACCESSIBLE CEILING SPACE.

E16 PROVIDE BRANCH CIRCUIT CONNECTION TO ELAPSE TIMER.

E17 NEW LOCATION OF EXISTING ISOLATED POWER PANEL REMOTE ANNUCIATOR. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH IN.

E18 INTERCEPT AND EXTEND EXISTING CRITICAL BRANCH LIGHTING CIRCUIT TO NEW LED LUMINAIRES.

E19 PROVIDE 18"X18"X6" PULL BOX FOR PHILLIPS EQUIPMENT. REFER TO PHILLIPS DRAWINGS FOR ADDITIONAL INFORMATION.

E20 LUMINAIRE POWER TO BE ROUTED THROUGH NEW OR#1 INVERTER.

E21 PROVIDE POWER FOR CEILING MOUNTED STRYKER BOOM 'D4' FROM ISOLATION PANEL. (8) DUPLEX RECEPTACLES. COORDINATE ROUTING WITH MEDICAL SYSTEM VENDOR. SEE ISOLATION PANEL SCHEDULE FOR CIRCUITING.

E22 PROVIDE 208V 2P BRANCH CIRCUIT CONNECTION TO STRYKER BOOM L6-30 RECEPTACLE. 3/4"C. 2#10 & 1#10G.

E23 PROVIDE 120V BRANCH CIRCUIT CONNECTION TO STRYKER BOOM MOTOR/BRAKE.

E24 PROVIDE RELAY AND BRANCH CIRCUIT CONNECTION TO X-RAY IN-USE LIGHT AND INTERCONNECT WITH PHILLIPS 'MA' RACK FOR A COMPLETE AND OPERABLE SYSTEM.

E25 PROVIDE ADDITIONAL OR#1 LIGHTING CONTROL WIRING TO PHILLIPS PROVIDED FOOTSWITCH. FOOTSWITCH SHALL BE PROGRAMMED FOR ON/OFF CONTROL OF PERIMETER ZONE 'f'. REFER TO PHILIPS DRAWINGS FOR ADDITIONAL INFORMATION.

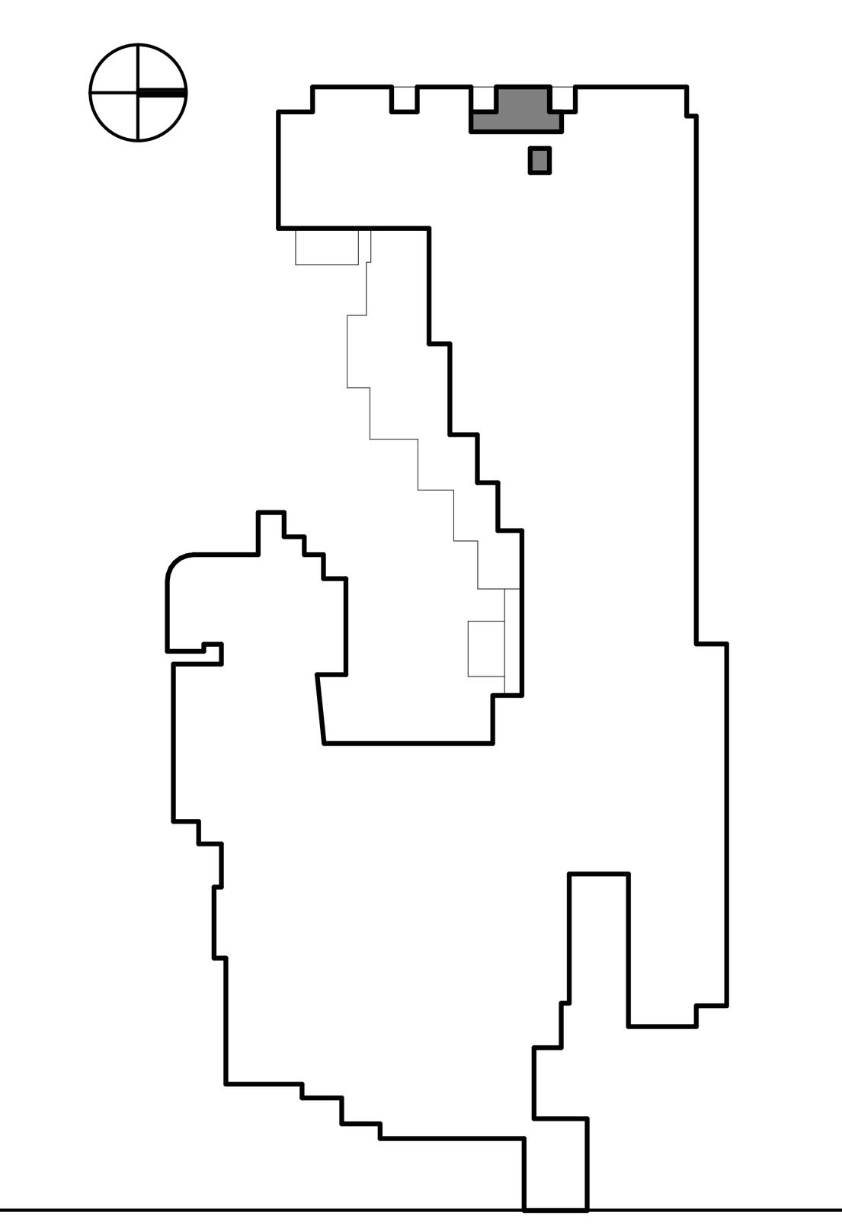
E28 PROVIDE 208V 2P RECEPTACLE L6-30R FOR LASER. 3/4" 3#10 & 1#10G. COORDINATE WITH OWNER PRIOR TO ORDERING.

