QUIL CEDA CREEK COUNSELING
TULALIP TRIBES FEDERAL CORPORATION

BID SET / CONSTRUCTION DOCUMENTS

PROJECT INFORMATION

PROJECT DESCRIPTION
AN ADDICTION TREATMENT FACILITY OFFERING WRAP-AROUND SERVICES FOR PATIENTS, INCLUDING MAT, PRIMARY CARE, AND MENTAL HEALTH COUNSELING. THIS PROJECT IS AN INTERIOR TENANT IMPROVEMENT, WITH EXTERIOR AND SITE UPDATES LIMITED TO THE ENTRY FAÇADE, LANDSCAPE DESIGN, AND SELECT CIVIL IMPROVEMENTS FOR CODE-COMPLIANT SITE ACCESS. IT IS LOCATED IN THE EAST BUILDING OF THE SITE - ADDRESSED 6330 31ST AVENUE NE, QUIL CEDA VILLAGE, MARYSVILLE, WA 98217 – AND WILL OCCUPY THE SOUTHEAST PORTION OF THE BUILDING.

SITE ADDRESS
6330 31ST AVE NE
TULALIP, WA 98271

LEGAL DESCRIPTION
SEC 29 TWP 30 RGE 05TR 1 LTS (1-81) AF NO 8112165011

PROPERTY CATEGORY
LAND AND IMPROVEMENTS

USE CODE
TRANSPORTATION EQUIPMENT

PARCEL NUMBER(S)
30052900400500

AUTHORITY HAVING JURISDICTION
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VICINITY MAP

PROJECT TEAM

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TULALIP TRIBES FEDERAL CORPORATION
6330 31ST AVE NE
TULALIP, WA 98271

PROJECT # 2016106.11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

COVER SHEET

SHEET #
A00.01

ABBREVIATIONS

– A –			
A	AMP		
A/V	AUDIO VISUAL		
AA	ART & ACCESSORIES		
AB	ANCHOR BOLT		
ACST	ACOUSTIC(AL)		
ACT	ACOUSTIC CEILING TILE		
ADJ	ADJACENT		
	ADJUST(ABLE)		
AFF	ABOVE FLOOR FINISH		
ALT	ALTERNATE		
ALUM	ALUMINUM		
APPROX	APPROXIMATELY		
ARCH	ARCHITECT(URAL)		
AUTO	AUTOMATIC		
– B –			
BATH	BATHROOM		
BD	BOARD		
BED	BEDROOM		
BLDG	BUILDING		
BLKG	BLOCKING		
BM	BEAM		
BO	BOTTOM OF		
BOB	BOTTOM OF BEAM		
BOD	BOTTOM OF DECK		
BOF	BOTTOM OF FRAMING		
BOJ	BOTTOM OF JOIST		
BTWN	BETWEEN		
BUR	BUILT UP ROOF(ING)		
– C –			
CAB	CABINET		
CALC	CALCULATION		
CB	CATCH BASIN;		
	CORNER BEAD		
CEM	CEMENT		
CFOI	CONTRACTOR FURNISHED & OWNER INSTALLED		
CIP	CAST IN PLACE		
CJ	CONTROL JOINT;		
	CONSTRUCTION JOINT		
CL	CENTERLINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
CO	CLEAN OUT		
COL	COLUMN		
CONC	CONCRETE		
CONF	CONFERENCE		
CONN	CONNECT(ION)		
CONSTR	CONSTRUCTION		
CONT	CONTINUE;		
	CONTINUOUS		
COORD	COORDINATE		
CORR	CORRIDOR		
CP	CEMENT PLASTER		
CPT	CARPET		
CS	CONCRETE SEALER		
CSMT	CASEMENT		
CTR	CENTER		
– D –			
D	DEEP		
	DRYER		
DBL	DOUBLE		
DEMO	DEMOLISH(ED)		
	DEMOLITION		
DEPT	DEPARTMENT		
DET	DETAIL		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DISP	DISPOSAL		
DL	DEAD LOAD		
DN	DOWN		
DP	DECORATIVE PANEL		
DR	DOOR		
	DINING ROOM		
	DRAIN		
DS	DOWNSPOUT		
DW	DISHWASHER		
DWG	DRAWING		
DWR	DRAWER		
– E –			
(E)	EXISTING		
E	EAST		
EA	EACH		
EC	EDGE OF CURB		
EE	EACH END		
EIFS	EXTERIOR INSULATION & FINISH SYSTEM		
EF	EACH FACE		
EJ	EXPANSION JOINT		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EMER	EMERGENCY		
ENCL	ENCLOSE(D);		
	ENCLOSURE		
EP	ELECTRICAL PANELBOARD		
EQ	EQUAL		
EQP	EQUIPMENT		
EST	ESTIMATE(D)		
EW	EACH WAY		
EWC	ELECTRIC WATER COOLER		
EWH	ELECTRIC WATER HEATER		
EXH	EXHAUST		
EXP	EXPOSED		
	EXPANSION		
EXT	EXTERIOR		
– F –			
FA	FIRE ALARM		
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FD	FLOOR DRAIN		
FDC	FIRE DEPARTMENT CONNECTION		
FDTN	FOUNDATION		
FDV	FIRE DEPARTMENT VALVE		
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET		
FF	FACTORY FINISH;		
	FINISH FACE		
FH	FIRE HYDRANT		
FHC	FIRE HOSE CABINET		
FHR	FIRE HOSE RACK;		
	FIRE HOSE REEL		
FIN	FINISH(ED)		

– F CONTINUED –			
FIXT	FIXTURE		
FLASH	FLASHING		
FLR	FLOOR		
FMF	FLEXIBLE MEMBRANE FLASHING		
FOB	FACE OF BRICK		
FOC	FACE OF CONCRETE		
FOF	FACE OF FINISH		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FP	FIREPLACE		
FRP	FIBER REINFORCED PANELS		
FRTW	FIRE RETARDANT TREATED WOOD		
FRZ	FREEZER		
FS	FULL SIZE		
FCG	FURNITURE-CASEGOODS		
FSG	FURNITURE-SOFTGOODS		
FT	FOOT;		
	FEET		
FTG	FOOTING		
– G –			
G	GROUND		
GA	GAUGE		
GALV	GALVANIZED		
GAR	GARAGE		
GB	GRAB BAR		
GC	GENERAL CONTRACTOR		
GEN	GENERAL		
GFRG	GLASS FIBER REINFORCED GYPSUM		
GI	GALVANIZED IRON		
GL	GLASS;		
	GLAZING		
GLF	GLAZING FILM		
GLULAM	GLUE LAMINATED		
GR	GROSS		
GT	GROUT		
GWB	GYPSUM WALL BOARD		
– H –			
H	HEIGHT;		
	HIGH		
HB	HOSE BIB		
HC	HOLLOW CORE		
HDR	HEADER		
HDW	HARDWARE		
HGR	HANGER		
HM	HOLLOW METAL		
HRL	HANDRAIL		
HORIZ	HORIZONTAL		
HR	HOUR(S)		
HVAC	HEATING, VENTILATION & AIR CONDITIONING		
HWT	HOT WATER TANK		
– I –			
IIC	IMPACT INSULATION CLASS		
IN	INCH(ES)		
INC	INCREASE		
INCL	INCLUDE(D);		
	INCLUDING		
INFO	INFORMATION		
INSTL	INSTALL(ATION)		
INSUL	INSULATION		
INT	INTERIOR		
– J –			
JAN	JANITOR		
JBOX	JUNCTION BOX		
JT	JOINT		
– K –			
KD	KILN DRIED		
KIT	KITCHEN		
KW	KILOWATT		
– L –			
L	LEFT		
	LENGTH;		
	LINEN		
	LONG		
LAB	LABORATORY		
LAM	LAMINATE(D)		
LAU	LAUNDRY		
LAV	LAVATORY		
LB(S)	POUND(S)		
LD	LIGHTING-DECORATIVE		
LDG	LANDING		
LL	LIVE LOAD		
LOC	LOCATION		
LP	LIGHTING-PORTABLE		
LPT	LOW POINT		
LR	LIVING ROOM		
LRG	LARGE		
LT	LIGHTING		
LVR	LOUVER		
– M –			
M/S	MIRROR & SHELF		
MACH	MACHINE		
MAINT	MAINTENANCE		
MATL	MATERIAL		
MAX	MAXIMUM		
MB	MACHINE BOLT		
MBR	MASTER BEDROOM		
MC	MEDICINE CABINET		
MDO	MEDIUM DENSITY OVERLAY		
MECH	MECHANICAL		
MED	MEDIUM		
MEDS	MEDICINE;		
	MEDICAL		
MEMB	MEMBRANE		
MEZZ	MEZZANINE		
MFR	MANUFACTURER		
MFRREC	MANUFACTURER'S RECOMMENDATION(S)		
MGR	MANAGER		
MH	MANHOLE		
MIN	MINIMUM		
MIR	MIRROR		
MISC	MISCELLANEOUS		
MO	MASONRY OPENING		
	MONITOR		
MTD	MOUNTED		
MTL	METAL		
MULL	MULLION		
MULT	MULTIPLE		
MW	MICROWAVE OVEN		

– N –			
N	NORTH		
NA	NOT APPLICABLE		
NC	NOISE CRITERIA;		
	NURSE CALL		
NCAP	NURSE CALL ANNUNCIATOR PANEL		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NOM	NOMINAL		
NTS	NOT TO SCALE		
– O –			
OF	OVER		
OA	OVERALL		
OC	ON CENTER		
OCC	OCCUPANT'S		
	OCCUPANT LOAD;		
	OCCUPANCY		
OD	OUTSIDE DIAMETER		
OFCI	OWNER FURNISHED & CONTRACTOR INSTALLED		
OFD	OVERFLOW DRAIN		
OFF	OFFICE		
OGL	OBSCURE GLASS		
OH	OVERHEAD		
OPH	OPPOSITE HAND		
OPNG	OPENING		
OPP	OPPOSITE		
ORD	OVERFLOW ROOF DRAIN		
– P –			
P	PAINT(ED);		
	PANTRY		
PC	PORTLAND CEMENT		
PCC	PRECAST CONCRETE		
PED	PEDESTAL		
PERF	PERFORATED		
PERM	PERMANENT		
PERP	PERPENDICULAR		
PF	PLUMBING FIXTURE		
PFP	PREPARED FOR PAINT		
PIV	POST INDICATOR VALVE		
PL	PLATE;		
	PROPERTY LINE		
PLAS	PLASTER		
PLBG	PLUMBING		
PLY	PLYWOOD		
PMTL	PAINTED METAL		
PNT	POINT		
PP	POWER POLE		
PR	PAIR		
PREFAB	PREFABRICATE		
PRELIM	PRELIMINARY		
PRKG	PARKING		
PROP	PROPERTY		
PS	PROJECTOR SCREEN		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PT	PRESERVATIVE TREATED;		
	PRESSURE TREATED;		
	POST TENSIONED		
PTN	PARTITION		
PVC	POLYVINYL CHLORIDE;		
	POLYVINYL CHLORIDE PIPE		
PVD	PROVIDE		
PVG	PAVING		
PVR	PAVERS		
– Q –			
QTY	QUANTITY		
QTZ	QUARTZ		
– R –			
R	RISER;		
	RADIUS		
R/S	ROD & SHELF		
RA	RESTROOM ACCESSORY		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REBAR	REINFORCING BAR		
REC	RECESSED		
REF	REFERENCE;		
	REFRIGERATOR		
REINF	REINFORCE(D);		
	REINFORCING		
RES	RESILIENT		
REQD	REQUIRED		
RET	RETAINING		
REV	REVISED		
	REVISION		
RF	RAISED FLOOR(ING)		
RM	ROOM		
RO	ROUGH OPENING		
RP	RADIUS POINT		
RS	ROUGH SAWN		
RT	RIGHT		
RVL	REVEAL		
– S –			
S	SOUTH;		
	SINK		
SAN	SANITARY		
SC	SOLID CORE		
SCD	SEAT COVER DISPENSER		
SCHED	SCHEDULE		
SD	STORM DRAIN		
SEAL	SEALER;		
	SEALANT		
SECT	SECTION		
SEP	SEPARATION		
SF	SQUARE FEET		
SG	SAFETY GLASS;		
	SAFETY GLAZING		
SHR	SHOWER		
SHTG	SHEATHING;		
	SHEETING		
SHLV	SHELVING		
SIM	SIMILAR		
SM	SHEET METAL		
SOG	SLAB ON GRADE		
SOL	SOLID SURFACE		
STO	STONE		
SPEC	SPECIFICATION(S)		
SPKLR	SPRINKLER		
SPKR	SPEAKER		
SQ	SQUARE		
SQIN	SQUARE INCH		
SS	SERVICE SINK		
	SANITARY SEWER		

– S CONTINUED –			
SST	STAINLESS STEEL		
ST	STREET		
	STAIN		
STC	SOUND TRANSMISSION CLASS		
STD	STANDARD		
STL	STEEL		
STOR	STORAGE		
STRUCT	STRUCTURAL		
SU	SOILED UTILITY		
SUBFL	SUBFLOOR		
SUSP	SUSPENDED		
SW	SWITCH		
SYM	SYMMETRICAL		
– T –			
T	TREAD		
	TILE		
T&B	TOP AND BOTTOM		
T&G	TONGUE AND GROOVE		
TEL	TELEPHONE		
TEMP	TEMPORARY;		
	TEMPERATURE		
TER	TERRAZZO		
THK	THICK(NESS)		
TI	TENANT IMPROVEMENT		
TL	TOTAL LOAD		
TMPD	TEMPERED		
TO	TOP OF		
TOB	TOP OF BEAM		
TOC	TOP OF CURB;		
	TOP OF CONCRETE		
TOF	TOP OF FOOTING;		
	TOP OF FLOOR;		
	TOP OF FRAME		
TOS	TOP OF SLAB;		
	TOP OF STEEL		
TOW	TOP OF WALL		
TR	TRANSITION STRIP		
TV	TELEVISION		
TX	TEXTILES		
TYP	TYPICAL		
– U –			
UC	UNDERCOUNTER;		
	UNDERCABINET;		
	UNDERCUT		
UGND	UNDERGROUND		
UNO	UNLESS NOTED OTHERWISE		
UP	UTILITY POLE		
UTIL	UTILITY		
– V –			
V	VOLT(AGE)		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
VTO	VENT TO OUTSIDE		
VTR	VENT THROUGH ROOF		
– W –			
W	WASHING MACHINE;		
	WEST;		
	WIDE		
	WIDTH		
W/	WITH		
W/D	WASHER & DRYER		
W/O	WITHOUT		
WB	WALL BASE		
WC	WATER CLOSET;		
	WALL COVERING		
WCO	WINDOW COVERING		
WD	WOOD		
WDP	WALL/ DOOR PROTECTION		
WF	WIDE FLANGE		
WH	WATER HEATER		
WIC	WALK-IN CLOSET		
WIN	WINDOW		
WM	WIRE MOLD		
	WATER METER		
	WIRE MESH		
WO	WALK-OFF FLOORING		
WP	WORK POINT;		
	WATERPROOFING		
	WEATHERPROOF		
WPM	WATERPROOF MEMBRANE		
WR	WATER REPELLENT;		
	WATER RESISTANT		
WRB	WATER RESISTANT BARRIER		
WSCT	WAINSCOT		
WT	WEIGHT		
WWF	WELDED WIRE FABRIC		

SYMBOL LEGEND

–VIEW REFERENCE–

- BUILDING SECTION
- WALL SECTION: PARTIAL BUILDING SECTION
- DETAIL SECTION
- EXTERIOR ELEVATION
- INTERIOR ELEVATION
- ENLARGED PLAN DETAIL PLAN

–LINE STYLES–

- BUILDING SETBACK LINE
- CENTERLINE
- CLEARANCE
- ELEMENT BEYOND
- HIDDEN ELEMENT
- MATCH LINE (MATCH LINE / SEE 12 / A22.01)
- OVERHEAD ELEMENT
- PROPERTY LINE

–TAGS–

- CEILING TAG (CEILING / HEIGHT)
- DOOR TAG (100A)
- FINISH MATERIAL TAG (FIN-1)
- FLOOR TAG (F1)
- FURNITURE, FIXTURE EQUIPMENT TAG (EQP-1)
- GLAZING TAG (GL1)
- KEYNOTE (01)
- ROOF TAG (R1)
- ROOM TAG (ROOM NAME / 100)
- STOREFRONT TAG (S1)
- WALL TAG (01A)
- WINDOW TAG (W1)

–ANNOTATIONS–

- BREAK LINE
- ELEVATION LEVEL (LEVEL 1, 0'-0")
- GRID LINE
- NORTH ARROW (PLAN NORTH / TRUE NORTH)
- REVISION CLOUD W/ TAG
- SPOT ELEVATION

–CONSTRUCTION PHASE–

- EXISTING ELEMENT TO REMAIN
- DEMOLITION ELEMENT
- NEW CONSTRUCTION ELEMENT

–MATERIAL SYMBOLS & PATTERNS–

- ALUMINUM
- BATT INSULATION
- BLOCKING, SHIM
- BRICK (PLAN VIEW)
- CONCRETE
- CMU (PLAN VIEW)
- CONTINUOUS WOOD FRAMING
- EARTH BELOW GRADE
- GLASS (SECTION VIEW)
- GRAVEL
- GYPSUM WALL BOARD/ GYPSUM SHEATHING
- OUT OF PROJECT SCOPE
- PLYWOOD
- RIGID INSULATION
- STEEL
- WOOD

GENERAL NOTES

1. DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 24" X 36".
2. COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
3. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
4. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT AND OWNER FOR CLARIFICATION PRIOR TO BIDDING OR PERFORMING ANY WORK IN QUESTION.
5. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT AND OWNER FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION. SEE PROJECT SPECIFICATIONS.
6. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
7. GC TO COORDINATE FURNITURE, SIGNAGE, GRAPHICS, TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS WITH ARCHITECT, OWNER, AND OWNER'S VENDORS TYPICAL. UNO. NOTIFY OWNER AND ARCHITECT OF COORDINATION ISSUES PRIOR TO FABRICATION AND INSTALLATION.
8. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
9. DO NOT SCALE DRAWINGS. THE WRITTEN DIMENSIONS GOVERN. IN THE CASE OF A CONFLICT, NOTIFY THE ARCHITECT FOR CLARIFICATION.
10. PARTITIONS ARE DIMENSIONED FROM FACE OF STUD TO FACE OF STUD, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.
11. COORDINATE AND PROVIDE BACKING FOR MILLWORK AND EQUIPMENT ITEMS AS ATTACHED, MOUNTED OR BRACED TO WALLS OR CEILINGS.
12. DOORS SHALL BE TRIMMED AT THRESHOLD TO PROVIDE 1/4" MIN. 3/4" MAX. CLEARANCE (UNO) ABOVE FLOOR FINISH MATERIAL TO ALLOW FOR FULL DOOR SWING.
13. OPENING FORCE FOR INTERIOR SIDE-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED A 5 POUND FORCE. FOR OTHER SIDE-SWINGING, SLIDING AND FOLDING DOORS, DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND FORCE APPLIED TO THE LATCH SIDE.
14. DRAWINGS ARE THE PROPERTY OF RICE FERGUS MILLER AND HAVE BEEN PREPARED FOR THE USE IN THE EXECUTION OF THE ENCLOSED PROJECT. USE OR REPRODUCTION FOR AN OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF RICE FERGUS MILLER IS PROHIBITED

DRAWING INDEX

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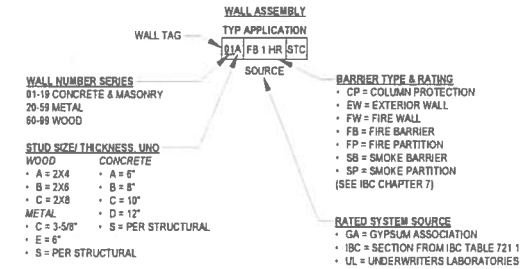
PROJECT # 2016106.11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021

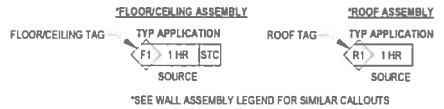
REVISION SCHEDULE		

DRAWING INDEX, GENERAL INFORMATION

SHEET #
A00.02

NOTES & LEGEND - ASSEMBLY TYPES



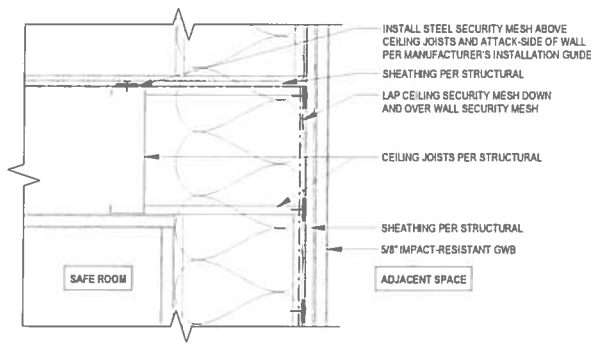


*SEE WALL ASSEMBLY LEGEND FOR SIMILAR CALLOUTS

RATED ASSEBLIES

TERMINATE FIRE RATED ASSEMBLIES AS DESCRIBED BELOW

EXTERIOR WALLS PER IBC 705
1 FIRE SEPARATION > 10 FT RATED FOR FIRE EXPOSURE FROM INSIDE
2 FIRE SEPARATION <10 FT RATED FOR FIRE EXPOSURE FROM BOTH SIDES



5 SAFE CEILING-WALL CONNECTION
3" = 1'-0"

BUILDING CODE SUMMARY, CONTINUED

MEANS OF EGRESS (CHAPTER 10)
SEE LIFE SAFETY PLAN FOR OCCUPANT LOAD CHART AND EGRESS INFORMATION

MEANS OF EGRESS SIZING (CHAPTER 1005)
SEE LIFE SAFETY PLAN AND DOOR SCHEDULE FOR EGRESS SIZING INFORMATION.

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

OCCUPANCY	MAXIMUM OCCUPANT LOAD OF SPACE	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (FT) WITH SPRINKLER SYSTEM
B	49	100 FT
F-1	49	
S-1	29	

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY	WITH SPRINKLER SYSTEM (FT)
BUSINESS B	300 FT
MODERATE-HAZARD FACTORY INDUSTRIAL F-1	250 FT
MODERATE-HAZARD STORAGE S-1	

PLUMBING SYSTEMS (CHAPTER 29)
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

B OCCUPANT LOAD = 82
- *41 MALES*
- *41 FEMALES*

TABLE 422.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

CLASSIFICATION	WATER CLOSETS		URINALS	LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
	MALE	FEMALE	MALE	MALE	FEMALE			
B	1 PER 1-50	3 PER 31-50	1 PER 1-100	1 PER 1-75	1 PER 1-50	-	1 PER 150	1 SERVICE SINK

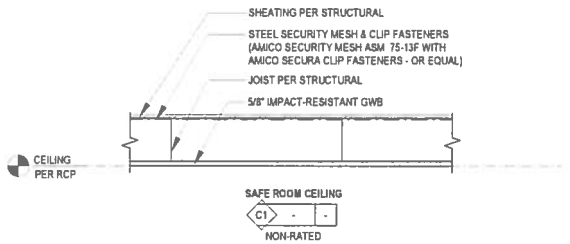
REQUIRED PLUMBING FIXTURE COUNT

OCCUPANCY	WATER CLOSETS		URINALS	LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
	MALE	FEMALE	MALE	MALE	FEMALE			
B	1	3	1	1	1	-	1	1 SERVIC

PROVIDED PLUMBING FIXTURE COUNTA

OCCUPANCY	WATER CLOSETS		URINALS	LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
	MALE	FEMALE	MALE	MALE	FEMALE			
B	4	4	SEE NOTE A	4	4	-	2B	1 SERVICE SINK

A. WATER CLOSETS AND LAVATORIES ARE PROVIDED WITHIN SINGLE USE TOILET FACILITIES, IN WHICH (4) ARE PROVIDED TO ACCOMMODATE EACH SEX.
B. TWO ELETRIC WATER COOLERS ARE PROVIDED - ONE IN THE WAITING ROOM, AND ANOTHER IN GROUP COUNSELING.



4 CEILING ASSEMBLY
NTS

TABLE 504.3 ALLOWABLE BUILDING HEIGHT ABOVE GRADE PLANE (FT)

OCCUPANCY CLASSIFICATION	SPRINKLER	TYPE III-B	EXISTING HEIGHT	PROPOSED HEIGHT
BUSINESS B	S	75 FT	22 FT	NO CHANGE TO EXISTING
MODERATE-HAZARD FACTORY INDUSTRIAL F-1				
MODERATE-HAZARD STORAGE S-1				

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	SPRINKLER	TYPE III-B	EXISTING NUMBER OF STORIES	PROPOSED NUMBER OF STORIES
BUSINESS B	S	4 STORIES	1	NO CHANGE TO EXISTING
MODERATE-HAZARD FACTORY INDUSTRIAL F-1		3 STORIES		
MODERATE-HAZARD STORAGE S-1		3 STORIES		

CONSTRUCTION TYPE (CHAPTER 6)
CONSTRUCTION CLASSIFICATION: TYPE III-B, FULLY SPRINKLERED

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENT (HOURS)

BUILDING ELEMENT	TYPE III-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS, EXTERIOR	2
BEARING WALLS, INTERIOR	0
NONBEARING WALLS AND PARTITIONS, EXTERIOR	SEE TABLE 602
NONBEARING WALLS AND PARTITIONS, INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

TABLE 602 FIRE-RESISTANCE RATING: EXTERIOR WALLS (HOURS)

FIRE SEPARATION DISTANCE = X (FT)	TYPE OF CONSTRUCTION	OCCUPANCY B	OCCUPANCY F-1 & S-1
X < 5	ALL	1	2
5 ≤ X < 10	TYPE III-B	1	1
10 ≤ X < 30	TYPE III-B	1	1
X ≥ 30	ALL	0	0

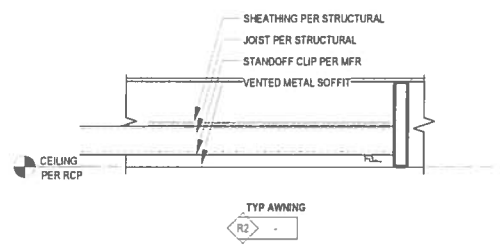
FIRE SEPARATION DISTANCE EXCEEDS 30'-0", THEREFORE, EXTERIOR WALLS DO NOT NEED TO BE RATED

FIRE AND SMOKE PROTECTION (CHAPTER 7)
EXISTING AUTOMATIC SPRINKLER SYSTEM PROVIDED THROUGHOUT BUILDING PER SECTION 903

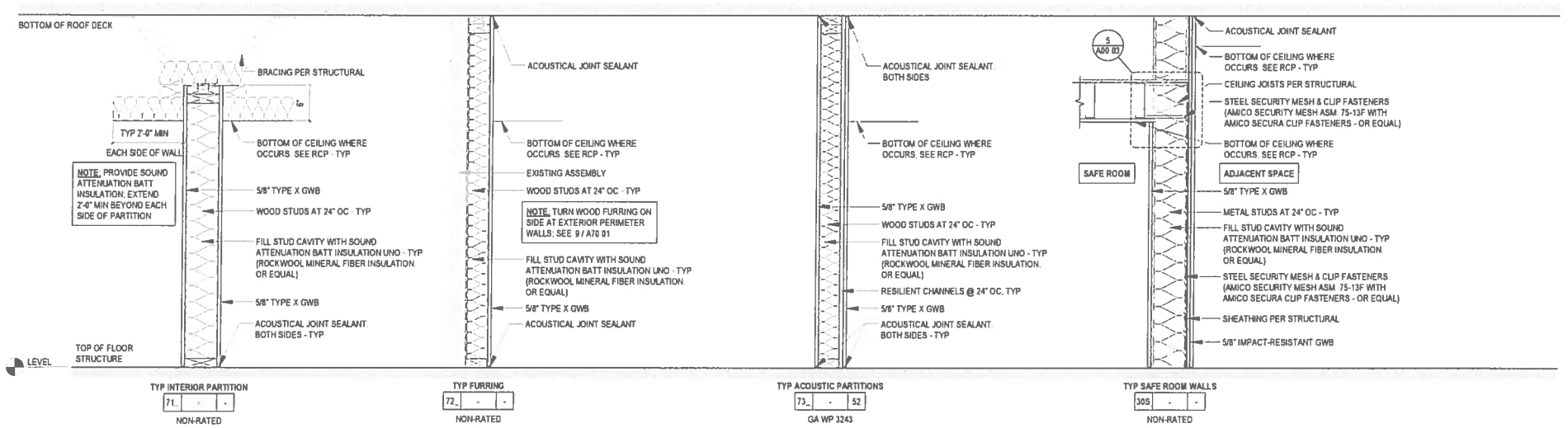
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)
SEE SPECIFICATIONS FOR CLASSIFICATION OF INTERIOR FINISH MATERIALS

TABLE 803.13 INTERIOR FINISH REQUIREMENTS BY OCCUPANCY

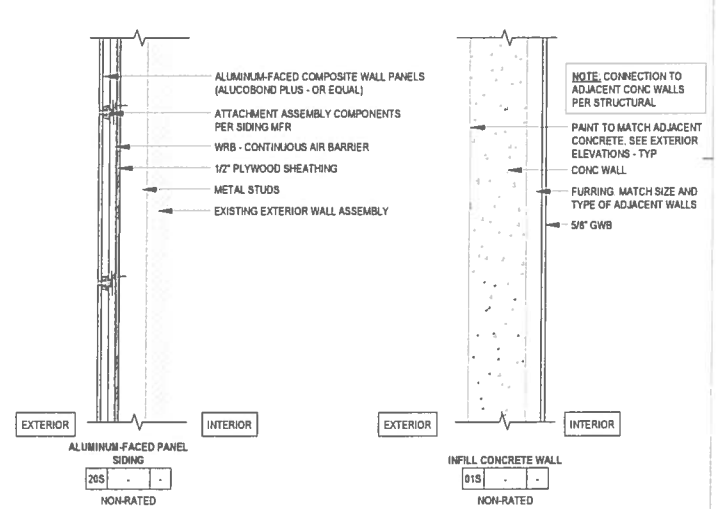
GROUP	SPRINKLERED		
	INTERIOR EXIT STAIRWAYS, RAMPS, PASSAGEWAYS	CORRIDORS, EXIT ENCLOSURES	ROOMS, ENCLOSED SPACES
BUSINESS B	B	C	C
MODERATE-HAZARD FACTORY INDUSTRIAL F-1	C	C	C
MODERATE-HAZARD STORAGE S-1	C	C	C



3 ROOF-CEILING TYPES
NTS



2 INTERIOR PARTITIONS
NTS



1 EXTERIOR WALL ASSEMBLIES
NTS

APPLICABLE CODES

(AS ADOPTED BY THE TULALIP TRIBES OF WASHINGTON)

WASHINGTON STATE AMENDMENTS
2015 WASHINGTON STATE ENERGY CODE (WSEC)
2015 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL EXISTING BUILDING CODE (IBC)
2015 INTERNATIONAL MECHANICAL CODE (IMC)
2015 INTERNATIONAL FIRE CODE (IFC)
2015 UNIFORM PLUMBING CODE (UPC)
2015 INTERNATIONAL FUEL GAS CODE (IFGC)
2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2009 ICC A117.1 ACCESSIBILITY STANDARD

DEFERRED SUBMITTALS

<TBD>

SEISMIC & RISK CATEGORY

SEISMIC ZONE D
RISK CATEGORY II

FIRE DISTRICT

FIRE DISTRICT #12
1094 CEDAR AVE.
MARYSVILLE WA 98270

BUILDING CODE SUMMARY

BUILDING USE
IN-SCOPE:
- OUTPATIENT CLINIC & OFFICES WHICH OCCUPY THE SOUTHEAST PORTION OF THE BUILDING.

NOT IN SCOPE:
- FABRICATION WORKSHOP. WHICH OCCUPIES THE SOUTHWEST PORTION OF THE BUILDING
- STORAGE. WHICH OCCUPIES THE NORTHERN PORTION OF THE BUILDING.

OCCUPANCY CLASSIFICATION AND USE (CHAPTER 3)
OCCUPANCY CLASSIFICAITONS:
- BUSINESS GROUP B — *OUTPATIENT CLINIC & OFFICES*
- MODERATE-HAZARD FACTORY INDUSTRIAL F-1 — *FABRICATION WORKSHOP*
- MODERATE-HAZARD STORAGE S-1 — *STORAGE*

GENERAL BUILDING HEIGHTS AND AREAS (CHAPTER 5)
EXISTING BUILDING HEIGHT = +/- 22'-0"
EXISTING BUILDING AREA = 69 308 SF
- NEW OUTPATIENT CLINIC & OFFICES = 6 324 SF
- EXISTING FABRICATION WORKSHOP = 8 024 SF
- EXISTING STORAGE = 45 960 SF

NO FIRE SEPARATION IS REQUIRED BETWEEN B, F-1, AND S-1 OCCUPANCIES, PER IBC TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES (HOURS).

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PROJECT # 2016106.11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

CODE SUMMARY & ASSEMBLY TYPES

SHEET #
A00.03

DATE/ TIME PRINTED: 6/17/2021 5:17 PM
P:\Seat\21Jobs\210223 Tulalip Mat Dosing Clinic\0 0 Dwgs\C\210223 STANDARD NOTES.dwg

GENERAL NOTES

1 STANDARD SPECIFICATIONS - WORK AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. LOCAL JURISDICTION NOTES, SPECIFICATIONS & STANDARDS SHALL TAKE PRECEDENCE IF THERE IS A CONFLICT BETWEEN THE NOTES & SPECIFICATIONS INCLUDED ON THE PLANS AND THE JURISDICTIONAL SPECIFICATIONS. IF STANDARDS ARE NOT PROVIDED BY THE AUTHORITIES HAVING JURISDICTION, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST CURRENT VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) EXCEPT AS MODIFIED OR SUPERSEDED BY THE LOCAL DEVELOPMENT GUIDELINES & DESIGN AND CONSTRUCTION STANDARDS. THE UNIFORM BUILDING CODES; PERMIT CONDITIONS AND ALL OTHER APPLICABLE CODES, ORDINANCES, STANDARDS, AND POLICIES. THE STANDARD PLANS AND STANDARD SPECIFICATIONS (WSDOT/APWA) MAY BE OBTAINED FROM THE OFFICE OF PRE-CONTRACT ADMINISTRATION AT THE HIGHWAY ADMINISTRATION BUILDING, OLYMPIA, WASHINGTON 98504, OR BY TELEPHONE ORDER (360) 705-7835.

2 PRE-CONSTRUCTION MEETING - A PRE-CONSTRUCTION MEETING MAY BE REQUIRED BY THE OWNER, OWNER'S REPRESENTATIVE, UTILITY SERVICE PROVIDERS AND/OR AUTHORITIES HAVING JURISDICTION (AHJ). CONTRACTOR TO COORDINATE WITH THESE PARTIES AND SCHEDULE PRE-CONSTRUCTION MEETINGS AS REQUIRED

3 GEOTECHNICAL INFORMATION - A GEOTECHNICAL REPORT HAS NOT BEEN PREPARED FOR THIS PROJECT SITE.

4 ARBORIST REPORT - ARBORIST REPORT HAS NOT BEEN PREPARED FOR THIS PROJECT SITE

5 EXISTING CONDITIONS - TOPOGRAPHIC OR BOUNDARY SURVEY HAS NOT BEEN PREPARED FOR THIS PROJECT. ALL EXISTING STRUCTURES, SITE FEATURES, AND UTILITIES ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FILED PRIOR TO CONSTRUCTION. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REQUIRED ELEVATIONS AT THE SUBJECT SITE, AND VERIFY THE LOCATION AND SIZE OF EXISTING UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION ACTIVITIES, INCLUDING UNDERGROUND AND OVERHEAD UTILITIES, UTILITY STRUCTURES, POINTS OF CONNECTION, AND UTILITY CROSSINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR EXCEPTIONS ENCOUNTERED PRIOR TO PROCEEDING. THE CONTRACTOR SHALL OBTAIN ADDITIONAL UTILITIES INFORMATION FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL COORDINATE WITH THE PUBLIC AND PRIVATE UTILITIES TO DETERMINE THE WORK AND INSPECTIONS NECESSARY TO DISCONNECT, CUT, CAP, ABANDON, RELOCATE, OR REPAIR THEIR FACILITIES. ANY COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS, PRIOR TO BEGINNING CONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.

6 UTILITY LOCATION - IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THESE DRAWINGS. PRIOR TO STARTING CONSTRUCTION, CONTACT ONE-CALL (1-800-424-5555) FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE STARTING PROJECT SITE WORK. NOTIFY THE UTILITIES INSPECTOR AT 206-433-0179. REQUEST A PUBLIC WORKS UTILITY INSPECTION AT LEAST 24 HOURS IN ADVANCE BY CALLING 206-433-0179. CONTRACTOR TO LOCATE AND DETERMINE DEPTH OF EXISTING UTILITIES AND THE ENGINEER OF ANY CONFLICTS BETWEEN EXISTING FEATURES AND THE PLACEMENT OF NEW FACILITIES.

7 FIELD VERIFICATION - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATION OF ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK.

8. DRAWINGS - A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE DRAWINGS INDICATE LOCATIONS, DIMENSIONS, REFERENCES, AND TYPICAL DETAILS OF CONSTRUCTION. NOT EVERY DETAIL OF THE CONSTRUCTION IS SHOWN ON THESE DRAWINGS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL REVIEW THE DRAWINGS PRIOR TO STARTING CONSTRUCTION AND BRING ALL PROBLEMS IMMEDIATELY TO THE ATTENTION OF THE ENGINEER IN ORDER TO AVOID DELAYS.

9 ELECTRONIC CAD FILES - AN ELECTRONIC CAD VERSION OF THIS PLAN SET IS AVAILABLE FROM COFFMAN ENGINEERS, UPON REQUEST.

10 ADDITIONAL DOCUMENTS - REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING CONSTRUCTION OF STRUCTURES, ENCLOSURES, STAIRS, SIDEWALKS/PATHS, LANDINGS/PATIOS, FENCING, RAILING, AND GATES.

11 RECORD DRAWINGS - RECORD DRAWINGS IDENTIFYING AND ACCURATELY LOCATING SUBSURFACE UTILITIES AND IMPROVEMENTS AND NOTING AS-CONSTRUCTED CONDITIONS SHALL BE PROVIDED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.

12 JOB SITE SAFETY - THE CONTRACTOR SHALL CONDUCT ALL WORK IN A SAFE MANNER AS REQUIRED BY ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS. THE ENGINEER HAS NOT BEEN RETAINED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS, OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM THEIR WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER SHALL NOT BE CONSTRUED AS THE SUPERVISION OF ACTUAL CONSTRUCTION, NOR MAKE THE ENGINEER RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES OR EMPLOYEES OF SUPPLIERS OR SUBCONTRACTORS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY PERSON. SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

13 WORKMANSHIP - THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND IN CONFORMANCE WITH APPLICABLE CODES, REGULATIONS AND PERMIT REQUIREMENTS.

14 LICENSURE - THE CONTRACTOR SHALL HAVE THE APPROPRIATE LICENSES TO PERFORM THE SPECIFIED WORK IN CONFORMANCE WITH THE AUTHORITIES HAVING JURISDICTION.

15 TRAFFIC CONTROL & SAFETY - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL ON-SITE AND SHALL COORDINATE THEIR ACTIVITIES WITH THE OWNER AND ENGINEER A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE BEGINNING OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL SIGNS. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION. SHUTDOWN OF OWNER OPERATION OR ACCESS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. COORDINATE REQUIREMENTS WITH THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL MAINTAIN ALL SIGNS, BARRICADES, WARNING LIGHTS, AND OTHER DEVICES NECESSARY FOR SAFETY.

16 PERMITTING - THE CONTRACTOR SHALL OBTAIN ALL LOCAL, STATE AND FEDERAL PERMITS REQUIRED FOR THE WORK IN ADDITION TO THOSE OBTAINED BY THE OWNER. THE CONTRACTOR SHALL CONDUCT ALL WORK IN CONFORMANCE WITH THE VARIOUS LOCAL, STATE AND FEDERAL PERMITS AND APPROVALS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION TO CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS.

17 ADA STANDARDS - CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) 2010.

18. PROTECTION OF PROPERTY - THE CONTRACTOR SHALL PROTECT FROM DAMAGE OR DESTRUCTION TO PRIVATE AND PUBLIC PROPERTY ON OR IN THE VICINITY OF THE WORK THAT IS NOT SCHEDULED FOR REPAIR, REPLACEMENT OR REMOVAL, AND SHALL ENSURE THAT INTERFERENCE WITH THE USE OF SUCH PROPERTY IS MINIMIZED.

19 DAMAGE DURING CONSTRUCTION - ANY EXISTING PUBLIC OR PRIVATE IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN A MATTER TO BE APPROVED BY THE LOCAL JURISDICTION, APPROPRIATE UTILITY OWNER OR OWNER. IF ROADWAY PAVEMENT MUST BE BROKEN, THE LOCAL TRANSPORTATION DEPARTMENT WILL EITHER REPAIR THE STREET AND BILL THE CONTRACTOR FOR THIS WORK, OR ALLOW THE CONTRACTOR TO COMPLETE THESE REPAIRS TO THEIR STANDARDS. ALL DISTURBED PROPERTY AND VEGETATION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AS SPECIFIED.

20 EXCAVATION & BACKFILL - SAFE EXCAVATION & BACKFILL PRACTICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO REGULATIONS ESTABLISHED BY PERTINENT STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH AGENCIES. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN SAFETY SYSTEMS THAT MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (RCW CHAPTER 49.17 INCLUDING WAC CHAPTER 296-155). EXCAVATIONS DEEPER THAN 4-FEET MUST BE SHORED, SHEETED, BRACED, SLOPED OR SUPPORTED BY A MEANS OF SUFFICIENT STRENGTH TO PROTECT EMPLOYEES AND BE IN ACCORDANCE WITH WAC 296-155, PART N. EXCAVATIONS DEEPER THAN 20-FEET MUST INCLUDE A PROTECTION SYSTEM DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF WASHINGTON IN ACCORDANCE WITH WAC 296-155-657. EXCAVATION MATERIALS ARE TO BE STORED AT LEAST 2-FEET FROM THE EDGE OF THE EXCAVATION OR TRENCH WHEN EMPLOYEES ARE WORKING IN THE EXCAVATION. SITE DEVICES MAY BE REQUIRED TO PREVENT THE MATERIAL FROM FALLING OR ROLLING INTO THE EXCAVATION. WHEN TRENCHES OR OTHER EXCAVATIONS ARE WITHIN 4-FEET OF PUBLIC PROPERTY, BARRICADES MUST BE SET UP FOR PUBLIC SAFETY, AND THE EXCAVATION MUST BE COVERED WHEN WORK IS NOT IN PROGRESS.

21 EXCAVATION SPOILS - ALL EXCAVATION SPOILS SHALL BE DISPOSED OF AT AN APPROVED OFFSITE LOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON DISPOSAL OF EXCAVATION SPOILS.

22 EXCAVATION AND SHORING - ANY EXCAVATION & SHORING SHOWN WITHIN THIS PLAN SET IS FOR CONCEPTUAL DESIGN INFORMATION ONLY. ALL VERTICAL SHORING WALLS REQUIRED FOR THE BUILDING EXCAVATION SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. ALL EXCAVATION AND SHORING SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER AND SHALL CONFORM TO THE REGULATIONS ESTABLISHED BY PERTINENT STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH AGENCIES. ALL SHORING MEASURES AND EXCAVATION METHODS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF WASHINGTON. EXCAVATION AND SHORING MEASURES ARE NOT SHOWN ON THESE PLANS, BUT WILL BE REQUIRED TO ENSURE A SAFE WORKING ENVIRONMENT AND TO PROTECT NEIGHBORING PROPERTIES & EXISTING SITE FEATURES.

23 STAKING - CONSTRUCTION STAKING FOR CURB AND GUTTER, PAVEMENT GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT SHALL BE PROVIDED BY A SURVEYING OR ENGINEERING FIRM CAPABLE OF PERFORMING SUCH WORK.

24. ENVIRONMENTAL PROTECTION - EROSION CONTROL MEASURES SEPARATE FROM THOSE SPECIFIED AS PART OF THIS PLAN SET MAY BE REQUIRED FOR ADDITIONAL IMPLEMENTATION DUE TO FUTURE UNFORESEEN WEATHER OR SITE CONDITIONS, OR IF THE PRESCRIBED MEASURES DO NOT FUNCTION AS INTENDED, OR IF THE AUTHORITIES HAVING JURISDICTION DETERMINE THAT THE PRESCRIBED MEASURES ARE INADEQUATE. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK AREA AT ALL TIMES BY SWEEPING. WASHING OF PAVEMENT WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE OWNER.

TEMPORARY EROSION & SEDIMENT CONTROL NOTES (CSWPPP)

1 SCHEDULE - ALL REQUIRED SEDIMENTATION / EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS AND ADJACENT PROPERTIES IS PREVENTED. THE TESC FACILITIES SHALL BE MAINTAINED UNTIL PERMANENT EROSION CONTROL (PAVING, STRUCTURE, RE VEGETATION WITH TREES, SHRUBS, GROUND COVER, ETC.) PER THE APPROVED PLANS IS IN PLACE.

2 IMPLEMENTATION - THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE TESC FACILITIES IN COORDINATION WITH THE APPROVED PLANS AND/OR SWPPP IS THE RESPONSIBILITY OF THE CONTRACTOR / TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED AND SITE IS PERMANENTLY STABILIZED. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THIER ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.

3 INSPECTIONS BY CONTRACTOR - THE TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR DAILY AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING UNTIL ALL CONSTRUCTION IS APPROVED AND THE SITE HAS STABILIZED.

4 BEST MANAGEMENT PRACTICES (BMPS) - ALL TESC FACILITIES SHALL CONFORM TO THE BEST MANAGEMENT PRACTICES LISTED IN THE CURRENT EDITION OF THE DEPARTMENT OF ECOLOGY STORMWATER MANAGMENT MANUAL FOR WESTERN WASHINGTON AND THE APPROVED SWPPP.

5 MINIMUM REQUIREMENTS - THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THESE DRAWINGS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS AND SEQUENCING OF TESC MEASURES AND ENSURING WATER QUALITY REQUIREMENTS ARE MET.

6. APPROVALS - APPROVAL OF THIS TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.), BUT IS AN APPROVAL OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLANS ONLY. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, INCLUDING OBTAINING THE APPROPRIATE PERMITS AND APPROVALS.

7 CLEARING LIMITS / LIMITS OF WORK - THE BOUNDARIES OF THE CLEARING LIMITS SHOW ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF ORANGE PROTECTION FENCING PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR / TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.

8 CONSTRUCTION SEQUENCE - THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL (ESC) PROBLEMS:

- STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
- CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MEASURES (BMPS);
- INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
- CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
- CLEAR, GRUB AND GRADE SUBJECT SITE;
- TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, SUBJECT SITE IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
- CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (SUCH AS INLETS, PONDS, UNDERGROUND INJECTION CONTROL (UIC) FACILITIES, ETC.);
- PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
- INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND
- REMOVE TEMPORARY ESC CONTROLS WHEN:
- PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
- ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND
- VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.

9 EXISTING VEGETATED AREAS - RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.

10 DUST CONTROL - CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.

11 ADJACENT PROPERTIES - ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.

12 DEWATERING - DESIGN, PREPARE AND OBTAIN PERMITS FOR TEMPORARY DEWATERING. TREAT AND DISPOSE OF WATER FROM TEMPORARY DEWATERING FACILITIES IN ACCORDANCE WITH AHJ.

13 STREET INSPECTION & CLEANING - INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, IMMEDIATE CLEANING IS REQUIRED. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.

14. CONCRETE BY-PRODUCTS - PROVIDE A DESIGNATED, POSTED CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT SHALL NOT BE ALLOWED TO DRAIN OFF THE SITE OR INTO ANY EXISTING OR FUTURE STORM DRAINAGE FACILITIES. HARDENED CONCRETE WASHOUT SHALL BE BROKEN UP AND REMOVED FROM THE SITE. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS EITHER NEAR OR INTO NATURAL OR CONSTRUCTED STORM DRAINAGE SYSTEMS. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM DRAINAGE SYSTEM, IT COULD MEAN RECLEANING THE ENTIRE DOWNSTREAM SYSTEM, OR POSSIBLY RELAYING THE STORM LINE.

15. TREE PROTECTION - TREE PROTECTION TO BE INSTALLED PER THE ARBORIST REQUIREMENTS. REFER TO THE TREE PROTECTION SPECIFICATIONS ON SHEET UB-3 AND THE ARBORIST REPORT FOR ADDITIONAL CARE, PROTECTION AND RESTORATION MEASURES.

16. SOURCE CONTROL OF CONSTRUCTION DEBRIS & CHEMICALS - APPLICABLE SOURCE CONTROL MEASURES PER THE CURRENT EDITION OF THE WASHINGTON DEPARTMENT OF ECOLOGY'S STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON SHALL BE IMPLEMENTED DURING CONSTRUCTION. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 OF THE WASHINGTON ADMINISTRATIVE CODE (WAC) FOR THE DEFINITION OF INERT WASTE). USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.

17 VEHICLE MAINTENANCE - CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT/DE-GREASING OPERATIONS, FUEL TANK DRAIN-DOWN/REMOVAL, IN ADDITION TO OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF, BY USING SPILL COLLECTION DEVICES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT, AND DISPOSE OF CONTAMINATED MATERIALS PER LOCAL REGULATIONS. IF RAINFALL OCCURS ON EQUIPMENT OR VEHICLE WITH RECENT CONTAMINANT LEAK, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE THAT COLLECTS ALL CONTAMINATED RUNOFF.

18 CHEMICAL CONTROL & APPLICATION - CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBIT THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE IN-SITU BMPS.

19 STABILIZATION OF DISTURBED AREAS - ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED WITH MULCHING, GRASS PLANTING, PLASTIC COVERING OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE EXPOSED SOIL CONDITIONS AND THE TIME OF YEAR IN QUESTION. FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THRU SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE CONTRACTOR, BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT AS APPROVED BY THE LOCAL JURISDICTION.

20 TEMPORARY STOCKPILES - TEMPORARY STOCKPILES SHALL BE STABILIZED WITH MULCHING, GRASS PLANTING, POLYETHYLENE SHEETING, OR OTHER APPROVED MEASURES. THE TOE OF ALL STOCKPILES SHALL HAVE A FILTER FABRIC FENCE TO PROTECT ADJACENT PROPERTIES FROM SEDIMENTATION AND EROSION AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM. STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2H:1V SLOPE.

21 CONSTRUCTION ENTRANCE - THE EXISTING PAVEMENT IS TO BE USED AS THE CONSTRUCTION ENTRANCE. IF NECESSARY, THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY CONSTRUCTION ENTRANCE IN CONFORMANCE WITH THE DETAIL INCLUDED IN THIS PLAN SET. MATERIAL SHALL BE QUARRY SPALLS, 4 INCHES TO 8 INCHES IN SIZE. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. CONSTRUCTION EQUIPMENT SHALL BE CLEANED OF ALL DIRT AND DEBRIS BEFORE ENTERING THE PUBLIC STREET.

22 SEDIMENTATION TANK - IF NEEDED FOR SEDIMENT REMOVAL, A PORTABLE SEDIMENT STORAGE TANK SHALL BE USED FOR WATER QUALITY TREATMENT DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE HAS BEEN STABILIZED AND THE PERMANENT STORMWATER FLOW CONTROL AND WATER QUALITY FACILITIES ARE OPERATIONAL AND CAN BE PROTECTED FROM SEDIMENTATION FROM ONSITE CONSTRUCTION.

23. STRAW MULCH - WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2-INCHES.

24 SEEDING - WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).

25 HYDROSEED - WHERE HYDROSEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, A SEED-MULCH-FERTILIZER MIXTURE SHALL BE USED AS RECOMMENDED BY THE SUPPLIER AND APPROVED BY THE LOCAL JURISDICTION.

26 STORM DRAIN INLET PROTECTION - ANY CATCH BASINS, INLETS, OR TRENCH DRAINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE STORM DRAIN INLET PROTECTION PER THE CATCH BASIN INSERT DETAIL SHOWN ON THIS PLAN SET. INSERTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THAT ALL CONSTRUCTION IS APPROVED AND THE SITE HAS BEEN STABILIZED.

27 SEDIMENT ACCUMULATION - AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A SEDIMENT FILTER THAT IS INSTALLED WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING ACTIVITIES. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM. ACCUMULATED SEDIMENTS SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE LOCAL JURISDICTION. ALL CATCH BASINS AND SEDIMENT FILTERS SHALL BE INSPECTED FOR COMPLIANCE DAILY AND WITHIN 24 HOURS OF A RAINFALL EVENT.

28. FILTER SOCKS - FILTER SOCKS SHALL BE ULTRATECH FILTER SOCKS FOR SEDIMENT REMOVAL, OR APPROVED EQUAL. SOCKS TO BE PLACED ON THE DOWNSTREAM EDGES OF THE WORK AREA AND USED TO PREVENT SEDIMENT LADEN WATER FROM DRAINING TO THE DOWNSTREAM SYSTEM.

DEMOLITION NOTES

1 CLEARING, GRUBBING & DEMOLITION - ALL CLEARING, GRUBBING AND DEMOLITION SHALL BE PERFORMED IN CONFORMANCE TO THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE CURRENT EDITION OF THE UNIFORM BUILDING CODE. THE STRIPPED DEBRIS SHALL NOT BE MIXED WITH MATERIALS TO BE USED AS STRUCTURAL FILL. CONDUCT DEMOLITION ACTIVITIES AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKWAYS, AND OTHER ADJACENT FACILITIES.

2 HAZARDOUS MATERIALS - IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND OWNER.

3 EXISTING VEGETATION - REMOVE TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REFER TO LANDSCAPE PLANS FOR TREE PROTECTION AND TREE REMOVAL PROCEDURES TO PRESERVE HEALTH OF ADJACENT TREES.

4. DISPOSAL - REMOVE DEMOLITION WASTE MATERIALS AND DEBRIS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

5 DEMOLITION & DISPOSAL - THE REMOVAL AND DISPOSAL OF ALL FOUNDATIONS, STRUCTURES, PIPING, FENCES, AND OTHER OBSTRUCTIONS SHALL BE DONE IN ACCORDANCE WITH SECTION 2-02 OF THE APWA/WSDOT STANDARD SPECIFICATIONS.

6 PROTECTION OF PROPERTY - THE CONTRACTOR SHALL PROTECT FROM DAMAGE OR DESTRUCTION PRIVATE AND PUBLIC PROPERTY ON OR IN THE VICINITY OF THE WORK THAT IS NOT SCHEDULED FOR REPAIR, REPLACEMENT OR REMOVAL AND SHALL ENSURE THAT INTERFERENCE WITH THE USE OF SUCH PROPERTY IS MINIMIZED.

7 REMOVAL OF STRUCTURES & OBSTRUCTIONS - THE REMOVAL AND DISPOSAL OF ALL BUILDINGS, FOUNDATIONS, STRUCTURES, FENCES, AND OTHER OBSTRUCTIONS SHALL BE DONE IN ACCORDANCE WITH SECTION 2-02 OF THE APWA/WSDOT STANDARD SPECIFICATIONS. REFER TO THE ARCHITECT'S PLANS & SPECIFICATIONS PRIOR TO ANY DEMOLITION WORK FOR DEMOLITION & DISPOSAL DETAILS.

8. REMOVAL OF PAVEMENT, SIDEWALKS AND CURBS - ALL REMOVAL OF PAVEMENT, SIDEWALKS AND CURBS SHALL BE PERFORMED IN CONFORMANCE WITH SECTION 2-02 3(3) OF THE STANDARD SPECIFICATIONS. ASPHALT CONCRETE SHALL BE SAWCUT FOR A SMOOTH TRANSITION. CONCRETE WALKS AND CURBS SHALL BE SAWCUT OR REPLACED TO AN EXISTING JOINT.

9 EXISTING UTILITIES - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANIES FOR SCHEDULING, DISCONNECTING, AND CAPPING OF THE EXISTING UTILITIES. EXISTING UTILITY WORK SHALL BE IN CONFORMANCE WITH SECTION 2-02 OF THE STANDARD SPECIFICATIONS. ALL CAPPED UTILITIES SHALL BE CLEARLY MARKED WITH AN ABOVE GRADE MARKER.

10 SAFETY FENCING - TEMPORARY 6' HIGH CHAIN LINK FENCE SHALL BE PLACED AROUND THE SITE AND/OR EXCAVATION AREA AS NECESSARY TO PROTECT PEDESTRIANS AND PROVIDE SITE SAFETY WHILE DEMOLITION AND CONSTRUCTION IS IN PROGRESS. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE PROTECTION MAY BE NECESSARY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INSURE SAFETY OF THE PUBLIC AT ALL TIMES.

11 SALVAGE - TO THE MAXIMUM EXTENT POSSIBLE, THE CONTRACTOR SHALL SALVAGE AND REUSE ALL CATCH BASIN FRAMES, GRATES, COVERS, MANHOLE LIDS AND ANY OTHER EXISTING METAL WORKS IN PAVEMENTS DESIGNATED FOR REMOVAL / REPLACEMENT. ALL SALVAGEABLE MATERIAL CREATED DURING DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY HEREIN OR THE OWNER.

12 REGULATORY COMPLIANCE - COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION. COORDINATE DEMOLITION OPERATIONS AND ANY REQUIRED UTILITY RELOCATIONS WITH THE OWNER AND APPROPRIATE UTILITY PURVEYOR, INCLUDING REQUIREMENTS AND SCHEDULING.

13. COORDINATION AND UNKNOWNS - COORDINATE EXTENT OF DEMOLITION WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL REVIEW THE PROJECT LIMITS TO DETERMINE THE QUANTITY AND TYPE OF DEMOLITION WASTE MATERIAL AND DEBRIS TO BE INCLUDED IN THEIR BID. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, AND RELOCATING IF NECESSARY, ANY ITEMS NOT OTHERWISE NOTED THAT CONFLICT WITH THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTING ITEMS NOT SHOWN ON THE PLANS THAT MUST BE REMOVED OR RELOCATED. FAILURE TO NOTIFY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF COST RESPONSIBILITY FOR REMOVING REQUIRED ITEMS.

GRADING AND PAVING NOTES

1. STANDARD PLANS AND SPECIFICATIONS - ALL GRADING AND PAVING MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST CURRENT VERSION OF THE STANDARD PLANS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, PREPARED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, EXCEPT AS MODIFIED OR SUPERSEDED BY THE LOCAL JURISDICTION.

2. GRADING - FINAL SITE GRADING MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AND PROVIDE POSITVE DRAINAGE TO STORMWATER COLLECTION SYSTEM. ANY GRADING WITHIN CRITICAL ROOT ZONE SHALL BE UNDER THE DIRECTION OF THE ARBORIST.

3. MINIMUM SLOPE - ALL DRIVE AREAS SHALL HAVE POSITIVE DRAINAGE TO THE COLLECTION/CONVEYANCE SYSTEM AT 1% MINIMUM SLOPE FOR ASPHALT, 0.5% MINIMUM SLOPE FOR CONCRETE. PLAN DETAILS SHALL NOT SUPERSEDE THIS REQUIREMENT.

4 EXCAVATION & BACKFILL - SAFE EXCAVATION, BACKFILL & BORROWING ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE WSDOT/APWA STANDARD SPECIFICATIONS AND TO REGULATIONS ESTABLISHED BY PERTINENT STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH AGENCIES.

5 COMPACTION - SUBGRADES SHALL BE PREPARED IN CONFORMANCE WITH DIVISION 2-06 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. STRUCTURAL FILL SHALL BE PLACED IN THIN HORIZONTAL LIFTS NOT EXCEEDING TWELVE (12) INCHES IN LOOSE THICKNESS. EACH LIFT MUST BE COMPACTED TO AT LEAST 95 PERCENT OF LABORATORY MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM TEST DESIGNATION D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF THE SOIL AT THE TIME OF COMPACTION SHOULD BE WITHIN TWO PERCENT OF ITS OPTIMUM, AS DETERMINED BY ASTM D-698. IN NON-STRUCTURAL AREAS OR FOR BACKFILL IN UTILITY TRENCHES BELOW A DEPTH OF FOUR FEET, THE DEGREE OF COMPACTION MAY BE REDUCED TO 90 PERCENT. HAND OPERATED COMPACTION EQUIPMENT SHOULD BE USED WITHIN FIVE (5) FEET OF ALL STRUCTURES. REFER TO THE GEOTECHNICAL REPORT BY GEOTECH CONSULTANTS, INC. FOR MORE DETAILED INFORMATION.

6 STRUCTURAL FILL - SITE SOILS ARE NOT RECOMMENDED FOR STRUCTURAL FILL UNLESS IT IS INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL STRUCTURAL FILL SHALL BE FREE OF ORGANIC MATERIAL, DEBRIS, AND OTHER DELETERIOUS MATERIALS. STRUCTURAL FILL SHALL CONSIST OF FREE-DRAINING IMPORTED PIT RUN SAND AND GRAVEL, OR AN EQUIVALENT APPROVED MATERIAL. REFER TO THE SOILS REPORT FOR FURTHER SPECIFICATIONS.

7 CUT & FILL SLOPES - NO FINAL CUT OR FILL SLOPE SHALL EXCEED SLOPES OF TWO (2) HORIZONTAL TO ONE (1) VERTICAL WITHOUT STABILIZATION BY AN ENGINEERED EARTH RETAINING STRUCTURE.

8. MATCHING EXISTING PAVEMENTS & STRUCTURES - THE CONTRACTOR SHALL VERIFY THE LOCATIONS, WIDTHS, THICKNESSES, AND ELEVATIONS OF ALL EXISTING PAVEMENTS AND STRUCTURES THAT ARE TO INTERFACE WITH NEW WORK. PROVIDE ALL TRIMMING, CUTTING, SAW CUTTING, GRADING, LEVELING, SLOPING, COATING, AND OTHER WORK INCLUDING MATERIALS AS NECESSARY TO CAUSE THE INTERFACE WITH EXISTING WORKS TO BE PROPER, ACCEPTABLE TO THE ENGINEER AND THE LOCAL JURISDICTION, COMPLETE IN PLACE AND READY TO USE. CONTRACTOR SHALL MEET AND MATCH EXISTING ELEVATIONS OF STREET, RIGHT-OF-WAY AND PROPERTY LINES AND AT LIMITS OF GRADING WORK.

9 DOOR THRESHOLDS - ALL EXTERIOR DOOR THRESHOLDS SHALL NOT EXCEED 1/2" IN ELEVATION CHANGE FROM TOP OF PAVEMENT TO FINISHED FLOOR ELEVATION. ANY EXTERIOR DOOR THRESHOLD THAT EXCEEDS 1/4" SHALL HAVE A 1:2 (MAX) BEVELED EDGE FOR THE THRESHOLD ABOVE 1/4" PER 2010 ADAAG.

16 DOOR APPROACHES - THE RUNNING- AND CROSS- SLOPES AT DOOR APPROACHES SHALL NOT EXCEED 2.0% FOR A DISTANCE OF 5-FEET IN FRONT OF THE DOOR. SEE 2010 ADAAG 404.2.4 FOR ADDITIONAL DETAILS.

17 CEMENT CONCRETE PAVEMENT - THE CONCRETE PAVEMENT SHALL BE AIR-ENTRAINED, CLASS 3000 (3000 PSI MIN) IN CONFORMANCE WITH THE REQUIREMENTS OF DIVISION 6-02 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. POLYPROPELENE FIBERS (MIN 1-1/2 POUNDS PER CY) SHALL BE ADDED TO THE MIX TO REDUCE CRACKING. THE WATER CEMENT RATIO SHALL BE MAXIMUM 0.45. CURE FOR 7 DAYS WITH WATER MIST. PROVIDE ZIP KEY CRACK CONTROL JOINTS (BY BURKE) EVERY 12 TO 15 FEET ON CENTER. CONCRETE PAVEMENT SHALL BE SIX (6) INCHES MINIMUM OF CLASS 3000 CONCRETE OVER FOUR (4) INCHES MINIMUM OF CRUSHED SURFACING TOP COURSE. CONCRETE MATERIALS, WORK, CURING AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF DIVISION 6-02 OF THE STANDARD SPECIFICATIONS.

18. ASPHALT PAVEMENT - ASPHALT PAVEMENT THICKNESSES SHALL CONFORM TO THE GEOTECHNICAL RECOMENDATIONS. ALL ASPHALT PAVING PROCEDURES AND MATERIALS SHALL CONFORM TO SECTIONS 5-04, 9-02 & 9-03 OF THE WSDOT/APWA STANDARD SPECIFICATIONS EXCEPT WHERE SUPERCEDED BY THE LOCAL JURISDICTION REQUIREMENTS AND / OR THE GEOTECHNICAL REPORT. WHERE NEW ASPHALT PAVEMENT JOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO A NEAT, VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION IN ACCORDANCE WITH WSDOT SPECIFICATIONS.

19 CRUSHED ROCK TOP COURSE - ALL CRUSHED SURFACING TOP COURSE SHALL BE IN CONFORMANCE WITH SECTION 9-03.9(3) OF THE WSDOT/APWA STANDARD SPECIFICATIONS.

20 CEMENT CONCRETE CURBS - INTEGRAL CEMENT CONCRETE CURBS SHALL BE PER DETAILS WITHIN THIS PLAN SET AND THE WSDOT / APWA STANDARDS. CEMENT CONCRETE CURBS SHALL BE CLASS 3000 CONCRETE IN CONFORMANCE WITH THE REQUIREMENTS OF SECTION 6-02 AND 8-04 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.

21 RETAINING WALLS - THE RETAINING WALLS OVER 4 FEET IN HEIGHT SHALL BE DESIGNED BY THE STRUCTURAL ENGINEER. WALLS LESS THAN 4 FEET IN HEIGHT SHALL BE KEYSTONE BLOCK WALLS TO BE INSTALLED PER THE MANUFACTURERS STANDARDS.

22 STRIPING & PAVEMENT MARKINGS - APPLY PAVEMENT MARKING MATERIALS TO CLEAN, DRY PAVEMENT SURFACES ACCORDING TO WSDOT STANDARD SPECIFICATION 8-22. PAVEMENT MARKINGS SHALL COMPLY WITH THE MUTCD AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

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ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

STANDARD CIVIL NOTES AND SHEET INDEX

SHEET #
C0.01

UTILITY NOTES

1. NOTE CONFLICT PRECEDENCE - IF THERE IS A CONFLICT OR DISCREPANCY BETWEEN THE NOTES INCLUDED ON THIS SHEET AND THE NOTES PROVIDED BY THE AUTHORITY HAVING JURISDICTION (AHJ) THE NOTES PROVIDED BY THE AHJ SHALL TAKE PRECEDENCE.
2. EXISTING UTILITY LOCATIONS - EXISTING UTILITY AND OTHER SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN COMPILED FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION, HOWEVER, IS NOT GUARANTEED TO BE ACCURATE OR COMPLETE. CONTRACTOR TO LOCATE (INCLUDING ELEVATION) ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR CONSTRUCTION. FOR AID IN UTILITY LOCATION, CALL 1-800-424-5555 A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION.
3. CONNECTIONS TO THE EXISTING UTILITIES - CONNECT UTILITY PIPING TO EXISTING SYSTEM ACCORDING TO REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ARRANGE WITH THE GOVERNING REGULATORY AGENCY OR UTILITY COMPANY FOR TAP OF SIZE AND IN LOCATION INDICATED. COORDINATE REQUIREMENTS AND SCHEDULING WITH AUTHORITIES HAVING JURISDICTION. THE OWNER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
4. UTILITY COVER & CLEARANCES - BURY PIPING WITH DEPTH OF COVER IN COMPLIANCE WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION FOR ALL REQUIREMENTS AND TO CONFIRM THAT AN ADEQUATE DEPTH OF COVER IS MAINTAINED OVER THE UTILITIES, INCLUDING CLEARANCES BETWEEN THE VARIOUS UTILITIES. A MINIMUM SEPARATION OF 18-INCHES TO BE MAINTAINED BETWEEN WATER CROSSING SEWER AS WELL AS SEWER CROSSING SEWER. A MINIMUM VERTICAL SEPARATION OF 12-INCHES TO BE MAINTAINED BETWEEN WATER CROSSINGS WITH ALL OTHER UTILITIES, AS WELL AS SEWER CROSSINGS WITH ALL OTHER UTILITIES. SEWER INCLUDES STORM SEWER AS WELL AS SANITARY SEWER. IF MINIMUM VERTICAL SEPARATION CANNOT BE MAINTAINED BUT IS 6-INCHES OR GREATER, A CONCRETE CRADLE SHALL BE INSTALLED BETWEEN THE PIPES. IF THE VERTICAL SEPARATION IS BETWEEN 2.5-INCHES AND 6-INCHES, ETHAFOAM PADS (DOW PLASTICS ETHAFOAM 220, OR APPROVED EQUAL) SHALL BE INSTALLED BETWEEN THE PIPES. AT NO TIME SHALL THE VERTICAL SEPARATION BE LESS THAN 2.5-INCHES. IN ADDITION TO THE CRADLE OR FOAM, IF SEWER IS CROSSING OVER WATER AND CLEARANCE CANNOT BE MAINTAINED SEWER SHALL BE INSTALLED WITH CONCRETE ENCASEMENT FOR 20', CENTERED ON CROSSING.
5. FITTINGS AND JOINTS - FOR EACH TYPE OF PIPE, USE JOINING MATERIALS RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.
6. BUILDING CONNECTIONS - UTILITIES SHALL BE STUBBED FIVE (5) FEET OUTSIDE OF THE BUILDING. THE SITE CONTRACTOR SHALL COORDINATE CONTINUATION OF UTILITY SERVICES AND UTILITY CONNECTIONS TO THE BUILDING WITH THE BUILDING CONTRACTOR AND BUILDING PLANS. A PLUG SHALL BE INSTALLED AT THE END OF SERVICE LINES UNTIL SUCH TIME THAT SERVICE IS EXTENDED TO THE BUILDING FOR CONNECTION.
7. FIELD CONTROL - FIELD QUALITY CONTROL SHALL COMPLY WITH THE AUTHORITIES HAVING JURISDICTION. INSPECT, TEST, DISINFECT, AND CLEAN UTILITY LINES IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
8. PIPE TRENCH & BEDDING - ALL PIPE SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN CONFORMANCE WITH THE REQUIREMENTS OF WSDOT/APWA SPECIFICATION 7-04.3(1). THIS SHALL INCLUDE NECESSARY LEVELING OF THE TRENCH BOTTOM OR THE TOP OF THE FOUNDATION MATERIAL AS WELL AS PLACEMENT AND COMPACTION OF REQUIRED BEDDING MATERIAL TO UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF THE PIPE WILL BE SUPPORTED ON A UNIFORMLY DENSE, UNYIELDING BASE. IF THE NATIVE MATERIAL IN THE BOTTOM OF THE TRENCH MEETS THE REQUIREMENTS FOR "GRAVEL BACKFILL FOR PIPE BEDDING" THE FIRST LIFT OF PIPE BEDDING MAY BE OMITTED, PROVIDED THE MATERIAL IN THE BOTTOM OF THE TRENCH IS LOOSENED, REGRADED AND COMPACTED TO FORM A DENSE UNYIELDING BASE.
9. TRENCH BACKFILL - TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DENSITY, IN ACCORDANCE WITH SECTION 7-04.3(3) OF THE WSDOT/APWA STANDARD SPECIFICATIONS. BACKFILL OF TRENCHES SHALL BE PER SECTION 9-03.12(3) OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
10. TRENCH SURFACE RESTORATION - THE GROUND SURFACES OF ALL TRENCHES IN THE PUBLIC RIGHT-OF-WAY OR ON OFF-SITE PROPERTIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION.
11. COMPACTION - ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%.
12. UTILITY TAPE - UTILITY PIPE AND CONDUITS SHALL BE INSTALLED WITH CONTINUOUS WARNING TAPE DIRECTLY OVER PIPING AT DEPTHS IN COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND AT OUTSIDE EDGE OF UNDERGROUND STRUCTURES. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING.
13. DISCONNECTION OF STORM DRAINAGE - INSIDE THE CITY OF BELLEVUE LIMITS, ANY STORM DRAINAGE CONNECTIONS SHOULD BE CAPPED TO PREVENT DEBRIS FROM ENTERING THE PIPE. RECONNECTION MAY REQUIRE A STORM CONNECTION PERMIT. THE OWNER IS RESPONSIBLE TO ASSESS THE PIPE CONDITION TO DETERMINE WHETHER IT CAN BE RE-USED. STORM DRAINAGE SYSTEMS OUTSIDE BELLEVUE ARE HANDLED BY THE APPLICABLE JURISDICTION.
14. IF YOU HAVE ANY QUESTIONS CONCERNING SERVICE DISCONNECTIONS, PLEASE CALL THE UTILITY REPRESENTATIVE IN THE PERMIT CENTER AT (425) 452-4187.

STORM WATER / DRAINAGE NOTES

1. GENERAL STORM WATER - DRAWING PLANS AND DETAILS INDICATE GENERAL LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITY AND STORM DRAIN PIPING. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE DESIGN CONSIDERATIONS INTO ACCOUNT. INSTALL PIPING AS INDICATED, TO EXTENT PRACTICAL. WHERE SPECIFIC INSTALLATION IS NOT INDICATED, FOLLOW PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS. REFER TO ARCHITECTURAL AND MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING ROOF DRAINS AND DOWNSPOUTS.
2. CATCH BASINS - CATCH BASINS SHALL BE WSDOT/APWA TYPE I OR TYPE 2 CATCH BASINS WITH LOCKING LIDS AS INDICATED ON THE PLANS, AND SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 7-05 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
3. YARD DRAINS - YARD DRAINS SHALL BE NDS 12-INCH SQUARE CATCH BASINS INSTALLED WITH 14" DEEP SUMP BOXES, RISERS, AND GRATES. SOME YARD DRAINS TO BE INSTALLED WITH ATRIUM GRATES, AS INDICATED ON THE PLANS, IF NOT SPECIFIED STANDARD PLASTIC SQUARE GRATES TO BE USED. GRATE COLOR TO BE SELECTED BY OWNER. ALL DRAINS TO BE INSTALLED IN ACCORDANCE WITH DIVISION 7-05 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
4. STORM DRAIN PIPE - STORM DRAIN PIPE 12 INCHES IN DIAMETER OR SMALLER SHALL BE EITHER WATER-TIGHT JOINTED, POLYVINYL CHLORIDE (PVC) CONFORMING TO ASTM 3034, SDR 35, OR ADS N-12 SMOOTH INTERIOR CORRUGATED PIPE, OR APPROVED EQUAL, EXCEPT AS SHOWN ON THE PLAN AND NOTED HEREIN. STORM DRAIN PIPE LARGER THAN 12 INCHES IN DIAMETER SHALL BE ADS N-12 SMOOTH INTERIOR CORRUGATED PIPE OR APPROVED EQUAL. STORM DRAIN PIPE THAT IS LOCATED BELOW AN AREA WHICH WILL BE DRIVEN OVER, AND WHICH HAS LESS THAN TWO FEET OF COVER, SHALL BE CEMENT MORTAR LINED DUCTILE IRON PIPE CONFORMING TO ANSI A21.51, CLASS 50. STORM DRAIN PIPE WHICH PENETRATES FOUNDATION WALLS OR RETAINING WALL FOOTINGS SHALL BE INSTALLED WITH CAST IRON SLEEVES. STORM DRAIN PIPE WHICH CROSSES UNDERNEATH BUILDING OR RETAINING WALL FOOTINGS SHALL BE INSTALLED IN DUCTILE IRON CASING AND GROUTED IN PLACE. STORM DRAIN PIPE SHALL BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF DIVISION 7-04 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
5. PERFORATED PIPE - ALL PERFORATED DRAIN PIPE SHALL BE RIGID PERFORATED POLYVINYL CHLORIDE (PVC) UNDER DRAIN PIPE CONFORMING TO THE REQUIREMENTS OF DIVISION 9-05.2(6) OF THE WSDOT/APWA STANDARD SPECIFICATIONS, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE UNDER DRAIN REQUIREMENTS OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
6. DOWNSPOUTS & ROOF DRAINS - DOWNSPOUTS AND ROOF DRAINS SHALL BE TIGHT-LINED TO THE DRAINAGE SYSTEM AS SHOWN ON THE PLAN. DOWNSPOUTS AND ROOF DRAINS SHALL NOT BE CONNECTED TO FOOTING DRAINS.
7. FOOTING, WALL & PLANTER DRAINS - FOOTING DRAINS, WALL DRAINS AND PLANTER DRAINS SHALL BE BE TIGHTLINED TO THE DRAINAGE SYSTEM. ROOF DRAINS SHALL NOT BE CONNECTED TO FOOTING DRAINS.
8. STORAGE PIPES - STORMWATER PIPE STORAGE FACILITIES ARE TO CONFORM TO THE DETAILS PROVIDED ON THESE PLANS AND ARE TO BE PROVIDED BY CONTECH, OR APPROVED EQUAL. THE STORAGE PIPES SHALL CONFORM TO THE CITY OF BELLEVUE DETENTION PIPE DETAIL D-31, EXCEPT FOR THE REPLACEMENT OF THE FLOW CONTROL STRUCTURE ON THE OUTLET PIPE WITH A SPILL CONTROL SEPARATOR. ACCESS RISERS AND VENTS TO BE PROVIDED PER CITY OF BELLEVUE STANDARD PLAN D-51 AND AS REQUIRED BY THE JURISDICTION.
9. CLEAN-OUTS - CLEAN-OUTS SHALL BE PROVIDED IN BUILDING DRAINS AT ENDS, BENDS (45 DEGREES MAXIMUM, PER BEND) AND AT 100 FEET MAXIMUM INTERVALS. CLEAN-OUTS IN PAVED AREAS SHALL BE PER WSDOT/APWA STANDARD PLAN NO. B-18B. REFER TO THE DETAIL IN THIS PLAN SET FOR CLEAN-OUTS INSTALLED IN LANDSCAPED AREAS.
10. FRENCH DRAIN - FRENCH DRAIN SHALL CONSIST OF 4" DIAMETER PERFORATED PIPE, 1-1/2" - 3/4" WASHED ROCK, 1" - 3" WASHED ROCK AND NON-WOVEN GEOTEXTILE FABRIC (MIRAFI 140N) OR EQUIVALENT. FRENCH DRAIN TO BE INSTALLED PER THE DETAIL INCLUDED IN THIS PLAN SET. BOTTOM 1'-6" TO BE LEFT OPEN TO NATIVE SOILS TO ALLOW FOR INFILTRATION. PROTECT BOTTOM OF TRENCH AREA FROM COMPACTION.
11. GRAVEL BACKFILL FOR DRAINS - GRAVEL BACKFILL FOR DRAINS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 9-03.12(4) OF THE APWA/WSDOT STANDARD SPECIFICATIONS.
12. CLEANING & TESTING - CLEANING & TESTING OF THE STORM DRAIN SYSTEM SHALL BE PERFORMED IN CONFORMANCE WITH SECTIONS 7-04 AND 7-07 OF THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED OR SUPERSEDED BY THE LOCAL JURISDICTION. THE STORM DRAIN SYSTEM SHALL BE CLEANED OF ALL DIRT, ROCK AND DEBRIS PRIOR TO FINAL ACCEPTANCE OF THE WORK.

ABBREVIATIONS KEY

A/C - ASPHALTIC CONCRETE
AD - AREA DRAIN
ASPH - ASPHALT
BLDG - BUILDING
BM - BENCH MARK
BOC - BOTTOM OF CURB
BOE - BOTTOM OF EXCAVATION
BTM - BOTTOM
CB - CATCH BASIN
C&G - CURB AND GUTTER
CL - CENTERLINE, CHAIN LINK
CO - CLEANOUT
CONC - CONCRETE
CW - CONCRETE WALK
DC - DROP CONNECTION
DEMO - DEMOLISH
DI - DUCTILE IRON
DOM - DOMESTIC
DS - DOWNSPOUT
DWY - DRIVEWAY
E - EAST
ECD - ELECTRICAL CONDUIT
EL, ELEV - ELEVATION
ELEC - ELECTRICAL
EOP - EDGE OF PAVEMENT
ESC - EROSION & SEDIMENT CONTROL
ESMT - EASEMENT
EX, EXIST - EXISTING
FA - FIELD ADJUST
FD - FLOOR DRAIN
FDC - FIRE DEPARTMENT CONNECTION
FF - FINISH FLOOR
FH - FIRE HYDRANT
FLR - FLOOR
FT - FEET
FV - FIELD VERIFY
G - GAS
GM - GAS METER
GUY - GUY ANCHOR
GV - GAS VALVE
H - HORIZONTAL
HB - HOSE BIBB
HH - HANDHOLE
HPG - HIGH PRESSURE GAS
HYD - HYDRANT
IE - INVERT ELEVATION
INL - INLET
INV - INVERT
LF - LINEAL FEET
LL - LOWER LEVEL
LOC - LOCATION
LP - LIGHT POLE
LS - LANDSCAPING
MH - MANHOLE
MON - MONUMENT
P - POWER
PA - PLANTER AREA
PERF - PERFORATED
PM - POWER METER
PP - POWER POLE
PSD - PUBLIC STORM DRAIN
PSS - PUBLIC SANITARY SEWER
POC - POINT OF CONNECTION
PVC - POLYVINYLCHLORIDE
PVMT - PAVEMENT
RD - ROOF DRAIN
S - SOUTH, SEWER, SLOPE
SAN - SANITARY
SD - STORM DRAIN
SHT - SHEET
SLHH - STREET LIGHT HANDHOLE
SNS - STREET NAME SIGN
SQ - SQUARE
SS - SANITARY SEWER
SSMH - SANITARY SEWER MANHOLE
SSS - SANITARY SIDE SEWER
ST - STREET
STA - STATION
STD - STANDARD(S)
T - TELEPHONE
TBM - TEMPORARY BENCH MARK
TD - TRENCH DRAIN, TELEPHONE DUCT
TEL - TELEPHONE
TESC - TEMPORARY EROSION AND SEDIMENTATION CONTROL
TMH - TELEPHONE MANHOLE
TYP - TYPICAL
UL - UPPER LEVEL
UP - UNDERGROUND POWER
V - VERTICAL
VB - VERTICAL BEND
W - WATER
WM - WATER METER
WS - WATER SERVICE
WV - WATER VALVE
YD - YARD DRAIN

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PROJECT # 210223

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STANDARD CIVIL NOTES AND ABBREVIATIONS

SHEET #

C0.02

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OVERALL SITE PLAN

SCALE: 1" = 30'

0 30' 60'

NORTH

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SHEET #
C1.01

OVERALL SITE PLAN

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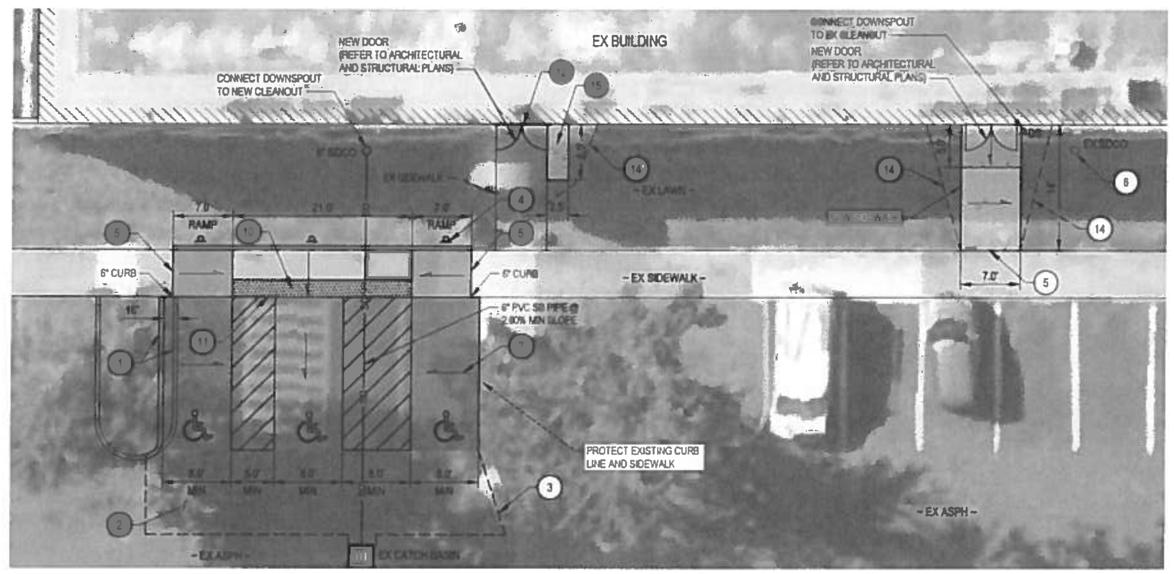

1 / C2.01 ENLARGED PLAN
SCALE 1" = 10'
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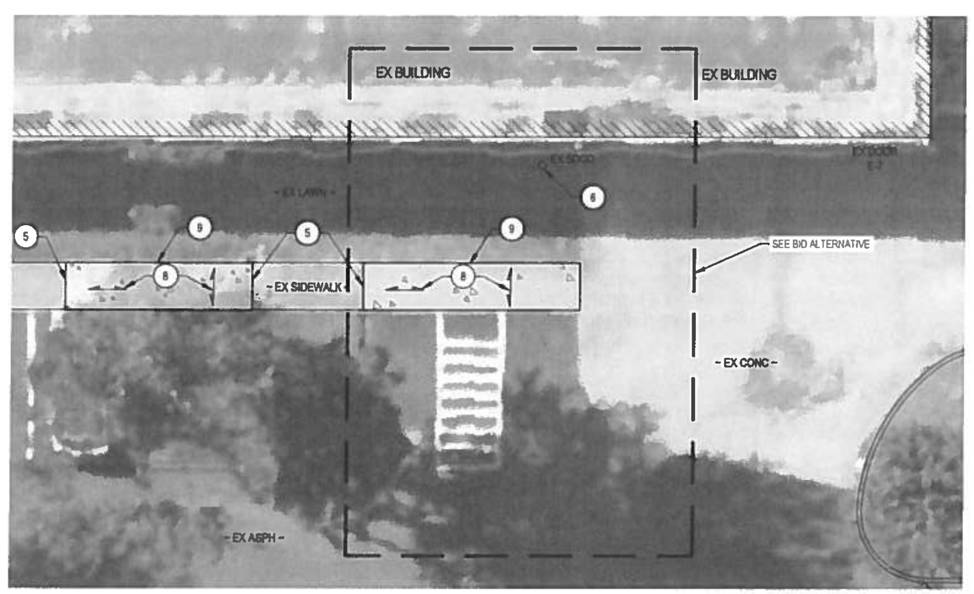
NORTH



2 / C2.01 ENLARGED PLAN
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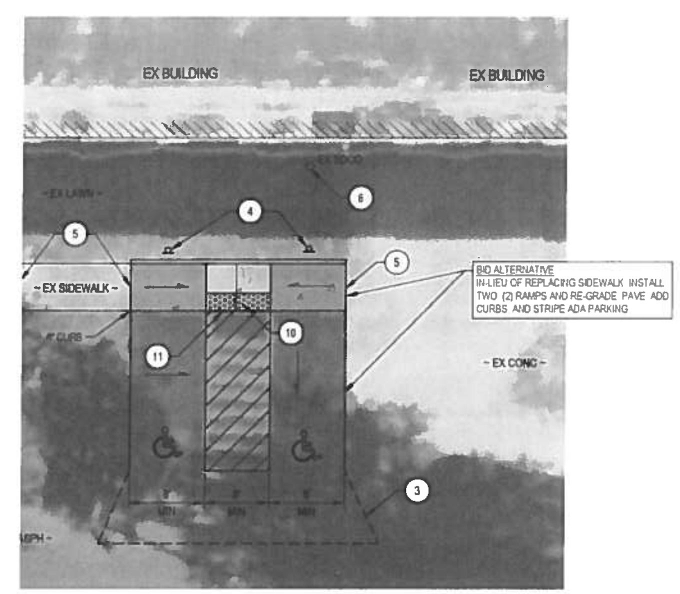
NORTH



2 / C2.01 ENLARGED PLAN - BID ALTERNATIVE
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ADA LEGEND

PATTERN	DESCRIPTION	MAX ADVISORY SLOPES	MAX BUILT SLOPES
	ADA PARKING STALLS AND AISLE WAYS	1 5% IN ANY DIRECTION	2 0% IN ANY DIRECTION
	ADA RAMPS	7 8% RUNNING / 1 5% CROSS	8 3% RUNNING / 2 0% CROSS
	LANDINGS / DOOR APPROACH	1 5% IN ANY DIRECTION	2 0% IN ANY DIRECTION
	ADA PATHWAY	4 5% RUNNING / 1 5% CROSS	5 0% RUNNING / 2 0% CROSS

GENERAL NOTES

1 FOR GENERAL SITE AND UTILITY NOTES REFER TO SHEETS C0 01 AND C0 02

2 FOR ADA SITE NOTES AND DETAILS REFER TO SHEETS C3 01 C3 02 AND C3 03

3 FOR SITE AND UTILITY DETAILS REFER TO SHEET C3 04

CONSTRUCTION NOTES

(1) REMOVE 16" (WIDTH) OF EX CURB ISLAND ADD NEW CURB
(2) ADA PARKING AREA - NEW AND MILL AND OVERLAY ASPHALT
(3) PROVIDE SMOOTH TRANSITION OF NEW ASPHALT TO EXISTING GRADE MAX SLOPE = 4 0%
(4) ADA SIGN TYP OF 3
(5) MATCH EXISTING SIDEWALK GRADE CONTRACTOR TO ENSURE THE GAPS BETWEEN SIDEWALK PANELS DO NOT EXCEED 1/2" WIDTH
(6) CONNECT DOWNSOUT TO EX STORM DRAIN CLEANOUT SCOPE EX DOWNSTREAM LINE TO VERIFY PROPER WORKING ORDER
(7) CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO CATCH BASIN
(8) MATCH EXISTING SIDEWALK SLOPE
(9) REMOVE AND REPLACE CRACKED SIDEWALK
(10) 2 WIDE DETECTABLE WARNING STRIP
(11) FLUSH CURB ALONG DETECTABLE WARNING STRIP
(12) CLEAN MOSS AND DEBRIS FROM GAP BETWEEN THE SIDEWALK AND DOOR FILL GAP TO TOP OF SIDEWALK CONCRETE WITH FLEXIBLE FILLER LIKE POLYURETHANE SEALANT GASKET EXPANSION JOINT OR CAULKING FILLER ROPE
(13) CLEAN MOSS AND DEBRIS FROM SIDEWALK GAP FILL GAP TO TOP OF SIDEWALK CONCRETE WITH FLEXIBLE FILLER LIKE POLYURETHANE SEALANT GASKET EXPANSION JOINT OR CAULKING FILLER ROPE
(14) REMOVE EXISTING BERM AND GRADE BACK AT 3 1 TO EXISTING GRADE REFER TO LANDSCAPE ARCHITECT PLANS FOR GROUND COVERING
(15) PROVIDE NEW CONCRETE TO ACCOMMODATE WING WALL AT ENTRANCE

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ENLARGED PLAN

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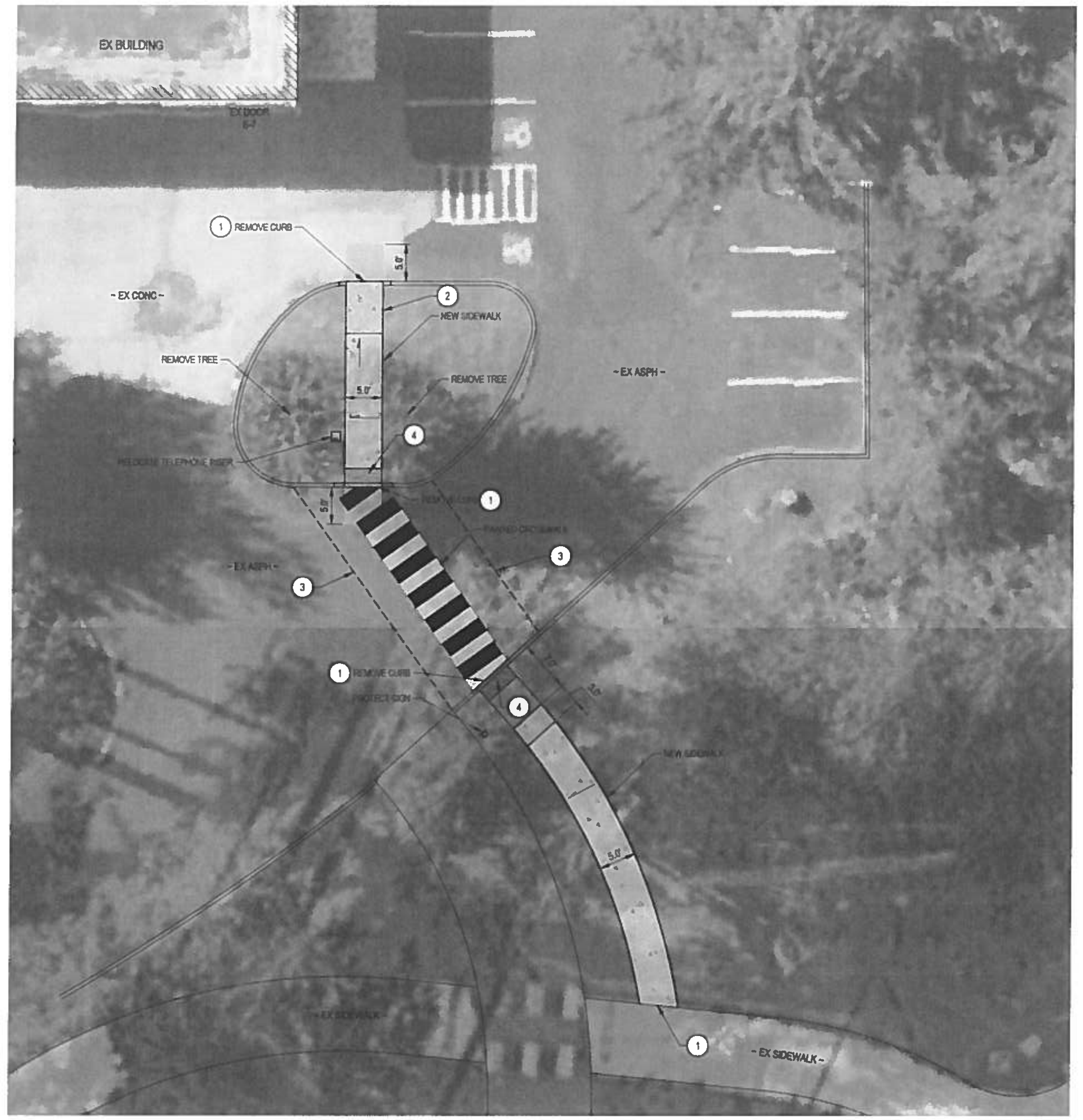

1 C2.02 **ENLARGED PLAN**
SCALE 1" = 10'

0 10' 20'

NORTH

ADA LEGEND

PATTERN	DESCRIPTION	MAX ADVISORY SLOPES	MAX BUILT SLOPES
	ADA PARKING STALLS AND AISLE WAYS	1.5% IN ANY DIRECTION	2.0% IN ANY DIRECTION
	ADA RAMPS	7.8% RUNNING / 1.5% CROSS	8.3% RUNNING / 2.0% CROSS
	LANDINGS / DOOR APPROACH	1.5% IN ANY DIRECTION	2.0% IN ANY DIRECTION
	ADA PATHWAY	4.5% RUNNING / 1.5% CROSS	5.0% RUNNING / 2.0% CROSS

GENERAL NOTES

1. FOR GENERAL SITE AND UTILITY NOTES REFER TO SHEETS C0.01 AND C0.02
2. FOR ADA SITE NOTES AND DETAILS REFER TO SHEETS C3.01, C3.02, AND C3.03
3. FOR SITE AND UTILITY DETAILS, REFER TO SHEET C3.04

CONSTRUCTION NOTES

(1) MATCH EXISTING GRADE

(2) IF 4.5% MAX SLOPE CANNOT BE ACHIEVED WITHIN THE SHOWN (YELLOW) PATHWAY, ADD ADA CURB RAMP. NO DETECTABLE WARNINGS REQUIRED AT THIS LOCATION. RAMP MAY BE A MAXIMUM ELEVATION CHANGE OF 6" AND 8.3% MAXIMUM (BUILT) SLOPE

(3) PROVIDE SMOOTH TRANSITION OF NEW ASPHALT TO EXISTING GRADE. MAX SLOPE = 4.0%

(4) 2' WIDE DETECTABLE WARNING STRIP

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C2.02

1 C2.03 **ENLARGED PLAN**
SCALE: 1" = 10'

0 10' 20'

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ADA LEGEND			
PATTERN	DESCRIPTION	MAX ADVISORY SLOPES	MAX BUILT SLOPES
	ADA PARKING STALLS AND AISLE WAYS	1.5% IN ANY DIRECTION	2.0% IN ANY DIRECTION
	ADA RAMPS	7.8% RUNNING / 1.5% CROSS	8.3% RUNNING / 2.0% CROSS
	LANDINGS / DOOR APPROACH	1.5% IN ANY DIRECTION	2.0% IN ANY DIRECTION
	ADA PATHWAY	4.5% RUNNING / 1.5% CROSS	5.0% RUNNING / 2.0% CROSS

GENERAL NOTES

1 FOR GENERAL SITE AND UTILITY NOTES REFER TO SHEETS C0.01 AND C0.02

2 FOR ADA SITE NOTES AND DETAILS REFER TO SHEETS C3.01, C3.02, AND C3.03

3 FOR SITE AND UTILITY DETAILS, REFER TO SHEET C3.04

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ADA CONSTRUCTION NOTES:

ALL AREAS OF ADA DESIGNATION SHALL COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN BY THE DEPARTMENT OF JUSTICE, DATED SEPTEMBER 15, 2010 AND THE LOCAL JURISDICTION CODES AND STANDARDS

GROUND SURFACES

GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT

ACCESSIBLE PARKING STALLS AND AISLE WAYS

1. CHANGES IN LEVEL ARE NOT PERMITTED INCLUDING ANY MANHOLE, UTILITY COVER, ETC
2. NO SLOPE SHALL EXCEED 1.5% IN ANY DIRECTION.
3. BUILT UP CURB RAMPS ARE NOT PERMITTED TO PROJECT INTO ACCESS AISLES AND PARKING SPACES BECAUSE THEY WOULD CREATE SLOPES GREATER THAN PERMITTED

ACCESSIBLE ROUTES

1. WALKING SURFACES
   - a. MINIMUM RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE LESS THAN 0.5% OR STEEPER THAN 4.5% AND THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE LESS THAN 0.5% OR STEEPER THAN 1.5%
   - b. CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL EXCEEDING 1/2 INCH MUST COMPLY WITH "RAMPS" OR "CURB RAMPS".