E29 PROVIDE 120V RELAY FOR PHILIPS FOOTSWITCH TO PHILIPS EQUIPMENT. ROUTE PERIMETER LIGHTING ZONE 'f' THROUGH RELAY. REFER TO PHILPS DRAWINGS AND WIRING DIAGRAM FOR ADDITIONAL INFORMATION.

5 E30 PROVIDE 120V DUPLEX RECEPTACLE FOR STRYKER TOUCH SCREEN. VERIFY EXACT MOUNTING HEIGHT WITH STRYKER PRIOR TO ROUGH IN.

KEY PLAN - LEVEL 2

AREA OF WORK



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04/07/2023

REVISIONS

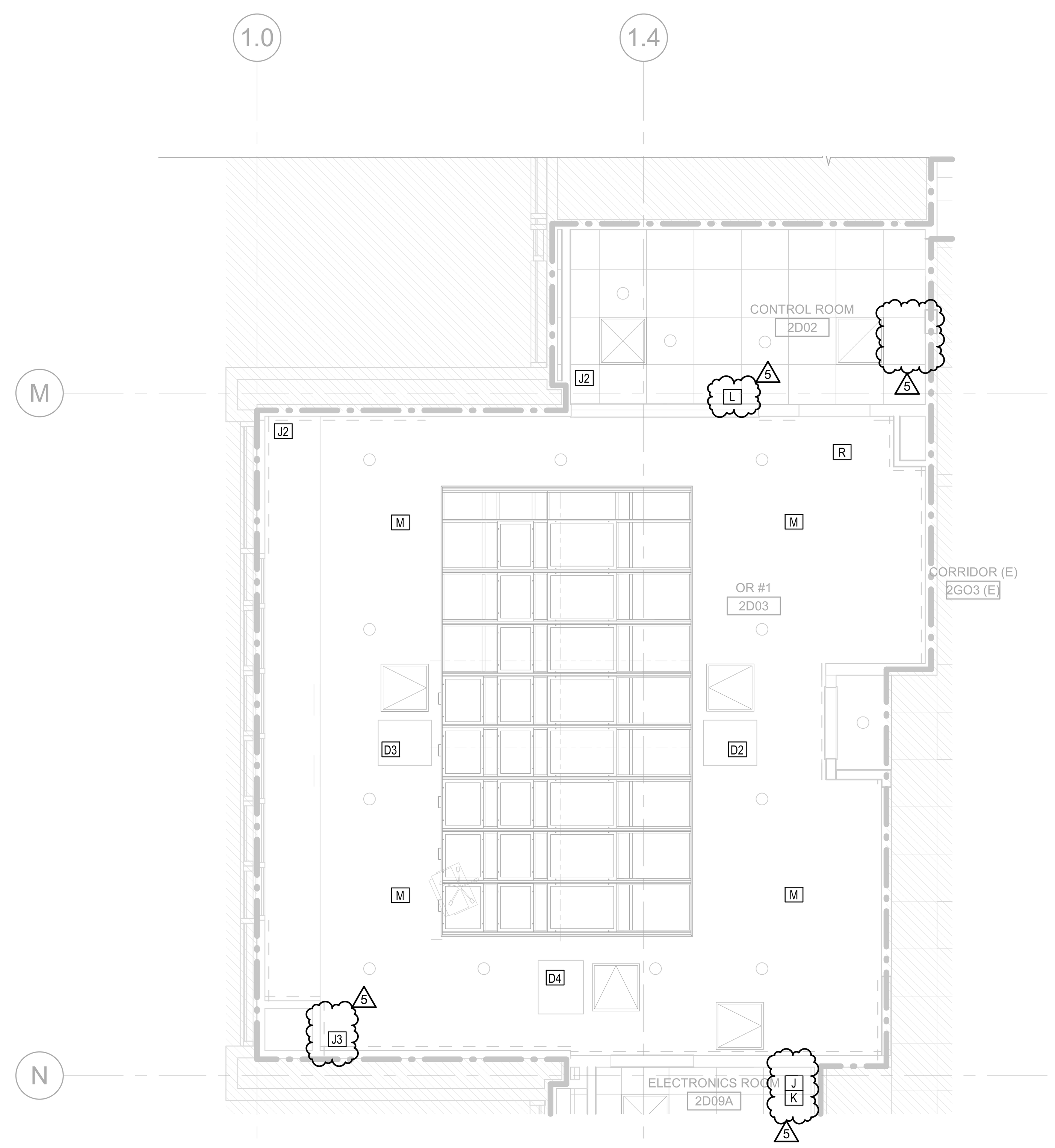
1	ASI 002	04/07/2023
2	RFI-003	06/09/2023
5	ASI 005	03/15/2024

73-19057-00

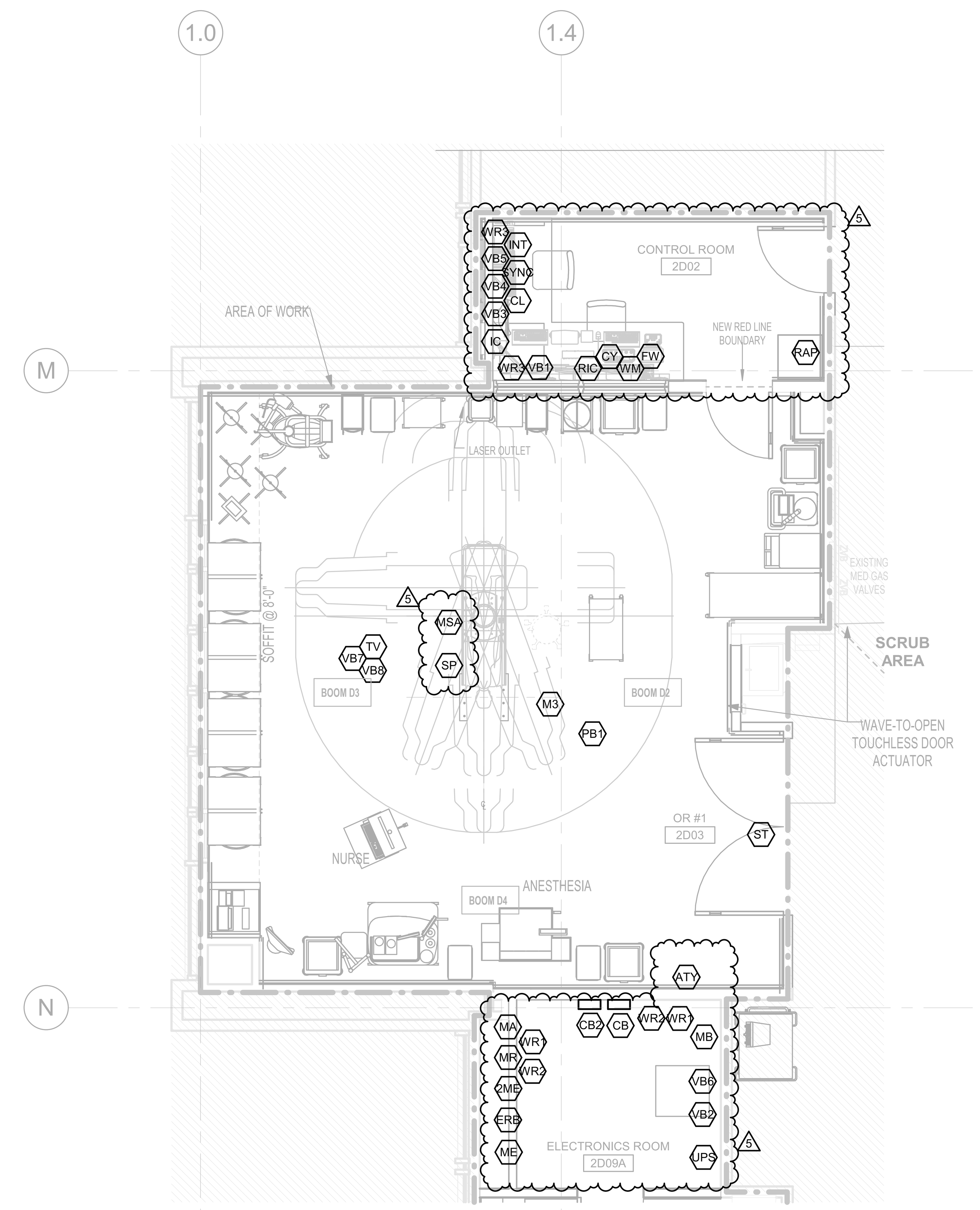
ELECTRICAL ENLARGED PLANS

E2.01

PRCTI20221788 REVISED SHEET



2 E2.03 SECOND FLOOR - CEILING BOX AND CONDUIT PLAN - STRYKER EQUIPMENT
1/4" = 1'-0"



1 E2.03 SECOND FLOOR PLAN - BOX & CONDUIT PLAN - PHILLIPS EQUIPMENT
1/4" = 1'-0"

SHEET NOTES

A. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK AREAS.