     SEE DETAIL 1 ON SHEET C3.01
   - c. THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN. EXCEPT: WHERE THE CLEAR WIDTH AT THE TURN IS 60 INCHES MINIMUM, THEN THE APPROACH AND LEAVE MAY BE A MINIMUM OF 36 INCHES
   - d. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 5.0%. THEY SHALL COMPLY WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN
2. DOORS, DOORWAYS AND GATES

   WITHIN MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AREAS CHANGES IN LEVEL ARE NOT PERMITTED INCLUDING ANY MANHOLES, UTILITY HANDHOLES, ETC., OTHER THAN THE DOOR THRESHOLD (SEE ADA NOTE 1 b) AND NO SLOPE SHALL EXCEED 1.5% IN ANY DIRECTION.

   SEE DETAIL 2 ON SHEET C3.01

   ADVISORY: CONSULT ADA 404.2.4.3 FOR RECESSED DOORS. ADDITIONAL CRITERIA APPLIES.
3. RAMPS

   ADVISORY: CHANGES IN LEVEL EXCEEDING 1/2 INCH MUST COMPLY WITH "RAMPS" OR "CURB RAMPS"
   - a. THE MINIMUM RUNNING SLOPE OF RAMPS SHALL NOT BE LESS THAN 0.5% OR STEEPER THAN 7.8%.
   - b. THE MINIMUM CROSS SLOPE OF RAMPS SHALL NOT BE LESS THAN 0.5% OR STEEPER THAN 1.5%.
   - c. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.
   - d. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM. HANDRAILS SHALL COMPLY WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN
   - e. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM.
   - f. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN
   - i. CHANGES IN LEVEL ARE NOT PERMITTED
   - ii. SLOPES SHALL NOT BE LESS THAN 0.5% OR IN ANY DIRECTION, STEEPER THAN 1.5%.
   - iii. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
   - iv. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.
   - v. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 60 INCHES MINIMUM
   - vi. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED (SEE ADA NOTE 2) SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA.
   - vii. LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

     SEE DETAIL 3 ON SHEET C3.01
   - g. HANDRAILS: RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN
   - h. EDGE PROTECTION SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS, PER ONE OF THE FOLLOW:
     - i. EXTENDED PAVEMENT: THE GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN

       SEE DETAIL 1 ON SHEET C3.02
     - ii. CURB OR BARRIER (RAILING): A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE.

       SEE DETAIL 1 ON SHEET C3.02

   EXCEPTIONS
   - a. EDGE PROTECTION SHALL NOT BE REQUIRED ON RAMPS THAT ARE NOT REQUIRED TO HAVE HANDRAILS AND HAVE SIDES COMPLYING WITH CURB RAMP FLARES NOT STEEPER THAN 1:10 (10.0%) MAXIMUM SLOPE.
   - b. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR STAIRWAY.
   - c. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 1/2 INCH MAXIMUM WITHIN 10 INCHES HORIZONTALLY OF THE MINIMUM LANDING AREA SPECIFIED IN LANDINGS (405.7)
4. CURB RAMPS

   ADVISORY: CHANGES IN LEVEL EXCEEDING 1/2 INCH MUST COMPLY WITH "RAMPS" OR "CURB RAMPS"
   - a. RUNNING SLOPE: THE MINIMUM RUNNING SLOPE OF RAMPS SHALL NOT BE LESS THAN 0.5% OR STEEPER THAN 7.8%.
   - b. CROSS SLOPE: THE MINIMUM CROSS SLOPE OF RAMPS SHALL NOT BE LESS THAN 0.5% OR STEEPER THAN 1.5%.
   - c. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.
   - d. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM. HANDRAILS SHALL COMPLY WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN
   - e. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 4.5%. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

     SEE DETAIL 3 ON SHEET C3.02
   - f. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.

     SEE DETAIL 3 ON SHEET C3.02
   - g. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH FOR CURB RAMPS SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.
   - h. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES

     SEE DETAIL 3 ON SHEET C3.02
   - i. DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

     SEE DETAIL 4 ON SHEET C3.02
   - j. RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP

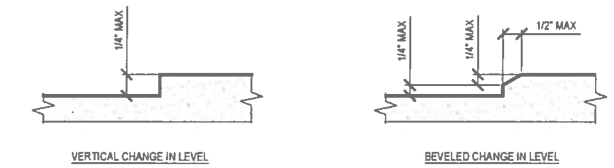
     SEE DETAIL 4 ON SHEET C3.02
   - k. SEE DETAIL 1 ON SHEET C3.03 FOR TYPICAL CURB RAMP DETAIL WITH LANDING AND TURNING SPACE WITHIN THE ADA PATHWAY
5. TURNING SPACES
   - a. A 90 DEGREE TURNING SPACE SHALL BE A SPACE OF 60 INCHES BY 60 INCHES MINIMUM AND NO SLOPE SHALL EXCEED 15% IN ANY DIRECTION
   - b. A T-SHAPED TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM

     SEE DETAIL 5 ON SHEET C3.02
6. HANDRAILS

   ADVISORY: HANDRAILS ARE REQUIRED ON RAMP RUNS WITH A RISE GREATER THAN 6 INCHES. HANDRAILS ARE NOT REQUIRED ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 50% HOWEVER, HANDRAILS ARE REQUIRED TO COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN IF INSTALLED AT ANY LOCATION, REGARDLESS OF SLOPE. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF RAMPS.
   - a. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH RAMP RUN. INSIDE HANDRAILS ON SWITCHBACKS AND RAMPS SHALL BE CONTINUOUS BETWEEN RUNS.
   - b. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES AND RAMP SURFACES
   - c. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1-1/2 INCHES MINIMUM.
   - d. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1- 1/2 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE
     - i. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 50%. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS
     - ii. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH FOR EACH 1/2 INCH OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES.
   - e. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.
   - f. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN

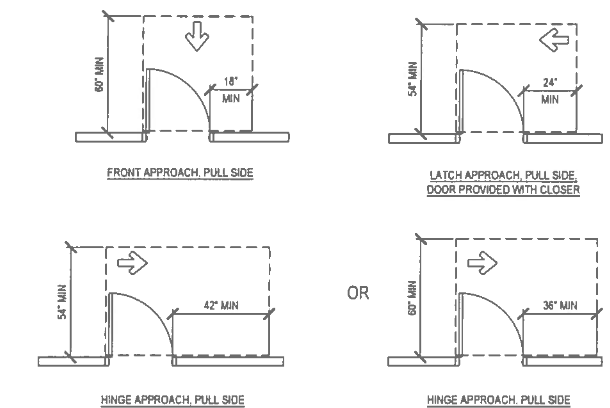
     SEE DETAIL 2 ON SHEET C3.02
7. DETECTABLE WARNINGS SHALL BE INSTALLED AT THE BASE OF ALL CURB RAMPS AND WALKING SURFACES WHERE THE USER WILL BE ENTERING A VEHICLE ACCESSIBLE AREA FROM A NON-VEHICLE ACCESSIBLE AREA

   SEE DETAIL 2 ON SHEET C3.03
8. SIDEWALK GAPS (INCLUDING JOINTS AND INSTALLING A CONNECTION PANEL BETWEEN EXISTING AND PROPOSED SHALL NOT CREATE A "CHANGE IN LEVEL" SEE NOTE 1b ON THIS SHEET



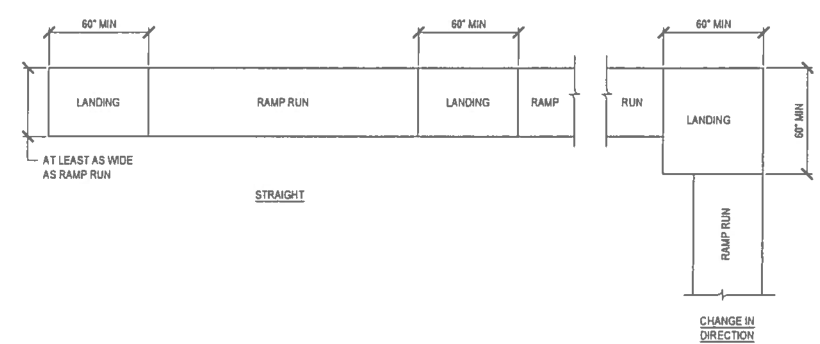
1 C3.01 CHANGES IN LEVEL

NOT TO SCALE



2 C3.01 DOOR APPROACHES

NOT TO SCALE



3 C3.01 RAMP LANDINGS

NOT TO SCALE

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6/17/21

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PROJECT #	210223
BID SET	
ISSUE DATE	JUNE 18, 2021
REVISION SCHEDULE	

STANDARD ADA NOTES AND DETAILS

SHEET #

C3.01

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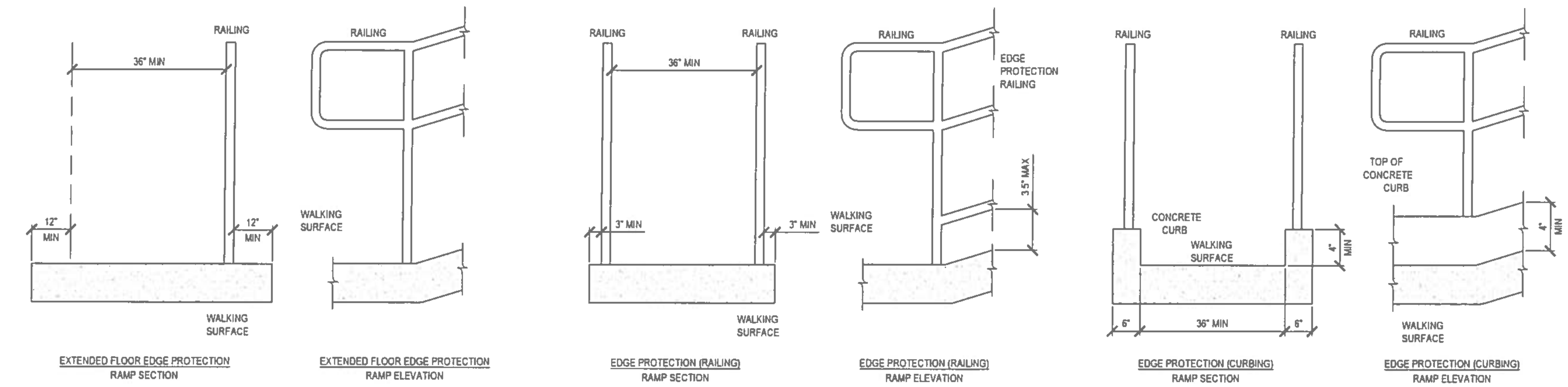
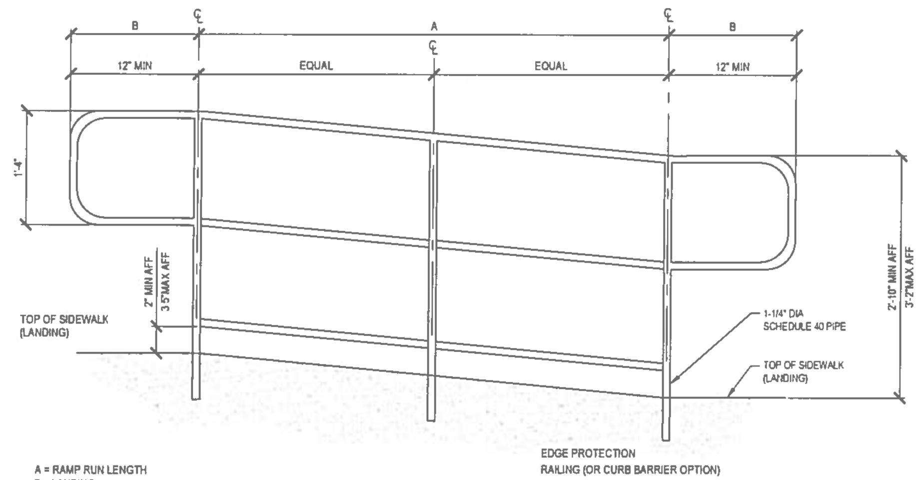


1 RAMP EDGE PROTECTION
C3.02 SEE DETAIL 2 ON SHEET C3.02 FOR HANDRAIL DETAIL

NOT TO SCALE

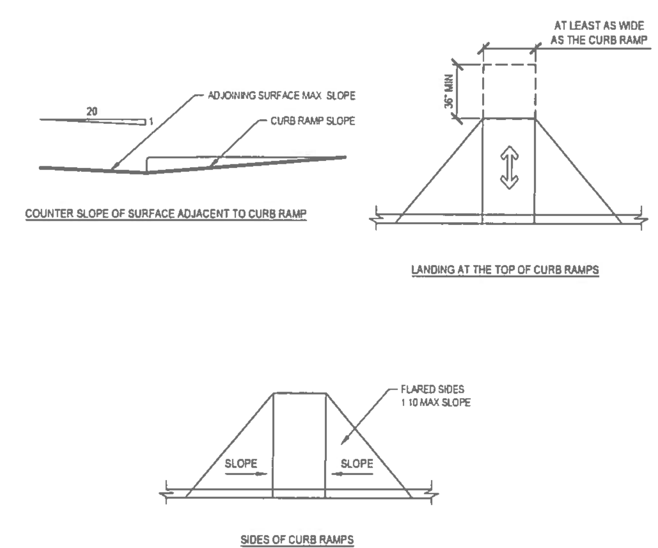


A = RAMP RUN LENGTH
B = LANDING

*NOTE: HANDRAILS TO WITHSTAND MINIMUM OF 250 LBS FOR SHEAR STRESS, SHEAR FORCE AND BENDING STRESS

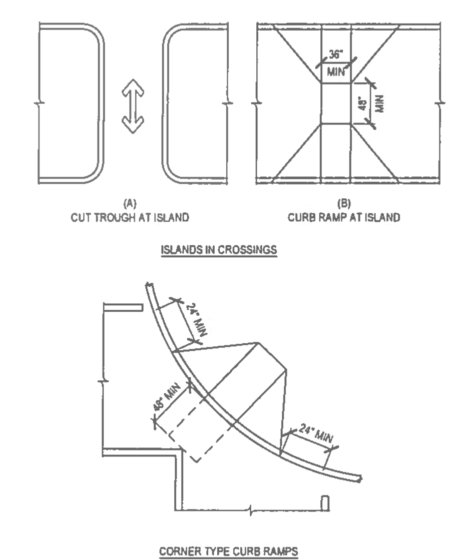
2 HANDRAIL
C3.02 SEE DETAIL 1 ON SHEET C3.02 FOR EDGE PROTECTION OPTIONS

NOT TO SCALE



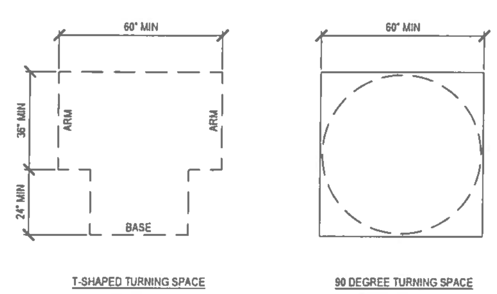
3 CURB RAMPS
C3.02

NOT TO SCALE



4 CUTTHROUGHS AND CURB RAMPS
C3.02

NOT TO SCALE



5 TURNING SPACES
C3.02

NOT TO SCALE

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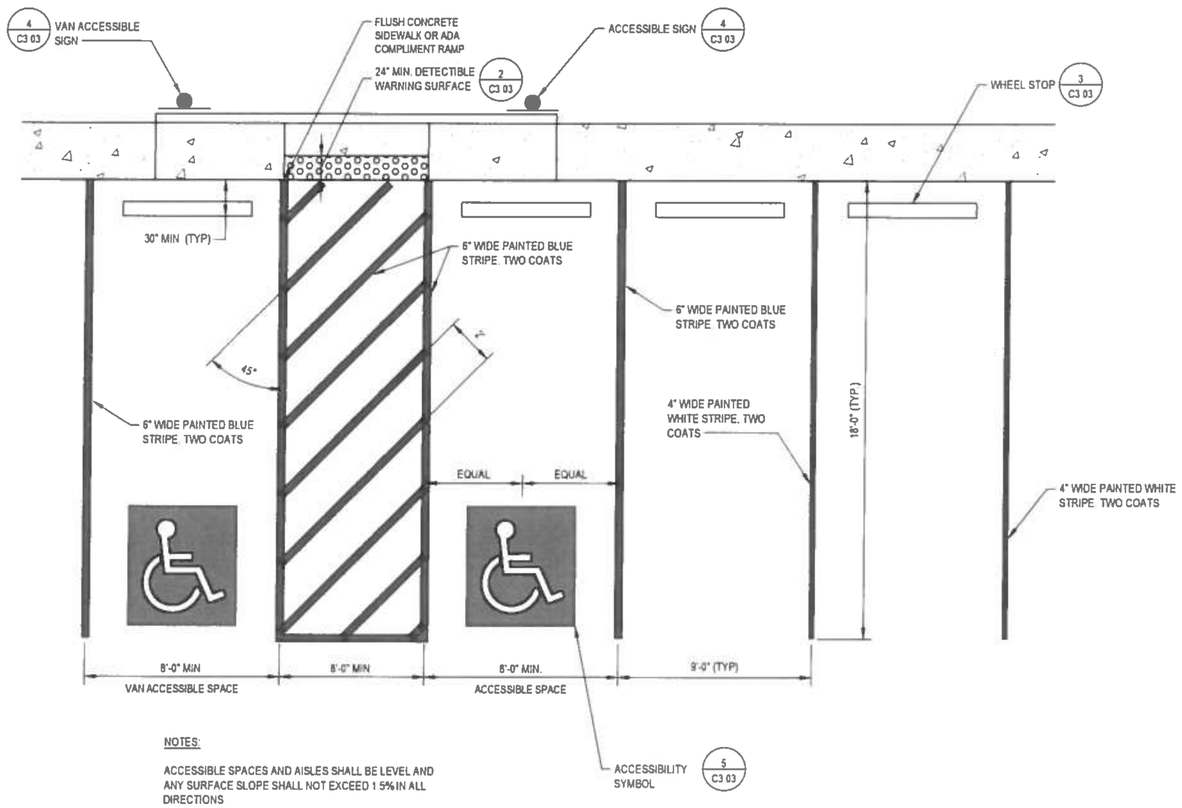
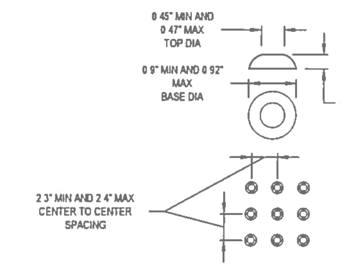


NOTES:

ACCESSIBLE SPACES AND AISLES SHALL BE LEVEL AND ANY SURFACE SLOPE SHALL NOT EXCEED 1.5% IN ALL DIRECTIONS

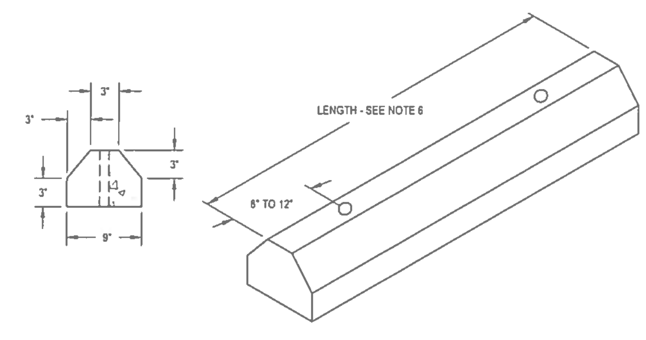
1 / C3.03 ACCESSIBLE PARKING STALL STRIPING

NOT TO SCALE



2 / C3.03 DETECTABLE WARNING SURFACE

NOT TO SCALE

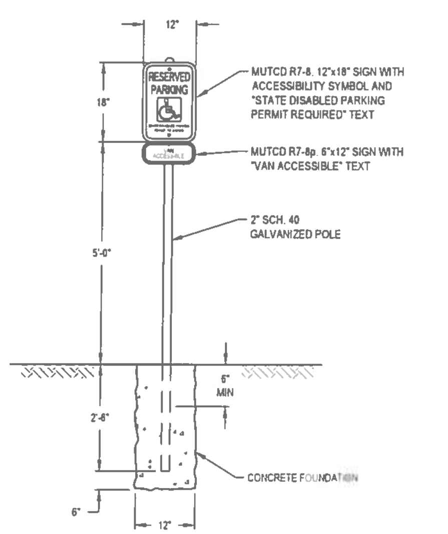


NOTES.

1. WHEEL STOP SHALL BE REINFORCED WITH A MINIMUM OF TWO #4 BARS OR FOUR #3 BARS
2. PROVIDE A MIN OF TWO 3/4" DIA HOLES FOR REBAR ANCHORS AT AC AND AB PAVEMENT
3. DIMENSIONS SHOWN ARE APPROXIMATE
4. ANCHOR WHEEL STOPS AT AC AND AB PAVING WITH TWO 18" LONG #5 BARS, MIN
5. WHEEL STOPS IN ACCESSIBLE PARKING AREAS SHALL BE PAINTED BLUE
6. WHEEL STOPS SHALL BE 6'-0" LONG AT ACCESSIBLE SPACES AND 4'-0" LONG AT ALL OTHER LOCATIONS
7. INSTALL WHEEL STOPS WITH THE VERTICAL FACE IN CONTACT WITH THE TIRE LOCATED 24" FROM THE END OF THE PARKING STALL AND 30" FROM WALL, SIGN POLE OR LIGHT POLE.
8. INSTALL WHEEL STOPS 6" FROM DRIVER SIDE STRIPE OF PARKING STALL.

3 / C3.03 WHEEL STOP

NOT TO SCALE

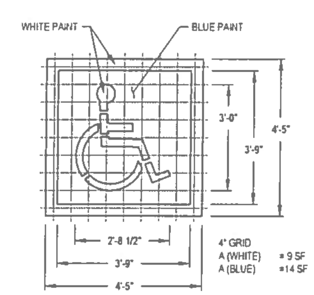


NOTES.

1. THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 60" ABOVE THE SURROUNDING SURFACE.
2. THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 60" ABOVE THE SURROUNDING GROUND SURFACE WHEN LOCATED OUTSIDE CIRCULATION PATH.
3. ONE IN EVERY SIX ACCESSIBLE OFF-STREET PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE SIGN.

4 / C3.03 ACCESSIBLE PARKING SIGN

NOT TO SCALE



NOTE

ACCESSIBILITY SYMBOL SHALL BE PAINTED IN TWO COATS

5 / C3.03 ACCESSIBILITY SYMBOL

NOT TO SCALE

NOTES:

1. IF A MESSAGE CONSISTS OF MORE THAN ONE WORD IT MUST READ "UP" I.E. THE FIRST WORD MUST BE NEAREST THE DRIVER.
2. THE SPACE BETWEEN WORDS MUST BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS. THE SPACE MAY BE REDUCED APPROPRIATELY WHERE THERE IS LIMITED SPACE BECAUSE OF LOCAL CONDITIONS.
3. MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE ENGINEER.
4. PORTIONS OF A LETTER, NUMBER OR SYMBOL MAY BE SEPARATED BY CONNECTION SEGMENTS NOT TO EXCEED 2" IN WIDTH.
5. THE WORDS "NO PARKING" PAVEMENT MARKING IS TO BE USED FOR PARKING FACILITIES. FOR TYPICAL LOCATIONS OF MARKINGS, SEE STANDARD PLANS A90A AND A90B.
6. THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH ON A CONTRASTING BACKGROUND AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS

6 / C3.03 PAVEMENT WORDS

NOT TO SCALE

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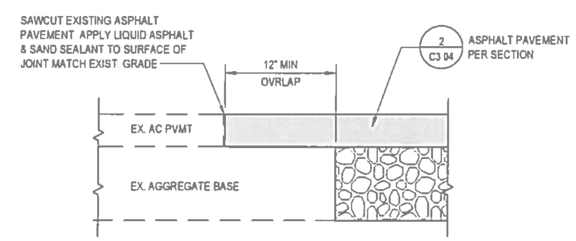
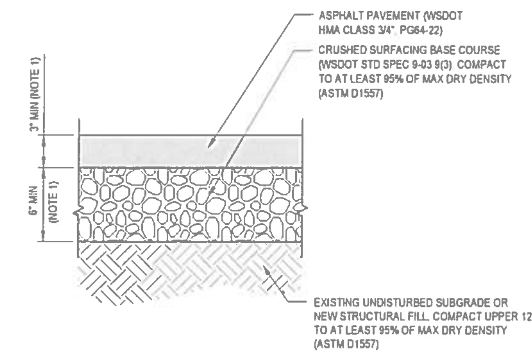
C3.03



1 C3.04 TIE-INTO EXISTING PAVEMENT DETAIL

NOT TO SCALE

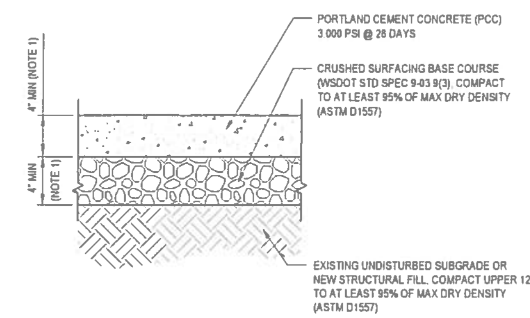


NOTES

1. DEPTH OF PAVING LAYERS TO BE INCREASED TO MATCH EXISTING IF EXISTING THICKNESSES ARE GRATER THAN THE DIMENSIONS PROVIDED
2. FOLLOW SECTION 5-04 OF THE LATEST EDITION OF WSDOT/APWA STANDARD SPECIFICATIONS FOR ASPHALT PAVEMENT CONSTRUCTION INSTALLATION AND TESTING REQUIREMENTS.

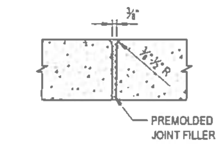
2 C3.04 ASPHALT PAVEMENT SECTION

NOT TO SCALE

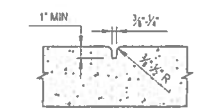


NOTES

1. DEPTH OF PAVING LAYERS TO BE INCREASED TO MATCH EXISTING IF EXISTING THICKNESSES ARE GRATER THAN THE DIMENSIONS PROVIDED
2. FOLLOW SECTION 5-05 OF THE LATEST EDITION OF WSDOT/APWA STANDARD SPECIFICATIONS FOR CONCRETE (PCC) PAVEMENT CONSTRUCTION. INSTALLATION AND TESTING REQUIREMENTS
3. PROVIDE FULL DEPTH EXPANSION JOINTS EVERY 24 FEET.
4. PROVIDE CONTRACTION JOINTS EVERY 4 FEET



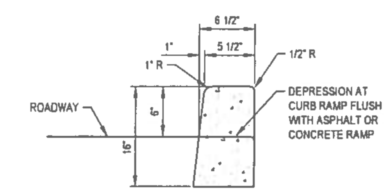
FULL DEPTH EXPANSION JOINT DETAIL



CONTRACTION JOINT DETAIL

3 C3.04 CONCRETE SIDEWALK PAVEMENT SECTION

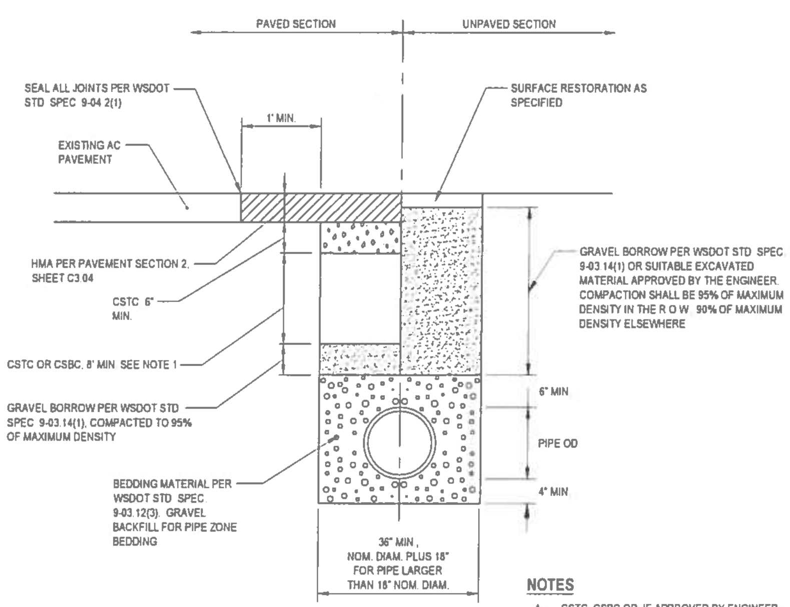
NOT TO SCALE



4 C3.04 STANDARD CONCRETE TRAFFIC CURB

WSDOT STD PLAN F-10.12-03

NTS



CROSS SECTION

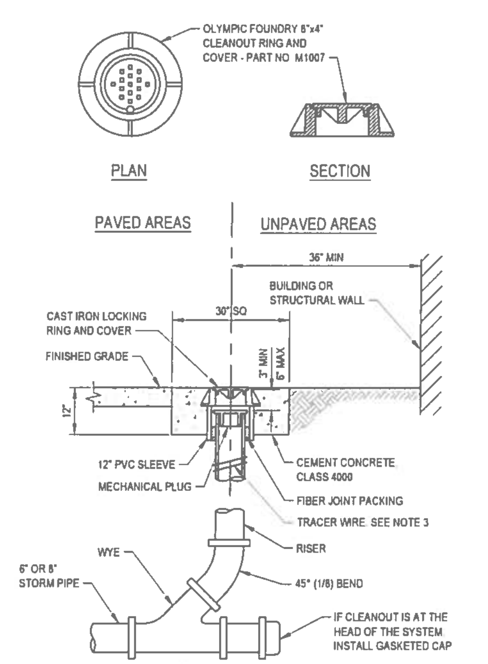
NTS

NOTES

1. CSTC, CSBC OR, IF APPROVED BY ENGINEER, CDF MEETING WSDOT STD. SPEC. 2-09.3(1)E
2. RECYCLED MATERIAL, AS DEFINED BY WSDOT STD. SPECIFICATION 9-03.21, WILL NOT BE ALLOWED IN ANY PIPE ZONE BEDDING OR TRENCH BACKFILL.

5 C3.04 PIPE TRENCH DETAIL

NOT TO SCALE

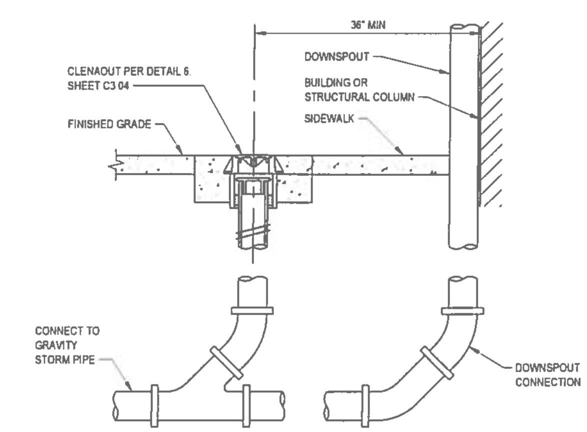


NOTES

1. CLEANOUT PIPE AND FITTINGS SHALL BE PVC
2. A SANITARY TEE OR SWEEP MAY BE INSTALLED IN LIEU OF A WYE AS SHOWN. STRAIGHT TEES ARE NOT ACCEPTABLE
3. #10 SOLID CORE TRACER WIRE (2) WRAPS MINIMUM REQUIRED FOR MAGNETIC LOCATION

6 C3.04 CLEANOUT DETAIL

NOT TO SCALE



7 C3.04 DOWNSPOUT CONNECTION DETAIL

NOT TO SCALE

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COFFMAN ENGINEERS
1997 Park Lane
Burlington, WA 98233
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ALLISON L. HA[illegible] STATE OF WASHINGTON 45458 REGISTERED PROFESSIONAL ENGINEER
6/17/21

QUIL CEDA CREEK COUNSELING

TULALIP TRIBES FEDERAL CORPORATION

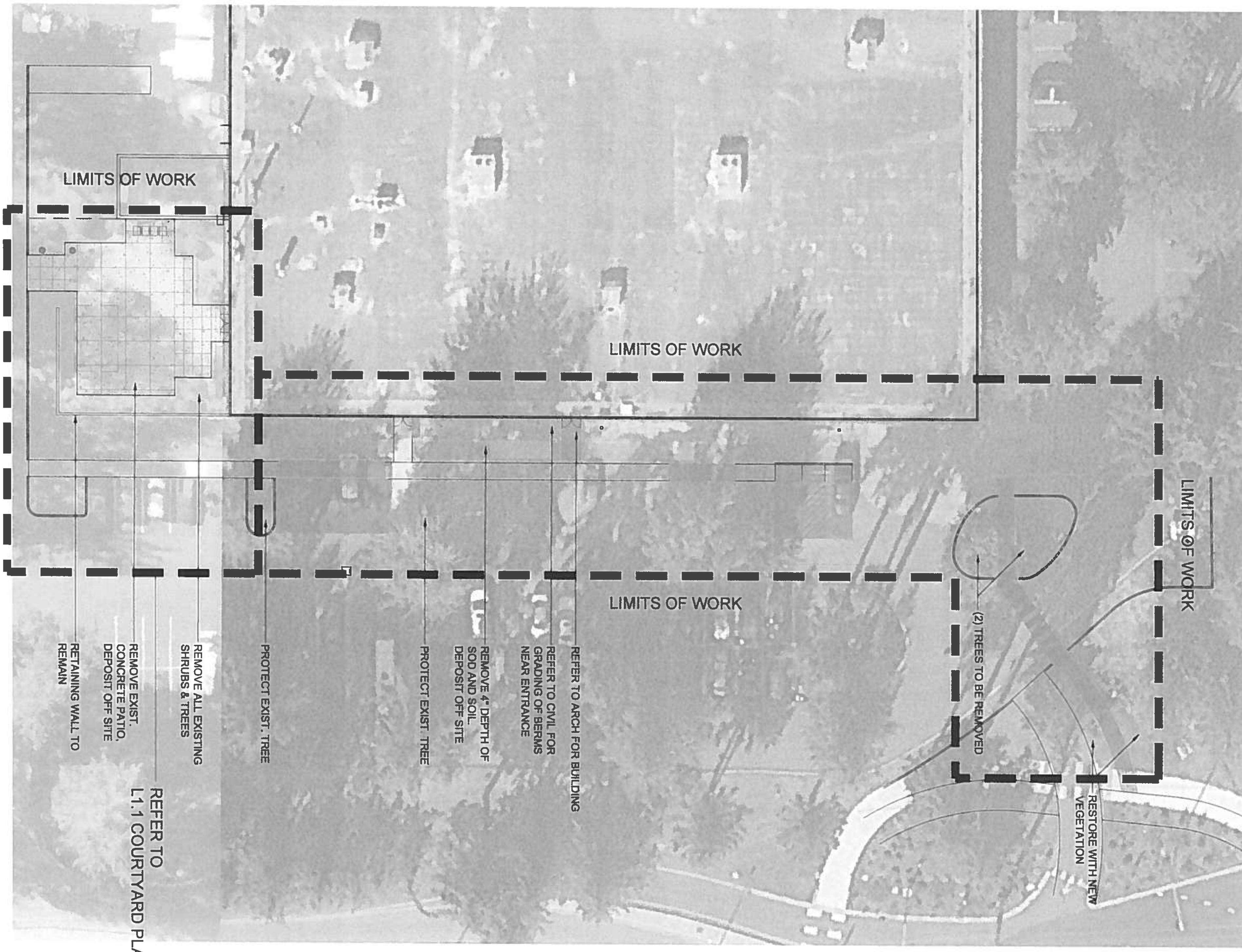
6330 31ST AVE NE
TULALIP, WA 98271

PROJECT #	210223
BID SET	
ISSUE DATE	JUNE 18, 2021
REVISION SCHEDULE	

CIVIL SITE AND UTILITY DETAILS

SHEET #

C3.04



REFER TO L1.1 COURTYARD PLAN

DISCLAIMER
LYON LANDSCAPE ARCHITECTS DOES NOT WARRANT THE EXISTING SITE FEATURES SHOWN ON THESE DRAWINGS ARE REPRESENTATIVE OF CURRENT CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER TO HAVE ALL IMPROVEMENTS FIELD VERIFIED PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LYON LANDSCAPE ARCHITECTS AND THE OWNER, PRIOR TO WORK. UTILITIES, EASEMENTS AND OTHER SITE CONDITIONS FOR THE SITE HAVE NOT BEEN RESEARCHED OR CONFIRMED.

0 10' 20' 40' 80'
Graphic Scale: 1" = 20'-0"

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

Bid Set

L1.0	OF 7 SHEETS		
SCALE:	1" = 20'-0"	DESIGN:	ML
DATE:	June 18, 2021	DRAWN:	ML
PROJECT:	QCV MAT	CHECKED:	EW
PROJECT NO:	LLA0250.21	REVISION NUMBER:	

Overall Layout Plan

REVISIONS | APPD

Lyon Landscape Architects
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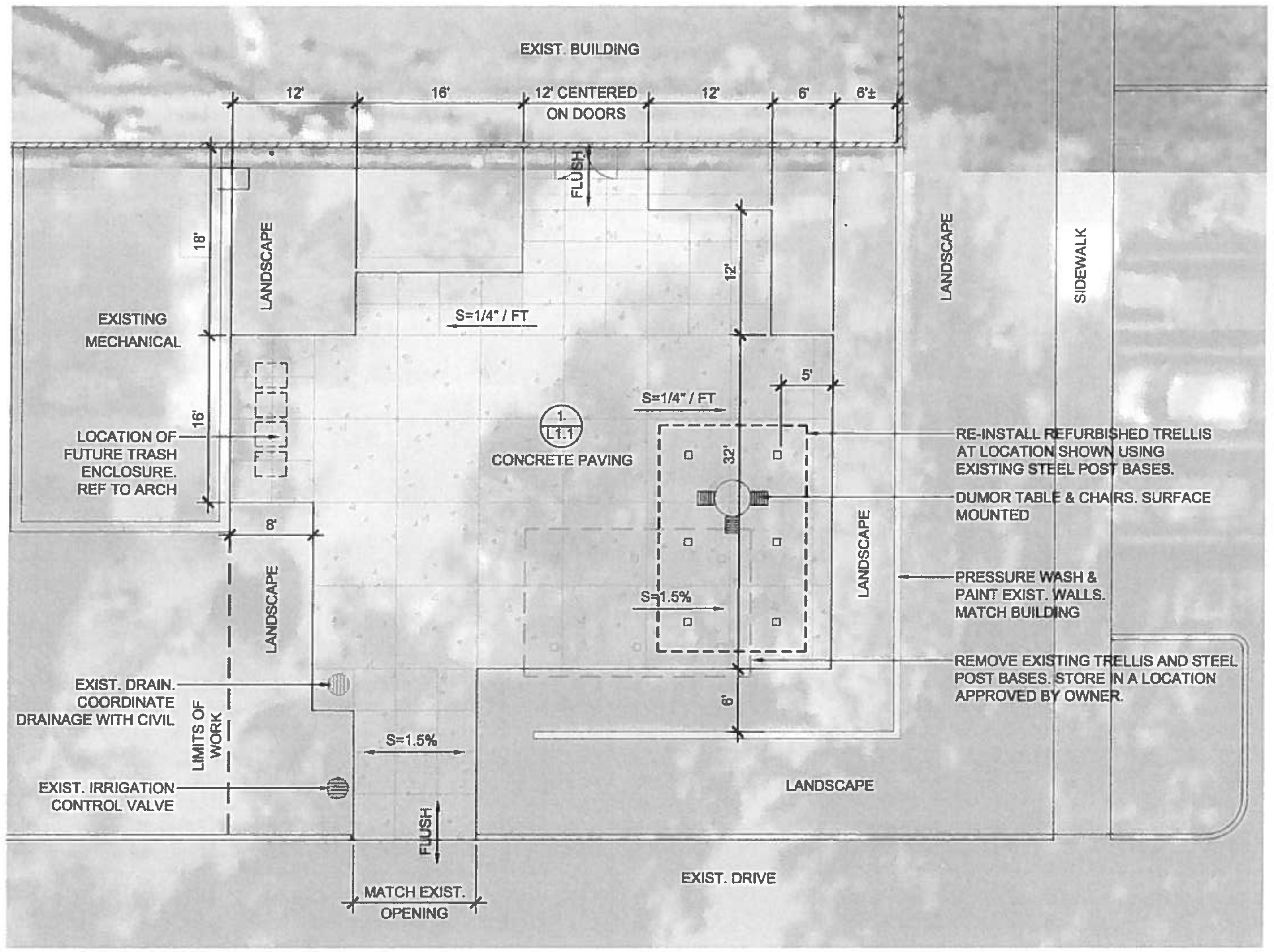
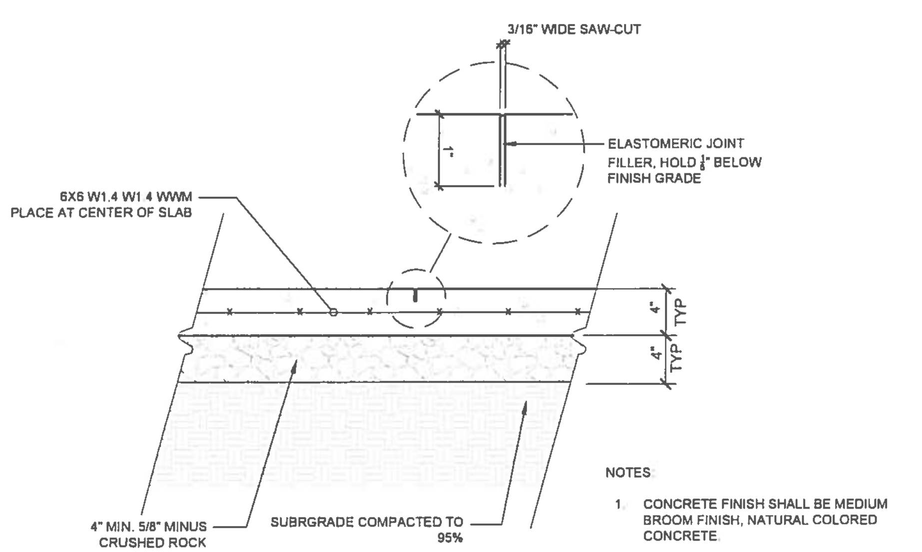
Tacoma, WA 98402
253-209-4053
Moghan@LyonLA.com

QUIL CEDA CREEK COUNSELING
Tulalip Tribes Federal Corporation
6330 31st Ave NE
Tulalip, WA 98271
PROJECT

STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT
MOGHAN LYON LICENSE NO. 1444





NOTES:
1. CONCRETE FINISH SHALL BE MEDIUM BROOM FINISH, NATURAL COLORED CONCRETE.

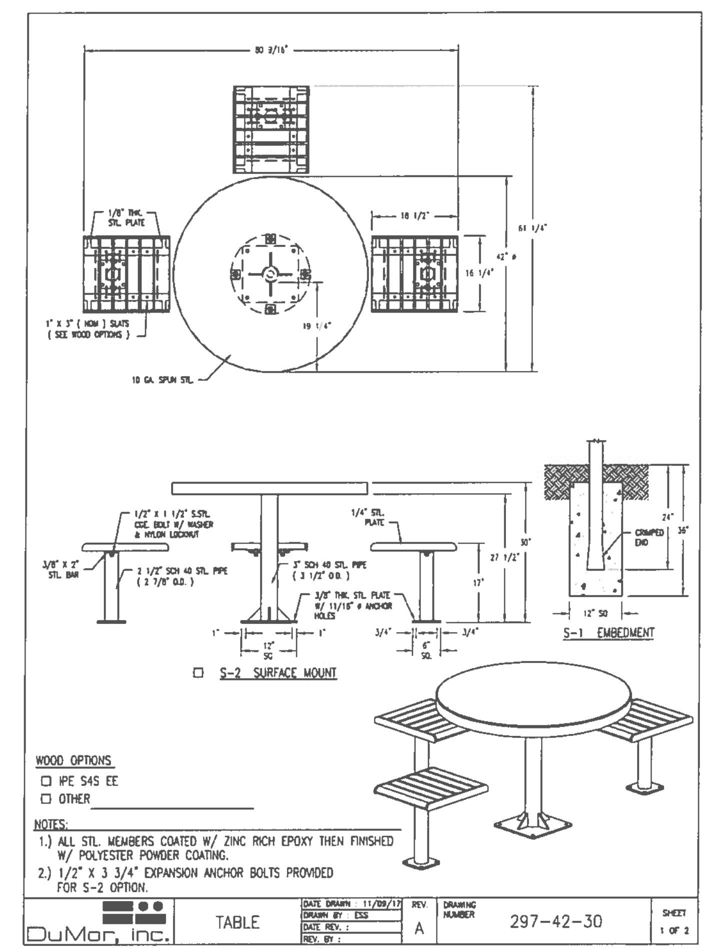
1 CONCRETE PAVING
SCALE: 1-1/2" = 1'-0"

LANDSCAPE LEGEND - SITE FURNISHINGS

DUMOR ADA ACCESSIBLE STEEL TABLE & 3 BACKLESS CHAIRS
MODEL: TABLE 297
SIZE: 42" DIAMETER TABLE
COLOR: CHARCOAL COLOR POWDER COATED TABLE AND CHAIRS
SEATING: ANTIQUE MAHOGANY RECYCLED PLASTIC SLATS
INSTALL: SPACING & SURFACE MOUNTING PER MANUFACTURER'S RECOMMENDATIONS

PROVIDE COLOR SAMPLES TO OWNER.
PROVIDE A MIN. 48" CLEAR SPACE AROUND OPEN SIDE OF TABLE FOR ADA COMPLIANCE
FINAL APPROVAL OF THE TABLE & CHAIRS, OR APPROVED EQUAL, SHALL BE BY OWNER

TRELLIS
- LIGHTLY SAND ALL EXPOSED WOOD SURFACES TO REMOVE ANY EXISTING STAIN OR PATINA ON THE WOOD.
- PAINT WITH A CLEAR STAIN - AS RECOMMENDED BY MANUFACTURER
- BEFORE RE-INSTALLATION, INSPECT ALL WOOD, CONNECTIONS, FASTENERS AND OTHER PARTS TO DETERMINE IF ANY PIECES NEED TO BE REPLACED THAT ARE OR WERE DAMAGED. REPLACE WOOD OR HARDWARE TO MATCH EXISTING WOOD OR HARDWARE.
- FINAL LOCATION OF TRELLIS SHALL BE APPROVED BY OWNER / OWNER'S REP.
- TRELLIS SHALL BE SURFACE MOUNTED WITH THE STEEL BASES AS PART OF THE ORIGINAL CONSTRUCTION.



Graphic Scale: 1" = 20'-0"

Know what's below. Call before you dig.

Bid Set

L1.1 OF 7 SHEETS	Courtyard Layout
SCALE: 1/8" = 1'-0"	DESIGN: ML
DATE: June 18, 2021	DRAWN: ML
PROJECT: QCV MAT	CHECKED: EW
PROJECT NO: LLA0250.21	REVISION NUMBER:

REVISIONS | APPD

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Tulalip Tribes Federal Corporation
6330 31st Ave NE
Tulalip, WA 98271
PROJECT

MOGHAN LYON

Bid Set

PLANT SCHEDULE

QTY.	BOTANICAL NAME	COMMON NAME	SIZE & SPACING, NOTES
DECIDUOUS TREES			
5	Acer circinatum	Vine Maple	6'-8' ht, 3-5 branch multi-stem, full & uniform, B&B, 12' OC
4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	6'-10' ht, 3-5 branch multi-stem, uniform and fully branched, B&B
SHRUBS & FERNS			
50	Azalea 'gumpo white'	Gumpo White Azalea	2 gal min @ 3' OC
51	Blechnum spicant	Deer Fern	2 gal min @ 3' OC
76	Cornus stolonifera 'Kelseyii'	Kelseyii Shrub Dogwood	2 gal min @ 3' OC
37	Gaultheria shallon	Salal	2 gal min @ 3' OC
3	Hydrangea macrophylla	Endless Summer Hydrangea	2 gal min, spacing as shown
59	Lonicera pileata	Box-leaved Honeysuckle	2 gal min @ 4' OC
28	Mahonia aquifolium 'Compacta'	Compact Oregon Grape	2 gal min @ 4' OC
9	Nandina domestica 'Gulf Stream'	Gulf Stream Heavenly Bamboo	2 gal min @ 4' OC
26	Polystichum munitum	Western Sword Fern	2 gal min @ 4' OC, healthy fronds
4	Rhododendron 'Percy-Wiseman'	Percy Wiseman Rhododendron	5 gal min, spacing as shown
GROUNDCOVERS & PERENNIALS			
86	Calluna vulgaris 'Firefly'	Firefly Heather	1 gal min @ 30" OC
46	Heuchura 'Forever Red'	Forever Red Coral Bells	1 gal min @ 24" OC
22	Hakonechloa macra 'All Gold'	All Gold Japanese Forest Grass	1 gal min @ 24" OC
32	Hosta 'Fragrant Blue'	Fragrant Blue Hosta	1 gal min @ 36" OC

LANDSCAPE SPECIFICATIONS & NOTES

1. SCOPE OF WORK
   a. The landscaping and irrigation work is part of a larger site project resulting in disturbance to the site, landscape and irrigation. As such, the landscape contractor shall coordinate all work with the general contractor, both before any construction begins, and during the course of construction.
2. MATERIALS
   a. Topsoil. Topsoil shall be a 3 way blend of the following products; sandy loam, topsoil and organic compost.
   b. Mulch. Mulch shall be dark fine mulch, applied to a 2" compacted depth on all beds. Mulch available from Pacific Topsoil 800-884-7645
   c. Fertilizer. Agraform 21-gram tablet time release fertilizer shall be used in all plantings. Place 1 for each ground cover, 2 for each shrub and 4 for each tree. They shall be placed in the plant pits as detailed. Also, top dress all plants with a suitable 'starter' fertilizer.
   d. Tree Stakes. Tree stakes shall be 2" diameter x 8' length Lodgepole pine. Fasteners shall be 1" PVC Chain-Lock, placed as detailed.
3. SOIL PREPARATION
   a. Prior to any landscape work, contractor shall remove, or have removed, all debris from the other building trades from the landscape surfaces. NO landscape work shall commence until the areas are cleared of other trades debris.
   b. Cultivate the existing ground surface to a minimum depth of 6" and remove all rocks over 1", existing roots and other debris.
   c. Fine grade the subgrade to adjoining surfaces in preparation of adding specified topsoil.
   d. Beds. Place a minimum of 6" of specified topsoil on all beds and till or cultivate the topsoil a minimum depth of 12". Remove all rock and debris which may surface. Finished grade of topsoil shall be 2.5" below adjoining paved surfaces, allowing 2" for mulch. Therefore, finished grade shall be 1/2" below paved surface.
4. PLANTING OF TREES, SHRUBS AND GROUNDCOVERS
   a. Contractor responsible to verify quantities.
   b. Contractor is to confirm that all beds are prepared and ready for planting, without interference with other trades.
   c. Layout all plants as per plan and approval by Landscape Architect or Owner's Rep, making sure the plants are orientated to give best appearance to the viewer.
   d. Pit plant all plants into prepared soil and plant per the details. While planting, water the plants into the plant pits thoroughly soaking the root balls and soil. Place fertilizer tablets as specified, filling plant pits with specified topsoil. Top dress fertilize when completed.
   e. Trees planted 5' or less from paved surfaces shall be planted with root barrier control.
   f. Shrubs and groundcover shall be planted to attain coverage of 90% of the planting area within 3 years.
5. WARRANTY
   a. All landscaping shall be warranted for one year from FINAL ACCEPTANCE. Plants requiring replacement shall be of the original variety and size as specified herein.
6. IRRIGATION
   a. An automatic irrigation system shall be installed through the Bidder Design process
   b. Contractor to confirm existing working system, point of connection, location of controller and any other requirements with the owner.
   c. Contractor to provide Coverage Test for approval by Landscape Architect or Owner.
   d. Contractor to provide As-Built Drawing of irrigation system.

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L2.0 OF 7 SHEETS

SCALE: 1" = 20'-0" DESIGN: ML
DATE: June 18, 2021 DRAWN: ML
PROJECT: QCV MAT CHECKED: EW
PROJECT NO: LLA0250 21 REVISION NUMBER:

Overall Planting Plan

REVISIONS	APPD.

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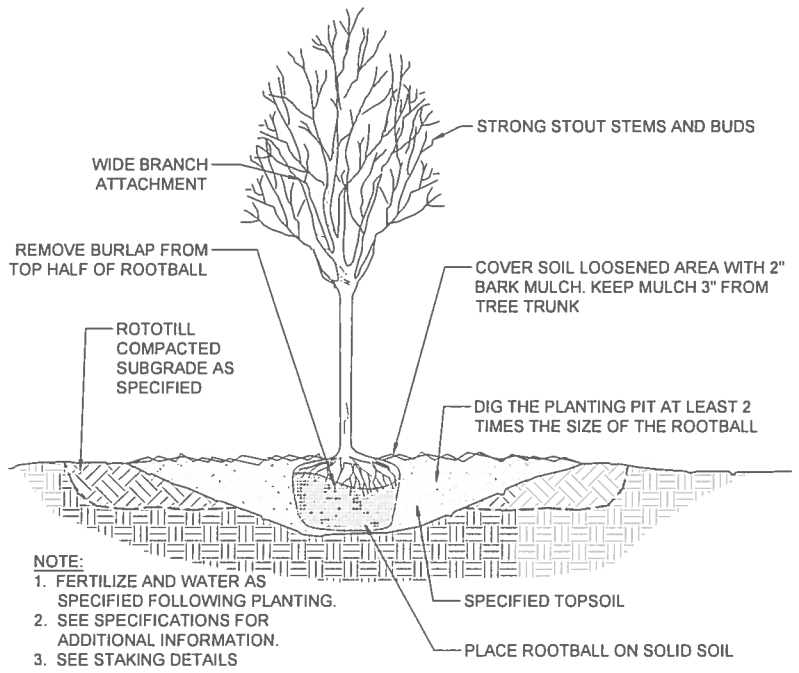
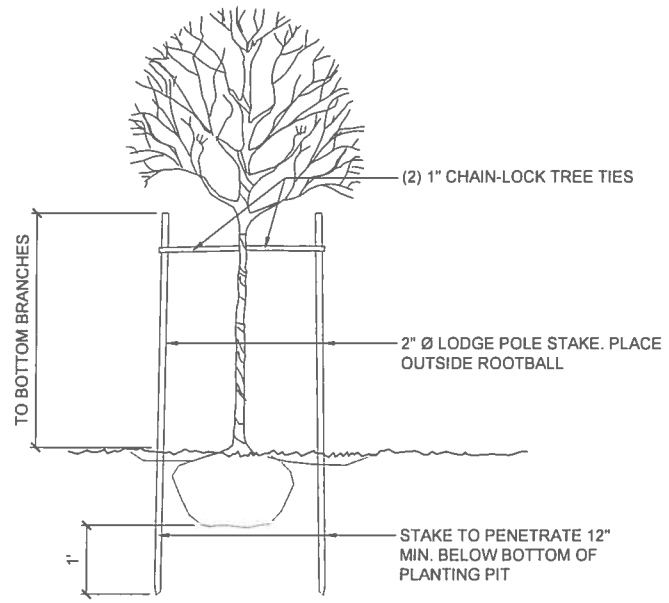
PROJECT

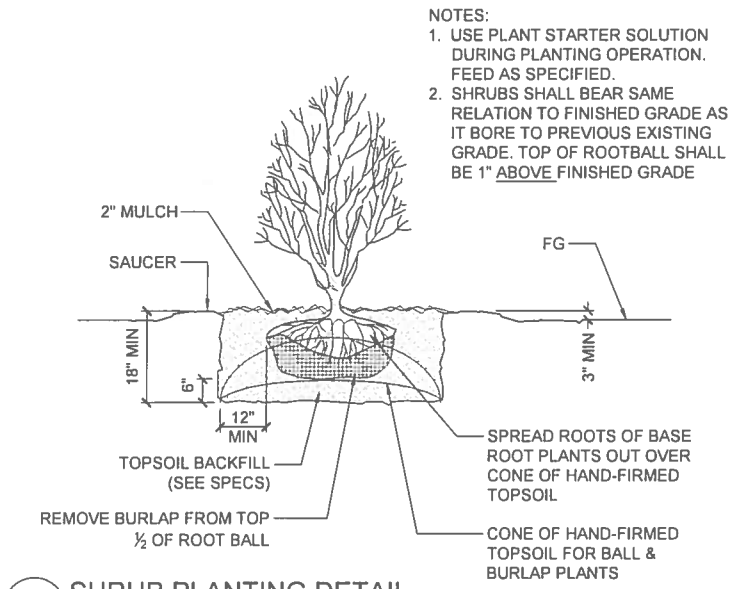
STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT
MOGHAN LYON
LICENSE NO. 1444



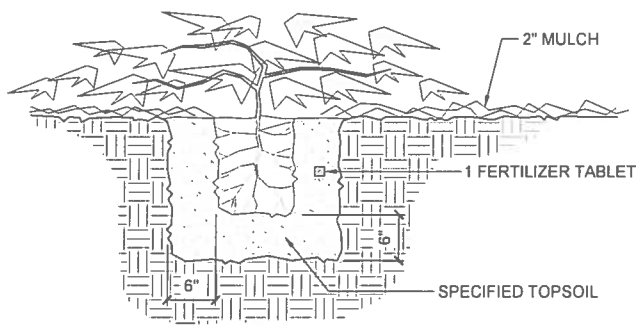
1 DECIDUOUS TREE PLANTING DETAIL
SCALE: NTS

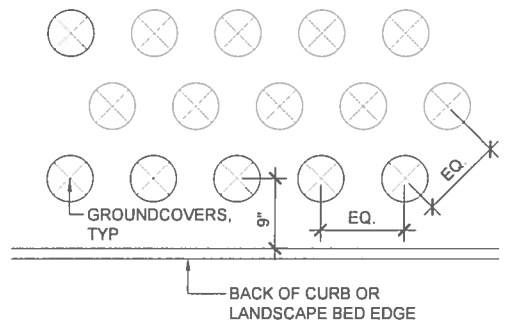


2 DECIDUOUS TREE STAKING DETAIL
SCALE: NTS



3 SHRUB PLANTING DETAIL
SCALE: NTS





NOTE:
ALL GROUNDCOVER SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING AS PER PLAN, UNLESS SHOWN OTHERWISE

4 GROUNDCOVER PLANTING DETAIL
SCALE: NTS

Bid Set

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LYON

Landscape Details

L1.1 OF 7 SHEETS

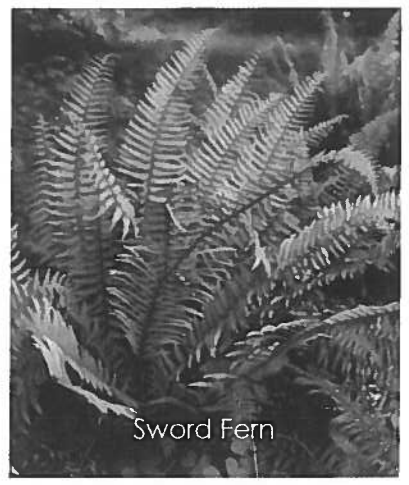
SCALE: As Shown DESIGN: ML
DATE: June 18, 2021 DRAWN: ML
PROJECT: QCV MAT CHECKED: EW
PROJECT NO: LLA0250.21 REVISION NUMBER:

REVISIONS	APPD.

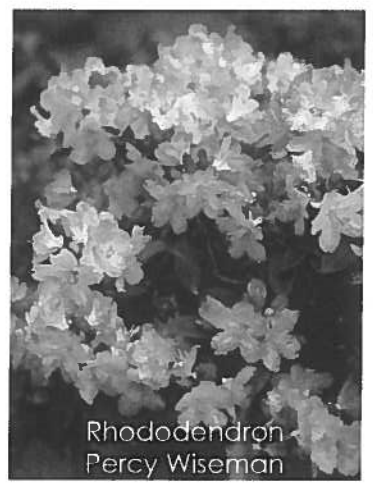
Plant Images

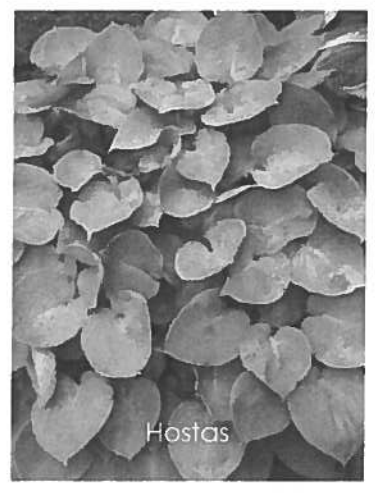
SMALL ACCENT TREE

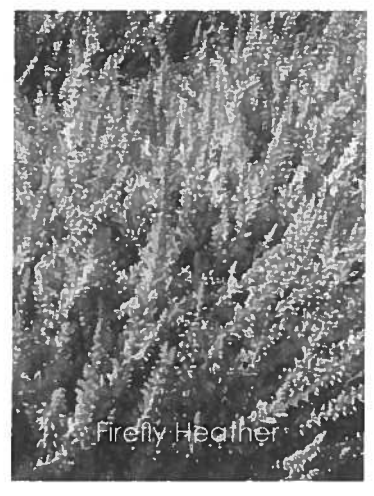
SHRUBS WITH SEASONAL COLORS



GROUNDCOVERS + PERENNIALS







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PROJECT

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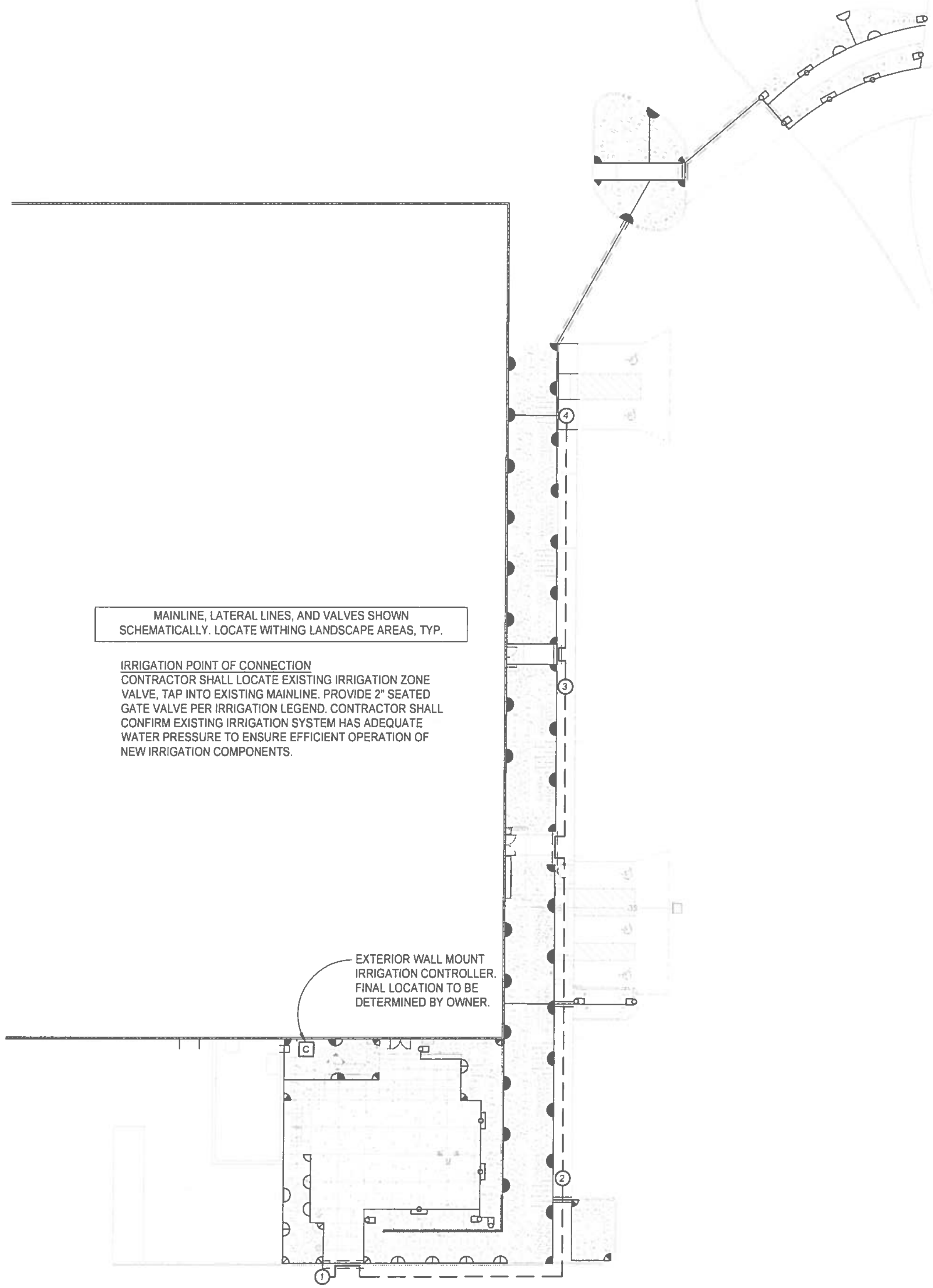
Plant Images

L2.2 OF 7 SHEETS

SCALE: As Shown DESIGN: ML
DATE: June 18, 2021 DRAWN: ML
PROJECT NO: LLA5250.21 CHECKED: EW
REVISION NUMBER: APPD
REVISIONS



IRRIGATION LEGEND

SYMBOL	MFG	CATALOG NO	DESCRIPTION
⊗	RAINBIRD	100-PEB-PRS-D	1" GLOBE PLASTIC BODY ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATING MODULE
⋈	KENNEDY	8561ASS	2" RESILIENT SEATED GATE VALVE
◉	RAINBIRD	44-LRC	1" BRASS QUICK COUPLING VALVE (QCV) W/ LOCKING RUBBER COVER, SUPPLY W/ COUPLER KEY & LOCKING COVER KEY
C	RAINBIRD	ESP-MC12	12 STATION CONTROLLER, OUTDOOR MODEL, WITH WEATHER STATION. WALL MOUNT AT LOCATION DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE.
+	HUNTER	PASV-101	1" ELECTRIC DRAIN VALVE WITH FLOW CONTROL
NOT SHOWN	STATION & COMMON WIRE SIZE-AWG 14 GAUGE MINIMUM. INSTALL ONE SPARE WIRE FOR ALL IRRIGATION ZONE WIRE RUNS. REVIEW ADDITIONAL REQUIREMENTS FOR FLOW METER & MASTER VALVE IF NECESSARY		
⊢ — ⊣	SCHEDULE 40 PVC MAINLINE (2" SIZE UNLESS NOTED OTHERWISE) @ 18" DEPTH		
⊢——⊣	SCHEDULE 200 PVC LATERAL LINES, SIZE TO NOT EXCEED 7 FEET PER SECOND		
⊨ = = ⊣	CLASS 200 PVC SLEEVES @ 24" DEPTH, SIZE TO ACCOMMODATE ALL PIPE		

IRRIGATION HEAD SCHEDULE

SYM	CATALOG NUMBER	RADIUS	GPM	PSI
	SPRAY HEADS			
	RAINBIRD 1800-MPR-8Q	8	0.26	30
	RAINBIRD 1800-MPR-8H	8	0.52	30
	RAINBIRD 1800-MPR-10Q	10	0.39	30
	RAINBIRD 1800-MPR-10H	10	0.79	30
	RAINBIRD 1800-MPR-12Q	12	0.65	30
	RAINBIRD 1800-MPR-12H	12	1.30	30
	RAINBIRD 1800-MPR-15Q	15	0.95	30
	RAINBIRD 1800-MPR-15H	15	1.85	30
	RAINBIRD 1800-MPR-15EST	4'X15'	0.61	30
	RAINBIRD 1800-MPR-15SST	4'X30'	1.21	30
	ROTOR HEADS			
	RAINBIRD 3500-2.0 NOZZLE-27Q	27	1.69	35
	RAINBIRD 3500-2.0 NOZZLE-27H	27	1.69	35
	RAINBIRD 3500-2.0 NOZZLE-27F	27	1.69	35

ZONE SCHEDULE

VALVE #	GPM	VALVE SIZE	TYPE
1	19.53	1"	SHRUB
2	28.41	1"	SHRUB
3	19.43	1"	SHRUB
4	27.13	1"	SHRUB
5-12	ZONES 5-12 ARE FUTURE ZONES		

IRRIGATION - GENERAL NOTES

1. CONFIRM WATER PRESSURE PRIOR TO STARTING OF WORK.
2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING IMPROVEMENTS DAMAGE TO EXISTING IMPROVEMENTS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND/OR QUALIFIED INSTALLERS/TRADES ACCEPTABLE TO THE SOLE SATISFACTION OF THE CONSTRUCTION OBSERVER AND AT NO COST TO THE OWNER.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR ALL CONSTRUCTION CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CONSTRUCTION OBSERVER IMMEDIATELY UPON RECOGNITION.
5. CONTRACTOR IS RESPONSIBLE FOR A THOROUGH CLEAN-UP FOR HIS/HER RESPECTIVE WORK, DAILY AND AT PROJECT CLOSE-OUT.
6. ALL PIPING UNDER HARD SURFACES SHALL BE SLEEVED CONTRACTOR IS REQUIRED TO INSTALL DUCTILE IRON PIPE FOR IRRIGATION PIPE SLEEVES UNDER PAVEMENTS. D.I. SLEEVE SHALL BE FOUR INCHES (4") LARGER THAN THE IRRIGATION MAINLINE PIPE SIZE. END OF SLEEVE SHALL EXTEND FOUR FEET (4') BEYOND EDGE OF PAVEMENT. MINIMUM DEPTH OF BURY FROM FIN. GRADE TO TOP OF SLEEVE SHALL BE ONE FOOT (12")
7. ALL CONTROL WIRING NOT IN MAINLINE TRENCH SHALL BE BURIED WITHIN METAL CONDUIT CONDUIT SHALL BE PLACED 18" BELOW FINISH GRADE ALL CONDUIT AND FITTINGS SHALL BE INTERMEDIATE METALLIC OR BETTER
8. PIPE SIZE SHALL BE THE SAME ON BOTH SIDES OF VALVES PIPE SHALL REMAIN CONSTANT BETWEEN PIPE SIZE CALLOUTS. 3/4" CLASS 200 PVC SHALL BE THE SMALLEST LATERAL LINE USED
9. FIELD VERIFY ALL SPRINKLER HEAD LOCATIONS (FLAGGING) BEFORE TRENCHING.
10. WHERE TWO OR MORE PIPES SHARE THE SAME TRENCH MAINTAIN A 4" SEPARATION BETWEEN PIPES DO NOT CROSS PIPES OVER EACH OTHER UNLESS THEY ARE AT A 90 DEGREE ANGLE.
11. IRRIGATION SITE PLAN IS SCHEMATIC. IRRIGATION PLUMBING AND EQUIPMENT SHALL BE INSTALLED IN TURF OR LANDSCAPE BED AREAS AND WITHIN PROPERTY BOUNDARIES. THE CONTRACTOR SHALL CONSIDER ALL SITE FEATURES IN THE INSTALLATION OF IRRIGATION IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL IRRIGATION EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM. FIELD VERIFY ALL EXISTING EQUIPMENT LOCATIONS AND REPORT ANY INCONSISTENCIES TO CONSTRUCTION OBSERVER/OWNER'S REPRESENTATIVE.
12. SPRINKLER HEAD SYMBOLS SCHEMATICALLY REPRESENT DESIRED SPRAY PATTERNS. FIELD ADJUSTMENTS AND VERIFICATION OF SPRAY PATTERNS WILL BE NECESSARY. ADJUST SPRAY PATTERNS TO WATER LANDSCAPE AREA ONLY AND MINIMIZE OVERSPRAY ONTO PAVEMENT

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

0 10' 20' 40' 80'
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Bid Set

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PROJECT

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		APPD.
	REVISIONS	

Irrigation Plan

L3.0 OF 7 SHEETS

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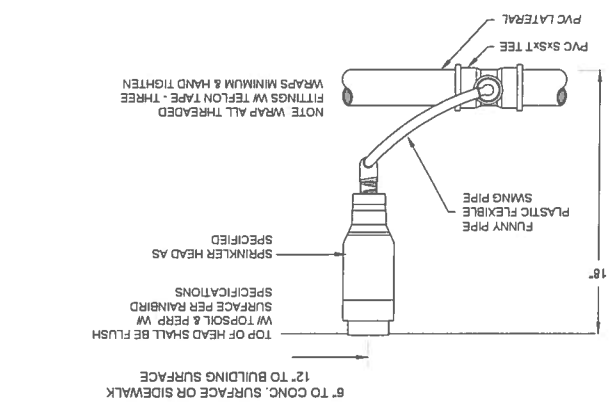
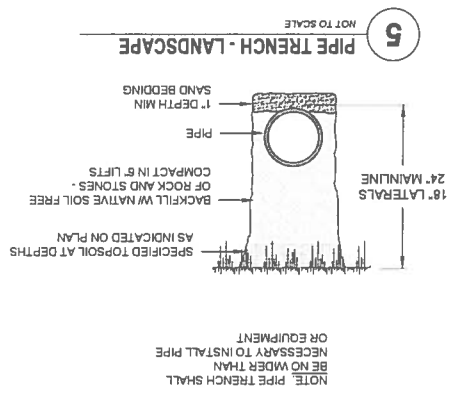
STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT
MOGHAN LYON





Bid Set

Irrigation Details

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L3.1 OF 7 SHEETS

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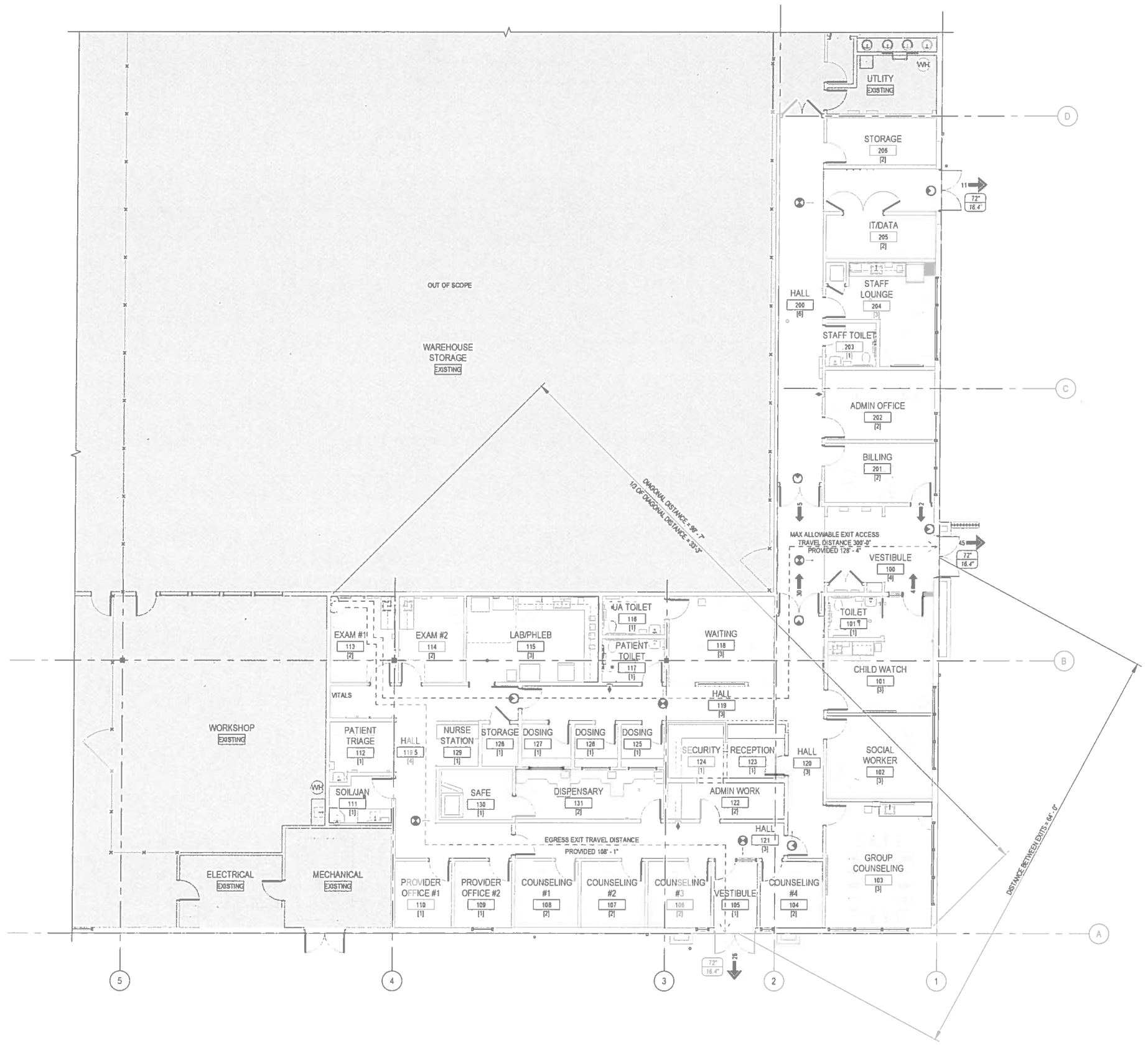

NOTES & LEGEND - LIFE SAFETY PLAN

1. PROVIDE EXIT SIGNAGE PER 2018 IBC 1009.9, 1009.10, 1009.11 AND 1013
2. PROVIDE MEANS OF EGRESS ILLUMINATION PER 2018 IBC 1008

ROOM NAME
100
[#]
ROOM TAG W/ OCCUPANT LOAD COUNT

45 MIN
DOOR FIRE RATING

00.00"
00.00"
MEANS OF EGRESS CAPACITY
WIDTH PROVIDED
WIDTH REQUIRED

OUT OF SCOPE

EXIT SIGN

FIRE EXTINGUISHER

PATH OF EGRESS

123
EXIT ACCESS OCCUPANT LOAD

123
EXIT DISCHARGE OCCUPANT LOAD

OCCUPANT LOAD CHART

ROOM INFORMATION			OCCUPANCY CLASSIFICATION	IBC 2015 TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT			OCCUPANT LOAD
NUMBER	NAME	AREA		FUNCTION OF SPACE	LOAD FACTOR GROSS/ NET		
100	VESTIBULE	357 SF	B	BUSINESS AREAS	100 SF GROSS		4
101	CHILD WATCH	217 SF	B	BUSINESS AREAS	100 SF GROSS		3
101.1	TOILET	57 SF	B	BUSINESS AREAS	100 SF GROSS		1
102	SOCIAL WORKER	210 SF	B	BUSINESS AREAS	100 SF GROSS		3
103	GROUP COUNSELING	283 SF	B	BUSINESS AREAS	100 SF GROSS		3
104	COUNSELING #4	161 SF	B	BUSINESS AREAS	100 SF GROSS		2
105	VESTIBULE	72 SF	B	BUSINESS AREAS	100 SF GROSS		1
106	COUNSELING #3	163 SF	B	BUSINESS AREAS	100 SF GROSS		2
107	COUNSELING #2	163 SF	B	BUSINESS AREAS	100 SF GROSS		2
108	COUNSELING #1	163 SF	B	BUSINESS AREAS	100 SF GROSS		2
109	PROVIDER OFFICE #2	93 SF	B	BUSINESS AREAS	100 SF GROSS		1
110	PROVIDER OFFICE #1	93 SF	B	BUSINESS AREAS	100 SF GROSS		1
111	SOILIAN	71 SF	B	BUSINESS AREAS	100 SF GROSS		1
112	PATIENT TRIAGE	89 SF	B	BUSINESS AREAS	100 SF GROSS		1
113	EXAM #1	141 SF	B	BUSINESS AREAS	100 SF GROSS		2
114	EXAM #2	139 SF	B	BUSINESS AREAS	100 SF GROSS		2
115	LAB/PHLEB	276 SF	B	BUSINESS AREAS	100 SF GROSS		3
116	UA TOILET	64 SF	B	BUSINESS AREAS	100 SF GROSS		1
117	PATIENT TOILET	71 SF	B	BUSINESS AREAS	100 SF GROSS		1
118	WAITING	216 SF	B	BUSINESS AREAS	100 SF GROSS		3
119	HALL	225 SF	B	BUSINESS AREAS	100 SF GROSS		3
119.5	HALL	360 SF	B	BUSINESS AREAS	100 SF GROSS		4
120	HALL	234 SF	B	BUSINESS AREAS	100 SF GROSS		3
121	HALL	240 SF	B	BUSINESS AREAS	100 SF GROSS		3
122	ADMIN WORK	111 SF	B	BUSINESS AREAS	100 SF GROSS		2
123	RECEPTION	78 SF	B	BUSINESS AREAS	100 SF GROSS		1
124	SECURITY	79 SF	B	BUSINESS AREAS	100 SF GROSS		1
125	DOSING	48 SF	B	BUSINESS AREAS	100 SF GROSS		1
126	DOSING	48 SF	B	BUSINESS AREAS	100 SF GROSS		1
127	DOSING	55 SF	B	BUSINESS AREAS	100 SF GROSS		1
128	STORAGE	41 SF	B	BUSINESS AREAS	100 SF GROSS		1
129	NURSE STATION	45 SF	B	BUSINESS AREAS	100 SF GROSS		1
130	SAFE	92 SF	B	BUSINESS AREAS	100 SF GROSS		1
131	DISPENSARY	181 SF	B	BUSINESS AREAS	100 SF GROSS		2
200	HALL	514 SF	B	BUSINESS AREAS	100 SF GROSS		6
201	BILLING	159 SF	B	BUSINESS AREAS	100 SF GROSS		2
202	ADMIN OFFICE	184 SF	B	BUSINESS AREAS	100 SF GROSS		2
203	STAFF TOILET	58 SF	B	BUSINESS AREAS	100 SF GROSS		1
204	STAFF LOUNGE	202 SF	B	BUSINESS AREAS	100 SF GROSS		3
205	IT/DATA	119 SF	B	BUSINESS AREAS	100 SF GROSS		2
206	STORAGE	129 SF	B	BUSINESS AREAS	100 SF GROSS		2
TOTAL		6071 SF					82

1 LIFE SAFETY PLAN
1/8" = 1'-0"

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PROJECT # 2016106.11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

LIFE SAFETY PLAN

SHEET #
A01.01

NOTES - ACCESIBILITY DETAILS

1. ACCESSIBILITY REQUIREMENTS ARE BASED ON THE FOLLOWING CODE EDITIONS:
   - 2009 ICC A117.1
   - 2015 IBC
   - 2015 WAC 51-50
2. INFORMATION ON THIS SHEET ARE GENERIC REQUIREMENTS. REFER TO PROJECT FLOOR PLANS AND INTERIOR ELEVATIONS FOR ACTUAL LAYOUT AND DIMENSIONS.
3. DIMENSIONS ARE CLEAR FROM FINISH TO FINISH, UNLESS NOTED OTHERWISE.
4. REFER TO CIVIL DRAWINGS FOR SITE AND PARKING RELATED ACCESSIBILITY REQUIREMENTS

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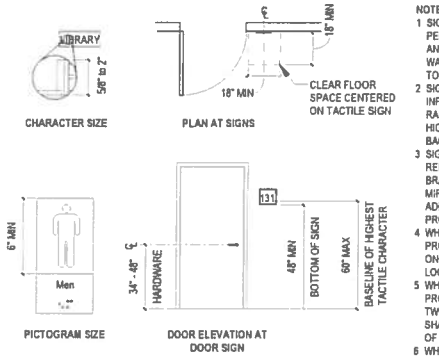
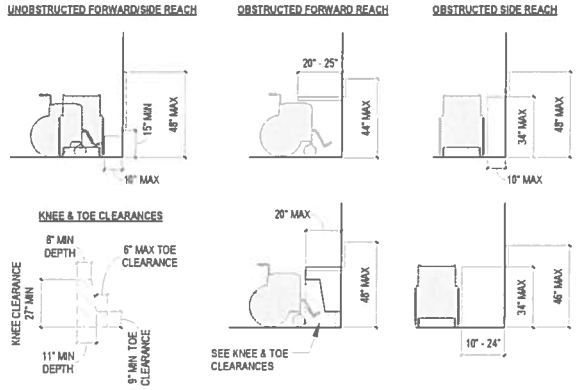
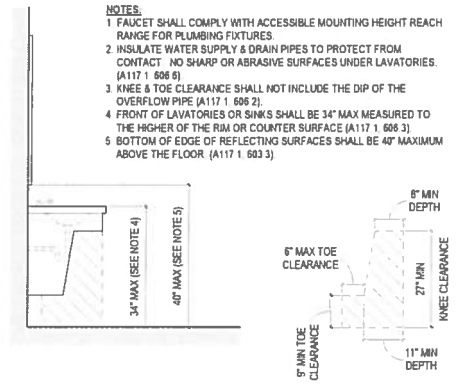


NOTES:
1. SIGNS SHALL BE PROVIDED FOR PERMANENT ROOMS AND SPACES AND SHALL BE MOUNTED ON THE WALL (NOT THE DOOR) ADJACENT TO THE LATCH SIDE OF THE DOOR.
2. SIGNS SHALL INCLUDE THE SAME INFORMATION IN BRAILLE AND WITH RAISED LETTERING THAT FORMS A HIGH CONTRAST WITH THE BACKGROUND OF THE SIGN.
3. SIGNS SHALL NOT BE MADE OF REFLECTIVE MATERIALS SUCH AS BRASS, SILVER, GOLD, GLASS, OR MIRRORED SURFACES UNLESS ADDITIONAL COMPLIANT SIGN IS PROVIDED
4. WHERE TACTILE SIGNS ARE PROVIDED AT DOUBLE DOORS WITH ONE INACTIVE LEAF, SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
5. WHERE TACTILE SIGNS ARE PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT-HAND DOOR.
6. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF A SINGLE DOOR, SIGN SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.

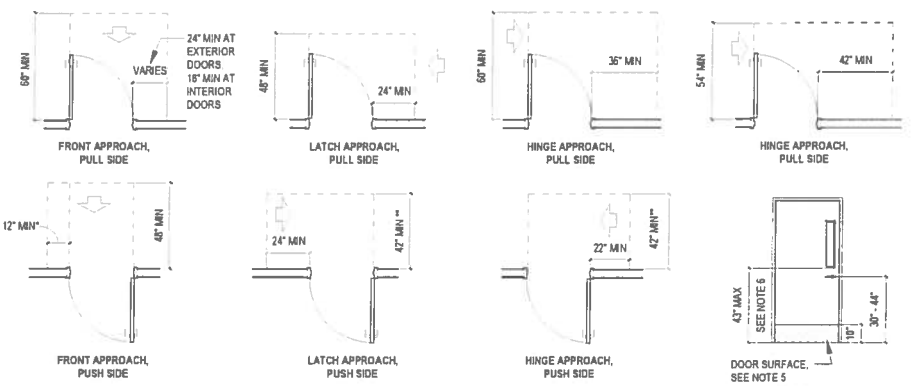
15 SIGNAGE



11 MOUNTING HEIGHTS & OPERABLE PARTS



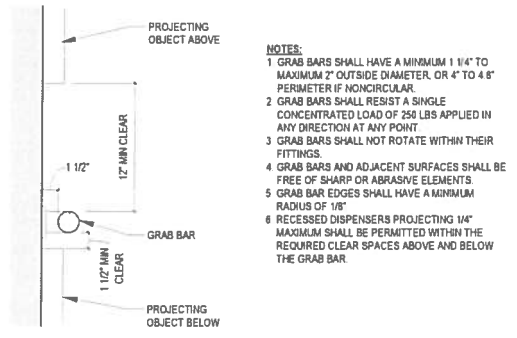
7 LAVATORY CLEARANCES
1/2" = 1'-0"



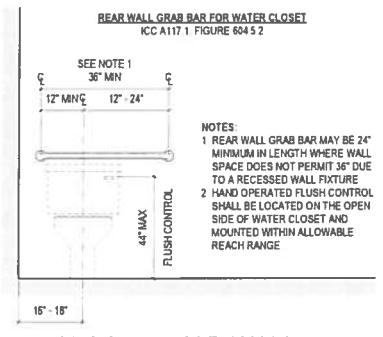
NOTES:
1. DOORWAYS INCLUDING HINGED DOORS, SLIDING DOORS, AND FOLDING DOORS SHALL HAVE A CLEAR OPENING WIDTH OF 32" MINIMUM MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
2. AUTOMATIC DOORS - SHALL COMPLY WITH BHMA A156.10. SLOWLY OPENING, LOW POWERED AUTOMATIC DOORS SHALL COMPLY WITH BHMA A156.19. POWER ASSISTED DOORS SHALL COMPLY WITH BHMA A156.19.
3. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL TO 2 UNITS HORIZONTAL. (SEE CHANGES IN LEVEL DETAILS). CHANGE IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
4. IF A DOOR HAS A CLOSER, THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
5. BOTTOM 10" OF DOOR SURFACES, EXCEPT AUTOMATIC AND SLIDING DOORS, SHALL BE SMOOTH, UNINTERRUPTED, AND EXTEND THE FULL WIDTH OF DOOR. THE 10" SMOOTH SURFACE RULE DOES NOT APPLY TO TEMPERED GLASS DOORS WHICH HAVE A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPERED AT NO LESS THAN 60 DEGREES FROM THE HORIZONTAL.
6. DOORS AND SIDE-LITES ADJACENT TO DOORS CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE PANEL ON EITHER THE DOOR OR AN ADJACENT SIDE-LIGHT 43 INCHES MAXIMUM ABOVE THE FLOOR. THIS DOES NOT APPLY WHEN THE LOWEST PART OF THE VISION LITE IS MORE THAN 66 INCHES ABOVE THE FLOOR.
7. MAXIMUM EFFORT TO OPERATE DOORS SHALL BE 5 LBF FOR EXTERIOR AND INTERIOR DOORS. MAXIMUM EFFORT TO OPERATE A FIRE DOOR SHALL BE 15 LBF. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE MAXIMUM OPENING FORCE REQUIREMENT.

* IF BOTH CLOSER AND LATCH ARE PROVIDED
** 48" MINIMUM IF BOTH CLOSER AND LATCH ARE PROVIDED
*** 48" MINIMUM IF CLOSER IS PROVIDED
**** 54" MINIMUM IF CLOSER IS PROVIDED

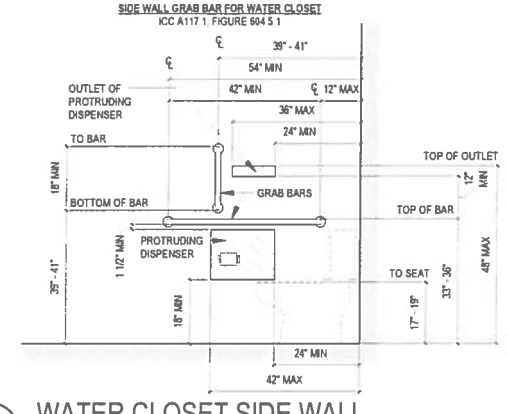
13 MANEUVERING CLEARANCES AT DOORS



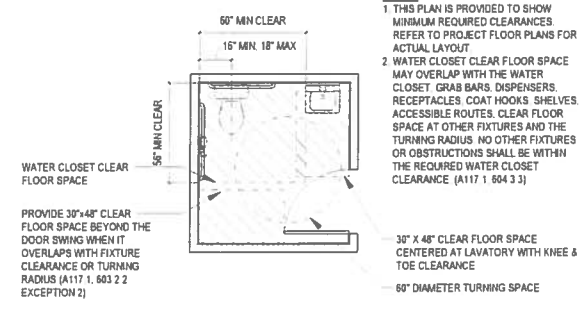
6 GRAB BAR CROSS SECTION
1 1/2" = 1'-0"



2 WATER CLOSET REAR WALL
1/2" = 1'-0"



5 WATER CLOSET SIDE WALL
1/2" = 1'-0"



1 RESTROOM CLEARANCES
1/4" = 1'-0"

PROJECT # 2016106.11
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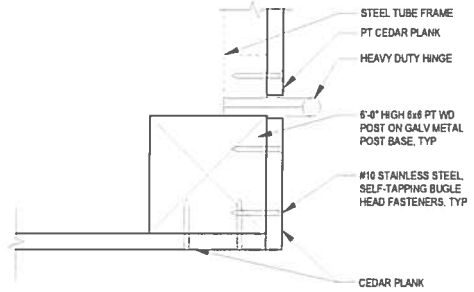
REVISION SCHEDULE

ACCESSIBILITY DETAILS

SHEET #
A04.01

4 TRASH ENCLOSURE - FRONT ELEVATION

1/4" = 1'-0"

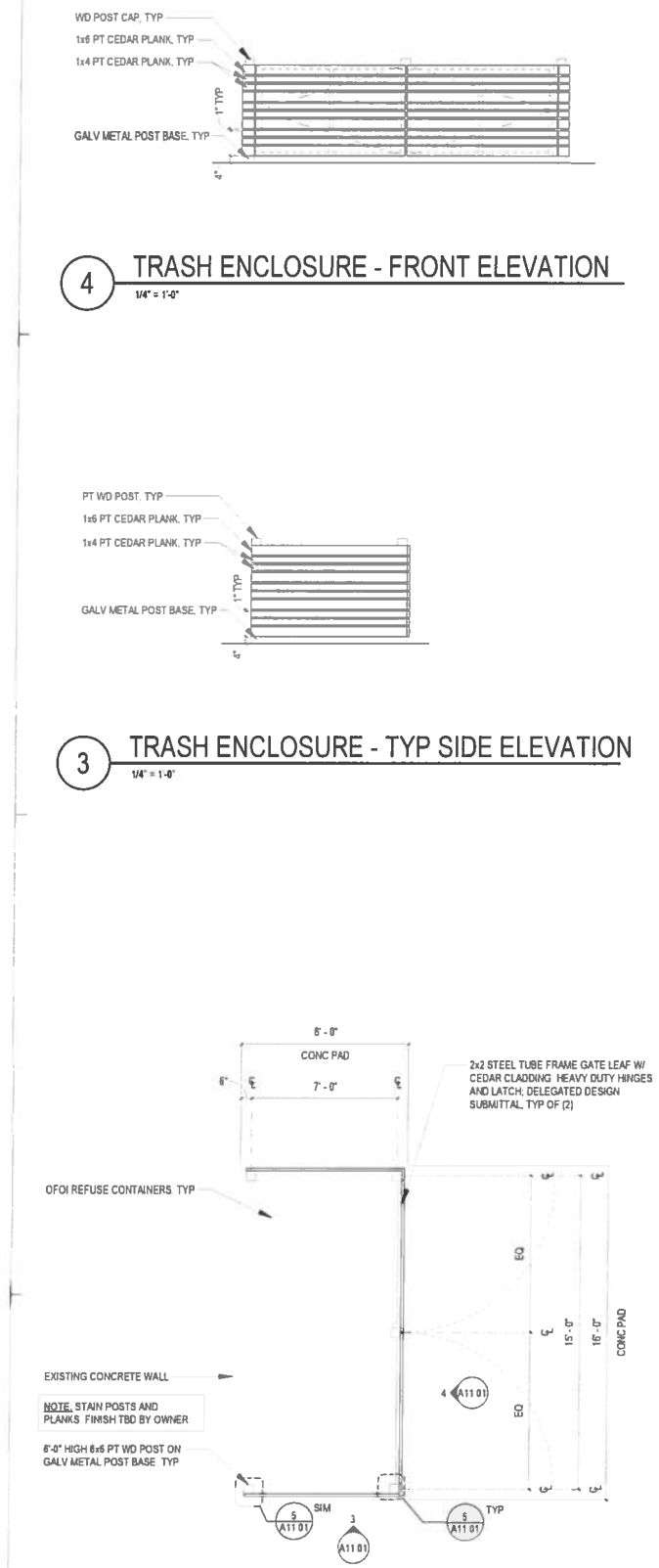


5 TRASH ENCLOSURE - CORNER DETAIL

3" = 1'-0"

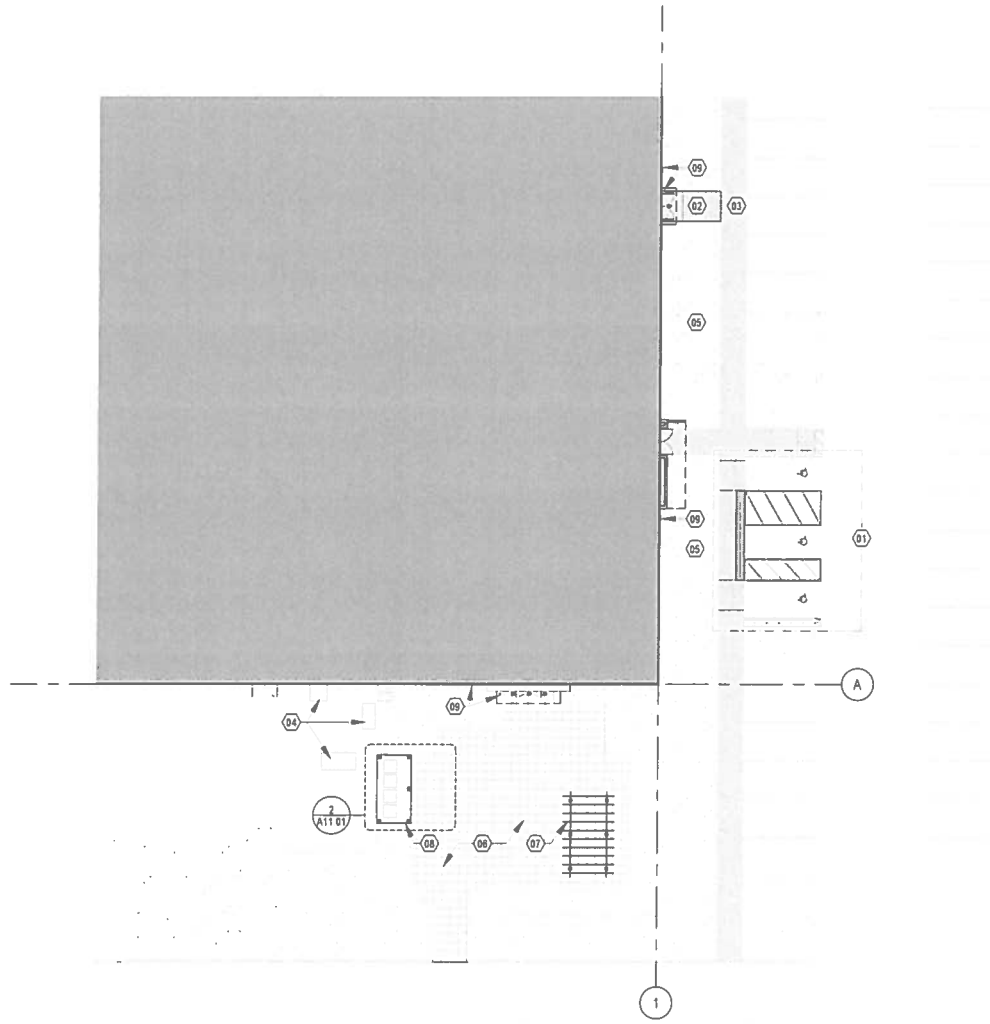
3 TRASH ENCLOSURE - TYP SIDE ELEVATION

1/4" = 1'-0"



2 TRASH ENCLOSURE - ENLARGED PLAN

1/4" = 1'-0"



1 ENLARGED ARCHITECTURAL SITE PLAN

1" = 20'-0"

NORTH

NOTES & LEGEND - SITE PLAN

1. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE INFORMATION AND SCOPE OF WORK

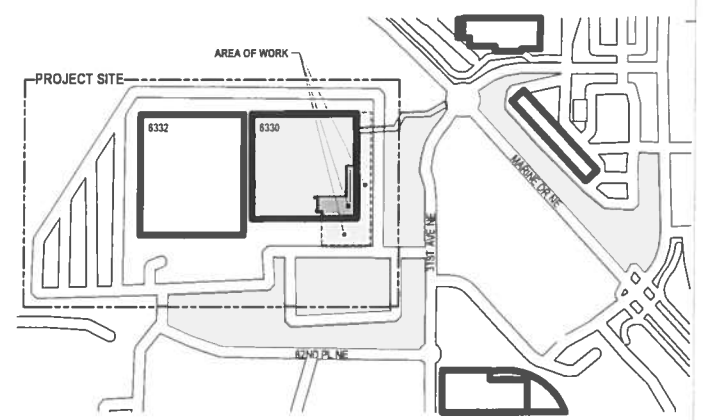
LANDSCAPING
SIDEWALK
PAVERS
DETECTABLE WARNING SURFACE
BUILDING OUTLINE
EXTENT OF ELEMENT ABOVE

KEY NOTES - SITE PLAN

#	NOTE DESCRIPTION
01	ACCESSIBLE PARKING AND SITE IMPROVEMENTS; SEE CIVIL DRAWINGS.
02	NEW SIDEWALK PER CIVIL.
03	EXISTING SIDEWALK. SEE CIVIL DRAWINGS FOR EXTENT OF WORK.
04	CONCRETE HOUSEKEEPING PADS PER STRUCTURAL
05	EXISTING BERM. SEE LANDSCAPE AND CIVIL DRAWINGS.
06	COURTYARD IMPROVEMENTS. SEE LANDSCAPE DRAWINGS.
07	REINSTALL SALVAGED PERGOLA PER LANDSCAPE DRAWINGS. CLEAN/POWER WASH AND RE-TREAT
08	TRASH ENCLOSURE.
09	DOWNSPOUT. SEE CIVIL DRAWINGS. SEE EXTERIOR ELEVATIONS FOR SCUPPER COLLECTION BOX LOCATIONS.