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SYMBOL LEGEND

(X) PHILLIPS EQUIPMENT ID

[X] STRYKER EQUIPMENT ID

CONDUIT SCHEDULE

CONDUIT RUN ITEM - ITEM	CONDUIT QTY	CONDUIT SIZE
D2 - J	1	1-1/4"
D2 - J	2	2"
D2 - K	2	1"
D2 - D3	1	1"
D3 - J	1	1-1/4"
D3 - J	2	2"
D3 - K	2	1"
D4 - J	1	1-1/4"
D4 - J	2	2"
J2 - J	1	1-1/4"
J3 - J	1	1-1/4"
L - K	1	1"
K - *	1	1"
M - J	1	3/4"
K10 - J	1	1-1/4"

* - NEAREST ELECTRICAL PANEL

NO.	FROM	TO	CONDUIT QTY	CONDUIT SIZE
1	ERB	GE	1	3/4"
2	ERB	ROOM OUTLETS	1	3/4"
3	MA	WL	1	3/4"
4	ATY	DS	1	3/4"
5	ATY	MA	1	2-1/2"
6	ATY	TV	1	3/4"
7	SP	ME	2	1-1/2"
8	SP	ME	1	1-1/2"
9	SP	ME	1	1"
10	SP	ME	1	2-1/2"
11	SP	MR	1	2"
12	SP	MR	1	2-1/2"
13	MSA	MA	1	2"
14	MSA	MA	1	3"
15	MSA	MA	1	1-1/2"
16	MSA	MR	1	2"
17	MSA	MR	1	2"
18	TV	MA	1	1-1/2"
19	TV	MA	1	2-1/2"
20	TV	MR	1	1-1/2"
21	TV	MB	1	1-1/2"
22	TV	MB	1	1-1/2"
23	TV	WM	1	3/4"
24	CY	MR	1	2"
25	CY	MA	1	1-1/2"
26	CY	MA	1	2-1/2"
27	MR	WM	1	1-1/2"
28	PB1	2ME	1	2-1/2"
29	PB1	2ME	1	1"
30	PB1	2ME	1	1"

NO.	FROM	TO	CONDUIT QTY	CONDUIT SIZE
31	PB1	2ME	2	1-1/2"
32	PB1	MR	2	2-1/2"
33	PB1	MR	1	2-1/2"
34	PB1	MR	1	1-1/2"
35	PB1	MA	1	2"
36	TV	WR3	2	1-1/2"
37	MSA	WR3	2	1-1/2"
38	TBD	TBD	-	-
39	TBD	ERB	-	-
40	VB1	MB	1	1"
41	VB2	MB	1	1"
42	VB3	MB	1	1"
43	VB4	MB	1	1"
44	VB5	MB	1	1"
45	VB6	MB	1	1"
46	VB6	CY	1	1"
47	WR2	WR3	1	1"
48	PWR SPLY	M3	1	3/4"
49	IC	MSA	1	3"
50	IC	MA	1	3"
51	MB	WM	1	1-1/2"
52	MR	CY	1	1"
53	TV2	MB	1	2-1/2"
54	PNL 4WYD	CB	1	SEE ONE LINE
55	PNL4WYD	CB2	1	SEE ONE LINE
56	CB	UPS	1	SEE ONE LINE
57	CB2	UPS	1	SEE ONE LINE
58	UPS	ERB	1	3/4"
59	UPS	ST	1	3/4"
60	UPS	MA	1	SEE ONE LINE

NO.	FROM	TO	CONDUIT QTY	CONDUIT SIZE
61	WR2	ERB	1	3/4"
62	MA	ERB	1	3/4"
63	RAP	UPS	1	3/4"
64	UPS	MA	1	SEE ONE LINE
65	CB	ST	1	3/4"
66	INT	MSA	1	3"
67	MSA	PHY	1	3"
68	PHY	PHY MON	1	2"
69	INT	MSA	1	1-1/2"
70	INT	MSA	1	1-1/2"

CLARK/KJOS ARCHITECTS, LLC

City of Puyallup Development & Permitting Services ISSUED PERMIT
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5 ASI 005 03/15/2024

73-19057-00

ELECTRICAL BOX AND CONDUIT PLAN

E2.03

Autodesk Docs://206-002 - Multicare GSH Hybrid OR/MultiCare Good Sam Hybrid OR-MEADOWS_MAZ.rvt
3/16/2024 11:57:08 PM

(E) PANELBOARD: 2WYD1-2

VOLTS (L-L): 208 V **PHASE:** 3 **WIRES:** 4 **OPTIONS:** FEED THROUGH LUGS, EXISTING PANEL - NEW WORK SHOWN IN BOLD
PANEL TYPE: CR **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
MCB: MLO **BUS RATING:** 225A **AIC RATING:** 10,000 AIC **SUPPLY FROM:**