OVERALL SITE PLAN (FOR REFERENCE ONLY)

NORTH



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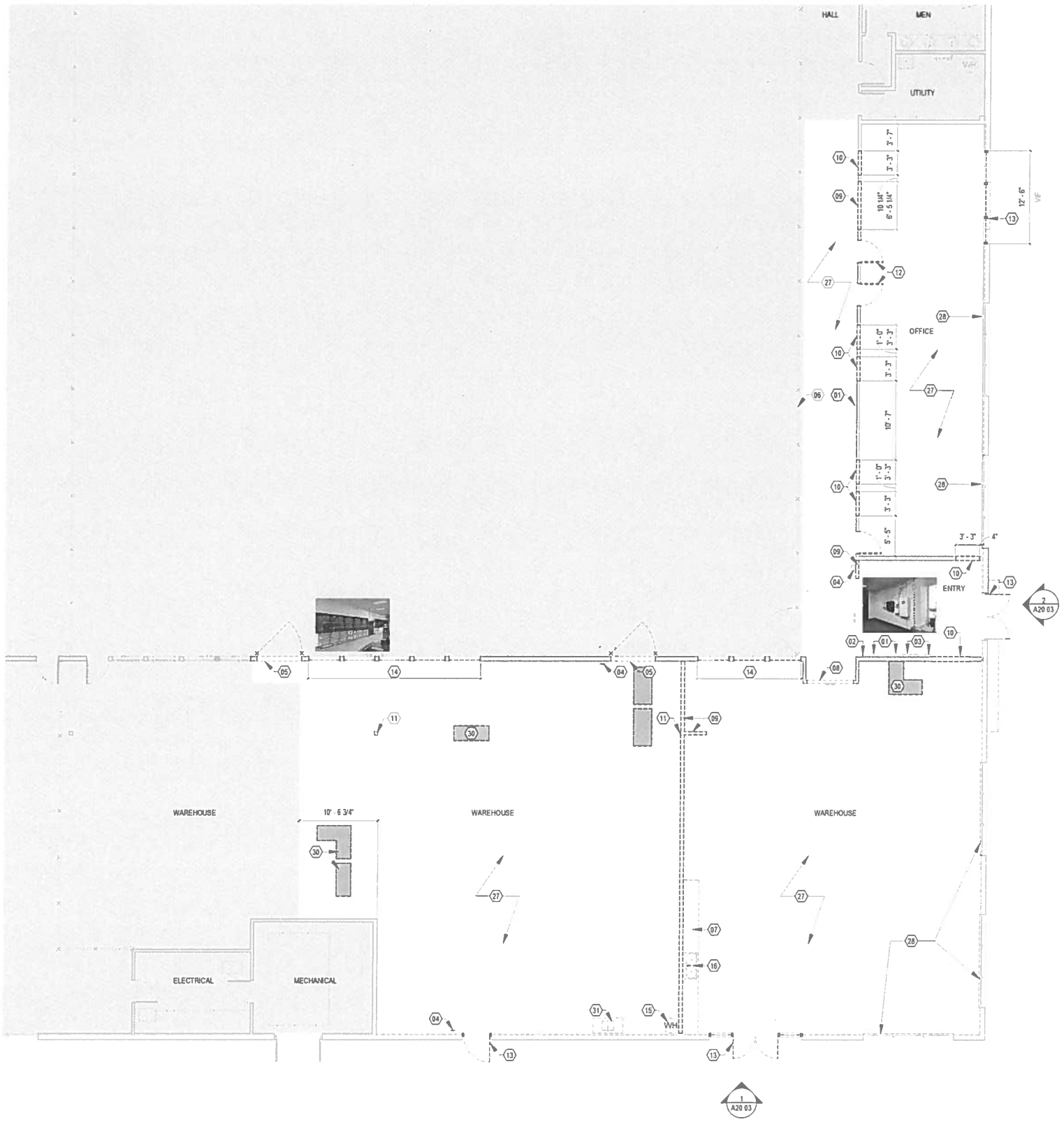
PROJECT # 2016106 11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

ARCHITECTURAL SITE PLAN & SITE DETAILS

SHEET #
A11.01



1 DEMO FLOOR PLAN
1/8" = 1'-0"

NOTES & LEGEND - DEMOLITION

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.
2. CONTRACTOR TO PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC AT AREAS OF WORK.
3. CONTRACTOR TO PRESERVE AND PROTECT EXISTING CONSTRUCTION AND LIFE SAFETY SYSTEMS TO REMAIN.
4. CONTRACTOR TO COORDINATE REMOVAL AND STORAGE OF EXISTING FURNITURE, FIXTURES, EQUIPMENT, AND ASSOCIATED HARDWARE TO BE SALVAGED AND STORED DURING CONSTRUCTION WITH OWNER.
5. PROTECT IN PLACE ALL EXISTING STRUCTURAL ELEMENTS, TYPICAL UNO.
6. AT EXISTING WALLS TO REMAIN, REMOVE WALL FINISHES DOWN TO SUBSTRATE AND REPLACE GWB. PREPARE WALLS TO RECEIVE NEW FINISHES.
7. DEMO ACT CEILING SYSTEMS, GYPSUM BOARD CEILINGS AND SOFFITS, AND LIGHTING, TYPICAL UNO.
8. AT EXISTING CEILINGS TO REMAIN, REMOVE CEILING FINISHES DOWN TO SUBSTRATE AND REPLACE GWB. PREPARE CEILINGS TO RECEIVE NEW FINISHES.
9. MEP SYSTEMS AND DEVICES TO BE REMOVED AND REPLACED TO ACCOMMODATE NEW PLAN CONFIGURATION, INCLUDING BUT NOT LIMITED TO:
   A. ROOFTOP UNITS
   B. HVAC DUCTWORK
   C. GRILLES & DIFFUSERS
10. PROTECT IN PLACE EXISTING EXTERIOR WALL PENETRATIONS AND UTILITIES NOT INDICATED TO BE DEMOLISHED PROPERLY SEAL/CAP EXISTING CONNECTIONS PRIOR TO WORK (I.E. HOSE BIBBS, SECURITY CAMERAS, WALL VENTS, OUTLETS, ETC.). COORDINATE EXTENSION OF EXISTING PENETRATIONS THROUGH NEW EXTERIOR WALLS.
11. SEE CIVIL AND LANDSCAPE DRAWINGS FOR SCOPE PERTAINING TO SITE WORK.
12. SEE NETWORK & COMMUNICATIONS DRAWINGS FOR SCOPE PERTAINING TO AV/IT/SECURITY/COMMUNICATION SYSTEMS.

EXISTING ELEMENT TO REMAIN

DEMOLITION ELEMENT

OUT OF SCOPE

EXTENTS OF DEMOLITION ELEMENT

KEY NOTES - DEMOLITION

#	NOTE DESCRIPTION
01	ELECTRICAL PANELS AND CONDUIT TO REMAIN. PROTECT IN PLACE.
02	REMOVE FIRE ALARM PULL STATION. PROTECT AND STORE FOR REUSE.
03	REMOVE KEY SAFE AND TIME CLOCK CARD READER. PROTECT AND STORE FOR REUSE.
04	REMOVE FIRE EXTINGUISHER/CABINET.
05	REMOVE CHAINLINK GATE.
06	PROTECT CHAINLINK FENCE/GATE DURING CONSTRUCTION.
07	REMOVE CASEWORK. PROTECT AND STORE FOR REUSE BY OWNER.
08	PREP OPENING TO RECEIVE NEW DOOR(S) PER FLOOR PLAN.
09	DEMO WALL.
10	DEMO WALL AS NEEDED TO ACCOMMODATE NEW DOOR PER FLOOR PLAN.
11	STRUCTURAL COLUMN. PROTECT IN PLACE.
12	DEMO DOOR.
13	DEMO STOREFRONT.
14	DEMO WINDOW(S).
15	DEMO WATER HEATER.
16	DEMO SINK; SEE PLUMBING DRAWINGS.
17	REMOVE EXIT SIGN.
18	REMOVE HANGING CONDUIT. PROTECT AND CAP CONNECTIONS.
19	DEMO BULKHEAD.
20	DEMO FLUE(S). SEE MECHANICAL DRAWINGS.
21	CUT BACK ACT CEILING GRID IN WAREHOUSE WHERE CEILING IS TO REMAIN. PROTECT IN PLACE.
22	DEMO BLUE ENTRY AWNING.
23	REMOVE BANNERS AROUND ENTIRE BUILDING.
24	BERM TO REMAIN IN PLACE. SEE LANDSCAPE DRAWINGS.
25	SITE WALL TO REMAIN. PROTECT IN PLACE. CLEAN/POWER WASH AND PREPARE TO RECEIVE NEW FINISHES.
26	REMOVE PERGOLA AND STEEL POST BASES. PROTECT AND STORE FOR REUSE.
27	REMOVE ALL FLOORING. PATCH AND PREP SUBFLOOR TO RECEIVE NEW FLOORING.
28	REMOVE ALL WINDOW COVERINGS. PATCH WINDOW TRIM.
29	REMOVE ALL LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
30	SLAB CUT FOR NEW BELOW-GROUND PIPING. SEE PLUMBING DRAWINGS.
31	REMOVE SINK, FAUCET, AND BASE CABINET. PROTECT AND STORE FOR REUSE.

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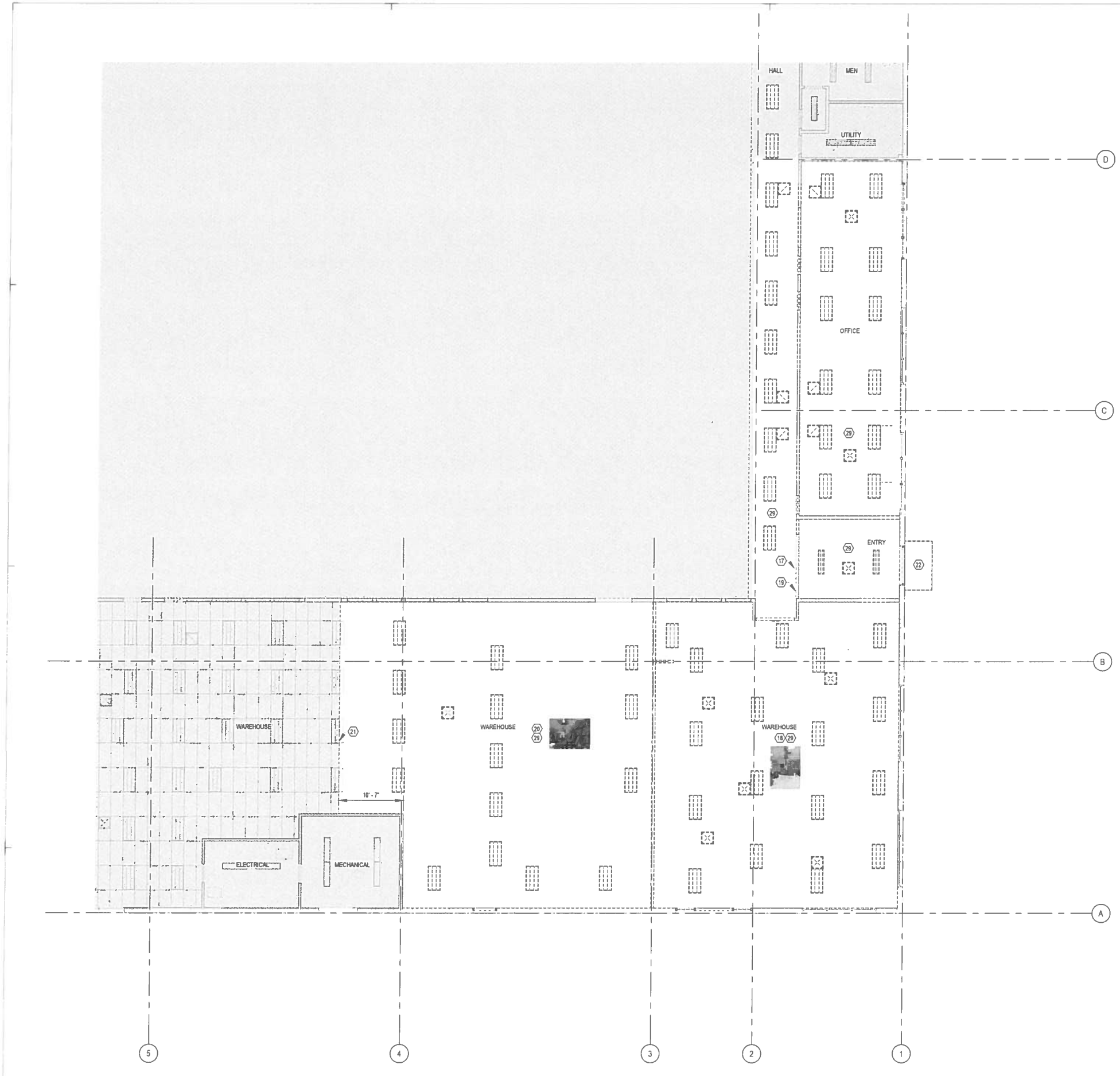
PROJECT # 20161016.11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

DEMO FLOOR PLAN

SHEET #
A20.01



1 DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"

NORTH

NOTES & LEGEND - DEMOLITION

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11. SEE CIVIL AND LANDSCAPE DRAWINGS FOR SCOPE PERTAINING TO SITE WORK
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EXISTING ELEMENT TO REMAIN

DEMOLITION ELEMENT

OUT OF SCOPE

EXTENTS OF DEMOLITION ELEMENT

KEY NOTES - DEMOLITION

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02	REMOVE FIRE ALARM PULL STATION. PROTECT AND STORE FOR REUSE.
03	REMOVE KEY SAFE AND TIME CLOCK CARD READER; PROTECT AND STORE FOR REUSE.
04	REMOVE FIRE EXTINGUISHER/CABINET
05	REMOVE CHAINLINK GATE.
06	PROTECT CHAINLINK FENCE/GATE DURING CONSTRUCTION
07	REMOVE CASEWORK. PROTECT AND STORE FOR REUSE BY OWNER.
08	PREP OPENING TO RECEIVE NEW DOOR(S) PER FLOOR PLAN.
09	DEMO WALL.
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13	DEMO STOREFRONT
14	DEMO WINDOW(S)
15	DEMO WATER HEATER.
16	DEMO SINK. SEE PLUMBING DRAWINGS.
17	REMOVE EXIT SIGN.
18	REMOVE HANGING CONDUIT. PROTECT AND CAP CONNECTIONS
19	DEMO BULKHEAD
20	DEMO FLUE(S). SEE MECHANICAL DRAWINGS.
21	CUT BACK ACT CEILING GRID IN WAREHOUSE WHERE CEILING IS TO REMAIN. PROTECT IN PLACE.
22	DEMO BLUE ENTRY AWNING.
23	REMOVE BANNERS AROUND ENTIRE BUILDING
24	BERM TO REMAIN IN PLACE. SEE LANDSCAPE DRAWINGS.
25	SITE WALL TO REMAIN. PROTECT IN PLACE. CLEAN/POWER WASH AND PREPARE TO RECEIVE NEW FINISHES.
26	REMOVE PERGOLA AND STEEL POST BASES; PROTECT AND STORE FOR REUSE
27	REMOVE ALL FLOORING; PATCH AND PREP SUBFLOOR TO RECEIVE NEW FLOORING.
28	REMOVE ALL WINDOW COVERINGS. PATCH WINDOW TRIM.
29	REMOVE ALL LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
30	SLAB CUT FOR NEW BELOW-GROUND PIPING. SEE PLUMBING DRAWINGS
31	REMOVE SINK, FAUCET, AND BASE CABINET. PROTECT AND STORE FOR REUSE.

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DEMO REFLECTED CEILING PLAN

SHEET #
A20.02

NOTES & LEGEND - DEMOLITION

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.
2. CONTRACTOR TO PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC AT AREAS OF WORK.
3. CONTRACTOR TO PRESERVE AND PROTECT EXISTING CONSTRUCTION AND LIFE SAFETY SYSTEMS TO REMAIN.
4. CONTRACTOR TO COORDINATE REMOVAL AND STORAGE OF EXISTING FURNITURE, FIXTURES, EQUIPMENT, AND ASSOCIATED HARDWARE TO BE SALVAGED AND STORED DURING CONSTRUCTION WITH OWNER.
5. PROTECT IN PLACE ALL EXISTING STRUCTURAL ELEMENTS, TYPICAL UNO.
6. AT EXISTING WALLS TO REMAIN: REMOVE WALL FINISHES DOWN TO SUBSTRATE AND REPLACE GWB. PREPARE WALLS TO RECEIVE NEW FINISHES.
7. DEMO ACT CEILING SYSTEMS, GYPSUM BOARD CEILINGS AND SOFFITS, AND LIGHTING, TYPICAL UNO.
8. AT EXISTING CEILINGS TO REMAIN: REMOVE CEILING FINISHES DOWN TO SUBSTRATE AND REPLACE GWB. PREPARE CEILINGS TO RECEIVE NEW FINISHES.
9. MEP SYSTEMS AND DEVICES TO BE REMOVED AND REPLACED TO ACCOMMODATE NEW PLAN CONFIGURATION, INCLUDING BUT NOT LIMITED TO:
   A. ROOFTOP UNITS
   B. HVAC DUCTWORK
   C. GRILLES & DIFFUSERS
10. PROTECT IN PLACE EXISTING EXTERIOR WALL PENETRATIONS AND UTILITIES NOT INDICATED TO BE DEMOLISHED. PROPERLY SEAL/CAP EXISTING CONNECTIONS PRIOR TO WORK (I.E. HOSE BIBBS, SECURITY CAMERAS, WALL VENTS, OUTLETS, ETC.). COORDINATE EXTENSION OF EXISTING PENETRATIONS THROUGH NEW EXTERIOR WALLS.
11. SEE CIVIL AND LANDSCAPE DRAWINGS FOR SCOPE PERTAINING TO SITE WORK.
12. SEE NETWORK & COMMUNICATIONS DRAWINGS FOR SCOPE PERTAINING TO AV/IT/SECURITY/COMMUNICATION SYSTEMS.

EXISTING ELEMENT TO REMAIN

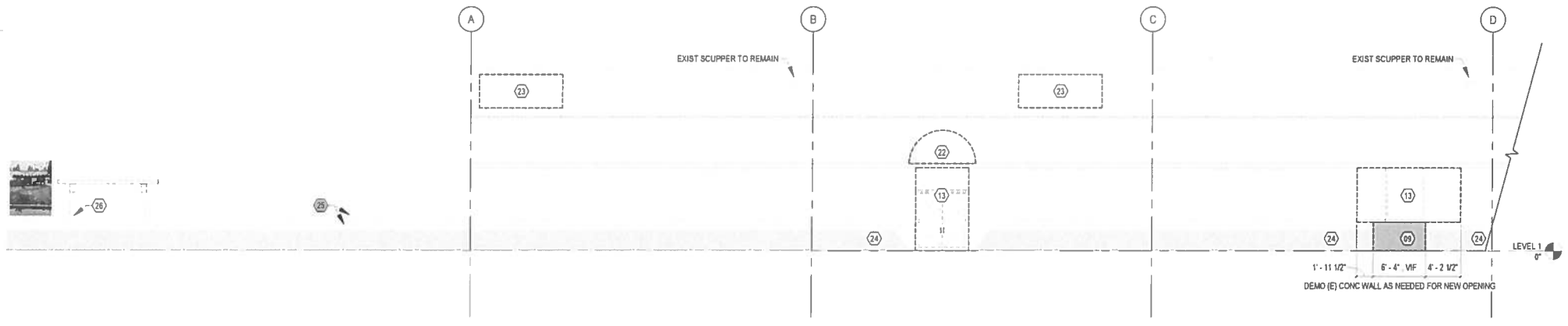
DEMOLITION ELEMENT

OUT OF SCOPE

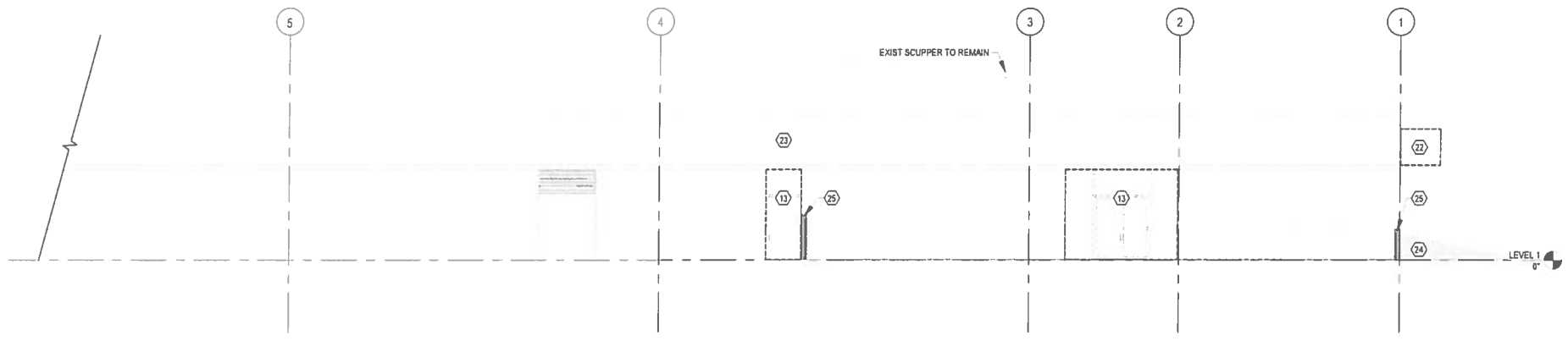
EXTENTS OF DEMOLITION ELEMENT

KEY NOTES - DEMOLITION

#	NOTE DESCRIPTION
01	ELECTRICAL PANELS AND CONDUIT TO REMAIN. PROTECT IN PLACE.
02	REMOVE FIRE ALARM PULL STATION. PROTECT AND STORE FOR REUSE.
03	REMOVE KEY SAFE AND TIME CLOCK CARD READER. PROTECT AND STORE FOR REUSE.
04	REMOVE FIRE EXTINGUISHER/CABINET.
05	REMOVE CHAINLINK GATE.
06	PROTECT CHAINLINK FENCE/GATE DURING CONSTRUCTION.
07	REMOVE CASEWORK. PROTECT AND STORE FOR REUSE BY OWNER.
08	PREP OPENING TO RECEIVE NEW DOOR(S) PER FLOOR PLAN.
09	DEMO WALL.
10	DEMO WALL AS NEEDED TO ACCOMMODATE NEW DOOR PER FLOOR PLAN.
11	STRUCTURAL COLUMN. PROTECT IN PLACE.
12	DEMO DOOR.
13	DEMO STOREFRONT.
14	DEMO WINDOW(S).
15	DEMO WATER HEATER.
16	DEMO SINK. SEE PLUMBING DRAWINGS.
17	REMOVE EXIT SIGN.
18	REMOVE HANGING CONDUIT. PROTECT AND CAP CONNECTIONS.
19	DEMO BULKHEAD.
20	DEMO FLUE(S). SEE MECHANICAL DRAWINGS.
21	CUT BACK ACT CEILING GRID IN WAREHOUSE WHERE CEILING IS TO REMAIN. PROTECT IN PLACE.
22	DEMO BLUE ENTRY AWNING.
23	REMOVE BANNERS AROUND ENTIRE BUILDING.
24	BERM TO REMAIN IN PLACE. SEE LANDSCAPE DRAWINGS.
25	SITE WALL TO REMAIN. PROTECT IN PLACE. CLEAN/POWER WASH AND PREPARE TO RECEIVE NEW FINISHES.
26	REMOVE PERGOLA AND STEEL POST BASES. PROTECT AND STORE FOR REUSE.
27	REMOVE ALL FLOORING. PATCH AND PREP SUBFLOOR TO RECEIVE NEW FLOORING.
28	REMOVE ALL WINDOW COVERINGS. PATCH WINDOW TRIM.
29	REMOVE ALL LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
30	SLAB CUT FOR NEW BELOW-GROUND PIPING. SEE PLUMBING DRAWINGS.
31	REMOVE SINK, FAUCET, AND BASE CABINET. PROTECT AND STORE FOR REUSE.



2 DEMOLITION ELEVATION - EAST FACADE
1/8" = 1'-0"



1 DEMOLITION ELEVATION - SOUTH ELEVATION
1/8" = 1'-0"

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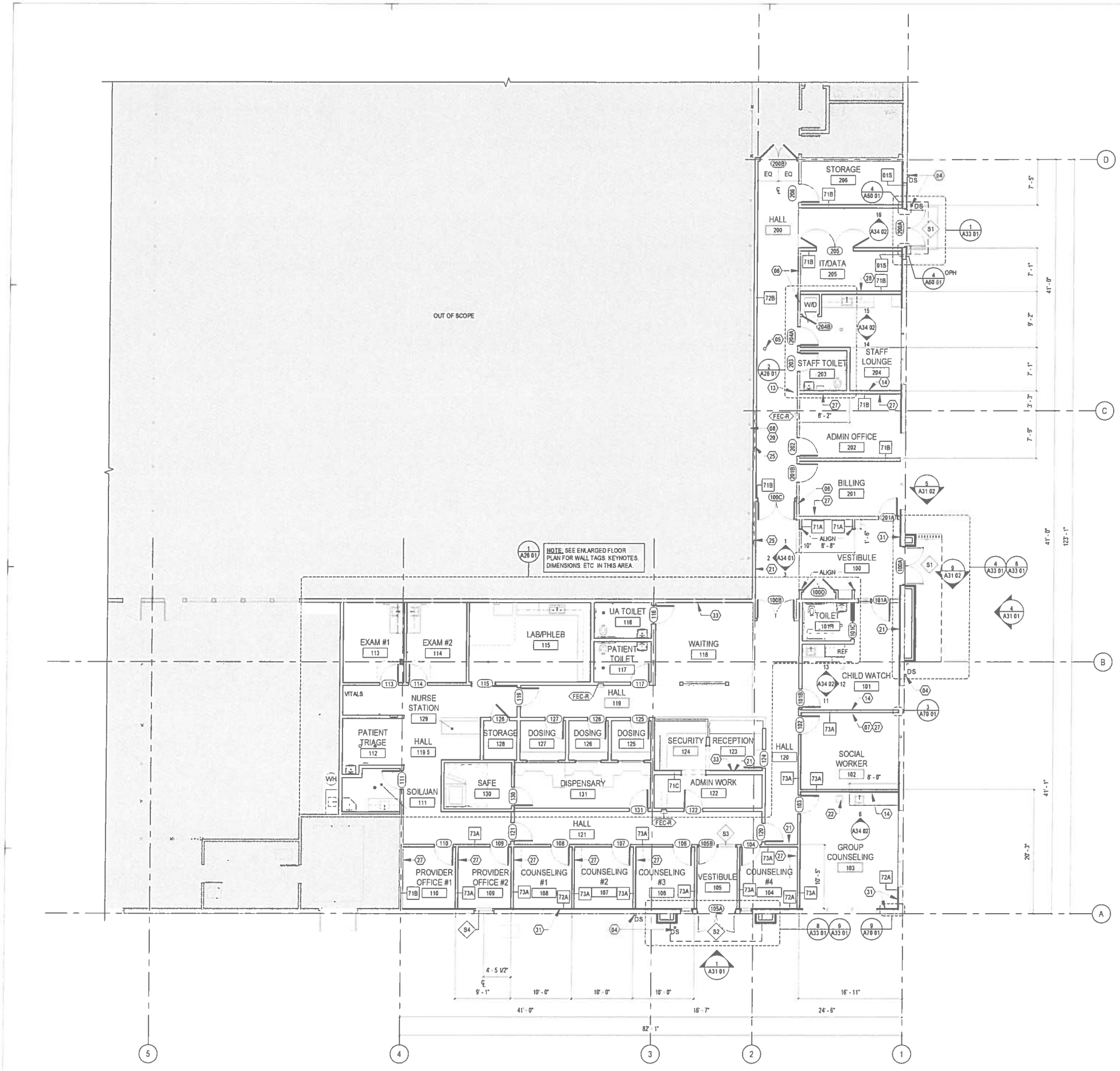
DEMOLITION ELEVATIONS

SHEET #
A20.03



1 FLOOR PLAN
1/8" = 1'-0"

NOTES & LEGEND - FLOOR PLANS

1. DIMENSIONS ARE TO ROUGH FRAMING OR TO FACE OF EXISTING FINISHES. TYP UNO.
2. DIMENSIONS INDICATED AS "MIN" OR "CLR" ARE FROM NEAREST FINISH SURFACE, INCLUDING TRIM.
3. ROUGH DOOR OPENINGS ARE LOCATED 5" FROM NEAREST INTERSECTING WALL FRAMING, TYP UNO.
4. PROVIDE BLOCKING REINFORCEMENT FOR THE INSTALLATION OF ALL GRAB BARS, PLUMBING FIXTURES, AND ALL OTHER WALL-MOUNTED ACCESSORIES/EQUIPMENT.
5. SEE SHEET A00.03 FOR ASSEMBLY TYPES AND CONSTRUCTION.
6. SEE SHEET A01.01 FOR CODE REQUIRED EMERGENCY EXIT SIGN LOCATIONS.
7. SEE SHEET A04.01FOR TYPICAL ACCESSIBILITY DETAILS AND MOUNTING HEIGHTS NOT REFERENCED IN PLAN OR INTERIOR ELEVATIONS.
8. SEE A34 SERIES SHEETS FOR INTERIOR ELEVATIONS AND ITEMS TO BE OFOI, OFCI, AND/OR CFCI.
9. PREPARE FLOOR SLAB TO RECEIVE NEW FINISHES.

EXISTING ELEMENT TO REMAIN
NEW CONSTRUCTION ELEMENT
OUT OF SCOPE
EXTENT OF ELEMENT ABOVE
HAND SANITIZER DISPENSER
CORNER GUARD / END WALL GUARD

KEY NOTES - FLOOR PLAN

#	NOTE DESCRIPTION
01	WORK SURFACE/COUNTER PER INTERIOR ELEVATIONS.
02	CLOSET TO ENCASE EXISTING ELECTRICAL PANELS AND CONDUIT.
03	INSTALL SALVAGED FIRE ALARM PULL STATION.
04	DOWNSPOUT. SEE CIVIL DRAWINGS FOR CONNECTION.
05	FLOOR CLEANOUT. SEE PLUMBING DRAWINGS.
06	INFILL OPENING TO MATCH EXISTING ADJACENT WALL ASSEMBLY.
07	NEW WALL CENTERED ON EXISTING MULLION.
08	EXISTING CHAINLINK FENCE/GATE.
09	WATER HEATER/ PUMP/EXPANSION TANK. SEE PLUMBING DRAWINGS.
10	FLOOR DRAIN. SEE PLUMBING DRAWINGS.
11	PRIVACY CURTAIN AND TRACK. PER FINISH SCHEDULE.
12	EXISTING COLUMN.
13	EXISTING ELECTRICAL PANELS AND CONDUIT.
14	WALL-MOUNTED TV. OFCI. PROVIDE BACKING.
15	SPECIMEN PASS-THRU. CFCI.
16	THROUGH-WALL VENT.
17	(10) WOOD-LOOK ALUMINUM BATTENS, EQUALLY SPACED.
18	CARD READER.
19	ACCESSIBLE PUSH PLATE.
20	RENTAL, INSTALLATION, AND REMOVAL OF 98'-0" OF SECURITY FENCING. FENCING HEIGHT TO RUN TO EXISTING CEILING.
21	ART WALL. KEEP WALL CLEAN OF WALL-MOUNTED ITEMS, SUCH AS THERMOSTATS. RECEPTACLES AT 18" AFF ARE ACCEPTABLE.
22	WATER DISPENSER, OFCI. PROVIDE WATER LINE AND POWER.
23	SECURITY WINDOW WITH ONE-WAY VISION GLASS.
24	STOREFRONT ENTRY WALL SIGN.
25	PROVIDE HEADER FRAMING FOR FUTURE OPENING. SEE STRUCTURAL DRAWINGS.
26	CHILD-HEIGHT TOILET.
27	PROVIDE IN-WALL BACKING FOR FUTURE WALL-MOUNTED FURNITURE. TO BE COORDINATED W/FURNITURE VENDOR.
28	PROVIDE FIRE-RATED PLYWOOD. THIS WALL ONLY.
29	INSTALL SALVAGED SINK, FAUCET, AND BASE CABINET.
30	RECESSED CUSTOM SHELF UNIT. SEE INTERIOR ELEVATION.
31	FIELD VERIFY GWB FURRING EXISTS ALONG EXTERIOR PERIMETER WALLS AND ARE OF ADEQUATE DEPTH TO INSTALL NEW UTILITIES. IF ADEQUATE GWB FURRING EXISTS, PATCH AND PREP TO RECEIVE NEW FINISHES. IF FURRING DOES NOT EXIST, PROVIDE GWB FURRING ALONG LENGTH OF EXTERIOR PERIMETER WALLS WITHIN AREA OF WORK. EXTEND FROM EXISTING SLAB TO BOTTOM OF ROOF DECK.
32	FIELD VERIFY EXISTING WALL EXTENDS TO BOTTOM OF ROOF DECK. IF NOT, EXTEND WALL ASSEMBLY TO BOTTOM OF ROOF DECK.
33	PROVIDE IN-WALL BACKING FOR FUTURE WALL-MOUNTED ARTWORK BY OWNER.
34	4" DIAMETER DOWNSPOUT Y-CONNECTOR ABOVE; SEE EXTERIOR ELEVATIONS.

ADD ALTERNATES

1. REPLACE WOOD STUDS WITH COMPARABLE METAL STUDS IF COST OF WOOD FRAMING EXCEEDS METAL FRAMING
2. COMPLETE CLEANING, PREP, AND PAINTING OF NORTH SIDE OF BUILDING (ADDRESSED 6330) TO MATCH EAST AND SOUTH BUILDING FACADES, AS INDICATED ON SHEET A31.01
3. COMPLETE CLEANING, PREP, AND PAINTING OF BOTH BUILDINGS ON SITE (ADDRESSED 6330 AND 6331) TO MATCH BUILDING FACADES INDICATED ON SHEET A31.01

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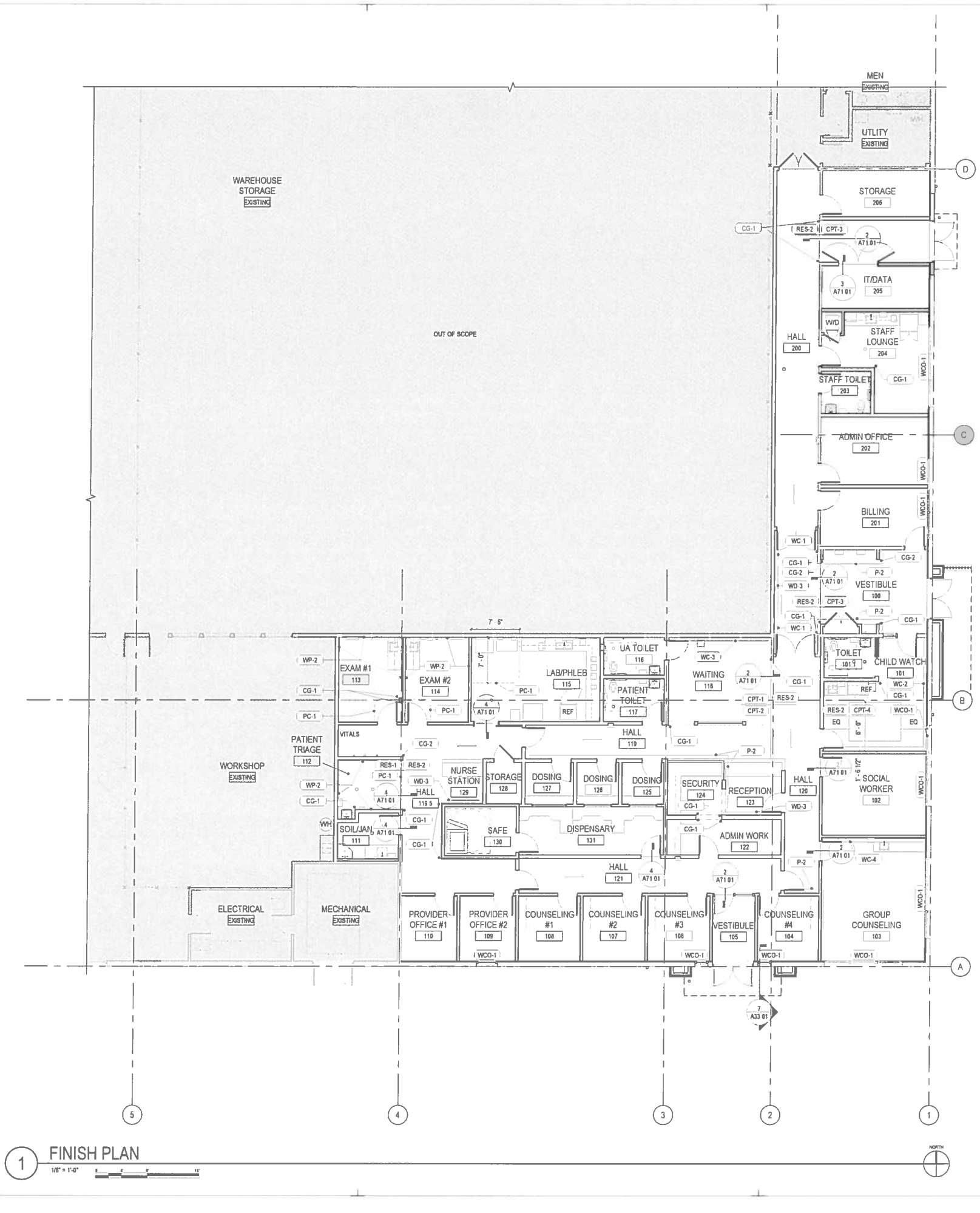
FLOOR PLAN

SHEET #
A22.01



1 FINISH PLAN
1/8" = 1'-0"

NOTES & LEGEND - FINISH PLAN

1. WALL FINISHES TRANSITION AT INSIDE CORNERS, TYP UNO
2. FLOORING TRANSITIONS FALL UNDER DOOR LEAF, TYP UNO

FIN-1 | FIN-2 FLOOR FINISH TRANSITION
TRANSITION LINE

FINISH DIRECTION
ACCENT WALL FINISH EXTENT

ROOM FINISH SCHEDULE

ROOM INFORMATION		TYP FINISH INFORMATION, UNO				
NUMBER	NAME	WALL	BASE	FLOOR	CEILING	NOTES
100	VESTIBULE	P-1 / P 3 / WC 1 / WD-3	RES-3	CPT-3 / RES-2	P-1 / WD-2	SEE FINISH PLAN & INTERIOR ELEVATIONS
101	CHILD WATCH	P-1 / WC-2	RES-3	CPT-4 / RES-2	ACT-1	SEE FINISH PLAN & INTERIOR ELEVATIONS
101.1	TOILET	P-4	RES-1	RES-1	P-4	6" SELF-COVE BASE
102	SOCIAL WORKER	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
103	GROUP COUNSELING	P-1 / WC-4	RES-3	CPT-1 / CPT-2	ACT-1	SEE FINISH PLAN & INTERIOR ELEVATIONS
104	COUNSELING #4	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
105	VESTIBULE	P-1	RES-3	CPT-3	ACT-1	
106	COUNSELING #3	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
107	COUNSELING #2	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
108	COUNSELING #1	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
109	PROVIDER OFFICE #2	P-1	RES-3	RES-2	ACT-1	
110	PROVIDER OFFICE #1	P-1	RES-3	RES-2	ACT-1	
111	SOILIAN	P-1 / WP-1	RES-1	RES-1	ACT-2	6" SELF-COVE BASE, SEE INTERIOR ELEVATIONS
112	PATIENT TRIAGE	P-1	RES-1	RES-1	ACT-1	6" SELF-COVE BASE
113	EXAM #1	P-1	RES-3	RES-2	ACT-1	
114	EXAM #2	P-1	RES-3	RES-2	ACT-1	
115	LAB/PHLEB	P-1	RES-1	RES-1	ACT-1	6" SELF-COVE BASE
116	UA TOILET	P-4	RES-1	RES-1	P-4	6" SELF-COVE BASE
117	PATIENT TOILET	P-4	RES-1	RES-1	P-4	6" SELF-COVE BASE
118	WAITING	P-1 / WC-3	RES-3	CPT-1 / CPT-2	P-1 / ACT-1	SEE FINISH PLAN, INTERIOR ELEVATIONS, RCP
119	HALL	P-1 / WD-3	RES-3	RES-2	P-1 / ACT-1	SEE FINISH PLAN, INTERIOR ELEVATIONS, RCP
119.5	HALL	P-1	RES-3	RES-2	P-1 / ACT-1	SEE RCP
120	HALL	P-1 / P-2	RES-3	RES-2	P-1 / ACT-1	SEE FINISH PLAN & INTERIOR ELEVATIONS
121	HALL	P-1	RES-3	RES-2	ACT-1	
122	ADMIN WORK	P-1	RES-3	RES-2	ACT-1	
123	RECEPTION	P-1 / WD-3	RES-3	RES-2	P-1 / WD-2	SEE FINISH PLAN & INTERIOR ELEVATIONS
124	SECURITY	P-1	RES-3	RES-2	ACT-1	
125	DOSING	P-1	RES-3	RES-2	P-1	
126	DOSING	P-1	RES-3	RES-2	P-1	
127	DOSING	P-1	RES-3	RES-2	P-1	
128	STORAGE	P-1	RES-3	RES-2	ACT-1	
129	NURSE STATION	P-1 / WD-3	RES-3	RES-2	WD-2	SEE FINISH PLAN & INTERIOR ELEVATIONS
130	SAFE	P-1	RES-3	RES-1	P-1	
131	DISPENSARY	P-1	RES-3	RES-1	P-1	
200	HALL	P-1	RES-3	CPT-3 / RES-2	ACT-1	
201	BILLING	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
202	ADMIN OFFICE	P-1	RES-3	CPT-1 / CPT-2	ACT-1	
203	STAFF TOILET	P-4	RES-1	RES-1	P-4	6" SELF-COVE BASE
204	STAFF LOUNGE	P-1	RES-3	RES-2	ACT-1	
205	IT/DATA	P-1	RES-3	CONCRETE	ACT-1	
206	STORAGE	P-1	RES-3	RES-2	ACT-1	

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FINISH PLAN & ROOM FINISH SCHEDULE

SHEET #
A23.01

INTERIOR FINISH LEGEND

TAG	MATERIAL	MANUFACTURER	PRODUCT	FINISH	CONTACT	NOTES
ACOUSTICAL CEILING TILE						
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	#1911 ULTIMA BEVELED TEGULAR 2'X2'. PRELUDE 15/16" GRID. COLOR: WHITE	-	SHANE HENDRICKS. SHENDRICKS@ARMSTRONGCEILING.COM	
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	#668 CLEAN ROOM VL UNPERFORATED. 2'X2' SQUARE LAY IN. CLEAN ROOM 15/16" GRID. COLOR: WHITE	-	SHANE HENDRICKS. SHENDRICKS@ARMSTRONGCEILING.COM	
CARPET						
CPT-1	CARPET. MODULAR	MILLIKEN COMMERCIAL	DETAILS. 9 85"x39.4". COLOR: DET249 AQUA SHADE		JULIET SCHWALBACH. JULIET.SCHWALBACH@MILLIKEN.COM	INSTALLATION: HERRINGBONE
CPT-2	CARPET. MODULAR	MILLIKEN COMMERCIAL	DETAILS. 9 85"x39.4". COLOR: DET153 SHADOW TINT		JULIET SCHWALBACH. JULIET.SCHWALBACH@MILLIKEN.COM	INSTALLATION: HERRINGBONE
CPT-3	WALK OFF CARPET	MILLIKEN COMMERCIAL	OBEX TILE CUT - PATTERN: DRIFT - COLOR: GREY		JULIET SCHWALBACH. JULIET.SCHWALBACH@MILLIKEN.COM	INSTALLATION: BRICK ASHLAR
CPT-4	CARPET. MODULAR	SHAW CONTRACT	IMPRESSION III 57259. COLOR: COOL IM014. 24"X24"		PAUL GIBIAN. PAUL.GIBIAN@SHAWCONTRACT.COM	INSTALLATION: RANDOM. DRY LAY & CONTACT DESIGNER BEFORE FINAL INSTALLATION
GLAZING SURFACES FILM						
GLF-1	DECORATIVE FILM	TO BE DETERMINED	FILM & DESIGN BY OWNER	-	-	-
MISC						
CG-1	CORNER GUARD	CS ACROVYN	CORNER GUARD. 2" WINGS. COLOR: 933 MISSION WHITE	SUEDE	-	48" ABOVE BASE. UNO
CG-2	END WALL GUARD	CS ACROVYN	END WALL GUARD. 2" WINGS. COLOR: 933 MISSION WHITE	SUEDE	-	48" ABOVE BASE. UNO
PC-1	PRIVACY CURTAIN & TRACK	MEDLINE, OR EQUAL	FABRIC: ARCHITEX-RX 6017 CATALPA. TRACK: CLG-MTD SUPREME CUBICLE CURTAIN TRACK HARDWARE W/SPOOL CARRIERS	-	-	18" MESH AT TOP
TKB-1	TACKBOARD	FORBO	BULLETIN BOARD. 0.25" THICK. COLOR: 2206 OYSTER SHELL. INSTALL WITH ADHESIVE RECOMM. BY MANUF.		STEVE STEIN. STEVE.STEIN@FORBO.COM	LOCATIONS PER INTERIOR ELEVATIONS
WCO-1	WINDOW COVERING	HUNTER DOUGLAS ARCHITECTURAL, OR EQUAL	FR ROLLER SHADES. MANUAL SHADE W/FASCIA. OUTSIDE MOUNT. COLOR: WHITE. FABRIC: 1% OPENNESS. COLOR/WEAVE TO BE DETERMINED		-	LOCATIONS PER FINISH PLAN
WP-1	WALL PROTECTION	CS ACROVYN	4000 RIGID VINYL PANELS. 0.060. COLOR: 933 MISSION WHITE	SUEDE	-	HEIGHT PER INTERIOR ELEVATIONS. FINISH W/J-MOLD AT TOP. UNO
WP-2	WALL PROTECTION	CS ACROVYN	CRASH RAIL SCR-R SERIES. 5"H. COLOR: 933 MISSION WHITE		-	HEIGHT PER INTERIOR ELEVATIONS
PAINT						
P-1	INTERIOR PAINT	SHERWIN WILLIAMS	SW7103 WHITETAIL	SATIN/EGGSHELL	-	-
P-2	INTERIOR PAINT	BENJAMIN MOORE	BLUE HERON 832	SATIN/EGGSHELL	-	-
P-3	INTERIOR PAINT	BENJAMIN MOORE	TO BE DETERMINED	SEMI-GLOSS	-	HM DOOR & TRIM PAINT
P-4	INTERIOR PAINT-EPOXY	SHERWIN WILLIAMS	SW7103 WHITETAIL	SEMI-GLOSS	-	-
PLASTIC LAMINATE						
LAM-1	HIGH PRESSURE LAMINATE	WILSONART	PINNACLE WALNUT 7992-38	FINE VELVET TEXTURE	KIRSTEN SOLLY SOLLYK@WILSONART.COM	RUN GRAIN VERTICALLY. UNO
LAM-2	HIGH PRESSURE LAMINATE	WILSONART	LANDMARK WOOD 7981	FINE VELVET TEXTURE	KIRSTEN SOLLY. SOLLYK@WILSONART.COM	RUN GRAIN VERTICALLY. UNO
LAM-3	HIGH PRESSURE LAMINATE	WILSONART	HIGH RISE 4996-38	FINE VELVET TEXTURE	KIRSTEN SOLLY SOLLYK@WILSONART.COM	
RESILIENT						
RES-1	VINYL SHEET FLOORING	ARMSTRONG	MEDINTECH 84880. COLOR: DAHLIA SKY	-	NORA VIVARELLI. NORAV@PACMAT.COM	6" COVE BASE. UNO. HEAT WELDED SEAMS
RES-2	LUXURY VINYL TILE	MOHAWK	LIVING LOCAL C2039. 6"x48". COLOR: 838 BEAGLE	-	JULIA GUTT JULIA.GUTT@MOHAWKIND.COM	GLUE-DOWN
RES-3	RUBBER WALL BASE	ROPPE	4" COVE BASE. ROLL GOODS. COLOR: 193 BLACK BROWN		NORA VIVARELLI. NORAV@PACMAT.COM	-
SIMULATED STONE						
QTZ-1	QUARTZ COUNTERTOP	PENTAL	AVENZA HONED BQ8660H	-	RANDY BERG. RBERG@PENTALONLINE.COM	EASED EDGES
SOL-1	SOLID SURFACE COUNTERTOP	CORIAN	COLOR: BISQUE	-	TED LAMBERT. TEDL@4WILLIS.COM	EASED EDGES
WALL COVERING						
WC-1	VINYL WALL COVERING	TO BE DETERMINED	OWNER-PROVIDED PHOTO ON TYPE 2 VINYL WALLCOVERING		-	-
WC-2	VINYL WALL COVERING	HOVIA	TYLOSKOG-GREEN WATERCOLOR FOREST TREE SILHOUETTE WALLPAPER MURAL		WWW.HOVIA.COM	-
WC-3	VINYL WALL COVERING	HD WALLS	PATTERN: SPILL. COLOR: PACIFIC		WWW.HDWALLS.COM	-
WC-4	VINYL WALL COVERING	HD WALLS	LARGE SCALE CUSTOM GRAPHIC ON TYPE 2 VINYL WALLCOVERING		WWW.HDWALLS.COM	-
WOOD						
WD-1	WOOD PANELING	DuCHATEAU	INCEPTW-TRESSES. 3/4" THICK. COLOR: STOUT ON WALNUT	-	JON SPIGEL. JSPIGEL@DUCHATEAU.COM	INCLUDE CLASS 'A' FIRE RETARDANT. INSTALL W/CONSTRUCTION GLUE & NAILS PER MANUF. INSTRUCTIONS.
WD-2	SUSPENDED WOOD CEILING	ARCHITECTURAL COMPONENTS GROUP INC	LINEAR OPEN SERIES 2 (L02)	WALNUT-CLR SATIN SHEEN	SHANE HENDRICKS. SHENDRICKS@ARMSTRONGCEILING.COM	-
WD-3	WOOD WALL PANELING	ARCHITECTURAL COMPONENTS GROUP INC	LINEAR OPEN SERIES 1 (L01)	WALNUT-CLR SATIN SHEEN	SHANE HENDRICKS. SHENDRICKS@ARMSTRONGCEILING.COM	-

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INTERIOR FINISH LEGEND

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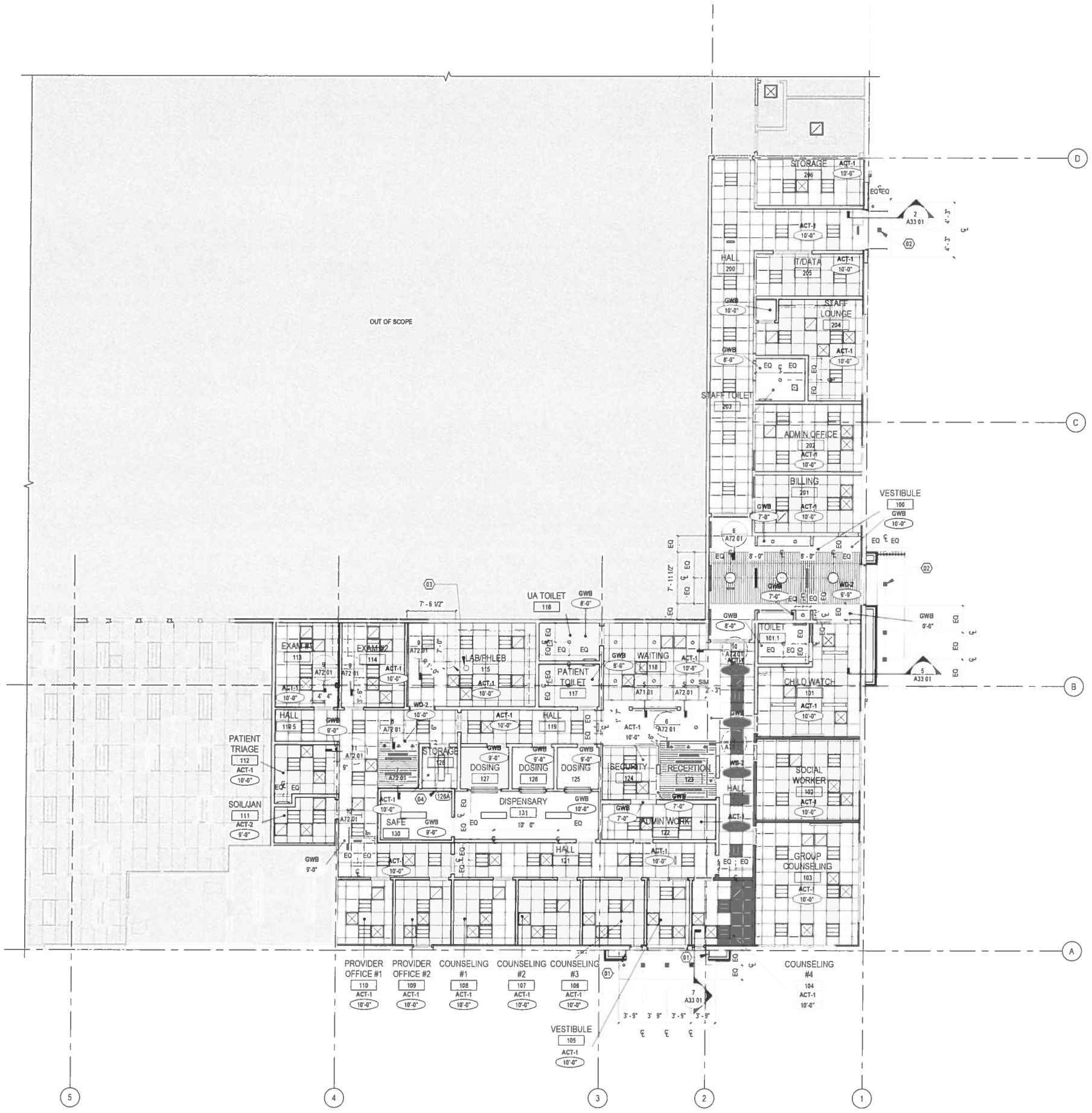
A23.02



1 REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

NOTES & LEGEND - REFLECTED CEILING PLAN

1. ARCHITECTURAL RCP PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR DETAILED SCOPE OF SYSTEMS
2. CEILING FIXTURES ARE CENTERED IN CEILING TILE OR CENTERED IN ROOM, TYP UNO
3. ACOUSTICAL CEILING GRID TO BE CENTERED IN ROOM OR HALLWAY UNO
4. DIMENSIONS IN CEILING PLANS ARE TO FACE OF FINISH, TYP UNO
5. GRAPHIC REPRESENTATION OF LIGHTING TYPES MAY BE NOT TO SCALE.
6. CENTER VANITY LIGHT FIXTURES OVER LAVATORY

CEILING	MEP
ACT 2X2	RECESSED DOWNLIGHT
WOOD PLANK	RECESSED WALL WASHER
GWB	RECESSED TROFFER, 2X2
OPEN TO STRUCTURE	RECESSED TROFFER, 2X4
CEILING-MTD PRIVACY CURTAIN TRACK	RECESSED LINEAR
SEE MECHANICAL. SIZES MAY VARY	PENDANT LINEAR
OUT OF SCOPE	PENDANT ROUND
	FLUSH-MOUNT ROUND
	SURFACE MOUNT LINEAR
	SURFACE MOUNT ROUND
	SURFACE MOUNT STRIP
	WALL SCONCE
	UNDER CABINET. SEE INTERIOR ELEVATIONS
	RECESSED LINEAR LIGHT
	EXIT SIGN

KEY NOTES - RCP

#	NOTE DESCRIPTION
01	THROUGH-WALL VENT. SEE EXTERIOR ELEVATIONS.
02	RECESSED EXTERIOR SOFFIT LIGHTING CENTERED IN SOFFIT
03	EMERGENCY SHOWER HEAD.
04	SAFE ROOM ATTIC ACESS DOOR. LOCATED ABOVE STORAGE ROOM CEILING.

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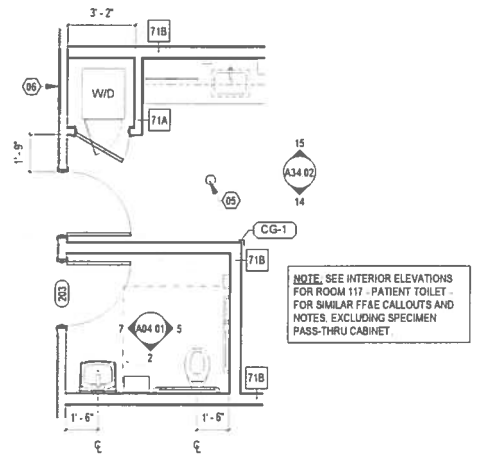
PROJECT # 2016106 11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

REFLECTED CEILING PLAN

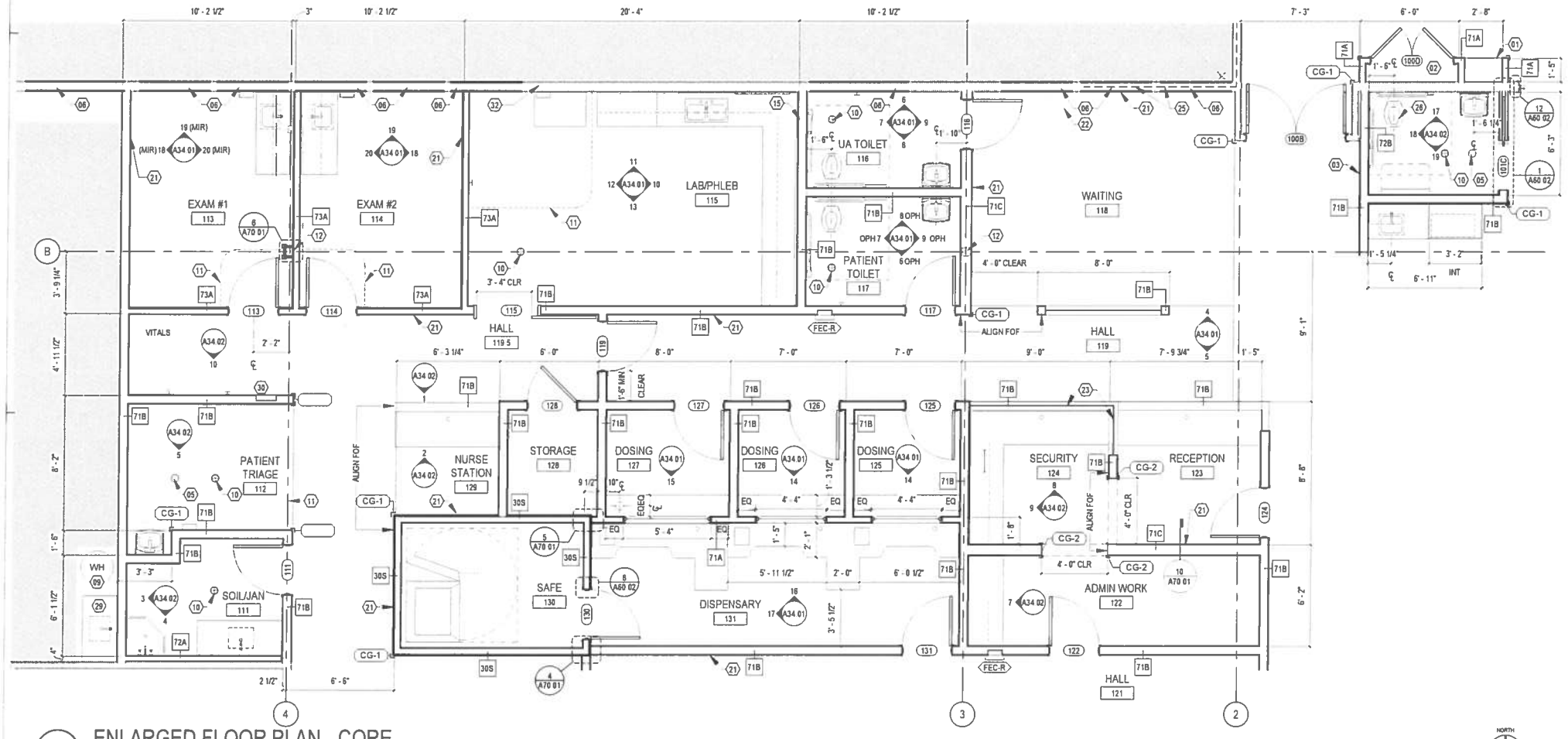
SHEET #
A24.01



NOTE: SEE INTERIOR ELEVATIONS FOR ROOM 117 - PATIENT TOILET - FOR SIMILAR FF&E CALLOUTS AND NOTES, EXCLUDING SPECIMEN PASS-THRU CABINET.

2 ENLARGED FLOOR PLAN - STAFF TOILET

1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - CORE

1/4" = 1'-0"

NOTES & LEGEND - FLOOR PLANS

1. DIMENSIONS ARE TO ROUGH FRAMING OR TO FACE OF EXISTING FINISHES, TYP UNO
2. DIMENSIONS INDICATED AS "MIN" OR "CLR" ARE FROM NEAREST FINISH SURFACE, INCLUDING TRIM.
3. ROUGH DOOR OPENINGS ARE LOCATED 5" FROM NEAREST INTERSECTING WALL FRAMING, TYP UNO
4. PROVIDE BLOCKING REINFORCEMENT FOR THE INSTALLATION OF ALL GRAB BARS, PLUMBING FIXTURES, AND ALL OTHER WALL-MOUNTED ACCESSORIES/EQUIPMENT.
5. SEE SHEET A00 03 FOR ASSEMBLY TYPES AND CONSTRUCTION.
6. SEE SHEET A01 01 FOR CODE REQUIRED EMERGENCY EXIT SIGN LOCATIONS.
7. SEE SHEET A04 01FOR TYPICAL ACCESSIBILITY DETAILS AND MOUNTING HEIGHTS NOT REFERENCED IN PLAN OR INTERIOR ELEVATIONS.
8. SEE A34 SERIES SHEETS FOR INTERIOR ELEVATIONS AND ITEMS TO BE OFOI, OFCI AND/OR CFCI
9. PREPARE FLOOR SLAB TO RECEIVE NEW FINISHES

EXISTING ELEMENT TO REMAIN

NEW CONSTRUCTION ELEMENT

OUT OF SCOPE

EXTENT OF ELEMENT ABOVE

HAND SANITIZER DISPENSER

CORNER GUARD / END WALL GUARD

KEY NOTES - FLOOR PLAN

#	NOTE DESCRIPTION
01	WORK SURFACE/COUNTER PER INTERIOR ELEVATIONS.
02	CLOSET TO ENCASE EXISTING ELECTRICAL PANELS AND CONDUIT
03	INSTALL SALVAGED FIRE ALARM PULL STATION
04	DOWNSPOUT. SEE CIVIL DRAWINGS FOR CONNECTION.
05	FLOOR CLEANOUT. SEE PLUMBING DRAWINGS.
06	INFILL OPENING TO MATCH EXISTING ADJACENT WALL ASSEMBLY.
07	NEW WALL CENTERED ON EXISTING MULLION.
08	EXISTING CHAINLINK FENCE/GATE.
09	WATER HEATER/ PUMP/EXPANSION TANK. SEE PLUMBING DRAWINGS.
10	FLOOR DRAIN. SEE PLUMBING DRAWINGS.
11	PRIVACY CURTAIN AND TRACK PER FINISH SCHEDULE
12	EXISTING COLUMN
13	EXISTING ELECTRICAL PANELS AND CONDUIT
14	WALL-MOUNTED TV. OFCI. PROVIDE BACKING.
15	SPECIMEN PASS-THRU. CFCI
16	THROUGH-WALL VENT
17	(10) WOOD-LOOK ALUMINUM BATTENS. EQUALLY SPACED.
18	CARD READER.
19	ACCESSIBLE PUSH PLATE.
20	RENTAL, INSTALLATION, AND REMOVAL OF 98'-0" OF SECURITY FENCING. FENCING HEIGHT TO RUN TO EXISTING CEILING.
21	ART WALL. KEEP WALL CLEAN OF WALL-MOUNTED ITEMS, SUCH AS THERMOSTATS. RECEPTACLES AT 18" AFF ARE ACCEPTABLE.
22	WATER DISPENSER, OFCI. PROVIDE WATER LINE AND POWER.
23	SECURITY WINDOW WITH ONE-WAY VISION GLASS.
24	STOREFRONT ENTRY WALL SIGN.
25	PROVIDE HEADER FRAMING FOR FUTURE OPENING. SEE STRUCTURAL DRAWINGS.
26	CHILD-HEIGHT TOILET
27	PROVIDE IN-WALL BACKING FOR FUTURE WALL-MOUNTED FURNITURE. TO BE COORDINATED W/FURNITURE VENDOR.
28	PROVIDE FIRE-RATED PLYWOOD. THIS WALL ONLY.
29	INSTALL SALVAGED SINK, FAUCET, AND BASE CABINET
30	RECESSED CUSTOM SHELF UNIT. SEE INTERIOR ELEVATION
31	FIELD VERIFY GWB FURRING EXISTS ALONG EXTERIOR PERIMETER WALLS AND ARE OF ADEQUATE DEPTH TO INSTALL NEW UTILITIES. IF ADEQUATE GWB FURRING EXISTS, PATCH AND PREP TO RECEIVE NEW FINISHES. IF FURRING DOES NOT EXIST, PROVIDE GWB FURRING ALONG LENGTH OF EXTERIOR PERIMETER WALLS WITHIN AREA OF WORK. EXTEND FROM EXISTING SLAB TO BOTTOM OF ROOF DECK.
32	FIELD VERIFY EXISTING WALL EXTENDS TO BOTTOM OF ROOF DECK. IF NOT, EXTEND WALL ASSEMBLY TO BOTTOM OF ROOF DECK.
33	PROVIDE IN-WALL BACKING FOR FUTURE WALL-MOUNTED ARTWORK BY OWNER.
34	4" DIAMETER DOWNSPOUT Y-CONNECTOR ABOVE. SEE EXTERIOR ELEVATIONS

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ENLARGED FLOOR PLANS

SHEET #
A26.01

EXTERIOR FINISH LEGEND

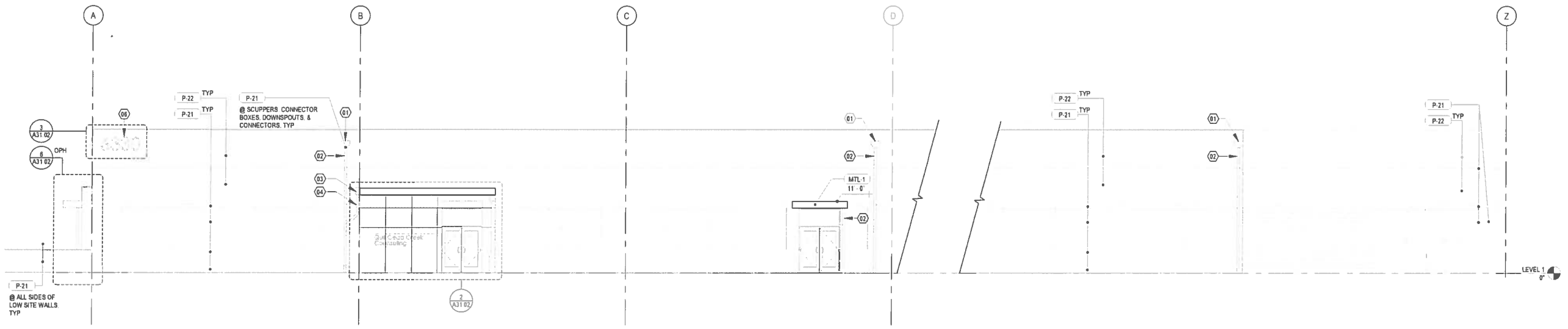
TAG	MATERIAL	MANUFACTURER	PRODUCT	FINISH	NOTES
ALUMINUM BATTENS					
ALUM-3	ALUMINUM BATTENS	BASIS OF DESIGN: DIZAL (OR EQUAL)	BASIS OF DESIGN: DIZAL 2X6 ARCHITECTURAL ALUMINUM BATTEN	BASIS OF DESIGN: DIZAL JATOBA VARIEGATED DARK 104-02	PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
ALUMINUM-FACED COMPOSITE PANEL					
ALUM-1	ALUMINUM-FACED COMPOSITE WALL PANEL	BASIS OF DESIGN: ALUCOBOND (OR EQUAL)	BASIS OF DESIGN: ALUCOBOND PLUS W/ TYPICAL 1/2" REVEAL	BASIS OF DESIGN: ALUCOBOND CLASSIC - SPIRE BLUE II	(DARK BLUE COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
ALUM-2	ALUMINUM-FACED COMPOSITE WALL PANEL	BASIS OF DESIGN: ALUCOBOND (OR EQUAL)	BASIS OF DESIGN: ALUCOBOND PLUS W/ TYPICAL 1/2" REVEAL	BASIS OF DESIGN: ALUCOBOND CLASSIC - GRAPHITE MICA	(GREY-BLACK COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
METAL					
MTL-1	SHEET METAL FLASHING	-	SHEET METAL FLASHING	COLORMATCH ALUM-2	-
PAINT					
P-21	EXTERIOR PAINT	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW OUTERSPACE	FLAT	(DARK GREY COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
P-22	EXTERIOR PAINT	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW 7001 MARSHMALLOW	FLAT	(NEUTRAL WHITE COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.

KEY NOTES - EXTERIOR ELEVATIONS

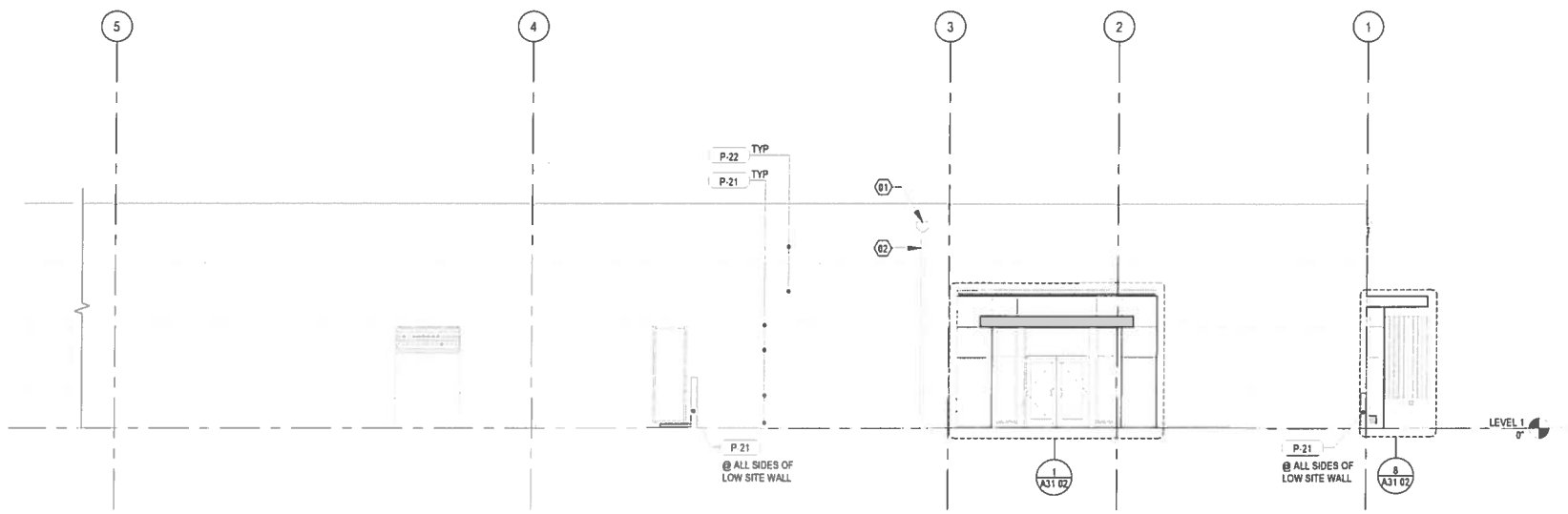
#	NOTE DESCRIPTION
01	CONNECT NEW SCUPPER COLLECTION BOX TO EXISTING SCUPPER, TYP.
02	4" DIAMETER DOWNSPOUT.
03	SCUPPER COLLECTION BOX.
04	4" DIAMETER DOWNSPOUT Y-CONNECTOR. TIE INTO ADJACENT DOWNSPOUT.
05	STOREFRONT ENTRY WALL SIGN.
06	BUILDING ADDRESS WALL SIGN.
07	THROUGH-WALL VENT. 6" AFF.
08	THROUGH-WALL VENT. 9'-0" AFF.
09	BREAK METAL.
10	CONCRETE CURB.
11	CARD READER.
12	ACCESSIBLE PUSH PLATE.

NOTES & LEGEND - EXTERIOR ELEVATIONS

1 SEE REFLECTED CEILING PLAN FOR EXTERIOR LIGHTING NOT SHOWN IN ELEVATIONS.
2 GRAPHIC REPRESENTATION OF EXTERIOR MATERIALS AND/OR LIGHTING MAY BE NOT TO SCALE.
3 CLEAN/POWER WASH ENTIRE BUILDING FACADE. PREPARE EXTERIOR FACADE TO RECEIVE NEW FINISHES.
4 SEE SHEET A00.03 FOR ASSEMBLY TYPES AND CONSTRUCTION.



4 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



1 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"

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EXTERIOR ELEVATIONS & EXTERIOR FINISH LEGEND

SHEET #
A31.01

EXTERIOR FINISH LEGEND

TAG	MATERIAL	MANUFACTURER	PRODUCT	FINISH	NOTES
ALUMINUM BATTENS					
ALUM-3	ALUMINUM BATTENS	BASIS OF DESIGN: DIZAL (OR EQUAL)	BASIS OF DESIGN: DIZAL 2X6 ARCHITECTURAL ALUMINUM BATTEN	BASIS OF DESIGN: DIZAL JATOBA VARIEGATED DARK 104-02	PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
ALUMINUM-FACED COMPOSITE PANEL					
ALUM-1	ALUMINUM-FACED COMPOSITE WALL PANEL	BASIS OF DESIGN: ALUCOBOND (OR EQUAL)	BASIS OF DESIGN: ALUCOBOND PLUS W/ TYPICAL 1/2" REVEAL	BASIS OF DESIGN: ALUCOBOND CLASSIC - SPIRE BLUE II	(DARK BLUE COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
ALUM-2	ALUMINUM-FACED COMPOSITE WALL PANEL	BASIS OF DESIGN: ALUCOBOND (OR EQUAL)	BASIS OF DESIGN: ALUCOBOND PLUS W/ TYPICAL 1/2" REVEAL	BASIS OF DESIGN: ALUCOBOND CLASSIC - GRAPHITE MICA	(GREY-BLACK COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
METAL					
MTL-1	SHEET METAL FLASHING	-	SHEET METAL FLASHING	COLORMATCH ALUM-2	-
PAINT					
P-21	EXTERIOR PAINT	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW OUTERSPACE	FLAT	(DARK GREY COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.
P-22	EXTERIOR PAINT	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW 7001 MARSHMALLOW	FLAT	(NEUTRAL WHITE COLOR) PROVIDE OWNER WITH FINISH/COLOR SAMPLE PRIOR TO PURCHASE FOR FINAL SELECTION APPROVAL.

KEY NOTES - EXTERIOR ELEVATIONS

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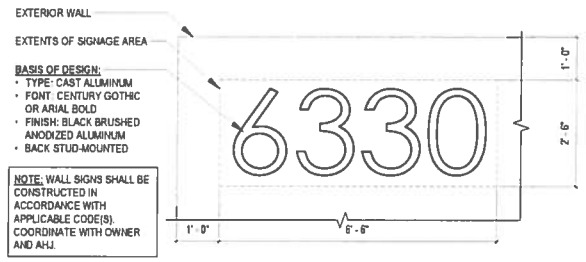
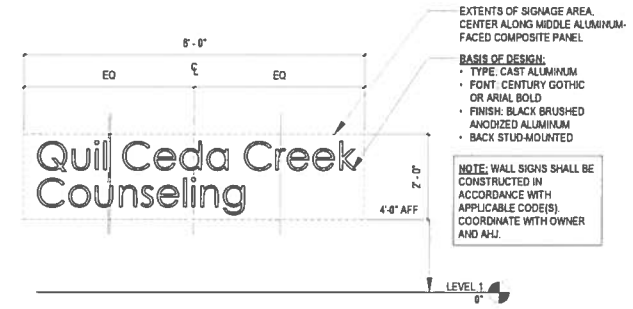
03	SCUPPER COLLECTION BOX.
04	4" DIAMETER DOWNSPOUT Y-CONNECTOR. TIE INTO ADJACENT DOWNSPOUT
05	STOREFRONT ENTRY WALL SIGN
06	BUILDING ADDRESS WALL SIGN
07	THROUGH-WALL VENT. 8" AFF
08	THROUGH-WALL VENT. 8'-0" AFF
09	BREAK METAL.
10	CONCRETE CURB.
11	CARD READER.
12	ACCESSIBLE PUSH PLATE.

NOTES & LEGEND - EXTERIOR ELEVATIONS

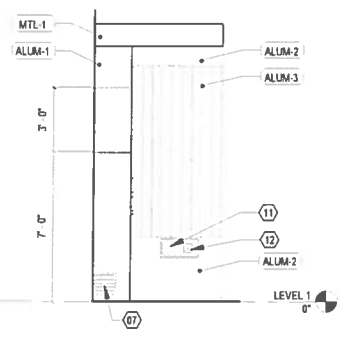
1. SEE REFLECTED CEILING PLAN FOR EXTERIOR LIGHTING NOT SHOWN IN ELEVATIONS.
2. GRAPHIC REPRESENTATION OF EXTERIOR MATERIALS AND/OR LIGHTING MAY BE NOT TO SCALE
3. CLEAN/POWER WASH ENTIRE BUILDING FACADE. PREPARE EXTERIOR FACADE TO RECEIVE NEW FINISHES
4. SEE SHEET A00.03 FOR ASSEMBLY TYPES AND CONSTRUCTION



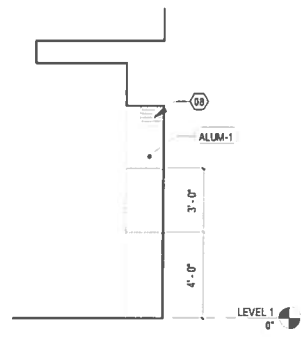
3 BUILDING ADDRESS WALL SIGN
1/2" = 1'-0"



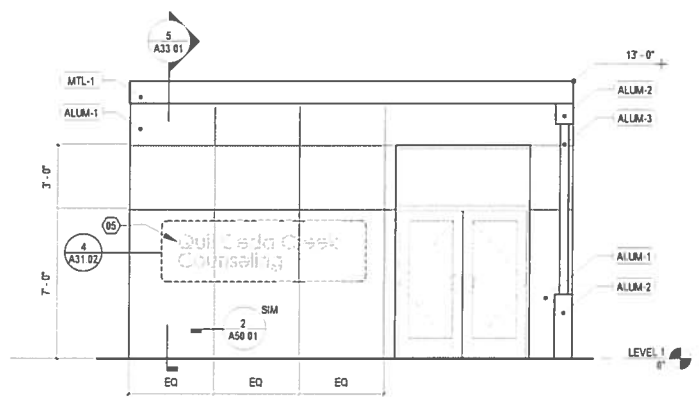
4 STOREFRONT ENTRY WALL SIGN
1/2" = 1'-0"



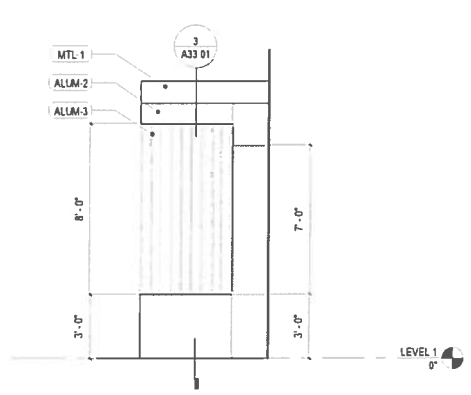
8 MAIN ENTRY (SIDE)
1/4" = 1'-0"



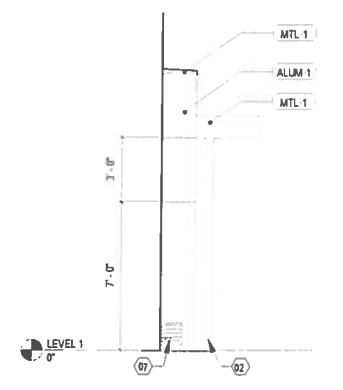
9 MAIN ENTRY (TYP INNER SIDE)
1/4" = 1'-0"



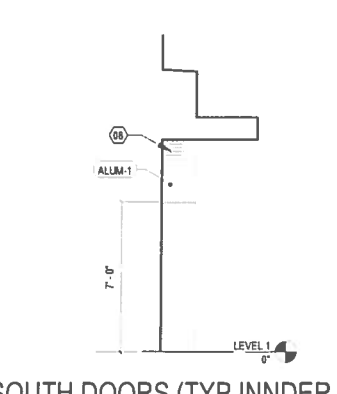
2 MAIN ENTRY (FRONT)
1/4" = 1'-0"



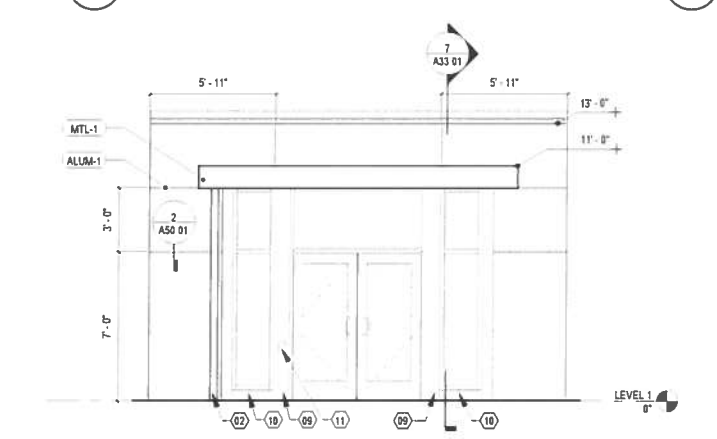
5 MAIN ENTRY (OUTER SIDE OF BATTEN WING WALL)
1/4" = 1'-0"



6 SOUTH DOORS (TYP OUTER SIDE)
1/4" = 1'-0"



7 SOUTH DOORS (TYP INNDER SIDE)
1/4" = 1'-0"



1 SOUTH DOORS (FRONT)
1/4" = 1'-0"

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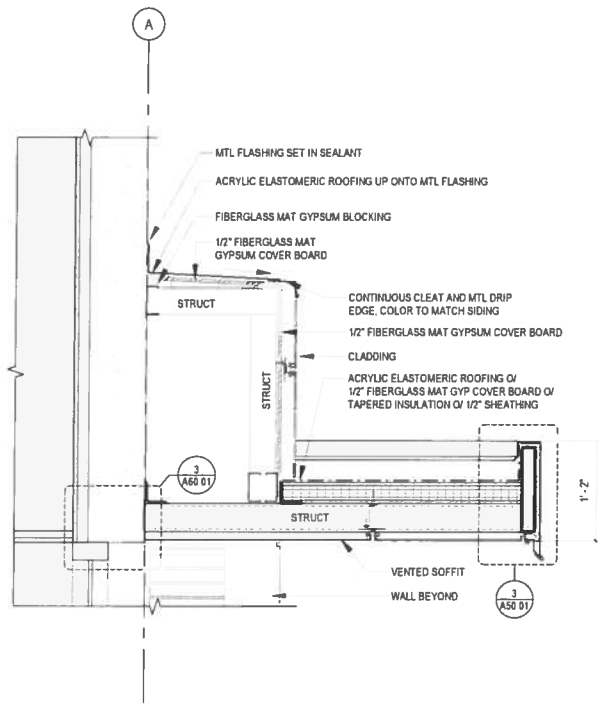
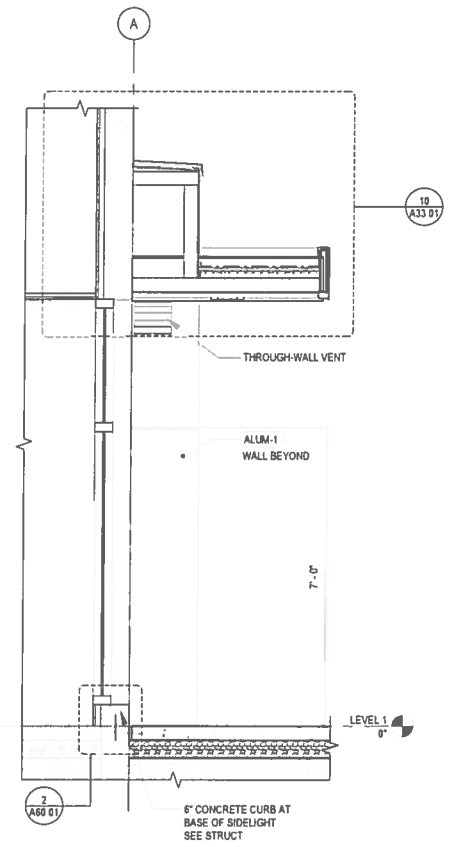
ENLARGED EXTERIOR ELEVATIONS

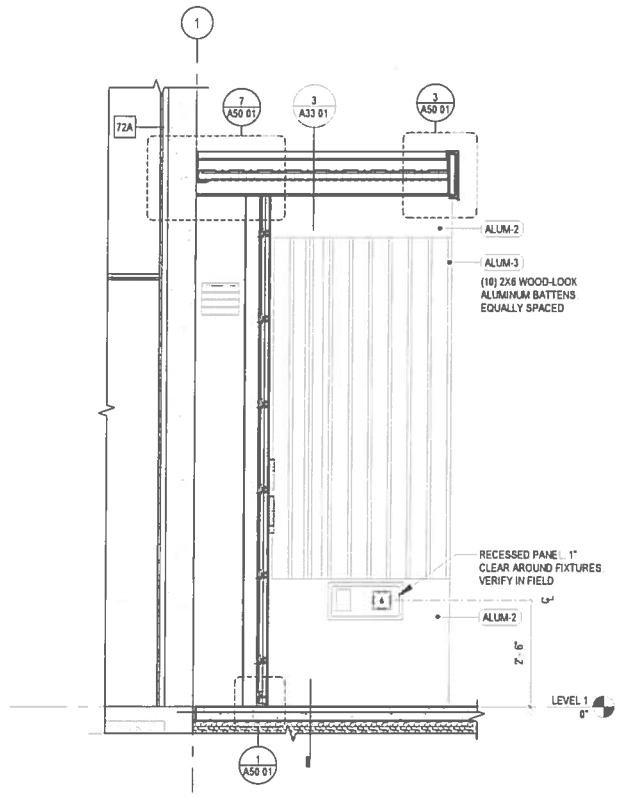
SHEET #
A31.02



10 SECTION - THRU SOUTH CANOPY
1" = 1'-0"



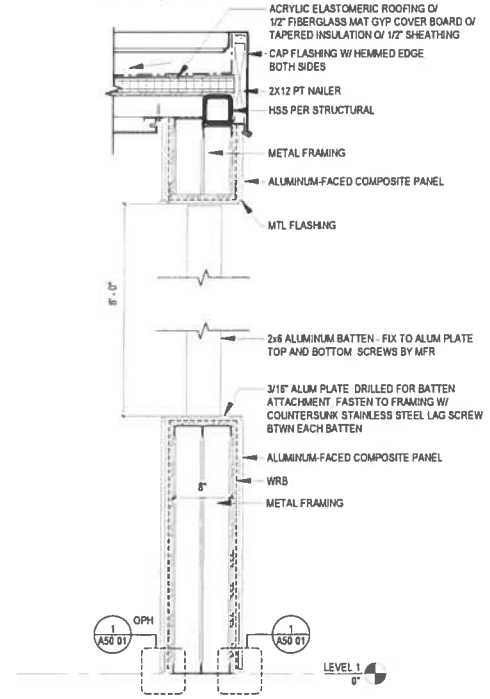
7 WALL SECTION - THRU SOUTH DOORS
1/2" = 1'-0"



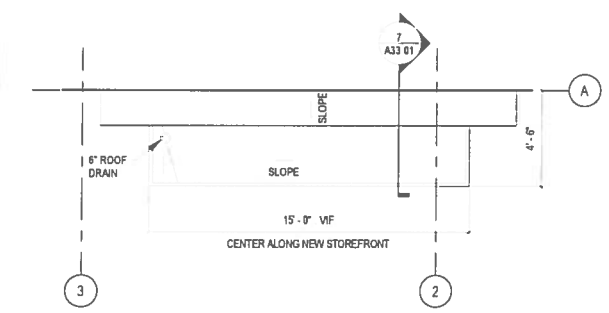
5 WALL SECTION - THRU MAIN ENTRY
1/2" = 1'-0"

NOTES & LEGEND - CANOPIES

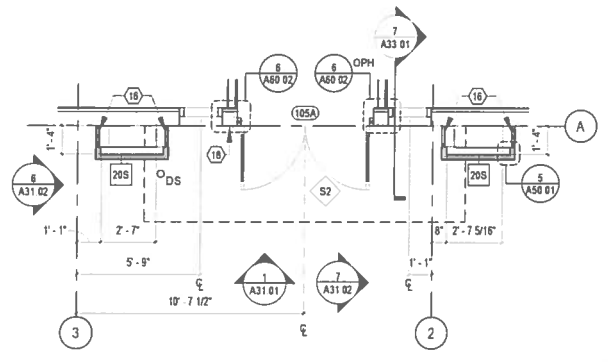
1. SEE SHEET A00 03 FOR ASSEMBLY TYPES AND CONSTRUCTION.
2. SEE SHEET A22 01 FOR FLOOR PLAN KEY NOTES
3. SEE SHEET A31 01 FOR EXTERIOR FINISH LEGEND
4. MINIMUM ROOF SLOPES ON CANOPIES ARE 1/2" 12" TYP



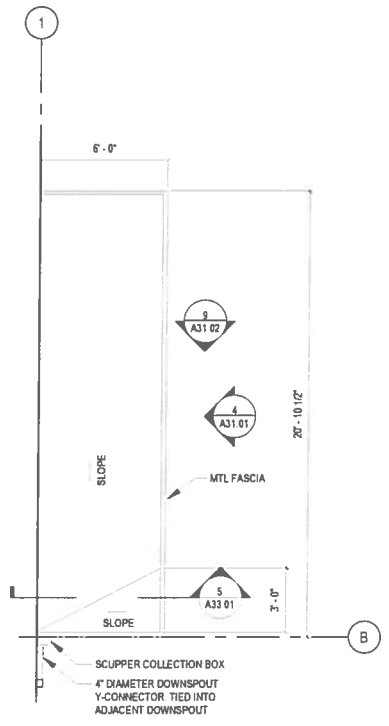
3 MAIN ENTRY BATTEN WING WALL
1" = 1'-0"



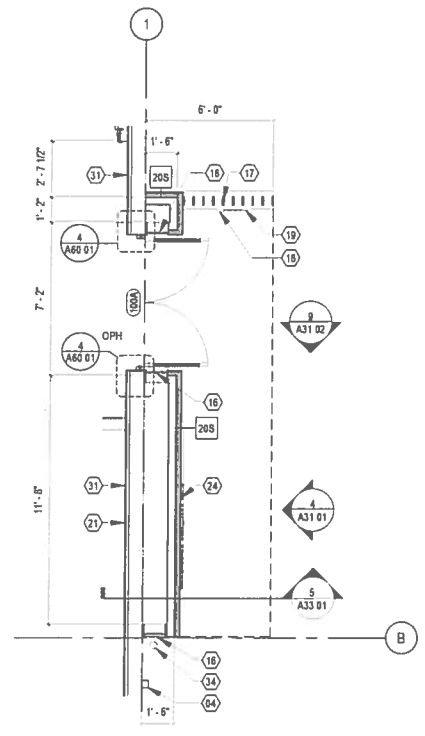
9 SOFFIT/ROOF PLAN - SOUTH DOORS
1/4" = 1'-0"



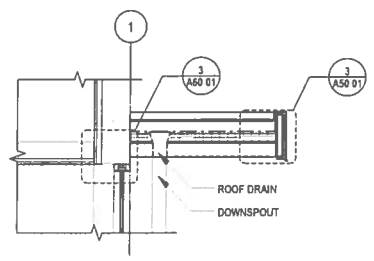
8 ENLARGED PLAN - SOUTH DOORS
1/4" = 1'-0"



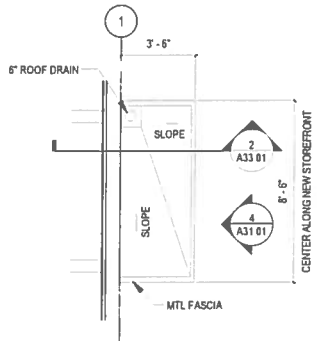
6 ROOF PLAN - MAIN ENTRY
1/4" = 1'-0"



4 ENLARGED PLAN - MAIN ENTRY
1/4" = 1'-0"



2 SECTION - THRU SERVICE DOORS CANOPY
1/2" = 1'-0"



1 ROOF PLAN - SERVICE DOORS
1/4" = 1'-0"

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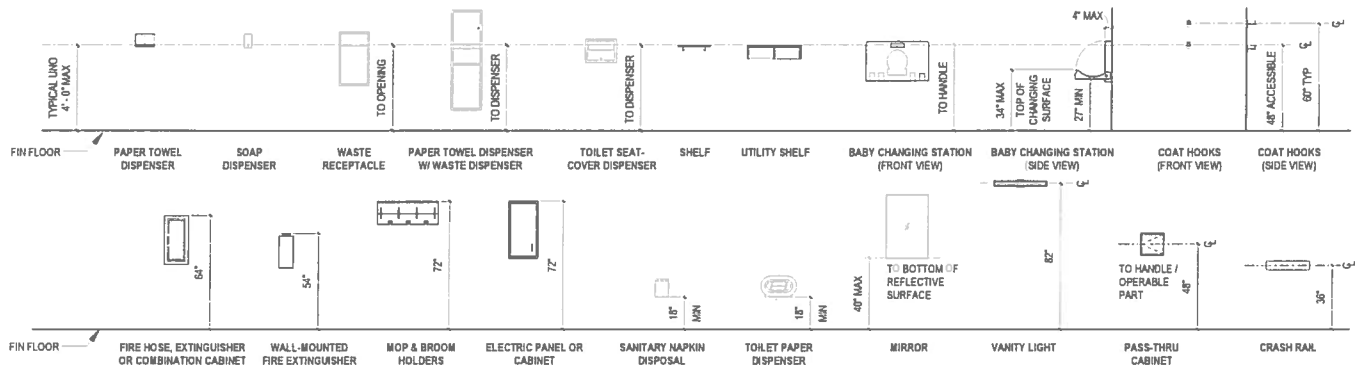
ENTRIES & CANOPIES

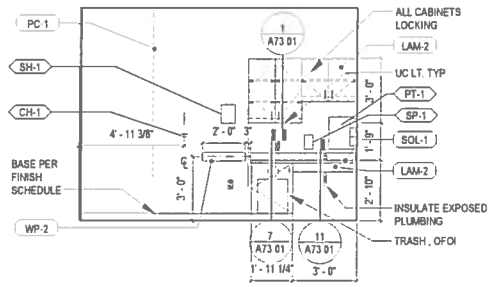
SHEET #
A33.01

TYPICAL MOUNTING HEIGHTS

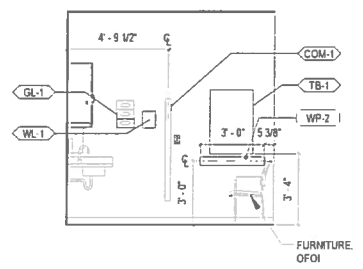


NOTES & LEGEND - INTERIOR ELEVATIONS

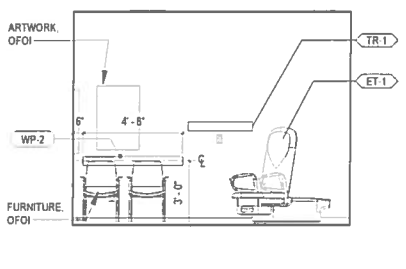
1 REFERENCE FINISH SCHEDULE FOR TYPICAL ROOM FINISHES NOT SHOWN.
2 GRAPHIC REPRESENTATION OF MATERIALS AND/OR FIXTURES MAY NOT BE TO SCALE.
3 SEE ELECTRICAL DRAWINGS FOR TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHTS WHERE MOUNTING HEIGHTS ARE NOT INDICATED IN INTERIOR ELEVATIONS.