CKT	DESCRIPTION	AMPS	POLES	A		B		C		POLES	AMPS	DESCRIPTION	CKT
43	REC - 2D09 WASHER/STERILIZER	20 A	1	0	0					1	20 A	REC - 2D07	44
45	REC - 2D09 STERILIZER	20 A	1			0	0			1	20 A	REC - 2D04	46
47	REC - 2D09 WARMING CAB	20 A	1					0	0	1	20 A	REC - 2D04	48
49	REC - 2D11 ALCOVE	20 A	1	0	0					1	20 A	REC - 2D04	50
51	REC - 2D11 WASHER/STERILIZER	20 A	1			0	0			1	20 A	COMM EQUIP - 2D12	52
53	REC - 2D11 WARMING CAB	20 A	1					0	0	1	20 A	COMM EQUIP - 2D12	54
55	REC - 2G05/2G15 CLOCK	20 A	1	0	0					1	20 A	REC - 2D06	56
57	REC - 2G05 CLOCK	20 A	1			0	0			1	20 A	REC - 2D08/15	58
59	REC - 2G02 BONE FREZER	20 A	1					0	1.5	1	20 A	**OR#1 2D03 - ELAPSE TIMER**	60
61	REC - 2G03	20 A	1	0	0					1	20 A	TELECOM	62
63	**REC - 2D09 SUB STERILE**	20 A	1			0.18	0			1	20 A	TELECOM	64
65	**REC - 2D02 MONITORS**	20 A	1					1.8	0.9	1	20 A	**REC - CONTROL RM 2D02 / PANEL RAP**	66
67	HOT WATER	20 A	2	0	0.72					1	20 A	**REC - CONTROL RM 2D02**	68
69						0	0.9			1	20 A	**REC - OR#1 2D03**	70
71	**REC - 2D03 OR#1**	20 A	1					0.54	0.36	1	20 A	**REC - OR#1 2D03 PYXIS**	72
73	CIRCULATION PUMP	20 A	1	0	1.08					1	20 A	**REC - OR#1 2D03**	74
75	**OR#1 2D03 - BOOM L6-30**	30 A	2			0.03	0.72			1	20 A	**REC - ELECTRONICS 2D09A**	76
77								0.03	0.36	1	20 A	**REC - ELECTRONICS 2D09A**	78
79	AUTO DOOR OPENER	20 A	1	0	0.36					1	20 A	**REC - ELECTRONICS 2D09A**	80
81	AUTO DOOR OPENER	20 A	1			0	0.36			1	20 A	**REC - ELECTRONICS 2D09A**	82
83	AUTO DOOR OPENER	20 A	1					0	0.36	1	20 A	**REC - ELECTRONICS 2D09A**	84
			TOTAL LOAD:	2.16 kVA		2.19 kVA		5.85 kVA					
			TOTAL AMPS:	18 A		18 A		49 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
RECEPTACLE	1440 VA	100.00%	1440 VA		
EQUIPMENT	1550.2 VA	100.00%	1550.2 VA	TOTAL CONNECTED LOAD:	10190.2 VA
EQ	7200 VA	100.00%	7200 VA	TOTAL ESTIMATED LOAD:	10190.2 VA
				TOTAL CONNECTED CURRENT:	28 A
				TOTAL EST. DEMAND CURRENT:	28 A
EXISTING LOAD			0 VA		

NOTES:

PANELBOARD: 2WZD

VOLTS (L-L): 208 V **PHASE:** 3 **WIRES:** 4 **OPTIONS:** EXISTING PANEL - NEW WORK SHOWN IN BOLD
PANEL TYPE: EQ **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
MCB: 100 A **BUS RATING:** 100A **AIC RATING:** 10,000 AIC **SUPPLY FROM:**

CKT	DESCRIPTION	NOTES	AMPS	POLES	A		B		C		POLES	AMPS	NOTES	DESCRIPTION	CKT
1	SPACE	--	--	1	--	0					1	15 A	--	EF-1 - ROOF	2
3	SPACE	--	--	1			--	0			1	15 A	--	EF-2 - ROOF	4
5	SPACE	--	--	1					--	0	1	15 A	--	EF-3 - ROOF	6
7	SPACE	--	--	1	--	0					1	15 A	--	EF-4 - ROOF	8
9	SPACE	--	--	1			--	**0.36**			**1**	**20 A**		**REC - ROOF**	10
11	SPACE	--	--	1					--	0	**1**	**20 A**		**AHU OR1 - DUCT DETECTOR**	12
13	SPACE	--	--	1	--	0.06					**1**	**20 A**		**HWP-OR#1**	14
15	SPACE	--	--	1			--	--			1	--	--	SPACE	16
17	SPACE	--	--	1					--	--	1	--	--	SPACE	18
19	SPACE	--	--	1	--	--					1	--	--	SPACE	20
21	SPACE	--	--	1			--	--			1	--	--	SPACE	22
23	SPACE	--	--	1					--	--	1	--	--	SPACE	24
25	SPACE	--	--	1	--	--					1	--	--	SPACE	26
27	SPACE	--	--	1			--	--			1	--	--	SPACE	28
29	SPACE	--	--	1					--	--	1	--	--	SPACE	30
31	SPACE	--	--	1	--	--					1	--	--	SPACE	32
33	SPACE	--	--	1			--	--			1	--	--	SPACE	34
35	SPACE	--	--	1					--	--	1	--	--	SPACE	36
37	SPACE	--	--	1	--	--					1	--	--	SPACE	38
39	SPACE	--	--	1			--	--			1	--	--	SPACE	40
41	SPACE	--	--	1					--	--	1	--	--	SPACE	42
				TOTAL LOAD:	0.06 kVA		0.36 kVA		0 kVA						
				TOTAL AMPS:	1 A		3 A		0 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIPMENT	420.3 VA	100.00%	420.3 VA		
				TOTAL CONNECTED LOAD:	0.42 kVA
				TOTAL ESTIMATED LOAD:	0.42 kVA
				TOTAL CONNECTED CURRENT:	1 A
				TOTAL EST. DEMAND CURRENT:	1 A

NOTES:
CC = CONTROLLED CIRCUIT, H = HACR, G = GFCI, A = AFCI, G/A = COMBO GFCI/AFCI, L = BREAKER LOCK

PANELBOARD: 2WD

VOLTS (L-L): 208 V **PHASE:** 3 **WIRES:** 4 **OPTIONS:** EXISTING PANEL - NEW WORK SHOWN IN BOLD
PANEL TYPE: NORMAL **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
MCB: 225 A **BUS RATING:** 225A **AIC RATING:** 10,000 AIC **SUPPLY FROM:**

CKT	DESCRIPTION	NOTES	AMPS	POLES	A		B		C		POLES	AMPS	NOTES	DESCRIPTION	CKT
1	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	2
3	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	4
5	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	6
7	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	8
9	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	10
11	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	20
21	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	26
27	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	28
29	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	30
31	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	38
39	SPARE	--	20 A	1			0	0			2	20 A	--	SPARE	40
41	**REC - 2D02 CONTROL RM**		**20 A**	**1**					0.36	0					42
43	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	44
45	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	46
47	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	48
49	**REC - OR#1 2D03**		**20 A**	**1**	1.08	0					1	20 A	--	SPARE	50
51	**REC - 2D04 STORAGE**		**20 A**	**1**			1.26	0			1	20 A	--	SPARE	52
53	**BLANKET WARMER**		**20 A**	**1**					1	0	1	20 A	--	SPARE	54
55	**REC - OR#1 2D03**		**20 A**	**1**	0.36	0					1	20 A	--	SPARE	56
57	**REC - OR#1 2D09**		**20 A**	**1**			0.18	0			1	20 A	--	SPARE	58
59	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	60
61	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	62
63	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	64
65	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	66
67	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	68
69	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	70
71	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	72
73	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	74
75	OR#1 2D03 - LASER REC		20 A	2			0.25	0			1	20 A	--	SPARE	76
77									0.25	0	1	20 A	--	SPARE	78
79	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	80
81	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	82
83	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	84
				TOTAL LOAD:	1.44 kVA		1.69 kVA		1.61 kVA						
				TOTAL AMPS:	12 A		14 A		14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
RECEPTACLE	3340 VA	100.00%	3340 VA		
EQUIPMENT	500 VA	100.00%	500 VA	TOTAL CONNECTED LOAD:	4.74 kVA
EQ	900 VA	100.00%	900 VA	TOTAL ESTIMATED LOAD:	4.74 kVA
				TOTAL CONNECTED CURRENT:	13 A
				TOTAL EST. DEMAND CURRENT:	13 A

NOTES:
CC = CONTROLLED CIRCUIT, H = HACR, G = GFCI, A = AFCI, G/A = COMBO GFCI/AFCI, L = BREAKER LOCK

PANELBOARD: 4WYD

VOLTS (L-L): 480 V **PHASE:** 3 **WIRES:** 4 **OPTIONS:** EXISTING PANEL - NEW WORK SHOWN IN BOLD
PANEL TYPE: CR **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
MCB: 400 A **BUS RATING:** 225A **AIC RATING:** 14,000 AIC **SUPPLY FROM:**