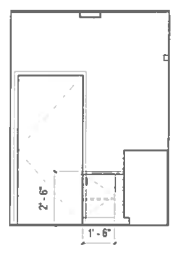
20 EXAM - TYP SINK WALL
1/4" = 1'-0"



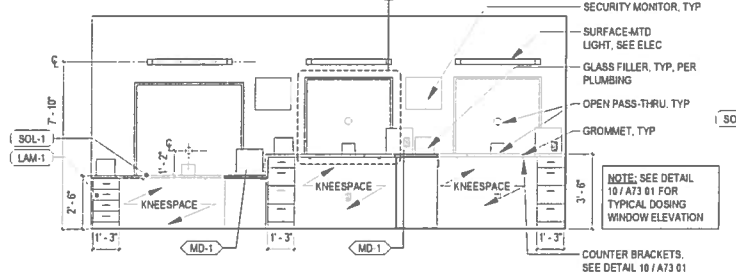
19 EXAM - NORTH
1/4" = 1'-0"



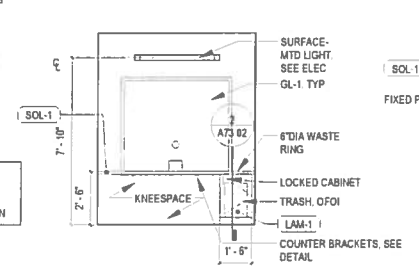
18 EXAM - TYP 2
1/4" = 1'-0"



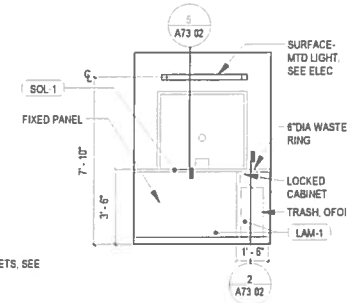
17 DISPENSARY - TYP WEST
1/4" = 1'-0"



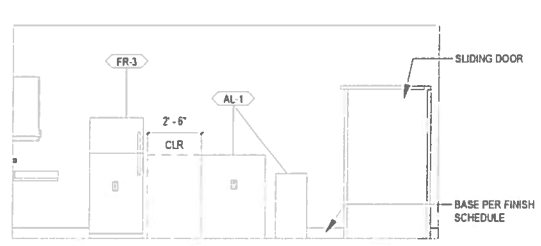
16 DISPENSARY - NORTH
1/4" = 1'-0"



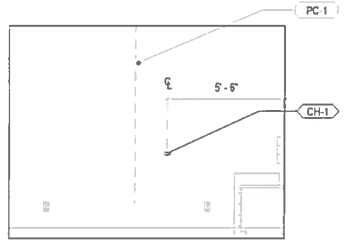
15 DOSING - ACCESSIBLE
1/4" = 1'-0"



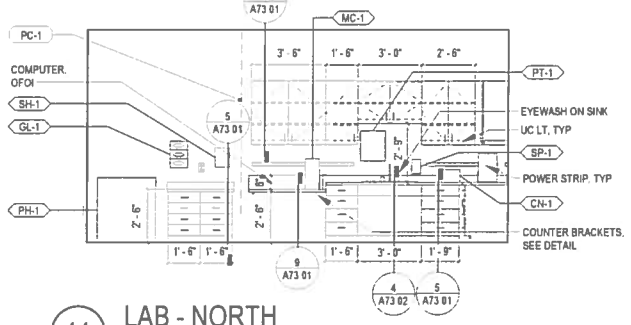
14 DOSING - TYP
1/4" = 1'-0"



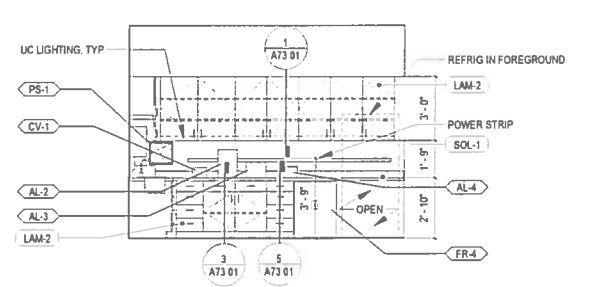
13 LAB - SOUTH
1/4" = 1'-0"



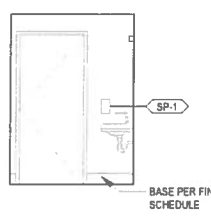
12 LAB - WEST
1/4" = 1'-0"



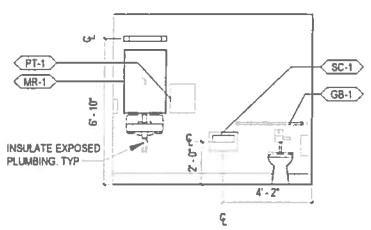
11 LAB - NORTH
1/4" = 1'-0"



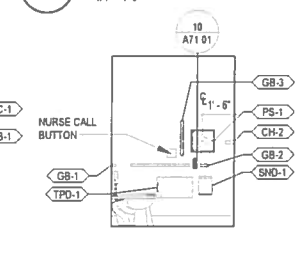
10 LAB - EAST
1/4" = 1'-0"



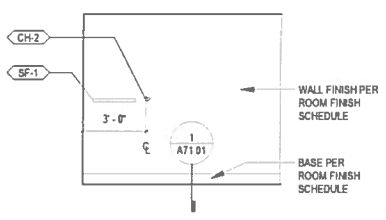
9 UA TLT - EAST
1/4" = 1'-0"



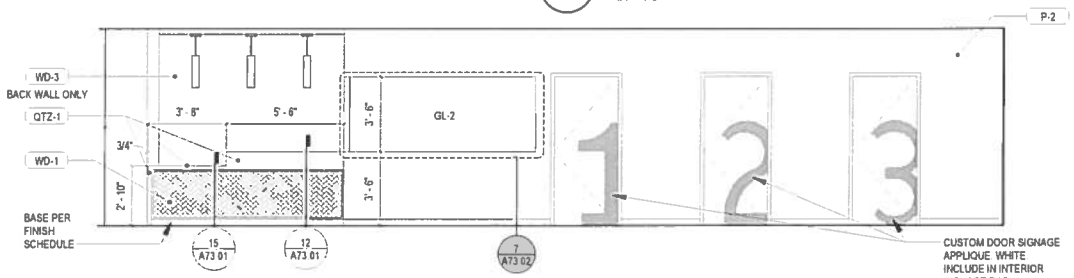
8 UA TLT - SOUTH
1/4" = 1'-0"



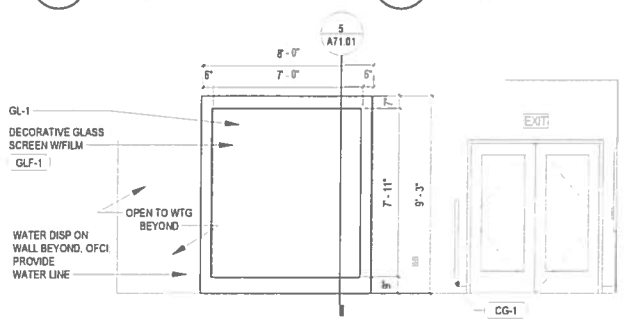
7 UA TLT - WEST
1/4" = 1'-0"



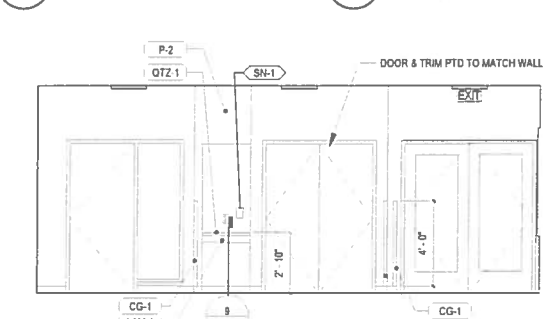
6 UA TLT - NORTH
1/4" = 1'-0"



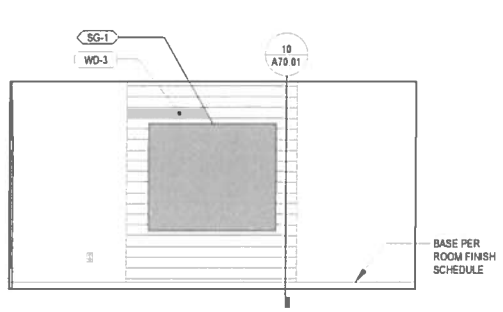
5 RECEPTION & DOSING - SOUTH
1/4" = 1'-0"



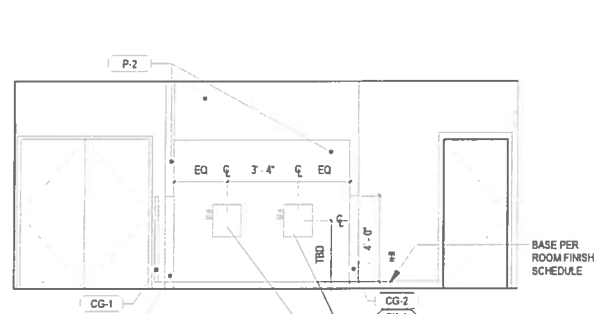
4 WAITING - NORTH
1/4" = 1'-0"



3 VESTIBULE - SOUTH
1/4" = 1'-0"



2 VESTIBULE - WEST
1/4" = 1'-0"



1 VESTIBULE - NORTH
1/4" = 1'-0"

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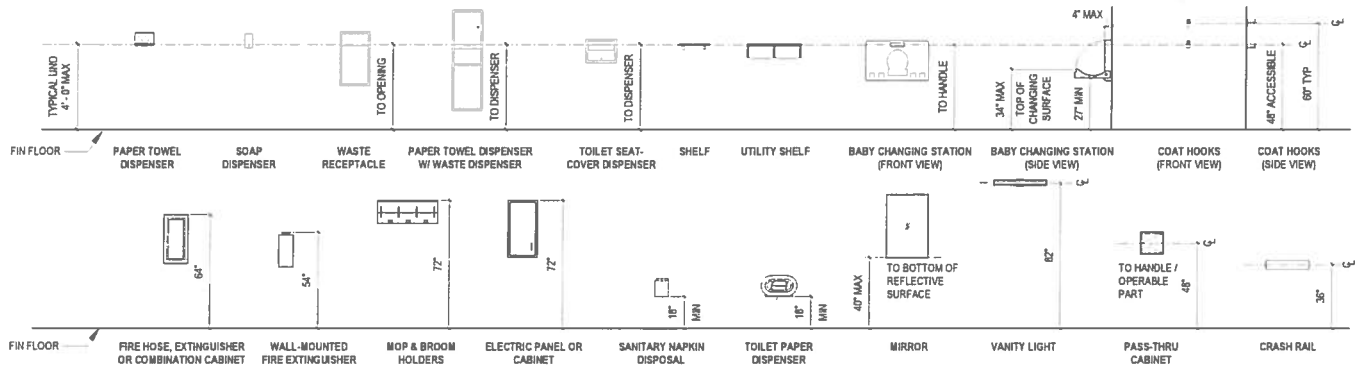
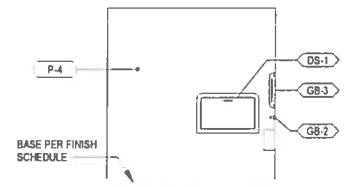
PROJECT # 2016106.11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

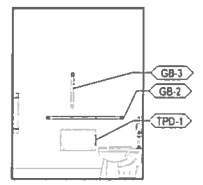
INTERIOR ELEVATIONS

SHEET #
A34.01

TYPICAL MOUNTING HEIGHTS







NOTES & LEGEND - INTERIOR ELEVATIONS

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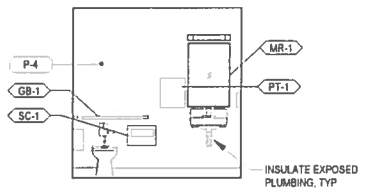
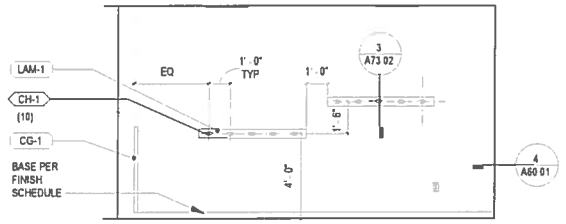
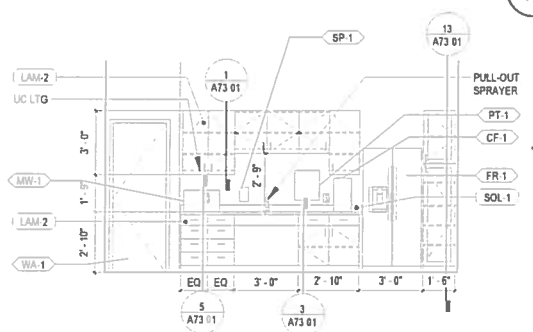
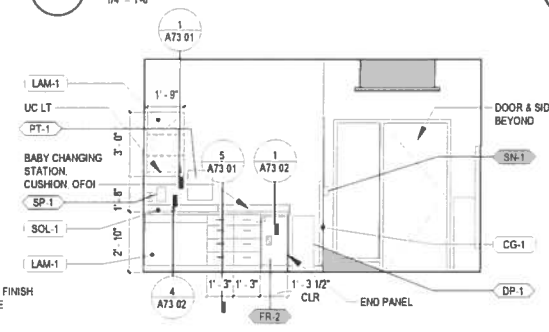




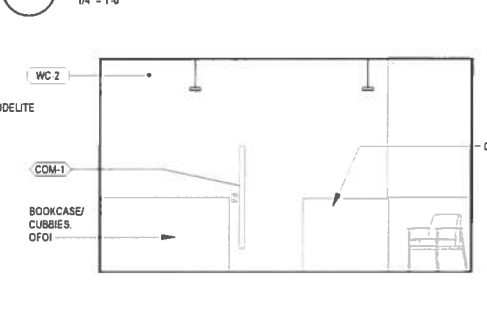
19 CHILD WATCH TLT- SOUTH
1/4" = 1'-0"



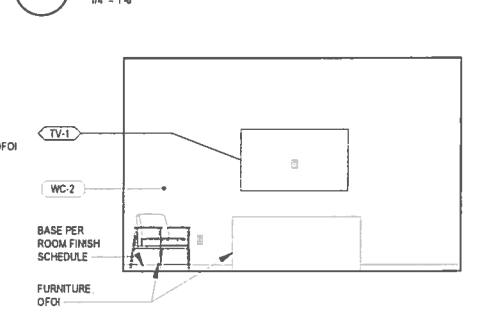
18 CHILD WATCH TLT- WEST
1/4" = 1'-0"



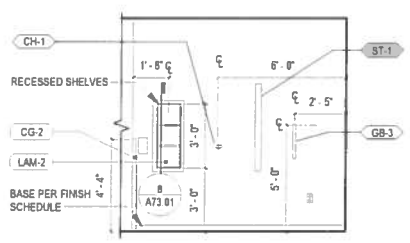
17 CHILD WATCH TLT- NORTH
1/4" = 1'-0"



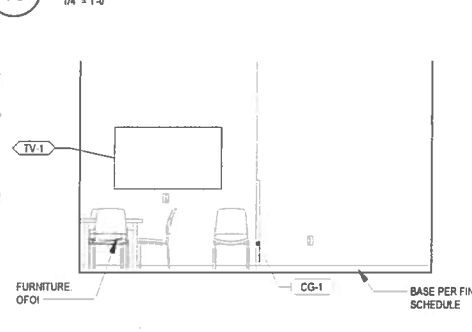
16 HALL 200 - NORTH
1/4" = 1'-0"



15 STAFF LOUNGE - NORTH
1/4" = 1'-0"



14 STAFF LOUNGE - SOUTH
1/4" = 1'-0"



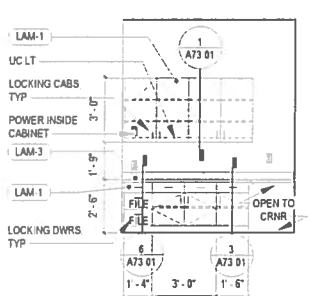
13 CHILD WATCH - NORTH
1/4" = 1'-0"

12 CHILD WATCH - EAST
1/4" = 1'-0"

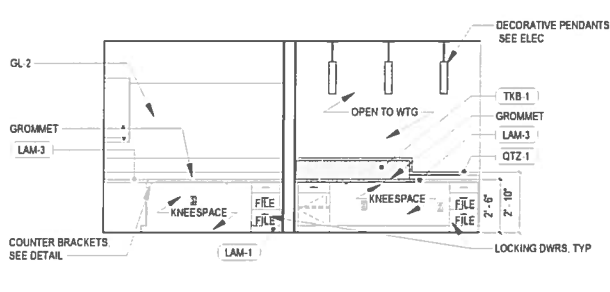
11 CHILD WATCH - SOUTH
1/4" = 1'-0"

10 VITALS - SOUTH
1/4" = 1'-0"

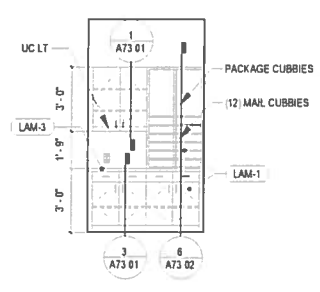
9 SECURITY - WEST
1/4" = 1'-0"



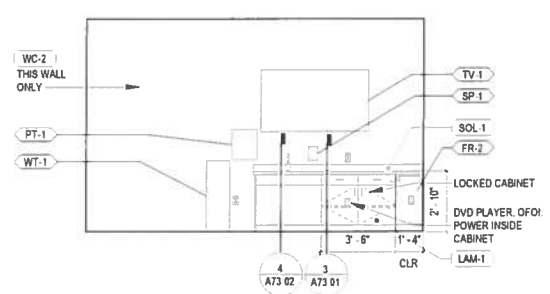
8 SECURITY & RECEPTION - NORTH
1/4" = 1'-0"



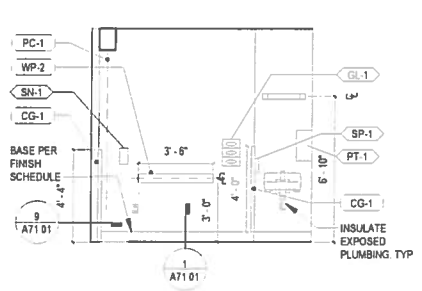
7 ADMIN WORKRM - WEST
1/4" = 1'-0"



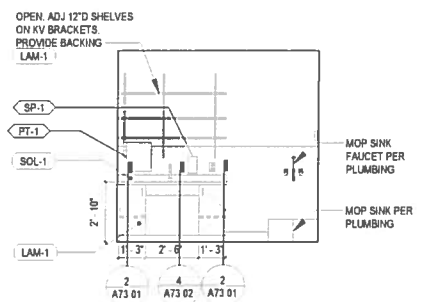
6 GROUP COUNSELING - NORTH
1/4" = 1'-0"



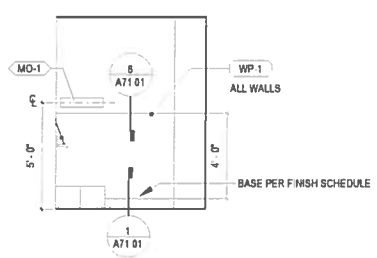
5 TRIAGE - SOUTH
1/4" = 1'-0"



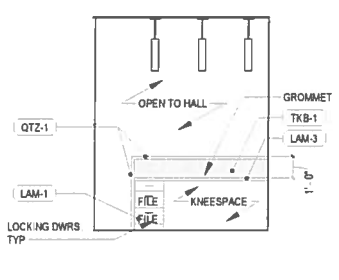
4 SOILED/JANITOR - SOUTH
1/4" = 1'-0"



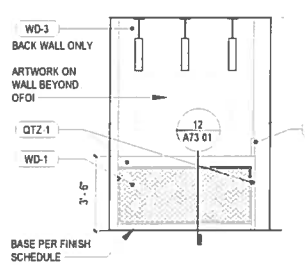
3 SOILED/JANITOR - WEST
1/4" = 1'-0"



2 NURSE STATION - NORTH
1/4" = 1'-0"



1 NURSE STATION - SOUTH
1/4" = 1'-0"



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PROJECT # 2016106.11
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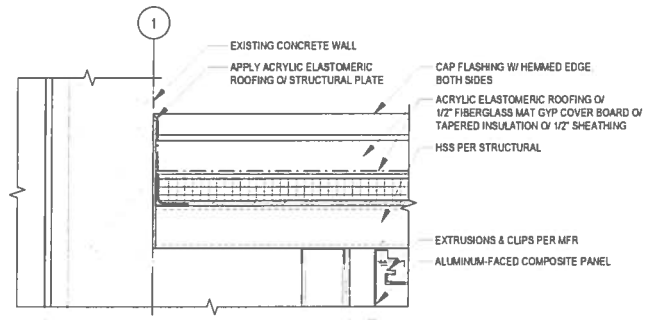
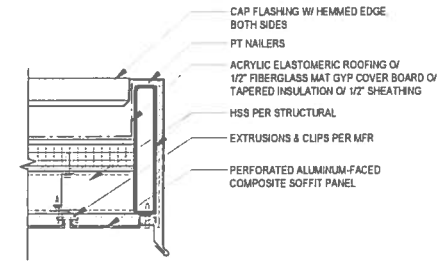
INTERIOR ELEVATIONS

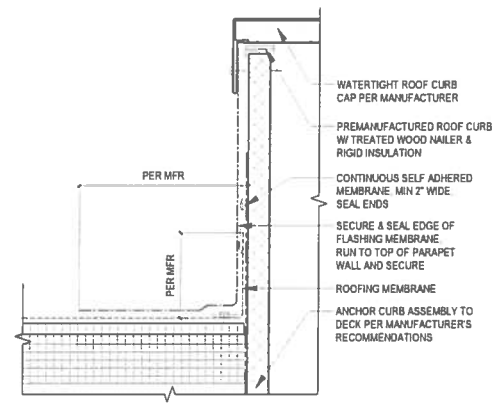
SHEET #
A34.02



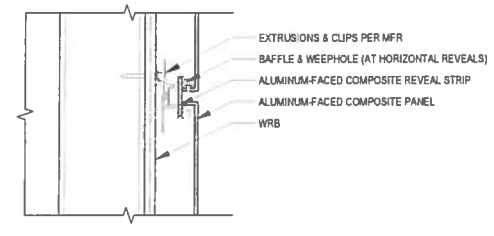
7 MAIN ENTRY CANOPY-WALL CONNECTION
1 1/2" = 1'-0"



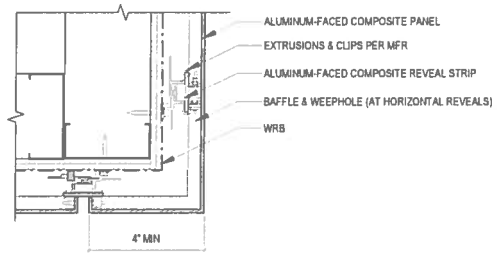
3 TYP ENTRY CANOPY FASCIA
1 1/2" = 1'-0"



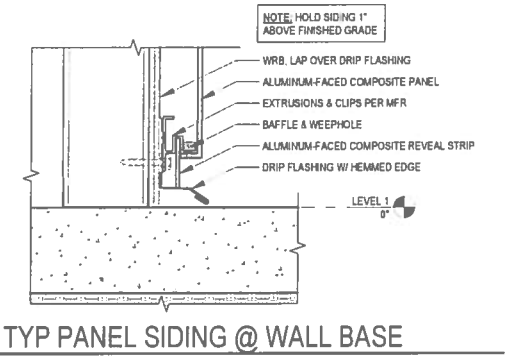
6 ROOF CURB/PENETRATION
3" = 1'-0"



2 TYP PANEL SIDING @ REVEALS
3" = 1'-0"



5 OUTSIDE CORNER
3" = 1'-0"



1 TYP PANEL SIDING @ WALL BASE
3" = 1'-0"

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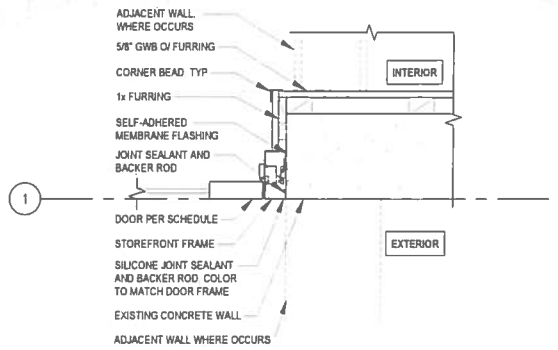
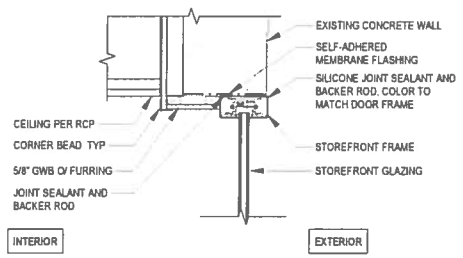
EXTERIOR DETAILS

SHEET #
A50.01



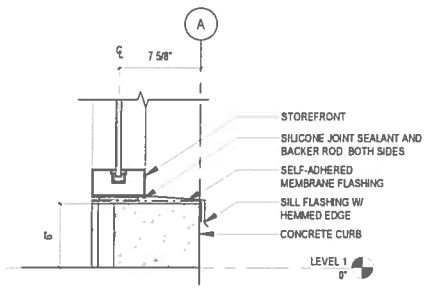
4 TYP STOREFRONT JAMB @ CONC WALL

1 1/2" = 1'-0"



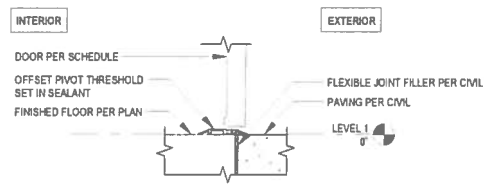
3 TYP STOREFRONT HEAD @ CONC WALL

1 1/2" = 1'-0"



2 TYP STOREFRONT SILL @ CONC CURB

1 1/2" = 1'-0"



1 TYP STOREFRONT DOOR THRESHOLD

1 1/2" = 1'-0"

NOTES - DOORS & HARDWARE

1. SEE INTERIOR FINISH SCHEDULE FOR DOOR AND TRIM FINISHES

GLASS TYPES

GL-1 = CLEAR, TEMPERED GLASS
GL-2 = TEMPERED ONE-WAY GLASS
GL-3 = CLEAR, 1" DOUBLE GLAZED INSULATING GLASS
GL-4 = CLEAR, 1" DOUBLE GLAZED INSULATING TEMPERED GLASS

DOOR HARDWARE GROUPS

1 THESE GROUPS INDICATE GENERAL HARDWARE ITEMS. REFER TO DOOR HARDWARE SPECIFICATION
2 DOOR LEVER STYLE: SCHLAGE-RHODES ADA LEVER, SATIN CHROME, OR EQUAL

GROUP 1
PANIC HARDWARE
CLOSER
TOUCHLESS ACTUATOR
CARD READER

GROUP 2 DOORS
CARD READER
CLOSER
PANIC HARDWARE

GROUP 3
STOREROOM LOCK

GROUP 4
STOREROOM LOCK
CARD READER W/KEY OVERRIDE
CLOSER
KICK PLATE

GROUP 4.1
STOREROOM LOCK
CARD READER
CLOSER
KICK PLATE

GROUP 4.2
STOREROOM LOCK
CARD READER
CLOSER

GROUP 5
STOREROOM LOCK
CARD READER
KICK PLATE

GROUP 6
POCKET DOOR HARDWARE
PRIVACY LOCK

GROUP 7-DOOR
PANIC HARDWARE
CARD READER
CLOSER

GROUP 8
PASSAGE SET

GROUP 9
AD DOOR EXAM SLIDE
CARD READER

GROUP 10
PRIVACY LOCK
MOP PLATE
VACANCY INDICATOR

GROUP 11
PRIVACY LOCK
MOP PLATE
EMERG RELEASE STRIKE
VACANCY INDICATOR

GROUP 12
STOREROOM LOCK
CLOSER
CARD READERS

GROUP 13
CASED OPENINGS-NO HARDWARE

GROUP 14
STOREROOM LOCK
BIOMETRIC READER
CLOSER

GROUP 15
STOREROOM LOCK
BIOMETRIC READER
CLOSER
180 DEG HINGES

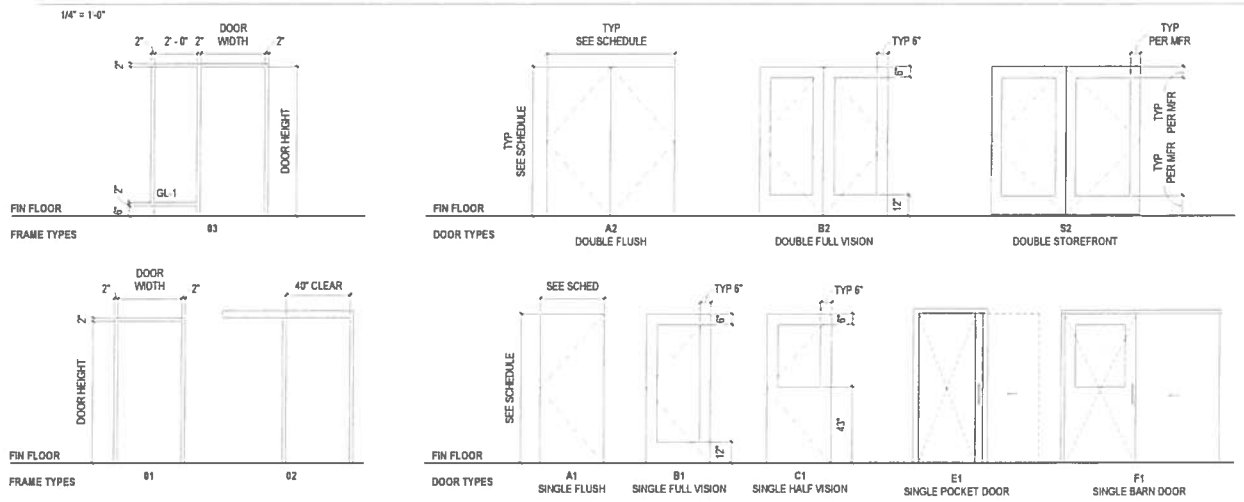
GROUP 16
STOREROOM LOCK
CLOSER
CARD READER

GROUP 17
CARD READER
CLOSER
PANIC HARDWARE
TOUCHLESS ACTUATOR

GROUP 18
PANIC HARDWARE
CARD READER
CLOSER

DOOR & FRAME TYPES

1/4" = 1'-0"

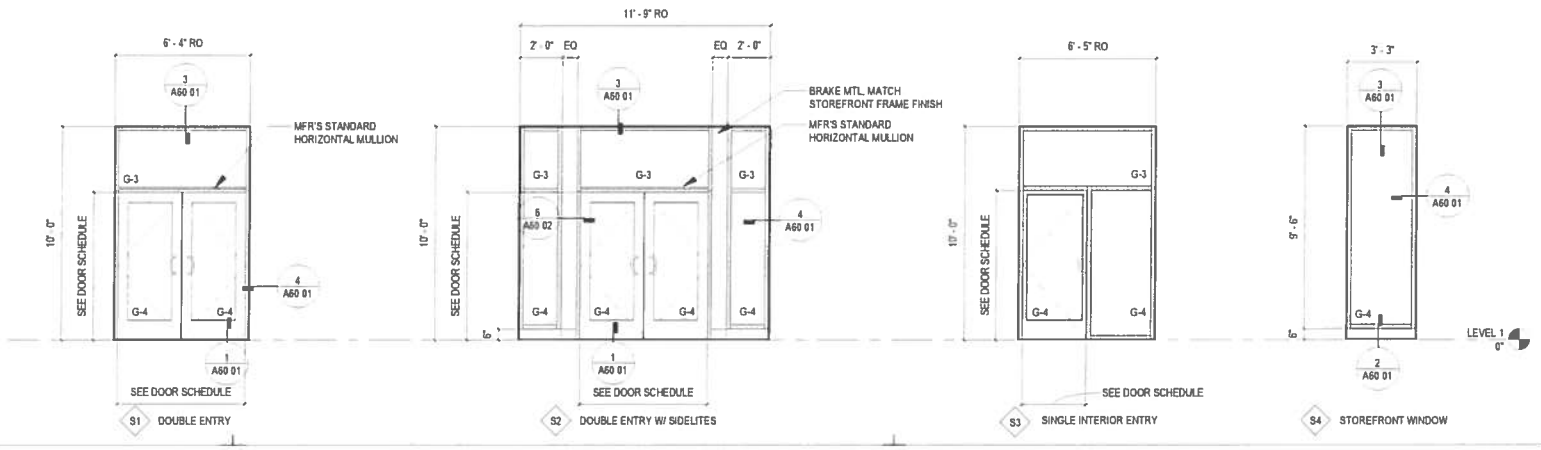


DOOR SCHEDULE

DOOR #	ROOM NUMBER	ROOM NAME	DOOR INFORMATION TYPE	MATERIAL	FINISH	GLAZING	HEIGHT	WIDTH	THICKNESS	FRAME INFORMATION FRAME TYPE	MATERIAL	FINISH	HARDWARE GROUP	COMMENTS
100A	100	VESTIBULE	S2	ALUM	MATTE BLACK	GL-4	6' - 11"	6' - 0"	1 3/4"			MATTE BLACK	GROUP 1	AUTO OPENER W/ PUSH PLATE BASIS OF DESIGN: CRL MOJAVE SERIES ADVANCED THERMAL ENTRANCE SYSTEM, MEDIUM STYLE
100B	100	VESTIBULE	B2	WD	Laminate	GL-1	7' - 0"	6' - 0"	1 3/4"	01	HM	Paint	GROUP 2	CARD READER ON VESTIBULE SIDE
100C	100	VESTIBULE	A2	WD	Laminate	N/A	7' - 0"	6' - 0"	1 3/4"	01	HM	Paint	GROUP 2	
100D	100	VESTIBULE	A2	WD	Laminate	N/A	7' - 0"	5' - 0"	1 3/4"	01	HM	Paint	GROUP 3	
101A	100	VESTIBULE	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	03	HM	Paint	GROUP 4	CARD READER ON VESTIBULE SIDE
101B	101	CHILD WATCH	C1	WD	Laminate	GL-1	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 5	
101C	101	CHILD WATCH	E1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/8"	-	PER MFR	Paint	GROUP 6	HARDWARE BY DOOR MANUF
102	102	SOCIAL WORKER	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
103	103	GROUP COUNSELING	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
104	104	COUNSELING #4	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
105A	105	VESTIBULE	S2	ALUM	MATTE BLACK	GL-4	6' - 11"	6' - 0"	1 3/4"			MATTE BLACK	GROUP 7	CARD READER OUTSIDE BASIS OF DESIGN: CRL MOJAVE SERIES ADVANCED THERMAL ENTRANCE SYSTEM, MEDIUM STYLE
105B	105	VESTIBULE					7' - 0"	3' - 0"				Paint	GROUP 18	CARD READER ON VESTIBULE SIDE
106	106	COUNSELING #3	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
107	107	COUNSELING #2	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
108	108	COUNSELING #1	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
109	109	PROVIDER OFFICE #2	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
110	110	PROVIDER OFFICE #1	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
111	111	SOILJAN	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
113	113	EXAM #1	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 8	
114	114	EXAM #2	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 8	
115	115	LAB/PHLEB	F1	WD	Laminate	GL-1	7' - 0"	3' - 4"	1 3/4"			Paint	GROUP 9	MAG LOCK. HARDWARE BY DOOR MANUFACTURER
116	116	UA TOILET	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 10	
117	117	PATIENT TOILET	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 11	DOUBLE ACTION HINGES / RESCUE HARDWARE
119	119	HALL	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 12	
120	120	HALL	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 12	
121	121	HALL	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 12	
122	122	ADMIN WORK	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4.1	
124	123	RECEPTION	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
124.1	124	SECURITY					0"	0"					GROUP 13	CASED OPENING-NO HARDWARE
124.2	124	SECURITY					0"	0"					GROUP 13	CASED OPENING-NO HARDWARE
125	125	DOSING	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 8	SEE INTERIOR ELEVATION FOR CUSTOM SIGNAGE ON DOOR
126	126	DOSING	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 8	SEE INTERIOR ELEVATION FOR CUSTOM SIGNAGE ON DOOR
127	127	DOSING	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 8	SEE INTERIOR ELEVATION FOR CUSTOM SIGNAGE ON DOOR
128	128	STORAGE	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4.2	
128A							3' - 6"	2' - 5"	0"			Paint		SEE RCP. ATTIC ACCESS. BASIS OF DESIGN: ACUDOR DRYWALL RECESSED ACCESS DOOR DW-5015
130	130	SAFE	A1	HM	Paint	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 14	
131	131	DISPENSARY	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	
200A	200	HALL	S2	ALUM	MATTE BLACK	GL-4	6' - 11"	6' - 0"	1 3/4"			MATTE BLACK	GROUP 17	AUTO OPENER W/ PUSH PLATE BASIS OF DESIGN: CRL MOJAVE SERIES ADVANCED THERMAL ENTRANCE SYSTEM, MEDIUM STYLE
200B	200	HALL	A2	WD	Laminate	N/A	7' - 0"	6' - 0"	1 3/4"	01	HM	Paint	GROUP 16	RESTRICTED ACCESS FROM ADJACENT SPACE TO CLINIC
201A	201	BILLING	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	03	WD	Paint	GROUP 4	
201B	201	BILLING	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	03	WD	Paint	GROUP 4	
202	202	ADMIN OFFICE	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	03	WD	Paint	GROUP 4	
203	203	STAFF TOILET	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	03	WD	Paint	GROUP 10	
204A	204	STAFF LOUNGE	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	03	WD	Paint	GROUP 8	
204B	204	STAFF LOUNGE	A1	WD	Laminate	N/A	7' - 0"	2' - 6"	1 3/4"	01	HM	Paint	GROUP 8	
205	205	IT/DATA	A2	WD	Laminate		7' - 0"	6' - 0"	1 3/4"	01	HM	Paint	GROUP 15	NO CENTER ASTRAGAL. 180 DEGREE HINGES. EAST DOOR IS ACTIVE LEAF
206	206	STORAGE	A1	WD	Laminate	N/A	7' - 0"	3' - 0"	1 3/4"	01	HM	Paint	GROUP 4	

STOREFRONT TYPES

STOREFRONT SYSTEM:
- THERMALLY BROKEN ALUMINUM FRAME
- PVDF PAINT FINISH, COLOR TO MATCH EXISTING WINDOWS. MEETS OR EXCEEDS AAMA 2605



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TULALIP TRIBES FEDERAL CORPORATION

6330 31ST AVE NE
TULALIP, WA 98271

PROJECT # 2016106.11

BID SET / CONSTRUCTION DOCUMENTS

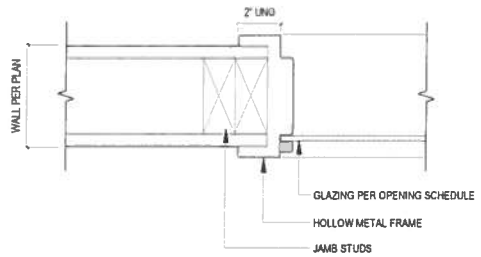
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

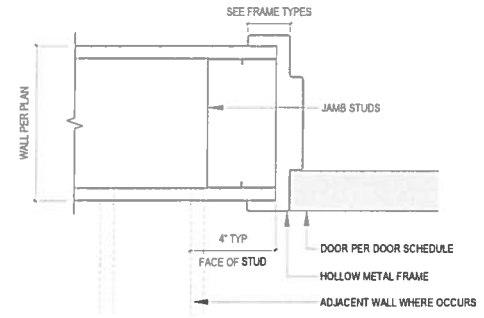
DOOR/FRAME TYPES, DOOR SCHEDULE & HARDWARE GROUPS, STOREFRONT TYPES & DETAILS, & GLAZING TYPES

SHEET #

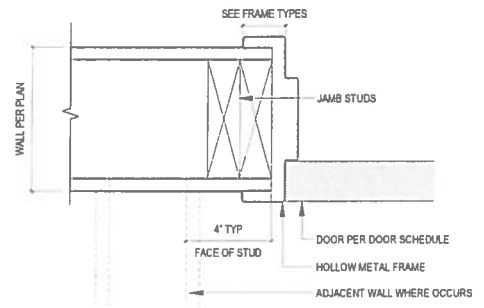
A60.01



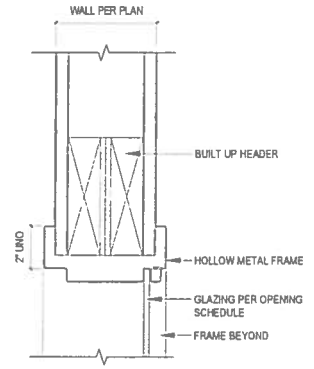
12 TYP HM BORROWED LIGHT JAMB
3" = 1'-0"



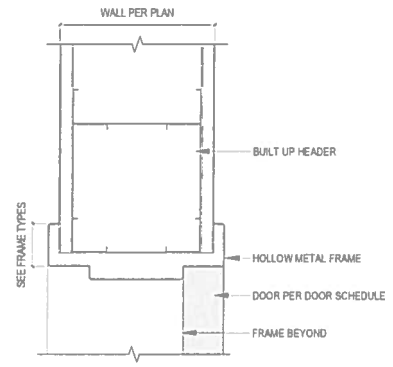
8 TYP HM DOOR JAMB @ MTL FRAMED WALL
3" = 1'-0"



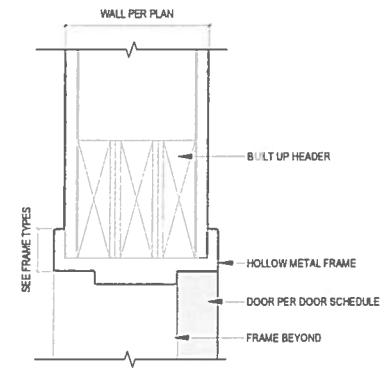
4 HM DOOR JAMB @ WD FRAMED WALL
3" = 1'-0"



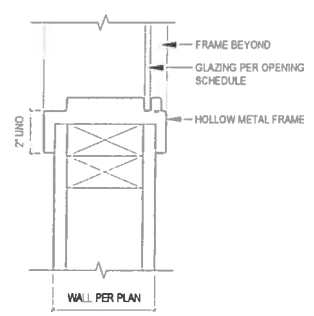
11 TYP HM BORROWED LIGHT HEAD
3" = 1'-0"



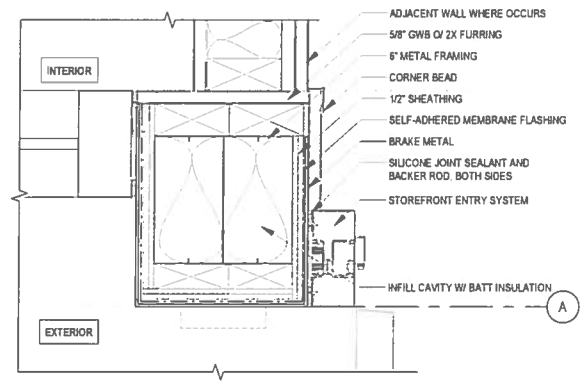
7 TYP HM DOOR HEAD @ MTL FRAMED WALL
3" = 1'-0"



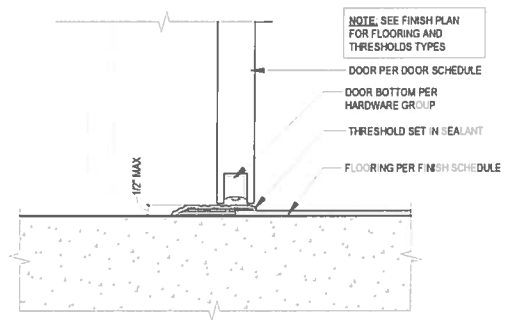
3 TYP HM DOOR HEAD @ WD FRAMED WALL
3" = 1'-0"



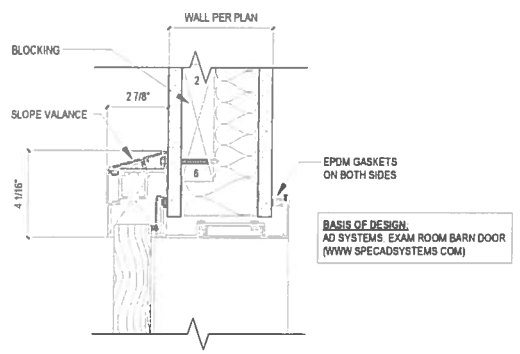
10 TYP HM BORROWED LIGHT SILL
3" = 1'-0"



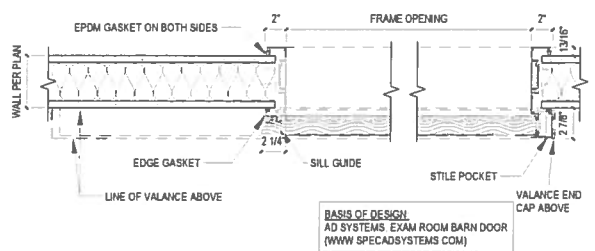
6 TYP JAMB @ SOUTH STOREFRONT
3" = 1'-0"



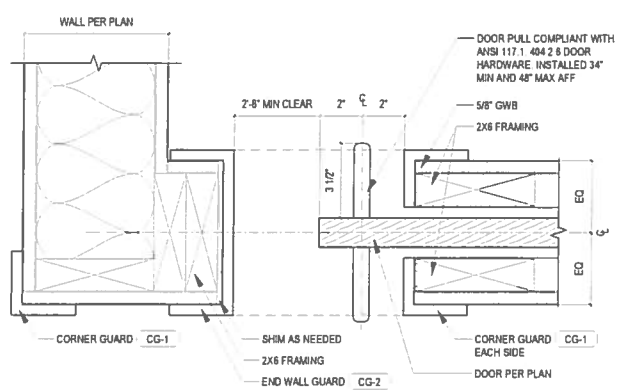
2 TYP HM DOOR THRESHOLD
3" = 1'-0"



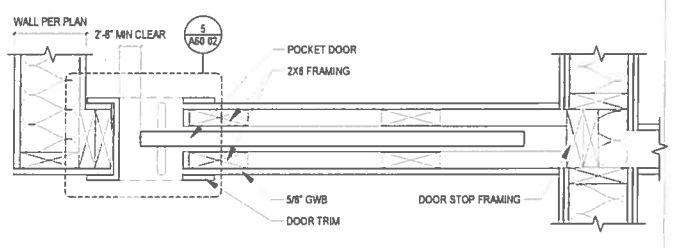
13 BARN DOOR HEAD
3" = 1'-0"



9 BARN DOOR JAMB
1 1/2" = 1'-0"



5 POCKET DOOR OPENING
3" = 1'-0"



1 POCKET DOOR FRAMING
1 1/2" = 1'-0"

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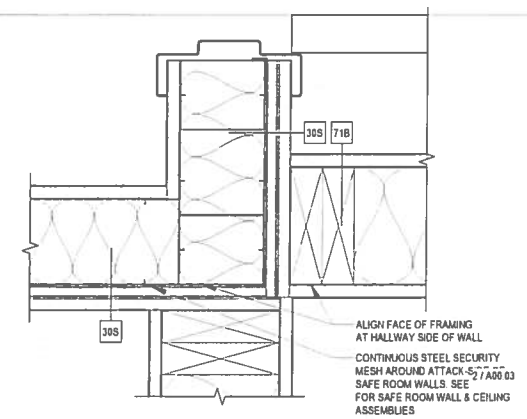
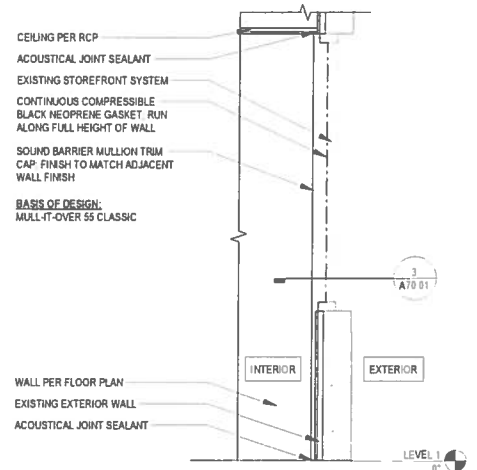
DOOR DETAILS

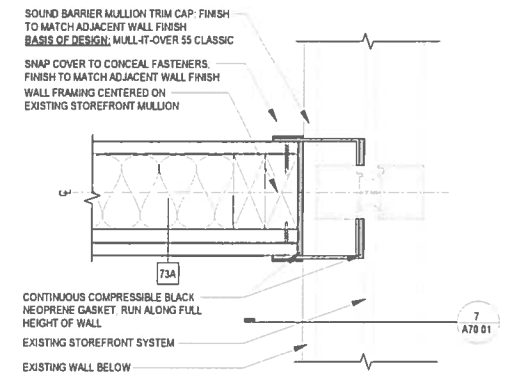
SHEET #
A60.02



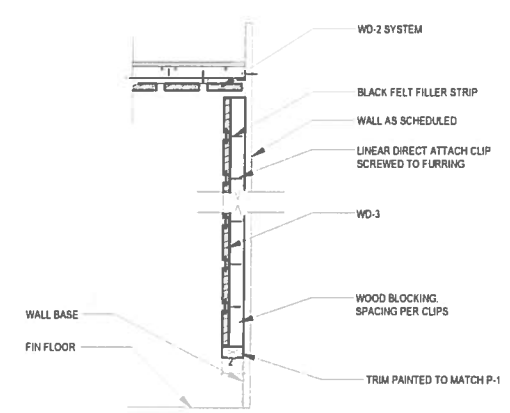
4 SAFE ROOM - CORNER DETAIL 1
3" = 1'-0"



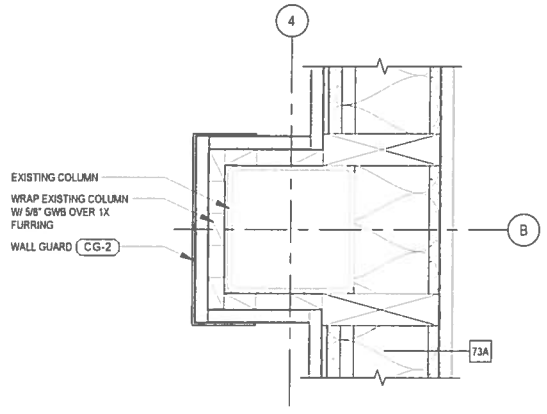
7 CONTINUOUS MULLION TRIM CAP
1/2" = 1'-0"



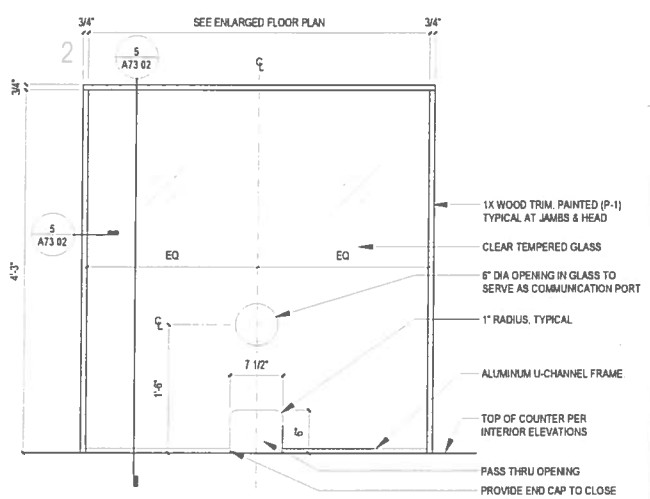
3 INT WALL TO (E) EXT WALL GLAZING
3" = 1'-0"



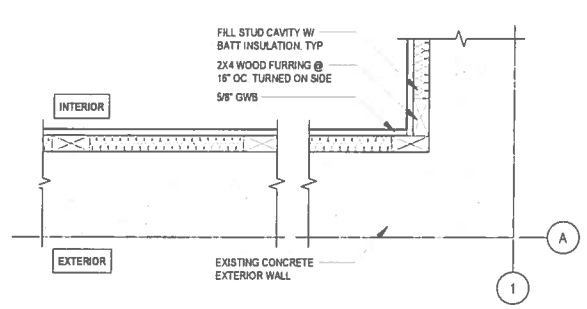
10 WOOD WALL DETAIL
1 1/2" = 1'-0"



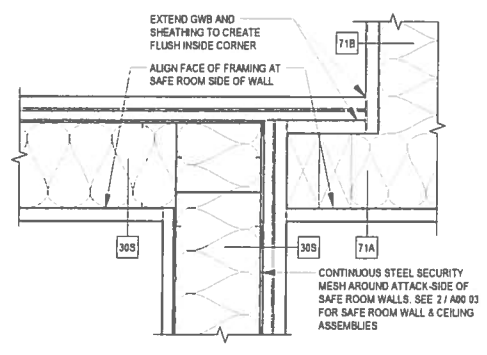
6 FURRING @ EXISTING COLUMN
3" = 1'-0"



1 TYP DOSING WINDOW ELEVATION
1" = 1'-0"



9 INTERIOR FURRING @ EXTERIOR WALLS
1 1/2" = 1'-0"



5 SAFE ROOM - CORNER DETAIL 2
3" = 1'-0"

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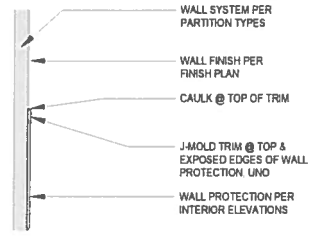
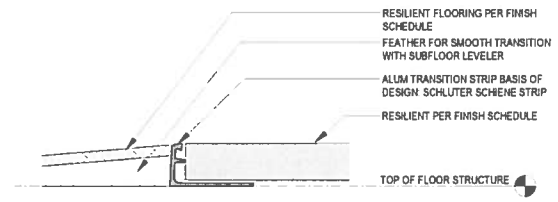
INTERIOR DETAILS

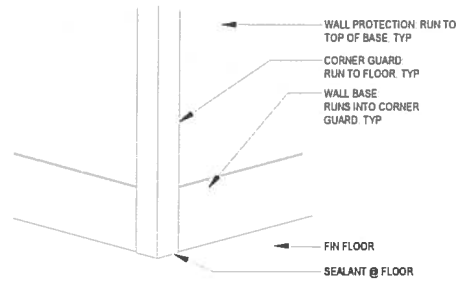
SHEET #
A70.01



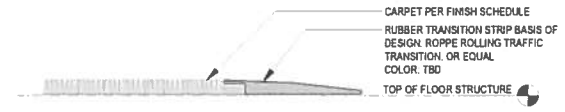
8 WALL PROTECTION TRIM DETAIL
3" = 1'-0"



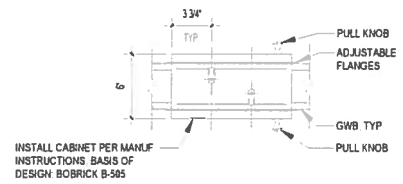
4 RESILIENT (1) TO RESILIENT (2)
12" = 1'-0"



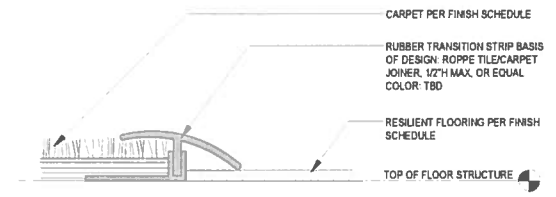
7 CORNER GUARD/WALL BASE DETAIL
NTS



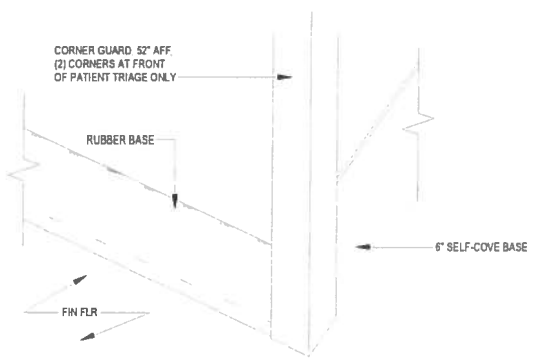
3 CARPET TO FLOOR STRUCTURE
12" = 1'-0"



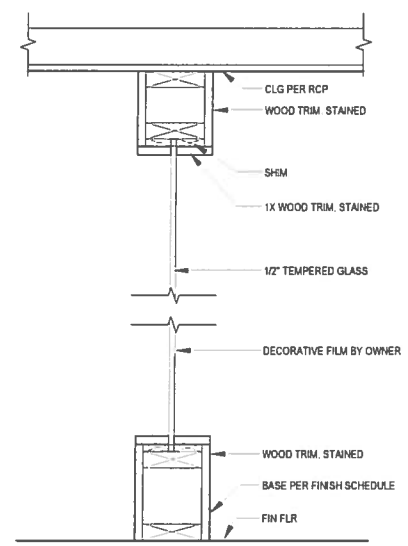
10 RECESSED SPECIMEN PASS-THRU DETAIL
1 1/2" = 1'-0"



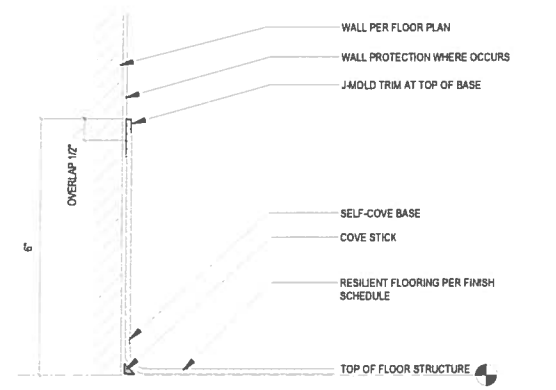
2 CARPET TO RESILIENT
12" = 1'-0"



9 RUBBER BASE @ SELF-COVE BASE DETAIL
3" = 1'-0"



5 DECORATIVE SCREEN DETAIL
1 1/2" = 1'-0"



1 RESILIENT W/COVE BASE
6" = 1'-0"

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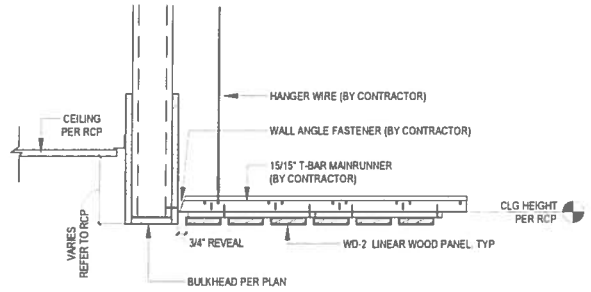
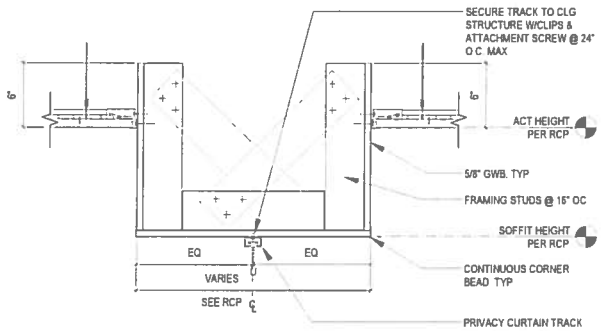
FINISH DETAILS

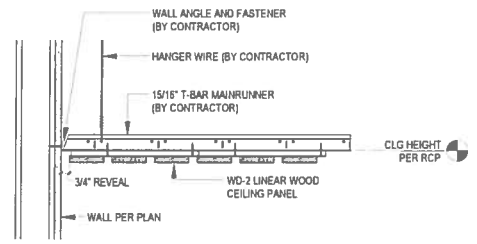
SHEET #
A71.01



8 WOOD CEILING SECTION @ SOFFIT
1 1/2" = 1'-0"



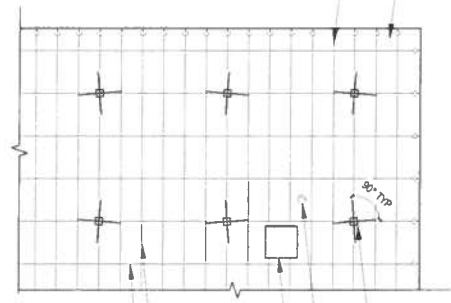
11 PRIVACY CURTAIN AT SOFFIT DETAIL
1 1/2" = 1'-0"



7 WOOD CEILING SECTION @ WALL
1 1/2" = 1'-0"

PERIMETER SUPPORT ANGLE
- THE PERIMETER SUPPORT ANGLE SHALL SUPPLY A SUPPORT LEDGE OF NOT LESS THAN 2" OR MANUFACTURER ASSEMBLY APPROVED FOR USE IN SEISMIC ZONES D, E OR F
- MAIN RUNNER OR CROSS RUNNER ENDS OR BOTH, SHALL BE ATTACHED TO THE PERIMETER ON TWO ADJACENT WALLS. A CLEARANCE OF 3/4" SHALL BE MAINTAINED BETWEEN THE MAIN RUNNER AND CROSS RUNNER ENDS AND THE PERIMETER MEMBERS ON THE TWO OPPOSITE WALLS. ON THE WALLS WHERE THE TERMINAL END RUNNERS ARE NOT FIXED TO THE PERIMETER SUPPORTING CLOSURE, ALLOW FOR 3/4" AXIAL MOVEMENT

SUSPENSION WIRE
- MIN 12 GA STEEL WIRE
- 8" MAX FROM WALL ON ALL TERMINAL ENDS OF RUNNERS
- 4'-0" OC ALONG EACH MAIN RUNNER



MAIN RUNNER, SPACING VARIES. TYP

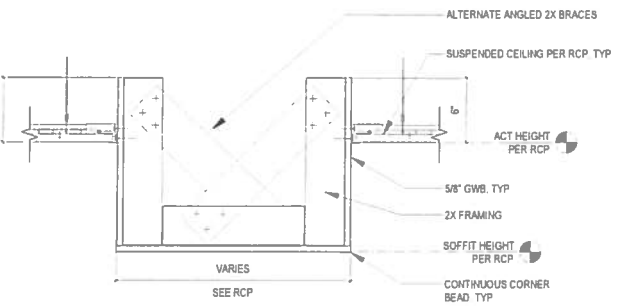
CROSS RUNNER, SPACING VARIES. TYP

PLAN DIAGRAM

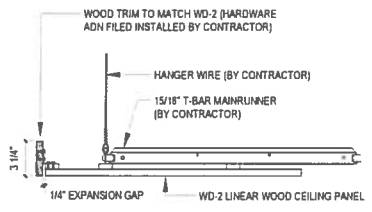
ALL CEILING PENETRATIONS (COLUMNS ETC.) AND INDEPENDENTLY SUPPORTED FIXTURES OR SERVICES SHALL BE CONSIDERED AS PERIMETER CLOSURES THAT ALSO MUST ALLOW THE REQUIRED CLEARANCES BY USING SUITABLE CLOSURE DETAIL.

SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING. SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS

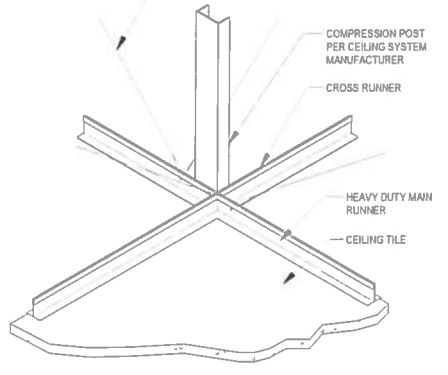
HORIZONTAL RESTRAINT POINT (SEE DIAGRAM BELOW):
- COMPRESSION POST AND BRACING WIRES
- 12'-0" OC IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" FROM EACH WALL



10 GWB SOFFIT TO ACT CEILING - 2
1 1/2" = 1'-0"

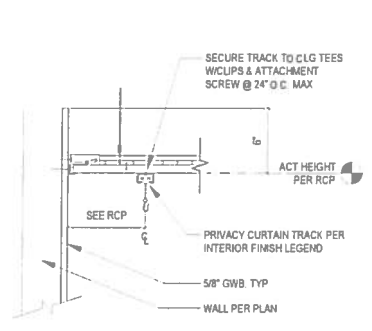


6 WOOD CEILING SECTION WITH TRIM
1 1/2" = 1'-0"

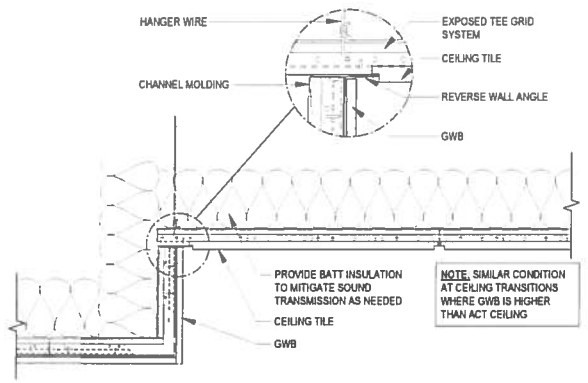


LATERAL FORCE BRACING DIAGRAM

BRACING WIRES
- (4) 12 GA WIRES ATTACHED TO THE MAIN BEAM. WIRES ARE ARRAYED 90° FROM EA OTHER & AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF CEILING
- WIRES ARE TO BE WITHIN 2" OF THE CONNECTION OF THE VERTICAL STRUT TO SUSPENDED CEILING



9 PRIVACY CURTAIN AT ACT CLG DETAIL
1 1/2" = 1'-0"



5 STEPPED GWB TO ACT TRANSITION
1 1/2" = 1'-0"

NOTES:
1. SUSPENDED CEILING SYSTEM INSTALLATION SHALL BE INSTALLED PER IBC 2018 (IBC 808 AND IBC 1604.9), ASCE 7-10 AND ASTM E580
2. THIS DETAIL APPLIES TO SEISMIC DESIGN CATEGORIES D, E AND F
3. SPREADER (SPACER) BARS OR OTHER MEANS APPROVED BY THE LOCAL BUILDING DEPT. SHALL BE USED TO PREVENT ENDS OF MAIN BEAMS AT PERIMETER WALLS FROM SPREADING OPEN DURING A SEISMIC EVENT. PERIMETER WIRES SHALL NOT BE USED IN LIEU OF SPREADER BARS.
4. FOR CEILING AREAS EXCEEDING 2,500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2,500 SF, EACH WITH A RATIO OF THE LONG TO SHORT DIMENSION LESS THAN OR EQUAL TO 4, SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING PENETRATIONS AND CLOSURE ANGLES OR CHANNELS PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES OR CHANNELS IN ACCORDANCE WITH THE PERIMETER SUPPORT ANGLE DESCRIBED ABOVE AND HORIZONTAL RESTRAINTS OR BRACING.
5. CHANGES IN CEILING PLANE ELEVATION SHALL HAVE INDEPENDENT POSITIVE BRACING.
6. PARTITIONS THAT ARE TIED TO THE CEILING AND ALL PARTITIONS GREATER THAN 6 FEET IN HEIGHT SHALL BE LATERALLY BRACED TO THE STRUCTURE. SUCH BRACING SHALL BE INDEPENDENT OF ANY CEILING LATERAL FORCE BRACING.
7. POWER ACTUATED FASTENERS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED TENSION LOADS OR FOR BRACE APPLICATIONS IN SEISMIC DESIGN CATEGORIES D, E, OR F UNLESS APPROVED FOR SEISMIC LOADING. POWER ACTUATED FASTENERS IN MASONRY ARE NOT PERMITTED UNLESS APPROVED FOR SEISMIC LOADING.
   A. EXCEPTIONS:
      a. POWER ACTUATED FASTENERS IN CONCRETE USED FOR SUPPORT OF ACOUSTICAL TILE OR LAY-IN PANEL SUSPENDED CEILING APPLICATIONS AND DISTRIBUTED SYSTEMS WHERE THE SERVICE LOAD ON ANY INDIVIDUAL FASTENER DOES NOT EXCEED 90 LB (400N).
      b. POWER ACTUATED FASTENERS IN STEEL WHERE THE SERVICE LOAD ON ANY INDIVIDUAL FASTENER DOES NOT EXCEED 250 LB (1 112N).

1 ACT - SEISMIC BRACING DETAIL
NOT TO SCALE

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CEILING DETAILS

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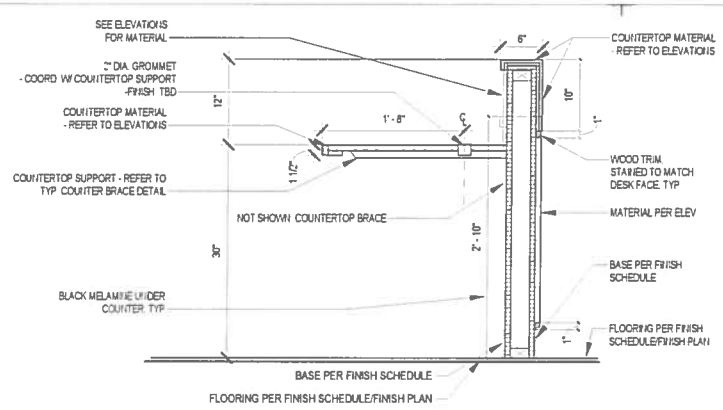
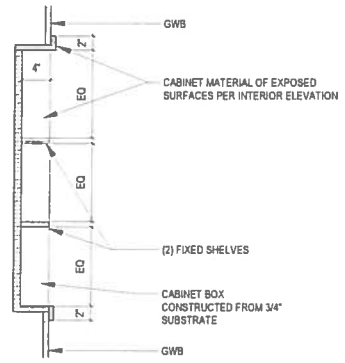


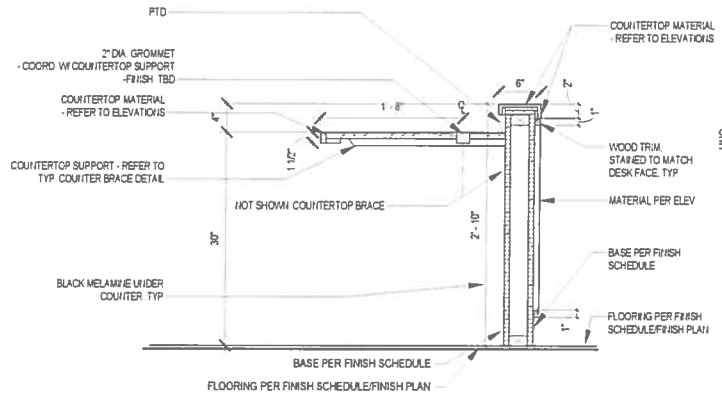
12 RECEPTION DESK DETAIL
1" = 1'-0"



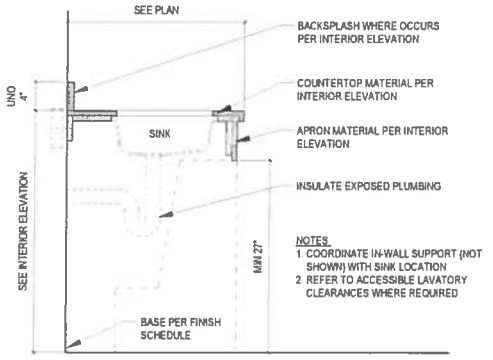
8 RECESSED SHELF DETAIL
1" = 1'-0"

CASEWORK GENERAL NOTES

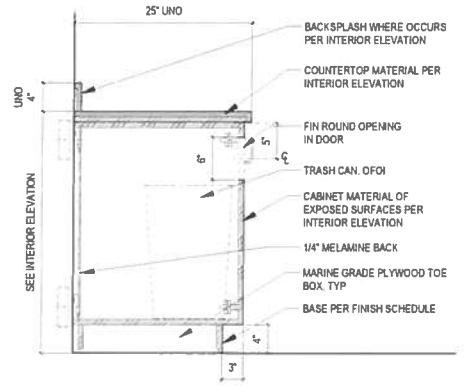
1 SEE INTERIOR ELEVATIONS FOR COUNTERTOP AND CABINET MATERIAL FINISHES
2 SEE INTERIOR ELEVATIONS FOR DOOR AND/ OR DRAWER LOCK LOCATIONS
3 BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL UNO.
4 INSTALL FLOORING BEFORE CASEWORK
5 SCRIBE COUNTERTOPS AND CABINETS TO WALL SURFACES
6 PROVIDE MARINE GRADE PLYWOOD TOE BOX UNO
7 PROVIDE 120° CONCEALED HINGES AT DOORS UNO
8 PROVIDE FULL EXTENSION GLIDES AT DRAWERS UNO
9 PROVIDE 96 MM WIRE PULLS AT DOORS AND DRAWERS UNO
10 PROVIDE IN-WALL BLOCKING BEHIND CABINETS
11 PROVIDE CONCEALED COUNTERTOP SUPPORT BRACKETS UNO



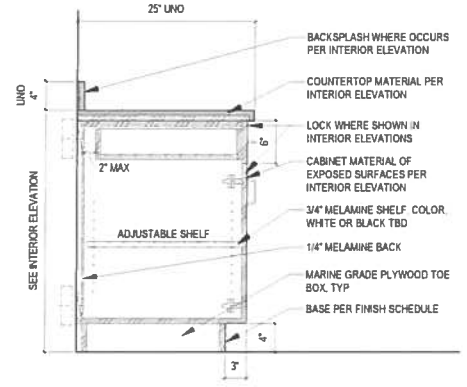
15 RECEPTION DESK DETAIL - ADA
1" = 1'-0"



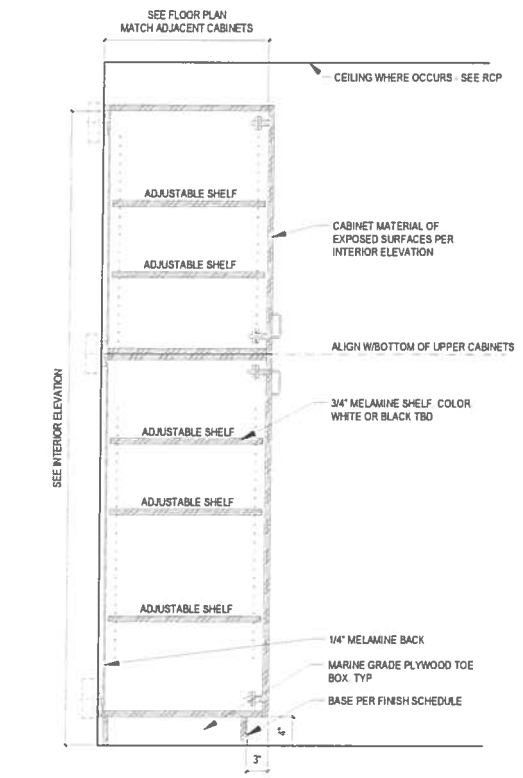
11 SINK APRON OPEN
1" = 1'-0"



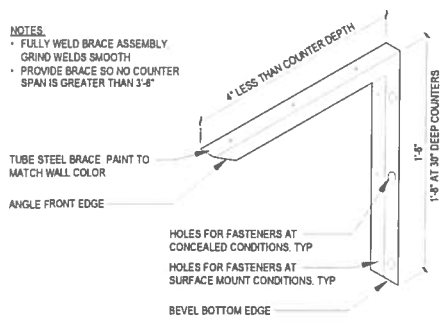
7 EXAM TRASH CABINET
1" = 1'-0"



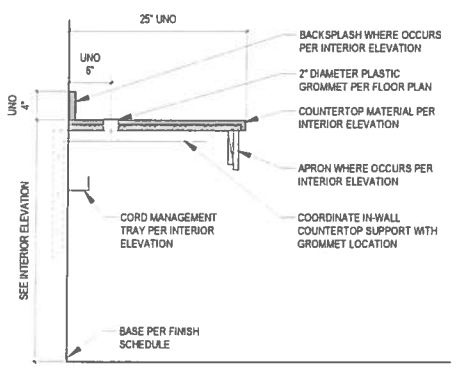
3 BASE CABINET 1-DRAWER
1" = 1'-0"



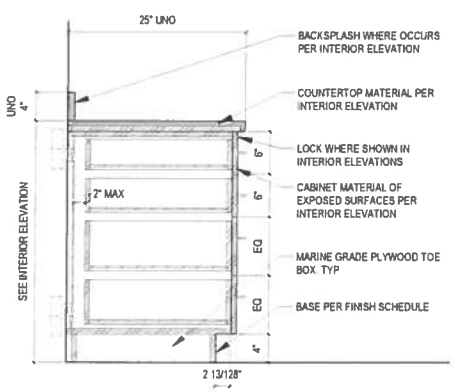
13 TALL CABINET
1" = 1'-0"



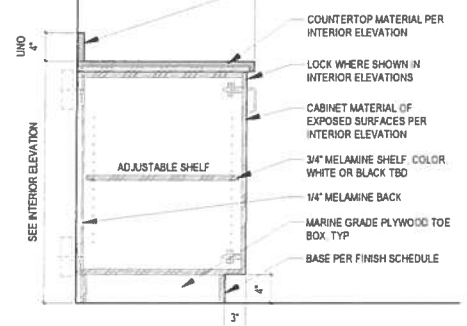
10 COUNTERTOP SUPPORT
NTS



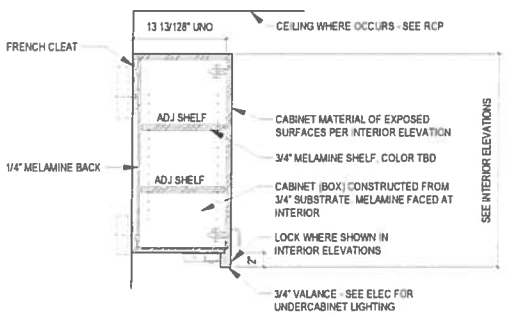
9 WORK SURFACE COUNTER
1" = 1'-0"



5 BASE CABINET 4-DRAWER
1" = 1'-0"



2 BASE CABINET
1" = 1'-0"



1 UPPER CABINET
1" = 1'-0"

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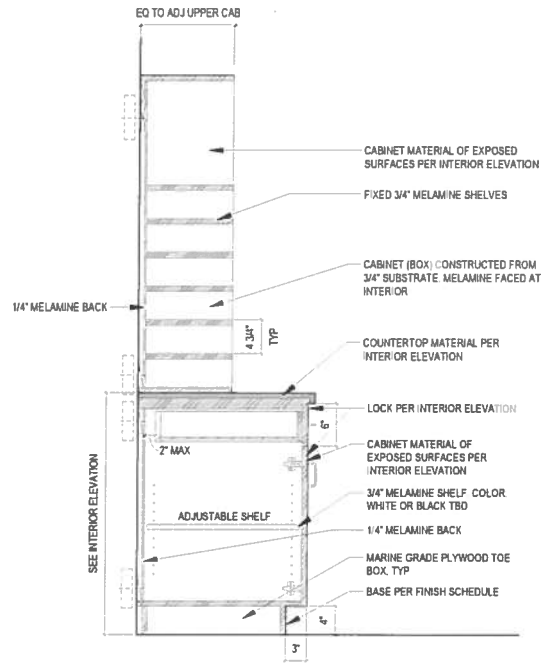
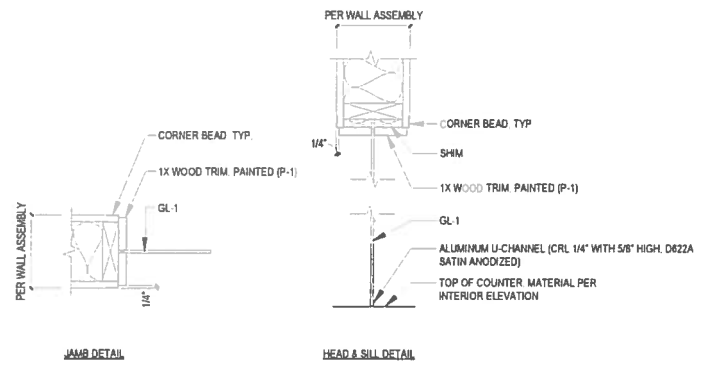


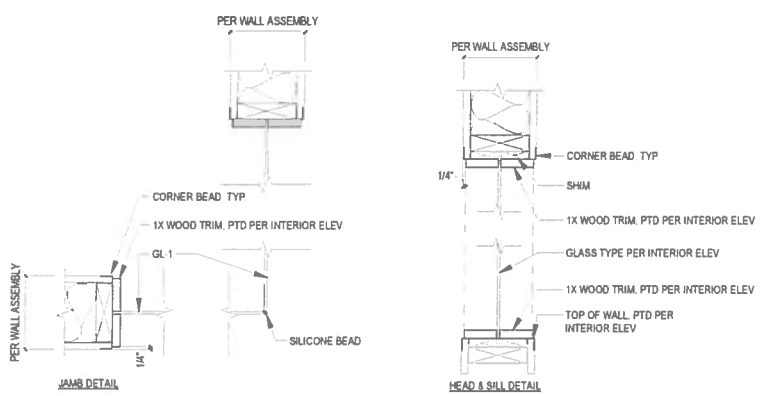
6 MAIL BOXES

1" = 1'-0"



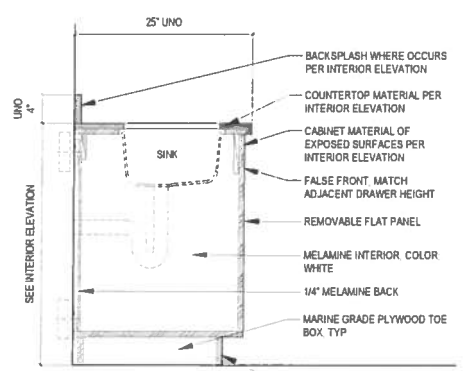
5 DOSING WINDOW SECTION DETAIL

1 1/2" = 1'-0"



7 SECURITY WINDOW SECTION DETAIL

1 1/2" = 1'-0"



4 BASE CABINET SINK-CLOSED

1" = 1'-0"

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1. SEE INTERIOR ELEVATIONS FOR COUNTERTOP AND CABINET MATERIAL FINISHES.
2. SEE INTERIOR ELEVATIONS FOR DOOR AND/OR DRAWER LOCK LOCATIONS.
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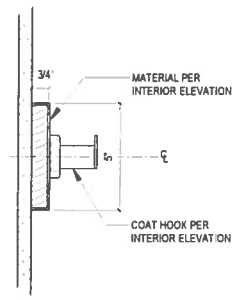
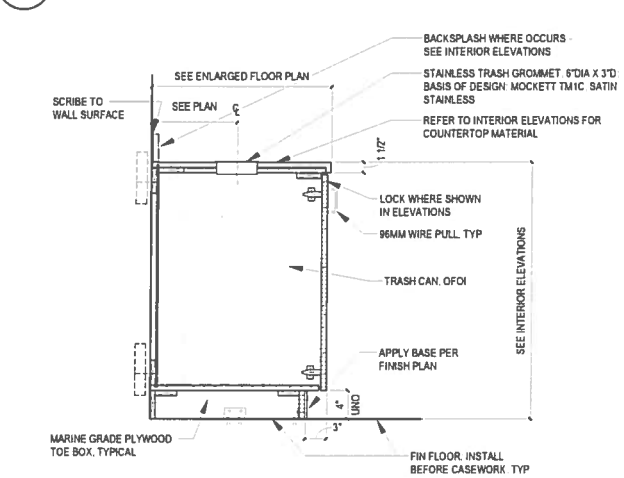
4. INSTALL FLOORING BEFORE CASEWORK.
5. SCRIBE COUNTERTOPS AND CABINETS TO WALL SURFACES.
6. PROVIDE MARINE GRADE PLYWOOD TOE BOX UNO.
7. PROVIDE 120° CONCEALED HINGES AT DOORS UNO.
8. PROVIDE FULL EXTENSION GLIDES AT DRAWERS UNO.
9. PROVIDE 96 MM WIRE PULLS AT DOORS AND DRAWERS UNO.
10. PROVIDE IN-WALL BLOCKING BEHIND CABINETS.
11. PROVIDE CONCEALED COUNTERTOP SUPPORT BRACKETS UNO.



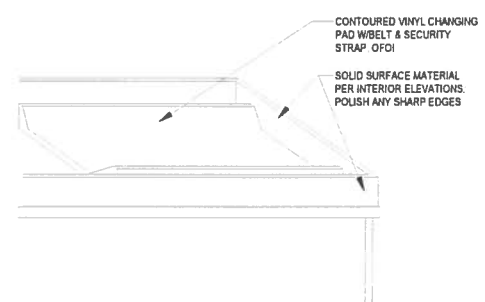
3 COAT RACK DETAIL

3" = 1'-0"



2 BASE TRASH CABINET W/DOOR

1" = 1'-0"



1 CHILD WATCH-DIAPER CHANGING COUNTER

1" = 1'-0"

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A73.02

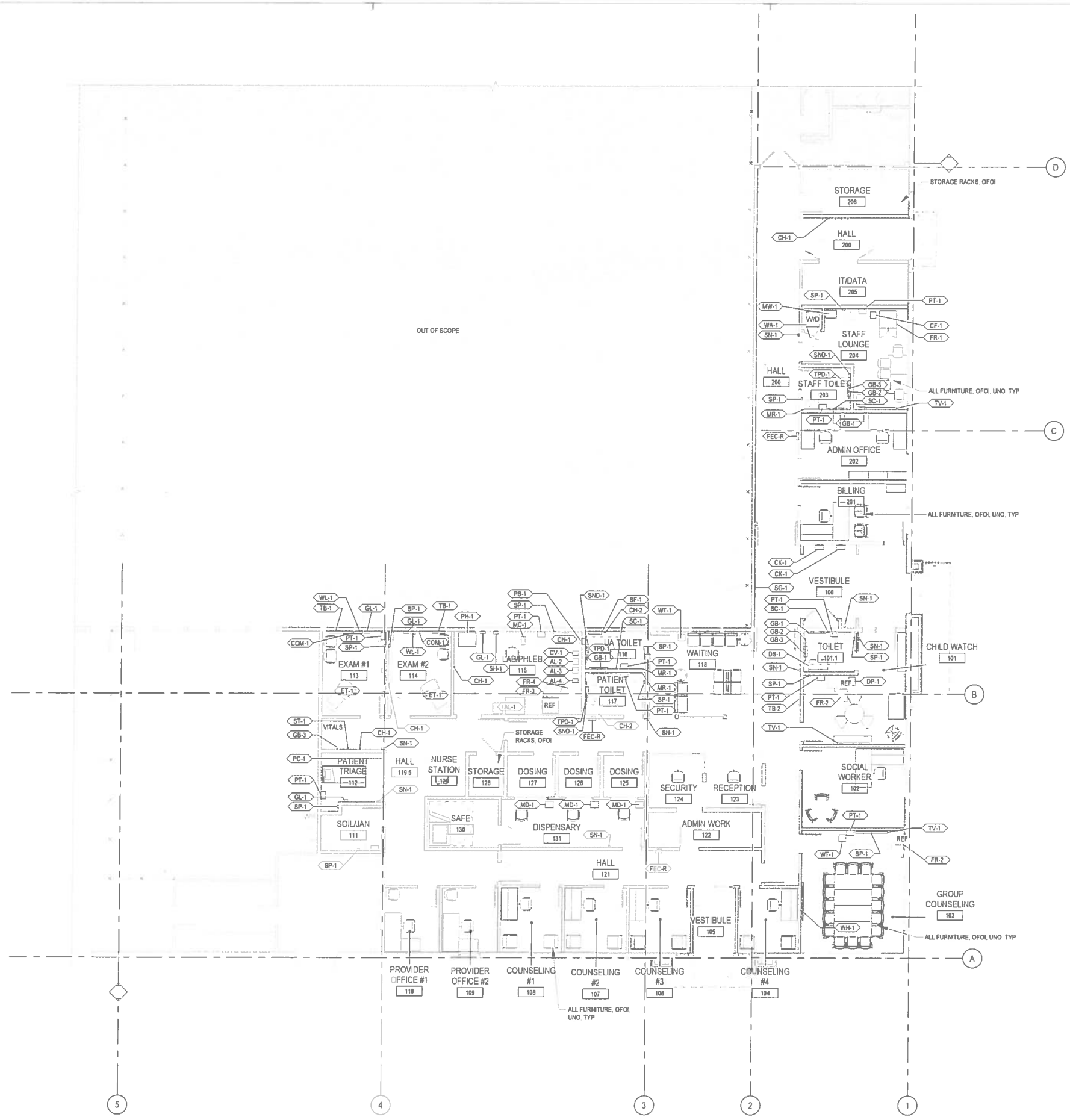
NOTES & LEGEND - FF&E PLAN

1 CONTRACTOR TO FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON EQUIPMENT SCHEDULE

CORNER GUARD
WALL GUARD

5'-0" CIRCULAR TURNING AREA

30" X 48" CLEAR FLOOR SPACE



1 FF&E PLACEMENT PLAN
1/8" = 1'-0"

NORTH

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FF&E PLACEMENT PLAN

SHEET #
A80.01

EQUIPMENT SCHEDULE

EQUIP #	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY	EQUIPMENT SIZE				PWR/DATA	PLUMBING	BACKING REQ.	NOTES
					DIAMETER	WIDTH	DEPTH	HEIGHT				
AL-1	ANALYZER	VITROS	XT 3400 CHEMISTRY SYSTEM	OFOI					PWR/DATA	--	--	
AL-2	ANALYZER, HEMATOLOGY	TO BE DETERMINED		OFOI					--	--	--	
AL-3	ANALYZER	DCA	VANTAGE	OFOI					--	--	--	
AL-4	ANALYZER	STATUS PLUS		OFOI					--	--	--	
CF-1	COFFEEMAKER	TO BE DETERMINED		OFOI					PWR	--	--	
CH-1	COAT HOOK	BOBRICK	B-6727 DOUBLE ROBE HOOK	CFCI					--	--	YES	
CH-2	COAT HOOK, VANDAL-RESISTANT	BOBRICK	B-983	CFCI					--	--	YES	
CK-1	CHECK-IN KIOSK	TO BE DETERMINED		OFOI					PWR/DATA	--	YES	
CN-1	CENTRIFUGE	UNICO	POWERSPIN	OFOI					--	--	--	
COM-1	WALL-MOUNTED COMPUTER	TO BE DETERMINED	WALL-MOUNTED COMPUTER	OFCI					PWR/DATA	--	YES	
CV-1	COVID TESTER	TO BE DETERMINED		OFOI					--	--	--	
DP-1	DIAPER DISPOSAL CAN	DIAPER GENIE		OFOI					--	--	--	
DS-1	DIAPER CHANGING STATION	KOALA KARE	KB200-05SS HORIZONTAL WALL MOUNTED. COLOR: WHITE GRANITE	CFCI					--	--	YES	
FEC-R	FIRE EXTINGUISHER CABINET, SEMI-RECESSED	TO BE DETERMINED	0.036" THICK METAL, FORMED & PRIMED. NON FIRE-RATED. CLR ACRYLIC PLASTIC DOOR GLAZING	CFCI					--	--	--	
FR-1	REFRIGERATOR	KENMORE	61205 TOP-FREEZER REFRIGERATOR, 21 CU FT. STAINLESS STEEL	CFCI					PWR	--	--	OR EQUAL
FR-2	REFRIGERATOR, UNDERCOUNTER	EDGESTAR	CBR9025G	CFCI					PWR	--	--	OR EQUAL
FR-3	LAB REFRIGERATOR	TO BE DETERMINED	FULL-SIZE REFRIGERATOR W/TEMP MONITOR	OFOI					PWR	--	--	
FR-4	REFRIGERATOR, UNDERCOUNTER	TO BE DETERMINED	UNDERCOUNTER REFRIGERATOR W/TEMP MONITOR	OFOI					PWR/DATA	--	--	
GB-1	GRAB BAR, 36"	BOBRICK	B-6806 SERIES	CFCI					--	--	--	
GB-2	GRAB BAR, 42"	BOBRICK	B-6806 SERIES	CFCI					--	--	YES	
GB-3	GRAB BAR, 18"	BOBRICK	B-6806 SERIES	CFCI					--	--	YES	
GL-1	GLOVE BOX HOLDER	MEDLINE	WIRE GLOVE DISPENSER, HORIZONTAL MOUNT, SINGLE #MDS191094	CFCI					--	--	--	
MC-1	PHLEBOTOMY CHAIR	TO BE DETERMINED		OFOI					--	--	--	
MD-1	METHADONE DISPENSER	TO BE DETERMINED		OFOI					PWR/DATA	--	--	
MO-1	MOP RACK	BOBRICK	B-223 STAINLESS STEEL MOP & BROOM HOLDER, 24"W	CFCI					--	--	YES	
MR-1	MIRROR, 24Wx36H	BOBRICK	B-1658 SERIES, TEMPERED GLASS CHANNEL FRAME	CFCI					--	--	YES	
MW-1	MICROWAVE	SHARP	R-331225 COUNTERTOP MICROWAVE, 1.1 CU FT. STAINLESS STEEL	CFCI					PWR	--	--	OR EQUAL
PC-1	PRIVACY CURTAIN TRACK	SEE INTERIOR FINISH LEGEND		CFCI					--	--	YES	
PH-1	PHLEBOTOMY CHAIR	TO BE DETERMINED		OFOI					--	--	--	
PS-1	RECESSED SPECIMEN PASS-THRU CABINET	BOBRICK	B-505	CFCI					--	--	--	
PT-1	PAPER TOWEL DISPENSER	ENMOTION	GPC59462A 10" AUTOMATED TOUCHLESS PT DISPENSER BY GP PRO, BLACK	CFCI					--	--	YES	
SC-1	SEAT COVER DISPENSER	BOBRICK	B-4221 CONTURA SERIES	CFCI					--	--	YES	
SF-1	SHELF	BOBRICK	STAINLESS STEEL SHELF B-295 x 24	CFCI					--	--	YES	
SG-1	SIGNAGE, INTERIOR	TAKEFORM, OR EQUAL		CFCI					--	--	--	PROVIDE ALL ROOM AND REQUIRED SIGNAGE, AS WELL AS DECORATIVE SIGNAGE INDICATED
SH-1	SHARPS DISPOSAL	TO BE DETERMINED		OFCI					--	--	--	
SN-1	HAND SANITIZER	ENMOTION	# GPC52057 AUTOMATED TOUCHLESS SOAP AND SANITIZER DISPENSER	CFCI					--	--	--	
SND-1	SANITARY DISPOSAL	Bobnick	B-270	CFCI					--	--	--	
SP-1	SOAP DISPENSER	ENMOTION	#52057 GEN2 AUTOMATED TOUCHLESS SOAP/SANITIZER DISPENSER, BLACK	CFCI					--	--	--	
ST-1	STADIOMETER	TO BE DETERMINED		OFCI					--	--	--	
TB-1	FRAMED TACKBOARD	GLOBAL INDUSTRIAL	ENCLOSED CORK BULLETIN BOARD, LOCKING, 1-DOOR, 24"W x 36"H	CFCI					--	--	YES	
TB-2	FRAMED TACKBOARD, LARGE	GLOBAL INDUSTRIAL	ENCLOSED CORK BULLETIN BOARD LOCKING, 1-DOOR, 48"W x 36"H	CFCI					--	--	YES	
TPD-1	TOILET PAPER DISPENSER	MEDLINE	EVSOSTPSMC SMALL CORE TOILET PAPER DISPENSER, BLACK	CFCI					--	--	YES	
TR-1	TOOL RAIL	TO BE DETERMINED		OFCI					PWR	--	YES	
TV-1	WALL-MOUNTED TV, LARGE	TO BE DETERMINED		OFCI					PWR/DATA	--	YES	
WA-1	WASHER/DRYER, STACKING	GE	GUD24GSSMWW UNITIZED SPACEMAKER 2.3 CU FT WASHER & 4.4 CU FT DRYER, WHITE	CFCI					PWR	YES	--	OR EQUAL
WH-1	WHITEBOARD	CLARUS, OR EQUAL	FLOAT GLASS WHITEBOARD, 48"x72" NON-MAGNETIC, BOX TRAY. COLOR: TBD	CFCI					--	--	YES	
WL-1	WALL PHONE	TO BE DETERMINED		OFOI						--	--	
WT-1	WATER DISPENSER	TO BE DETERMINED		OFCI					PWR	YES	--	

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PROJECT # 2015106 11
BID SET / CONSTRUCTION DOCUMENTS
ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

EQUIPMENT SCHEDULE

SHEET #
A80.02

ABBREVIATIONS

&	- AND
@	- AT
°, DEG	- DEGREE
Ø, DIA	- DIAMETER
(E), EXIST	- EXISTING
#, NO	- NUMBER
#, LB	- POUND
AB	- ANCHOR BOLT
ABV	- ABOVE
ADDL	- ADDITIONAL
ADH	- ADHESIVE
ADJ	- ADJACENT
AFS	- ABOVE FINISHED SLAB
ALT	- ALTERNATE
ALUM	- ALUMINUM
APPROX	- APPROXIMATE
AR	- AS REQUIRED
ARCH	- ARCHITECTURAL
ASPH	- ASPHALT
ASSY	- ASSEMBLY
BASE PL	- BASE PLATE
BLDG	- BUILDING
BLKG	- BLOCKING
BLW	- BELOW
BM(S)	- BEAM(S)
BO XXX	- BOTTOM OF XXX
BOT	- BOTTOM
BRB	- BUCKLING RESTRAINED BRACE
BRG	- BEARING
BS	- BOTH SIDES
BTWN	- BETWEEN
C	- CHANNEL
CANT	- CANTILEVER
CDF	- CONTROLLED DENSITY FILL
CEM PLAS	- CEMENT PLASTER
CFS	- COLD FORMED STEEL
CIP	- CAST-IN-PLACE
CJ	- CONSTRUCTION JOINT/ CONTROL JOINT
CJP	- COMPLETE JOINT PENETRATION WELD
CL	- CENTER LINE
CLR	- CLEAR(ANCE)
CMU	- CONCRETE MASONRY UNIT
COL	- COLUMN
CONC	- CONCRETE
CONN	- CONNECT(ION)
CONSTR	- CONSTRUCTION
CONT	- CONTINUOUS
CONTR	- CONTRACTOR
COORD	- COORDINATE
CSK	- COUNTER SUNK
CTR	- CENTER(ED)
D	- DEPTH/DEEP
DC	- DEMAND CRITICAL
DBL	- DOUBLE
DEG	- DEGREE
DEMO	- DEMOLITION
DET	- DETAIL
DIA	- DIAMETER
DIAG	- DIAGONAL/DIAGRAM
DIM	- DIMENSION
DIST	- DISTANCE
DN	- DOWN
DWG	- DRAWING
DWL	- DOWEL
EA	- EACH
EF	- EACH FACE
EJ	- EXPANSION JOINT
EL	- ELEVATION
ELEC	- ELECTRICAL
ELEV	- ELEVATOR
EMBED	- EMBEDMENT/EMBEDDED
EOS	- EDGE OF SLAB
EQ	- EQUAL
EQL SPCD	- EQUALLY SPACED
EQUIP	- EQUIPMENT
ES	- EACH SIDE
ESC	- ESCALATOR
EW	- EACH WAY
EXP	- EXPANSION
EXT	- EXTERIOR
FIN	- FINISH(ED)
FLG	- FLANGE
FLR	- FLOOR
FO XXX	- FACE OF XXX
FOC	- FACE OF CONCRETE
FOF	- FACE OF FINISH
FOS	- FACE OF STEEL
FP	- FIREPROOF(ING)/FIRE PROTECTION
FRT	- FIRE RETARDANT TREATED
FS	- FAR SIDE
FT	- FOOT, FEET
FTG	- FOOTING
GA	- GAGE/GAUGE
GALV	- GALVANIZED
GEN	- GENERAL
GLB	- GLUE LAMINATED TIMBER
GR	- GRADE
GB	- GRADE BEAM
GYP BD	- GYPSUM BOARD
H	- HIGH
HDR	- HEADER
HGR	- HANGER
HLDN	- HOLDOWN
HORIZ	- HORIZONTAL
HSS	- HOLLOW STRUCTURAL SECTION
HT	- HEIGHT
HVAC	- HEATING, VENTILATING AND AIR CONDITIONING
ID	- INSIDE DIAMETER
IF	- INSIDE FACE
IJ	- ISOLATION JOINT
IL	- INSIDE LAYER
IN	- INCHES
INFO	- INFORMATION
INSUL	- INSULATE/INSULATION
INT	- INTERIOR
JST	- JOIST
JT	- JOINT
KIP	- 1,000 POUNDS
KSI	- KIPS PER SQUARE INCH
KWY	- KEYWAY
L	- ANGLE/LENGTH
LBR	- LUMBER
LLBB	- LONG LEG BACK TO BACK
LLH	- LONG LEG HORIZONTAL
LLV	- LONG LEG VERTICAL
LOC	- LOCATION
MAX	- MAXIMUM
MB	- MACHINE BOLT
MBR	- MEMBER
MECH	- MECHANICAL
MEZZ	- MEZZANINE
MFR	- MANUFACTURE(R/D)
MFR REC	- MANUFACTURER'S RECOMMENDATIONS
MH	- MANHOLE
MID	- MIDDLE
MIN	- MINIMUM
MISC	- MISCELLANEOUS
NA	- NOT APPLICABLE
NIC	- NOT IN CONTRACT
NIP	- NOT IN PERMIT
NORM	- NORMAL
NO	- NUMBER
NS	- NEAR SIDE
NTS	- NOT TO SCALE
OC	- ON CENTER
OD	- OUTSIDE DIAMETER
OF	- OUTSIDE FACE
OFS	- OUTSIDE FACE OF STUDS
OL	- OUTSIDE LAYER
OPH	- OPPOSITE HAND
OPNG	- OPENING
OPP	- OPPOSITE
OVS	- OVERSIZED
PAF	- POWER ACTUATED FASTENER
PAR	- PARALLEL/PARAPET
PC	- PRECAST CONCRETE
PEN	- PENETRATE/PENETRATION
PIL	- PILASTER
PJP	- PARTIAL JOINT PENETRATION WELD
PL	- PLATE
PLCS	- PLACES
PNL	- PANEL
PREFAB	- PREFABRICATED
PSF	- POUNDS PER SQUARE FOOT
PSI	- POUNDS PER SQUARE INCH
PT	- POST TENSIONED/ PRESSURE TREATED
PUR	- PURLIN
R	- RADIUS
RC	- REINFORCED CONCRETE
RD	- ROOF DRAIN
REF	- REFERENCE
REINF	- REINFORCING
REQD	- REQUIRED
RO	- ROUGH OPENING
RTU	- ROOFTOP UNIT
SC	- SLIP CRITICAL
SCHED	- SCHEDULE
SECT	- SECTION
SEOR	- STRUCTURAL ENGINEER OF RECORD
SLBB	- SHORT LEG BACK TO BACK
SLRS	- SEISMIC LOAD RESISTING SYSTEM
SHT	- SHEET
SHTHG	- SHEATHING
SIM	- SIMILAR
SMS	- SHEET METAL SCREW
SPEC	- SPECIFICATION
SPCS	- SPACES
SQ	- SQUARE
SSH	- SHORT SLOTTED HOLE
SST	- STAINLESS STEEL
STD	- STANDARD
STIF	- STIFFENER
STL	- STEEL
STL JST	- STEEL JOIST
STRUCT	- STRUCTURAL
SYMM	- SYMMETRICAL
TB	- THROUGH BOLT
TBC	- THREADED BAR COUPLER
TBR	- TO BE REMOVED
THK	- THICK(NESS)
TO XXX	- TOP OF XXX
TOC	- TOP OF CONCRETE
TOF	- TOP OF FOOTING
TOGB	- TOP OF GRADE BEAM
TOS	- TOP OF STEEL
TOSL	- TOP OF SLAB
TOW	- TOP OF WALL
TRANSV	- TRANSVERSE
TRTD	- TREATED
TYP	- TYPICAL
T/C	- TENSION/COMPRESSION CORD
T&B	- TOP AND BOTTOM
T&G	- TONGUE AND GROOVE
UON	- UNLESS OTHERWISE NOTED
VIF	- VERIFY IN FIELD
VNR	- VENEER
VERT	- VERTICAL
W	- WIDE/WIDTH
WD	- WOOD
WF	- WIDE FLANGE
WO	- WHERE OCCURS
WP	- WATERPROOFING/WORK POINT
WT	- WEIGHT
WWF	- WELDED WIRE FABRIC
WWM	- WELDED WIRE MESH
W/	- WITH
W/O	- WITHOUT
YD	- YARD

BUILDING CODE

1. ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THESE DRAWINGS, SPECIFICATIONS, AND THE CODES, RULES AND REGULATIONS OF THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, AS ADOPTED AND AMENDED BY THE CITY OF TULALIP, WASHINGTON HEREINAFTER REFERRED TO AS THE BUILDING CODE.

2. WHERE NOTED IN THE STRUCTURAL NOTES, CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL ALSO CONFORM TO THE FOLLOWING STANDARDS. WHERE THESE STANDARDS CONFLICT WITH THE BUILDING CODE, THE CODE SHALL GOVERN

GENERAL

ASCE 7	"MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE/SEI 7 - 2010 EDITION

HOT ROLLED STEEL

AISC-360	"SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN INSTITUTE OF STEEL CONSTRUCTION ANSI/AISC 360 - 2010 EDITION
AISC-303	"CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC 303 - 2010 EDITION

CONCRETE

ACI-318	"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AMERICAN CONCRETE INSTITUTE ACI 318 - 2014 EDITION
ACI-301	"SPECIFICATIONS FOR STRUCTURAL CONCRETE" AMERICAN CONCRETE INSTITUTE ACI 301 - 2010 EDITION
ACI-315	"DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AMERICAN CONCRETE INSTITUTE ACI 315 - 1999 EDITION
ACI-117	"STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS" AMERICAN CONCRETE INSTITUTE ACI 117 - 2010 EDITION

COLD FORMED STEEL

AISI	"NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AMERICAN IRON AND STEEL INSTITUTE 2012 EDITION
AWS D1.3	"STRUCTURAL STEEL WELDING CODE - SHEET STEEL" AMERICAN WELDING SOCIETY AWS D1.3 - 2008 EDITION

WOOD

NDS	"NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AMERICAN WOOD COUNCIL ANSI/AWC NDS - 2015 EDITION
SDPWS	"SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC" AMERICAN WOOD COUNCIL AWC SDPWS - 2015 EDITION

DESIGN CRITERIA

1 DEAD LOAD CRITERIA

WOOD DECK	10 PSF
WOOD FLOORS	15 PSF
WOOD ROOF	13 PSF
MECHANICAL EQUIPMENT	SELF-WEIGHT

2 LIVE LOAD CRITERIA

FLOOR	
PATIENT ROOMS	40 PSF (REDUCIBLE)
OFFICE	50 PSF (REDUCIBLE)
ASSEMBLY	100 PSF
EGRESS WAYS AND STAIRS	100 PSF
STORAGE (LIGHT)	125 PSF

3 SNOW DESIGN CRITERIA

MINIMUM ROOF SNOW LOAD	25 PSF

4 WIND DESIGN CRITERIA

3-SECOND GUST WIND SPEED V =	110 MPH
EXPOSURE FACTOR	C
IMPORTANCE FACTOR I =	1.00
TOPOGRAPHIC FACTOR KZT =	1.00
INTERNAL PRESSURE COEFFICIENT GCPI =	0.18

5 SEISMIC DESIGN CRITERIA

SEISMIC USE GROUP	II
SITE CLASS	D
IMPORTANCE FACTOR I =	1.00
SS =	1.169
S1 =	0.452
SDS =	0.805
SD1 =	0.466
SEISMIC DESIGN CATEGORY	D

6 FOUNDATION DESIGN CRITERIA

* SOIL PROFILE TYPE =	SITE CLASS D
* FOUNDATION TYPE =	SPREAD AND STRIP FOOTINGS
* ALLOWABLE SOIL BEARING PRESSURE =	1500 PSF
* PASSIVE EARTH PRESSURE =	150 PCF
* FRICTION COEFFICIENT =	0.25

* BASED UPON THE PRESUMPTIVE SOIL BEARING VALUES FOUND IN IBC TABLE 1806.2.

GENERAL NOTES

1. THE STRUCTURAL DRAWINGS REPRESENT THE DESIGN OF THE PRIMARY STRUCTURE BASED ON PRESCRIBED LOADS, (SEE "DESIGN CRITERIA" SECTION), IMPOSED ON THE STRUCTURE PER THE BUILDING CODE AS SPECIFIED IN THE "BUILDING CODE" SECTION. THE PRIMARY STRUCTURE OF THE BUILDING IS DEFINED AS THE FOUNDATIONS, BEARING WALLS, SHEAR WALLS, COLUMNS, BEAMS, SLABS, FLOOR FRAMING AND LATERAL FORCE RESISTING ELEMENTS REQUIRED TO MAINTAIN THE STABILITY OF THE COMPLETED STRUCTURE AS A WHOLE.

2. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND THE CODES, RULES AND REGULATIONS OF THE BUILDING CODE AS DEFINED IN THE "BUILDING CODE" SECTION. CONSTRUCTION TOLERANCES SHALL CONFORM TO THE BUILDING STANDARDS SPECIFIED IN THE "BUILDING CODE" SECTION

3. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING AS REQUIRED FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL MEMBERS ARE IN PLACE AND FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK

6. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES IN A PROMPT MANNER.

7. FRAMING MEMBERS WHICH ARE NOT DIMENSIONED SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED POINT OF MEMBERS.

8. IF ANY ERRORS OR OMISSIONS APPEAR TO EXIST IN THESE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS; THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR BEFORE PROCEEDING WITH THE WORK

9. NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NOTES AND DETAILS ON DRAWINGS AND THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE PROJECT SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR WORK, SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER

10. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH DRAWINGS FROM ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL.

11. SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR THE FOLLOWING:
    - A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS AND THRESHOLD REQUIREMENTS.
    - B. SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
    - C. SIZE AND LOCATION OF ROOF, FLOOR AND WALL OPENINGS.
    - D. DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

12. SEE MECHANICAL, PLUMBING, ELECTRICAL AND OTHER SPECIALTY DRAWINGS AND PROJECT SPECIFICATIONS FOR THE FOLLOWING:
    - A. PIPE RUNS, SLEEVES, HANGERS, DUCTS, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT SHOWN OR NOTED.
    - B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
    - C. ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT TO THE STRUCTURE.
    - D. SIZE, WEIGHT AND LOCATION OF EQUIPMENT

13. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

14. MATERIAL SPECIFICATIONS ARE ASTM LATEST EDITION.

15. ALL MATERIALS SHALL BE DELIVERED, STORED AND HANDLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. PROTECT ALL ITEMS FROM DAMAGE, MOISTURE, CORROSION, OR DETERIORATION BEFORE, DURING AND AFTER INSTALLATION.

EXISTING CONSTRUCTION

1. EXISTING STRUCTURAL DIMENSIONS AND MEMBERS SIZES ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION. THE CONTRACTOR SHALL VERIFY THE ACTUAL CONFIGURATION OF EXISTING CONSTRUCTION AND THE CONDITION OF THE STRUCTURE BEFORE BEGINNING WORK. ANY DISCREPANCIES OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION BEFORE BEGINNING WORK. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, EMBEDMENTS AND OPENINGS NOT SHOWN. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL PLANS FOR DUCTS, PIPING, EMBEDMENTS, AND OPENINGS NOT SHOWN

2. TEMPORARY SHORING AND BRACING MAY BE NECESSARY IN ORDER TO PERFORM THE NECESSARY STRUCTURAL MODIFICATIONS TO THE EXISTING STRUCTURE SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. THE CONTRACTOR MUST SUBMIT PLANS AND SUPPORTING CALCULATIONS PREPARED BY A DESIGN PROFESSIONAL LICENSED TO PERFORM WORK IN THE PROJECT JURISDICTION

3. WHERE NEW STRUCTURAL WORK IS BEING PERFORMED, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AS REQUIRED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO BEGINNING WORK

4. EXISTING CONSTRUCTION, FRAMING MEMBERS AND DIMENSIONS HAVE BEEN ESTABLISHED BASED ON REVIEW OF THE AVAILABLE CONSTRUCTION DRAWINGS FOR THE ORIGINAL BUILDING. ONLY LIMITED FIELD VERIFICATION HAS BEEN PERFORMED. ANY DISCREPANCIES CONCERNING HOW NEW WORK RELATES TO THE AS-BUILT CONSTRUCTION SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BEGINNING WORK

5. UNLESS SPECIFIED OTHERWISE, LOCATION AND ELEVATION OF NEW STRUCTURAL ELEMENTS WITHIN THE EXISTING STRUCTURE ARE DETERMINED BY THEIR RELATIONSHIP TO EXISTING CONDITIONS. THESE RELATIONSHIPS ARE NOTED ON THE PLANS, SECTIONS AND DETAILS.

6. WHEN PROVIDED, DEMOLITION DRAWINGS INDICATE DEMOLITION EXTENT ASSOCIATED WITH THE ACTUAL SIZE OF THE NEW ELEMENT. THE EXTENT OF DEMO MAY NOT REFLECT ADDITIONAL DEMOLITION REQUIRED TO INSTALL NEW ELEMENTS. IN ADDITION TO WHAT IS SHOWN ON THE ARCHITECTURAL DEMOLITION DRAWINGS, MINOR LOCAL DEMOLITION OF EXISTING ELEMENTS MAY BE REQUIRED TO PERFORM THE STRUCTURAL WORK AS INDICATED ON THE PLANS, SECTIONS AND DETAILS.

DEMOLITION

1. ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A MANNER AS NOT TO DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN A PART OF THE FINISHED STRUCTURE.

2. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

3. ALL ELEMENTS OF THE STRUCTURE THAT ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST

SPECIAL INSPECTION

1. SPECIAL INSPECTION BY A REGISTERED DEPUTY BUILDING INSPECTOR, IN CONTRACT WITH THE OWNER AND APPROVED BY THE ARCHITECT AND THE BUILDING OFFICIAL, SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK (SEE THE PROJECT SPECIFICATIONS FOR FURTHER REQUIREMENTS):

ITEM	BUILDING CODE REFERENCE
SPECIAL SYSTEMS EXPANSION/EPOXY ANCHOR BOLTS	1705.1.1

2. EPOXY OR EXPANSION TYPE ANCHORS SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR THEIR USE AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND ICC PRODUCT APPROVAL CONDITIONS

3. SUMMARY REPORTS OF ALL INSPECTIONS AND TEST RESULTS SHALL BE DISTRIBUTED TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING OFFICIAL WITH DEFICIENCIES CLEARLY NOTED

4. DEFICIENCIES SHALL BE REPORTED TO THE CONTRACTOR ON A DAILY BASIS

5. DEFINITIONS OF SPECIAL INSPECTIONS AND TESTING FREQUENCY:
    - A. (PER) PERIODIC OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK
    - B. (CONT) CONTINUOUS OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH THE GOVERNING CODE. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEMS AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.

2. THE OWNER SHALL EMPLOY AN ENGINEER OR ARCHITECT LICENSED TO PERFORM STRUCTURAL OBSERVATION IN THE PROJECT JURISDICTION

3. THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE COMMUNICATION BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND SPECIAL INSPECTORS. THE PURPOSE OF THIS COMMUNICATION SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS

4. REPORTS SHALL BE ISSUED FOR EACH STRUCTURAL OBSERVATION AND ISSUED TO THE OWNER, ARCHITECT, CONTRACTOR AND BUILDING OFFICIAL.

5. THE CONTRACTOR SHALL SCHEDULE EACH OBSERVATION AT LEAST TWO WEEKS PRIOR TO DATE OF THE PROPOSED OBSERVATION.

6. THE STRUCTURAL OBSERVER SHALL PERFORM OBSERVATIONS AT THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES.

   CONSTRUCTION STAGES ELEMENTS/CONNECTIONS TO BE OBSERVED

   A) AT SUBSTANTIAL COMPLETION OF THE PRIMARY STRUCTURE, BUT BEFORE FINISHES/COVERINGS ARE INSTALLED

SUBMITTALS

1. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION/ ERECTION/ INSTALLATION. THESE ITEMS ARE IN ADDITION TO ANY SUBMITTAL REQUIREMENTS SPECIFIED ON THESE PLANS OR IN THE PROJECT SPECIFICATIONS.

STRUCTURAL SUBMITTALS

ITEM	PROD DATA	SHOP DWGS	TEST RESULTS	CALCS	BLDG DEPT
COLD FORMED STEEL	YES	YES	-	-	-
CONCRETE MATERIALS	YES	-	YES	-	-
EPOXY AND EXPANSION ANCHORS	YES	-	-	-	-
GROUT	YES	-	-	-	-
MECHANICAL, ELECTRICAL, PLUMBING, PIPING & EQUIPMENT ANCHORAGE	-	YES	-	YES	YES
STEEL REINFORCING	YES	YES	YES	-	-
STRUCTURAL STEEL	-	YES	-	-	-

2. "PROD DATA" - SUBMIT ADEQUATE DOCUMENTATION THAT THE PRODUCT PROPOSED TO BE USED MEETS THE REQUIREMENTS ON THESE PLANS AND THE PROJECT SPECIFICATIONS.

3. "SHOP DWGS" - SUBMIT COMPLETE SHOP DRAWINGS SUFFICIENT TO SHOW QUANTITIES AND KINDS OF MATERIALS, METHODS OF ASSEMBLY, AND ALL DATA REQUIRED FOR FABRICATION, ERECTION, AND INSTALLATION. THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT DOCUMENTED HEREIN. SUBMITTALS CONSISTING OF DRAWINGS TAKEN DIRECTLY FROM THESE PLANS WILL NOT BE APPROVED. IF DEVIATIONS, DISCREPANCIES OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER REVIEW BY THE STRUCTURAL ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. RESPONSIBILITY FOR ADHERENCE TO THE CONTRACT DOCUMENTS LIES SOLELY WITH THE CONTRACTOR. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE STRUCTURAL ENGINEER AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR.

4. "TEST RESULTS" - SUBMIT RESULTS FOR ANY TESTING REQUIRED BY BUILDING CODE OR THESE PLANS

5. "CALCS" - SUBMIT SIGNED AND SEALED PREPARED BY A DESIGN PROFESSIONAL AUTHORIZED TO PERFORM WORK IN THE PROJECT JURISDICTION. CALCULATIONS SHALL INDICATE THE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER SHALL BE RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS

6. "BLDG DEPT" - IF CHECKED, THE SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE BUILDING OFFICIAL PRIOR TO FABRICATION AND/OR INSTALLATION.

7. THE CONTRACTOR SHALL REVIEW, STAMP AND APPROVE SUBMITTALS PRIOR TO REVIEW BY THE STRUCTURAL ENGINEER. UNREVIEWED OR UNSTAMPED SUBMITTALS WILL BE RETURNED TO THE CONTRACTOR UNREVIEWED.

SUBMITTALS CONT

8. THE CONTRACTOR SHALL ALLOW TWO WEEKS FOR REVIEW OF SUBMITTALS. COMMENTS OR MARKS ON SUBMITTALS ARE A NORMAL AND EXPECTED PART OF THE SUBMITTAL PROCESS AND SHALL NOT BE USED AS A BASIS FOR CHANGE ORDERS. TIME REQUIRED TO REVISE AND RESUBMIT ANY SUBMITTAL SHALL BE CONSIDERED INHERENT IN THE TO THE SUBMITTAL REVIEW PROCESS AND SHALL NOT BE DEEMED A CHANGE ORDER.

9. RESUBMITTALS SHALL HAVE ALL REVISIONS CLEARLY IDENTIFIED WITH DRAWING CLOUDS AND REVISION DATES. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE REVIEW OF ANY UNMARKED REVISIONS.

FOUNDATIONS

1. ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 18 INCHES BELOW LOWEST ADJACENT FINAL FINISH FLOOR OR GRADE

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND ACI SPECIFICATIONS

2. CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS IN ADDITION TO THE REQUIREMENTS IN THESE DRAWINGS. WHERE THE SPECIFICATIONS APPEAR TO CONFLICT WITH THE REQUIREMENTS IN THESE DRAWINGS, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT/STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK

3. CONCRETE SHALL CONFORM TO THE STRENGTH, WATER-CEMENT RATIO, EXPOSURE CLASS, MAXIMUM UNIT WEIGHT AND CEMENT TYPE SPECIFIED IN THE SCHEDULE BELOW. CONCRETE STRENGTHS SHALL BE VERIFIED BY 28-DAY CYLINDER TESTS.

CONCRETE REQUIREMENTS

ELEMENT	STRENGTH f'c (psi)	MAX W/C RATIO	EXPOSURE CLASS	CEMENT TYPE	COARSE AGGREGATE (MAX)	AIR CONTENT (SEE NOTE H)
EXTERIOR FOOTINGS	4,500	0.50	F2, W1	II	1 ½"	6%
EXTERIOR WALLS	4,000	0.45	F1, W1	II	¾"	5%
INTERIOR SLABS ON GRADE	3,000	0.50*	-	I OR II	1"	-

- A. EXPOSURE CLASSES ARE C0, F0, S0, W0 UNLESS NOTED OTHERWISE IN THE TABLE ABOVE.
- B. CONCRETE MIXES SHALL COMPLY WITH ACI 318 SECTION 19.3.3 FOR THE EXPOSURE CLASSES INDICATED THE TABLE ABOVE. FOR CLASSES F1 THROUGH F3, AIR ENTRAINMENT SHALL MEET THE REQUIREMENTS OF ACI-318 TABLE 19.3.3.1
- C. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 OF THE TYPE SPECIFIED IN THE TABLE ABOVE
- D. COARSE AND FINE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33
- E. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330
- F. WATER SHALL BE CLEAR AND SHALL CONFORM TO ASTM C-1602
- G. CONCRETE MIXING OPERATIONS SHALL CONFORM TO ASTM C-94.
- H. ALL EXTERIOR CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT CONFORMING TO ACI 318 TABLE 19.3.3.1. AIR ENTRAINMENT SHALL CONFORM TO ASTM C-260

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT PLACED IN CAST-IN-PLACE CONCRETE

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2"
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
BEAMS, COLUMNS:	1 1/2"
SLABS, WALLS, JOISTS	
#14 AND #18 BARS	1 1/2"
#11 BARS AND SMALLER	3/4"

5. OBSERVE ALL ACI RECOMMENDATIONS FOR HOT OR COLD WEATHER CONCRETING. CURE SLABS USING AN APPROVED CURING COMPOUND OR WET CURE SYSTEM PER ACI RECOMMENDATIONS, WITH SPECIAL CONSIDERATION FOR SLAG AND FLY ASH CONCRETE AS APPROPRIATE

6. TESTING CYLINDERS SHALL BE CAST AND TESTED BY QUALIFIED PERSONNEL IN ACCORDANCE WITH ACI 318, SECTION 26.12

7. CONTRACTOR SHALL COMPLY WITH OSHA REGULATION 29 CFR PART 1926 SUBPART Z - TOXIC AND HAZARDOUS SUBSTANCES, SECTION 1926.1153, PUBLISHED SEPTEMBER 1, 2016. CONSTRUCTION ACTIVITIES SUCH AS CUTTING, GRINDING, DRILLING OR CRUSHING CONCRETE OR MASONRY CAN CREATE DUST WITH RESPIRABLE CRYSTALLINE SILICA PARTICLES. CONTRACTOR SHALL LIMIT WORKER EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA OR PROVIDE RESPIRATORY PROTECTION AS REQUIRED PER SECTION 1926.1153

8. BASE PLATE GROUT SHALL BE NON-SHRINK TYPE CONFORMING TO ASTM C-1107 WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 7000 PSI.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE DETAILED, INCLUDING HOOKS AND BENDS, AND PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318

2. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 OR A-706, GRADE 60

3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. BARS SHALL NOT BE RE-BENT

4. LAP ALL CONTINUOUS REINFORCEMENT AND CORNER BARS (#5 AND SMALLER) 40 BAR DIAMETERS OR 2'-0" MINIMUM, WHICHEVER IS GREATER. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B.

5. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED AND REVIEWED BY THE STRUCTURAL ENGINEER

6. REINFORCEMENT SHALL BE SECURELY TIED IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE OR GROUT. CONCRETE REINFORCEMENT SHALL BE SECURED IN CONFORMANCE WITH ACI-318 SECTION 26.6.2. MASONRY REINFORCEMENT SHALL BE SECURED IN CONFORMANCE WITH ACI-530.1 SECTION 3.4

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PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

STRUCTURAL ABBREVIATIONS AND NOTES

SHEET #
S1.01

POST INSTALLED ANCHORAGE

1. ADHESIVE ANCHORAGES. WHERE SPECIFIED ON THE DRAWINGS, SHALL CONFORM TO THE FOLLOWING:

A.	CONCRETE EPOXY ANCHORS	HILTI HIT-RE 500 V3 SIMPSON SET XP	ESR-3814 ESR-2508

2. MECHANICAL ANCHORAGES. WHERE SPECIFIED ON THE DRAWINGS, SHALL CONFORM TO THE FOLLOWING:

A.	CONCRETE EXPANSION ANCHORS.	HILTI KWIK BOLT TZ SIMPSON SB 2	ESR-1917 ESR-3837
B.	CONCRETE SCREWS	HILTI HUS-EZ SIMPSON TITEN HD	ESR-3027 ESR-2713

3. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE APPLICABLE ICC-ES REPORT. THE MANUFACTURER'S INSTRUCTIONS AND MINIMUM EMBEDMENT REQUIREMENTS.

4. SUBSTITUTIONS FOR ANCHOR SYSTEMS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND SHALL HAVE A VALID ICC-ES EVALUATION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES THAN THE PRODUCTS SPECIFIED AND DEMONSTRATING SUITABILITY FOR USE IN CRACKED CONCRETE AND FOR RESISTING SEISMIC LOADS.

5. DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION REPORT.

6. INJECTION OF ADHESIVE SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION REPORT IN ORDER TO PRODUCE AN AIR-VOID FREE INJECTION.

7. DO NOT USE ADHESIVE ANCHORS OUTSIDE OF THEIR RATED TEMPERATURE RANGE. CONTACT THE STRUCTURAL ENGINEER FOR DIRECTION IF THE TEMPERATURE OF THE BASE MATERIAL WILL BE LESS THAN 40 DEGREES F DURING INSTALLATION OR CURING.

8. ALL ANCHORS USED IN EXTERIOR APPLICATIONS, SUBJECTED TO MOISTURE, OR IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL, INCLUDING MATCHING NUTS AND WASHERS.

9. STEEL ANCHORING ELEMENTS SHALL BE THE SIZE AND GRADE SHOWN ON THE DRAWINGS AND MUST BE CLEAN, DRY AND FREE OF ANY OIL OR CONTAMINANTS.

10. ALL ANCHOR EMBED DEPTHS SPECIFIED ON THESE DRAWINGS ARE EFFECTIVE EMBEDMENT DEPTHS. ADDITIONAL ANCHOR LENGTH AND OR HOLE DEPTH SHALL BE PROVIDED AS REQUIRED BY THE ANCHOR MANUFACTURER AND ASSOCIATED CODE APPROVALS.

11. PROVIDE THE FOLLOWING MINIMUM EMBEDMENT DEPTHS FOR CONCRETE EPOXY ANCHORS, UNLESS OTHERWISE NOTED:

1/2"Ø ROD OR #3 BAR	4"
5/8"Ø ROD OR #4 BAR	5"
3/4"Ø ROD OR #5 BAR	7"
7/8"Ø ROD OR #6 BAR	9"

12. PROVIDE THE FOLLOWING MINIMUM EMBEDMENT DEPTHS FOR CONCRETE EXPANSION ANCHORS, UNLESS OTHERWISE NOTED:

1/2"Ø EXPANSION ANCHORS	3-1/4"
5/8"Ø EXPANSION ANCHORS	4"
3/4"Ø EXPANSION ANCHORS	4-3/4"

COLD FORMED STEEL

1. THE DESIGN AND INSTALLATION OF COLD FORMED STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND AISI STANDARDS.

2. COLD FORMED STEEL SHALL CONFORM TO ASTM A653SS OR A1003-H.
   - A. 16GA (54MIL) AND THICKER ELEMENTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
   - B. 18GA (43MIL) AND THINNER ELEMENTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI

3. STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE GALVANIZED PER THE PROJECT SPECIFICATIONS.

4. STEEL STUDS AND JOISTS SHALL BE "C" SHAPED WITH STIFFENED FLANGES, OF THE SIZE, GAUGE AND PROPERTIES SHOWN ON THE STRUCTURAL DRAWINGS, OR AS DESIGNATED WITH STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) NOMENCLATURE AS SPECIFIED IN ICC ER-3064P.

5. TRACK SHALL BE UNPUNCHED CHANNEL SHAPED, MATCHING STUD AND JOIST GAUGE, WITH MINIMUM FLANGE WIDTH OF 1 1/4" U.O.N. BRIDGING SHALL BE PROVIDED PER THE RECOMMENDATION OF THE MANUFACTURER, U.O.N.

6. WELDING, FABRICATION, ATTACHMENTS, ETC., SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS, OR, IF NOT SPECIFIED, WITH THE RECOMMENDATIONS AND SPECIFICATIONS OF THE MANUFACTURER.

7. WELDING OF COLD FORMED MEMBERS SHALL CONFORM TO AWS D1.3.

8. SCREW CONNECTIONS SHALL BE MADE USING SELF DRILLING / SELF TAPPING SCREWS CONFORMING TO ASTM C1513 AND ASTM A510. USE SCREW SIZE AS SPECIFIED ON THE STRUCTURAL DRAWINGS. SCREWS FASTENING GYPSUM SHEATHING TO COLD FORMED STUDS OR JOISTS SHALL CONFORM TO ASTM C954.

9. MINIMUM AND DESIGN THICKNESSES FOR COLD FORMED MEMBERS SHALL CONFORM TO ICC ESR-3064P.

10. ALL STUDS AND STUD GROUPS SHALL BE LATERALLY SUPPORTED TO PREVENT WEAK AXIS BUCKLING BY CONNECTING EACH FLANGE TO GYPSUM WALLBOARD PER ASTM C1280.

11. MINIMUM OF TWO STUDS SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS.

12. SEE ARCHITECTURAL DRAWINGS FOR SIZING AND DETAILING OF INTERIOR, NON-BEARING PARTITION WALLS.

WOOD

1. LUMBER AND MANUFACTURED WOOD PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND NDS SPECIFICATIONS.

2. ALL FRAMING LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT AND GRADED AND MARKED IN CONFORMANCE WITH WCLB STANDARD GRADING AND DRESSING RULES FOR WEST COAST LUMBER NO. 17, LATEST EDITION.

3. LUMBER SHALL BE HEM-FIR WITH GRADES AS FOLLOWS, UNLESS OTHERWISE NOTED:

A.	JOISTS: UP TO 4 INCH NOMINAL THICKNESS.	NO. 2
B.	BEAMS AND STRINGERS.	NO. 1
C.	POST AND TIMBERS	NO. 2
D.	PLATES, LEDGERS AND MISCELLANEOUS LIGHT FRAMING.	NO. 2
E.	STUDS	NO. 2

WOOD FRAMING

1. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC.

2. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

3. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF INTERIOR NONBEARING PARTITION WALLS.

4. DO NOT NOTCH ANY STRUCTURAL WOOD MEMBERS. SEE TYPICAL DETAILS FOR ALLOWABLE HOLE LOCATIONS AND SIZES FOR MECHANICAL AND ELECTRICAL UTILITY PASSAGES.

5. ATTACH STUDS AND POSTS TO TOP AND BOTTOM PLATES AND SUPPORTS WITH TWO 16d END NAILS OR FOUR 10d TOENAILS, TYP.

WALL FRAMING

1. INSTALL SOLID BLOCKING FOR ALL WOOD POSTS THROUGH FLOOR SPACES TO SUPPORTS BELOW.

2. INSTALL SHEATHING, GYPSUM WALL BOARD OR BOTH ON EACH SIDE OF ALL BEARING WALLS TO BRACE STUDS AGAINST BUCKLING.

3. WHERE MULTIPLE 2X STUDS ARE USED TO CREATE BUILT-UP POSTS OR BLOCKING, EACH ADDED PLY SHALL BE SISTERED TO THE PREVIOUS PLY WITH FACE NAILS. SISTERING NAILS SHALL BE 10d AT 12" OC. SISTERING NAILS SHALL BE STAGGERED IN ALL INSTANCES.

4. POSTS IN WALLS MAY BEAR ON THE SILL PLATE, U.O.N.

5. TOENAIL STUDS AND POSTS TO TOP AND BOTTOM PLATES AND SUPPORTS WITH TWO 16d END NAILS OR FOUR 10d TOENAILS.

DECK FRAMING

1. AT BEARING SUPPORTS BEAR JOISTS AND RAFTERS 2" MINIMUM ON BEAMS, U.O.N. BEAR BEAMS FULL LENGTH AND WIDTH ON SUPPORTING POSTS, U.O.N.

2. ATTACH TIMBER JOISTS TO FLUSH BEAMS WITH SIMPSON "HU" SERIES JOIST HANGERS, U.O.N.

3. INSTALL SOLID BLOCKING AT ALL BEARING POINTS.

4. TOENAIL JOISTS TO SUPPORTS WITH TWO 10d NAILS EACH END.

5. TOENAIL BLOCKING TO SUPPORTS WITH 10d @ 12" OC.

6. NAIL ALL BUILT-UP BEAMS/JOISTS TOGETHER WITH 10d @ 12" OC STAGGERED.

NAILING

1. MINIMUM NAILING SHALL CONFORM TO IBC TABLE 2304.10.1 OR ICC-ES REPORT NO. ESR-1539. WHERE NAILING OCCURS IN TWO OR MORE ROWS, THE ON-CENTER SPACING INDICATED ON THE DRAWINGS SHALL BE FOR EACH ROW.

2. ALL NAILS SHALL BE COMMON WIRE NAILS, U.O.N. PROVIDE MINIMUM NAIL DIAMETERS AND LENGTHS PER THE SCHEDULE BELOW:

	NAIL SIZE	DIAMETER X LENGTH
A. FRAMING NAILS	10d	0.148" X 3"
	16d	0.162" X 3-1/2"

3. MACHINE APPLIED NAILING IS SUBJECT TO A SATISFACTORY DEMONSTRATION AND THE APPROVAL OF THE BUILDING INSPECTOR, ARCHITECT, AND ENGINEER. NAIL HEADS SHALL NOT PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER. EDGE DISTANCES SHALL BE MAINTAINED. SHINERS SHALL BE REMOVED AND REPLACED. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.

4. SPLITTING OF WOOD MEMBERS BY DRIVING FASTENERS IS NOT ACCEPTABLE. IF SPLITTING OCCURS, OR MAY OCCUR AS WOOD DRIES IN PLACE, PREDRILL ALL HOLES AS REQUIRED TO APPROXIMATELY 60 PERCENT OF THE FASTENER DIAMETER PRIOR TO INSTALLING.

WOOD CONNECTORS

1. WOOD CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE AS SPECIFIED IN THEIR CATALOG NO. C-C-2019. ALTERNATE CONNECTORS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.

2. ALL CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. INSTALL THE NUMBER, SIZE AND TYPE OF FASTENERS AS SPECIFIED BY THE MANUFACTURER.

3. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF BOLTS SHALL CONFORM TO NDS SECTION 12.1.3 AND INSTALLATION OF LAG SCREWS SHALL CONFORM TO NDS SECTION 12.1.4.

4. ALL SHIMS SHALL BE SEASONED AND DRIED, AND BE THE SAME GRADE (MINIMUM) AS THE MEMBERS CONNECTED.

WOOD PROTECTION

1. ALL WOOD PLATES AND BLOCKING IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD U-1 TO THE REQUIREMENTS OF USE CATEGORY 2 (UC2).

2. ALL FRAMING WHICH WILL BE EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD U-1 TO THE REQUIREMENTS OF USE CATEGORY 3 (UC3).

3. FIELD TREAT ALL CUTS, END AND HOLES IN PRESSURE TREATED LUMBER WITH COPPER NAPHTHENATE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

4. ALL STEEL COMPONENTS, HARDWARE OR FASTENERS FOR WOOD FRAMING MEMBERS EXPOSED TO THE EXTERIOR, MOISTURE OR IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123/A153. LIGHT GAGE CONNECTORS SHALL BE GALVANIZED PER ASTM A653, TYPE G185 MINIMUM (SUCH AS SIMPSON ZMAX STEEL OR EQUAL) OR TYPE 304 OR 316 STAINLESS STEEL. CONNECTORS FOR PRESERVATIVE TREATED WOOD USING ONLY SBX/DOT ZINC BORATE NEED NOT BE GALVANIZED.

5. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS AND HOT DIPPED GALVANIZED FASTENERS PER ASTM A153 SHALL BE USED WITH GALVANIZED CONNECTORS.

6. PROVIDE FLASHING, SEALANTS AND FINISHES PER THE ARCHITECTURAL DRAWINGS TO PROTECT ALL EXTERIOR WOOD SURFACES FROM MOISTURE.

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PROJECT # 210223
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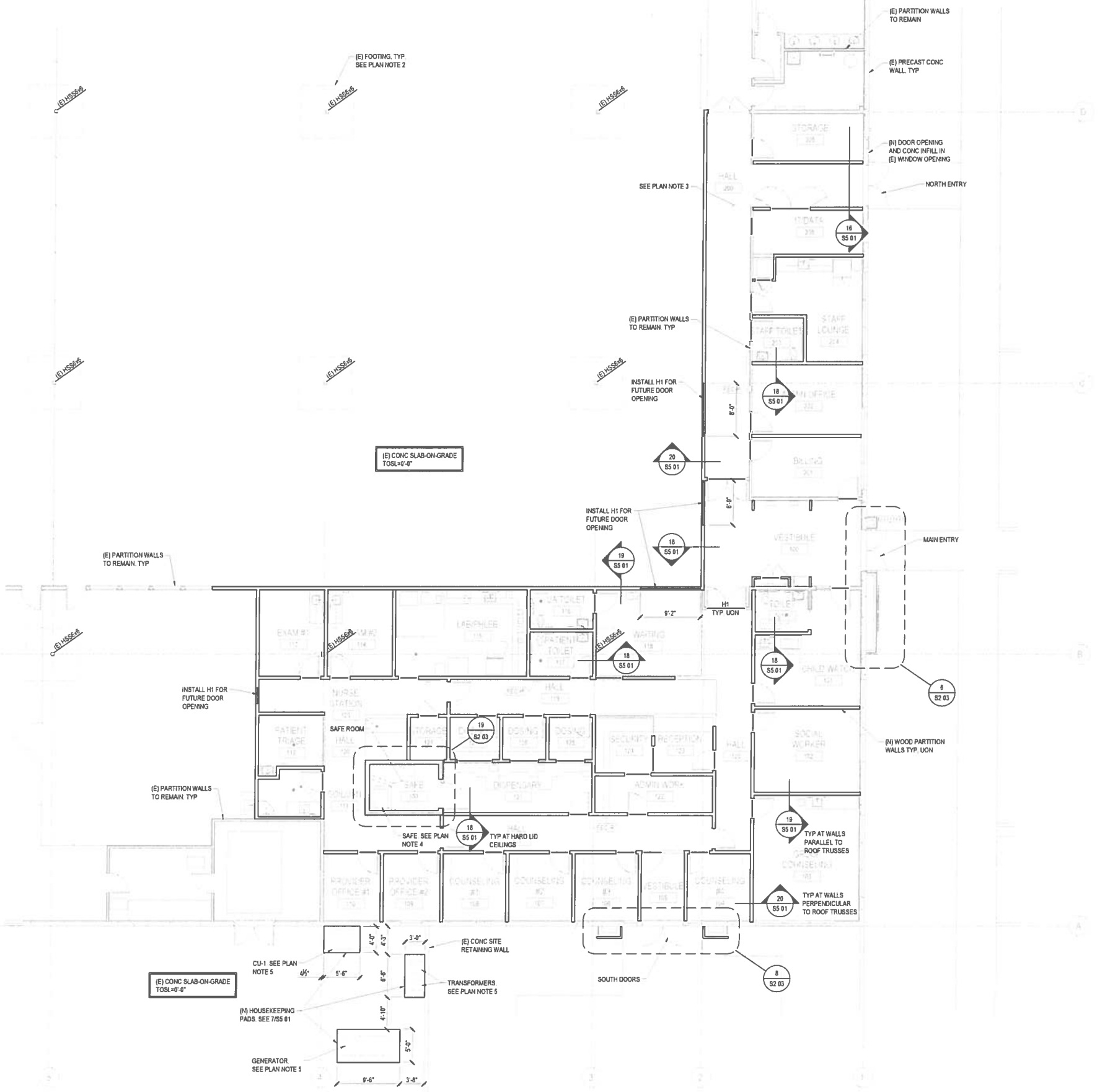
ISSUE DATE JUNE 16, 2021

REVISION SCHEDULE		

AHJ APPROVAL STAMP

STRUCTURAL NOTES

SHEET #
S1.02



1 FIRST FLOOR FRAMING PLAN
1/8"=1'-0"

SCALE 1/8"=1'-0"

PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS
2. EXISTING FOOTING SIZES ARE UNKNOWN. ESTIMATED SIZES ARE SHOWN FOR REFERENCE ONLY.
3. DEMO EXISTING SLAB-ON-GRADE AS REQUIRED FOR PLUMBING WORK. INSTALL NEW SLAB-ON-GRADE PER 5/SS 01
4. ANCHOR SAFE TO EXISTING SLAB-ON-GRADE W/ (4) ½"Ø HUS-EZ x 3 ½".
5. ANCHOR CU-1 TRANSFORMERS AND GENERATOR TO NEW HOUSEKEEPING PADS W/ (4) ½"Ø HUS-EZ CRC x 3½".

LEGEND

- SPAN DIRECTION OF FRAMING MEMBERS
- WALL ABOVE
- (E) COLUMN

BEAM / HEADER SCHEDULE

MARK	TYPE
H1	(2) 2x4 W/ (1) (N) OR (E) KING STUD EA SIDE

H = HEADER, SEE DETAIL 5/SS 01

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6330 31ST AVE NE
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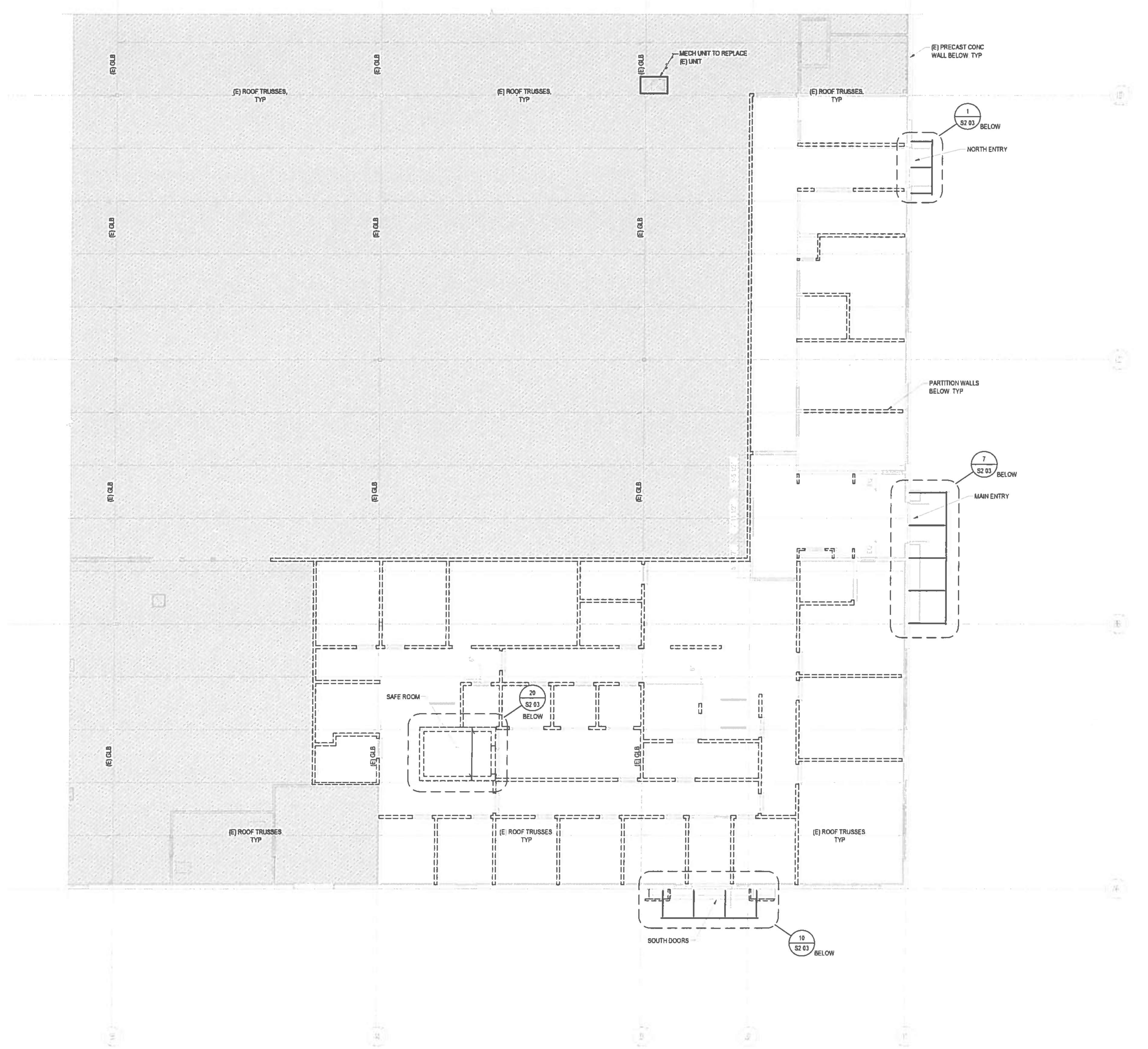
PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

FIRST FLOOR FRAMING PLAN

SHEET #
S2.01



1 ROOF FRAMING PLAN
1/8"=1'-0"

PLAN NOTES

1. PROVIDE SUPPORTS FOR MECHANICAL DUCTS AND PIPING PER SHEET S5.03

LEGEND

- SPAN DIRECTION OF FRAMING MEMBERS
- WALL BELOW
- COLUMN BELOW

0 5' 10' 20' 30'
SCALE 1/8"=1'-0"

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ROOF FRAMING PLAN

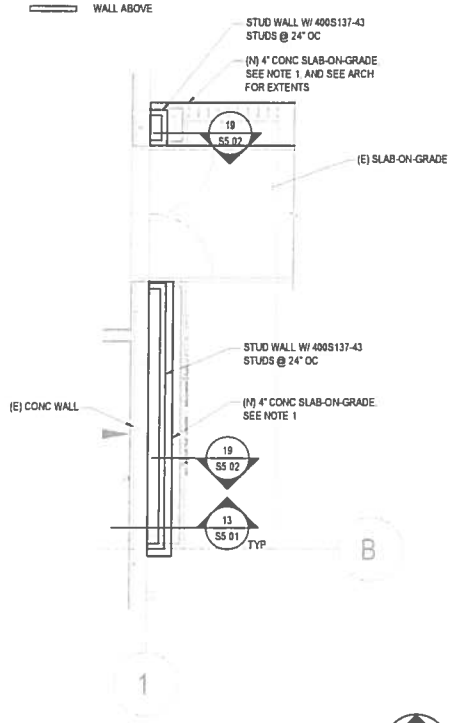
SHEET #
S2.02

PLAN NOTES

1. SLAB-ON-GRADE SHALL BE 4" THICK W/ 6x6 W1.4xW1.4 WWM AT CENTER

LEGEND

WALL ABOVE



6 ENLARGED FIRST FLOOR FRAMING PLAN - MAIN ENTRY
1/4"=1'-0"

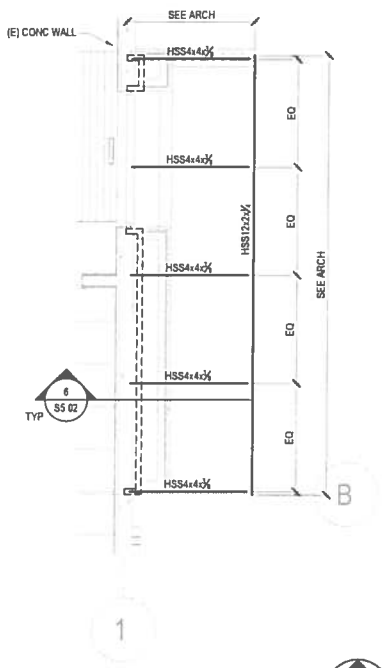
ROOF PLAN NOTES

1. TOP OF STEEL ELEVATION = SEE ARCH

LEGEND

SPAN DIRECTION OF FRAMING MEMBERS

WALL BELOW



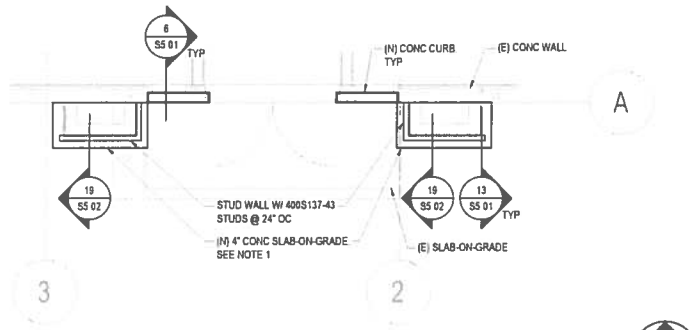
7 ENLARGED ROOF FRAMING PLAN - MAIN ENTRY
1/4"=1'-0"

PLAN NOTES

1. SLAB-ON-GRADE SHALL BE 4" THICK W/ 6x6 W1.4xW1.4 WWM AT CENTER

LEGEND

WALL ABOVE



8 ENLARGED FIRST FLOOR PLAN - SOUTH DOORS
1/4"=1'-0"

ROOF PLAN NOTES

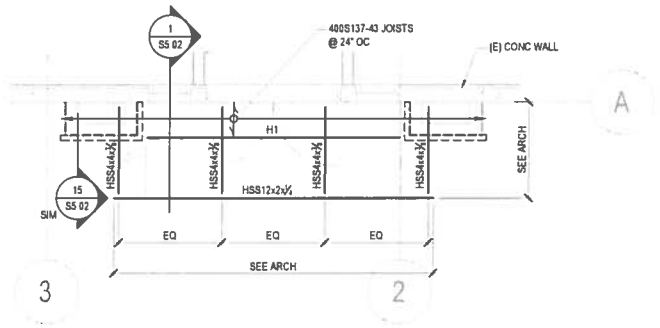
1. TOP OF STEEL ELEVATION = SEE ARCH

LEGEND

SPAN DIRECTION OF FRAMING MEMBERS

WALL BELOW

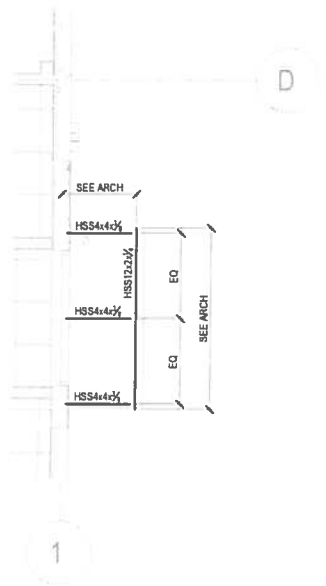
Hx HEADER PER SCHEDULE 9/S5 02



10 ENLARGED ROOF FRAMING PLAN - SOUTH DOORS
1/4"=1'-0"

ROOF PLAN NOTES

1. TOP OF STEEL ELEVATION = SEE ARCH



1 ENLARGED ROOF FRAMING PLAN - NORTH ENTRY
1/4"=1'-0"

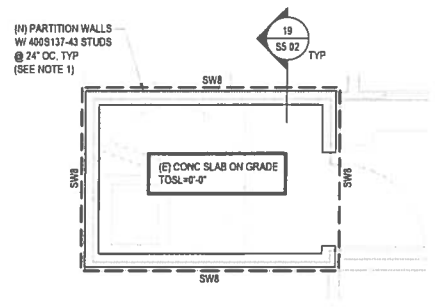
FLOOR PLAN NOTES

1. PROVIDE SECURITY MESH PER ARCH ON OUTSIDE FACE OF WALL STUDS. SEE ARCH

LEGEND

SWx SHEAR WALL PER SCHEDULE 16/S5 02

WALL ABOVE



19 ENLARGED FIRST FLOOR PLAN - SAFE ROOM
1/4"=1'-0"

CEILING PLAN NOTES

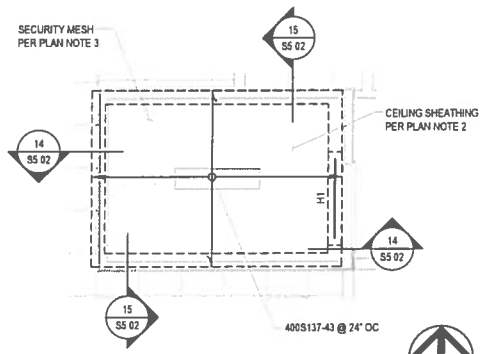
1. TOP OF STEEL ELEVATION = SEE ARCH.
2. CEILING SHEATHING SHALL BE ½" T&G PLYWOOD (PANEL SPAN RATING 32/16) SCREW SHEATHING W/ #8 SCREWS @ 6" OC (EDGE) AND 12" OC (FIELD).
3. PROVIDE SECURITY MESH AT TOP OF CEILING JOISTS. SEE ARCH.

LEGEND

SPAN DIRECTION OF FRAMING MEMBERS

WALL BELOW

Hx HEADER PER SCHEDULE 9/S5 02



20 ENLARGED CEILING FRAMING PLAN - SAFE ROOM
1/4"=1'-0"

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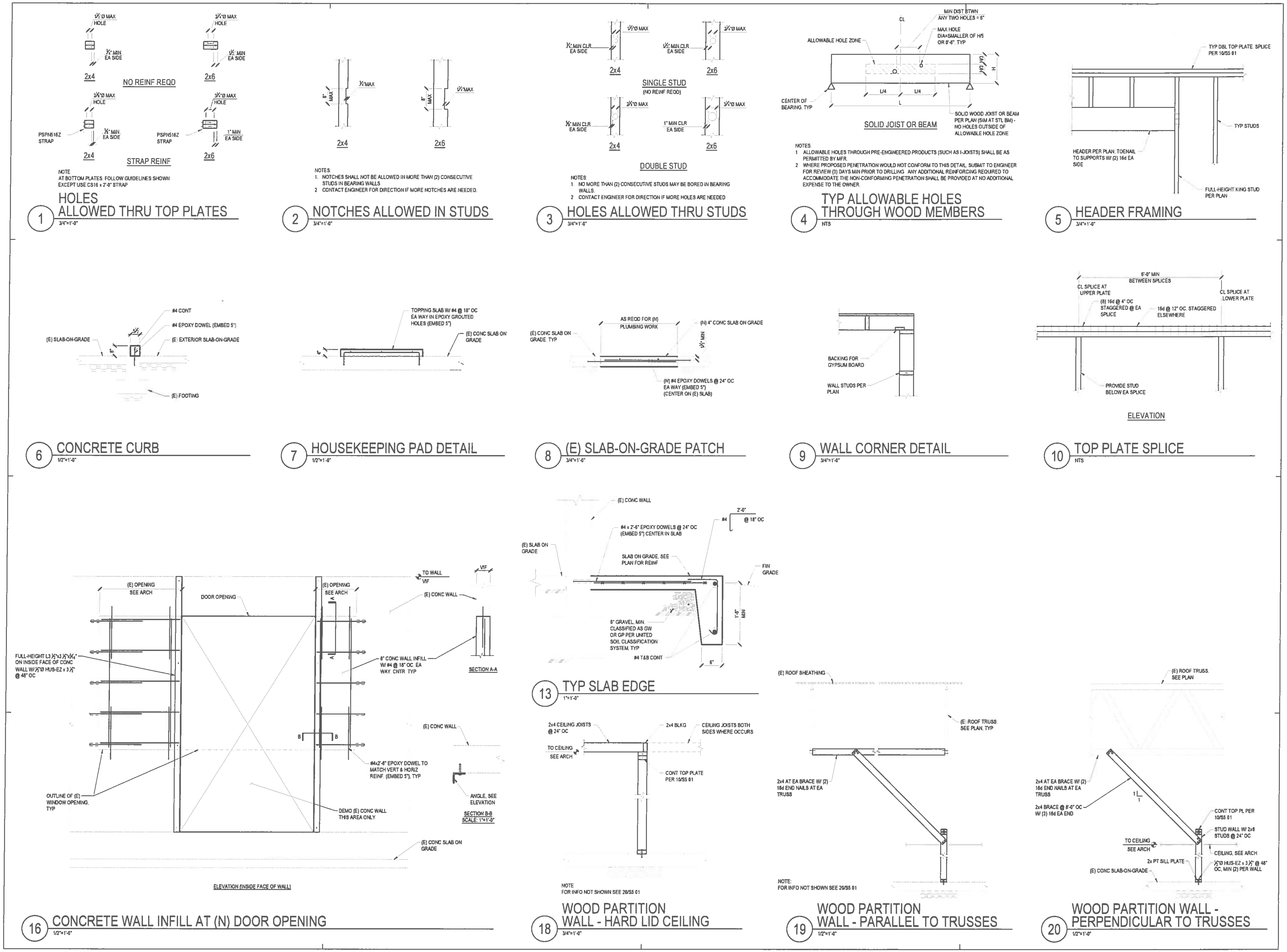
ENLARGED PLANS

SHEET #
S2.03


NO REINF REQD
STRAP REINF
PSPN516Z STRAP
NOTE
AT BOTTOM PLATES FOLLOW GUIDELINES SHOWN EXCEPT USE CS16 x 2'-0" STRAP
1 HOLES ALLOWED THRU TOP PLATES
3/4"=1'-0"
NOTES:
1. NOTCHES SHALL NOT BE ALLOWED IN MORE THAN (2) CONSECUTIVE STUDS IN BEARING WALLS
2. CONTACT ENGINEER FOR DIRECTION IF MORE NOTCHES ARE NEEDED.
2 NOTCHES ALLOWED IN STUDS
3/4"=1'-0"
SINGLE STUD
(NO REINF REQD)
DOUBLE STUD
NOTES
1. NO MORE THAN (2) CONSECUTIVE STUDS MAY BE BORED IN BEARING WALLS
2. CONTACT ENGINEER FOR DIRECTION IF MORE HOLES ARE NEEDED
3 HOLES ALLOWED THRU STUDS
3/4"=1'-0"
ALLOWABLE HOLE ZONE
MIN DIST BTWN ANY TWO HOLES = 6"
MAX HOLE DIA=SMALLER OF H/5 OR 8-6". TYP
CENTER OF BEARING, TYP
SOLID WOOD JOIST OR BEAM PER PLAN (SIM AT STL BM) - NO HOLES OUTSIDE OF ALLOWABLE HOLE ZONE
SOLID JOIST OR BEAM
NOTES
1. ALLOWABLE HOLES THROUGH PRE-ENGINEERED PRODUCTS (SUCH AS I-JOISTS) SHALL BE AS PERMITTED BY MFR.
2. WHERE PROPOSED PENETRATION WOULD NOT CONFORM TO THIS DETAIL, SUBMIT TO ENGINEER FOR REVIEW (3) DAYS MIN PRIOR TO DRILLING. ANY ADDITIONAL REINFORCING REQUIRED TO ACCOMMODATE THE NON-CONFORMING PENETRATION SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
4 TYP ALLOWABLE HOLES THROUGH WOOD MEMBERS
NTS
TYP DBL TOP PLATE SPLICE PER 10/S5.01
TYP STUDS
HEADER PER PLAN. TOENAIL TO SUPPORTS W/ (2) 16d EA SIDE
FULL-HEIGHT KING STUD PER PLAN
5 HEADER FRAMING
3/4"=1'-0"
#4 CONT
#4 EPOXY DOWEL (EMBED 5")
(E) EXTERIOR SLAB-ON-GRADE
(E) SLAB-ON-GRADE
(E) FOOTING
6 CONCRETE CURB
1/2"=1'-0"
TOPPING SLAB W/ #4 @ 18" OC EA WAY IN EPOXY GROUTED HOLES (EMBED 5")
(E) CONC SLAB ON GRADE
7 HOUSEKEEPING PAD DETAIL
1/2"=1'-0"
AS REQD FOR (N) PLUMBING WORK
(N) 4" CONC SLAB ON GRADE
(E) CONC SLAB ON GRADE, TYP
(N) #4 EPOXY DOWELS @ 24" OC EA WAY (EMBED 5") (CENTER ON (E) SLAB)
8 (E) SLAB-ON-GRADE PATCH
3/4"=1'-0"
BACKING FOR GYPSUM BOARD
WALL STUDS PER PLAN
9 WALL CORNER DETAIL
3/4"=1'-0"
6'-0" MIN BETWEEN SPLICES
CL SPLICE AT UPPER PLATE
(8) 16d @ 4" OC STAGGERED @ EA SPLICE
16d @ 12" OC, STAGGERED ELSEWHERE
CL SPLICE AT LOWER PLATE
PROVIDE STUD BELOW EA SPLICE
ELEVATION
10 TOP PLATE SPLICE
NTS
(E) CONC WALL
#4 x 2'-6" EPOXY DOWELS @ 24" OC (EMBED 5") CENTER IN SLAB
(E) SLAB ON GRADE
SLAB ON GRADE, SEE PLAN FOR REINF
6" GRAVEL, MIN. CLASSIFIED AS GW OR GP PER UNITED SOIL CLASSIFICATION SYSTEM, TYP
#4 T&B CONT
FIN GRADE
#4 @ 18" OC
13 TYP SLAB EDGE
1"=1'-0"
(E) OPENING SEE ARCH
DOOR OPENING
FULL-HEIGHT L3 1/2"x3 1/2"x5/16" ON INSIDE FACE OF CONC WALL W/ 1/2"Ø HUS-EZ x 3 1/2" @ 48" OC
8" CONC WALL INFILL W/ #4 @ 18" OC EA WAY, CNTR TYP
#4x2'-8" EPOXY DOWEL TO MATCH VERT & HORIZ REINF. (EMBED 5"), TYP
OUTLINE OF (E) WINDOW OPENING, TYP
DEMO (E) CONC WALL THIS AREA ONLY
(E) CONC SLAB ON GRADE
TO WALL V/F
(E) CONC WALL
SECTION A-A
ANGLE, SEE ELEVATION
SECTION B-B
SCALE: 1"=1'-0"
ELEVATION (INSIDE FACE OF WALL)
16 CONCRETE WALL INFILL AT (N) DOOR OPENING
1/2"=1'-0"
2x4 CEILING JOISTS @ 24" OC
2x4 BLKG
CEILING JOISTS BOTH SIDES WHERE OCCURS
TO CEILING SEE ARCH
CONT TOP PLATE PER 10/S5.01
NOTE:
FOR INFO NOT SHOWN SEE 20/S5.01
18 WOOD PARTITION WALL - HARD LID CEILING
3/4"=1'-0"
(E) ROOF SHEATHING
(E) ROOF TRUSS SEE PLAN, TYP
2x4 AT EA BRACE W/ (2) 16d END NAILS AT EA TRUSS
NOTE:
FOR INFO NOT SHOWN SEE 20/S5.01
19 WOOD PARTITION WALL - PARALLEL TO TRUSSES
1/2"=1'-0"
(E) ROOF TRUSS, SEE PLAN
2x4 AT EA BRACE W/ (2) 16d END NAILS AT EA TRUSS
2x4 BRACE @ 8'-0" OC W/ (3) 16d EA END
CONT TOP PL PER 10/S5.01
STUD WALL W/ 2x6 STUDS @ 24" OC
TO CEILING SEE ARCH
CEILING, SEE ARCH
2x PT SILL PLATE
1/2"Ø HUS-EZ x 3 1/2" @ 48" OC, MIN (2) PER WALL
(E) CONC SLAB-ON-GRADE
20 WOOD PARTITION WALL - PERPENDICULAR TO TRUSSES
1/2"=1'-0"

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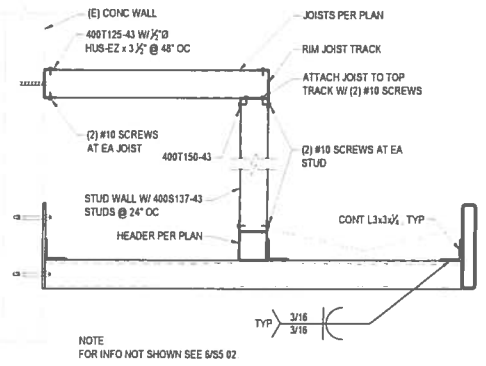
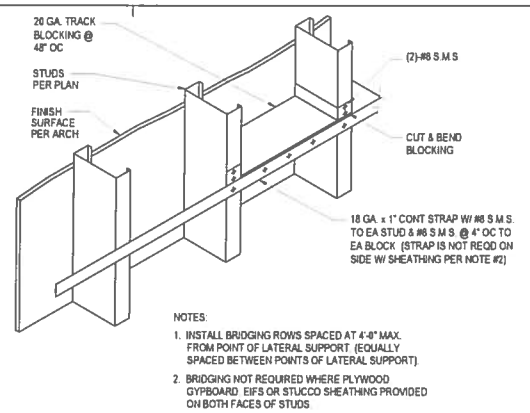
SECTIONS AND DETAILS

SHEET #

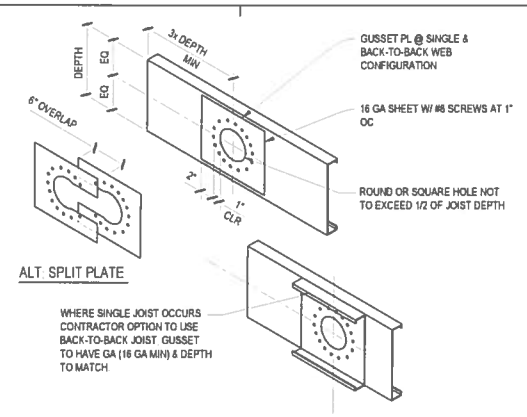
S5.01



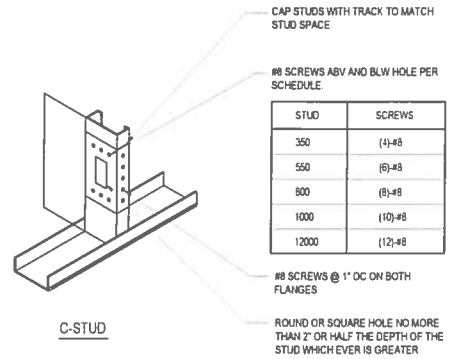
1 CANOPY SECTION AT SOUTH DOORS
1"=1'-0"



2 STUD LATERAL BLOCKING
NTS

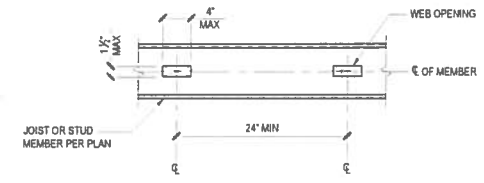


3 LARGE JOIST WEB OPENING
NTS

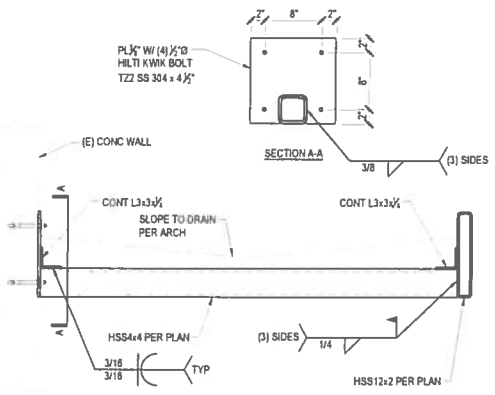


STUD	SCREWS
350	(4)-#8
550	(6)-#8
800	(8)-#8
1000	(10)-#8
12000	(12)-#8

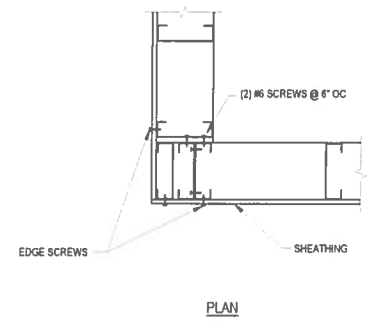
4 LARGE STUD OPENINGS
NTS



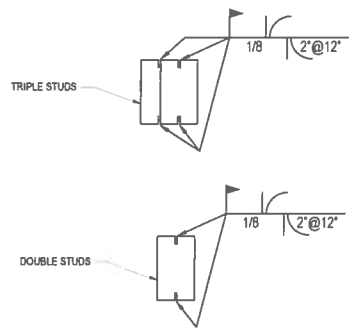
5 JOIST/STUD WEB OPENINGS
NTS



6 CANOPY SECTION
1"=1'-0"

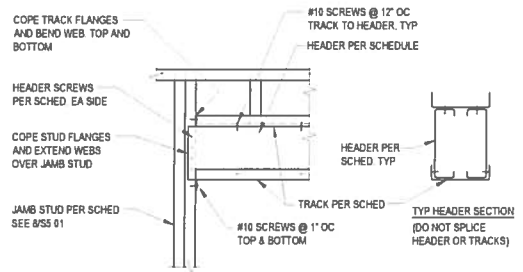


7 SHEAR WALL AT INTERSECTION
NTS

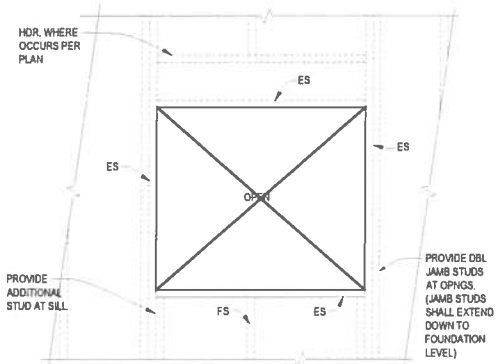


8 BUILT-UP STUD POST DETAIL
NTS

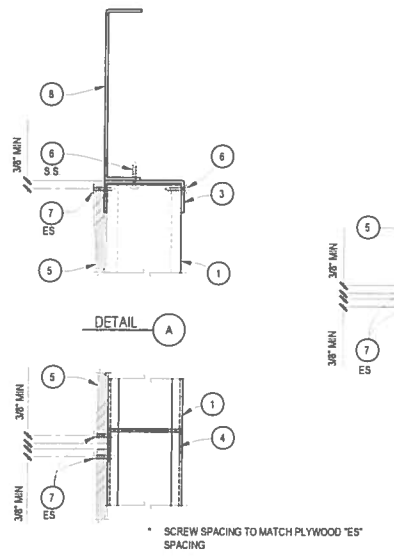
HEADER SCHEDULE				
MARK	JAMB STUD	TRACK	HEADER	HEADER SCREWS
H1	(1) 400S137-43	400T125-43 T&B	(2) 400S137-43	(2) #10

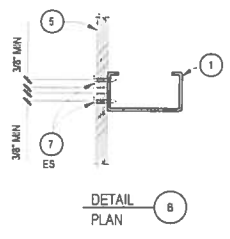


9 TYP HEADER CONNECTION
NTS



10 OPENING IN SHEAR WALL
NTS





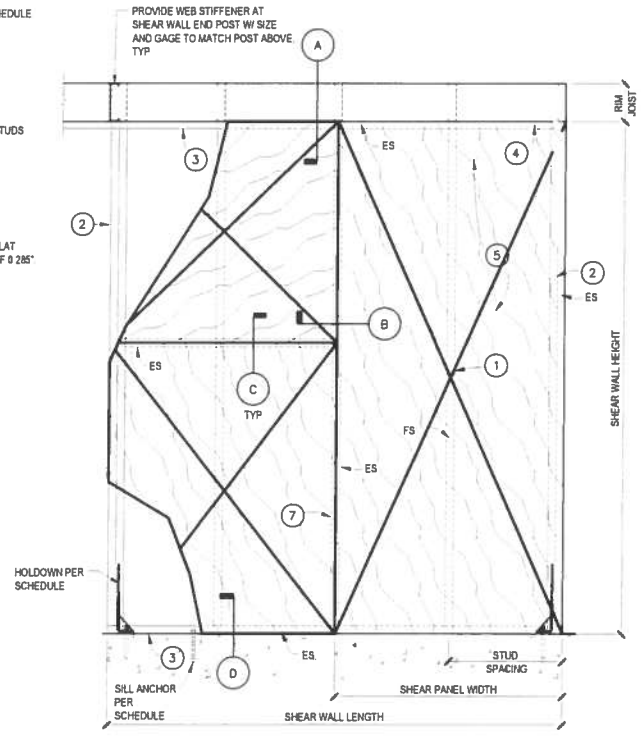
SHEAR WALL LEGEND:

1. VERTICAL STEEL STUD: STUD SIZE, GAUGE, AND SPACING PER WALL SCHEDULE
2. PROVIDE MIN. DOUBLE STUDS AT SHEAR WALL ENDS
3. BOTTOM AND TOP TRACK.
4. HORIZONTAL BLOCKING: PROVIDE TRACK TO MATCH WIDTH & GAGE OF STUDS AT ALL HORIZONTAL PANEL EDGES.
5. GYPSUM WALL BOARD PER SHEAR WALL SCHEDULE.
6. FRAMING SCREWS SHALL BE NO. 8 BY 5/8" WAFER HEAD SELF DRILLING CONTRACTOR OPTION TO STAGGER WITH SPACING PER SCHEDULE
7. PLYWOOD SCREWS SHALL BE APPROVED & SHALL BE A MINIMUM NO. 8 FLAT HEAD SELF-DRILLING TAPPING SCREWS W/ A MINIMUM HEAD DIAMETER OF 0.285"
8. RIM JOIST TRACK

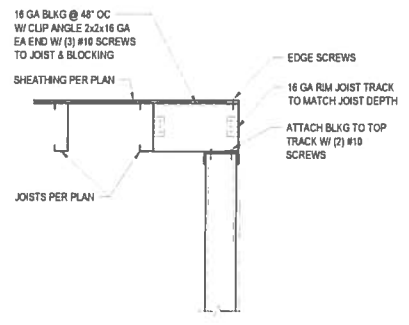
SHEAR WALL SCHEDULE (GYPSUM WALL BOARD ON METAL STUDS)						
MARK	THICKNESS	SCREW SIZE A	"ES" EDGES	"FS" FIELD	SILL ANCHORS	SILL SCREWING #10 SDS
SW8	1/2"	#6	8"	12"	1/2"x3½" HUS-EZ @ 48" OC	4" OC
SW4	1/2"	#6	4"	12"	1/2"x3½" HUS-EZ @ 36" OC	3" OC

SHEAR WALL SCHEDULE NOTES

1. WALL STUDS AND TRACK SHALL BE A MINIMUN 20 GAUGE MATERIAL.

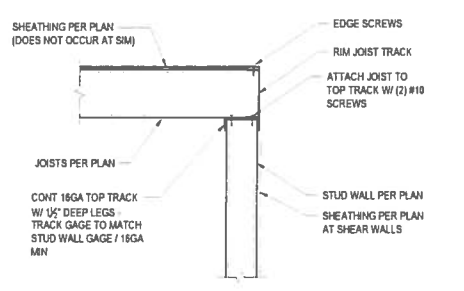


16 SHEAR WALL ELEVATIONS AND SCHEDULE
NTS

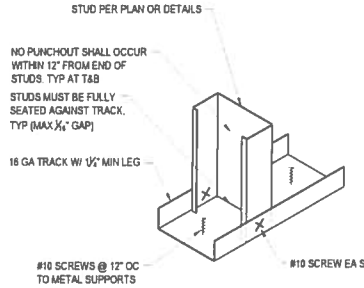


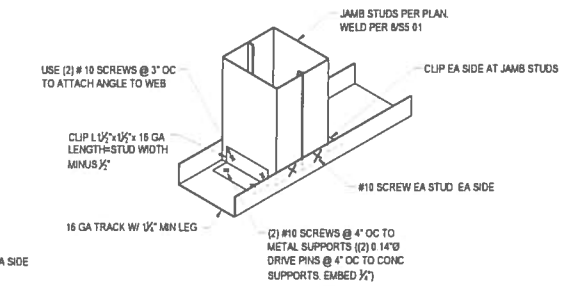
NOTE FOR INFO NOT SHOWN SEE 15 / SS 02

14 JOISTS PREPENDICULAR TO WALL
3/4"=1'-0"



15 JOISTS PARALLEL TO WALL
3/4"=1'-0"





19 STUD TO BOTTOM TRACK
NTS

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6/11/2021

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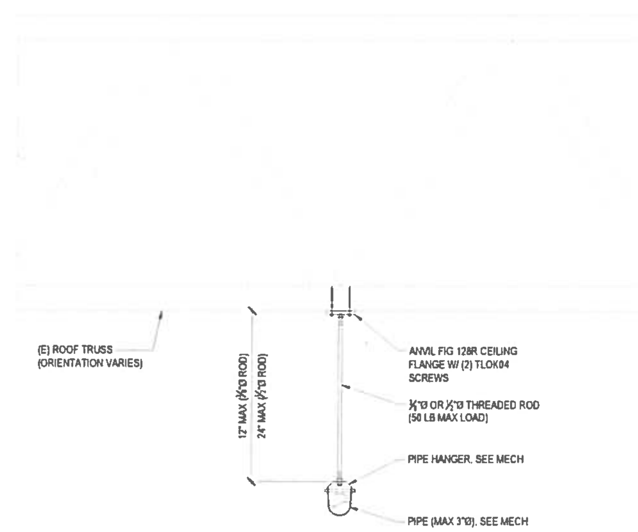
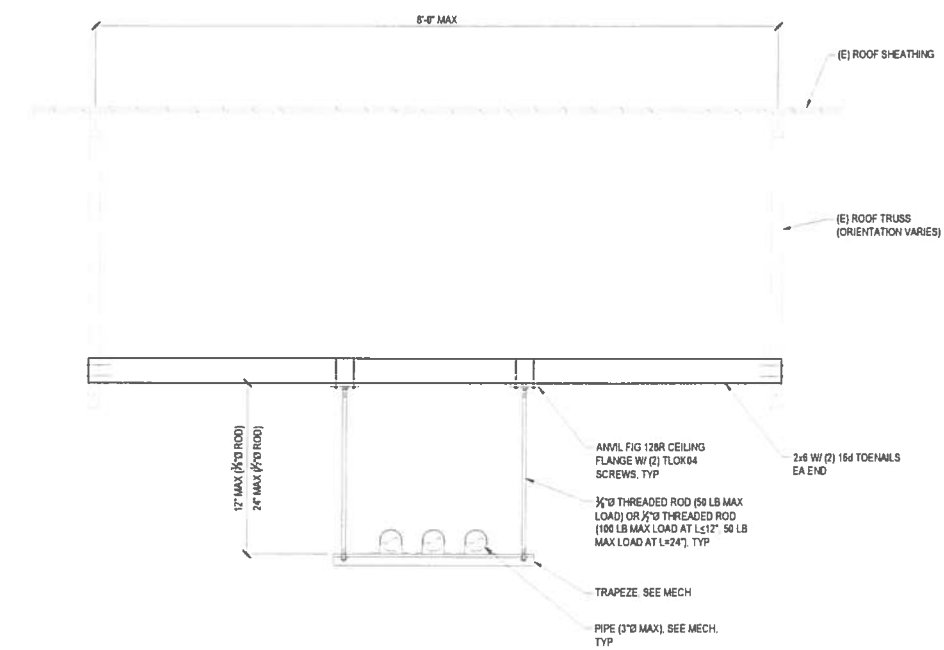
SECTIONS AND DETAILS

SHEET #
S5.02



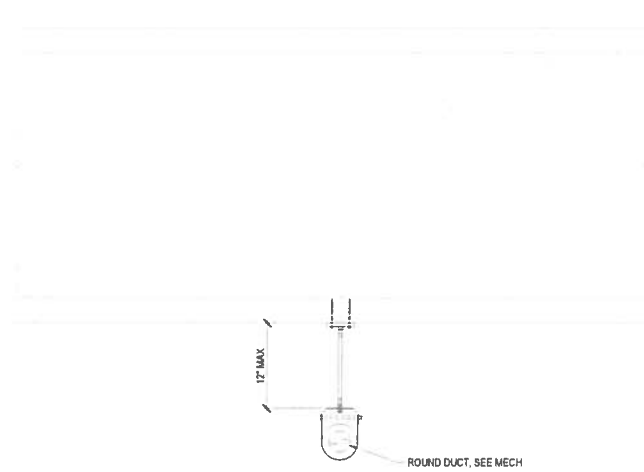
NOTES:
1. PROVIDE 24" CLEAR BETWEEN ADJACENT PIPES/STRUCTURE
2. PROVIDE SEISMIC BRACING IF DETAIL CONDITIONS ARE NOT MET

7 SINGLE PIPE SUPPORT DETAIL
1"=1'-0"



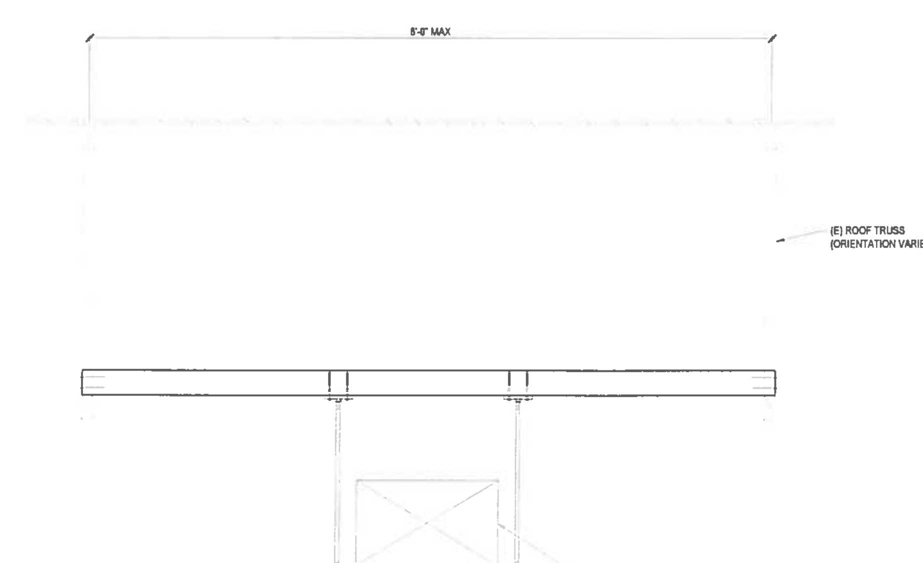
NOTES:
1. PROVIDE 24" CLEAR BETWEEN ADJACENT PIPES/STRUCTURE
2. PROVIDE SEISMIC BRACING IF DETAIL CONDITIONS ARE NOT MET

9 TRAPEZE PIPE SUPPORT DETAIL
1"=1'-0"



NOTES:
1. FOR INFO NOT SHOWN SEE 7/S5.03.
2. PROVIDE SEISMIC BRACING IF DETAIL CONDITIONS ARE NOT MET

17 SINGLE DUCT SUPPORT DETAIL
1"=1'-0"



NOTES:
1. FOR INFO NOT SHOWN SEE 9/S5.03
2. PROVIDE SEISMIC BRACING IF DETAIL CONDITIONS ARE NOT MET

19 TRAPEZE DUCT SUPPORT DETAIL
1"=1'-0"

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PROJECT #	210223
BID SET	
ISSUE DATE	JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

PIPE SUPPORT SECTIONS AND DETAILS

SHEET #
S5.03

DATE/ TIME PRINTED:

GENERAL LEGEND

SYMBOL	DESCRIPTION
A / B (circle)	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
A / B (circle with arrow)	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN
	SECTION CUT LINE INDICATOR
1	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
P1-1	PLUMBING FIXTURE REFERENCE (REFER TO SCHEDULE)
AHU-1	EQUIPMENT IDENTIFICATION (REFER TO SCHEDULES)
1 (cloud)	REVISION CLOUD AND REVISION NUMBER
XX	BINARY (YES/NO) SENSING SWITCH (PIPE OR DUCT MOUNTED)
XX	BINARY (YES/NO) SENSING SWITCH (SURFACE MOUNTED)
XX	ANALOG SENSING DEVICE (PIPE OR DUCT MOUNTED)
XX	ANALOG SENSING DEVICE (SURFACE MOUNTED)
X	ANALOG SENSING DEVICE (SURFACE MOUNTED) (APPROPRIATE FOR MEASURED FLUID) SUBSCRIPT LETTER (X) INDICATES A - ALARM PRESSURE SENSOR D - DIFFERENTIAL PRESSURE F - FLOW RATE H - HUMIDITY L - LOW LIMIT P - PRESSURE (STATIC) T - TEMPERATURE V - VELOCITY & VOLUME FLOW RATE

ABBREVIATIONS

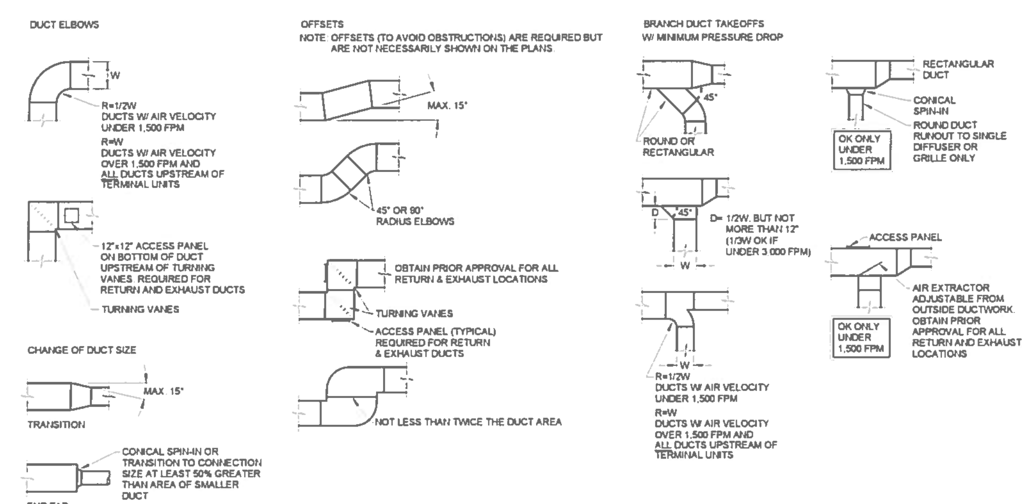
ABBR	DESCRIPTION	ABBR	DESCRIPTION
ABV	ABOVE	L	LENGTH
AD	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LBS	POUNDS
AL	ACOUSTIC LINED	LF	LINEAR FOOT/FEET
AP	ACCESS PANEL	LVG	LEAVING
APD	AIR PRESSURE DROP	LWG	LOW WALL GRILLE
ARCH	ARCHITECT/ARCHITECTURAL	LWR	LOW WALL REGISTER
ARV	AUTOMATIC RELIEF VALVE or ACID RESTISTANT VENT	LWT	LEAVING WATER TEMPERATURE
ARW	ACID RESTISTANT WASTE	MAX	MAXIMUM
		MBH	1000 BRITISH THERMAL UNITS PER HOUR
BDD	BACKDRAFT DAMPER	MCC	MOTOR CONTROL CENTER
BFP	BACKFLOW PREVENTER	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MFR	MANUFACTURER
BG	BELOW GROUND	MIN	MINIMUM
BJ	BETWEEN JOISTS	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNIT	MTD	MOUNTED
BTUH	BRITISH THERMAL UNITS PER HOUR	MTG	MOUNTING
C	CENTIGRADE	N/A	NOT APPLICABLE
CC	COOLING COIL	N/C	NORMALLY CLOSED
CD	CEILING DIFFUSER	N/O	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
CG	CEILING GRILLE	NIC	NOT IN CONTRACT
CI	CAST IRON	NTS	NOT TO SCALE
CLG	CEILING		
CO	CLEANOUT	OA	OUTSIDE AIR
CONC	CONCRETE	OBD	OPPOSED BLADE DAMPER
CONN	CONNECT or CONNECTION	O/C	ON CENTER
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CONT	CONTINUATION	OPNG	OPENING
CR	CONDENSATE RETURN		
DB	DECIBLE or DRY BULB	PCV	PRESSURE CONTROL VALVE
DDC	DIRECT DIGITAL CONTROL	PD	PRESSURE DROP
DIA	DIAMETER	PH or Ø	PHASE
DIM	DIMENSION	PLCS	PLACES
DN	DOWN	POC	POINT OF CONNECTION
DPR	DAMPER	POUA	POINT OF USE ALARM
DWG	DRAWING	PRV	PRESSURE REDUCING VALVE
		PSI	POUNDS PER SQUARE INCH
E-100	EXHAUST AIR NUMBER INDICATES CFM QUANTITY	PSIG	POUNDS PER SQUARE INCH GAGE
EA	EACH	R-100	RETURN AIR NUMBER INDICATES CFM QUANTITY
EAT	ENTERING AIR TEMPERATURE		
EF	EXHAUST FAN	RA	RETURN AIR
EG	EXHAUST GRILLE	RAG	RETURN AIR GRILLE
ELEC	ELECTRIC or ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM		
ESP	EXTERNAL STATIC PRESSURE		
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST		
EXST or (E)	EXISTING	S-100	SUPPLY AIR NUMBER INDICATES CFM QUANTITY
F	FAHRENHEIT	SA	SUPPLY AIR
FA	FACE AREA	SF	SUPPLY FAN
FCO	FLOOR CLEANOUT	SHT	SHEET
FCU	FAN COIL UNIT	SIM	SIMILAR
FD	FLOOR DRAIN	SP	STATIC PRESSURE
FDPR	FIRE DAMPER	SQ	SQUARE
FFD	FUNNEL FLOOR DRAIN	SQ FT	SQUARE FOOT/FEET
FF	FINAL FILTER	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FPM	FEET PER MINUTE	THK	THICK
FPS	FEET PER SECOND	TP	TRAP PRIMER or TEST PLUG
FT	FOOT/FEET	TYP	TYPICAL
FV	FACE VELOCITY	TU	TERMINAL UNIT
GA	GAGE or GAUGE	UBC	UNIFORM BUILDING CODE
GAL	GALLON	UFC	UNIFORM FIRE CODE
GALV	GALVANIZED	UMC	UNIFORM MECHANICAL CODE
GPH	GALLONS PER HOUR	UPC	UNIFORM PLUMBING CODE
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
GRD	GRILLE, REGISTER, DIFFUSER	UH	UNIT HEATER
H	HEIGHT	VA	VALVE
HD	HEAD	VAC	VACUUM
HP	HORSEPOWER	VAV	VARIABLE AIR VOLUME
HTG	HEATING	VD	VOLUME DAMPER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VEL	VELOCITY
HWG	HIGH WALL GRILLE	VFD	VARIABLE FREQUENCY DRIVE
HWR	HIGH WALL REGISTER	VTR	VENT THRU ROOF
HZ	HERTZ	W	WIDE
ID	INSIDE DIAMETER	W/	WITH
IE	INVERT ELEVATION	W/O	WITHOUT
IN	INCH or INCHES	WB	WET BULB
INSUL	INSULATION	WCO	WALL CLEANOUT
INV	INVERT	WG	WATER GAGE
		WGE	WASTE GAS EVACUATION
KW	KILOWATT	WPD	WATER PRESSURE DROP
KWH	KILOWATT HOUR	WT	WEIGHT

AIR DISTRIBUTION LEGEND

SYMBOL	ABBR	DESCRIPTION
		LIGHT LINEWORK INDICATES EXISTING DUCT OR EQUIPMENT
		INDICATES DUCT OR EQUIPMENT TO BE REMOVED
18x12		DUCT SIZE IN INCHES FIRST SIZE LISTED IS SIDE SHOWN
		ACOUSTIC LINED DUCT
R	R	DUCT OFFSET (UP) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)
D	D	DUCT OFFSET (DN) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)
18"Ø		ROUND DUCT IN INCHES
18x12"Ø		OVAL DUCT IN INCHES
18x10 / 18x12		CHANGE OF DUCT SIZE
18x10 / 18x12		CHANGE OF DUCT SIZE (TRIANGLE NOT ALWAYS SHOWN)
		RECTANGULAR SUPPLY DUCT ELBOW TURNED UP
		RECTANGULAR SUPPLY DUCT ELBOW TURNED DOWN OR AWAY
		RECTANGULAR RETURN/EXHAUST DUCT ELBOW TURNED UP
		RECTANGULAR RETURN/EXHAUST DUCT ELBOW TURNED DOWN OR AWAY
		SMALL RECTANGULAR DUCT ELBOW TURNED DOWN OR AWAY
		ROUND DUCT ELBOW TURNED UP
		ROUND DUCT ELBOW TURNED DOWN OR AWAY
		END OF DUCT WITH CAP (UNLESS INDICATED OTHERWISE)
	FLEX	FLEXIBLE DUCT
	AD	DUCT ACCESS DOOR
		RECTANGULAR ELBOW WITH TURNING VANES (SINGLE LINE)
		RADIUS ELBOW (SINGLE LINE)
		BRANCH DUCT TAKE-OFF (SINGLE LINE)
	VD	VOLUME DAMPER
		TWO-POSITION PARALLEL-BLADE DAMPER W/ ACTUATOR
	FDPR	FIRE DAMPER
	SDPR	SMOKE DAMPER
	FSD	FIRE/SMOKE DAMPER W/ ACTUATOR
	MD	MODULATING OPPOSED BLADE DAMPER W/ ACTUATOR
	BDD	BACKDRAFT DAMPER
SD	DSD	DUCT SMOKE DETECTOR
7.5 KW-460-3Ø		EQUIPMENT-MOUNTED ELECTRIC HEATING COIL. IF NOT INDICATED ON SCHEDULES, FIRST NUMBER INDICATES COIL HEATING CAPACITY (KILO-WATTS), SECOND NUMBER INDICATES SUPPLY VOLTAGE (IN VOLTS), THIRD NUMBER INDICATES PHASE(S).
4.5 KW-460-3Ø		TERMINAL OR DUCT MOUNTED ELECTRIC HEATING COIL. IF NOT INDICATED ON SCHEDULES, FIRST NUMBER INDICATES COIL HEATING CAPACITY (KILO-WATTS), SECOND NUMBER INDICATES SUPPLY VOLTAGE (IN VOLTS), THIRD NUMBER INDICATES PHASE(S).
		HYDRONIC HEATING OR COOLING COIL. REFER TO DRAWING NOTES AND/OR SCHEDULE FOR CAPACITY
		AIR FILTER
		SOUND ATTENUATOR
		INDICATES SUPPLY AIR FLOW DIRECTION
		INDICATES RETURN or EXHAUST AIR FLOW DIRECTION
		CEILING SUPPLY DIFFUSER. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ADDITIONAL INFORMATION.
		LINEAR SLOT DIFFUSER. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ADDITIONAL INFORMATION
		CEILING GRILLE (RETURN, EXHAUST OR TRANSFER) REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ADDITIONAL INFORMATION.
		GRILLE, REGISTER OR OPEN DUCT (SUPPLY SHOWN)

DUCT FITTING REQUIREMENTS

THE FOLLOWING DUCT FITTINGS ARE CONSIDERED ACCEPTABLE. THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR OTHER FITTINGS PRIOR TO FABRICATION. ONLY FITTINGS WITH EQUAL OR LOWER PRESSURE DROP WILL BE CONSIDERED.