CKT	DESCRIPTION	NOTES	AMPS	POLES	A		B		C		POLES	AMPS	NOTES	DESCRIPTION	CKT
1	**OR#1 ULTRASUITE LTG**		20 A	1	1.55	0					1	20 A	--	SPARE	2
3	**OR#1 ULTRASUITE LTG**		20 A	1			1.55	0			1	20 A	--	SPARE	4
5	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	6
7	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	8
9	SPARE	--	20 A	1			0	0			1	20 A	--	LTG: EAST	10
11	**OR#1 LTG-INVERTER**		20 A	1					0.42	0	1	20 A	--	LTG: EAST	12
13	SPARE	--	20 A	1	0	0					1	20 A	--	LTG: EAST	14
15	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	20
21	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	24
25	OR-1 ISOLATION PANEL	--	30 A	2	0	0					1	20 A	--	SPARE	26
27							0	0			1	20 A	--	SPARE	28
29	OR-2 ISOLATION PANEL	--	20 A	2					0	0	1	20 A	--	SPARE	30
31					0	0					1	20 A	--	SPARE	32
33	OR-3 ISOLATION PANEL	--	20 A	2			0	0			1	20 A	--	SPARE	34
35									0	0	1	20 A	--	SPARE	36
37	OR-4 ISOLATION PANEL	--	20 A	2	0	2.16					3	100 A		(E) XFMR 2WYD/1	38
39							0	2.19							40
41	SPACE	--	--	1					--	5.85					42
				TOTAL LOAD:	3.71 kVA		3.74 kVA		6.27 kVA						
				TOTAL AMPS:	13 A		13 A		23 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	422 VA	125.00%	527.5 VA		
RECEPTACLE	1440 VA	100.00%	1440 VA	TOTAL CONNECTED LOAD:	13.71 kVA
EQUIPMENT	4650.2 VA	100.00%	4650.2 VA	TOTAL ESTIMATED LOAD:	13.82 kVA
EQ	7200 VA	100.00%	7200 VA	TOTAL CONNECTED CURRENT:	16 A
				TOTAL EST. DEMAND CURRENT:	17 A

NOTES:
CC = CONTROLLED CIRCUIT, H = HACR, G = GFCI, A = AFCI, G/A = COMBO GFCI/AFCI, L = BREAKER LOCK

PANELBOARD: 4WZD

VOLTS (L-L): 480 V **PHASE:** 3 **WIRES:** 4 **OPTIONS:** EXISTING PANEL - NEW WORK SHOWN IN BOLD
PANEL TYPE: EQ **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
MCB: 225 A **BUS RATING:** 225A **AIC RATING:** 14,000 AIC **SUPPLY FROM:**

CKT	DESCRIPTION	NOTES	AMPS	POLES	A		B		C		POLES	AMPS	NOTES	DESCRIPTION	CKT
1					0	0									2
3	(E) CRU-1	--	15 A	3			0	0			3	90 A	--	(E) PANEL 2WZD (45KVA XFMR)	4
5									0	0					6
7					3.83	0					1	20 A	--	SPARE	8
9	**AHU-OR-1S**		**25 A**	**3**			3.83	0			1	20 A	--	SPARE	10
11									3.83	0	1	20 A	--	SPARE	12
13					0	0									14
15	(E) AHU-OR2	--	15 A	3			0	0			3	25 A	--	(E)H-OR2	16
17									0	0					18
19					0	0									20
21	(E)WCH-3	--	15 A	3			0	0			3	25 A	--	(E)H-OR2	22
23									0	0					24
25					5.56	0									26
27	**CH-OR1**		**45 A**	**3**			5.56	0			3	25 A	--	(E)H-OR4	28
29									5.56	0					30
31					0	0					1	20 A	--	SPARE	32
33	(E)P-FCU-1	--	15 A	3			0	0			1	20 A	--	SPARE	34
35									0	0	1	20 A	--	SPARE	36
37					2.07	4.5									38
39	**AHU-OR-1R**		**20 A**	**3**			2.07	4.5			**3**	**25 A**		**SG-OR1**	40
41									2.07	4.5					42
				TOTAL LOAD:	15.96 kVA		15.96 kVA		15.96 kVA						
				TOTAL AMPS:	58 A		58 A		58 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIPMENT	47890 VA	100.00%	47890 VA		
				TOTAL CONNECTED LOAD:	47.89 kVA
				TOTAL ESTIMATED LOAD:	47.89 kVA
				TOTAL CONNECTED CURRENT:	58 A
				TOTAL EST. DEMAND CURRENT:	58 A

NOTES:
CC = CONTROLLED CIRCUIT, H = HACR, G = GFCI, A = AFCI, G/A = COMBO GFCI/AFCI, L = BREAKER LOCK

PANELBOARD: IP OR #1

VOLTS (L-L): 208 V **PHASE:** 1 **WIRES:** 3 **OPTIONS:** EXISTING PANEL - NEW WORK SHOWN IN BOLD, ISOLATED POWER PANEL
PANEL TYPE: **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
MCB: MLO **BUS RATING:** 30A **AIC RATING:** 10,000 AIC **SUPPLY FROM:**