DRAWING INDEX

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS AND LABOR NECESSARY TO CONSTRUCT COMPLETE AND OPERATIONAL SYSTEMS.
2. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH AND INCORPORATING ALL SPECIFICATIONS SUBMITTED WITH PACKAGE.
3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND CORRECT ANY DISCREPANCIES BETWEEN EXISTING WORK SHOWN ON DRAWINGS AND ACTUAL CONDITIONS ON SITE, AS REQUIRED TO MEET ALL CODES AND REGULATIONS.
4. COORDINATION WITH ALL TRADES IS REQUIRED TO AVOID CONFLICTS AND DELAYS. NO ALLOWANCES WILL BE MADE FOR REWORK DUE TO POOR COORDINATION BETWEEN INVOLVED TRADES.
5. CONTRACTOR SHALL MAKE THE REQUIRED ARRANGEMENTS FOR TRANSPORTING ALL MECHANICAL EQUIPMENT INTO THE BUILDING AND TO ITS FINAL INSTALLATION LOCATION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING DIMENSIONS PRIOR TO ORDERING MATERIALS AND INSTALLING EQUIPMENT. THE DRAWINGS REPRESENT THE GENERAL ARRANGEMENT OF MECHANICAL AND ELECTRICAL SYSTEMS AND OTHER WORK. CONTRACTOR SHALL MAKE REASONABLE MODIFICATIONS TO LAYOUT AND COMPONENTS TO AVOID CONFLICTS WITH OTHER TRADES. SIGNIFICANT MODIFICATIONS TO LAYOUTS AND COMPONENTS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION. SUCH MODIFICATIONS SHALL NOT BE GROUNDS FOR ADDITIONAL COMPENSATION TO CONTRACTOR.
7. CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS WITH SUFFICIENT LEAD TIME TO PREVENT DELAYING THE COMPLETION OF THE PROJECT. DELAYS IN DELIVERIES WILL NOT BE CONSIDERED JUSTIFIABLE CAUSE FOR SUBMISSION OF SUBSTITUTE MATERIALS.
8. CONTRACTOR SHALL GIVE 24 HOUR NOTICE, IN WRITING, TO THE BUILDING ADMINISTRATOR (OR APPOINTED REPRESENTATIVE) AND RECEIVE WRITTEN APPROVAL FROM THE BUILDING ADMINISTRATOR PRIOR TO SHUT DOWN OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE EXACT LOCATION AND TIMING OF SYSTEM(S) SHUT DOWN POINTS WITH THE OWNER REPRESENTATIVE. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE DOWNTIME OR DISRUPTION OF ANY SYSTEMS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE AND/OR SMOKE RATING OF ALL PENETRATIONS. FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS. ALL FIRE RATED PENETRATIONS SHALL BE TEMPORARILY FIRE STOPPED AT THE END OF EACH WORK DAY AND PERMANENTLY FIRE STOPPED AT THE COMPLETION OF THE PROJECT.
10. COORDINATE ALL DIFFUSER/GRILLE INSTALLATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.
11. ALL NEW VOLUME DAMPERS INSTALLED SHALL BE FLAGGED WITH FLUORESCENT ORANGE SURVEYOR'S TAPE FOR IDENTIFICATION.
12. SIZES OF DUCT RUNOUTS, FLEXIBLE DUCT CONNECTIONS, AND SPIN-IN TAPS SHALL BE EQUAL TO DIFFUSER NECK SIZE. SEE PLANS.
13. ALL DUCTWORK SHALL BE SUPPORTED IN STRICT COMPLIANCE WITH SMACNA OR LOCALLY ACCEPTED CODE, WHICHEVER IS STRICTER.
14. ALL DUCTWORK SHALL BE FLANGED SHEET METAL UNLESS NOTED OTHERWISE. ALL DUCT SHALL BE CONSTRUCTED PER LATEST VERSION OF SMACNA DUCT CONSTRUCTION STANDARDS INCLUDING DUCT MIN THICKNESS.
15. INSULATION USED IN THIS PROJECT SHALL MEET CRITERIA PRESCRIBED BY LOCALLY ACCEPTED CODES.
16. ALL DUCT/PIPE DIMENSIONS INDICATE INSIDE NET FREE AREA. ALL MITERED RECTANGULAR ELBOWS SHALL HAVE TURNING VANES.
17. THERMOSTATS SHALL BE INSTALLED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
18. SEE PLANS FOR CONDENSATE DRAIN ROUTING. CONDENSATE DRAIN SHALL NOT BE ROUTED TO HARD SURFACES. ROUTE CONDENSATE DRAIN LINES TO SANITARY SEWERS, STORM DRAINS, DRYWELLS, OR GRASSY AREA AS INDICATED ON DRAWINGS, OR AS ALLOWED BY LOCAL AUTHORITY.
19. MAINTAIN ALL MANUFACTURERS' RECOMMENDED SERVICE CLEARANCES FOR ALL EQUIPMENT.
20. REFER TO ARCHITECTURAL SITE PLANS FOR LOCATION OF BUILDING.
21. ALL CONTROLS CONDUIT AND WIRING INSTALLED BY CONTROLS CONTRACTOR. ALL CONTROLS DEVICES TO BE SELECTED, INSTALLED, CONFIGURED AND TESTED BY THE CONTROLS CONTRACTOR TO ACHIEVE THE OPERATIONAL INTENT COMMUNICATED THROUGH THESE DRAWINGS. CONTROLS TO BE BY TRANE. CONTROLS CONTRACTOR TO DETAIL, INSTALL, AND COMMISSION THE CONTROLS.
22. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR STARTUP OF ALL EQUIPMENT INCLUDING PREPARING STARTUP FORMS FOR ALL EQUIPMENT. BALANCING AND REPORT BY NEBB CERTIFIED BALANCER. FULL FUNCTIONAL TESTING OF EQUIPMENT TO CONFIRM ALL COMPONENTS WORK AND THE SYSTEMS OPERATE AS INTENDED.
23. ALL EQUIPMENT SHALL BE INSTALLED, PIPED, AND WIRED PER MANUFACTURERS INSTRUCTIONS.
24. ALL CONTROLLED DEVICES SHALL BE CALIBRATED, TESTED, AND REPAIRED TO FUNCTION PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE DOCUMENTATION INDICATING TESTING METHODS AND RESULTS. PROVIDE PRELIMINARY WRITTEN DOCUMENTATION AS REQUIRED PRIOR TO APPLICATION FOR CERTIFICATE OF OCCUPANCY. COMPLETED REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.
25. PROVIDE ENERGY METERING AND ENERGY CONSUMPTION MANAGEMENT PER SECTION C409, INCLUDING THE FOLLOWING:
   1) C409.2 - ENERGY SOURCE METERING. COORDINATE HVAC EQUIPMENT ELECTRICAL ENERGY METERING WITH ELECTRICAL CONTRACTOR. PROVIDE NATURAL GAS METERING PER C409.2
   2) C409.4 - MEASUREMENT DEVICES, DATA ACQUISITION SYSTEM AND ENERGY DISPLAY TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION.

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6/15/21

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PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

AHJ APPROVAL STAMP

MECHANICAL COVER SHEET AND GENERAL INFORMATION

SHEET #
M0.01

SPECIFICATIONS

GENERAL REQUIREMENTS

SUMMARY

THE WORK COVERED BY THIS AND ALL OTHER MECHANICAL SECTIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, APPLIANCES AND MATERIALS AND PERFORMING ALL OPERATIONS REQUIRED FOR A COMPLETE INSTALLATION OF ALL HEATING AND VENTILATION SYSTEMS AS HEREINAFTER SPECIFIED, IN STRICT ACCORDANCE WITH THIS AND ALL SECTIONS OF THESE SPECIFICATIONS, DRAWINGS, TERMS AND CONDITIONS OF THE CONTRACT, ALL APPLICABLE CODES, ORDINANCES AND LAWS GOVERNING EACH SYSTEM UPON COMPLETION, THE SYSTEMS SHALL BE FULLY FUNCTIONAL, ADJUSTED, AND READY FOR USE
ALL WORK AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING
2015 INTERNATIONAL BUILDING CODE WITH STATEWIDE AMENDMENTS
ICC/ANSI A117 1-09, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES WITH STATEWIDE AMENDMENTS
2015 INTERNATIONAL MECHANICAL CODE WITH STATEWIDE AMENDMENTS
2015 INTERNATIONAL FIRE CODE WITH STATEWIDE AMENDMENTS
2015 UNIFORM PLUMBING CODE WITH STATEWIDE AMENDMENTS
2015 WASHINGTON STATE ENERGY CODE
2015 INTERNATIONAL EXISTING BUILDING CODE WITH STATEWIDE AMENDMENTS FOUND IN THE IBC
NATIONAL ELECTRICAL CODE (NFPA 70) WITH STATEWIDE AMENDMENTS
OTHER RELEVANT NATIONAL FIRE PROTECTION (NFPA) ASSOCIATION AND AMERICAN PETROLEUM INSTITUTE (API) INDUSTRY CODES
UNDERWRITERS' LABORATORIES
LOCAL UTILITY CODES
ALL APPLICABLE INDUSTRIAL SAFETY AND HEALTH LAWS AND REGULATIONS
ALL APPLICABLE ENERGY CODES
LOCAL PLUMBING CODES
LOCAL BUILDING, MECHANICAL AND FIRE CODES.
ALL GOVERNING RULES AND REGULATIONS BY LOCAL AND STATE AUTHORITIES
ALL CONTRACT DOCUMENTS PERTAINING TO THIS PROJECT ARE HEREBY MADE A PART OF THIS SPECIFICATION
THE CONTRACTOR IS RESPONSIBLE TO MAKE SURE OF A CLEAR UNDERSTANDING OF BOTH PLANS AND SPECIFICATIONS, PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER SHALL NOT BE HELD ACCOUNTABLE FOR LACK OF NOTIFICATION BY THE MECHANICAL AND/OR PLUMBING CONTRACTORS

EXISTING CONDITION INFORMATION

BEFORE SUBMITTING BID, THE CONTRACTOR SHALL EXAMINE SITE CONDITIONS TO DETERMINE ANY EFFECT ON EXECUTION OF WORK AND INCLUDE COSTS IN BID BY SUBMITTING A BID THE CONTRACTOR IS ACKNOWLEDGING THAT THEY HAVE SUFFICIENTLY UNDERSTOOD THE SCOPE OF CONSTRUCTION WORK REQUIRED AND HAVE INCLUDED IN BID WHETHER SPECIFIED OR NOT THE SUPPLY AND INSTALLATION OF ALL ITEMS REQUIRED BY GOOD PRACTICE TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS

PERMIT APPLICATION

OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BEFORE AND DURING CONSTRUCTION

SUBSTITUTION PROCEDURES

THE EQUIPMENT SPECIFIED ON THE DRAWINGS HAVE BEEN SELECTED AS THE BASIS OF DESIGN. THE CONTRACTOR MAY PROPOSE A SUBSTITUTION OF OTHER MATERIAL OR EQUIPMENT, WHICH IN HIS OPINION WILL ACCOMPLISH THE DESIGN FUNCTION AND IS EQUAL TO THAT SPECIFIED. ALL COSTS INCURRED BECAUSE OF THIS SUBSTITUTION SHALL BE BY THE CONTRACTOR. THE ENGINEER SHALL BE THE JUDGE OF THE QUALITY AND SUITABILITY OF THE PROPOSED SUBSTITUTION AND MAY REQUIRE THE CONTRACTOR TO FURNISH ANY MATERIAL OR PIECE OF EQUIPMENT AS SPECIFIED

PROJECT MANAGEMENT AND COORDINATION

- GENERAL. THE CONTRACTOR SHALL SCHEDULE HIS WORK IN SUCH A MANNER AS TO AVOID DELAYS IN OVERALL CONSTRUCTION AND PERMIT PROPER INSTALLATION OF ALL WORK BY THEMSELF AND OTHER CRAFTS
- DESIGN DRAWINGS. THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW THE FINAL ROUTING OF PIPING, DUCTWORK OR FINAL LOCATION OF EQUIPMENT. IF CONFLICTS ARISE WHICH CAUSE A CHANGE IN THE SPECIFIED PLANS OR DESIGN, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING THE CHANGES. ANY CHANGES NOT APPROVED BY THE ENGINEER SHALL BE THE RESPONSIBILITY OF OTHERS
-
- INTERFERENCES. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER CRAFTS TO MAKE CERTAIN LOCATIONS AND ARRANGEMENTS REQUIRED FOR INSTALLATION OF SYSTEMS ARE MADE AVAILABLE, AND BE RESPONSIBLE FOR ARRANGING PIPING, DUCTWORK, EQUIPMENT, ETC , SO AS NOT TO INTERFERE WITH STRUCTURAL MEMBERS, LIGHTS, AND OTHER ITEMS HAVING FIXED LOCATIONS NOT RELATED TO THE SYSTEMS. WHERE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS ARE REQUIRED FOR FIELD COORDINATION OF ALL TRADES, THE CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS
- VERIFICATION: PRIOR TO ORDERING ANY EQUIPMENT OR FIXTURES, VERIFY DIMENSIONS OF ALL SUCH EQUIPMENT, FIXTURES, ETC , TO MAKE CERTAIN IT FITS INTO THE STRUCTURAL AND ARCHITECTURAL FEATURES OF THE BUILDING, AVOIDS CONFLICT WITH EQUIPMENT OR FIXTURES OF OTHER CRAFTS AND FITS INTO THE SPACE PROVIDED FOR THE INSTALLATION.
- SLEEVES AND INSERTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES AND INSERTS REQUIRED FOR HIS WORK. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO HE INSTALLS SLEEVES AND INSERTS AS CONSTRUCTION PROCEEDS AND IN A MANNER TO AVOID DELAYS. IF THE CONTRACTOR FAILS TO INSTALL SLEEVES AND INSERTS AS CONSTRUCTION PROCEEDS, HE SHALL PAY ALL COSTS FOR CUTTING AND PATCHING TO MAKE THE PROPER INSTALLATION
- SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR ALL SIGNIFICANT MATERIALS, EQUIPMENT, AND FIXTURES TO THE A/E FOR REVIEW ALLOW REASONABLE TIME FOR REVIEW AND RETURN PRIOR TO ORDERING. PDF (ELECTRONIC) SUBMITTALS ARE ACCEPTABLE, IF PAPER COPIES ARE SUBMITTED ASSUME OWNER AND A/E WILL RETAIN A TOTAL OF THREE COPIES OF SUBMITTALS
- SAFETY MEASURES: PROVIDE A SAFE ENVIRONMENT TO PROTECT EMPLOYEES AND ALL OTHERS FROM INJURY. COMPLY WITH LOCAL, STATE AND FEDERAL SAFETY AND HEALTH REGULATIONS. FOR CONSTRUCTION

EXISTING BUILDINGS

DEMOLITION: PROVIDE MECHANICAL SYSTEM DEMOLITION IN AREAS OF EXISTING BUILDINGS TO ACCOMMODATE INSTALLATION OF NEW WORK. EXISTING PIPING, VALVES, AND DUCTWORK WHERE INDICATED ON THE DRAWING, MAY BE REUSED IN THEIR ORIGINAL LOCATION. DO NOT REUSE EXISTING PIPING, VALVES, OR DUCTWORK ONCE THEY ARE REMOVED, UNLESS WRITTEN PERMISSION IS OBTAINED FROM OWNER. REMOVE ALL UNUSED PIPING AND DUCTWORK LOCATED IN REMODEL AREAS OF EXISTING BUILDINGS.

CUTTING AND PATCHING: PROVIDE ALL CUTTING OF BUILDING CONSTRUCTION, AS REQUIRED FOR THIS WORK. KEEP CUTTING TO A MINIMUM, AND USE SAW CUTTING TO MAINTAIN NEAT EVEN OPENINGS UNLESS PATCHING IS INCLUDED UNDER OTHER DIVISIONS OF THIS SPECIFICATION, PROVIDE PATCHING AT ALL CUTTING LOCATIONS. ALL PATCHING SHALL CONFORM TO SPECIFICATIONS FOR THE NEW GENERAL CONSTRUCTION WORK. FINISH TO MATCH EXISTING

PRODUCT REQUIREMENTS

- THE MATERIAL AND EQUIPMENT SHALL BE NEW, BEST QUALITY AND AS SPECIFIED
- EQUIPMENT SHALL BE FURNISHED COMPLETE WITH ALL PARTS NECESSARY FOR PROPER OPERATION. MATERIAL AND EQUIPMENT SHALL BE CLEANED AND FREE FROM DENTS, SCRATCHES, AND CORROSION. EQUIPMENT SHALL PROVIDE QUIET OPERATION.

EXECUTION

- THE WORK SHALL BE PERFORMED BY PERSONS SKILLED IN THE PARTICULAR TRADE, AND INCLUDES ALL WORK NECESSARY TO PROPERLY COMPLETE THE INSTALLATION IN A MANNER THAT PRESENTS A NEAT AND FINISHED APPEARANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS RECOMMENDED BY THE EQUIPMENT MANUFACTURER REQUIRED BY CODES AND NECESSARY FOR THE PROTECTION OF PERSONNEL, SUCH AS SCREENS, GUARDS, RELIEF VALVES, VENTS, OVERFLOW, ETC , WHICH SHALL BE PROVIDED AND INSTALLED IN AN APPROVED MANNER
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT FOLLOWING ALL MANUFACTURER'S REQUIREMENTS. CONTACT ENGINEER IF CONFLICTS ARISE
- INSTALLATION, GENERAL. FOLLOW MANUFACTURER'S INSTRUCTIONS AND UTILIZE GOOD INDUSTRY PRACTICE WHEN INSTALLING ALL WORK. USE ONLY SKILLED TRADESPEOPLE WITH QUALIFIED SUPERVISION. ALL WORK SHALL BE LEFT NEAT AND CLEAN.
- CONCEALMENT. PIPING AND DUCTWORK SHALL BE CONCEALED WITHIN BUILDING CONSTRUCTION, UNLESS SPECIFICALLY INDICATED OTHERWISE. WHERE PIPING IS INDICATED TO BE EXPOSED TO VIEW IN FINISHED SPACES OR CABINETS, PROVIDE BURSHED STAINLESS STEEL ESCUTCHEONS WHERE THE PIPING PENETRATES THE WALL, FLOOR OR CEILING CONSTRUCTION
- WATER SEALING AT FLOORS. PROVIDE WATER TIGHT SEALING AT EACH FLOOR PENETRATION INCLUDING PIPING WITHIN WALL CAVITIES. PROVIDE WATER SLEEVES SEALED TO THE FLOOR CONSTRUCTION AND PROJECTING NOT LESS THAN 1 5" ABOVE FLOOR WHERE INSULATED PIPING PENETRATES THE FLOOR. THE INTENT IS TO MINIMIZE PASSAGE OF WATER DURING A SIGNIFICANT WATER LEAKAGE EVENT. SEALING IS REQUIRED FOR CONCRETE FLOORS, BUT NOT REQUIRED FOR OTHER FLOOR SYSTEMS WHERE THE CONSTRUCTION ITSELF, AT THE PIPE PENETRATION, ALLOWS SIGNIFICANT WATER SEEPAGE (PLANKED WOOD FLOOR FOR EXAMPLE.)
- COORDINATION WITH OTHER TRADES. COMPLETE DRAWINGS AND SPECIFICATIONS OF ALL TRADES WILL BE FURNISHED OR WILL BE AVAILABLE FOR INSPECTION IN THE CONSTRUCTION OFFICE AT THE JOBSITE. CAREFULLY CHECK THESE DRAWINGS AND SPECIFICATIONS BEFORE INSTALLING ANY WORK. IN ALL CASES, CONSIDER THE WORK OF ALL OTHER TRADES AND COORDINATE WORK WITH THAT OF THE SHEET METAL, PIPING PLUMBING,FIRE PROTECTION, ELECTRICAL, AND SITE-WORK SUBCONTRACTORS, SO THAT THE BEST ARRANGEMENT OF ALL EQUIPMENT, PIPING, CONDUIT, DUCTS, AND OTHER RELATED ITEMS CAN BE OBTAINED
- ELECTRICAL CLEARANCES. COORDINATE WITH ALL TRADES TO MAINTAIN ELECTRICAL SERVICE CLEARANCE (PER NATIONAL ELECTRICAL CODE) FOR MECHANICAL EQUIPMENT

QUALITY REQUIREMENTS

- ON COMPLETION OF THE WORK, FURNISH SATISFACTORY EVIDENCE THAT ALL WORK HAS BEEN INSTALLED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE CODES
- THE OWNER AND/OR GENERAL CONTRACTOR SHALL DECIDE WHETHER OR NOT THE FINISHED WORK IS SATISFACTORY AND IF ANY MATERIAL OR EQUIPMENT HAS NOT BEEN PROPERLY INSTALLED OR FINISHED. THE MECHANICAL AND/OR PLUMBING CONTRACTOR IS OBLIGATED TO REPAIR OR REPLACE THE MATERIAL OR EQUIPMENT IN A MANNER SATISFACTORY TO THE OWNER WITHOUT COST TO THE OWNER
- GUARANTEE. GUARANTEE MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS AFTER THE DATE OF SUBSTANTIAL COMPLETION. REFER TO ADDITIONAL REQUIREMENTS OUTLINED BY ARCHITECT AND OWNER

PROJECT CLOSE OUT DOCUMENTATION (C103 6)

1 THE FOLLOWING DOCUMENTS SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITH 180 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY
   - RECORD DOCUMENTS (C103 6 1)
   - MANUALS (C103 6 2)
   - COMPLIANCE DOCUMENTATION (C103 6 3)

2 TRAINING OF THE MAINTENANCE STAFF FOR EQUIPMENT INCLUDED IN THE MANUALS REQUIRED BY SECTION C103 6 2 SHALL INCLUDE AT A MINIMUM (C103 6 4)
   - REVIEW OF MANUALS AND PERMANENT CERTIFICATE
   - HANDS-ON DEMONSTRATION OF ALL NORMAL MAINTENANCE PROCEDURES, NORMAL OPERATING MODES, AND ALL EMERGENCY SHUTDOWN AND START-UP PROCEDURES.
   - TRAINING COMPLETION REPORT

COMMISSIONING

1 WILL BE COMPLETED BY COMMISSIONING AGENT-HIRED BY OWNER

BALANCING

BALANCING WILL BE COMPLETED BY BALANCER HIRED BY OWNER

BASIC MATERIALS AND METHODS (APPLIES TO ALL WORK)

GENERAL

WORK INCLUDED. THIS SECTION APPLIES TO ALL MECHANICAL WORK NORMALLY SPECIFIED UNDER DIVISIONS 21, 22 AND 23, AND REPRESENTS REQUIREMENTS IN ADDITION TO THE REQUIREMENTS STATED IN OTHER SECTIONS. THESE SPECIFICATIONS DO NOT COVER ALL ITEMS THAT WILL BE REQUIRED FOR COMPLETE AND WORKING SYSTEMS. WHERE MATERIALS OR EQUIPMENT NEEDED FOR THIS PROJECT ARE NOT COVERED IN THESE SPECIFICATIONS, PROVIDE THE MATERIALS AND EQUIPMENT OF A QUALITY EQUAL TO OR BETTER THAN THAT GENERALLY UTILIZED BY THE INDUSTRY FOR SIMILAR PROJECTS IN THE SAME GEOGRAPHIC AREA.

A. SUPPORT AND HANGERS

SUPPORT OF MECHANICAL SYSTEMS. EACH PIECE OF EQUIPMENT SHALL BE SUPPORTED (FROM ABOVE OR BELOW) IN NOT LESS THAN FOUR CORNERS FROM THE BUILDING STRUCTURE. PIPING AND DUCTWORK SHALL BE SUPPORTED AT INTERVALS SPECIFIED, WITH EACH SYSTEM SUPPORTED INDEPENDENTLY FROM THE BUILDING STRUCTURE.

SEISMIC BRACING. PROVIDE COMPLETE SEISMIC BRACING FOR ALL NEW PIPING, DUCTWORK, TERMINAL UNITS AND EQUIPMENT AS REQUIRED BY THE 2015 IBC WITH ALL LOCAL AMENDMENTS AND ASCE/SCI 7-10 (THE CURRENT CODE). BRACING MAY BE PER GUIDELINES ESTABLISHED BY RESTRAINT MANUFACTURERS SUCH AS MASON INDUSTRIES AND I. S A.T. PROVIDED THEY MEET THE CURRENT CODE. ALL BRACING SHALL BE DESIGNED AND MANUFACTURED BY MASON, I S A T, OR PRIOR-APPROVED ALTERNATE. MANUFACTURER SHALL FURNISH PROJECT-SPECIFIC DRAWINGS SHOWING THE CORRECT BRACE FOR EACH PROJECT-SPECIFIC LOCATION

CONNECTIONS TO THE BUILDING STRUCTURE. PROVIDE ALL NECESSARY CONNECTIONS TO THE BUILDING STRUCTURE FOR SEISMIC RESTRAINTS AND SUPPORTS. WHERE CONCRETE STRUCTURE IS PRESENT, REVIEW THE USE OF CONCRETE ANCHORS WITH THE ARCHITECT OWNER AND GENERAL CONTRACTOR, AND VERIFY THAT THERE ARE NO POST-TENSIONED SLABS OR OTHER CONDITIONS THAT NEED TO BE TAKEN INTO ACCOUNT IN SETTING OF ANCHORS. UTILIZE MCCULLOUGH "KWIK-BOLT", PHILLIPS SELF-DRILLING ANCHORS, GREGORY "BULLDOG," OMARK "DRILL ANCHORS" OR OTHER APPROVED ANCHOR TO ATTACH TO CONCRETE STRUCTURES. WHERE BUILDING STRUCTURE IS WOOD OR STEEL, OBTAIN ARCHITECT APPROVAL OF HARDWARE AND METHODS TO BE UTILIZED FOR ATTACHMENT TO THE STRUCTURE

ADDITIONAL FRAMING. PROVIDE STEEL FRAMING MEMBERS TO TRANSFER LOAD FROM SUPPORT POINTS AT HANGERS TO LOCATIONS WHERE CONNECTIONS CAN BE MADE TO THE BUILDING STRUCTURE. FRAMING MEMBERS SHALL BE 12-GAUGE MINIMUM, 1-3/8" X 1-5/8" MINIMUM CROSS-SECTION SIZE, UNISTRUT, POWERSTRUT, OR OTHER APPROVED. SELECT MEMBER SIZE AND TYPE, AS APPROPRIATE FOR LOAD PER MANUFACTURER GUIDELINES.

PIPE HANGERS. CLEVIS OR RING HANGERS WITH STEEL RODS. HANGERS FOR INSULATED PIPING SHALL BE SIZED FOR OUTSIDE INSULATION AND 6" SHIELDS SHALL BE PROVIDED AT ALL HANGERS TO PROTECT INSULATION. PIPE SUPPORT SPACING PER IMC. PROVIDE PLASTIC SEPARATION BETWEEN CLAMPS AND COPPER PIPE.

HANGER RODS. HOT ROLLED STEEL ROD. ASTM A 36, SIZE TO "CODE FOR PRESSURE PIPING", ANSI B 31 1, WITH SAFETY FACTOR OF 5. MINIMUM ROD SIZE; 1" PIPE AND SMALLER (240 POUNDS) = 1/4" ROD 1-1/4" TO 2" PIPE (TO 810 POUNDS) = 3/8" ROD. 2-1/2" TO 4" PIPE (TO 1,130 POUNDS) = 1/2" ROD. 5" TO 6" PIPE (TO 1,810 POUNDS) = 5/8" ROD

INSTALL HIGH DENSITY PRE-MOLDED PIPE INSULATION 180 DEGREES (HALF-SHELLS) ON BOTTOM HALF OF PIPE AT SUPPORTS FOR PIPING GREATER THAN 1" IN DIAMETER, 6" LONG FOR PIPING 6" IN SIZE OR SMALLER. FOR COLD PIPE SUPPORTS USE 3 0 PCF DENSITY POLYISOCYANURATE INSULATION. HOT PIPE SUPPORTS SHALL BE HIGH DENSITY POLYISOCYANURATE FOR FLUIDS UP TO 300 F, OR CALCIUM SILICATE. INSULATION AT SUPPORTS SHALL HAVE SAME THICKNESS AS ADJACENT INSULATION

EQUIPMENT AND PIPING IDENTIFICATION

1 NAMEPLATES. PROVIDE NAMEPLATE FOR EACH PIECE OF EQUIPMENT, INCLUDING EQUIPMENT NUMBER AND ANY SPECIAL INSTRUCTION FOR ITS USE; LAMINATED BLACK AND WHITE PLASTIC WITH LETTERING CUT THROUGH TO WHITE BACKGROUND. MINIMUM SIZE 3" X 1"

2 PIPE IDENTIFICATION: ALL PIPING IN SERVICEABLE LOCATIONS (INCLUDING ABOVE LAY-IN CEILINGS) SHALL BE IDENTIFIED WITH SEMI-RIGID PLASTIC OR ADHESIVE IDENTIFICATION MARKERS. MARKERS SHALL CONFORM TO ANSI A13 1, "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS". LOCATE MARKERS ADJACENT TO EACH VALVE, AT MINIMUM 30' CENTERS WITH AT LEAST ONE MARKER BETWEEN ANY TWO PARTITIONS. PROVIDE DIRECTION OF FLOW ARROWS AT MARKERS

MISCELLANEOUS MATERIALS AND ACCESSORIES

1 DIELECTRIC UNIONS. PROVIDE AT EACH PIPE CONNECTION BETWEEN DISSIMILAR METALS. 2 INCHES AND SMALLER, 250 PSIG AT 180 DEG. F. ANSI B16 39. OVER 2" USE FLANGE FITTINGS, ANSI B16 42 (IRON) OR ANSI B16 24 (BRONZE), WATTS 3000 SERIES, EPCO OR EQUIVALENT

2. FIRE SEALING AT RATED WALLS AND FLOORS. PROVIDE UL LISTED FIRE RATED PUTTY AT ALL PIPE PENETRATIONS OF RATED WALLS AND FLOORS. PUTTY SHALL BE INSTALLED STRICTLY PER MANUFACTURER INSTRUCTIONS WITH SLEEVES WHERE REQUIRED. OVERALL INSTALLATION SHALL MEET CODE REQUIREMENTS. PIPE INSULATION SHALL NOT BE CONTINUOUS THROUGH FIRE RATED WALLS OR FLOORS. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING RATING INFORMATION

3 FIRE STOP SYSTEMS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. TRAINING RECORDS/CERTIFICATIONS OF INSTALLERS MAY BE REQUIRED AT TIME OF INSPECTIONS. PENETRATIONS THROUGH RATED FIRE WALLS AND CEILINGS SHALL BE SEALED UPON COMPLETION OF WORK AND ALL PENETRATIONS SHALL BE LABELED. IFC 703 2 (2015 EDITION) AND NFPA 80. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING RATING INFORMATION

4 MOTORS. UNLESS OTHERWISE SPECIFIED, ALL ELECTRIC MOTORS FURNISHED SHALL CONFORM WITH THE REQUIREMENTS OF NEMA MG1 "MOTORS AND GENERATORS". PROVIDE MINIMUM MOTOR EFFICIENCIES AS REQUIRED BY THE ENERGY CODE.

5 INTERCONNECTING WIRING. PROVIDE ANY NECESSARY INTERCONNECTING WIRING BETWEEN INDIVIDUAL COMPONENTS AND ACCESSORIES FURNISHED WITH MECHANICAL EQUIPMENT PACKAGES (UNLESS THAT WIRING IS SPECIFICALLY CALLED FOR ON THE ELECTRICAL DRAWINGS). WIRING AND WIRING ACCESSORIES SHALL BE IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS (AND/OR THE SPECIFICATIONS ON THE ELECTRICAL DRAWINGS) AND LOCAL ELECTRICAL CODE. WIRING SHALL BE IN CONDUIT OR RACEWAY. WIRING SHALL BE PROVIDED AT THE EXPENSES OF THE SUBCONTRACTOR FURNISHING THE EQUIPMENT PACKAGE.

6 CONDENSATE DRAIN PIPING AND FITTINGS: SEAMLESS TYPE L COPPER WITH 95-5 SOLDER. INSULATE CONDENSATE DRAIN PIPING WITH 1/2" INCH THICK ARMSTRONG "ARMAFLEX" OR EQUAL.

7 ACOUSTIC LINING FOR RETURN AND EXHAUST DUCTS. FIBERGLASS, 1 5-INCH THICKNESS UNLESS OTHERWISE NOTED, WITH A BLACK PIGMENTED NEOPRENE COATED MAT SURFACE ON THE AIR-STREAM SIDE, 1-1/2 POUNDS PER CUBIC FOOT DENSITY. FIRE HAZARD CLASSIFICATION FHS 25/50 PER UL 723. ALL CUT EDGES SHALL BE COATED WITH CODE-APPROVED ADHESIVE TO PREVENT EROSION

8 FLEXIBLE DUCTS. ACCEPTABLE ONLY WHERE INDICATED ON THE DRAWINGS. EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 2 0-INCH THICK FIBER GLASS INSULATION (K = .25 AT 75 DEGREES F.) ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. UL 181 LISTED WITH FLAME-SPREAD RATING NOT OVER 25, SMOKE-DEVELOPED RATING NOT OVER 50. MINIMUM LENGTH 5', MAXIMUM LENGTH 8', MINIMUM OF 1 ELBOW. NOT GREATER THAN 2 ELBOWS. USE FLEXMASTER USA TYPE 8M. R-6 0.

9 FLEXIBLE CONNECTORS. PROVIDE FLEXIBLE CONNECTORS AT FANS AND EQUIPMENT THAT DO NOT HAVE INTERNAL VIBRATION ISOLATION. INDOOR: UL LISTED HYPALON COATED GLASS FABRIC OR NEOPRENE COATED NYLON FABRIC. FLAME RESISTANT TO 250 F. 24 OZ / SQ. YD. DURODYNE "NEOPRENE" OR ELGEN "HYPOLON"

10 DUCT ACCESS DOORS. PROVIDE IN SUFFICIENT QUANTITY, LOCATIONS, AND SIZES TO PROVIDE PROPER ACCESS TO DAMPERS AND EQUIPMENT THAT MAY REQUIRE SERVICE. VENTLOCK WITH PIANO HINGE AND/OR CAM LATCHES. SUPPLY DUCT ACCESS DOORS SHALL BE DOUBLE WALL, WITH 1" INSULATION

11 VOLUME DAMPERS. BALANCING DAMPERS SHALL BE PER SMACNA STANDARDS. HEAVY DUTY QUADRANTS WITH SETTING SCALE AND SECURE LOCKING THUMB NUTS

12 FIRE DAMPERS. 1-1/2 HOUR RATED, DYNAMIC. UL LISTED FIRE DAMPERS, EACH WITH FRAME AND SLEEVE, LISTED FOR VERTICAL AND/OR HORIZONTAL INSTALLATION, WITH FUSIBLE LINK RATED TO CLOSE AT 165 F. OVERSIZE DAMPERS AS REQUIRED TO RESULT IN NOT LESS THAN 85 PERCENT FREE AREA FOR LOW VELOCITY DUCTS AND 100 PERCENT FREE AREA FOR MEDIUM OR HIGH VELOCITY DUCTS. INSTALL PER MANUFACTURER INSTRUCTIONS

13 COMBINATION FIRE SMOKE DAMPERS. DAMPERS SHALL BE UL 555 1-1/2 HOUR AND UL 555S CLASS I LEAKAGE CLASSIFIED. DAMPERS SHALL HAVE A NORMALLY-CLOSED 120 VOLT DAMPER MOTOR AND REUSABLE RESETTABLE LINK CLOSURE DEVICE RATED TO CLOSE AT 165 F. SMOKE DETECTOR SHALL BE SIMPLEX WITH AUX. CONTACTS RATED FOR 120 VAC, AND SHALL INCLUDE A CEILING-MOUNTED ANNUNCIATOR LIGHT MOUNTED BELOW THE DAMPER

2015 WASHINGTON STATE ENERGY CODE (WSEC) NOTES

HVAC NOTES BELOW APPLY TO THE HVAC SYSTEMS SERVING THE AREAS WORK IS SHOWN, OTHER BUILDING SPACE ARE NOT INCLUDED IN THIS PROJECT SCOPE OF WORK

EQUIPMENT SIZING, PERFORMANCE, & TYPE:

1 LOAD CALCULATIONS WERE PERFORMED USING LIGHTING AND EQUIPMENT

2. OUTPUT CAPACITY OF HEATING AND COOLING EQUIPMENT AND SYSTEMS ARE NO GREATER THAN THE SMALLEST AVAILABLE SIZE THAT EXCEEDS THE CALCULATED LOADS (C403 2 2)

3 ALL ELECTRIC MOTORS SHALL BE COMPLIANT WITH SECTION C405 8 AS APPLICABLE

HVAC SYSTEM CONTROLS

1 EACH HEATING AND COOLING SYSTEM SHALL BE PROVIDED WITH THERMOSTATIC CONTROLS (C403 2 4.1) THAT COMPLY WITH THE FOLLOWING REQUIREMENTS

A. C403 2 4 1 2 SETPOINT OVERLAP RESTRICTION. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THERMOSTATIC CONTROLS SHALL PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM

B. C403 2 4 2. OFF-HOUR CONTROLS. FOR ALL OCCUPANCIES OTHER THAN GROUP R. THE SPACE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM

C. C403 2 4 2 1 THERMOSTATIC SETBACK CAPABILITIES. THERMOSTATIC SETBACK CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN SPACE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C)

D. C403 2 4 2 2 AUTOMATIC SETBACK AND SHUTDOWN CAPABILITIES. AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS, A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS, OR AN OCCUPANCY SENSOR

E. C403 2 4 2 3 AUTOMATIC START CAPABILITIES. AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY

SERVICE WATER HEATING

1 HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED WITH NOT LESS THAN 1 INCH OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0 27 BTU PER INCH/H • FT2 • °F (C404 6). INSULATION TO BE JOHNS MANVILLE MICRO-LOK FIBER GLASS PIPE INSULATION OR EQUAL. HOT WATER PIPING THAT IS PART OF THE FINAL PIPE RUN TO THE PLUMBING FIXTURE AND IS NOT PART OF THE AUTOMATIC CIRCULATING HOT WATER RECIRCULATION PATH IS NOT REQUIRED TO MEET THE MINIMUM INSULATION REQUIREMENTS OF C404 8

2 CIRCULATING PUMPS SHALL BE EQUIPPED WITH AUTOMATIC TIME SWITCHES OR OTHER CONTROLS TO TURN OFF THE SYSTEM DURING PERIODS OF NON-USE (C404 7 / 8)

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PROJECT # 210223

BID SET

ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

GENERAL SPECIFICATIONS

SHEET #

M0.02

SPECIFICATIONS

DIVISION 23 - HEATING VENTILATION AND AIR CONDITIONING

HANGERS AND SUPPORTS FOR HVAC, PIPING AND EQUIPMENT

- HANGERS, BRACKETS, ANCHORS AND MISCELLANEOUS SUPPORTS SHALL BE PROVIDED FOR THE INSTALLATION OF ALL PIPING AND HVAC EQUIPMENT
- SUPPORTING DEVICES SHALL BE ATTACHED TO CEILING, WALLS AND FLOORS BY BOLTS AND FASTENERS
- PIPE HANGERS AND VERTICAL SUPPORT SPACING SHALL BE IN COMPLIANCE WITH THE 2015 INTERNATIONAL MECHANICAL CODE
- MOUNTS, ANCHORS AND BRACING SHALL MEET 2015 I B.C AND I M.C SEISMIC CODES AND MANUFACTURER'S SPECIFICATIONS

VIBRATION AND SEISMIC CONTROLS FOR HVAC

THE SEISMIC BRACING AND ANCHORAGE OF DUCTWORK AND EQUIPMENT SHALL BE CONSTRUCTED WITH "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", PUBLISHED BY SMACNA (MOST RECENT EDITION)

CONTROLS FOR HVAC

A. RESPONSIBILITY
THE CONTROLS ARE TO BE PROVIDED AS PART OF A COMPLETE HVAC SYSTEM.

B. SPECIFICATIONS
- ALL CONTROLS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THE 2015 VERSIONS OF THE INTERNATIONAL CODES AND WASHINGTON STATE ENERGY CODE
- ALL CRITERIA NOT SPECIFIED HEREIN, BUT NECESSARY FOR COMPLETE SYSTEMS SHALL BE PROVIDED
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE CONTROLS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS

C. HVAC + CONTROLS
- THE PLANS ARE SCHEMATIC BY NATURE AND DO NOT SHOW EVERY ASPECT OF THE COMPONENTS AND CONTROLS OF THE SYSTEMS. THE CONTRACTOR SHALL SUBMIT TO THE OWNER THEIR COMPONENTS AND ENOUGH SPECIFIC INFORMATION TO DEMONSTRATE HOW THE HVAC SYSTEM WILL BE CONTROLLED

D. EXECUTION
- THE MECHANICAL CONTRACTOR SHALL COORDINATE AND PROVIDE INTERFACING BETWEEN THE CONTROLS FURNISHED WITH INDIVIDUAL PIECES OF EQUIPMENT

DUCTING SYSTEMS.

1. RIGID DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND SEALED IN ACCORDANCE WITH THE 2015 INTERNATIONAL MECHANICAL CODE (603)
2. ALL RIGID HVAC DUCTWORK IS 2.0 INCH W.C. PRESSURE CLASSIFICATION (603.3)
3. RIGID DUCTWORK SHALL BE GALVANIZED MEETING SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
4. RIGID DUCTWORK SHALL BE ALUMINUM FOR HIGH MOISTURE MEETING SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
5. FLEXIBLE AIR DUCTWORK SHALL MEET SECTION 603.6 REQUIREMENTS

REFRIGERANT PIPING SYSTEMS

1. REFRIGERANT PIPING, VALVES AND ACCESSORIES SHALL BE PROVIDED IN COMPLIANCE WITH MANUFACTURER'S SYSTEM REQUIREMENTS.

MECHANICAL INSULATION

A. GENERAL

MANUFACTURERS: MANVILLE, OWENS-CORNING, CERTAINTEED OR KNAUF. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

INSULATION THICKNESS: PER WSEC

B. INSULATION MATERIALS

INDOOR PIPE INSULATION: FIBERGLASS PIPE INSULATION WITH ALL-SERVICE (VAPOR BARRIER) JACKET SHALL BE PROVIDED FOR ALL PIPING SYSTEMS EXCEPT REFRIGERANT PIPING. FITTINGS SHALL BE MITERED SECTIONS OF INSULATION WITH THE SAME THICKNESS AS ADJACENT PIPE INSULATION WITH FACTORY-PREMOLDED ONE-PIECE, UL LISTED (25/50) PVC FITTING COVERS. INSTALLATION MUST REFLECT CAREFUL WORKMANSHIP AND BE NEAT IN APPEARANCE. VAPOR BARRIER SHALL BE SEALED AT ALL JOINTS ON COLD PIPING.

OUTDOOR PIPE INSULATION: INSULATION AND FITTINGS SAME AS SPECIFIED FOR INDOOR PIPE INSULATION. PROVIDE METAL JACKETS OF 0.016" ALUMINUM WITH INTEGRAL VAPOR RETARDER, SELF-SEALING, WATERTIGHT METAL BANDS FOR BUTT JOINTS. SEAL JOINTS WITH ALUMINUM PIGMENTED VAPOR RETARDER MASTIC FOSTER 60-65, OR APPROVED EQUIVALENT.

ROOF DRAIN BODY INSULATION: FLEXIBLE FIBERGLASS BLANKET CONFORMING TO ASTM C 553, TYPE I, AND NOMINAL DENSITY NOT LESS THAN 1 LB. PER CUBIC FOOT COVERED WITH 8-OUNCE CANVAS AND VAPOR RETARDER CEMENT.

REFRIGERANT PIPING INSULATION: 3/4" THICK IMCOA "IMCOLOCK" OR "IMCOSHIELD" INSULATION ON ALL REFRIGERATION GAS PIPING, AND ALL OUTDOOR REFRIGERANT LIQUID PIPING. NOT FOR USE ON OTHER PIPING SYSTEMS. PROVIDE METAL JACKETS OF 0.016" ALUMINUM ON OUTDOOR INSULATION.

DUCT AND PLENUM INSULATION: FIBERGLASS, 0.75-POUND DENSITY, FLEXIBLE DUCT INSULATION WITH KRAFT VAPOR BARRIER. VAPOR BARRIER SHALL BE SEALED AT ALL JOINTS AND ACCESS DOORS, ETC. IN GENERAL, INSTALLATION MUST REFLECT CAREFUL WORKMANSHIP. NEAT IN APPEARANCE.

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MECHANICAL SPECIFICATIONS

SHEET #
M0.03

DATE/ TIME PRINTED:

VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE

TAG	AREA SERVED	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	TYPE	CONNECTED TO:		SUPPLY FAN		COOLING CAPACITY				HEATING CAPACITY		ELECTRICAL			DIMENSIONS	WEIGHT	OPTIONS AND ACCESSORIES
					CONDENSING UNIT	ZONE CHANGEOVER DEVICE	EXT SP	AIR FLOW RATE CFM	TOTAL BTU/H	SENSIBLE BTU/H	ENTERING AIR		TOTAL BTU/H	ENTERING AIR °FDB	POWER SUPPLY	MIN CIRCUIT AMPS	MAX OVERCURRENT PROTECTION	WxHxD	NET	
							IN	HIGH			°F DB	°F WB			VOLTAGE - PHASE	MCA	MOP	INCH	LBS	
FCU-1	CHILD WATCH & SOCIAL WORKER	FXSQ24TAVJU	2 0	DUCTED UNIT	CU-1	YES	0 6	740	22,950	16,530	78	65	27,980	68 0	208-1	1 8	15 0	39 4 x 9 7 x 31 5	90	1,2,3,4,5,6
FCU-2	DOSING, WAITING, ADMIN	FXSQ24TAVJU	2 0	DUCTED UNIT	CU-1	YES	0 6	740	22,950	16,530	78	65	27,980	68 0	208-1	1 8	15 0	39 4 x 9 7 x 31 5	90	1,2,3,4,5,6
FCU-3	GROUP COUNSELING	FXSQ18TAVJU	1 5	DUCTED UNIT	CU-1	YES	0 6	600	17,170	13,040	78	65	20,810	68 0	208-1	1 6	15 0	39 4 x 9 7 x 31 5	80	1,2,3,4,5,6
FCU-4	COUNSELING OFFICES	FXSQ15TAVJU	1 3	DUCTED UNIT	CU-1	YES	0 6	530	14,280	10,840	78	65	17,740	68 0	208-1	1 4	15 0	27 6 x 9 7 x 31 5	70	1,2,3,4,5,6
FCU-5	PROVIDER OFFICES	FXSQ05TAVJU	0 5	DUCTED UNIT	CU-1	YES	0 5	280	5,630	4,580	78	65	6,790	68 0	208-1	0 8	15 0	21 7 x 9 7 x 31 5	60	1,2,3,4,5,6
FCU-6	GENERAL CLINIC	FXSQ07TAVJU	0 6	DUCTED UNIT	CU-1	YES	0 5	280	7,170	5,480	78	65	8,870	68 0	208-1	0 8	15 0	21 7 x 9 7 x 31 5	60	1,2,3,4,5,6
FCU-7	EXAM ROOMS	FXSQ05TAVJU	0 5	DUCTED UNIT	CU-1	YES	0 5	280	5,630	4,580	78	65	6,790	68 0	208-1	0 8	15 0	21 7 x 9 7 x 31 5	60	1,2,3,4,5,6
FCU-8	LAB/PHLEB	FXSQ05TAVJU	0 5	DUCTED UNIT	CU-1	YES	0 5	280	5,630	4,580	78	65	6,790	68 0	208-1	0 8	15 0	21 7 x 9 7 x 31 5	60	1,2,3,4,5,6
FCU-9	BILLING, ADMIN, LOUNGE	FXSQ24TAVJU	2 0	DUCTED UNIT	CU-1	YES	0 6	740	22,950	16,530	78	65	27,980	68 0	208-1	1 8	15 0	39 4 x 9 7 x 31 5	90	1,2,3,4,5,6
FCU-10	OFFICE	FXSQ15TAVJU	1 3	DUCTED UNIT	CU-1	YES	0 6	530	14,280	10,840	78	65	17,740	68 0	208-1	1 4	15 0	27 6 x 9 7 x 31 5	70	1,2,3,4,5,6
FCU-11	RESTROOMS	FXSQ09TAVJU	0 8	DUCTED UNIT	CU-1	YES	0 6	310	9,500	7,500	78	65	10,500	68 0	208-1	0 8	15 0	21 7 x 9 7 x 31 5	90	1,2,3,4,5,6

SCHEDULE NOTES

1. EASE OF INSTALLATION WITH AUTO ADJUSTING AIRFLOW AT COMMISSIONING BASED ON EXTERNAL STATIC PRESSURE
2. EASY MAINTENANCE WITH SERVICE ACCESS FROM BELOW
3. PROVIDE BUILT-IN CONDENSATE PUMP
4. PROVIDE MERV 13 FILTERS FILTERS AND FILTER BOXES TO BE SIZED TO MINIMIZE PRESSURE DROP DUE TO INCREASED FILTRATION REQUIREMENTS
5. STANDARD LIMITED WARRANTY 10-YEAR WARRANTY ON COMPRESSOR AND ALL PARTS
6. SEE PLANS FOR THERMOSTAT/ROOM SENSOR LOCATIONS UNITS TO HAVE MULTIPLE THERMOSTATS/ROOM SENSORS

VARIABLE REFRIGERANT VOLUME - AIR-COOLED CONDENSING UNIT SCHEDULE

UNIT	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE		CONNECTION RATIO (%)	ELECTRICAL				DIMENSIONS		EFFICIENCY (DUCTED/NONDUCTED)				
				BTU/H	AMBIENT DESIGN (°F DB)	BTU/H	AMBIENT DESIGN (°F DB/WB)	FACTORY CHARGE (LBS)	ADD'L REFRIGERANT (LBS)		VOLTAGE - PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVERCURRENT PROTECTION (MOP)	RUNNING CURRENT (A)	WxHxD (INCH)	WEIGHT (LBS)	EER	IEER	COP 47	COP 17	SCHE
CU-1	REYQ144AYDA	12	VRV-IV HEAT RECOVERY	143,139	84 2	138,006	32 0 / 30 7	25 8	N/A	107 2	480-3	27 9	40	19 3	48 9 x 66 7 x 30 2	800	11.9/11 6	23 5/21 6	3 7/3 4	2 1/2 1	25 5/22

NOTES

1. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230
2. SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITIONS FOR COOLING AND FOR HEATING
3. SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO LINE LENGTH, VERTICAL SEPARATION, CONNECTION RATIO DESIGN CONDITIONS, CONDENSER COIL COATING
4. CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS
5. CONDENSING UNITS MUST HAVE AUTO CHANGEOVER FUNCTIONS
6. DEMAND LIMITING RELAY CONTACT MUST BE PROVIDED
7. EEV ACTUATORS MUST BE REMOVABLE FROM VALVE BODY WITHOUT DISTURBING THE REFRIGERANT SYSTEM
8. FCU THERMOSTATS MUST PROVIDE +/- 1 DEGREE DEAD-BAND SET-POINT AND CONTROL CAPABILITY
9. SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 DIII-NET SYSTEMS WITH 128 INDOOR UNITS PER SYSTEM PC BY OTHERS
10. MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS AND REFRIGERANT VOLUME
11. SUBSTITUTE MANUFACTURER SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT
12. CONTRACTOR TO VERIFY PIPING DIMENSIONS
13. INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATION CLASS WITHIN PAST 36 MONTHS
14. CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING
15. MANUFACTURERS REPRESENTATIVE MUST HAVE LOCAL STOCK OF PARTS AND FACTORY CERTIFIED TECHNICIAN ON STAFF
16. MANUFACTURERS REPRESENTATIVE SHALL PROVIDE PROOF OF ONGOING INSTALLATION TRAINING AT THEIR LOCAL FACILITY FOR AT LEAST THE PAST 5 YEARS
17. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL FCUS, CONDENSING UNITS MODE CHANGEOVER DEVICES AND ZONE CONTROLS WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE
18. 3-PHASE AIR COOLED CONDENSING UNITS MUST HAVE PUBLISHED PERFORMANCE DATA WITH 200% INDOOR CONNECTED CAPACITY.
19. CONDENSING UNITS MUST BE FURNISHED WITH PROTECTIVE COIL COATING TO WITHSTAND ASTM B117 SALT SPRAY TEST FOR A MINIMUM OF 1000 HOURS PERFORMANCE OF SYSTEM MUST BE DE-RATED FOR COIL COATING

ELECTRIC DUCT HEATER SCHEDULE

TAG	LOCATION	SYSTEM SERVED	CFM MIN/MAX	EAT F	LAT F	HEATER kW	VOLTS/ PHASE	FLA	DIM WxH	CONTROL	STAGES	BASIS OF DESIGN	OPER WT (LBS)	REMARKS
DH-1	CEILING	ERV-1	2,000/2,200	20	68	32	480	39	22x18	DUCT T-STAT	SCR	GREENHECK IDHE	100	1,2,3,4

NOTES
1. OPEN COIL STANDARD SLIP-IN WITH SCR CONTROLLER
2. CONTACTOR-MAGNETIC DISCONNECT, TERMINAL BOX OVERHANG
3. MANUAL THERMAL CUTOUT, DISCONNECT SWITCH-POWER
4. AIRFLOW SWITCH AND CONTROL CIRCUIT TRANSFORMER

VARIABLE REFRIGERANT VOLUME - ZONE HEAT RECOVERY DEVICE SCHEDULE

TAG	BASIS OF DESIGN (DAIKIN)	CONDENSING UNIT SERVED	VOLTAGE - PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVERCURRENT PROTECTION (MOP)	MAX CAPACITY (PER PORT)	DIMENSIONS (WxHxD INCH)	WEIGHT (LBS)	ZONE SERVED	OPTIONS AND ACCESSORIES
BS-1	BS10Q54TVJ	CU-1	208-230V 1ph	1	15	54,000	18-15/16 x 11-1/4 x 18-15/16	80	FIRST FLOOR	

SCHEDULE NOTES

UNLIMITED NUMBER OF UNUSED PORTS PER BOX OR SYSTEM

NO DRAIN PIPING NEEDED

STANDARD LIMITED WARRANTY 10-YEAR WARRANTY ON ALL PARTS

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	LOCATION	SERVES	MAKE & MODEL	SUPPLY FAN			EXHAUST FAN			WINTER SUPPLY	ELECTRICAL					OA FILTER	RA FILTER	OPER WT (LBS)	REMARKS
				CFM	ESP	HP	CFM	ESP	HP	DB	VOLTS	PH	HZ	MCA	MOP				
ERV-1	ROOF	OFFICES & CLINIC	RENEWAIRE HE3XRT	2050	1	3	2050	1	3	65	480	3	60	9 5	15	MERV-13	MERV-13	970	1-10

NOTES
1. PROVIDE MINIMUM ENERGY RECOVERY EFFICIENCY PER 2015 WSEC
2. PROVIDE ELECTRIC DUCT HEATER COIL - SEE DH-1 SCHEDULE FOR ADDITIONAL INFORMATION
3. PROVIDE DUCT SMOKE DETECTOR FOR UNITS OVER 2000 CFM AND INTEGRATE WITH FIRE ALARM. UNIT TO SHUTDOWN UPON ACTIVATION OF SMOKE DETECTOR
4. OUTSIDE AIR INTAKE SHALL BE 10 FT AWAY FROM ALL EXHAUST, VENT, EQUIPMENT
5. PROVIDE SEISMIC CALCULATION FOR ALL EQUIPMENT OVER 400 LBS
6. PROVIDE CONVENIENCE OUTLET
7. UNIT TO BE OUTDOOR RATED. PROVIDE WITH 20 GA PREPAINTED PANELS CONFORMING TO ASTM A653 WITH 2" R8 THERMAL INSULATION
8. UNIT SHALL BE ON 24/7, UNLESS INDICATED OTHERWISE BY OWNER. PROVIDE STAND-ALONE FACTORY CONTROLS
9. FILTERS AND FILTER BOXES TO BE SIZED TO MINIMIZE PRESSURE DROP DUE TO INCREASED FILTRATION REQUIREMENTS
10. UNIT VENTILATION HEAT TO TEMPER AIR. SEE DUCT HEATER SCHEDULE

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MECHANICAL SCHEDULES

SHEET #
M0.04

SPLIT AC SINGLE ZONE UNIT SCHEDULE

TAG	AREA SERVED	FAN		OUTDOOR ELECTRICAL				INDOOR ELECTRICAL				COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH) (47°F)	EER/SEER	HSPF	FILTER	SHIPPED WEIGHT (LBS)	OUTDOOR UNIT BASIS OF DESIGN (DAIKIN)	INDOOR UNIT BASIS OF DESIGN (DAIKIN)	REMARKS
		CFM	ESP	VOLTS	PH	MCA	MOCP	VOLTS	PH	MCA	MOCP									
FC-12/CU-2	IT/DATA	430	--	208	1	8.7	15	208	1	N/A*	N/A*	13,300	13,500	12.5/19	10	MERV 4	50/160	RK24NMVJU	FTK24NMVJU	1,2,3,4

NOTES

1 INCLUDE BUILT IN CONDENSATE OVERFLOW SHUTDOWN SWITCH AND CONDENSATE PUMP

2 PROVIDE WALL MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT

3 AIR ECONOMIZER IS NOT REQUIRED PER WSEC C403.3 EXCEPTION 10

4 *INDOOR UNIT IS POWERED FROM OUTDOOR UNIT

FAN SCHEDULE

TAG	LOCATION	AREA SERVED	FAN		MOTOR			DRIVE TYPE	BASIS OF DESIGN	WEIGHT	REMARKS
			CFM	ESP	HP	VOLTS	PH			LBS	
EF-1	ROOF	LAB	280	0.50	1/10	120	1	DIRECT	GREENHECK G-080-VG	30	1,2,3
EF-2	ROOF	SOIL/JAN	120	0.50	1/4	120	1	DIRECT	GREENHECK G-097-VG	50	1,2,3

NOTES

1 PROVIDE DISCONNECT SWITCH. FAN TO OPERATE CONTINUOUSLY

2 PROVIDE SPEED DIAL FOR BALANCING OF FAN

3 PROVIDE ROOF CURB

INTAKE & RELIEF HOOD SCHEDULE

TAG	AREA SERVED	APPROX SIZE	MAX. CFM	THROAT AREA (SQ. FT.)	MAX PRESSURE DROP (IN. H20)	MANUFACTURER	MODEL	REMARKS
		(INLET DIA (IN))						
GV-1	DRYERS	8	250	0.37	0.05	GREENHECK	GRSR	

DIFFUSER AND GRILLE SCHEDULE

TAG	TYPE	BASIS OF DESIGN	REMARKS
S-1	SUPPLY DIFFUSER	PRICE SCDA	CEILING MOUNT
S-2	LINEAR SLOT DIFFUSER	PRICE SDS	LENGTH x SLOT WIDTH x # SLOTS
R-1	RETURN GRILLE	PRICE 630	CEILING MOUNT
R-2	LINEAR SLOT DIFFUSER	PRICE SDS	LENGTH x SLOT WIDTH x # SLOTS

BRANCH DUCT SIZING

CONNECTION SIZE	BRANCH DUCT SIZE	CFM RANGE
4x4	4"	0-30
6x6	6"	30-80
8x8	8"	80-190
10x10	10"	190-360
12x12	12"	360-580

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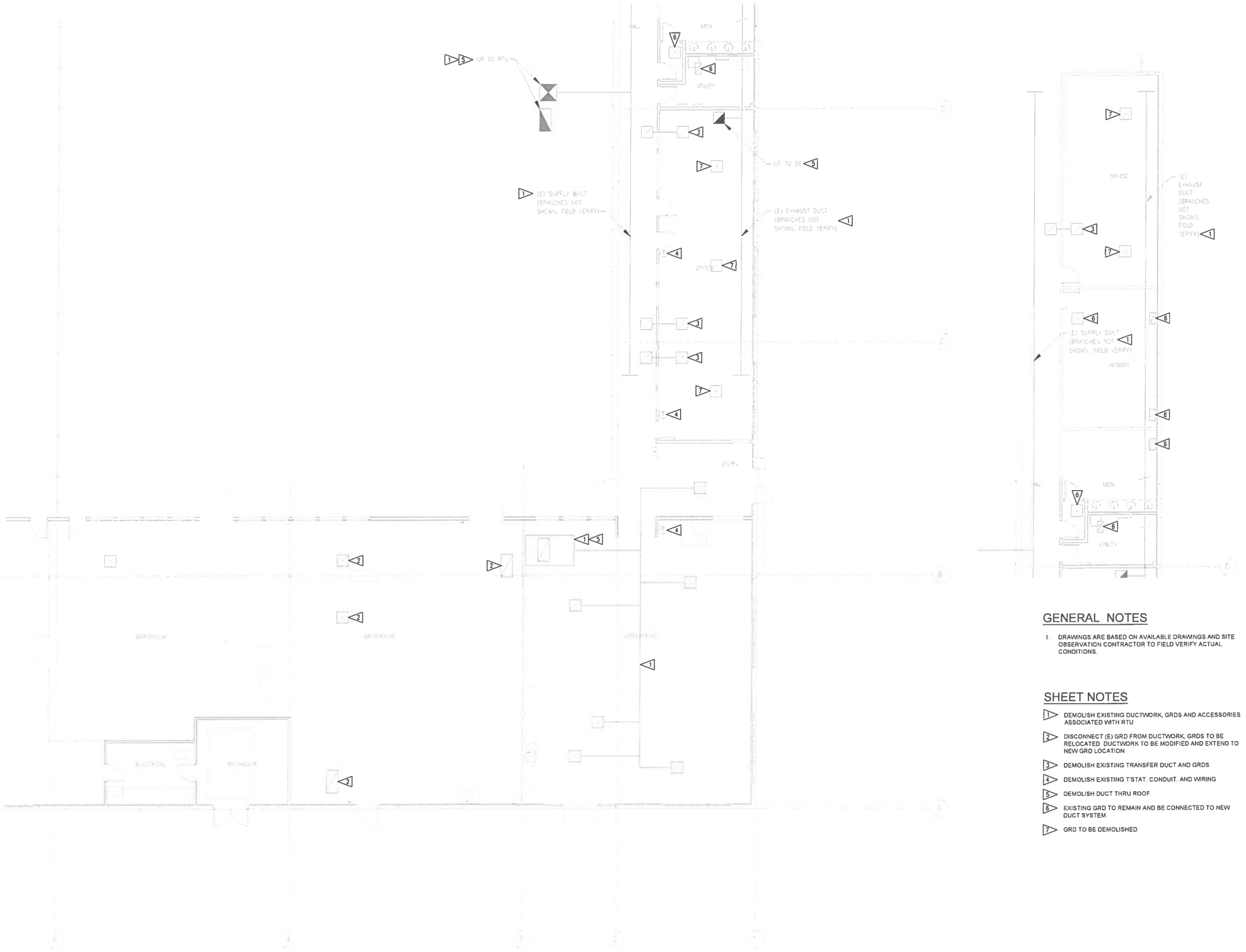

1 FIRST FLOOR HVAC PLAN - DEMO
1/8" = 1'-0"

GENERAL NOTES

1. DRAWINGS ARE BASED ON AVAILABLE DRAWINGS AND SITE OBSERVATION CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS.

SHEET NOTES

1. DEMOLISH EXISTING DUCTWORK, GRDS AND ACCESSORIES ASSOCIATED WITH RTU
2. DISCONNECT (E) GRD FROM DUCTWORK, GRDS TO BE RELOCATED. DUCTWORK TO BE MODIFIED AND EXTEND TO NEW GRD LOCATION.
3. DEMOLISH EXISTING TRANSFER DUCT AND GRDS
4. DEMOLISH EXISTING T'STAT, CONDUIT, AND WIRING
5. DEMOLISH DUCT THRU ROOF
6. EXISTING GRD TO REMAIN AND BE CONNECTED TO NEW DUCT SYSTEM
7. GRD TO BE DEMOLISHED

1/8"=1'-0" 0 2 4 6 8 16 24

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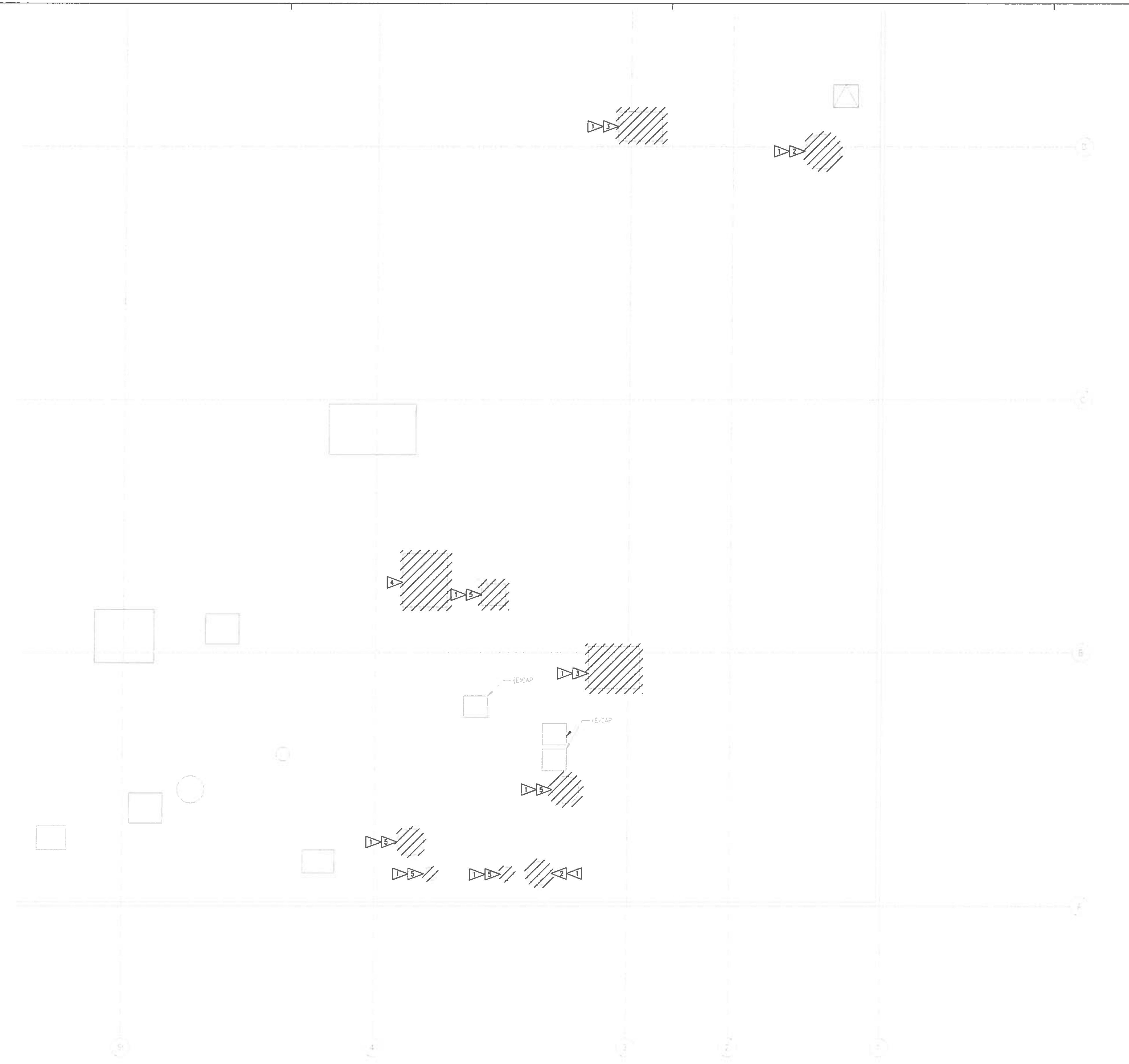
FIRST FLOOR HVAC PLAN - DEMO

SHEET #
M1.01



1 ROOF HVAC PLAN - DEMO
1/8" = 1'-0"

1/8"=1'-0" 0 2 4 6 8 16 24

GENERAL NOTES

1 DRAWINGS ARE BASED ON AVAILABLE DRAWINGS AND SITE OBSERVATION CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS

SHEET NOTES

1. DEMOLISH EXISTING DUCT THRU ROOF PROVIDE CAP OVER EXISTING CURB DEMOLISH ASSOCIATED DUCTWORK ABOVE CEILING
2. DEMOLISH EXISTING EXHAUST FAN DUCTWORK AND ACCESSORIES. PROVIDE CAP OVER EXISTING CURB
3. DEMOLISH EXISTING RTU, CURB AND ASSOCIATED DUCTWORK AND ACCESSORIES PATCH ROOF
4. DEMOLISH EXISTING CONDENSING UNIT
5. DEMOLISH EXISTING FLUE AND CAP CURB

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ROOF HVAC PLAN - DEMO

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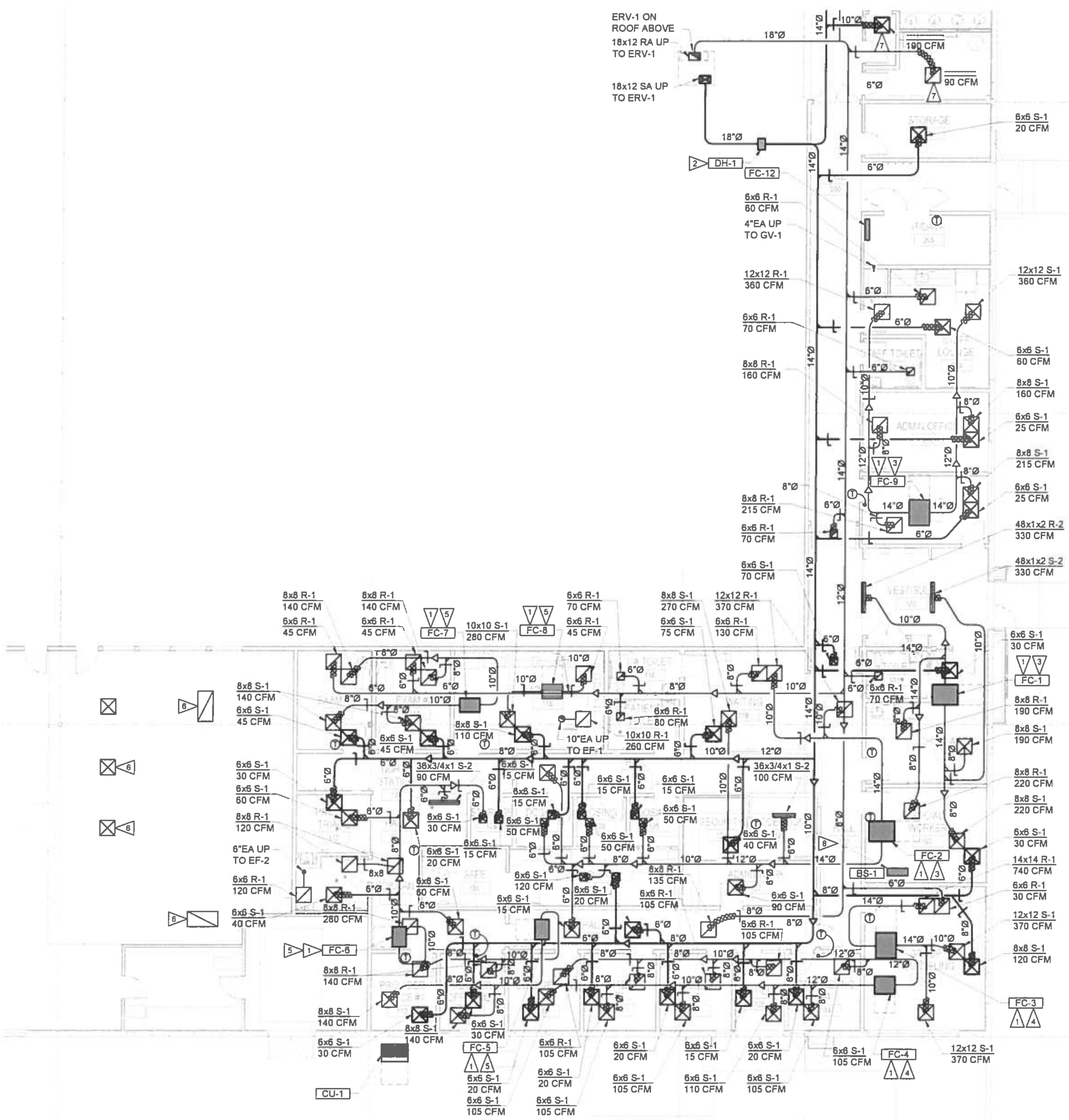

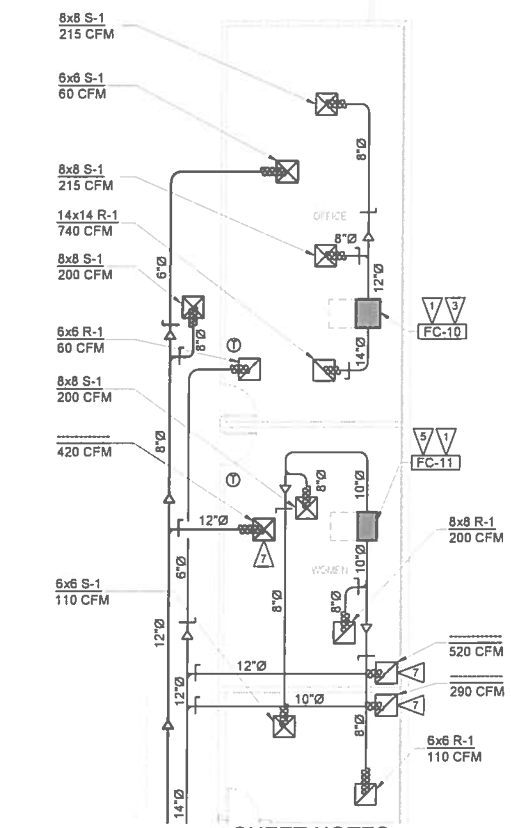

1 FIRST FLOOR HVAC PLAN

1/8" = 1'-0"

GENERAL NOTES

1. SUPPORT DUCTWORK PER DETAIL 2/M3 02
2. PROVIDE VOLUME DAMPER AT EACH DIFFUSER/GRILLE BRANCH TAKE-OFF
3. AIR BALANCE DIFFUSER/GRILLES TO CFM'S NOTED ON PLANS
4. OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MIN 10' FROM EXHAUST AIR OUTLETS, LOT LINES VENTS, STREETS ALLEYS PARKING LOTS AND LOADING DOCKS
5. EXHAUST AIR OUTLETS SHALL BE LOCATED A MIN OF 3' FROM OPERABLE OPENING AND 10' FROM OUTSIDE AIR INTAKES
6. ROUTE CONDENSATE TO P-TRAP OF NEAREST SINK, OR TO MOP SINK REFER TO DETAILS
7. FOR ALL MANUAL VOLUME DAMPERS LOCATED ABOVE HARD LID CEILING. PROVIDE REMOTE CABLE OPERATION
8. DRYER EXHAUST DUCT TO BE ROUTED WITHIN FIRE RATED ENCLOSURE.
9. COORDINATE ACCESS DOOR/PANEL LOCATIONS FOR MAINTENANCE OF EQUIPMENT AND ACCESSORIES (INCLUDING FIRE/SMOKE DAMPERS MOTORIZED DAMPERS AND ERV)
10. COORDINATE GRD LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS
11. CONTRACTOR TO FIELD COORDINATE LOCATION OF EQUIPMENT AND DIFFUSERS WITH WORK OF OTHER TRADES
12. PROVIDE SIGNAGE ON DUCT WORK AND FAN COIL TO SHUT OFF UVC DEVICE PRIOR TO CONDUCTING ANY WORK ON FAN COIL, INCLUDING FILTER CHANGES PROVIDE SIGNAGE ON BOTH SIDES OF FAN COIL AND UP STREAM/DOWN STREAM DUCT WORK AND FILTER ACCESS

SHEET NOTES

1. PROVIDE CONDENSATE PIPING TO INDIRECT HUB DRAIN RECEPTOR UNDER NEAREST SINK PER DETAILS 1 & 8/M3 01 INSTALL AND ROUTE REFRIGERANT PIPING THROUGH ROOF AND WALL PER MANUFACTURER'S RECOMMENDATION FOR PENETRATIONS THROUGH FIRE-RESISTANCE RATED ASSEMBLIES PROVIDE THROUGH-PENETRATIONS AND PER UL LISTING F-C-1069 FOR HORIZONTAL PENETRATIONS
2. PROVIDE 16x16 ACCESS PANEL PROVIDE MINIMUM STRAIGHT DUCT BEFORE/AFTER DUCT HEATER PER MANUFACTURER'S RECOMMENDATIONS
3. PROVIDE 16x12 RETURN AIR PLENUM WITH UVR SEL-16RL-T508-HO-1-EL 36 WATT UV LIGHT MOUNTED TO TOP INSIDE OF DUCT
4. PROVIDE 16x10 RETURN AIR PLENUM WITH UVR SEL-16RL-T508-HO-1-EL 36 WATT UV LIGHT MOUNTED TO TOP INSIDE OF DUCT
5. PROVIDE 16x6 RETURN AIR PLENUM WITH UVR SEL-16RL-T508-HO-1-EL 36 WATT UV LIGHT MOUNTED TO TOP INSIDE OF DUCT
6. REINSTALL SALVAGED GRD IN NEW LOCATION PROVIDE EXTENTION TO CONNECT TO EXISTING DUCTWORK.
7. PROVIDE DUCT CONNECTION TO EXISTING GRD
8. INSTALL HEAT RECOVERY BOX PER MANUFACTURER'S RECOMMENDATIONS IN ACCESSIBLE LOCATION WITH MINIMUM REQUIRED CLEARANCE FOR SERVICE

REFRIGERANT PIPING NOTES

1. DESIGN INTENT IS ALL REFRIGERANT PIPING IS CONCEALED AND ROUTED IN WALLS FLOOR/CEILING, AND ROOF/CEILING ASSEMBLES WITHOUT THE USE OF DROPPED SOFFITS EXCEPT FOR PARKING GARAGES
2. CONTRACTOR IS RESPONSIBLE FOR FINAL ROUTING OF PIPING PER SELECTED SPLIT SYSTEM MANUFACTURER INSTALLATION REQUIREMENTS THIS INCLUDES VERIFYING THE MAXIMUM PERMISSIBLE LENGTH OF REFRIGERANT PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS
3. REFRIGERANT PIPING ROUTING TO COMPLY WITH WASHINGTON STATE MECHANICAL CODE REQUIREMENTS
4. ALL PENETRATIONS OF RATED WALLS FLOOR CEILING, AND ROOF/CEILING ASSEMBLIES TO BE PROTECTED PER WASHING STATE BUILDING CODE REQUIREMENTS
5. ALL HOLES AND NOTCHES IN STRUCTURAL WOOD MEMBERS TO COMPLY WITH STRUCTURAL REQUIREMENTS AND WASHINGTON STATE BUILDING CODE REQUIREMENTS FOR OPENING SIZE AND LOCATION BASED ON SIZE OF MEMBER PENETRATED NOTE THERE ARE DIFFERENT OPENING REQUIREMENTS FOR BEARING WALLS, NON-BEARING WALLS, STRUCTURAL JOISTS, AND BEAMS SEE STRUCTURAL DRAWING FOR DETAILS
6. HOLE NOTCH OR OPENING SIZES ARE REQUIRED TO BE OF SUFFICIENT SIZE TO ACCOMMODATE PIPING AND INSULATION

1/8"=1'-0" 0 2 4 6 8 16 24

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FIRST FLOOR HVAC PLAN

SHEET #

M2.01

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GENERAL NOTES

1. OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MIN 10' FROM EXHAUST AIR OUTLETS, LOT LINES, VENTS, STREETS, ALLEYS, PARKING LOTS, AND LOADING DOCKS
2. EXHAUST AIR OUTLETS SHALL BE LOCATED A MIN OF 3' FROM OPERABLE OPENING AND 10' FROM OUTSIDE AIR INTAKES
3. COORDINATE ACCESS DOOR/PANEL LOCATIONS FOR MAINTENANCE OF EQUIPMENT AND ACCESSORIES (INCLUDING FIRE/SMOKE DAMPERS, MOTORIZED DAMPERS AND ERV)
4. PROVIDE CURBS FOR ALL ROOF MOUNTED EQUIPMENT

SHEET NOTES

1. LOCATE ERV ABOVE EXISTING CURB, PROVIDE CURB ADAPTOR

1 ROOF HVAC PLAN
1/8" = 1'-0"

NORTH

1/8"=1'-0" 0 2 4 6 8 16 24

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ROOF
HVAC PLAN

SHEET #
M2.02

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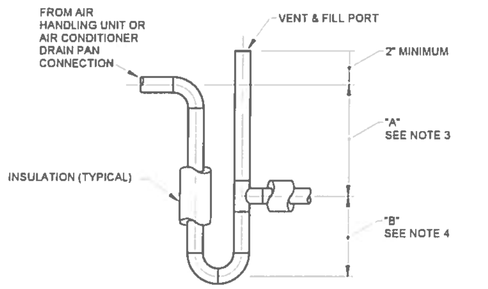
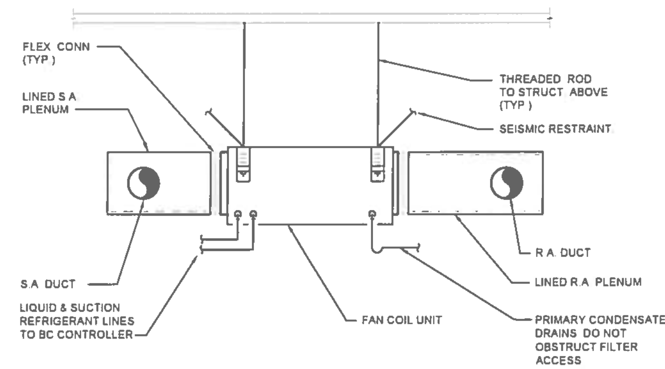
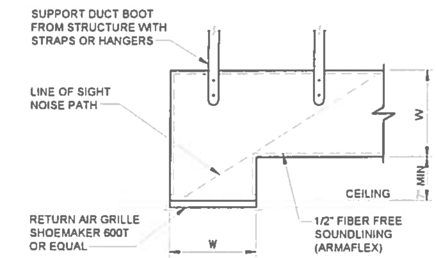


NOTES
1 DRAIN LINE SHALL BE INSULATED
2 DRAIN LINE SIZE SHALL BE EQUIPMENT MANUFACTURER'S MINIMUM DRAIN PAN CONNECTION SIZE BUT NOT LESS THAN 1" DIAMETER
3 TRAP DEPTH DIMENSION "A" SHALL BE THE MAXIMUM POSSIBLE NEGATIVE PRESSURE IN THE UNIT AT THE DRAIN OUTLET (IN INCHES W G) PLUS ONE INCH IF THE PRESSURE IS POSITIVE, "A" SHALL BE ONE INCH
4 TRAP DEPTH DIMENSION "B" SHALL BE HALF OF "A" PLUS ONE INCH IF OUTLET IS UNDER NEGATIVE PRESSURE IF THE PRESSURE IS POSITIVE, "B" SHALL BE THE MAXIMUM POSSIBLE PRESSURE (IN INCHES W G) PLUS TWO INCHES

1 CONDENSATE DRAIN ON FAN COIL TRAP DETAIL
M3 01 SCALE: NTS

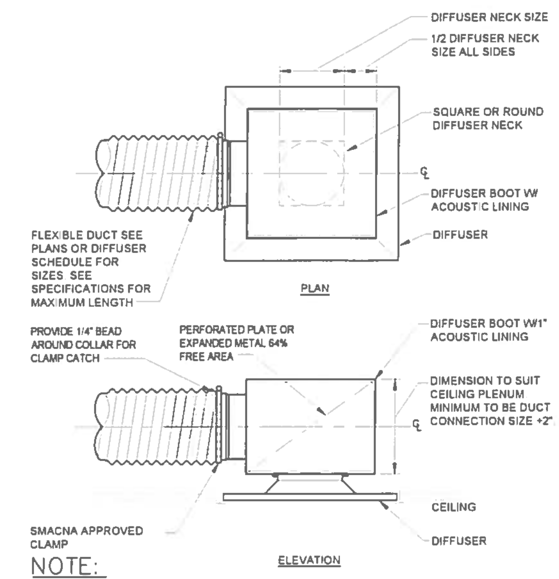


2 SPLIT INDOOR FAN COIL DETAIL
M3 01 SCALE: NTS



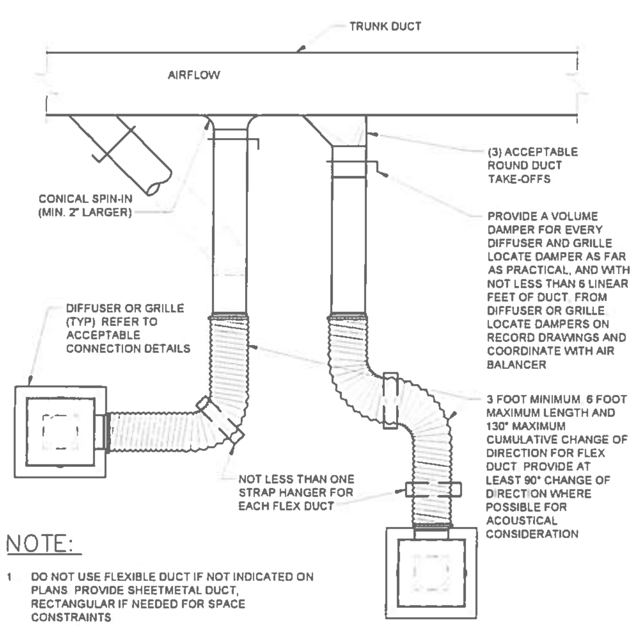
NOTES:
1 RETURN AIR BOOT SHALL BE CONSTRUCTED OF SHEET METAL W/ 1/2" FIVER FREE SOUND LINING
2 INSIDE OF BOOT SHALL BE PAINTED FLAT BLACK.
3 DIMENSION "W" IS EQUAL TO GRILLE WIDTH
4 DIMENSION "L" SHALL BE SUFFICIENT TO PREVENT "LINE OF SIGHT" NOISE PATH OR 2'-0" MIN

3 RETURN GRILLE WITH BOOT DETAIL
M3 01 SCALE: NTS



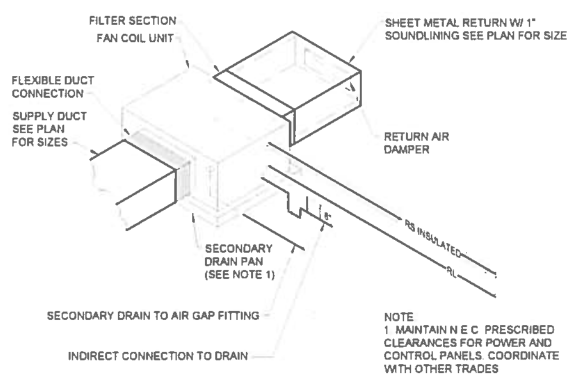
NOTE:
FLEXIBLE DUCT TO DIFFUSERS SHALL NOT BE USED ABOVE NON-REMOVABLE HARD CEILINGS USE RIGID DUCT CONNECTIONS

4 DIFFUSER CONNECTION DETAIL
M3 01 SCALE: NTS



NOTE:
1 DO NOT USE FLEXIBLE DUCT IF NOT INDICATED ON PLANS PROVIDE SHEETMETAL DUCT, RECTANGULAR IF NEEDED FOR SPACE CONSTRAINTS

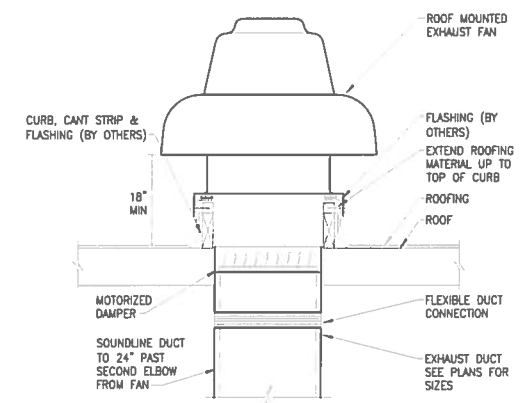
5 CONNECTING DUCT FOR DIFFUSERS AND GRILLES DETAIL
M3 01 SCALE: NTS



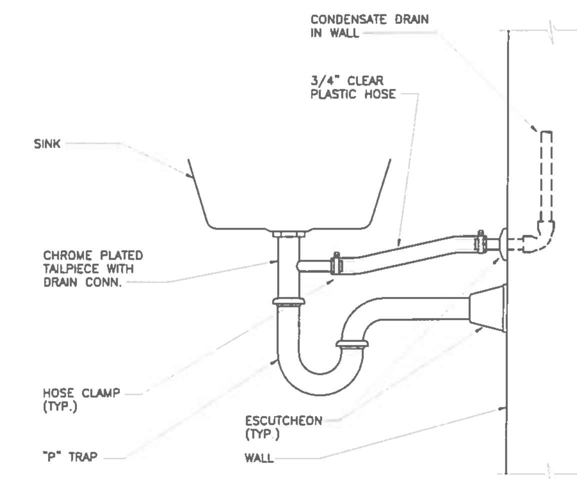
NOTE
1 MAINTAIN N E C PRESCRIBED CLEARANCES FOR POWER AND CONTROL PANELS COORDINATE WITH OTHER TRADES

NOTE
1 PROVIDE SECONDARY DRAIN, DRAIN PAN W/DRAIN PIPE OR INTEGRATED SHUTOFF VALVE, PER IMC

6 SPLIT INDOOR FAN COIL DETAIL
M3 01 SCALE: NTS



7 ROOF MOUNTED EXHAUST FAN DETAIL
M3 01 SCALE: NTS



8 CONDENSATE DRAIN TO TRAP DETAIL
M3 01 SCALE: NTS

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6/15/21

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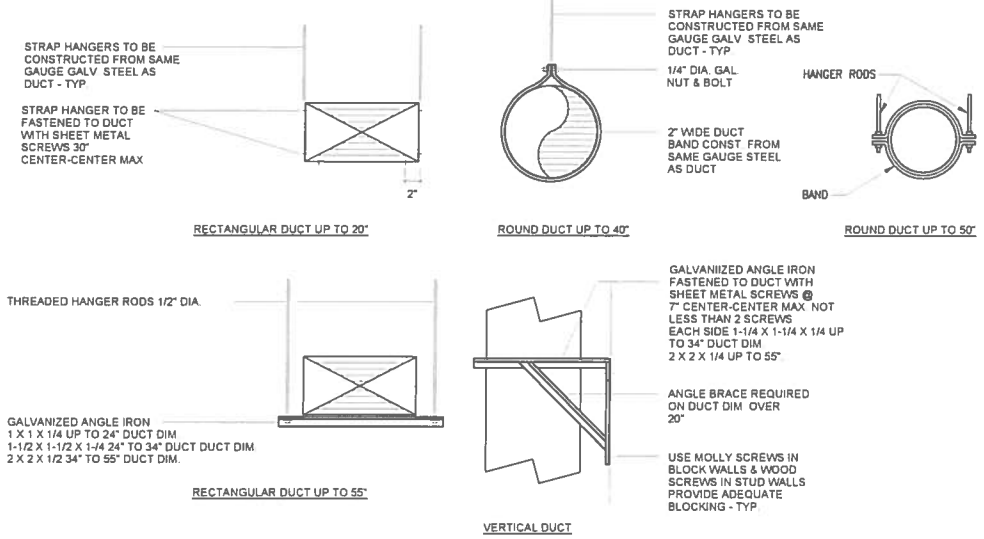
PROJECT #	210223
BID SET	
ISSUE DATE	JUNE 18, 2021
REVISION SCHEDULE	

AHJ APPROVAL STAMP

MECHANICAL DETAILS

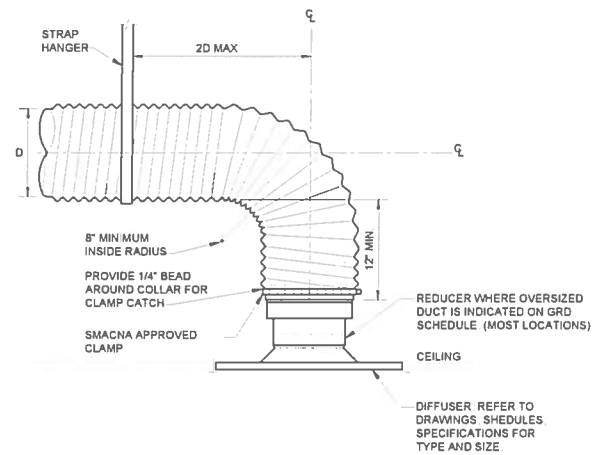
SHEET #
M3.01

DATE/ TIME PRINTED:



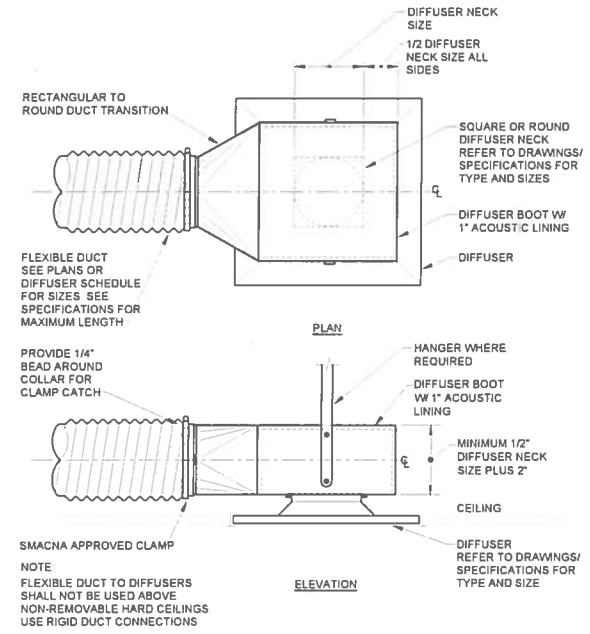
2 DUCT SUPPORT DETAILS

M3.02 SCALE: NTS



3 DIRECT DIFFUSER CONNECTION DETAIL

M3.02 SCALE: NTS



4 RESTRICTED CEILING HEIGHT DIFFUSER CONNECTION DETAIL

M3.02 SCALE: NTS

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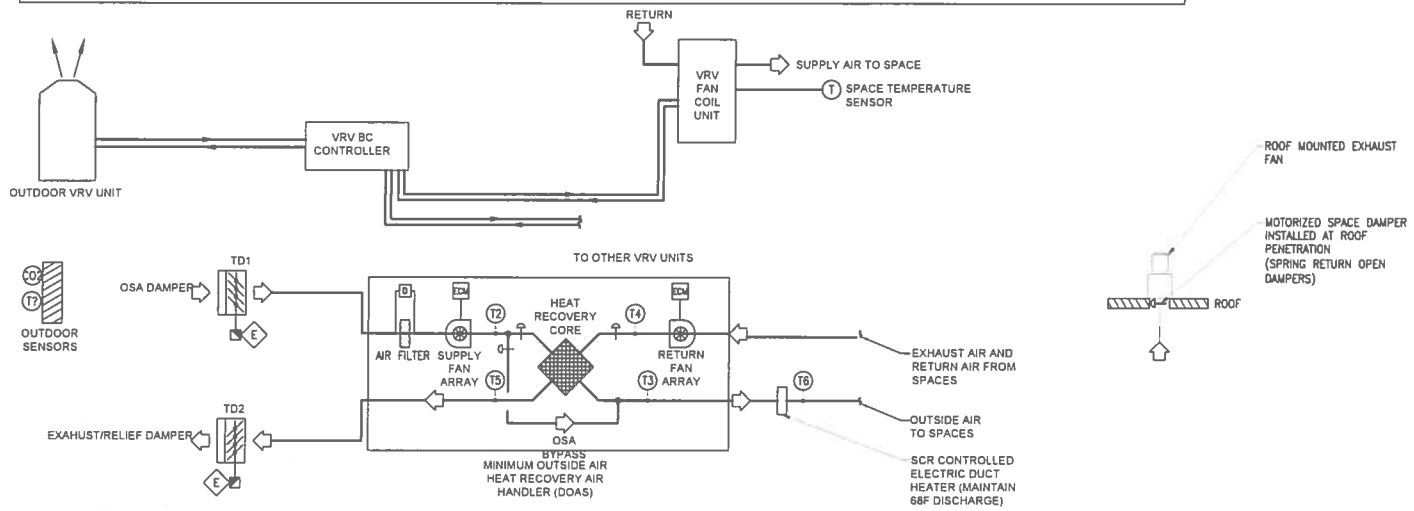
M3.02

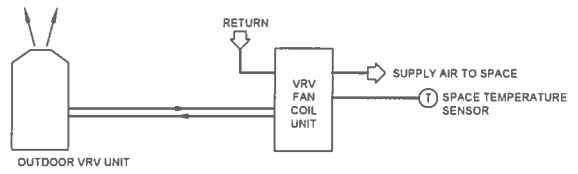
DESCRIPTION OF OPERATIONS



SYSTEM DESCRIPTION

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM SHALL BE PROVIDED WITH COMPLETE MANUFACTURERS CONTROLS PACKAGE. THE SYSTEM SHALL OPERATE UNDER ITS OWN CONTROLS. PROVIDE USER INTERFACE CONTROLLER IN SPACE. CONTROLS SYSTEM SHALL INTEGRATE CONTROL OF THE MINIMUM OUTSIDE AIR HEAT RECOVERY AIR HANDLER (DOAS), DUCT HEATER AND ASSOCIATED DAMPERS AND SENSORS. PROVIDE ALL LABOR, MATERIALS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM FOR BOTH VRV AND DOAS SYSTEM. COORDINATE WITH OWNER FOR SPACE TEMPERATURE SET POINTS DURING SYSTEM SETUP. PROVIDE CONTROLS DRAWINGS, PROGRAMMING, PRODUCT SUBMITTAL TO A/E FOR REVIEW PRIOR TO INSTALLATION.

ALL EQUIPMENT SHALL MAINTAIN OCCUPIED SET POINTS 24 HOURS A DAY 7 DAYS A WEEK. DOAS UNIT AND EXHAUST FAN SHALL RUN CONTINUOUSLY TO MAINTAIN REQUIRED SPACE PRESSURE RELATIONSHIPS.



EQUIPMENT AND ELECTRICAL ROOM UNIT SYSTEM DESCRIPTION

VARIABLE REFRIGERANT FLOW SYSTEM SHALL BE PROVIDED WITH COMPLETE MANUFACTURERS CONTROLS PACKAGE. THE SYSTEM SHALL OPERATE UNDER ITS OWN CONTROLS. PROVIDE USER INTERFACE CONTROLLER IN SPACE. PROVIDE ALL LABOR, MATERIALS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM COORDINATE WITH A/E FOR SPACE TEMPERATURE SET POINTS DURING SYSTEM SETUP. PROVIDE CONTROLS DRAWINGS, PROGRAMMING, PRODUCT SUBMITTAL TO A/E FOR REVIEW PRIOR TO INSTALLATION.

SYSTEM DIAGRAM LEGEND

SYMBOL	DESCRIPTION
T4	BINARY INPUT DEVICE (SEE BELOW FOR NOMENCLATURE)
T4	ANALOG SENSOR (SEE BELOW FOR NOMENCLATURE)
T4	AMBIENT ANALOG SENSOR (WALL MOUNTED) (SEE BELOW FOR NOMENCLATURE)

NUMBER (IF SHOWN) INDICATES SPECIFIC REFERENCE IN SEQUENCE

LETTER CODE

C = CURRENT (AMPERAGE)
D = DIFFERENTIAL PRESSURE
E = END SWITCH
F = FLOW
H = HUMIDITY
L = LOW TEMPERATURE
P = PRESSURE
S = SWITCH (MANUAL)
T = TEMPERATURE
V = VELOCITY

NOMENCLATURE

ECM	ELECTRONICALLY COMMUTATED MOTOR
CR	CONTROL RELAY
CP	CONTROL PANEL
MS	MOTOR STARTER (SEE DIV 16)

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CONTROLS

SHEET #

M4.01

GENERAL LEGEND

SYMBOL	DESCRIPTION
	DETAIL SYMBOL A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
	SECTION SYMBOL A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN
	SECTION CUT LINE INDICATOR
1	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
P1-1	PLUMBING FIXTURE REFERENCE (REFER TO SCHEDULE)
AHU-1	EQUIPMENT IDENTIFICATION (REFER TO SCHEDULES)
A	MEDICAL GAS OUTLET IDENTIFICATION (REFER TO SCHEDULE)
	MEDICAL GAS ZONE VALVE STATION MOUNTED IN WALL
	MEDICAL GAS ALARM PANEL MOUNTED IN WALL
	MEDICAL GAS OUTLET
1	REVISION CLOUD AND REVISION NUMBER
XX	BINARY (YES/NO) SENSING SWITCH (PIPE OR DUCT MOUNTED)
XX	BINARY (YES/NO) SENSING SWITCH (SURFACE MOUNTED)
XX	ANALOG SENSING DEVICE (PIPE OR DUCT MOUNTED)
XX	ANALOG SENSING DEVICE (SURFACE MOUNTED)
X	ANALOG SENSING DEVICE (SURFACE MOUNTED) (APPROPRIATE FOR MEASURED FLUID) SUBSCRIPT LETTER (X) INDICATES A - ALARM PRESSURE SENSOR D - DIFFERENTIAL PRESSURE F - FLOW RATE H - HUMIDITY L - LOW LIMIT P - PRESSURE (STATIC) T - TEMPERATURE V - VELOCITY & VOLUME FLOW RATE

ABBREVIATIONS

ABBR	DESCRIPTION	ABBR	DESCRIPTION
ABV	ABOVE	L	LENGTH
AD	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
ADA	AMERICANS WITH DISABILITIES ACT	LBS	POUNDS
AHU	AIR HANDLING UNIT	LF	LINEAR FOOT/FEET
AL	ACOUSTIC LINED	LVG	LEAVING
AP	ACCESS PANEL	LWG	LOW WALL GRILLE
APD	AIR PRESSURE DROP	LWR	LOW WALL REGISTER
ARCH	ARCHITECT/ARCHITECTURAL	LWT	LEAVING WATER TEMPERATURE
ARV	AUTOMATIC RELIEF VALVE or ACID RESTISTANT VENT	MAX	MAXIMUM
ARW	ACID RESTISTANT WASTE	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BDD	BACKDRAFT DAMPER	MCC	MOTOR CONTROL CENTER
BFP	BACKFLOW PREVENTER	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MFR	MANUFACTURER
BG	BELOW GROUND	MIN	MINIMUM
BJ	BETWEEN JOISTS	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNIT	MTD	MOUNTED
BTUH	BRITISH THERMAL UNITS PER HOUR	MTG	MOUNTING
C	CENTIGRADE	N/A	NOT APPLICABLE
CC	COOLING COIL	N/C	NORMALLY CLOSED
CD	CEILING DIFFUSER	N/O	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
CG	CEILING GRILLE	N/C	NOT IN CONTRACT
CI	CAST IRON	NTS	NOT TO SCALE
CLG	CEILING	OA	OUTSIDE AIR
CO	CLEANOUT	OBD	OPPOSED BLADE DAMPER
CONC	CONCRETE	O/C	ON CENTER
CONN	CONNECT or CONNECTION	OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION	OPNG	OPENING
CONT	CONTINUATION	PCV	PRESSURE CONTROL VALVE
CR	CONDENSATE RETURN	PD	PRESSURE DROP
DB	DECIBLE or DRY BULB	PH or Ø	PHASE
DDC	DIRECT DIGITAL CONTROL	PLCS	PLACES
DIA	DIAMETER	POC	POINT OF CONNECTION
DIM	DIMENSION	POUA	POINT OF USE ALARM
DN	DOWN	PRV	PRESSURE REDUCING VALVE
DPR	DAMPER	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PSIG	POUNDS PER SQUARE INCH GAGE
E-100	EXHAUST AIR NUMBER INDICATES CFM QUANTITY	R-100	RETURN AIR NUMBER INDICATES CFM QUANTITY
EA	EACH	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RAG	RETURN AIR GRILLE
EF	EXHAUST FAN	REQD	REQUIRED
EG	EXHAUST GRILLE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
ELEC	ELECTRIC or ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
ELEV	ELEVATION	S-100	SUPPLY AIR NUMBER INDICATES CFM QUANTITY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SF	SUPPLY FAN
EWT	ENTERING WATER TEMPERATURE	SHT	SHEET
EXH	EXHAUST	SIM	SIMILAR
EXST or (E)	EXISTING	SP	STATIC PRESSURE
F	FAHRENHEIT	SQ	SQUARE
FA	FACE AREA	SQ FT	SQUARE FOOT/FEET
FCO	FLOOR CLEANOUT	SS	STAINLESS STEEL
FCU	FAN COIL UNIT	STD	STANDARD
FD	FLOOR DRAIN	THK	THICK
FDPR	FIRE DAMPER	TP	TRAP PRIMER or TEST PLUG
FFD	FUNNEL FLOOR DRAIN	TYP	TYPICAL
FF	FINAL FILTER	TU	TERMINAL UNIT
FLR	FLOOR	UBC	UNIFORM BUILDING CODE
FPM	FEET PER MINUTE	UFC	UNIFORM FIRE CODE
FPS	FEET PER SECOND	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
FT	FOOT/FEET	UMC	UNIFORM MECHANICAL CODE
FV	FACE VELOCITY	UPC	UNIFORM PLUMBING CODE
GA	GAGE or GAUGE	UG	UNDERGROUND
GAL	GALLON	UH	UNIT HEATER
GALV	GALVANIZED	VA	VALVE
GPH	GALLONS PER HOUR	VAC	VACUUM
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME
H	HEIGHT	VD	VOLUME DAMPER
HD	HEAD	VEL	VELOCITY
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HTG	HEATING	VTR	VENT THRU ROOF
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	W	WIDE
HWG	HIGH WALL GRILLE	W/	WITH
HWR	HIGH WALL REGISTER	W/O	WITHOUT
HZ	HERTZ	WB	WET BULB
ID	INSIDE DIAMETER	WCO	WALL CLEANOUT
IE	INVERT ELEVATION	WG	WATER GAGE
IN	INCH or INCHES	WGE	WASTE GAS EVACUATION
INSUL	INSULATION	WPD	WATER PRESSURE DROP
INV	INVERT	WSEC	WASHINGTON STATE ENERGY CODE
KW	KILOWATT	WT	WEIGHT
KWH	KILOWATT HOUR		

PIPING LEGEND

SYMBOL	ABBR	DESCRIPTION
		LIGHT LINEWORK INDICATES EXISTING PIPING OR EQUIPMENT
		INDICATES PIPING OR EQUIPMENT TO BE REMOVED
— — SS — —	SS	SANITARY SEWER - OUTSIDE BUILDING AND BELOW GROUND
— — SD — —	SD	STORM DRAIN - OUTSIDE BUILDING AND BELOW GROUND
	W	WASTE (& SOIL) - ABOVE GROUND - INTERIOR
	W	WASTE (& SOIL) - BELOW GROUND - INTERIOR
	V	VENT
	CW	COLD WATER - DOMESTIC
	HW	HOT WATER - DOMESTIC
	HWC	HOT WATER CIRCULATING - DOMESTIC
—— RD ——	RD	RAINWATER DRAINAGE - ABOVE GROUND
— — RD — —	RD	RAINWATER DRAINAGE - BELOW GROUND
—— ORD ——	ORD	RAINWATER DRAINAGE OVERFLOW - ABOVE GROUND
— — ORD — —	ORD	RAINWATER DRAINAGE OVERFLOW - BELOW GROUND
—— D ——	D	DRAIN - INDIRECT
- - - RV - - -	RV	RELIEF VALVE VENT
		PIPE SLOPE DIRECTION
—— RL ——	RL	LIQUID LINE - REFRIGERANT
—— RS ——	RS	SUCTION LINE - REFRIGERANT
—— G ——	G	NATURAL GAS
—— ATV ——	ATV	ATMOSPHERIC VENT
	CAP	PIPE END CAP
		PIPE TURNING DOWN OR AWAY
		PIPE TURNING UP OR TOWARD
		PIPE TURNING DOWN OR AWAY (TEE)
		REDUCER (NOT TYPICALLY SHOWN)
		PIPE CONNECTION
		PIPE ANCHOR (NOT ALWAYS SHOWN, SEE SPECIFICATIONS)
		PIPE ALIGNMENT GUIDES (NOT ALWAYS SHOWN. SEE SPECIFICATIONS)
	HB	HOSE BIBB
	WH/NFWH	WALL HYDRANT or NON-FREEZE WALL HYDRANT
	CO/WCO	CLEANOUT or WALL CLEANOUT
	FCO/SCO	FLUSH CLEANOUT or SURFACE CLEANOUT
	FDC	FIRE DEPARTMENT CONNECTION
		FIRE SPRINKLER ALARM GONG
	AD	AREA DRAIN
	FD or FFD	FLOOR DRAIN or FUNNEL FLOOR DRAIN
	FS	FLOOR SINK
	OD	OVERFLOW DRAIN
	RD	ROOF DRAIN
		SHUTOFF VALVE (AS SPECIFIED FOR PIPING SYSTEM)
	BV	BALL VALVE
	CKV	CHECK VALVE
	BFV	BUTTERFLY VALVE
MS	BFV	BUTTERFLY VALVE W/ MEMORY STOP
	BAL VA	BALANCING VALVE
	BSV	COMBINATION BALANCING/SHUTOFF VALVE
	ACV	2-WAY MODULATING CONTROL VALVE W/ ACTUATOR
	ACV	3-WAY MODULATING CONTROL VALVE W/ ACTUATOR
		2-POSITION CONTROL VALVE
	PRV	PRESSURE REDUCING VALVE
	RV	RELIEF VALVE
	FMS	FLOW MEASUREMENT STATION
	STR	Y-TYPE STRAINER
	GLV	GLOBE VALVE
	OSY VA	OUTSIDE SCREW AND YOKE VALVE
	EXP VA	EXPANSION VALVE
	FCV	FLOW CONTROL VALVE
		UNION
		FLANGES
		THREADED DRAIN PLUG
		MALE (GARDEN) HOSE CONNECTION WITH CAP
	TP	TEST PLUG
		SHOCK ARRESTOR
T	TH or TI	THERMOMETER (TEMPERATURE INDICATOR)
	B STR	BASKET STRAINER
P	PI	PRESSURE INDICATOR
	AAV	AUTOMATIC AIR VENT
		MANUAL AIR VENT
		PUMP (DIAGRAM)
		FLEXIBLE CONNECTOR
		INDICATES ASSEMBLY OF PIPING COMPONENTS (AS NOTED OR DIAGRAMED)

DRAWING INDEX

DWG. NO	TITLE
P0.01	PLUMBING COVER SHEET AND GENERAL INFO
P0.02	PLUMBING SPECIFICATIONS
P0.03	PLUMBING SCHEDULES
P1.01	UNDER FLOOR PLUMBING PLAN - DEMO
P1.02	FIRST FLOOR PLUMBING PLAN - DEMO
P1.03	ROOF PLUMBING PLAN - DEMO
P2.01	UNDER FLOOR PLUMBING PLAN
P2.02	FIRST FLOOR PLUMBING PLAN
P2.03	ROOF PLUMBING PLAN
P3.01	PLUMBING DETAILS

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PLUMBING COVER SHEET AND GENERAL INFORMATION

SHEET #
P0.01

DATE/ TIME PRINTED:

GENERAL PLUMBING NOTES

1. COMPLY WITH THE 2015 UNIFORM PLUMBING CODE, LOCAL CODES AND ORDINANCES & THE LOCAL AUTHORITY HAVING JURISDICTION
2. SECURE AND PAY FOR ALL FEES PERMITS ETC REQUIRED FOR THIS PROJECT
3. PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIAL REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.
4. PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP & MATERIAL FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER
5. DO NOT SCALE DRAWINGS INSTALL SYSTEMS BASED ON ACTUAL FIELD MEASUREMENTS
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS FLOORS AND CEILINGS
7. HANDICAP FIXTURES PLUMBING FIXTURES AND TRIM IN HANDICAP ACCESSIBLE AREAS SHALL COMPLY WITH ALL ADA STANDARDS AND REQUIREMENTS AS WELL AS STATE AND LOCAL CODES
8. COORDINATE EXACT LOCATION OF UTILITY SERVICES WITH THE LOCAL UTILITY SUPPLIERS AND CIVIL SITE CONTRACTOR
9. FIELD VERIFY ALL EXISTING CONDITIONS & LOCATION OF STUB-INS PRIOR TO INSTALLATION
10. IF THERE IS NOT SUFFICIENT CLEARANCE BETWEEN THE BOTTOM OF THE FLOOR SLAB AND THE TOP OF THE FOOTINGS/FOUNDATIONS TO INSTALL THE TRAPS, MOVE TRAP BEYOND EDGE OF FOOTINGS/FOUNDATIONS TO ALLOW FOR PIPE INSTALLATION NOTIFY ENGINEERS OF PROPOSED CHANGES PRIOR TO TAKING ACTION
11. SANITARY PIPING TWO INCHES (2") AND BELOW SHALL BE PITCHED AT A MINIMUM OF ONE-QUARTER INCH (1/4") PER FOOT AND PIPING FOUR INCHES (4") AND ABOVE SHALL BE PITCHED AT A MINIMUM OF ONE-EIGHTH (1/8") PER FOOT
12. COORDINATE STUB-UPS WITH GENERAL CONTRACTOR'S CONCRETE SLAB INSTALLATION PROVIDE MEANS TO CONNECT TO ABOVE GROUND PIPING & INSTALLATION OF DRAINS
13. PRESSURE TEST PIPING PRIOR TO COVERING AND SUBMIT TEST REPORT TO THE ENGINEER
14. DO NOT COVER PIPING UNTIL APPROVED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE AND THE LOCAL PLUMBING INSPECTOR
15. REFER TO CIVIL DRAINGS FOR SITE UTILITIES COORDINATE TIE-IN LOCATIONS AND INVERT ELEVATIONS WITH THE SITE UTILITY CONTRACTOR
16. INSTALL WATER PIPING BEYOND BUILDING LIMITS AT A MINIMUM OF TWELVE INCHES (12") BELOW THE FROST DEPTH BUT NOT LESS THAN 30" BELOW FINISH GRADE
17. PROVIDE WATER HAMMER ARRESTORS (SHOCK ABSORBERS) AT ALL PIPE LOCATIONS WHERE VALVE CLOSURES (SUCH AS FLUSH VALVES) MAY CAUSE WATER HAMMER OR RESULT IN EXCESSIVE PIPE VIBRATION OR MOVEMENT
18. CLEANOUTS PLUMBING CLEANOUT LOCATIONS ARE NOT ALWAYS ESTABLISHED ON THE PLUMBING PLANS IN ORDER TO GIVE THE PLUMBER FLEXIBILITY TO LOCATE PLUMBING CLEANOUTS IN THE MOST ACCESSIBLE AREAS AS A MINIMUM, PROVIDE CLEANOUTS AS REQUIRED BY THE UNIFORM PLUMBING CODE CLEANOUTS THAT MUST BE INSTALLED IN PIPES THAT ARE DIFFICULT TO ACCESS SHALL BE EITHER WALL OR FLOOR CLEANOUTS SERVICED FROM THE FLOOR ABOVE FLOOR CLEANOUTS SHALL BE LOCATED SO AS TO BE SERVICED FROM CORRIDORS TOILET OR JANITOR ROOMS WHEREVER POSSIBLE
19. TRAP PRIMER LINE TO EACH FLOOR DRAIN (FD) & FUNNEL DRAIN SHALL BE ONE-HALF INCH (1/2") IN SIZE.
20. DRAINAGE PIPING SHALL BE PROTECTED FROM CONCRETE USING 10 MIL PLUMBERS TAPE
21. FUNNEL DRAINS LOCATED IN MANUFACTURING AREAS SHALL BE INSTALLED WITH FUNNEL OPENINGS MOUNTED A MINIMUM OF SIX (6") INCHES ABOVE FINISH FLOOR
22. SUPPORT HORIZONTAL LINES OF COPPER TUBING WITH HANGERS SPACED NOT MORE THAN 6 FEET CENTER TO CENTER FOR ALL PIPE SIZES ALL PIPES SHALL BE SUPPORTED AT ELBOWS, BRANCHES AND RISERS
23. SUPPORT HORIZONTAL CAST IRON SOIL PIPE WITH HANGER OR PIER TWO FOR EACH 5 FOOT PIPE LENGTH LOCATE SUPPORT CLOSE TO JOINTS EXCEPT PIPE EXCEEDING 5 FEET IN LENGTH SHALL BE SUPPORTED AT NO MORE THAN 5 FOOT INTERVALS SUPPORTS SHALL BE LOCATED ON BOTH SIDES OF ALL JOINTS AND WITHIN 6" OF THE JOINT
24. PIPING IN FINISHED AREAS SHALL BE CONCEALED
25. ALL PLUMBING PIPING SHALL BE FIRE STOPPED AT PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS
26. ISOLATION OR SERVICE SHUT-OFF VALVES SHALL BE INSTALLED ON ALL PIPING TO ALL EQUIPMENT
27. PROVIDE HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING FOR ALL POINT-OF-USE WATER HEATERS PER CURRENT WSEC C404 4
28. PRESSURE RELIEF VALVES SHALL BE INSTALLED AT POINTS REQUIRED BY CODE AND WHERE REQUIRED FOR PROTECTION OF EQUIPMENT AND PIPING
29. ISOLATION VALVES SHALL BE EASILY ACCESSIBLE SUPPLY ACCESS HATCHES WHERE REQUIRED
30. INSTALL AIR ELIMINATORS AT HIGH POINTS IN THE PLUMBING SYSTEM WHERE NO FIXTURE IS AVAILABLE TO VENT TRAPPED AIR IN THE CW, HW OR HWR PIPE SYSTEMS TACO HYVENT OR EQUAL. PROVIDE DROP PAN UNDER EACH
31. UNIONS INSTALL AT POINTS NECESSARY TO DISCONNECT PIPING FOR REPAIRS AND MAINTENANCE INSTALL VALVES AND UNIONS AT CONNECTIONS TO TANKS AND EQUIPMENT MAKE CONNECTIONS BETWEEN PIPES OF DISSIMILAR METALS WITH INSULATING UNIONS
32. NIPPLES CLOSE NIPPLES ARE NOT PERMITTED FOR SHORT PIPE CONNECTIONS USE STANDARD SHORT NIPPLES OR BUSHINGS SO THAT DISASSEMBLY EASILY OCCUR
33. ALL PLUMBING FIXTURES SHALL BE TRAPPED AND VENTED PER 2015 UPC
34. GROUP ADJACENT VENTS AS ALLOWED BY CODE IN CEILING SPACE TO MINIMIZE ROOF PENETRATIONS
35. COMMISSIONING HOT WATER SUPPLY SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE WITH C408 4 IN CURRENT WSEC

SPECIFICATIONS

DIVISION 22 - PLUMBING

DOMESTIC WATER AND DRAINAGE

A. PIPING SYSTEMS

ALL PIPING, VALVES, SOLDER, SEALANTS, PUMPS AND ACCESSORIES THAT ARE PART OF THE DOMESTIC WATER SYSTEM SHALL COMPLY WITH NSF-61

DOMESTIC WATER PIPING TYPE L COPPER WATER TUBE, HARD DRAWN, ASTM B 88 WROUGHT COPPER SOLDER FITTINGS AND SCREWED ADAPTERS, ANSI B16 22 J SOLDER, 95 PERCENT TIN 5 PERCENT ANTIMONY SOLDER, ASTM B 32, 95TA PEX UPONOR OR EQUAL ON 1"Ø OR SMALLER AS APPROVED ALTERNATE.

SMALL VALVES BALL VALVES FED SPEC WW-V-35, 250-PSIG BRONZE OR BRASS BODY, BALL AND STEM, SOLDER ENDS OR SCREWED TEFLON SEAT AND SEAL CHECK VALVES AND OTHER VALVES SHALL BE OF EQUAL QUALITY AND SAME MANUFACTURER OF BALL VALVES, AND SHALL HAVE NOT LESS THAN 125-PSIG RATING GATE VALVES (ALLOWED ONLY WHERE INDICATED) MSS SP80, 125-PSIG BRONZE, SCREWED OR SOLDER END, UNION BONNET RISING STEM, SOLID BRONZE DISC.

SHUT-OFF VALVES 2-1/2" AND LARGER BUTTERFLY TYPE, FULL LUG, DUCTILE IRON BODY, 400 SERIES STAINLESS STEEL STEM, ALUMINUM BRONZE DISC, EPDM LINER AND SEALS, UPPER AND LOWER STEM BEARING, BLOWOUT PROOF STEM, EXTENDED NECK FOR MINIMUM 2" INSULATION MANUFACTURER RECOMMENDED FOR BI-DIRECTIONAL DEAD END SERVICE AT FULL RATED PRESSURE WITHOUT A DOWNSTREAM FLANGE, SIZES 2-1/2" THROUGH 4" SHALL BE LEVER OPERATED AND 200 PSI CWP; 6" THROUGH 12" SHALL BE GEAR OPERATED AND 200 PSI CWP, 14" AND LARGER SHALL BE GEAR OPERATED AND 150 PSI CWP

CHECK VALVES IN COPPER TUBING BRONZE BODY AND DISC SOLDERED JOINT END CONNECTIONS, HORIZONTAL SWING CHECK, SCREWED CAP, 125 WSP, 200 WOG

RECIRCULATION LOOP BALANCING VALVE B&G RS-1/2S

PRESSURE RELIEF VALVE WATTS OR EQUAL

AIR ELIMINATORS TACO HYVENT OR EQUAL

HOSE BIBBS: BRONZE BODY AND REPLACEABLE SEAT WITH NPS ¾ THREADED OR SOLDER-JOINT INLET AND GARDEN HOSE THREADED OUTLET ASME B1.20.7 PRESSURE RATED AT 125 PSIG WITH NONREMOVABLE INTEGRAL VACUUM BREAKER COMPLYING WITH ASSE 1011 PROVIDE WHEEL HANDLE OR KEY AND FINISH APPROPRIATE FOR AREA INSTALLED WOODFORD MODEL 24 OR EQUAL.

WALL HYDRANTS CONCEALED WITH COVER BRONZE BODY AND REPLACEABLE SEAT WITH NPS ¾ THREADED OR SOLDER-JOINT INLET AND GARDEN HOSE THREADED OUTLET, ASME B1 20 7 PRESSURE RATED AT 125 PSIG WITH NONREMOVABLE INTEGRAL VACUUM BREAKER COMPLYING WITH ASSE 1011 PROVIDE LOOSE KEY AND FINISH APPROPRIATE FOR AREA INSTALLED WOODFORD MODEL 74 OR EQUAL.

PRESSURE GAGES LIQUID-FILLED 4-1/2-INCH DIAMETER BRONZE CASE, BOURBON TUBE PRESSURE ELEMENT, WITH MECHANICAL LINKAGE TO POINTER WITH GRADE A PLUS OR MINUS 1 PERCENT OF MIDDLE HALF SCALE ACCURACY VACUUM-PRESSURE RANGE - 30-INCH HG VACUUM TO 15 PSIG PRESSURE PRESSURE RANGE - TWO TIMES OPERATING PRESSURE, PSIG OR INCHES MERCURY VACUUM/APPLICATION TRERICE OR EQUAL.

TEST PLUGS CORROSION-RESISTANT BRASS OR STAINLESS-STEEL BODY WITH CORE INSERTS AND GASKETED AND THREADED CAP WITH EXTENDED STEM BEYOND INSULATION FOR UNITS TO BE INSTALLED IN INSULATED PIPING MINIMUM PRESSURE AND TEMPERATURE RATING 500 PSIG AT 200 DEG F CORE INSERTS ONE OR TWO SELF-SEALING NEOPRENE VALVES WITH GASKETED ORIFICE SUITABLE FOR INSERTING A 1/8" OD PROBE ASSEMBLY INSERT MATERIAL FOR AIR, WATER, OIL, OR GAS SERVICE AT 20 TO 200 DEG F SHALL BE CR INSERT MATERIAL FOR AIR OR WATER SERVICE AT MINUS 30 TO PLUS 275 DEG F SHALL BE EPDM. TRERICE OR EQUAL.

THERMOMETERS ADJUSTABLE ANGLE DIRECT-MOUNTING BIMETALLIC-ACTUATED DIAL WITH HIGHLY POLISHED HERMETICALLY SEALED STAINLESS STEEL, FIVE-INCH DIAMETER CASE. ACCURACY SHALL BE PLUS OR MINUS ONE SCALE DIVISION TO MAXIMUM OF 1 5 PERCENT OF RANGE SCALE SHALL BE DEGREES FAHRENHEIT IN THE FOLLOWING GENERAL RANGES (TRERICE OR EQUAL)

SERVICE RANGE
- DOMESTIC HOT WATER 0-250
- DOMESTIC COLD WATER 30-130
- NON-POTABLE HOT WATER 0-250
- NON-POTABLE COLD WATER 30-130

VENT CAPS FOUR POUND SHEET LEAD FLASHING AND COUNTER-FLASHING NOT LESS THAN 16" SQUARE COUNTERFLASHING SHALL TURN DOWN INSIDE THE VENT NO LESS THAN 1"

VACUUM BREAKERS (WHERE REQUIRED LOCATED BY CONTRACTOR)
1. ANTI-SIPHON BRASS BODY AND INTERNAL TRIM WATTS NO LF288A OR EQUAL
2. ANTI-SIPHON PRESSURE TYPE WATTS 800 SERIES OR EQUAL.

PIPING EXPANSION JOINTS

FLEXIBLE-HOSE EXPANSION JOINTS FOR COPPER PIPING COPPER-ALLOY FITTINGS WITH SOLDER- JOINT END CONNECTIONS
NPS 2 AND SMALLER BRONZE HOSES AND SINGLE-BRAID BRONZE SHEATHS WITH 450 PSIG AT 70 DEG F AND 340 PSIG AT 450 DEG F RATINGS
NPS 2-1/2 TO NPS 4 STAINLESS-STEEL HOSES AND SINGLE-BRAID STAINLESS-STEEL SHEATHS WITH 300 PSIG AT 70 DEG F AND 225 PSIG AT 450 DEG F RATINGS

FLEXIBLE-HOSE EXPANSION JOINTS FOR STEEL PIPING CARBON-STEEL FITTINGS WITH THREADED END CONNECTIONS FOR NPS 2 AND SMALLER AND FLANGED OR WELD END CONNECTIONS FOR NPS 2-1/2 AND LARGER
NPS 2 AND SMALLER STAINLESS-STEEL HOSES AND SINGLE-BRAID, STAINLESS-STEEL SHEATHS WITH 450 PSIG AT 70 DEG F AND 325 PSIG AT 600 DEG F RATINGS
NPS 2-1/2 TO NPS 6 STAINLESS-STEEL HOSES AND SINGLE-BRAID STAINLESS-STEEL SHEATHS WITH 200 PSIG AT 70 DEG F AND 145 PSIG AT 600 DEG F RATINGS
NPS 8 TO NPS 12: STAINLESS-STEEL HOSES AND SINGLE-BRAID STAINLESS-STEEL SHEATHS WITH 125 PSIG AT 70 DEG F AND 90 PSIG AT 600 DEG F RATINGS
METRAFLEX OR EQUAL

ROOF DRAIN, WASTE AND VENT PIPING ASTM A74 STANDARD WEIGHT HUBLESS CAST IRON PIPE, CISPI 301 COUPLINGS, NEOPRENE SLEEVE GASKET STAINLESS STEEL SHIELD AND BANDS FITTINGS SHALL BE STANDARD WEIGHT CAST IRON SOIL PIPE FITTINGS, ANSI A112 5 1 AND ASTM A74 HUBLESS CAST IRON FITTINGS, CISPI 301

ALTERNATIVE WASTE AND VENT PIPING AT CONTRACTOR'S OPTION TO BE VERIFIED WITH OWNER, POLYVINYL CHLORIDE (PVC), ASTM D 2665 OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS), ASTM D 2661 PIPE AND FITTINGS MAY BE SUBSTITUTED FOR CAST IRON WASTE AND VENT PIPING IF PLASTIC PIPE IS SUBSTITUTED, CONTRACTOR SHALL PROVIDE ALL NECESSARY ADAPTERS TO ACCOMMODATE SPECIFIED PIPING SPECIALTIES, ACCESSORIES FIXTURE SUPPORTS, AND DRAINS PLASTIC PIPING SHALL NOT BE USED AS WASTE OR ROOF DRAIN PIPING MORE THAN 3 FEET ABOVE THE SLAB-ON-GRADE FLOOR

PLUMBING ACCESSORIES AND EQUIPMENT

REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLIES REDUCED PRESSURE TYPE BACK-FLOW PREVENTER; 3/4" TO 2" SIZE, BRONZE CONSTRUCTION WITH ISOLATING BALL VALVES, STRAINER AND AIR GAP DRAIN FITTING HERSEY MODEL FRPII, WATTS 909 SERIES OR APPROVED EQUIVALENT. PROVIDE CERTIFICATION OF BACKFLOW PREVENTER BY STATE CERTIFIED SPECIALIST, INCLUDE WITH MAINTENANCE MANUALS

PRESSURE REDUCING VALVES 2 INCH AND SMALLER, COMPLETE WITH INTEGRAL STRAINER, PRESSURE GAUGE, AND INTEGRAL THERMAL EXPANSION BY-PASS, BRONZE CONSTRUCTION WITH STAINLESS STEEL STRAINER. WATTS NO U5B OR EQUIVALENT

WATER HAMMER ARRESTORS COPPER TUBE WITH PISTON PER ASSE 1010 SIOUX CHIEF MANUFACTURING OR EQUAL

TRAP PRIMERS

MECHANICAL TRAP PRIMERS-INTERMITTENT WATER FLOW TYPE TPV-X ADJUSTABLE-TYPE AUTOMATIC TRAP SEAL PRIMER VALVE CAST BRONZE BODY 1/2" COPPER SWEAT CONNECTIONS OR UNION CONNECTIONS MANUFACTURER JOSAM 88250, WADE FIG W2400, SMITH FIG 2699 OR MIFAB MI-TSP-2

ROOF DRAINS SMITH 1010 DUCO CAST IRON BODY FLASHING CLAMP AND GRAVEL STOP POLYETHYLENE DOME PROVIDE COLLAR TYPE 2" HIGH WATER DAM FOR OVERFLOW ROOF DRAINS

FLOOR CLEANOUTS FLOOR CLEANOUTS SHALL HAVE CAST IRON BODY AND FRAME WITH SQUARE ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP UNIT SHALL BE VERTICALLY ADJUSTABLE FOR A MINIMUM OF 2" WHEN A WATERPROOF MEMBRANE IS USED IN THE FLOOR SYSTEM PROVIDE CLAMPING COLLARS ON THE CLEANOUTS CLEANOUTS SHALL CONSIST OF "Y" FITTINGS AND 1/8 BENDS WITH BRASS OR BRONZE SCREW PLUGS CLEANOUTS IN RESILIENT TILE FLOORS, QUARRY TILE AND CERAMIC TILE FLOORS SHALL BE PROVIDED WITH SQUARE TOP COVERS RECESSED FOR TILE INSERTION IN CARPETED AREAS, PROVIDE CARPET CLEANOUT MARKERS

DOWNSPOUT NOZZLES BRONZE BODY WITH WALL FLANGE AND EITHER CAST BRONZE, POLISHED BRONZE OR NICKEL BRONZE FINISH AS NEEDED JR SMITH FIG 1770 OR EQUAL

STRAINERS: 2-1/2 INCHES AND SMALLER, BRONZE, Y-PATTERN, THREADED ENDS 20-MESH STAINLESS STEEL SCREEN 250 PSI AT 210 F

FLOOR DRAINS SMITH 2005, DOUBLE DRAINAGE, ADJUSTABLE STRAINER HEAD FLOOR DRAIN, DUCO COATED CAST IRON BODY, FLASHING COLLAR NICKEL BRONZE STRAINER WITH 1/4" HOLES PROVIDE SQUARE STRAINER IN AREAS WITH TILE FLOORS AND ROUND STRAINERS IN OTHER LOCATIONS WHERE FUNNEL DRAINS ARE INDICATED, ADD SMITH 3590 ROUGH BRONZE FUNNEL. REMOVE STRAINER WITHIN FUNNEL, AS REQUIRED, TO ELIMINATE SPLASHING

ESCUTCHEONS FOR PLUMBING PIPES INSTALL CHROME PLATED ESCUTCHEONS WHERE EXPOSED PIPING PASSES THROUGH FLOORS, CEILINGS AND WALLS PLATES PROVIDED FOR PIPES PASSING THROUGH SLEEVES THAT EXTEND ABOVE THE FLOOR SURFACE SHALL BE DEEP AND RECESSED TO CONCEAL PIPE SLEEVES

EQUIPMENT, GENERAL PROVIDE ALL EQUIPMENT CONSISTENT WITH THE CAPACITY MANUFACTURER MODEL NUMBER, AND ACCESSORIES AS SPECIFIED OR INDICATED ON THE DRAWING SCHEDULES AND NOTES EQUIPMENT SUPPLIERS SHALL VERIFY THAT MODEL NUMBERS ARE CONSISTENT WITH CAPACITY, FEATURES AND ACCESSORIES CALLED FOR AND IDENTIFY ANY CONFLICTS PRIOR TO SUBMITTING QUOTATIONS TO CONTRACTORS ALL EQUIPMENT WITH ELECTRICAL COMPONENTS SHALL HAVE UL LISTING AS REQUIRED BY THE ELECTRICAL INSPECTOR ALTERNATE MANUFACTURERS WILL BE CONSIDERED HOWEVER, A/E FINAL APPROVAL OF EQUALITY OF ALTERNATE MANUFACTURER MODELS IS REQUIRED ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE BELL AND GOSSETT, AMTROL TACO AO SMITH, STATE, OR AS INDICATED OR PRIOR-APPROVED OTHERWISE ALTERNATE MANUFACTURERS WITH PRIOR APPROVAL ARE STILL RESPONSIBLE FOR MEETING OR EXCEEDING THE QUALITY AND FEATURES OF THE SPECIFIED ITEMS

PLUMBING FIXTURES

A. PLUMBING FIXTURE ACCESSORIES

FIXTURE CARRIERS PROVIDE CAST IRON OR STEEL CARRIERS FOR ALL WALL-HUNG FIXTURES WITH CONCEALED FIXTURE CARRIERS CONSTRUCTED FOR THE PARTICULAR FIXTURE, HEAVY DUTY CONSTRUCTION WITH SECURE ANCHORING TO CONCRETE FLOOR SMITH, WADE, ZURN, OR APPROVED BACK LUG OF WATER CLOSET CARRIERS SHALL BE ANCHORED TO FLOOR WHERE FLOOR CONSTRUCTION IS WOOD, CARRIERS SHALL BE DESIGNED TO BE BRACED TO THE WALL FRAMING FOR ADDED RIGIDITY

DRAINS AND TRAPS PROVIDE GRID STRAINER DRAINS FOR ALL LAVATORIES UNLESS INDICATED OTHERWISE. PROVIDE BASKET STRAINER DRAINS FOR ALL SINKS UNLESS INDICATED OTHERWISE. PROVIDE TRAPS AND TAILPIECES AT ALL FIXTURES UNLESS TRAP IS INTEGRAL WITH FIXTURE

STOPS. PROVIDE CHROME STOPS AT EACH WATER CONNECTION TO EACH FIXTURE, EXCEPT WHERE A FAUCET OR CONTROL HAS INTEGRAL STOPS STOPS SHALL BE A LOOSE KEY PATTERN WITH SHIELD CHICAGO BRIDGEPORT BRASS, BRASS CRAFT (SPEEDWAY), TELEDYNE, OR EQUIVALENT

CAULKING PROVIDE SILICONE SEALER BETWEEN THE TOP AND THE SIDES OF PLUMBING FIXTURES AND ADJACENT WALL SURFACES GENERAL ELECTRIC NO SCS/202 APPLY PER MANUFACTURER'S RECOMMENDATIONS TO FORM A SMOOTH, UNOBTRUSIVE JOINT

EXPOSED PLUMBING IN GENERAL, ALL PIPING SHALL BE CONCEALED UNLESS INDICATED OTHERWISE ANY PIPING THAT MUST BE EXPOSED WITHIN CABINETS OR OTHERWISE, DUE TO CONNECTIONS REQUIRED FOR FIXTURES AND EQUIPMENT SHALL BE PAINTED SILVER ALL EXPOSED ITEMS INCLUDING STOPS TRAPS ETC. SHALL BE CHROME PLATED

B PLUMBING FIXTURES

GENERAL PROVIDE THE PLUMBING FIXTURES AS INDICATED ON THE DRAWINGS PROVIDE THE MANUFACTURER AND MODEL NUMBERS AS INDICATED; HOWEVER CONTRACTOR SHALL VERIFY MODEL NUMBERS OF FIXTURES FLUSH VALVES FAUCETS ETC., FIT TOGETHER PROPERLY ALTERNATE MANUFACTURERS WILL BE CONSIDERED, HOWEVER, A/E FINAL APPROVAL OF EQUALITY OF ALTERNATE MANUFACTURER MODELS IS REQUIRED ACCEPTABLE ALTERNATE FIXTURE MANUFACTURERS INCLUDE KOHLER, AMERICAN STANDARD ELJER ELKAY, JUST OR AS INDICATED OR PRIOR APPROVED OTHERWISE ALTERNATE MANUFACTURERS WITH PRIOR APPROVAL ARE STILL RESPONSIBLE FOR MEETING OR EXCEEDING THE QUALITY AND FEATURES OF THE SPECIFIED ITEMS

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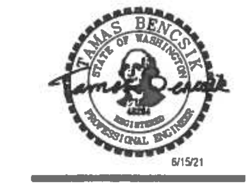

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PLUMBING SPECIFICATIONS

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DOMESTIC WATER HEATER SCHEDULE (ELECTRIC)

MARK	SERVICE	LOCATION	TYPE	CAPACITY GAL	EWT F	LWT F	ELECTRICAL KW	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL FLA	ELECTRICAL DISC[1]	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL	BASIS OF DESIGN WEIGHT LBS	REMARKS
WH-1	DOMESTIC HW	-	TANK	119	50	120	18	480	3	21 7	NO	AO SMITH	DVE-52-18	1342	1-6

NOTES

1. YES = DISCONNECT PROVIDED BY MANUFACTURER; NO = DISCONNECT PROVIDED BY ELECTRICAL
2. PROVIDE EXPANSION TANK, ET-1
3. INSTALL WATER HEATER ON R-10 INCOMPRESSIBLE INSULATION
4. TEMPERATURE CONTROL RANGE SHALL BE CAPABLE OF 90F - 120F
5. PROVIDE SEISMIC RESTRAINT CALCULATIONS AND ANCHOR DETAILS AS A DEFERRED SUBMITTAL FOR ALL EQUIPMENT OVER 400 LBS
6. WATER HEATER SHALL MEET WASHINGTON STATE ENERGY CODE AND THE THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF THE US DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA90 1

EXPANSION TANK SCHEDULE

TAG	LOCATION RM NAME	SERVICE	TYPE	VOLUME (GAL)	ACCEPTANCE (GAL)	SIZE HxØ (IN)	WEIGHT EMPTY (LBS)	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	NOTES
ET-1	-	DOMESTIC HW	DIAPHRAM	6 4	0 5	18x12	26	AMTROL	ST-12-C	

PUMP SCHEDULE

UNIT NO	SERVICE	LOCATION	CAPACITY GPM	CAPACITY FT HD	CAPACITY MIN EFF	BHP @ DUTY POINT	MOTOR WATTS	MOTOR RPM	MOTOR VOLTS	MOTOR PH	MOTOR VFD?	POWER TYPE	PUMP SUCTION / DISCHARGE SIZE	PUMP	WEIGHT	NOTES
CP-1	HOT WATER RECIRC	MECH	2 9	4	-	-	25	-	120	1	N	E	1/2"	GRUNDFOS UP 15-10B7	6	1

NOTES

1. PROVIDE BALANCING VALVE

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	FLOW RATE	SERVICE PIPE SIZE WASTE	SERVICE PIPE SIZE VENT	SERVICE PIPE SIZE CW	SERVICE PIPE SIZE HW	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS	NOTES
L-1	LAVATORY-WALL HUNG-ACCESSIBLE	-	2	1-1/2	-	-	AMERICAN STANDARD	LUCERNE 0355 027	21x18 WALL HUNG VITREOUS CHINA MOUNT AT 34" A F F FOR ADA COMPLIANCE 4" CENTERSET W/ GRID DRAIN	1 A aa
	FAUCET (UA AND PATIENT TOILETS)	0 5 GPM		-	-	-	SYMMONS	SLS-7000	SINGLE SUPPLY MIXED TEMP AT FAUCET	
	MIXING VALVE	0 5 GPM	-	-	1/2	1/2	CHICAGO	242 165 00 1	CONCEALED MECHANICAL MIXING VALVE W/ 1/2" TEMPERED WATER LINE FROM OUTLET TO FAUCET	
	FAUCET (CHILD WATCH AND STAFF TOILETS)	0 5 GPM	-	-	-	-	SYMMONS	SLC-9612	DECK MOUNTED 4" CENTERS GRID DRAIN TWO HANDLE	
S-1	SINGLE BOWL UNDERMOUNTED SINK		2	1-1/2	-	-	ELKAY	ELUH1316DBG	SINGLE BOWL UNDERMOUNT 18 GAUGE STAINLESS STEEL 16"x18 5"x7 87" REAR CENTER DRAIN UNDERMOUNT BRACKETS	1 A aa
	FAUCET	1 5 GPM	-	-	1/2	1/2	CHICAGO	895-317GN2AE35ABCP	DECK MOUNTED 4" CENTERS 5-1/2" GOOSE NECK 4" WRISTBLADE HANDLES	
S-2	SINGLE BOWL UNDERMOUNTED SINK		2	1-1/2	-	-	ELKAY	ELUH2115DBG	SINGLE BOWL UNDERMOUNT 18 GAUGE STAINLESS STEEL 23 5"x18 25"x7 5" REAR CENTER DRAIN UNDERMOUNT BRACKETS	1 A aa
	FAUCET	1 5 GPM	-	-	1/2	1/2	CHICAGO	895-317GNDFCAB	DECK MOUNTED 4" CENTERS 5-1/2" GOOSE NECK 4" WRISTBLADE HANDLES	
S-3	DOUBLE BOWL UNDERMOUNTED SINK		2	1-1/2	-	-	ELKAY	ELUH3116DBG	DOUBLE BOWL UNDERMOUNT 18 GAUGE STAINLESS STEEL 31 75"x16 5"x7 5" CENTER DRAIN UNDERMOUNT BRACKETS	1 A aa
	FAUCET	1 5 GPM	-	-	1/2	1/2	CHICAGO	895-317GN8AE35ABCP	DECK MOUNTED 4" CENTERS 8" GOOSE NECK 4" WRISTBLADE HANDLES	
WC-1	WATER CLOSET- FLOOR MOUNT-ADA	1 6/1.1 GPF	4	2	-	-	AMERICAN STANDARD		FLOOR MOUNTED TOILET, ADA	1
	FLUSH VALVE	3 5 GPF	-	-	1	-	SLOAN		SLOAN 110 BATTERY POWERED AUTOMATIC FLUSH (USE ZURN FLUSH ZERK CPM FOR AUTOFLUSH ON SLOAN VALVE)	
	SEAT	-	-	-	-	-	OLSONITE	10SSCT	OPEN FRONT, LESS COVER ELONGATED PLASTIC SELF-SUSTAINING CHECK HINGES	
WC-2	WATER CLOSET-FLOOR MOUNT - CHILD	1 6 GPF	4	2	-	-	AMERICAN STANDARD	BABY DEVORO	"BABY DEVORO" 2315 016 10" HIGH ROUND BOWL TANK/BOWL COUPLING SYSTEM WHITE COLOR MATCHED TRIP LEVER	
	FLUSH TANK	-	-	-	1	-	-			
	SEAT	-	-	-	-	-	OLSONITE	10SSCT	OPEN FRONT, LESS COVER ELONGATED PLASTIC SELF-SUSTAINING CHECK HINGES	
DF-1	WATER DISPENSOR	-	1-1/4	1-1/2	1/2	-	T&S WORKS	B-1230	DECK MOUNT WATER STATION WITH PEDESTAL TYPE GLASS FILLER 18 GAUGE STAINLESS STEEL DRIP PAN	1 aa
WB-1	WALL BOX-CLOTHES WASHER	-	2 0	1-1/2	1/2	1/2	GUY GREY	MWB-21	CENTER DRAIN 20 GAUGE STEEL W/ WHITE POWDER COAT FINISH	
ESW-1	EMERGENCY SHOWER	20 0	-	-	1	1	GUARDIAN	G1658	EMERGENCY SHOWER SEMI-CONCEALED STAINLESS STEEL SHOWER HEAD AND PIPE 1" TEMPERED SUPPLY THERMAL MIXING VALVE G6040 POLISHED CHROME PLATED BRASS CONSTRUCTION	
EEW-1	EMERGENCY EYE WASH	_	-	-	1/2	1/2	GUARDIAN	GBF1849	BARRIER FREE AUTOFLOW COUNTER MOUNTED EYEWASH G6020 THERMAL MIXING VALVE FLIP DUST COVERS 1/2" TEMPERED WATER SUPPLY	
FD-1	FLOOR DRAIN	-	SEE PLANS	SEE PLANS	-	-	JAY R SMITH	2010C-P050-U-NB	WITH TRAP PRIMER CONNECTION VANDAL PROOF SCREWS NICKLE BRONZE STRAINER	4 bb
MS-1	MOP SINK	-		1-1/2	3/4	3/4	ACORN	TCR-28	28" TERRAZZO CORNER ROUND MOP SINK PROVIDE CHICAGO FAUCET 305-VBCP WITH VACUUM BREAKER	4 cc
MXV-1	MIXING VALVE	-	-	-	1/2	1/2	WATTS	LFMMV-M1	ASSE 1070 AND UPC LISTING	

NOTES

1. COORDINATE MOUNTING HEIGHT W/ ARCH'L INTERIOR ELEVATIONS
2. LOCATE FLUSH VALVE HANDLE ON WIDE SIDE OF FIXTURE FOR ADA COMPLIANCE
3. PROVIDE CLEAN OUT ADJACENT TO EACH URINAL ABOVE HEIGHT OF TRAP
4. SEE PLANS FOR TRAP PRIMER CONNECTIONS

STRAINER TYPES

A. LAVATORY GRID TYPE (ADA) "DEARBORN" 760W
B. LAVATORY GRID TYPE "DEARBORN" 760 I
C. SINK GRID TYPE "ELKAY" LK-18
D. SINK BASKET TYPE "ELKAY" LK-99

TRAPS

aa 1-1/4"x1-1/2" 17GA "MCGUIRE" C8872
bb 4"x4"
cc 3"x3"

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P0.03

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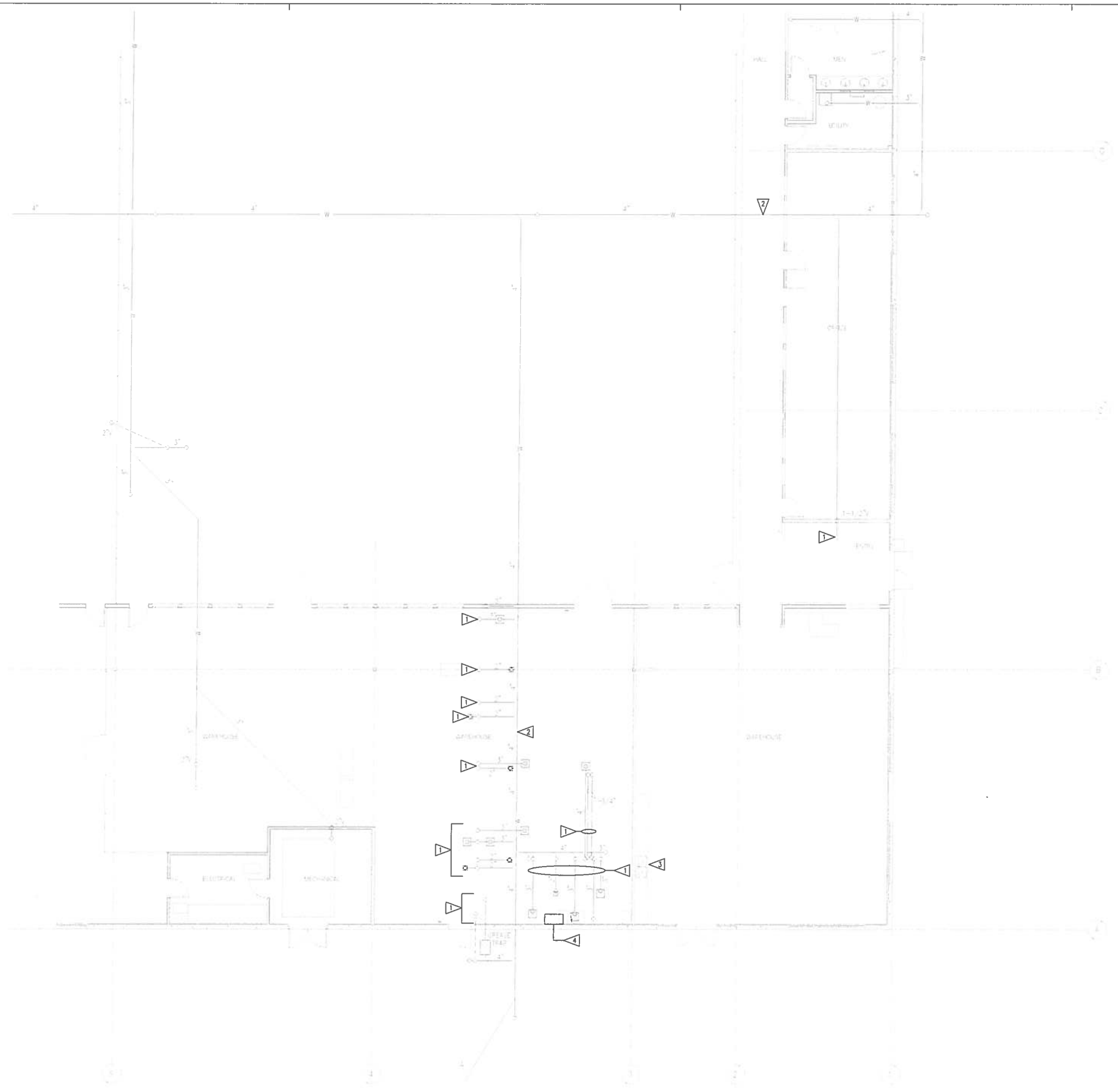

GENERAL NOTES

1. DRAWINGS ARE BASED ON AVAILABLE DRAWINGS AND SITE OBSERVATION CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS

SHEET NOTES

1. PER FIELD OBSERVATION EXISTING PIPING HAS BEEN DEMOLISHED/CAPPED BELOW FLOOR. FIELD VERIFY.
2. EXISTING MAIN TO BE USED FOR NEW WASTE SYSTEM CONNECT. FIELD VERIFY LOCATION OF EXISTING MAINS
3. EXISTING SINK TO BE DEMOLISH. CAP EXISTING WASTE PIPING BELOW FLOOR. FIELD VERIFY.
4. DISCONNECT AND SALVAGE SINK/CABINET TO BE REINSTALLED IN DIFFERENT LOCATION

1 UNDER FLOOR PLUMBING PLAN - DEMO
1/8" = 1'-0"

NORTH

1/8"=1'-0" 0 2 4 6 8 16 24

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UNDER FLOOR PLUMBING PLAN - DEMO

SHEET #
P1.01

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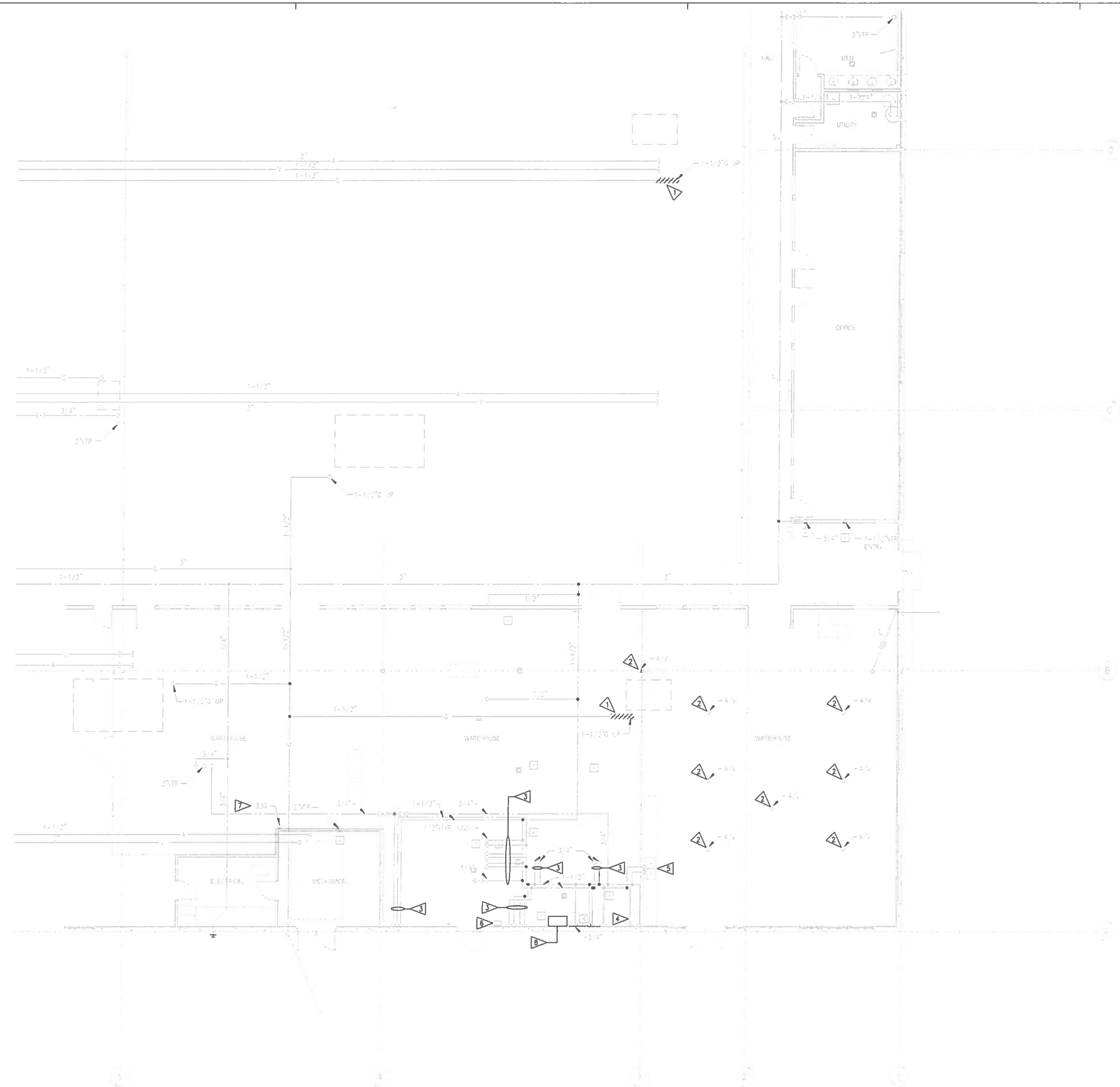

1 FIRST FLOOR PLUMBING PLAN - DEMO
1/8" = 1'-0"

1/8"=1'-0" 0 2 4 6 8 16 24

GENERAL NOTES

1. DRAWINGS ARE BASED ON AVAILABLE DRAWINGS AND SITE OBSERVATION CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS

SHEET NOTES

1. SELECTIVELY DEMOLISH EXISTING GAS PIPING SERVING ROOF TOP AIR HANDLING UNIT.
2. DEMOLISH EXISTING COMPRESSED AIR AND VACUUM DROPS LOCATED IN THIS AREA TO ABOVE CEILING. CAP PIPING ABOVE CEILING. FIELD VERIFY.
3. PER FIELD OBSERVATION, EXISTING HW/CW PIPING HAS BEEN SELECTIVELY DEMOLISHED
4. EXISTING WATER HEATER TO BE DEMOLISHED. SELECTIVELY DEMOLISH HW, CW BACK TO MAIN ABOVE CEILING. HW/CW MAIN TO BE CONNECTED TO NEW HW/CW DISTRIBUTION SYSTEM
5. EXISTING SINK TO BE DEMOLISHED. DEMOLISH EXISTING HW,CW,W &V
6. DEMOLISH EXISTING ABANDONED GAS METER AND PIPING. CAP PIPING ABOVE CEILING
7. DEMOLISH/CAP EXISTING PIPING TO ABOVE CEILING
8. DISCONNECT AND SALVAGE SINK/CABINET TO BE REINSTALLED IN DIFFERENT LOCATION

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FIRST FLOOR PLUMBING PLAN - DEMO

SHEET #
P1.02

GENERAL NOTES

1 DRAWINGS ARE BASED ON AVAILABLE DRAWINGS AND SITE OBSERVATION CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS

SHEET NOTES

1 SELECTIVELY DEMOLISH EXISTING GAS PIPING SERVING ROOF TOP AIR HANDLING UNIT

1 ROOF PLUMBING PLAN - DEMO
1/8" = 1'-0"

NORTH

1/8"=1'-0" 0 2 4 6 8 16 24

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ROOF PLUMBING PLAN - DEMO

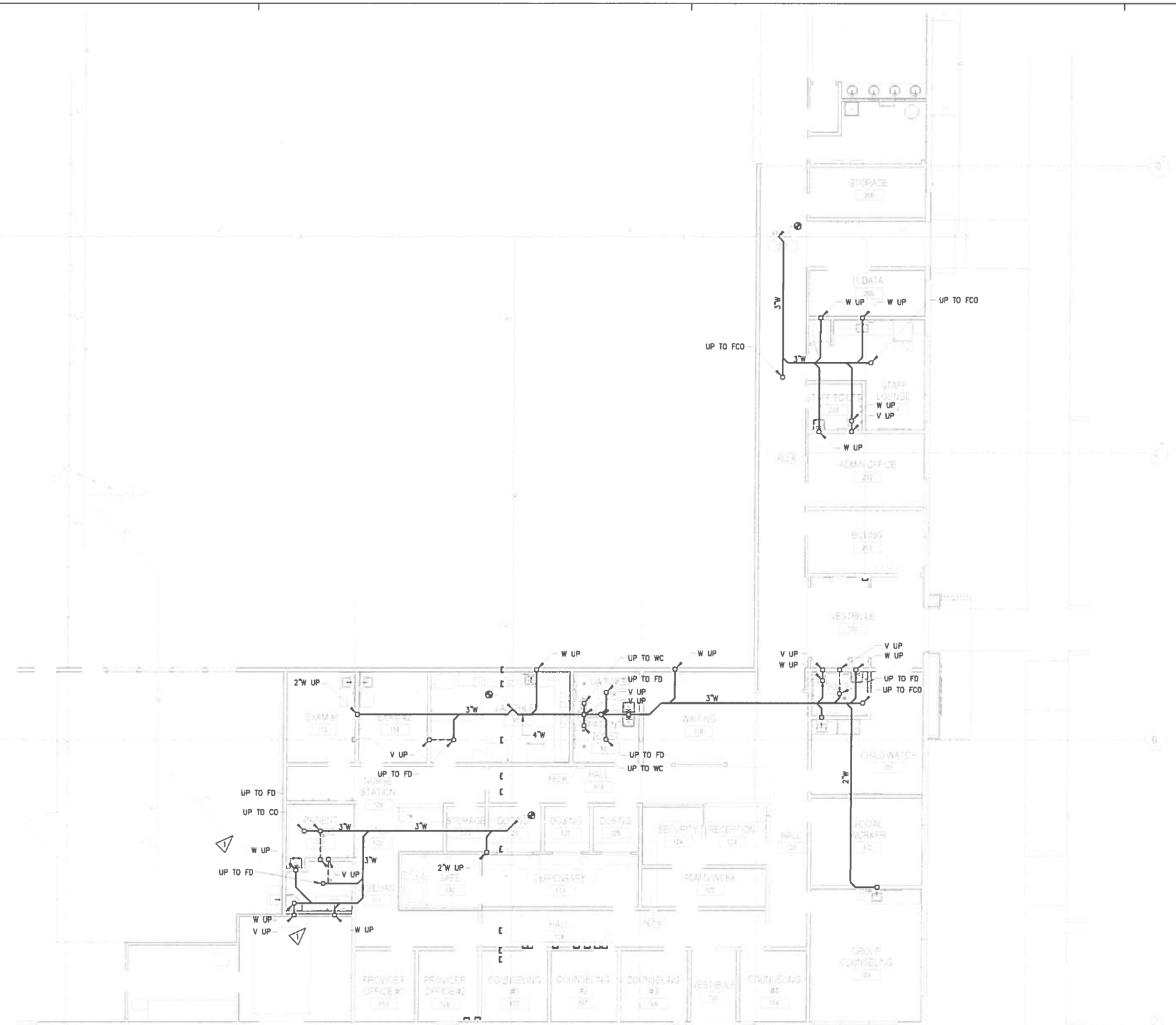
SHEET #
P1.03

GENERAL NOTES

1 DRAWINGS ARE BASED ON AVAILABLE DRAWINGS AND SITE OBSERVATION CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS

SHEET NOTES

1 EXISTING PIPING TO REMAIN IN SERVICE. FIELD VERIFY LOCATION AND COORDINATE WITH MOP SINK INSTALLATION



1 UNDER FLOOR PLUMBING PLAN
1/8" = 1'-0"

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UNDER FLOOR PLUMBING PLAN

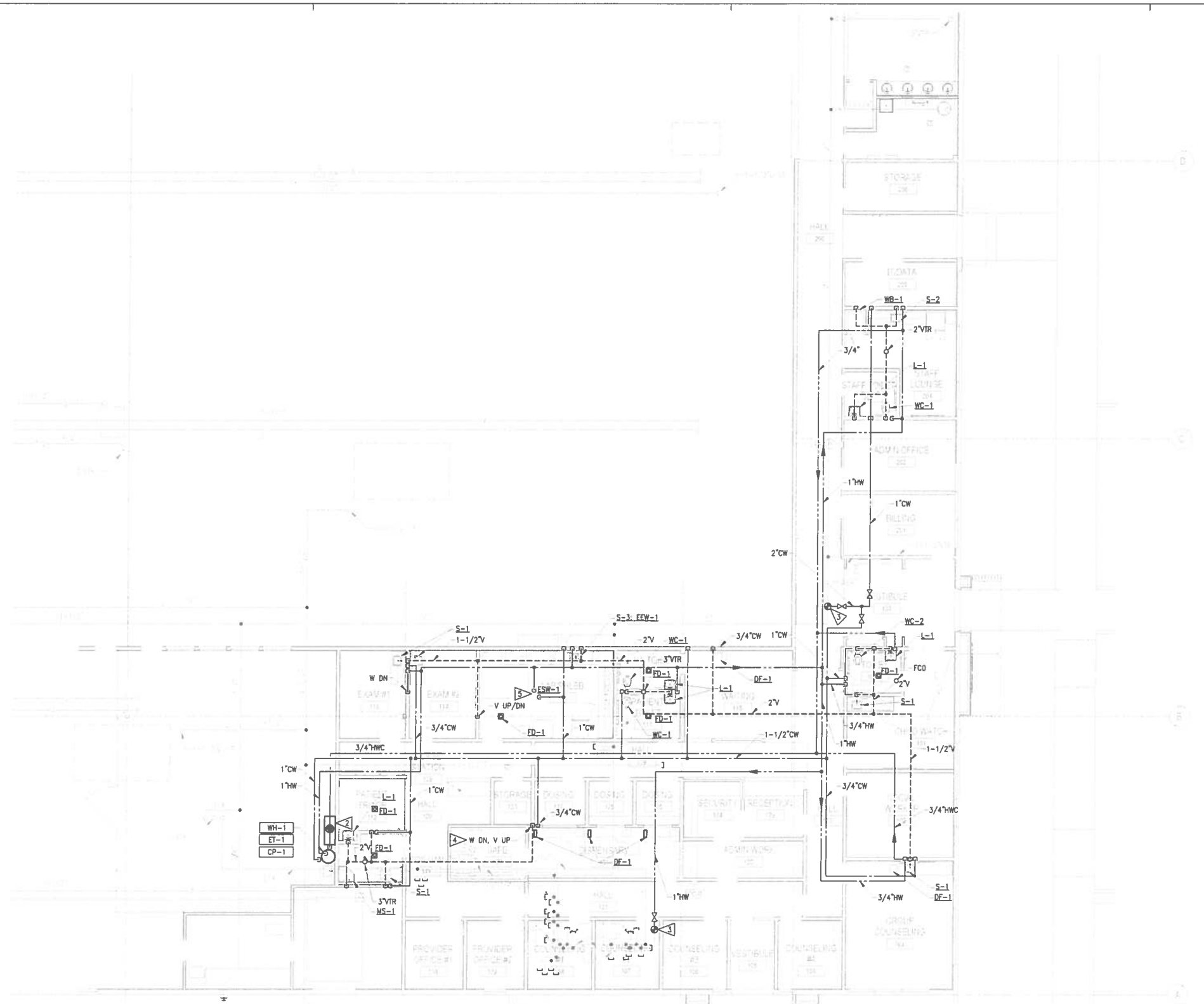
SHEET #
P2.01

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY PLUMBING ROUTING FOR NEW PIPING CONNECTIONS TO EXISTING SYSTEM
2. PROVIDE ISOLATION VALVES ON ALL CW, HW, HWC BRANCH AND EQUIPMENT CONNECTIONS
3. PROVIDE TRAP PRIMER CONNECTIONS TO ALL FLOOR SINKS, MOP SINKS AND FLOOR DRAINS

SHEET NOTES

1. ROUTE W,V CW,HW,HWC IN WALL TO FIXTURES, INCLUDING FLOOR DRAINS SEE PLUMBING FIXTURES SCHEDULE FOR CONNECTION SIZES SEE UNDERFLOOR PLAN FOR WASTE PIPING
2. REINSTALL SALVAGED SINK/CABINET PROVIDE CONNECTION TO NEW CW,HW,HWC,W,V SYSTEM
3. PROVIDE CHECK VALVE AT CONNECTION TO EXISTING CW/HW
4. ROUTE WASTE PIPING IN WALL TO WATER DISPENSORS IN DISPENSARY
5. PROVIDE CONNECTION HW/CW TO OVERHEAD EMERGENCY SHOWER ASSEMBLY



1 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

NORTH

1/8"=1'-0" 0 2 4 6 8 16 24

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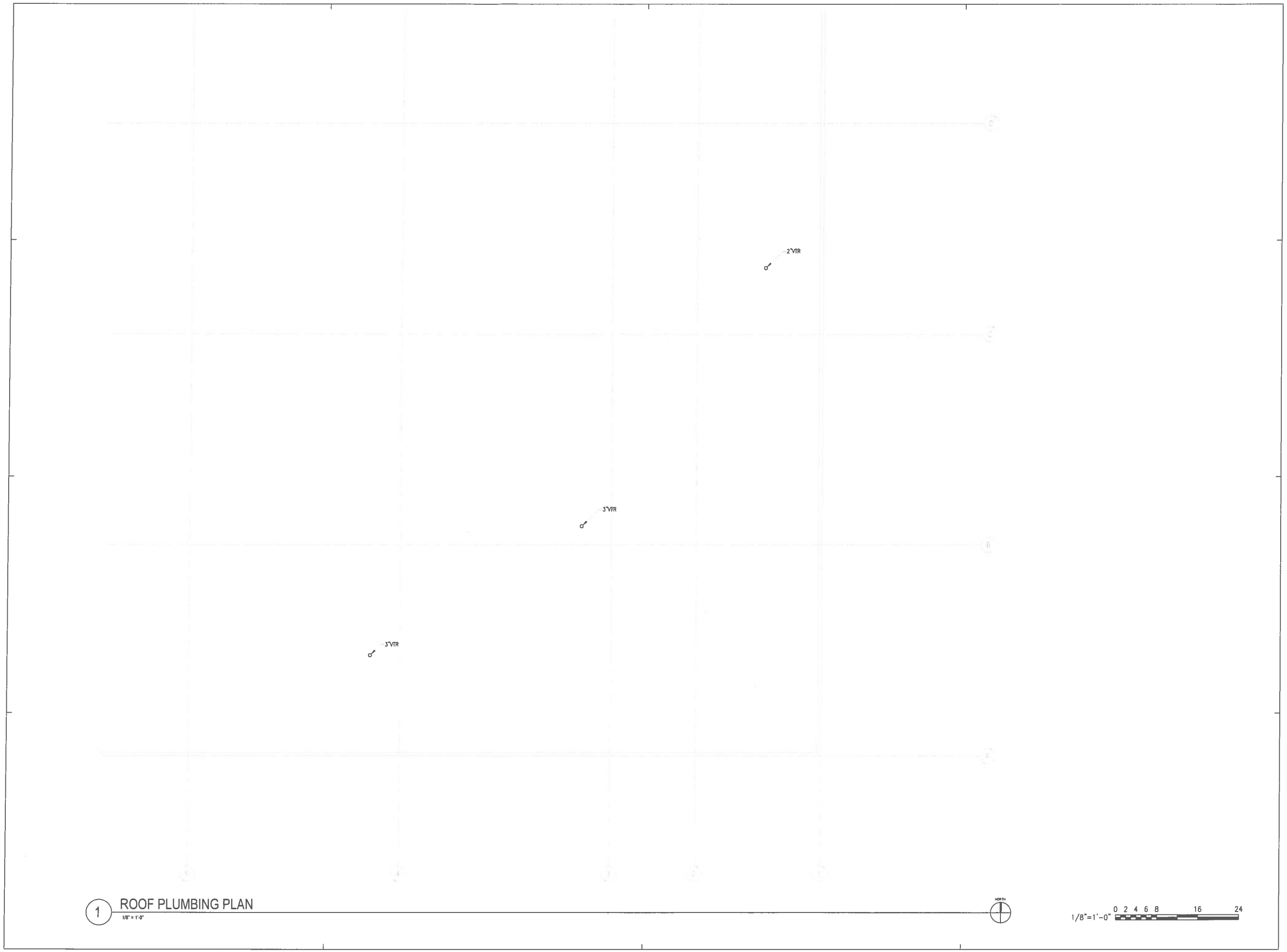
FIRST FLOOR PLUMBING PLAN

SHEET #
P2.02



1 ROOF PLUMBING PLAN
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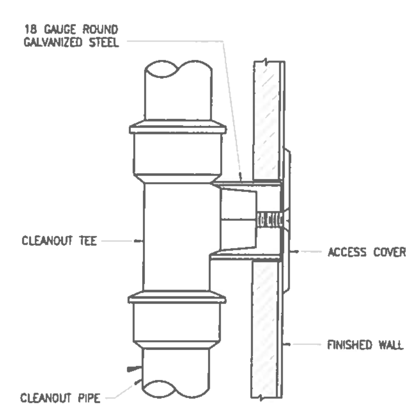
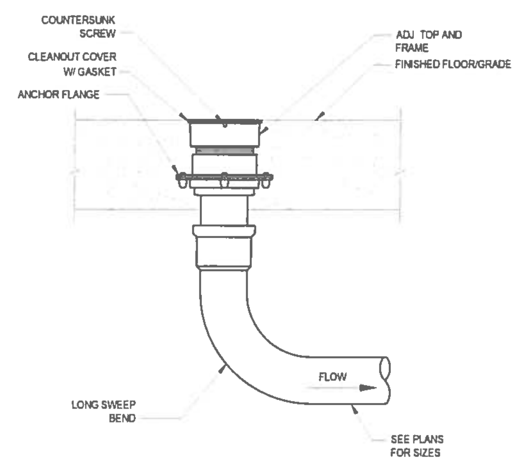
ROOF
PLUMBING PLAN

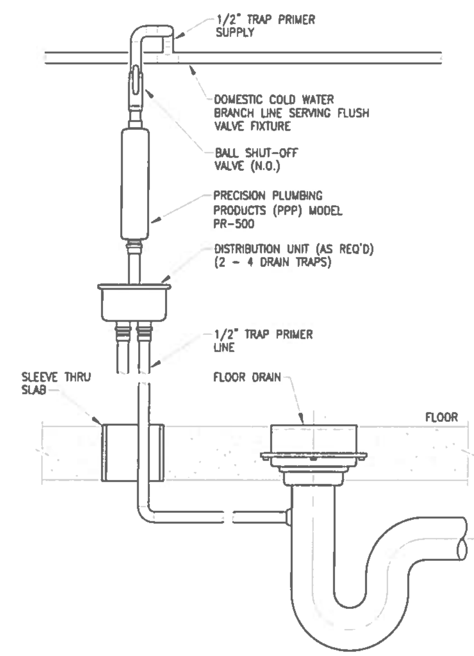
SHEET #
P2.03



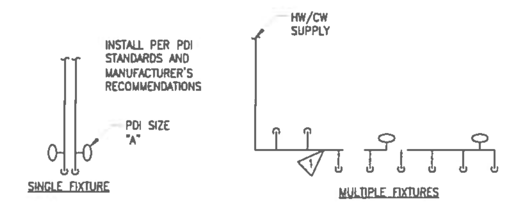
1 WALL CLEANOUT DETAIL
P3.01 SCALE: NTS



2 DRAIN CLEANOUT DETAIL
P3.01 SCALE: NTS



3 TRAP SEAL PRIMER DETAIL
P3.01 SCALE: NTS



NOTES:

1. IF HORIZONTAL BRANCH IS LESS THEN 20' LONG, INSTALL ONE WHA AT THE END OF THE LINE BETWEEN THE LAST TWO FIXTURES. IF THE HORIZONTAL BRANCH IS GREATER THAN 20' LONG, INSTALL ANOTHER WHA IN THE MIDDLE, DIVIDING THE FIXTURE UNITS BETWEEN EACH AND SIZING ACCORDINGLY.
2. PLUMBING CONTRACTOR TO PROVIDE BELOW TYPE WATER HAMMER ARRESTORS BY ZURN. ALTERNATES: MIFAB, PRECISION PLUMBING PRODUCTS, WATTS SOUX CHIEF OR APPROVED EQUIVALENT WITH NESTED TYPE BELLOWS, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.261M CERTIFICATION.
3. INSTALL IN THE VERTICAL OR HORIZONTAL POSITION, NEVER UPSIDE DOWN
4. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE.
5. SIZE THE UNITS AS SHOWN ON THE TABLES.
6. INSTALL ALTERNATES IN AN ACCESSIBLE LOCATION OR WITH ACCESS PANEL.

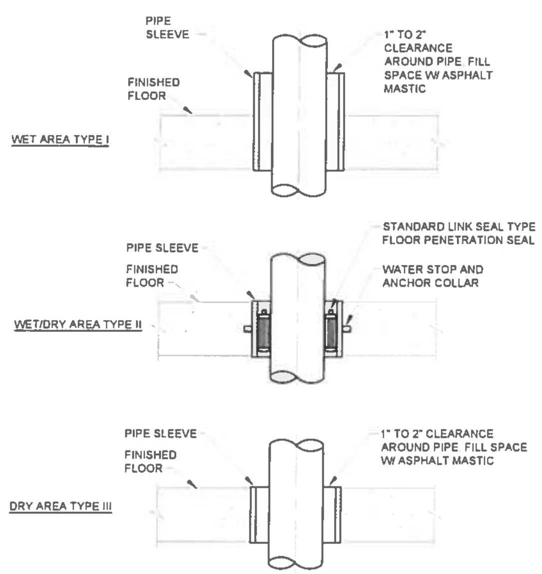
FIXTURE UNIT TABULATION

FIXTURE	COLD	HOT
WATER CLOSET - FLUSH TANK	10	--
URINAL	5	--
LAVATORY	1	1
SINK	2	2
JANITOR'S SINK	2.25	2.25
WASHING MACHINE/ICE MAKER	1	1
DISHWASHING MACHINE	2.25	2.25

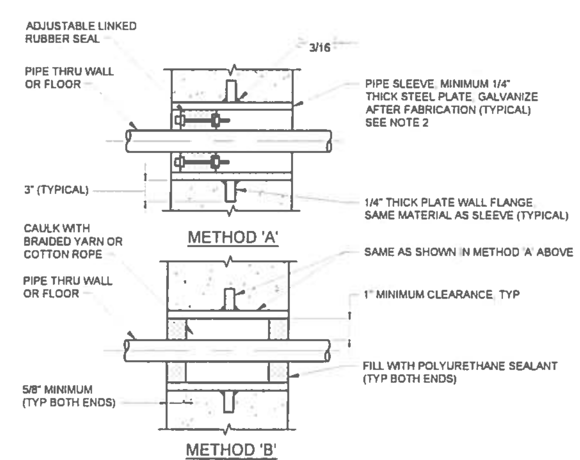
ARRESTOR SIZE TABLE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2	1-11
B	3/4	12-32
C	1	33-60
D	1-1/4	61-113
E	1-1/2	114-154
F	2	154-330

4 WATER HAMMER ARRESTOR DETAIL
P3.01 SCALE: NTS



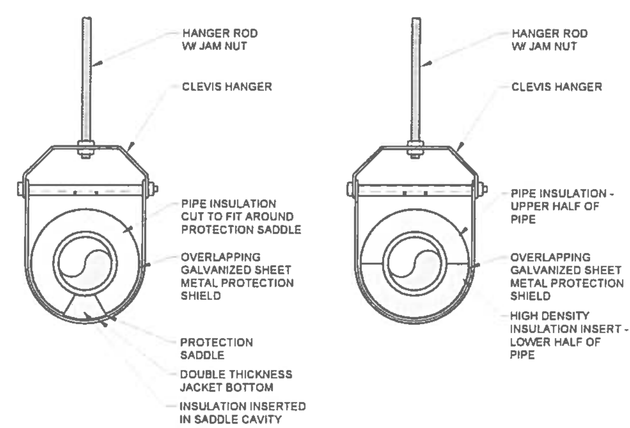
5 MEMBRANE WATERPROOF FLOOR PENETRATION DETAIL
P3.01 SCALE: NTS



NOTES

1. THESE SLEEVED PIPE OPENING DETAILS ARE TO BE USED IN DRY WALL ONLY AND SHALL NOT BE USED FOR WALLS WITH WATER ON ONE OR BOTH SIDES
2. SLEEVES ARE NOT REQUIRED IN CORE DRILLED WALLS. PENETRATIONS THROUGH EXISTING WALLS, OR FLOORS

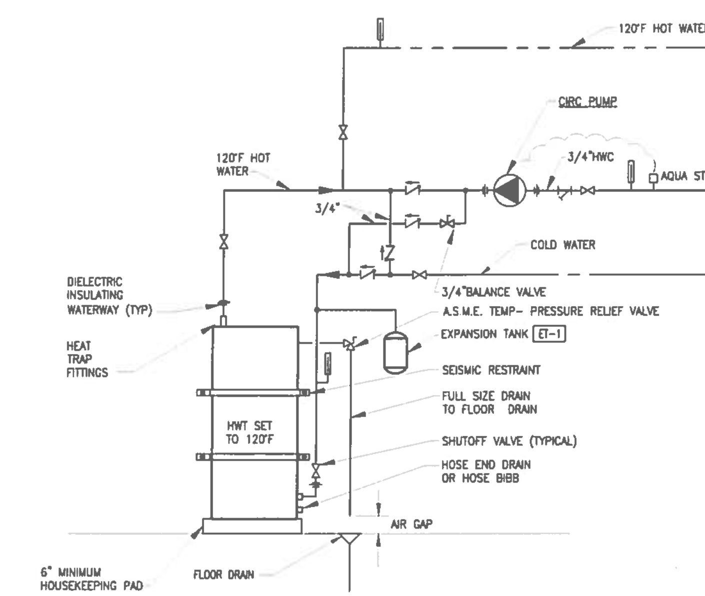
6 SLEEVE PIPE OPENING DETAIL
P3.01 SCALE: NTS



DETAIL 'A'
HOT PIPE: 4" DIAMETER AND LARGER (60° F & HIGHER)

DETAIL 'B'
HOT PIPE: UNDER 4" DIAMETER
COLD PIPE: ALL SIZES

7 TYPICAL PIPE HANGERS - INSULATED PIPE
P3.01 SCALE: NTS



8 ELECTRIC WH PIPING DETAIL
P3.01 SCALE: NTS

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PLUMBING DETAILS

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ELECTRICAL SYMBOLS

LIGHTING

- XX / YY — LUMINAIRE: XX = LUMINAIRE TYPE; YY = CIRCUIT NUMBER; XXE = LUMINAIRE TYPE ENDING IN E INDICATE BATTERY BACKUP
- LUMINAIRE ON EMERGENCY CIRCUIT
- EXIT SIGN, CEILING MOUNT — REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL
- EXIT SIGN, WALL MOUNT — REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL
- SURFACE MOUNT EMERGENCY LUMINAIRE
- SURFACE MOUNT EMERGENCY/EXIT LUMINAIRE
- RECESSED DOWNLIGHT
- RECESSED WALL WASH LUMINAIRE
- RECESSED ADJUSTABLE LUMINAIRE
- PENDANT MOUNT LUMINAIRE
- SURFACE MOUNT LUMINAIRE
- WALL MOUNT SCONCE
- PENDANT MOUNT LINEAR LUMINAIRE
- PENDANT MOUNT LINEAR LUMINAIRE
- RECESSED LINEAR LUMINAIRE
- RECESSED LINEAR WALL WASH LUMINAIRE
- RECESSED 2x4 LUMINAIRE
- RECESSED 1x4 LUMINAIRE
- RECESSED 2x2 LUMINAIRE
- SURFACE MOUNT 2x4 LUMINAIRE
- SURFACE MOUNT 1x4 LUMINAIRE
- SURFACE MOUNT LUMINAIRE
- SURFACE MOUNT 2x2 LUMINAIRE
- TRACK MOUNT ACCENT LUMINAIRE(S)
- TRACK MOUNT PENDANT LUMINAIRE(S)
- UNDER-CABINET LUMINAIRE
- WALL MOUNT LINEAR LUMINAIRE
- PENDANT MOUNT STRIP LUMINAIRE
- SURFACE MOUNT STRIP LUMINAIRE
- WALL MOUNT STRIP LUMINAIRE
- CONTINUOUS LINEAR LUMINAIRE
- POLE MOUNT LUMINAIRE – SINGLE HEAD
- POLE MOUNT LUMINAIRE – DOUBLE HEAD
- WALL MOUNT POLE HEAD LUMINAIRE
- FLAG POLE LUMINAIRE
- GROUND MOUNT PATH LUMINAIRE
- IN-GROUND LUMINAIRE
- IN-GROUND LINEAR LUMINAIRE
- STEPLIGHT
- $_{abc} — SINGLE POLE SWITCH – SUBSCRIPT INDICATES SWITCHING DUTY. PROVIDE ONE SWITCH FOR EACH SWITCHING DUTY SHOWN.
- $_2 — DOUBLE POLE SWITCH
- $_3 — THREE-WAY SWITCH
- $_D — DIMMER SWITCH
- $_K — KEY OPERATED SWITCH
- $_OS — SWITCH WITH OCCUPANCY SENSOR
- $_P — SWITCH WITH PILOT LIGHT
- $_T — SWITCH WITH TIMER
- ILLUMINATION CONTROL STATION (ICS) – SEE SCHEDULE
- OCCUPANCY SENSOR, IR, CEILING MOUNT
- OCCUPANCY SENSOR, DUAL TECHNOLOGY, 360° CEILING MOUNT
- OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL MOUNT
- CONTACTOR
- RELAY
- DAYLIGHT SENSOR

RECEPTACLES

- DUPLEX RECEPTACLE – NEMA 5-15R (NEMA 5-20R FOR DEDICATED CIRCUIT)
- DUPLEX RECEPTACLE – ABOVE COUNTER. COORDINATE W/ ARCH. ELEVATIONS
- DUPLEX RECEPTACLE – DEDICATED (NEMA 5-20R)
- DUPLEX RECEPTACLE – WEATHERPROOF
- DUPLEX RECEPTACLE – TAMPER RESISTANT
- DUPLEX RECEPTACLE – GROUND FAULT CIRCUIT INTERRUPTER
- DUPLEX RECEPTACLE – UNIVERSAL SERIAL BUS
- DUPLEX RECEPTACLE – SURGE PROTECTED
- DUPLEX RECEPTACLE – COMPUTERS
- DOUBLE DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE – COMPUTERS
- DUPLEX RECEPTACLE – CEILING MOUNTED
- DOUBLE DUPLEX RECEPTACLE – CEILING MOUNTED, PROJECTORS
- DUPLEX RECEPTACLE – CEILING MOUNTED, PROJECTORS
- DOUBLE DUPLEX RECEPTACLE – MOUNT 24" BELOW CEILING
- CONTROLLED DUPLEX RECEPTACLE
- ABOVE COUNTER CONTROLLED DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE – TYPE AS INDICATED
- CORD REEL

EQUIPMENT

- PANELBOARD 277/480V
- PANELBOARD 120/208V OR 120/240V
- CABINET – TYPE AS INDICATED ON PLAN
- SWITCHBOARD
- TRANSFORMER – SIZE AND VOLTAGE AS INDICATED ON PLAN
- HORSEPOWER RATED TOGGLE SWITCH WITH OVERLOAD PROTECTION
- COMBINATION STARTER — HP RATED, 3-POLE, NEMA 1 MINIMUM UNLESS NOTED OTHERWISE – OVERCURRENT PROTECTION AS REQUIRED
- NON-FUSED DISCONNECT SWITCH – SIZE PER CONNECTED LOAD
- FUSED DISCONNECT SWITCH – SIZE PER CONNECTED LOAD. PROVIDE FUSES PER EQUIPMENT NAMEPLATE.
- EQUIPMENT CONNECTION
- EF-1 — MECHANICAL EQUIPMENT CALLOUT. REFER TO MECHANICAL EQUIPMENT SCHEDULE.
- FLUSH FLOOR BOX

ELECTRICAL RISER

- GROUND
- 30A/3P — CIRCUIT BREAKER — NUMBER INDICATED TRIP SETTING AND NUMBER OF POLES
- PNL — PANELBOARD
- CURRENT TRANSFORMER (CT)
- CABLE TO BUS CONNECTION
- AUTOMATIC TRANSFER SWITCH (ATS)
- XXX — FEEDER TYPE – REFER TO FEEDER SCHEDULE ON ONE-LINE
- UTILITY METER
- PM — POWER MONITOR
- W — WATTHOUR METER
- SURGE PROTECTIVE DEVICE (SPD)
- XX,XXX — AVAILABLE SYMMETRICAL FAULT CURRENT IN AMPS

RACEWAYS

- RACEWAY CONCEALED IN WALL OR CEILING, EXPOSED IN UNFINISHED AREAS
- RACEWAY CONCEALED BELOW FLOOR
- FLEXIBLE CONDUIT FIXTURE WHIP WITH CONDUCTORS
- #-1,3,5 — BRANCH CIRCUIT WIRING SHOWING CIRCUIT HOME RUN TO PANELBOARD. HASHMARKS SHOW QUANTITY OF CONDUCTORS WHEN MORE THAN THREE REQUIRED DOT INDICATES GROUND CONDUCTOR NEUTRAL CONDUCTOR SHOWN LARGER. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.
- RACEWAY TURNING UP
- RACEWAY TURNING DOWN
- CIRCUIT CONTINUATION
- LV — LOW VOLTAGE WIRING
- JUNCTION BOX
- PB — PULL BOX

SPECIAL SYSTEMS

FIRE ALARM

- MANUAL PULL STATION WITH GUARD
- HORN/STROBE
- HORN/STROBE – CEILING MOUNT
- STROBE
- STROBE – CEILING MOUNT
- BELL
- SMOKE DETECTOR
- DUCT TYPE SMOKE DETECTOR (SUPPLY DUCT U.O.N.)
- FIXED TEMPERATURE HEAT DETECTOR
- ADDRESSABLE RELAY
- MONITOR MODULE
- CONNECTION TO ELECTROMAGNETIC DOOR HOLDER
- CONNECTION TO ELECTROMAGNETIC DOOR HOLDER (MOUNT IN HEAD OF DOOR)
- G — 'G' INDICATES DEVICE WITH GUARD
- INFRARED BEAM SMOKE DETECTOR TRANSMITTER
- INFRARED BEAM SMOKE DETECTOR RECEIVER

INTERCOM/CLOCK SYSTEM

- CEILING MOUNTED SPEAKER
- VR — CEILING MOUNTED SPEAKER – VANDAL RESISTANT
- WALL MOUNTED SPEAKER
- WP — WALL MOUNTED EXTERIOR SPEAKER (VANDAL RESISTANT & WEATHERPROOF)
- WP — CEILING MOUNTED EXTERIOR SPEAKER (VANDAL RESISTANT & WEATHERPROOF)
- ANALOG CLOCK (12" U.O.N.). 'G' INDICATES WIRE GUARD
- DIGITAL CLOCK/SPEAKER COMBINATION
- 10" DIAMETER EXTERIOR CLASS CHANGE BELL
- INTERCOM CALL BUTTON
- INTERCOM HANDSET

TELECOMMUNICATIONS

- X — TELECOMMUNICATIONS OUTLET — X = QTY. OF CAT 6 JACKS
- WAP — WIRELESS ACCESS POINT – 1 CAT 6 JACK

SECURITY SYSTEM

- DOOR CONTACTS
- INFRARED MOTION DETECTOR
- K — KEYPAD
- E — ELECTRIC STRIKE
- C — CARD READER
- 360° MOTION SENSOR

CABLE TELEVISION (CATV) SYSTEM

- C — CATV OUTLET

CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM

- CCTV CAMERA

AUDIO/VISUAL SYSTEM

- SB — SMART BOARD
- VP — VIDEO PROJECTOR
- V — CATV OUTLET & AUDIO-VIDEO JACKS (AV CABINET)
- AV — AUDIO-VIDEO JACKS (DESK)