CKT	DESCRIPTION	NOTES	AMPS	POLES	A	B	POLES	AMPS	NOTES	DESCRIPTION	CKT
1	**OR#1 2D03 - BOOM 'D3' REC**		**20 A**	**1**	**0.36 / 0.18**		**1**	**20 A**		**OR#1 2D03 - BOOM 'D2' REC**	2
3	**OR#1 2D03 - BOOM 'D3' REC**		**20 A**	**1**		**0.36 / 0.36**	**1**	**20 A**		**OR#1 2D03 - BOOM 'D2' REC**	4
5	**OR#1 2D03 - BOOM 'D3' REC**		**20 A**	**1**	**0.36 / 0.36**		**1**	**20 A**		**OR#1 2D03 - BOOM 'D2' REC**	6
7	**OR#1 2D03 - BOOM 'D4' REC**		**20 A**	**1**		**0.36 / 0.18**	**1**	**20 A**		**OR#1 2D03 - BOOM 'D2' REC**	8
9	**OR#1 2D03 - BOOM 'D4' REC**		**20 A**	**1**	**0.36 / 0.18**		**1**	**20 A**		**OR#1 2D03 - BOOM 'D2' REC**	10
11	**OR#1 2D03 - BOOM 'D4' REC**		**20 A**	**1**		**0.18 / 0.18**	**1**	**20 A**		**OR#1 2D03 - BOOM 'D2' REC**	12
13	**OR#1 2D03 - BOOM 'D4' REC**		**20 A**	**1**	**0.18 / 0.18**		**1**	**20 A**		**OR#1 2D03 - BOOM 'D4' REC**	14
15	**OR#1 2D03 - BOOM MOTOR...**		**20 A**	**1**		**0.54 / 0.18**	**1**	**20 A**		**OR#1 2D03 - BOOM 'D4' REC**	16
				TOTAL LOAD:	2.16 kVA	2.34 kVA					
				TOTAL AMPS:	21 A	22 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIPMENT	4500 VA	100.00%	4500 VA		
				TOTAL CONNECTED LOAD:	4.5 kVA
				TOTAL ESTIMATED LOAD:	4.5 kVA
				TOTAL CONNECTED CURRENT:	22 A
				TOTAL EST. DEMAND CURRENT:	22 A

NOTES:
CC = CONTROLLED CIRCUIT, H = HACR, G = GFCI, A = AFCI, G/A = COMBO GFCI/AFCI, L = BREAKER LOCK

LOAD VERIFICATION SCHEDULE

PANEL NAME	SYSTEM TYPE	VOLTAGE	EXISTING LOAD	SEASONAL DEMAND	EXISTING LOAD + SEASONAL DEMAND	EXISTING LOAD + SEASONAL DEMAND + 125%	30-DAY/12MO LOAD METERING	TOTAL NEW LOAD	TOTAL LOAD (EXISTING+NEW)	TOTAL AMPS (EXISTING+NEW)	MCB RATING
2WD	NORMAL	208V	7,920	100%	7,920	12,375	10/7/22 - 11/7/22	4,240	16,615	46.15	225A
4WD	NORMAL	480V	32,825	100%	32,825	51,288	10/7/22 - 11/7/22	4,240	55,528	66.82	225A
4WA	NORMAL	480V	8,726	100%	8,726	13,634	10/7/22 - 11/7/22	3,300	16,934	20.38	100A
2WZD	EQUIPMENT	208V	3,888	125%	4,860	6,075	10/7/22 - 11/7/22	660	6,735	18.71	100A
4WZD	EQUIPMENT	480V	9,557	125%	11,946	14,932	10/7/22 - 11/7/22	48,550	63,482	76.39	100A
4WZPH	EQUIPMENT	480V	144,843	125%	181,054	226,318	10/7/22 - 11/7/22	49,210	275,528	331.56	400A
4WZDP	EQUIPMENT	480V	156,477	125%	195,597	244,496	10/7/22 - 11/7/22	49,210	293,706	353.44	800A
2WYD1	CRITICAL	208V	12,996	100%	12,996	20,306	10/7/22 - 11/7/22	9,510	29,816	82.82	225A
4WYD	CRITICAL	480V	58,752	100%	58,752	91,800	10/7/22 - 11/7/22	12,770	104,570	125.84	400A
SWBD W	NORMAL	480V	413,615	100%	413,615	646,273	JULY 2022	65,560	711,833	856.60	2000A

NOTE: ALL LOAD SHOWN IN VA

Peak Utility Demand (kW)

Month	Peak Demand (kW)	Percent of Peak	Seasonal Demand
November 2021	2,523.97	61%	164%
Decemeber 2021	2,326.32	56%	178%
January 2022	2,369.29	57%	175%
February 2022	2,254.68	55%	183%
March 2022	2,312.25	56%	179%
April 2022	2,271.60	55%	182%
May 2022	2,587.95	63%	160%
June 2022	3,778.81	91%	109%
July 2022	**4,136.15**	**100%**	100%
August 2022	3,942.51	95%	105%
October 2022	3,311.32	80%	125%

PRCTI20221788 REVISED SHEET

CLARK/KJOS ARCHITECTS LLC

MAZZETTI

Good Samaritan

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

HYBRID OR #1
MULTICARE GOOD SAMARITAN HOSPITAL
401 15TH AVE SE, PUYALLUP, WA 98372

100% CONSTRUCTION DOCUMENTS
04/07/2023

REVISIONS
1 ASI 002 04/07/2023
5 ASI 005 03/15/2024

73-19057-00

ELECTRICAL PANEL SCHEDULES & LOAD CALCULATIONS

E4.01