ELECTRICAL ABBREVIATIONS

AD	AUTO DOOR	FAAP	FIRE ALARM ANNUNCIATOR PANEL	PS	PROJECTION SCREEN
AF	AMPERE FRAME	FACP	FIRE ALARM CONTROL PANEL	PTR	PRINTER
AFF	ABOVE FINISHED FLOOR	FDMPR	FIRE DAMPER	PVC	POLYVINYL CHLORIDE (PLASTIC)
AHU	AIR HANDLING UNIT	FH	FUME HOOD	PWR	POWER
AIC	AMPERE INTERRUPTING CURRENT	FMT	FLEXIBLE METALLIC TUBING	QTY	QUANTITY
AMP	AMPERE	FU or F	FUSE	RA FAN	RETURN AIR FAN
AS	AMPERE SWITCH	FVNR	FULL VOLTAGE NON-REVERSING	RECPT	RECEPTACLE
ASV	AIR SOLENOID VALVE	G	GROUND	REF	REFRIGERATOR
AT	AMPERE TRIP	GALV	GALVANIZED	REQD	REQUIRED
ATS	AUTOMATIC TRANSFER SWITCH	GC	GOGGLE CABINET	RH	RANGE HOOD
AWG	AMERICAN WIRE GAUGE	GD	GARBAGE DISPOSAL	RMC	RIGID METAL CONDUIT
BAS	BUILDING AUTOMATION SYSTEM	GEC	GROUNDING ELECTRODE CONDUCTOR	RNG	RANGE
BBO	BACKBOARD OPERATOR	GEN	GENERATOR	RSD	ROLLING STEEL DOOR
BL	BLEACHERS	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SDMPR	SMOKE DAMPER
BLDG	BUILDING	GSV	GAS SOLENOID VALVE	SF	SUPPLY FAN
C	CONDUIT	HH	HAND HOLE	SOLV	SOLENOID VALVE
CAB	CABINET	HID	HIGH INTENSITY DISCHARGE	SPD	SURGE PROTECTIVE DEVICE
CB	CIRCUIT BREAKER	HP	HORSEPOWER	SPEC	SPECIFICATION
CCTV	CLOSED CIRCUIT TELEVISION	HPF	HIGH POWER FACTOR	SPST	SINGLE POLE, SINGLE THROW
CKT	CIRCUIT	HPS	HIGH PRESSURE SODIUM	ST	SHUNT TRIP
CLG	CEILING	HT	HEAT TRACE	STD	STANDARD
CM	COFFEE MAKER	IH	INSTAHOT	STL	STEEL
CMU	CONCRETE MASONRY UNIT	IM	ICE MACHINE	SW	SWITCH
CO	CONDUIT ONLY	INTD	INTERCOM WALL DISPLAY	SWBD	SWITCHBOARD
COMM	COMMUNICATION	J-BOX	JUNCTION BOX	SWGR	SWITCHGEAR
COP	COPIER	kcmil	THOUSAND CIRCULAR MILS	TEL	TELEPHONE
CT	COOK TOP	kV	KILOVOLT	TEMP	TEMPORARY
CT	CURRENT TRANSFORMER	kVA	KILOVOLT AMPERE	TP	TRAP PRIMER
CU	COPPER	kW	KILOWATT	TR	TAMPER RESISTANT
DCVA	DOUBLE CHECK VALVE ASSEMBLY	kWh	KILOWATT HOUR	TTB	TELEPHONE TERMINAL BOARD
DET	DETAIL	MAX	MAXIMUM	TYP	TYPICAL
DIA	DIAMETER	MCC	MOTOR CONTROL CENTER	UC	UNDER COUNTER
DISC	DISCONNECT	MFR	MANUFACTURER	UGND	UNDERGROUND
DSPL	DISPOSAL	MECH	MECHANICAL	UH	UNIT HEATER
DLC	DOOR LOCK CONTROLLER	MH	MANHOLE; METAL HALIDE	UL	UNDERWRITERS LABORATORIES
DN	DOWN	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DO	DOOR OPERATOR	ML	MAGNETIC LOCK	UPS	UNINTERRUPTIBLE POWER SUPPLY
DPST	DOUBLE POLE, SINGLE THROW	MLO	MAIN LUGS ONLY	USB	UNIVERSAL SERIAL BUS
DRY	DRYER	MTD	MOUNTED	V	VOLT
DW	DISHWASHER	MTG	MOUNTING	VA	VOLT AMPERE
DWG	DRAWING	MW	MICROWAVE	VFD	VARIABLE FREQUENCY DRIVE
EA	EACH	NEC	NATIONAL ELECTRICAL CODE	VM	VENDING MACHINE
EF	EXHAUST FAN	NEUT	NEUTRAL	W	WATT
EH	ELECTRIC HEATER	NC	NORMALLY CLOSED	W/	WITH
EHD	ELECTRIC HAND DRYER	NIC	NOT IN CONTRACT	WAC	WASHINGTON ADMINISTRATIVE CODE
ELEC	ELECTRIC	NO	NUMBER; NORMALLY OPEN	WAS	WASHER
ELEV	ELEVATOR	NTS	NOT TO SCALE	W/D	STACKED WASHER / DRYER
EMT	ELECTRICAL METALLIC TUBING	OD	OVERHEAD (COILING) DOOR	WF	WASH FOUNTAIN
EPO	EMERGENCY POWER OFF	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	WM	WASHING MACHINE
EQUIP	EQUIPMENT	OF/OI	OWNER FURNISHED / OWNER INSTALLED	W/O	WITHOUT
EWC	ELECTRIC WATER COOLER	PF	POWER FACTOR	WON	WON DOOR
EWH	ELECTRIC WATER HEATER	PH or ø	PHASE	WP	WEATHERPROOF, WATERPROOFING
EWS	ELECTRIC WINDOW SHADE	PIV	POST INDICATOR VALVE	XFMR	TRANSFORMER
EXIST	EXISTING	PNL	PANEL	Z	IMPEDANCE
FA	FIRE ALARM	PROJ	PROJECTOR		

DEVICE MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18 INCHES VERTICALLY MOUNTED
LIGHT SWITCHES	48 INCHES VERTICALLY MOUNTED
PANELBOARDS	72 INCHES TO TOP OF PANELBOARD
TELEPHONE OUTLET – DESK	18 INCHES VERTICALLY MOUNTED
TELEPHONE OUTLET – WALL	54 INCHES VERTICALLY MOUNTED
COMPUTER OUTLET – DESK	18 INCHES VERTICALLY MOUNTED
FIRE ALARM PULL STATION	48 INCHES
INTERCOM CALL BUTTON	48 INCHES
DIGITAL CLOCK/SPEAKER	PER ARCHITECTURAL INTERIOR ELEVATIONS
ANALOG CLOCK	PER ARCHITECTURAL INTERIOR ELEVATIONS
CATV OUTLET	18 INCHES VERTICALLY MOUNTED
KEYPAD/CARD READER	48 INCHES
FIRE ALARM HORN, STROBE OR HORN/STROBE	NOT LESS THAN 80" OR GREATER THAN 96" TO THE BOTTOM
FIRE ALARM CONTROL PANEL	72 INCHES
DOOR OPERATOR PUSH BUTTON	48 INCHES OR AS SHOWN ON ARCHITECTURAL ELEVATIONS

1. COORDINATE ROUGH-IN WITH ARCHITECTURAL ELEVATIONS.
2. WHERE A CONFLICT EXISTS, THE ARCHITECTURAL ELEVATIONS GOVERN.

DRAWING INDEX

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PROJECT # 210223

BID SET

ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

COVER SHEET AND GENERAL INFORMATION

SHEET # E0.01

DATE/ TIME PRINTED:

EQUIPMENT SCHEDULE

ABBREVIATION	NAME	RATING	BRANCH CIRCUIT	CONNECTION	DISCONNECT	REMARKS
ACS	ACCESS CONTROL SYSTEM	120V-1ø	1/2" - 3#12	HW	-	CONTRACTOR TO INSTALL AND WIRE POWER SUPPLIES, SWITCHES, ELECTRIC STRIKES & ALL OTHER EQUIPMENT WITH AN ELECTRICAL CONNECTION.
ASV	AIR SOLENOID VALVE	120V-1ø	1/2" - 3#12	HW	-	PROVIDE SHUTOFF SWITCH. ENGRAVE SWITCH PLATE.
BAS	BUILDING AUTOMATION SYSTEM	120V-1ø	1/2" - 3#12	HW	-	COORDINATE LOCATION WITH CONTROLS CONTRACTOR.
BBO	BACK BOARD OPERATOR	120V-1ø-3/4HP U.O.N.	3/4" - 3#12	RECEPTACLE	-	PROVIDE TWIST LOCK RECEPTACLE AT CEILING SPACE PER MANUFACTURER'S REQUIREMENTS. INSTALL AND WIRE RAISE/LOWER SWITCHES IN GYM AS NOTED ON FLOOR PLAN. PROVIDE 1/2" C. AND ALL REQUIRED WIRING.
BL	BLEACHERS	120/208V-3ø-12A	3/4" - 4#12 & 1#10 G	HW	30A-3P	INSTALL AND WIRE CONTROLLER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. INSTALL AND WIRE OPEN/CLOSE SWITCH AT LOCATION DIRECTED BY ARCHITECT.
CT	COOK TOP	120/208V-1ø-10kW	3/4" - 2#8 & 1#10 G	HW	-	
COP	COPIER	120V-1ø	3/4" - 3#12	5-20R	-	
DISP	DISPOSAL	120V-1ø-3/4HP U.O.N.	1/2" - 3#12	5-20R	-	PROVIDE SWITCH ABOVE COUNTER. ENGRAVE SWITCH PLATE.
DO	DOOR OPERATOR	120V-1ø-1/4HP U.O.N.	1/2" - 3#12	HW	HRS	INSTALL AND WIRE TWO PUSH BUTTON OPERATORS. COORDINATE LOCATION OF PUSH BUTTONS WITH ARCHITECT. PROVIDE 1/2" C. AND ALL REQUIRED CONTROL WIRING.
DRY	DRYER	120/208V-1ø-6.2kW	3/4" - 3#10 & 1#10 G	14-30R	-	
EHD	ELECTRIC HAND DRYER	120V-1ø-19A	3/4" - 2#10 & 1#10 G	HW	-	
EM	ESPRESSO MACHINE	120/208V-3ø-24A	3/4" - 4#10 & 1#10 G	RECEPTACLE	-	VERIFY RECEPTACLE TYPE.
EWC	ELECTRIC WATER COOLER	120V-1ø	1/2" - 3#12	5-20R	-	WIRE TO GFCI RECEPTACLE BELOW WATER COOLER.
EWS	ELECTRIC WINDOW SHADE	120V-1ø	1/2" - 3#12	HW	-	INSTALL AND WIRE CONTROLLER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. INSTALL AND WIRE RAISE/LOWER SWITCH AT LOCATION DIRECTED BY ARCHITECT.
FH	FUME HOOD	120V-1ø	1/2" - 3#12	HW	-	INSTALL AND WIRE LIGHTS, SWITCHES, RECEPTACLE AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. INTERLOCK WITH EXHAUST FAN.
FP	FIREPLACE	120V-1ø	1/2" - 3#12	HW	-	PROVIDE SWITCH. ENGRAVE SWITCH PLATE.
FPB	FAN POWERED BOX	277V-1ø-3/4HP U.O.N.	1/2" - 3#12	HR	HRS	
FSC	FLAMMABLE STORAGE CABINET	-	1/2" - 1#10	HW	-	PROVIDE #10 GROUND CONDUCTOR TO BUILDING STEEL.
FV	FLUSH VALVE	120V-1ø	1/2" - 3#12	VERIFY	-	INSTALL AND WIRE TRANSFORMER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. FEED TRANSFORMER VIA FACELESS GFI MODULE.
GC	GOGGLE CABINET	120V-1ø	1/2" - 3#12	5-20R	-	
GD	GARAGE DOOR	208V-3ø-1HP	3/4" - 3#12 & 1#12 G	HW	30A-3P	INSTALL & WIRE CONTROLLER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. INSTALL AND WIRE RAISE/LOWER SWITCH AT LOCATION DIRECTED BY ARCHITECT.
GS	GAS SOLENOID VALVE	120V-1ø	1/2" - 3#12	HW	-	WIRE TO SHUTOFF SWITCH. ENGRAVE SWITCH PLATE.
HT	HEAT TRACE	120V-1ø	1/2" - 3#12	HW	-	COORDINATE LOCATION WITH MECHANICAL. PROVIDE GFPE BREAKER.
IH	INSTAHOT	120V-1ø-1.5kW U.O.N.	1/2" - 3#12	5-20R	-	PROVIDE GFCI RECEPTACLE BELOW COUNTER.
IM	ICE MACHINE	120V-1ø	1/2" - 3#12	5-20R	-	PROVIDE GFCI RECEPTACLE.
IR	INFRARED FAUCET	120V-1ø	1/2" - 3#12	VERIFY	-	INSTALL AND WIRE TRANSFORMER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. FEED TRANSFORMER VIA FACELESS GFI MODULE.
IWD	INTERCOM WALL DISPLAY	120V-1ø	1/2" - 3#12	HW	-	PROVIDE 5-GANG BOX.
ML	MAGNETIC LOCK	120V-1ø	1/2" - 3#12	HW	-	INSTALL AND WIRE KEY SWITCH AND ALL POWER SUPPLY ACCESSORIES PROVIDED BY MANUFACTURER.
OD	OVERHEAD DOOR	120V-1ø-3/4HP	3/4" - 3#12	HW	HRS	INSTALL AND WIRE CONTROLLER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. INSTALL AND WIRE RAISE/LOWER SWITCH AT LOCATION DIRECTED BY ARCHITECT.
OP	OPERABLE PARTITION	208V-3ø-1/2HP	3/4" - 3#12 & 1#12 G	HW	30A-3P	INSTALL AND WIRE CONTROL SWITCH AT LOCATION DIRECTED BY ARCHITECT. INSTALL AND WIRE LIMIT SWITCHES PROVIDE BY MANUFACTURER.
PS	PROJECTION SCREEN	120V-1ø-1/16HP	1/2" - 3#12	HW	-	INSTALL AND WIRE RAISE/LOWER SWITCH AT LOCATION DIRECTED BY ARCHITECT.
REF	REFRIGERATOR	120V-1ø	1/2" - 3#12	5-20R	-	MOUNT RECEPTACLE AT +48"
RDD	ROLL DOWN DOOR	120V-1ø-1/2HP U.O.N.	3/4" - 3#12	HW	HRS	INSTALL AND WIRE RAISE/LOWER SWITCH AT LOCATION DIRECTED BY ARCHITECT. WIRE DOOR RELEASE TO FIRE ALARM RELAY TO RELEASE DOOR WHEN ADJACENT DETECTORS GO INTO ALARM, NOT GENERAL ALARM.
RH	RANGE HOOD	120V-1ø	1/2" - 3#12	HW	-	PROVIDE 2-POLE SWITCH ABOVE COUNTER. ONE POLE TO CONTROL HOOD LIGHT AND THE OTHER TO CONTROL REMOTELY MOUNTED EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION. ENGRAVE SWITCH PLATE.
RNG	RANGE	120/208V-1ø-8kW	1" - 3#6 & 1#10 G	14-50R	-	
SP	SUMP PUMP	120V-1ø-1/2HP	3/4" - 3#12	5-20R	-	PROVIDE GFCI RECEPTACLE
SV	SOLENOID VALVE	120V-1ø	1/2" - 3#12	HW	-	PROVIDE SHUTOFF SWITCH. ENGRAVE SWITCH PLATE.
TP	TRAP PRIMER	120V-1ø	1/2" - 3#12	HW	-	VERIFY LOCATIONS WITH PLUMBER PRIOR TO ROUGH-IN.
VM	VENDING MACHINE	120V-1ø	3/4" - 3#12	5-20R	-	PROVIDE GFCI RECEPTACLE
WAS	WASHER	120V-1ø	1/2" - 3#12	5-20R	-	PROVIDE GFCI RECEPTACLE, MOUNTED AT +48"
W/D	WASHER/DRYER	120/208V-1ø-5kW	3/4" - 3#10 & 1#10 G	14-30R	-	MOUNT RECEPTACLE AT +48"
WF	WASH FOUNTAIN	120V-1ø	1/2" - 3#12	VERIFY	-	INSTALL AND WIRE TRANSFORMER AND ALL ACCESSORIES PROVIDED BY MANUFACTURER. FEED TRANSFORMER VIA FACELESS GFI MODULE.
WDN	WDN DOOR	120V-1ø	1/2" - 3#12	HW	-	INSTALL AND WIRE SWITCH AT LOCATION DIRECTED BY ARCHITECT. WIRE DOOR RELEASE TO FIRE ALARM RELAY.

NOTES:
1. NOT ALL EQUIPMENT TYPES ARE UTILIZED ON THIS PROJECT.
2. VERIFY REQUIREMENTS PRIOR TO ROUGH-IN.
3. CONNECTIONS:
   HW = HARD WIRED CONNECTION
   VERIFY = PROVIDE RECEPTACLE OR HARDWIRED CONNECTION PER MANUFACTURER'S SHOP DRAWINGS.
4. DISCONNECTS: PROVIDE PER MANUFACTURER'S SHOP DRAWINGS. PROVIDE HORSEPOWER RATED SWITCH (HRS) FOR SINGLE PHASE LOADS, 1/2 HP AND LESS.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

1. ITEMS NOTED AS "TYPICAL" ON ANY DRAWING REFERS TO ALL DRAWINGS.
2. PROVIDE NYLON PULL STRING IN ALL EMPTY RACEWAYS.
3. NO STRUCTURAL MEMBERS SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
4. ALL RACEWAYS WITHIN THE BUILDING SHALL BE RUN OVERHEAD U.O.N. RACEWAYS SHALL NOT BE RUN UNDER THE FLOOR SLAB UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
5. NO RACEWAYS SHALL BE RUN IN FLOOR SLABS.
6. FIRST FLOOR HOMERUNS (TO THE FIRST DEVICE) MAY BE RUN UNDER THE SLAB IN 1" PVC.
7. LOCATIONS OF ALL WALL MOUNTED DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, ELEVATIONS AND CASEWORK SUPPLIERS SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
8. ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.
9. PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS AND CEILINGS.
10. PROVIDE STI "EZ-PATH" ASSEMBLIES AT EACH LOCATION WHERE LOW VOLTAGE WIRING PENETRATES A RATED WALL OR CEILING. ASSUME 20 ARE TO BE PROVIDED.
11. SEAL ALL PENETRATIONS IN RATED FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.
12. PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING, SEE SPECIFICATIONS. QUANTITY AND SIZE OF RACEWAYS SHOWN ON SPECIAL SYSTEMS PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.
13. ALL LOW VOLTAGE WIRING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
14. ALL EQUIPMENT, LUMINAIRES, RACEWAYS, DEVICES, ETC. SHALL BE UL LISTED.
15. MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.
16. WHERE A CONFLICT EXISTS THE MOST EXPENSIVE OPTION SHALL GOVERN.
17. PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES AND DIAGRAMS.

DEMOLITION PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL DEMOLITION PLAN DRAWINGS

1. THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.
2. WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, AND WIRING UNLESS OTHERWISE NOTED.
3. REMOVE ALL ELECTRICAL DISTRIBUTION EQUIPMENT, RACEWAYS, AND CONDUCTORS AS SHOWN ON THE EXISTING ONE-LINE DIAGRAM.
4. REMOVE ALL TEMPORARY WORK INSTALLED DURING THE COURSE OF CONSTRUCTION.
5. REMOVE CONNECTIONS TO MECHANICAL EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS.
6. EXISTING DEVICES TO BE DEMOLISHED SHOWN BOLD. REMOVE DEVICE, RACEWAY AND WIRING BACK TO SOURCE, UON.
7. WHERE EXISTING RECEPTACLES ARE REMOVED, MAINTAIN CONTINUITY TO RECEPTACLES ON THE SAME CIRCUIT TO REMAIN.
8. WHERE EXISTING LUMINAIRES ARE REMOVED, MAINTAIN CONTINUITY TO FIXTURES ON THE SAME CIRCUIT TO REMAIN.
9. WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.

DOOR HARDWARE

1. PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES AND DIAGRAMS.

DESIGN BUILD FIRE ALARM SYSTEM

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE DESIGN BUILD FIRE ALARM SYSTEM (DEVICES, RACEWAYS AND WIRING) PER THE FIRE MARSHAL'S REQUIREMENTS.
2. PROVIDE THE FOLLOWING IN ADDITION TO THE REQUIREMENTS OF THE FIRE MARSHAL:
   2.A. COMPLETE AREA SMOKE DETECTOR COVERAGE. FIRE SPRINKLERS CANNOT BE USED IN LIEU OF SMOKE DETECTORS.
   2.B. PULL STATIONS AT ALL EXITS.
3. THE CONTRACTOR'S SCOPE SHALL INCLUDE ALL NEW/REMODELED AREAS AND ANY REQUIRED UPGRADES TO THE EXISTING SITE/BUILDINGS.
4. THE DEVICES AND RACEWAYS SHOWN ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY TO ASSIST THE CONTRACTOR IN PREPARING HIS BID. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE DESIGN BUILD SYSTEM.
5. THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING AND PAINTING REQUIRED TO ALLOW FOR INSTALLATION OF THE SYSTEM.
6. FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC RACEWAYS.

LIGHTING PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL LIGHTING PLAN DRAWINGS

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.
3. COORDINATE THE FINAL LOCATION OF LUMINAIRES IN MECHANICAL ROOMS AND ATTIC SPACES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT.
4. ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
5. INSTALL AND WIRE REMOTE BALLASTS AND DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS-BUILT DRAWINGS.

POWER PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL POWER PLAN DRAWINGS

1. CIRCUIT ALL FIRE/SMOKE DAMPERS AND SMOKE DAMPERS FROM NEAREST 120V EMERGENCY PANEL WITH 3/4"-3#12. UTILIZE SPARE 20A-1P BREAKER PROVIDED. RECORD CIRCUITING ON AS-BUILT PANEL SCHEDULES AND DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR DAMPER LOCATIONS.
2. COORDINATE LOCATIONS OF BAS CONTROL POWER WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
3. PRIOR TO ORDERING EQUIPMENT OR ROUGH-IN, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ESTABLISH THE ACTUAL LOAD AND OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR EQUIPMENT RATINGS AND FEEDER SIZES.
5. PROVIDE DISCONNECT SWITCH OR COMBINATION STARTER FOR EACH PIECE OF EQUIPMENT AS SHOWN ON MECHANICAL EQUIPMENT SCHEDULE.
6. PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT MANUFACTURER TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
7. ALL EXTERIOR RECEPTACLES SHALL BE WP/GFCI.
8. ALL VENDING MACHINE RECEPTACLES SHALL BE GFCI.
9. ALL EXTERIOR DISCONNECTS/STARTERS SHALL BE NEMA 3R.
10. ALL HOMERUNS OVER 75' SHALL BE #10 AWG MINIMUM.
11. FEEDER ROUTING SHOWN IS APPROXIMATE. COORDINATE WITH MECHANICAL SYSTEMS AND BUILDING STRUCTURE. PROVIDE OFFSETS AS REQUIRED.
12. ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE.

EQUIPMENT CONNECTIONS

1. VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH-IN.
2. INSTALL AND WIRE EQUIPMENT PER MANUFACTURER SHOP DRAWINGS.
3. PROVIDE ALL RACEWAYS, WIRING AND ANCILLARY EQUIPMENT AS SHOWN ON MANUFACTURER SHOP DRAWINGS.
4. PROVIDE HARDWIRED CONNECTION, RECEPTACLE OR FUSED DISCONNECT SWITCH AS SHOWN ON MANUFACTURER SHOP DRAWINGS.

WASHINGTON STATE NONRESIDENTIAL ENERGY CODE COMPLIANCE

1. LIGHTING: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION VERIFYING THAT ALL LAMPS AND BALLASTS HAVE BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE A LIST WHICH INDICATES THE EXACT PART NUMBER OF THE LAMP AND BALLAST PROVIDED FOR EACH FIXTURE TYPE. INCLUDE THE CERTIFICATION AND THE LAMP/BALLAST LIST IN THE O&M MANUAL.
2. COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.
3. TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4-2 OF THE "GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS" PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP-1, LATEST EDITION).

SYSTEMS PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL SPECIAL SYSTEMS PLAN DRAWINGS

1. MINIMUM RACEWAY SIZE SHALL BE 1" FOR TELECOMMUNICATIONS CABLING AND ¾" FOR ALL OTHER SYSTEMS.
2. ALL SPECIAL SYSTEMS WIRING EXCEPT FIRE ALARM SHALL BE RUN UTILIZING OPEN WIRING METHOD ABOVE ACCESSIBLE CEILINGS. PROVIDE METALLIC RACEWAYS FOR WIRING INSTALLED IN WALLS, ABOVE INACCESSIBLE CEILING, WHERE EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40%.
3. FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC RACEWAYS.
4. PROVIDE ADDRESSABLE DUCT DETECTOR AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
5. PROVIDE FA CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCHES. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
6. PROVIDE ¾" A-C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE IT/DATA ROOM. MOUNT 8' DIMENSION VERTICAL. PAINT FLAT WHITE.
7. PROVIDE 1" C. FROM EACH FLOOR BOX TO ACCESSIBLE CEILING LOCATION. THIS IS IN ADDITION TO THE RACEWAYS SHOWN ON THE DRAWINGS.
8. ALL EXTERIOR FIRE ALARM AND INTERCOM DEVICES SHALL BE WEATHERPROOF.
9. PROVIDE EXTERIOR FIRE ALARM BELL AND STROBE AT LOCATION DIRECTED BY FIRE MARSHAL.
10. PROVIDE CONNECTION TO FIRE SPRINKLER DOUBLE CHECK VALVE ASSEMBLIES AND PIV'S. REFER TO CIVIL/MECHANICAL DRAWINGS FOR LOCATIONS.
11. STAPLES SHALL NOT BE USED TO SECURE LOW VOLTAGE CABLING.
12. ALL CABLING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
13. EXTERIOR INTERCOM SPEAKERS SHALL BE WEATHERPROOF AND VANDAL RESISTANT.

ONE-LINE DIAGRAM

1. ALL FEEDERS ARE COPPER WITH THHN/THWN INSULATION.
2. PROVIDE PULL BOXES AS REQUIRED BY THE NEC.
3. SHORT CIRCUIT CURRENTS LESS THAN 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS ARE NOT SHOWN.
4. THE ONE-LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
5. FOR TWO SECTION PANELS PROVIDE FULL SIZE FEEDER CONNECTIONS FROM SECTION 1 TO SECTION 2.
6. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE FULLY RATED. A SERIES RATED SYSTEM IS NOT ACCEPTABLE.
7. ALL TRANSFORMERS ARE 480V 3 PHASE 3 WIRE PRIMARY: 208Y/120V 3 PHASE, 4 WIRE SECONDARY, NEMA TP-1 RATED, U.O.N.
8. NOT ALL CIRCUIT BREAKERS ARE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.
9. TEST ALL GROUND FAULT RELAYS AS REQUIRED BY THE WAC.
10. TRANSFORMER SECONDARY CONDUCTORS SHALL BE NO MORE THAN 10-FEET LONG PER NEC ARTICLE 240.21 (C) 2.
11. ALL CIRCUIT BREAKERS SERVING HID LIGHTING SHALL BE HID RATED.
12. PROVIDE GROUNDING AND BONDING OF ELECTRICAL POWER DISTRIBUTION EQUIPMENT PER NEC ARTICLE 250.

BRANCH CIRCUIT WIRING

THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

1. IN GENERAL ONLY CIRCUIT NUMBERS HAVE BEEN SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RACEWAYS AND WIRING.
2. SHOW ALL RACEWAYS AND WIRING ON AS-BUILT DRAWINGS.
3. GENERAL:
   3.A. MINIMUM RACEWAY SIZE SHALL BE ¾"
   3.B. NO MORE THAN 7 #12 AWG CONDUCTORS SHALL BE INSTALLED IN A RACEWAY.
   3.C. HOMERUNS GREATER THAN 75 FEET TO THE FIRST DEVICE SHALL BE NO. 10 AWG.
   3.D. LIGHTING, POWER, AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY.
   3.E. PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.
   3.F. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
4. LIGHTING:
   4.A. PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING AND SWITCHING DUTY AS SHOWN ON THE DRAWINGS.
   4.B. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
5. POWER:
   5.A. PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING SHOWN.
   5.B. FOR OTHER THAN 15 OR 20 AMP SINGLE PHASE RECEPTACLE BRANCH CIRCUITS PROVIDE A DEDICATED HOMERUN TO THE PANEL.
   5.C. FOR 30 AMP BRANCH CIRCUITS PROVIDE #10 AWG CONDUCTORS.
   5.D. FOR 40 AMP AND LARGER BRANCH CIRCUITS PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE DRAWINGS.
   5.E. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
6. MECHANICAL EQUIPMENT: PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

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PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

GENERAL NOTES

SHEET #
E0.02

DATE/TIME PRINTED:

ELECTRICAL SPECIFICATIONS

ELECTRICAL, GENERAL PROVISIONS

A. SCOPE OF WORK

1 PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMPLISH THE WORK SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS

2. COORDINATE WORK WITH ALL OTHER TRADES

3 VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID

4. REMOVE ALL WASTE AND RUBBISH FROM THE SITE ON A DAILY BASIS

5 THE EXISTING FIRE ALARM SYSTEM MUST REMAIN IN OPERATION AT ALL TIMES PROVIDE A "FIRE WATCH" ANYTIME THE EXISTING FIRE ALARM IS TAKEN OUT OF SERVICE.

B WARRANTY WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER

C REGULATIONS

1 ELECTRICAL WORK SHALL COMPLY WITH THE FOLLOWING CODES AS PRESENTLY APPLICABLE

a NATIONAL ELECTRICAL CODE (NEC)

b WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE (NREC)

c WASHINGTON ADMINISTRATIVE CODE (WAC)

d LOCAL AND STATE CODES AND REGULATIONS

2 PERMITS OBTAIN AND PAY FOR ALL REQUIRED PERMITS

3 SAFETY MEASURES PROVIDE A SAFE ENVIRONMENT TO PROTECT EMPLOYEES AND ALL OTHERS FROM INJURY COMPLY WITH "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION," VOLUME 36, NO. 75, PART II, OF THE FEDERAL REGISTER BY THE U.S DEPARTMENT OF LABOR

D SUBMITTAL AND SHOP DRAWINGS PRIOR TO INSTALLATION, SUBMIT CATALOG DATA FOR ALL EQUIPMENT AND MATERIALS FOR REVIEW SUBMIT SHOP DRAWINGS SHOWING COMPLETE TERMINAL-TO-TERMINAL WIRING FOR EACH SPECIAL SYSTEM THREE COPIES REQUIRED.

E OPERATIONS AND MAINTENANCE MANUALS PROVIDE MAINTENANCE AND OPERATIONS DATA FOR ALL ELECTRICAL EQUIPMENT AND SPECIAL SYSTEMS THREE COPIES ARE REQUIRED

F RECORD DRAWINGS CORRECTIONS AND CHANGES MADE DURING THE PROGRESS OF THE WORK SHALL BE NEATLY RECORDED AS ACTUALLY INSTALLED FOR AS-BUILT RECORDS SUBMIT TO THE OWNER UPON PROJECT COMPLETION

G. CERTIFICATES OF INSPECTION SUBMIT SIGNED-OFF PERMITS FROM THE CODE ENFORCING AGENCIES TO THE OWNER UPON PROJECT COMPLETION

H PRODUCT LISTING OR LABELING ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS' LABORATORIES, INC

I MATERIAL AND EQUIPMENT ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE OR CORROSION

J CUTTING AND PATCHING PROVIDE ALL REQUIRED CUTTING AND PATCHING FOR THE ELECTRICAL WORK

K. EXISTING CONDITIONS

1 GENERAL SPECIFIC SCOPE OF DEMOLITION WORK AND OPERATING CONDITIONS TO BE ENCOUNTERED SHALL BE VERIFIED BY ON-SITE REVIEW PRIOR TO SUBMITTING BID DEMOLITION WORK IN GENERAL IS NOTED OR SHOWN ON THE DOCUMENTS BASED UPON AVAILABLE "DRAWINGS OF RECORD" AND MAY NOT SHOW THE ACTUAL CONDITIONS AS THEY PRESENTLY EXIST

2 OWNER RETAINED EQUIPMENT THE OWNER MAY WISH TO RETAIN CERTAIN SPECIFIC ITEMS SCHEDULED FOR DEMOLITION THE CONTRACTOR SHALL CAREFULLY REMOVE THESE ITEMS, PROVIDE PROTECTION AND PACKAGING AS MAY BE REQUIRED TO PROTECT THE EQUIPMENT AND TURN OVER SAID EQUIPMENT TO THE OWNER AT A PLACE DESIGNATED ON THE JOBSITE ANY EQUIPMENT THAT THE OWNER DOES NOT DESIRE TO RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE

3 UNUSED CONDUIT AND WIRING ALL UNUSED CONDUCTORS IN EXISTING BUILDINGS SHALL BE REMOVED ALL UNUSED CONDUIT SHALL BE REMOVED EXCEPT WHERE LOCATED IN OR ABOVE EXISTING CONSTRUCTION WHICH IS NOT BEING ALTERED AND WOULD REQUIRE REMOVAL AND REPLACEMENT OF THE EXISTING CONSTRUCTION

4 EXISTING OPEN LOW-VOLTAGE WIRING PROPERLY SUPPORT AND MAINTAIN IN SERVICE ANY EXISTING SIGNAL/COMMUNICATION SYSTEM WIRING INSTALLED EXPOSED ABOVE SUSPENDED CEILINGS SECURE CABLES TO INDEPENDENT TIE WIRES SUSPENDED FROM STRUCTURE ABOVE

5 EXISTING RACEWAYS PROPERLY SUPPORT ALL EXISTING RACEWAYS ABOVE SUSPENDED CEILINGS WHERE WORK IS TAKING PLACE

L CONTINUITY OF SERVICE PERMANENTLY REROUTE OR RELOCATE EXISTING WIRING AND/OR EQUIPMENT WHICH IS IN CONFLICT WITH EXISTING BUILDING ALTERATIONS AND WHICH IS REQUIRED TO BE MAINTAINED IN USE

M REMOVAL AND REPLACEMENT OF EXISTING ACCESSIBLE CEILING PANELS, LIGHTING FIXTURES AND SPEAKERS REMOVE AND REINSTALL ALL NECESSARY CEILING PANELS, LIGHTING FIXTURES, SPEAKERS AND OTHER EXISTING EQUIPMENT IN EXISTING ACCESSIBLE CEILINGS AS REQUIRED TO INSTALL THE ELECTRICAL WORK.

N ANCHORAGE AND BRACING PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR THE LATERAL AND VERTICAL SUPPORT OF CONDUIT AND ELECTRICAL EQUIPMENT AS REQUIRED BY THE INTERNATIONAL BUILDING CODE (IBC).

O FIRESTOPPING: PROVIDE FIRESTOPPING FOR ALL PENETRATION IN RATED WALLS, CEILINGS AND FLOORS

P PAINTING. PAINT ALL EXPOSED RACEWAYS, EXCEPT SMR, IN FINISHED AREAS TO MATCH ADJACENT SURFACES

Q. INSTRUCTION CONTRACTOR SHALL INSTRUCT THE OWNER IN THE USE AND OPERATION OF ALL SYSTEMS INSTALLED UNDER THE SCOPE OF THIS CONTRACT

BASIC MATERIALS AND METHODS

A. RACEWAYS AND FITTINGS

1 RACEWAYS

a RIGID METALLIC CONDUIT ZINC-COATED STEEL WITH FULL THREADED CONNECTIONS

b ELECTRICAL METALLIC TUBING (EMT) ZINC-COATED STEEL

c RIGID NONMETALLIC CONDUIT RIGID PVC, SCHEDULE 40, UL LISTED FOR DIRECT BURIAL OR CONCRETE ENCASEMENT

d FLEXIBLE METALLIC CONDUIT GALVANIZED STEEL, SECURELY INTERLOCKED

e LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT GALVANIZED STEEL, INTERLOCKED WITH INTEGRAL GROUND CONDUCTOR AND PVC JACKET OVERALL

2 FITTINGS

a. RIGID METALLIC CONDUIT

1) COUPLINGS THREADED METALLIC TYPE OF THE SAME MATERIAL AS THE CONDUIT

2) LOCKNUTS STEEL UP TO 2 INCHES, MALLEABLE IRON FOR 2-1/2 INCHES AND LARGER

3) BUSHINGS BAKELITE OR PLASTIC UP TO 2 INCHES, MALLEABLE IRON WITH INSULATING COLLAR FOR 2-1/2 INCHES AND LARGER

4) UNIONS ZINC PLATED MALLEABLE IRON, 3 PIECE CONDUIT COUPLING

b ELECTRICAL METALLIC TUBING (EMT) 1-1/2" AND SMALLER SHALL BE RAINTIGHT TYPE STEEL EMPLOYING A SPLIT CORRUGATED RING AND TIGHTENING NUT FITTINGS 2" AND LARGER SHALL BE STEEL AND MAY BE SETSCREW TYPE CONTAINING DUAL SETSCREWS ON EACH SIDE OF COUPLING

c RIGID NONMETALLIC CONDUIT SLIP-ON, NONTHREADED TYPE OF SAME MATERIAL AS CONDUIT

d FLEXIBLE METALLIC CONDUIT STEEL, ONE- OR TWO-SCREW CLAMP TYPE

e LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT GALVANIZED STEEL, COMPRESSION TYPE

3 CONDUIT STRAPS HEAVY DUTY, TWO-HOLE PRESSED STEEL.

B OUTLET, JUNCTION AND PULL BOXES

1 OUTLET AND DEVICE BOXES:

a INTERIOR SURFACE-MOUNTED IN UNFINISHED AREAS ONE-PIECE PRESSED STEEL, ELECTRO-GALVANIZED, SIZE AND DEPTH REQUIRED BY CODE, EXCEPT 4-INCH SQUARE OR 4-INCH OCTAGONAL MINIMUM

b INTERIOR FLUSH-MOUNTED: SAME AS ABOVE EXCEPT PROVIDE PLASTER RING EXTENSION TO FINISHED SURFACE.

c INTERIOR SURFACE-MOUNTED, FINISHED AREAS WIREMOLD NO 5700 SERIES SIZED TO FIT STANDARD WIRING DEVICE AND FOR FIRE ALARM DEVICES PROVIDE BOXES WITH A FACTORY APPLIED RED FINISH (SPECIAL ORDER PRODUCT). VERIFY DEVICE BOX REQUIREMENTS WITH THE FIRE ALARM SUPPLIER.

d EXTERIOR MOUNTED CAST, NON-FERROUS METAL WITH THREADED HUBS REQUIRED, CAST GASKETTED COVERS

2 JUNCTION AND PULL BOXES

a. INTERIOR AREAS STEEL, SCREW COVER, CODE GAUGE AND SIZE LARGE JUNCTION AND PULL BOXES SHALL BE FABRICATED SHEET STEEL WITH BAKED ENAMEL FINISH AND RETURN FLANGE WITH SCREW RETAINED COVER

b EXTERIOR CAST, NON-FERROUS METAL WITH CAST, GASKETTED COVERS, OR SHEET STEEL, HOT-DIP GALVANIZED AFTER FABRICATION, NO KO'S, WITH GASKETTED SCREW COVER

C WIRING DEVICES

1 APPROVED MANUFACTURERS COOPER, HUBBELL, LEVITON OR PASS & SEYMOUR ALL PART NUMBERS REFER TO HUBBELL

2 COLOR OF SWITCH HANDLES AND RECEPTACLE FACES COLOR SHALL BE IVORY FOR NORMAL SERVICES AND RED FOR ALL SERVICES AUTOMATICALLY FED FROM THE EMERGENCY GENERATOR

3 RECEPTACLES

a DUPLEX RECEPTACLES SPECIFICATION-GRADE, 15 AMPERE, 125 VOLT GROUNDED TYPE, 5262 SERIES

b DEDICATED DUPLEX RECEPTACLES SPECIFICATION-GRADE, 20-AMPERE, 125-VOLT GROUNDED, 5362 SERIES

c GROUND FAULT INTERRUPTION RECEPTACLE SPECIFICATION-GRADE, 20 AMPERE, 120 VOLTS, CLASS A, 5-MILLIAMPERE SENSITIVITY, GF5262 SERIES

4. SWITCHES

a SINGLE-POLE SWITCHES SPECIFICATION-GRADE, 20 AMPERE, 1221 SERIES

b. THREE-WAY SWITCHES SPECIFICATION-GRADE, 20 AMPERE, 1223 SERIES

D DEVICE PLATES SATIN FINISH STAINLESS STEEL PASS AND SEYMOUR/SIERRA 302 "S" LINE OR EQUAL.

I EXECUTION

1 GENERAL

a COORDINATION THE CONTRACTOR SHALL REVIEW ALL DRAWINGS, DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN. WHERE EQUIPMENT IS FURNISHED BY OTHERS, THE CONTRACTOR SHALL ASCERTAIN THE PROPER VOLTAGE, LOAD AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN

b MATERIALS ALL MATERIALS OF A SPECIFIC TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER THROUGHOUT THE PROJECT

2 RACEWAYS

a. RACEWAY TYPES INSTALL RACEWAY TYPES AND SIZES AS LISTED BELOW

1) RIGID METALLIC CONDUIT IN CONCRETE AND MASONRY AND EXPOSED EXTERIORS

2) ELECTRICAL METALLIC TUBING (EMT) ALL AREAS OTHER THAN ABOVE MAY BE USED FOR FEEDERS WITH INTEGRAL GREEN GROUND CONDUCTOR

3) RIGID NONMETALLIC CONDUIT EXTERIOR UNDERGROUND INSTALLATIONS, DIRECT BURIED FOR LIGHTING RACEWAYS 90 DEGREE ELBOWS TO BE GALVANIZED RIGID STEEL.

4) FLEXIBLE METALLIC CONDUIT RECESSED FIXTURE CONNECTIONS, INTERIOR CONCEALED EQUIPMENT CONNECTIONS, EXPANSION JOINTS AND SOUND CONTROL NOT TO BE USED EXPOSED INSTALLATIONS WITHIN THE BUILDING

5) LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT EXTERIOR EQUIPMENT CONNECTIONS

6) MINIMUM RACEWAY SIZE SHALL BE 3/4 INCH, EXCEPT FOR RACEWAYS WITH NO MORE THAN THREE #12 AWG CONDUCTORS WHICH MAY BE 1/2"

b. INSTALLATION

1) CONCEALMENT ALL RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS WHERE EXISTING WALL SURFACES ARE INACCESSIBLE, SURFACE METAL RACEWAYS FOR THESE EXCEPTIONS MAY BE PROVIDED WHEN APPROVED

2) EXPOSED RACEWAYS INSTALL EXPOSED RACEWAYS AS HIGH AS POSSIBLE, ABOVE DUCTWORK, PARALLEL OR AT RIGHT ANGLES TO BUILDING LINES

3) EXPANSION AND EARTHQUAKE JOINTS RACEWAYS SHALL NOT BE INSTALLED IN CONCRETE SLAB OR WALL CONSTRUCTION WHEN PASSING THROUGH AN EXPANSION OR EARTHQUAKE JOINT RACEWAYS SHALL BE INSTALLED IN FURRED OR SUSPENDED CEILING SPACES WITH A MINIMUM OF 24 INCHES OF FLEXIBLE CONDUIT CROSSING THE EXPANSION OR EARTHQUAKE JOINTS

4) ROUTING ALL RACEWAYS SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO THE BUILDING CONSTRUCTION UNLESS PROHIBITED BY A PHYSICAL OBSTRUCTION

5) RACEWAY SUPPORTS RACEWAYS SHALL BE SUPPORTED WITH HEAVY-DUTY, ONE-HOLE, PRESSED STEEL STRAPS ON INTERIOR SURFACES SUPPORT PENDANT-MOUNTED RACEWAYS ON 3/8-INCH ROD WITH PEAR-SHAPED HANGER OR TRAPEZE-TYPE HANGER WITH 3/8-INCH ROD (MINIMUM) AND 1-5/8-INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS PARALLEL, SURFACE-MOUNTED RACEWAYS SHALL BE SUPPORTED FROM 1-5/8-INCH SQUARE PREFORMED CHANNEL AND PIPE CLAMPS ALL FITTINGS AND SUPPORTS SHALL BE HOT-DIP GALVANIZED IN EXTERIOR AREAS

6) INDEPENDENT SUPPORT CONDUITS SHALL NOT BE SUPPORTED FROM THE CEILING SUSPENSION SYSTEM, DUCTS, PIPES OR OTHER SYSTEMS FOREIGN TO THE ELECTRICAL INSTALLATION THE ENTIRE ELECTRICAL INSTALLATION SHALL BE KEPT INDEPENDENT FROM ANY OTHER TRADE

7) PULLBOXES WITH COVERS SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE ALL PULLBOXES SHALL BE LOCATED SO AS TO BE ACCESSIBLE

8) FLEXIBLE CONDUIT SHALL BE USED ONLY FOR LIGHTING FIXTURE PIGTAILS IN ACCESSIBLE CEILINGS, FLUSH-MOUNTED SPEAKER PIGTAILS IN ACCESSIBLE CEILINGS, SOUND CONTROL, MOTOR CONNECTIONS AND AT BUILDING EXPANSION JOINTS AS SPECIFIED. ANY OTHER PROPOSED USE OF FLEXIBLE CONDUIT MUST BE APPROVED PRIOR TO INSTALLATION

9) PENETRATIONS RACEWAYS WHICH PASS THROUGH BUILDING ROOF, EXTERIOR WALLS OF BUILDING ABOVE OR BELOW GRADE AND FLOOR SLABS ON GRADE SHALL BE SEALED ON THE INTERIOR SIDE OF THE BUILDING USING NON-HARDENING SEALING COMPOUND AFTER ALL CONDUCTORS HAVE BEEN INSTALLED IN THE RACEWAY SEALING MATERIAL SHALL BE SPECIFICALLY DESIGNED FOR ELECTRICAL WIRING SYSTEMS

10) CONDUIT PASSING THROUGH BUILDING ROOF PROVIDE A 4 LB LEAD PLUMBING VENT FLASHING WITH A COUNTERFLASHING ATTACHED ABOVE USING A GALVANIZED STEEL CLAMP

11) CONDUIT PENETRATING MEMBRANES ALL CONDUITS PENETRATING WALLS OR SLABS WITH MEMBRANES SHALL BE INSTALLED WITH APPROVED MEMBRANE CLAMPING DEVICES IN ORDER TO PROVIDE NECESSARY SEAL.

12) EXTERIOR WALLS CONDUITS PASSING THROUGH EXTERIOR WALLS BELOW GRADE AND/OR BRIDGING AN AREA WHICH WAS PREVIOUSLY EXCAVATED AND BACKFILLED SHALL BE RIGIDLY SUPPORTED BY A STRUCTURALLY REINFORCED CONCRETE DUCT BANK SPANNING BETWEEN THE BUILDING WALL AND A BEARING SURFACE ON UNDISTURBED EARTH

13) EMPTY RACEWAYS PROVIDE A NYLON PULL STRING IN ALL EMPTY RACEWAYS

3 SURFACE METAL RACEWAY (SMR)

a. GENERAL PROVIDE DIVIDERS, COVERS, ENTRANCE FITTINGS, ELBOWS, OFFSETS AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION

b. GROUNDING: PROVIDE A SEPARATE CONTINUOUS UNBROKEN GROUND CONDUCTOR FOR ALL LIGHTING AND POWER CIRCUITS RUN IN SMR

c ONE-PIECE RACEWAY PROVIDE WHERE RACEWAYS CANNOT BE CONCEALED IN FINISHED AREAS

d TWO-PIECE DUAL CHANNEL RACEWAY PROVIDE WHERE SHOWN ON THE DRAWINGS

4 WIRE AND CABLE

a BRANCH CIRCUITS BRANCH CIRCUITS SHALL BE NO 12 AWG MINIMUM, COLOR-CODED AS LISTED BELOW HOMERUNS GREATER THAN 75 FEET TO FIRST OUTLET SHALL BE NO. 10 MINIMUM

b FEEDERS FEEDERS SHALL BE SIZED AS SHOWN ON THE DRAWINGS AND COLOR-CODED IN ACCORDANCE WITH LIST BELOW MAKE NO SPLICES UNLESS SHOWN ON THE PLANS

c COLOR CODING REQUIREMENTS

1) 120/208-VOLT, 3-PHASE, 4-WIRE SYSTEMS

PHASE A. BLACK
PHASE B: RED
PHASE C: BLUE
NEUTRAL WHITE
GROUND: GREEN
TRAVELERS YELLOW (FOR 3- AND 4-WAY SWITCHING)
CONTROLS BLACK WITH WIRE NUMBERS ON EACH CONDUCTOR

2) 277/480-VOLT, 3-PHASE, 3 AND 4-WIRE SYSTEMS

PHASE A: BROWN
PHASE B: ORANGE
PHASE C: YELLOW
NEUTRAL GRAY
GROUND: GREEN
TRAVELERS LAVENDER

d SPLICES AND TERMINATIONS LIGHTING AND RECEPTACLE BRANCH CIRCUIT CONDUCTORS UP TO NO. 10 AWG SHALL BE SPLICED WITH WING NUT TYPE CONNECTORS

e HOME RUNS BRANCH CIRCUIT CONDUCTORS SHALL BE HOME RUN TO PANELBOARDS OR MOTOR CONTROL CENTERS IN GROUPINGS AS SHOWN ON THE DRAWINGS COMBINING BRANCH CIRCUIT HOME RUN CONDUCTORS IN SINGLE CONDUITS OTHER THAN THAT SHOWN, WILL NOT BE PERMITTED

5 BOXES AND FITTINGS

a GENERAL BOXES SHALL BE SUPPORTED SECURELY AND INDEPENDENTLY MOUNT BOXES ON BUILDING SURFACES OR SUPPORT WITH TRAPEZE HANGER AS DESCRIBED IN RACEWAY INSTALLATION JUNCTION BOXES SHALL NOT BE USED UNLESS THE NUMBER OF BENDS, PULLING LENGTH, OR CIRCUIT REQUIREMENTS NECESSITATES THEIR INSTALLATION JUNCTION OR PULLBOX OPENINGS MUST BE ACCESSIBLE

b SOUND CONTROL. WHERE BOXES ARE MOUNTED IN A COMMON WALL, THEY SHALL WHEREVER POSSIBLE, BE OFFSET HORIZONTALLY SO THAT THEY ARE NOT MOUNTED BACK-TO-BACK. CONNECT OFFSET BOXES WITH FLEXIBLE CONDUIT NOT TO EXCEED 18 INCHES IN LENGTH

6 WIRING DEVICES

a GENERAL INSTALL DEVICES LEVEL, PLUMB AND SQUARE WITH BUILDING LINES

b SWITCH LOCATIONS LOCATE SWITCHES 6 INCHES FROM DOOR CASING

c MOUNTING HEIGHTS HEIGHT OF DEVICES TO THE CENTER LINE OF THE BOX SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

SWITCH +48"
RECEPTACLE +18"
ABOVE COUNTER RECEPTACLES BOTTOM OF BOX TO BE 1" ABOVE BACKSPLASH OR COUNTER

7 GROUNDING

a GENERAL. PROVIDE THROUGH THE ENTIRE ELECTRICAL SYSTEM A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL LIGHTING AND POWER RACEWAYS

b BONDING INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE SWITCHBOARD GROUND BUS OR PANEL GROUND BUS AT BOTH ENDS OF FEEDER RACEWAYS INSULATED GROUNDING BUSHINGS SHALL BE INSTALLED TO BOND ALL FEEDER CONDUITS TO THE GROUND BUS OR PANEL ENCLOSURES AT BOTH ENDS OF THE RUNS

c NEUTRAL GROUNDING THE NEUTRAL POINT OF ALL RADIALLY OPERATED TRANSFORMERS SHALL BE SOLIDLY GROUNDED TO THE GROUNDING SYSTEM AND TRANSFORMER ENCLOSURE WITH CODE SIZE GROUND CONDUCTORS THE NEUTRAL BUS IN EACH PANELBOARD SHALL BE ISOLATED FROM GROUND THE NEUTRAL SHALL BE GROUNDED ONLY AT A SINGLE POINT AT THE MAIN SWITCHBOARD OR AT SEPARATELY DERIVED SYSTEM TRANSFORMERS

d TRANSFORMER GROUNDING. SECONDARY NEUTRAL OF ALL TRANSFORMERS SHALL BE SOLIDLY GROUNDED THE CONDUIT SYSTEM SHALL NOT BE CONSIDERED AN ADEQUATE GROUND

e RECEPTACLE GROUNDING CONNECT THE GROUND TERMINAL OF ALL RECEPTACLES BY UTILIZING A SEPARATE GROUNDING CONDUCTOR BETWEEN THE RECEPTACLE GROUNDING SCREW AND THE GROUND CONDUCTOR PROVIDED IN THE BRANCH CIRCUIT. INTEGRAL MOUNTING STRAPS WITHIN THE RECEPTACLE CONNECTED TO THE DEVICE MOUNTING STRAPS ARE NOT APPROVED AS A GROUNDING METHOD.

f FLEXIBLE CONDUIT GROUNDING PROVIDE A SEPARATE GROUNDING CONDUCTOR IN ALL FLEXIBLE CONDUIT RUNS INCLUDING WATERTIGHT FLEXIBLE CONDUIT WITH INTEGRAL GROUNDING STRAPS INSTALL GROUND CONDUCTOR INSIDE CONDUIT WITH UNGROUNDED CONDUCTORS

g GROUND CONNECTIONS GROUND CONNECTIONS TO BUILDING STEEL, GROUND RODS AND CABLE TAPS SHALL UTILIZE AN EXOTHERMIC WELDING PROCESS CADWELD, ERICO PRODUCTS, INC., OR APPROVED EQUAL.

8. OWNER-FURNISHED EQUIPMENT PROVIDE COMPLETE ELECTRICAL SERVICE AND CONNECTION TO ALL OWNER-FURNISHED EQUIPMENT

9 IDENTIFICATION IN GENERAL, LABEL ALL JUNCTION BOXES, TERMINAL CABINETS, ETC., WITH THE CIRCUIT NUMBER OR LOW-VOLTAGE SYSTEM CONTAINED WITHIN. THE FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED

DISTRIBUTION EQUIPMENT

A PANELBOARDS

1 APPROVED MANUFACTURES GENERAL ELECTRIC, SIEMENS OR SQUARE D

2 DISTRIBUTION PANELS 277/480-VOLTS OR 120/208-VOLTS, 3-PHASE, 4-WIRE, COPPER BUS PANELS BOLT-ON MOLDED-CASE THERMAL-MAGNETIC TYPE CIRCUIT BREAKERS HAVING A MINIMUM INTERRUPTING RATING OF 42,000 AMPERES AND DOOR-WITHIN-DOOR COVERS

3 PANELBOARDS 277/480-VOLTS OR 120/208-VOLT, 3-PHASE, 4-WIRE, COPPER BUS PANELS, BOLT-ON MOLDED-CASE THERMAL-MAGNETIC-TYPE CIRCUIT BREAKERS HAVING A MINIMUM INTERRUPTING RATING OF 10,000 AMPERES AND DOOR-WITHIN-DOOR COVERS

B DRY-TYPE TRANSFORMERS TWO-WINDING, GENERAL PURPOSE WITH TWO 2 1/2% TAPS ABOVE AND TWO 2 1/2% TAPS BELOW RATED VOLTAGE IN GENERAL, 480-VOLT, 3-PHASE, 3-WIRE DELTA PRIMARY, 120/208-VOLT, 3-PHASE, 4-WIRE WYE SECONDARY TRANSFORMER EFFICIENCY SHALL COMPLY WITH NEMA TP-1 TRANSFORMERS SHALL BE INSTALLED ON ISOLATORS TO MINIMIZE TRANSMISSION OF NOISE

C DISCONNECT SWITCHES

1 APPROVED MANUFACTURES GENERAL ELECTRIC, SIEMENS OR SQUARE D.

2 SINGLE-PHASE MOTOR MOTORS 1/3 HP OR LESS PROVIDE WITH TOGGLE-TYPE, 20-AMP, 120-VOLT RATING, SPECIFICATION-GRADE DISCONNECT SWITCHES

3 THREE-PHASE MOTOR MOTORS 1/2 HP AND LARGER PROVIDE WITH HORSEPOWER-RATED, HEAVY-DUTY, 30 AMPERE MINIMUM, 3-POLE DISCONNECT SWITCHES

4 EQUIPMENT DISCONNECTS SHALL BE FUSED OR NONFUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER, RATED AT 125% OF FULL LOAD NAMEPLATE AMPERAGE OR RATED HORSEPOWER HEAVY-DUTY TYPE

D FUSES

1 APPROVED MANUFACTURES BUSSMAN, FERREZ SHAWMUT OR LITTLEFUSE.

2. PROVIDE 200,0-00 AIC, CURRENT LIMITING, UL TIME DELAY FUSES AS FOLLOWS

a FOR FEEDERS 601-6000 AMPS CLASS L, KRP-C TIME DELAY

b FOR FEEDERS 600 AMPS AND LESS CLASS RK-1, LPN-RK FOR 250-VOLT, DUAL ELEMENT, CLASS RK-1, LPS-RK FOR 600-VOLT, DUAL ELEMENT

c. FOR MOTOR CIRCUIT 600 VOLTS AND BELOW CLASS RK-1 OR CLASS J SIZED AT 125% FLC OF MOTOR

E MOTOR CONTROLS

1 APPROVED MANUFACTURERS GENERAL ELECTRIC, SIEMENS OR SQUARE D

2. MANUAL STARTERS TOGGLE TYPE, LOCKABLE IN THE OFF POSITION, OVERLOAD PROTECTION, PILOT LIGHT AND NEMA 1 ENCLOSURE

3 MAGNETIC STARTERS FULL VOLTAGE, NON-REVERSING, OR MULTI-SPEED WHERE SHOWN, NEMA 1 (MINIMUM), 3-LEG OVERLOAD PROTECTION, 120-VOLT CONTROL, RED AND GREEN PILOT LIGHTS AND HAND-OFF-AUTOMATIC SWITCH ON COVER, CONTROL TRANSFORMER, 2-N.O. AND 2-N.C. AUXILIARY CONTACTS AND SOLID-STATE OVERLOAD PROTECTION

4 COMBINATION STARTERS FULL VOLTAGE, NON-REVERSING AS SPECIFIC ABOVE WITH INTEGRAL FUSED DISCONNECT SWITCH AND DUAL ELEMENT TIME DELAY FUSES

F TRANSIENT VOLTAGE SURGE SUPPRESSORS PANEL MOUNT, 120/280 VOLT, 3 PHASE, 4 WIRE PLUS GROUND CONFORMING TO UL STANDARD 1449 AND IEEE C62 41-1980 CATEGORY A AND B SUPPRESSION RESPONSE UNITS SHALL BE OF THE ACROSS-THE-LINE MODULE DESIGN TYPE WITH HYBRID TVSS CIRCUITRY, DIAGNOSTIC LEDS AND EMI/RFI FILTERS

F. EXECUTION

1 PANELBOARDS

a MOUNTING WHERE PANELBOARDS ARE TO BE INSTALLED AGAINST PLASTERBOARD WALLS, PROVIDE SEPARATE SUPPORT CHANNELS SECURED TO BLOCKING BETWEEN STEEL STUDS COORDINATE BLOCKING WORK WITH THE GYPSUM WALLBOARD CONTRACTOR. PANELS SHALL NOT BE SECURED DIRECTLY TO GYPSUM WALLBOARD MATERIAL.

b SPARE CONDUIT PROVIDE FOUR (4) 3/4-INCH SPARE CONDUITS STUBBED INTO CEILING SPACE FROM EACH FLUSH-MOUNTED PANELBOARD

c EXISTING PANELBOARDS PROVIDE NEW BRANCH CIRCUIT BREAKERS, INCLUDING ASSOCIATED MOUNTING HARDWARE, TO SERVE NEW LOADS

2 DRY-TYPE TRANSFORMERS

a INSTALLATION TRANSFORMERS SHALL BE CEILING- OR WALL-MOUNTED AS INDICATED ON THE PLANS, SHALL BE SUPPORTED BY RUBBER-IN-SHEAR MOUNTS OF A TYPE SUITABLE FOR THE INSTALLATION THESE MOUNTS ARE IN ADDITION TO ISOLATION MOUNTS SUPPORTING THE CORE WITHIN THE HOUSING

b CONDUIT CONNECTIONS PROVIDE FLEXIBLE CONDUIT CONNECTIONS, EVERY EFFORT SHALL BE MADE TO PREVENT RADIATION OF NOISE INTO ADJACENT AREAS OF BUILDING FOR THE ENTIRE TIME PRIOR TO INSTALLATION, TRANSFORMERS MUST BE KEPT FREE FROM MOISTURE, UTILIZING INCANDESCENT LAMPS WITHIN HOUSING OR SIMILAR METHODS

3 MOTOR CONTROLS AND EQUIPMENT CONNECTIONS

a GENERAL PROVIDE ALL LINE VOLTAGE WIRING AND CONNECTIONS TO EQUIPMENT AND MOTORS AS SHOWN ON THE PLANS, DIAGRAMS OR SPECIFIED HEREIN OBTAIN ALL NECESSARY ELECTRICAL AND PHYSICAL INFORMATION FROM THE TRADE PROVIDING THE EQUIPMENT, PRIOR TO ROUGH-IN AND ADJUST INSTALLATION REQUIREMENTS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.

b MOTOR CONTROLS, SEPARATELY MOUNTED: PROVIDE SEPARATELY MOUNTED MOTOR STARTING EQUIPMENT AS SHOWN OR NOTED COORDINATE LOCATION AND INTERLOCKING WITH TEMPERATURE CONTROLS CONTRACTOR VERIFY MOTOR HORSEPOWER SIZE OR FULL-LOAD AMPERAGE PRIOR TO ORDERING OVERLOAD HEATERS AND SIZE UNITS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE

c ISOLATION ALL ROTATING AND AIR HANDLING EQUIPMENT SHALL BE CONNECTED WITH FLEXIBLE CONDUIT TO PROVIDE SOUND AND VIBRATION ISOLATION

d TESTING AFTER ALL WIRING TO EACH UNIT IS COMPLETE, COOPERATE WITH MECHANICAL CONTRACTOR IN TESTING EQUIPMENT FOR PROPER OPERATION; SHALL CORRECT WIRING AS REQUIRED FOR PROPER OPERATION

4. DISCONNECTS

a GENERAL PROVIDE DISCONNECTS AT ALL MOTORS AND OTHER EQUIPMENT ITEMS UNLESS THE EQUIPMENT HAS A SELF-CONTAINED, CODE APPROVED DISCONNECTING METHOD EQUIPMENT DISCONNECTS SHALL BE FUSED OR NON-FUSED AS REQUIRED BY THE EQUIPMENT MANUFACTURER

b MOUNTING COORDINATE MOUNTING LOCATION WITH EQUIPMENT INSTALLATION CONTRACTOR AND ARCHITECT IN GENERAL, MOUNTING HEIGHT TO BE 6'0" MAXIMUM ABOVE FLOOR MOUNT ON EQUIPMENT FRAMING OR PROVIDE INDEPENDENT SUPPORT SYSTEM CONSISTING OF 1-5/8-INCH SQUARE PREFORMED CHANNELS MINIMUM

LIGHTING

A LABELS PROVIDE UL LABELS ON ALL NEW FIXTURES LIGHTING FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL HAVE LABEL "SUITABLE FOR DAMP LOCATIONS" OR "SUITABLE FOR WET LOCATIONS."

B REFER TO LUMINAIRE SCHEDULE

D WARRANTY

1 PROVIDE MANUFACTURER FIVE-YEAR LED DRIVER AND LAMP ASSEMBLY

2 COMPLETE AND SUBMIT MANUFACTURER WARRANTY REGISTRATION FORMS

E OCCUPANCY SENSORS

1 MANUFACTURERS WATT STOPPER

2 DUAL-TECHNOLOGY TYPE WATTSTOPPER DT-300 SERIES (CEILING MOUNT), WATTSTOPPER DT-200 SERIES (WALL MOUNT) WITH SEPARATELY WIRED POWER PACK AND ISOLATED RELAY OUTPUT UNLESS NOTED OTHERWISE

3 ULTRA-SONIC TYPE CEILING-MOUNTED WATTSTOPPER UT-300 SERIES WITH SEPARATELY WIRED POWER PACK AND ISOLATED RELAY OUTPUT

4 OCCUPANCY SENSOR SWITCHES WALL-MOUNTED WATTSTOPPER WS-200 SERIES UNLESS NOTED OTHERWISE

a TOILET ROOMS WATTSTOPPER UW-100 FOR CONTROLLING ONE CIRCUIT, WATTSTOPPER UW-200 FOR CONTROLLING TWO CIRCUITS

b ALL OTHER ROOMS WATTSTOPPER PW-100 SERIES UNLESS NOTED OTHERWISE

5 TIMER SWITCHES WALL-MOUNTED WATTSTOPPER TS-400 SERIES

F FIXTURE SUPPORT PROVIDE TWO SLACK WIRE SAFETY SUPPORT HANGERS FOR EACH RECESSED OR SURFACE MOUNTED FLUORESCENT FIXTURE INSTALLED ON THIS PROJECT SECURE SUPPORTS FROM OPPOSITE CORNERS OF EACH FIXTURE AND FASTEN TO STRUCTURE ABOVE INDEPENDENT OF CEILING SYSTEM

G FIXTURE ACCESSORIES

1 PROVIDE FRAMES, HANGERS, SPACERS, STEMS, ALIGNER CANOPIES, AUXILIARY JUNCTION BOXES AND OTHER HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION RECESSED FIXTURES SHALL HAVE FRAMES THAT ARE COMPATIBLE WITH THE CEILING SYSTEMS

2 FIXTURE LENSES ALL FIXTURE LENSES FURNISHED ARE TO BE PATTERN 12, NOMINAL 1/8-INCH THICK (0.125 MINIMUM) 100 PERCENT VIRGIN ACRYLIC PLASTIC UNLESS SPECIFIED OTHERWISE.

3 PREWIRED SPLICE BOXES PREWIRED SPLICE BOXES FOR RECESSED INCANDESCENT FIXTURES SHALL BE 4-INCH SQUARE TYPE OR EQUIVALENT WITH A MINIMUM OF FOUR 1/2" KNOCKOUTS AND SHALL COMPLY WITH CODE-REQUIRED SIZE FOR BRANCH CIRCUIT WIRING

4 CLEAR PLASTIC SLEEVES CLEAR PLASTIC SLEEVES SHALL BE INSTALLED OVER ALL FLUORESCENT LAMPS IN INDUSTRIAL TYPE FIXTURES

6 PROVIDE 6'0" LONG X 3/8-INCH FLEXIBLE CONDUIT PIGTAIL AND OUTLET BOX FOR EACH FIXTURE WHERE INSTALLED IN ACCESSIBLE-TYPE SUSPENDED CEILINGS

H LOCKING CLIPS ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL FOUR LOCKING CLIPS PER FIXTURE FOR ALL RECESSED 1X4, 2X2, AND 2X4 FIXTURES INSTALLED INTO EXPOSED T-BAR CEILING SUSPENSION SYSTEMS

K. EXECUTION

1 INSTALLATION OF FIXTURES

a ALL FIXTURES SHALL BE INSTALLED EXACTLY LEVEL, STRAIGHT AND SECURE CEILING FIXTURES SHALL BE TIGHT TO CEILING

b CONTRACTOR SHALL NOT INSTALL FIXTURE LENSES, DIFFUSERS, OR PARABOLIC LOUVERS ON FIXTURES UNTIL GENERAL CONSTRUCTION WORK IS COMPLETE, INCLUDING PAINTING DIRTY LENSES, DIFFUSERS, OR LOUVERS SHALL BE REMOVED, WASHED AND RINSED AS RECOMMENDED BY FIXTURE MANUFACTURER

2. FIXTURE SUPPORT WHERE FIXTURES ARE LOCATED SO THAT THEY CANNOT BE SUPPORTED BY CEILING FRAMING MEMBERS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL FRAMING OR HEADER BARS IN CEILING CONSTRUCTION AS REQUIRED TO SUPPORT FIXTURES

3. MOUNTING HEIGHTS OF WALL AND PENDANT-MOUNTED FIXTURES MOUNTING HEIGHTS OF PENDANT-MOUNTED FIXTURES SHOWN ON PLANS OR IN SPECIFICATIONS SHALL BE TO THE BOTTOM OF THE FIXTURE MOUNTING HEIGHTS OF THE WALL-MOUNTED FIXTURES SHALL BE TO THE CENTER OF THE OUTLET BOX UNLESS OTHERWISE NOTED

4 PENDENT-MOUNTED FIXTURES IN CONFLICT WITH DUCTS AND PIPING: ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION AND MOUNTING HEIGHTS OF THE LIGHTING FIXTURES IN MECHANICAL ROOMS WITH THE AVAILABLE SPACE LEFT BETWEEN THE VARIOUS DUCTS AND PIPING ANY ADVERSE SITUATION SHALL BE RESOLVED AS DIRECTED BY THE ARCHITECT

SPECIAL SYSTEMS

A. GENERAL

1 PROVIDE METALLIC RACEWAYS FOR CABLES INSTALLED IN WALLS, ABOVE INACCESSIBLE CEILINGS, EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE RACEWAY FILL SHALL NOT EXCEED 40%

2 EQUIPMENT AND WIRING SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN IS TO ASSIST THE CONTRACTOR IN PREPARING HIS BID ADDITIONAL EQUIPMENT AND WIRING MAY BE REQUIRED CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND WIRING AS DETERMINED BY THE EQUIPMENT MANUFACTURER SUBMITTAL SHALL INCLUDE RACEWAY AND WIRING LAYOUT

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PROJECT #	210223
BID SET	
ISSUE DATE	JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

ELECTRICAL SPECIFICATIONS

DATE/TIME PRINTED:

ENGINE GENERATOR

A. MANUFACTURERS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   - CATERPILLAR; ENGINE DIV.
   - GENERAC POWER SYSTEMS, INC.
   - KOHLER CO.; GENERATOR DIVISION
   - ONAN/CUMMINS POWER GENERATION; INDUSTRIAL BUSINESS GROUP.

B. ENGINE-GENERATOR SET

1. FACTORY-ASSEMBLED AND -TESTED, ENGINE-GENERATOR SET.
2. MOUNTING FRAME: MAINTAIN ALIGNMENT OF MOUNTED COMPONENTS WITHOUT DEPENDING ON CONCRETE FOUNDATION, AND HAVE LIFTING ATTACHMENTS
3. RIGGING DIAGRAM: INSCRIBED ON METAL PLATE PERMANENTLY ATTACHED TO MOUNTING FRAME TO INDICATE LOCATION AND LIFTING CAPACITY OF EACH LIFTING ATTACHMENT AND GENERATOR-SET CENTER OF GRAVITY.

C. CAPACITIES AND CHARACTERISTICS

1. POWER OUTPUT RATINGS: NOMINAL RATINGS AS INDICATED
2. OUTPUT CONNECTIONS: THREE-PHASE, FOUR WIRE.
3. NAMEPLATES: FOR EACH MAJOR SYSTEM COMPONENT TO IDENTIFY MANUFACTURER'S NAME AND ADDRESS, AND MODEL AND SERIAL NUMBER OF COMPONENTS

D. GENERATOR-SET PERFORMANCE

1. STEADY-STATE VOLTAGE OPERATIONAL BANDWIDTH: 3 PERCENT OF RATED OUTPUT VOLTAGE FROM NO LOAD TO FULL LOAD.
2. TRANSIENT VOLTAGE PERFORMANCE: NOT MORE THAN 20 PERCENT VARIATION FOR 50 PERCENT STEP-LOAD INCREASE OR DECREASE. VOLTAGE SHALL RECOVER AND REMAIN WITHIN THE STEADY-STATE OPERATING BAND WITHIN THREE SECONDS.
3. STEADY-STATE FREQUENCY OPERATIONAL BANDWIDTH: 0.5 PERCENT OF RATED FREQUENCY FROM NO LOAD TO FULL LOAD.
4. STEADY-STATE FREQUENCY STABILITY: WHEN SYSTEM IS OPERATING AT ANY CONSTANT LOAD WITHIN THE RATED LOAD, THERE SHALL BE NO RANDOM SPEED VARIATIONS OUTSIDE THE STEADY-STATE OPERATIONAL BAND AND NO HUNTING OR SURGING OF SPEED.
5. TRANSIENT FREQUENCY PERFORMANCE: LESS THAN 5 PERCENT VARIATION FOR 50 PERCENT STEP-LOAD INCREASE OR DECREASE. FREQUENCY SHALL RECOVER AND REMAIN WITHIN THE STEADY-STATE OPERATING BAND WITHIN FIVE SECONDS.
6. OUTPUT WAVEFORM: AT NO LOAD, HARMONIC CONTENT MEASURED LINE TO LINE OR LINE TO NEUTRAL SHALL NOT EXCEED 5 PERCENT TOTAL AND 3 PERCENT FOR SINGLE HARMONICS. TELEPHONE INFLUENCE FACTOR, DETERMINED ACCORDING TO NEMA MG 1, SHALL NOT EXCEED 50 PERCENT.
7. SUSTAINED SHORT-CIRCUIT CURRENT: FOR A 3-PHASE, BOLTED SHORT CIRCUIT AT SYSTEM OUTPUT TERMINALS, SYSTEM SHALL SUPPLY A MINIMUM OF 250 PERCENT OF RATED FULL-LOAD CURRENT FOR NOT LESS THAN 10 SECONDS AND THEN CLEAR THE FAULT AUTOMATICALLY, WITHOUT DAMAGE TO GENERATOR SYSTEM COMPONENTS.
8. GENERATOR-SET PERFORMANCE FOR SENSITIVE LOADS
   - NAMEPLATE DATA FOR OVERSIZED GENERATOR: SHOW RATINGS REQUIRED BY THE CONTRACT DOCUMENTS RATHER THAN RATINGS THAT WOULD NORMALLY BE APPLIED TO GENERATOR SIZE INSTALLED
9. STEADY-STATE VOLTAGE OPERATIONAL BANDWIDTH: 1 PERCENT OF RATED OUTPUT VOLTAGE FROM NO LOAD TO FULL LOAD.
10. TRANSIENT VOLTAGE PERFORMANCE: NOT MORE THAN 10 PERCENT VARIATION FOR 50 PERCENT STEP-LOAD INCREASE OR DECREASE. VOLTAGE SHALL RECOVER AND REMAIN WITHIN THE STEADY-STATE OPERATING BAND WITHIN 0.5 SECOND.
11. STEADY-STATE FREQUENCY OPERATIONAL BANDWIDTH: PLUS OR MINUS 0.25 PERCENT OF RATED FREQUENCY FROM NO LOAD TO FULL LOAD.
12. STEADY-STATE FREQUENCY STABILITY: WHEN SYSTEM IS OPERATING AT ANY CONSTANT LOAD WITHIN THE RATED LOAD, THERE SHALL BE NO RANDOM SPEED VARIATIONS OUTSIDE THE STEADY-STATE OPERATIONAL BAND AND NO HUNTING OR SURGING OF SPEED.
13. TRANSIENT FREQUENCY PERFORMANCE: LESS THAN 2-HZ VARIATION FOR 50 PERCENT STEP-LOAD INCREASE OR DECREASE. FREQUENCY SHALL RECOVER AND REMAIN WITHIN THE STEADY-STATE OPERATING BAND WITHIN THREE SECONDS.
14. OUTPUT WAVEFORM: AT NO LOAD, HARMONIC CONTENT MEASURED LINE TO NEUTRAL SHALL NOT EXCEED 2 PERCENT TOTAL WITH NO SLOT RIPPLE. TELEPHONE INFLUENCE FACTOR, DETERMINED ACCORDING TO NEMA MG 1, SHALL NOT EXCEED 50 PERCENT.
15. SUSTAINED SHORT-CIRCUIT CURRENT: FOR A 3-PHASE, BOLTED SHORT CIRCUIT AT SYSTEM OUTPUT TERMINALS, SYSTEM SHALL SUPPLY A MINIMUM OF 300 PERCENT OF RATED FULL-LOAD CURRENT FOR NOT LESS THAN 10 SECONDS AND THEN CLEAR THE FAULT AUTOMATICALLY, WITHOUT DAMAGE TO WINDING INSULATION OR OTHER GENERATOR SYSTEM COMPONENTS.
16. EXCITATION SYSTEM: PERFORMANCE SHALL BE UNAFFECTED BY VOLTAGE DISTORTION CAUSED BY NONLINEAR LOAD.

C. ENGINE

1. FUEL: FUEL OIL, GRADE DF-2.
2. RATED ENGINE SPEED: 1800 RPM.
3. MAXIMUM PISTON SPEED FOR FOUR-CYCLE ENGINES: 2250 FPM (11.4 M/S).
4. LUBRICATION SYSTEM: THE FOLLOWING ITEMS ARE MOUNTED ON ENGINE OR SKID.
5. FILTER AND STRAINER: RATED TO REMOVE 90 PERCENT OF PARTICLES 5 MICROMETERS AND SMALLER WHILE PASSING FULL FLOW.
6. THERMOSTATIC CONTROL VALVE: CONTROL FLOW IN SYSTEM TO MAINTAIN OPTIMUM OIL TEMPERATURE. UNIT SHALL BE CAPABLE OF FULL FLOW AND IS DESIGNED TO BE FAIL-SAFE.
7. CRANKCASE DRAIN: ARRANGED FOR COMPLETE GRAVITY DRAINAGE TO AN EASILY REMOVABLE CONTAINER WITH NO DISASSEMBLY AND WITHOUT USE OF PUMPS, SIPHONS, SPECIAL TOOLS, OR APPLIANCES.

D. ENGINE FUEL SYSTEM

1. MAIN FUEL PUMP: MOUNTED ON ENGINE. PUMP ENSURES ADEQUATE PRIMARY FUEL FLOW UNDER STARTING AND LOAD CONDITIONS.
2. RELIEF-BYPASS VALVE: AUTOMATICALLY REGULATES PRESSURE IN FUEL LINE AND RETURNS EXCESS FUEL TO SOURCE.

E. COOLANT JACKET HEATER: ELECTRIC-IMMERSION TYPE, FACTORY INSTALLED IN COOLANT JACKET SYSTEM.

F. COOLING SYSTEM: CLOSED LOOP, LIQUID COOLED, WITH RADIATOR FACTORY MOUNTED ON ENGINE-GENERATOR-SET MOUNTING FRAME AND INTEGRAL ENGINE-DRIVEN COOLANT PUMP.

G. MUFFLER/SILENCER: RESIDENTIAL TYPE, SIZED AS RECOMMENDED BY ENGINE MANUFACTURER AND SELECTED WITH EXHAUST PIPING SYSTEM TO NOT EXCEED ENGINE MANUFACTURER'S ENGINE BACKPRESSURE REQUIREMENTS.

1. MINIMUM SOUND ATTENUATION OF 18 DB AT 500 HZ.
2. SOUND LEVEL MEASURED AT A DISTANCE OF 10 FEET (3 M) FROM EXHAUST DISCHARGE AFTER INSTALLATION IS COMPLETE SHALL BE 95DBA OR LESS.

H. BATTERY-CHARGING ALTERNATOR: FACTORY MOUNTED ON ENGINE WITH SOLID-STATE VOLTAGE REGULATION AND 35-A MINIMUM CONTINUOUS RATING.

I. FUEL OIL STORAGE

1. COMPLY WITH NFPA 30.
2. CONTAINMENT: INTEGRAL RUPTURE BASIN WITH A CAPACITY OF 150 PERCENT OF NOMINAL CAPACITY OF DAY TANK.
3. LEAK DETECTOR: LOCATE IN RUPTURE BASIN AND CONNECT TO PROVIDE AUDIBLE AND VISUAL ALARM IN THE EVENT OF DAY-TANK LEAK.
4. TANK CAPACITY: AS RECOMMENDED BY ENGINE MANUFACTURER FOR AN UNINTERRUPTED PERIOD OF 24 HOURS' OPERATION AT 100 PERCENT OF RATED POWER OUTPUT OF ENGINE-GENERATOR SYSTEM WITHOUT BEING REFILLED.
5. LOW-LEVEL ALARM SENSOR: LIQUID-LEVEL DEVICE OPERATES ALARM CONTACTS AT 25 PERCENT OF NORMAL FUEL LEVEL.
6. BASE-MOUNTED FUEL OIL TANK: FACTORY INSTALLED AND PIPED, COMPLYING WITH UL 142 FUEL OIL TANK. FEATURES INCLUDE THE FOLLOWING:
7. TANK LEVEL INDICATOR
8. VANDAL-RESISTANT FILL CAP
9. CONTAINMENT PROVISIONS: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION

J. CONTROL AND MONITORING

1. AUTOMATIC STARTING SYSTEM SEQUENCE OF OPERATION: WHEN MODE-SELECTOR SWITCH ON THE CONTROL AND MONITORING PANEL IS IN THE AUTOMATIC POSITION, REMOTE-CONTROL CONTACTS IN THE AUTOMATIC TRANSFER SWITCH INITIATE STARTING AND STOPPING OF GENERATOR SET. WHEN MODE-SELECTOR SWITCH IS SWITCHED TO THE ON POSITION, GENERATOR SET STARTS. THE OFF POSITION OF SAME SWITCH INITIATES GENERATOR-SET SHUTDOWN. WHEN GENERATOR SET IS RUNNING, SPECIFIED SYSTEM OR EQUIPMENT FAILURES OR DERANGEMENTS AUTOMATICALLY SHUT DOWN GENERATOR SET AND INITIATE ALARMS.
2. MANUAL STARTING SYSTEM SEQUENCE OF OPERATION: SWITCHING ON-OFF SWITCH ON THE GENERATOR CONTROL PANEL TO THE ON POSITION STARTS GENERATOR SET. THE OFF POSITION OF SAME SWITCH INITIATES GENERATOR-SET SHUTDOWN. WHEN GENERATOR SET IS RUNNING, SPECIFIED SYSTEM OR EQUIPMENT FAILURES OR DERANGEMENTS AUTOMATICALLY SHUT DOWN GENERATOR SET AND INITIATE ALARMS. OPERATION OF A REMOTE EMERGENCY-STOP SWITCH ALSO SHUTS DOWN GENERATOR SET.
3. CONFIGURATION: OPERATING AND SAFETY INDICATIONS, PROTECTIVE DEVICES, BASIC SYSTEM CONTROLS, AND ENGINE GAGES SHALL BE GROUPED IN A COMMON CONTROL AND MONITORING PANEL MOUNTED ON THE GENERATOR SET. MOUNTING METHOD SHALL ISOLATE THE CONTROL PANEL FROM GENERATOR-SET VIBRATION.
4. COMMON REMOTE AUDIBLE ALARM: SIGNAL THE OCCURRENCE OF ANY EVENTS LISTED BELOW WITHOUT DIFFERENTIATING BETWEEN EVENT TYPES. CONNECT SO THAT AFTER AN ALARM IS SILENCED, CLEARING OF INITIATING CONDITION WILL REACTIVATE ALARM UNTIL SILENCING SWITCH IS RESET.
   - ENGINE HIGH-TEMPERATURE SHUTDOWN
   - LUBE-OIL, LOW-PRESSURE SHUTDOWN
   - OVERSPEED SHUTDOWN
   - ENGINE HIGH-TEMPERATURE PREALARM.
   - LUBE-OIL, LOW-PRESSURE PREALARM
   - FUEL TANK, LOW-FUEL LEVEL
   - LOW COOLANT LEVEL
5. REMOTE ALARM ANNUNCIATOR: AN LED LABELED WITH PROPER ALARM CONDITIONS SHALL IDENTIFY EACH ALARM EVENT AND A COMMON AUDIBLE SIGNAL SHALL SOUND FOR EACH ALARM CONDITION. SILENCING SWITCH IN FACE OF PANEL SHALL SILENCE SIGNAL WITHOUT ALTERING VISUAL INDICATION. CONNECT SO THAT AFTER AN ALARM IS SILENCED, CLEARING OF INITIATING CONDITION WILL REACTIVATE ALARM UNTIL SILENCING SWITCH IS RESET. CABINET AND FACEPLATE ARE SURFACE- OR FLUSH-MOUNTING TYPE TO SUIT MOUNTING CONDITIONS INDICATED

AUTOMATIC TRANSFER SWITCH

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   - CATERPILLAR; ENGINE DIV.
   - GENERAC POWER SYSTEMS, INC.
   - KOHLER POWER SYSTEMS, GENERATOR DIVISION.
   - ONAN/CUMMINS POWER GENERATION; INDUSTRIAL BUSINESS GROUP.
2. GENERAL TRANSFER-SWITCH PRODUCT REQUIREMENTS
3. SOLID-STATE CONTROLS: REPETITIVE ACCURACY OF ALL SETTINGS SHALL BE PLUS OR MINUS 2 PERCENT OR BETTER OVER AN OPERATING TEMPERATURE RANGE OF MINUS 20 TO PLUS 70 DEG C.
4. RESISTANCE TO DAMAGE BY VOLTAGE TRANSIENTS: COMPONENTS SHALL MEET OR EXCEED VOLTAGE-SURGE WITHSTAND CAPABILITY REQUIREMENTS WHEN TESTED ACCORDING TO IEEE C62.41. COMPONENTS SHALL MEET OR EXCEED VOLTAGE-IMPULSE WITHSTAND TEST OF NEMA ICS 1.
5. ELECTRICAL OPERATION: ACCOMPLISH BY A NONFUSED, MOMENTARILY ENERGIZED SOLENOID OR ELECTRIC-MOTOR-OPERATED MECHANISM, MECHANICALLY AND ELECTRICALLY INTERLOCKED IN BOTH DIRECTIONS.
6. SWITCH CHARACTERISTICS: DESIGNED FOR CONTINUOUS-DUTY REPETITIVE TRANSFER OF FULL-RATED CURRENT BETWEEN ACTIVE POWER SOURCES.
7. NEUTRAL SWITCHING: WHERE FOUR-POLE SWITCHES ARE INDICATED, PROVIDE NEUTRAL POLE SWITCHED SIMULTANEOUSLY WITH PHASE POLES.
8. NEUTRAL TERMINAL: SOLID AND FULLY RATED, UNLESS OTHERWISE INDICATED.
9. HEATER: EQUIP SWITCHES EXPOSED TO OUTDOOR TEMPERATURES AND HUMIDITY, AND OTHER UNITS INDICATED, WITH AN INTERNAL HEATER. PROVIDE THERMOSTAT WITHIN ENCLOSURE TO CONTROL HEATER.
10. FACTORY WIRING: TRAIN AND BUNDLE FACTORY WIRING AND LABEL, CONSISTENT WITH SHOP DRAWINGS. EITHER BY COLOR-CODE OR BY NUMBERED OR LETTERED WIRE AND CABLE TAPE MARKERS AT TERMINATIONS. COLOR-CODING AND WIRE AND CABLE TAPE MARKERS ARE SPECIFIED IN DIVISION 26 SECTION "IDENTIFICATION FOR ELECTRICAL SYSTEMS."
11. DESIGNATED TERMINALS: PRESSURE TYPE, SUITABLE FOR TYPES AND SIZES OF FIELD WIRING INDICATED.
12. POWER-TERMINAL ARRANGEMENT AND FIELD-WIRING SPACE: SUITABLE FOR TOP, SIDE, OR BOTTOM ENTRANCE OF FEEDER CONDUCTORS AS INDICATED.
13. CONTROL WIRING: EQUIPPED WITH LUGS SUITABLE FOR CONNECTION TO TERMINAL STRIPS.
14. ENCLOSURES: GENERAL-PURPOSE NEMA 250, TYPE 3R, COMPLYING WITH NEMA ICS 6 AND UL 508, UNLESS OTHERWISE INDICATED.
15. COMPLY WITH LEVEL 1 EQUIPMENT ACCORDING TO NFPA 110.
16. SWITCHING ARRANGEMENT: DOUBLE-THROW TYPE, INCAPABLE OF PAUSES OR INTERMEDIATE POSITION STOPS DURING NORMAL FUNCTIONING, UNLESS OTHERWISE INDICATED.
17. MANUAL SWITCH OPERATION: UNLOADED, CONTROL CIRCUIT AUTOMATICALLY DISCONNECTS FROM ELECTRICAL OPERATOR DURING MANUAL OPERATION.
18. DIGITAL COMMUNICATION INTERFACE: MATCHED TO CAPABILITY OF REMOTE ANNUNCIATOR OR ANNUNCIATOR AND CONTROL PANEL.
19. AUTOMATIC TRANSFER-SWITCH FEATURES
20. ADJUSTABLE TIME DELAY: FOR OVERRIDE OF NORMAL-SOURCE VOLTAGE SENSING TO DELAY TRANSFER AND ENGINE START SIGNALS. ADJUSTABLE FROM ZERO TO SIX SECONDS, AND FACTORY SET FOR ONE SECOND.
21. VOLTAGE/FREQUENCY LOCKOUT RELAY: PREVENT PREMATURE TRANSFER TO GENERATOR. PICKUP VOLTAGE SHALL BE ADJUSTABLE FROM 85 TO 100 PERCENT OF NOMINAL, FACTORY SET FOR PICKUP AT 90 PERCENT. PICKUP FREQUENCY SHALL BE ADJUSTABLE FROM 90 TO 100 PERCENT OF NOMINAL, FACTORY SET FOR PICKUP AT 95 PERCENT.
22. TIME DELAY FOR RETRANSFER TO NORMAL SOURCE: ADJUSTABLE FROM 0 TO 30 MINUTES, AND FACTORY SET FOR 10 MINUTES TO AUTOMATICALLY DEFEAT DELAY ON LOSS OF VOLTAGE OR SUSTAINED UNDERVOLTAGE OF EMERGENCY SOURCE, PROVIDED NORMAL SUPPLY HAS BEEN RESTORED.
23. TEST SWITCH: SIMULATE NORMAL-SOURCE FAILURE.
24. SWITCH-POSITION PILOT LIGHTS: INDICATE SOURCE TO WHICH LOAD IS CONNECTED.
25. SOURCE-AVAILABLE INDICATING LIGHTS: SUPERVISE SOURCES VIA TRANSFER-SWITCH NORMAL- AND EMERGENCY-SOURCE SENSING CIRCUITS.
26. NORMAL POWER SUPERVISION: GREEN LIGHT WITH NAMEPLATE ENGRAVED "NORMAL SOURCE AVAILABLE."
27. EMERGENCY POWER SUPERVISION: RED LIGHT WITH NAMEPLATE ENGRAVED "EMERGENCY SOURCE AVAILABLE."
28. UNASSIGNED AUXILIARY CONTACTS: TWO NORMALLY OPEN, SINGLE-POLE, DOUBLE-THROW CONTACTS FOR EACH SWITCH POSITION, RATED 10 A AT 240-V AC.
29. TRANSFER OVERRIDE SWITCH: OVERRIDES AUTOMATIC RETRANSFER CONTROL SO AUTOMATIC TRANSFER SWITCH WILL REMAIN CONNECTED TO EMERGENCY POWER SOURCE REGARDLESS OF CONDITION OF NORMAL SOURCE. PILOT LIGHT INDICATES OVERRIDE STATUS.
30. ENGINE STARTING CONTACTS: ONE ISOLATED AND NORMALLY CLOSED, AND ONE ISOLATED AND NORMALLY OPEN, RATED 10 A AT 32-V DC MINIMUM.
31. ENGINE SHUTDOWN CONTACTS: INSTANTANEOUS, SHALL INITIATE SHUTDOWN SEQUENCE AT REMOTE ENGINE-GENERATOR CONTROLS AFTER RETRANSFER OF LOAD TO NORMAL SOURCE.
32. ENGINE-GENERATOR EXERCISER: SOLID-STATE, PROGRAMMABLE-TIME SWITCH STARTS ENGINE GENERATOR AND TRANSFERS LOAD TO IT FROM NORMAL SOURCE FOR A PRESET TIME, THEN RETRANSFERS AND SHUTS DOWN ENGINE AFTER A PRESET COOL-DOWN PERIOD. INITIATES EXERCISE CYCLE AT PRESET INTERVALS ADJUSTABLE FROM 7 TO 30 DAYS. RUNNING PERIODS ARE ADJUSTABLE FROM 10 TO 30 MIN

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BID SET
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

ELECTRICAL SPECIFICATIONS

SHEET #
E0.04

Interior Lighting - Space-By-Space Method — LTG-INT-SPACE

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including IFC IRC IMC over 3 stories and all R1 — Revised Nov 2017

Project Title: Quilt Ceda Creek Counseling — Date: 5/14/2021

Calculation Area (NOTE 1): ○ New Construction ○ Addition + Existing ○ Spaces where > 20% of luminaires are replaced ○ Spaces where the Use is changed (CS03) ○ Spaces where the Use is unchanged (CS03)

LPA Calculation Type: ◉ Standard ○ Additional Efficiency Package Option (CH9 3 Reduced Interior Lighting Power)

To comply with CH9 3, the Proposed LPD shall be 25% lower than the Target LPA. Refer to C405.2 for additional requirements.

User Notes:

Maximum Allowed Lighting Wattage (NOTE 2)

Location (Use # from #1)	Space Type	Lighting Area*ft	Decide Interior Area in ft²	Allowed Watts per ft²	Watts Allowed (Watts/ft² x area)
	Health care facility/ Examination		1.0	1	5770
		Total Area	5690		
		Retail Display Allowance from LTG-INT DISPLAY			
		Lobby Art/Exhibit Display Allowance from LTG-INT DISPLAY		Allowed Watts	7214

Proposed Lighting Wattage (NOTE 3)

Location (Use # room #)	Fixture Description (NOTE 4 & 5)	Number of Fixtures	Watts/ Fixture (NOTE 7)		Watts Proposed
A	Recessed LED dimmable strip lens	1	1		1
B	Recessed 2FT2 each	4	5.1		20.4
C	Recessed LED 1'x4'nr	4	49		196
D	Wall mount, wash, LED	4	4		16
E	Recessed LED downlight	4	4		16
F	Recessed LED decorative glass lens	2	4		8
G	Recessed LED downlight	1	4		4
H	Recessed LED downlight	3	4		12
I	Suspended, indirect decorative	4	2		8
J	Recessed LED wall	4	4		16
K	Surface decorative LED	1	4		4
L	Recessed LED 1'x4'nr	2	49		98
M	Surface LED strip	1	1		1
N	Recessed LED slot	1	1		1
O	Suspended, indirect LED	1	4		4
P	Recessed LED 1'x4'nr	17	49		833
Q	Surface undercounter 24inch	4	2		8
R	Surface undercounter 48inch	4	4		16
S	Surface wall LED sconce	4	3		12
T	Surface, interior LED wall sconce	2	4		8
U	Surface, exterior LED wall sconce	2	4		8
X	LED Exit Sign				
			Proposed Power Density Lighting from LTG-INT DISPLAY		
	Total Proposed Watts less exterior Total Allowed Watts for Interior Lighting			Total Proposed Watts	3453

Interior Lighting Power Allowance — COMPLIES

Note 1 List all unique space types per Table C405.4.2(2) that occur in the project scope. Select space type category from drop down menu.
Note 2 Indicate ceiling height for cabinets and spaces utilizing the ceiling height adjustment per Table C405.4.2(2). Footnotes a thru f
Note 3 List all proposed lighting fixtures including exempt lighting equipment and sorting of certain fixtures.
Note 4 Fixture description shall include fixture type, mounting, lamp type, # of lamps per fixture, and ballast type if included. For track lighting list the length of the track and the # of heads per linear foot. Add lighting controls.
Note 5 For lighting equipment exempt for exemption per C405.4.1, note exemption number and reason under Fixture Type.
Note 6 Existing to remain fixtures shall be included in the Proposed Lighting Wattage table in the same manner as new fixtures, identify as existing on fixture description.
Note 7 For proposed HVLDs/Troffers enter the luminaire wattage for electrical input and backed using manufacturer or other approved source. For luminaires with screw-in lamps, enter the manufacturer's rated maximum input wattage of the fixture and the lamp wattage). For low voltage lighting, enter the wattage of the transformer. For line voltage track/busway systems, enter the wattage of the smallest luminaire wattage or 30 watts/linear foot, or enter the wattage limit of permanent terminal ending device.
Note 8 Table 2 4-16, titled Display Allowance is independent of the Maximum Allowed Lighting Wattage. Enter all applicable adds, worksheet display allowance in LTG-INT DISPLAY form only.
Note 9 Calculation Aids Details:
- a. Lighting fixtures in a building exterior may comply as a stand alone project, or may may be combined with the overall exterior building lighting systems to demonstrate compliance. Refer to C202 1
- b. For alterations and building additions, provide Space Types and gross interior areas in the Maximum Allowed Lighting Wattage table. If a building addition will comply as combined with the area of existing building lighting systems, include all applicable existing Space Types and gross interior areas.
- c. If less than 50% of existing lighting fixtures will be replaced, provide total existing lighting wattage prior to alterations in the space enclosed in the Maximum Allowed Lighting Wattage table.
- d. If lighting alteration permit includes some building areas or spaces where < 50% of luminaires are replaced, and other areas or spaces where ≥ 50% of luminaires are replaced, then these areas or spaces may be documented separately. Multiple forms will be completed to demonstrate compliance for the total scope of the alteration permit. Provide areas covered in form in Close to an vector

Lighting, Motor, and Electrical Permit Checklist, Pg. 1 — LTG-CHK

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Applicability (yes, no, n/a)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SOCI Notes
LIGHTING CONTROLS					
Yes	C405.2	Lighting controls, general	For all lighting fixtures indicate lighting control method on plans for spaces and lighting panel(s) served on exposition below.	E2.01	
N/A	C405.2	Luminaires must have lighting controls	Indicate on plans all ballasts recessed with LLLC or key of C405.9 lighting controls, provide description of control capabilities and performance parameters		
N/A	C405.1	Lighting in dwelling units	Indicate that at least 75 % of the lamps in permanent light fixtures within each dwelling unit or in light fixtures are per Chapter 2 definition, it less than 75%, then exempts we all area thereunto of C405.2 - C405.8		
Yes	C405.2 3 C405.2.1 1 C405.2.2.2 C405.2.4 C405.2.5	Manual controls	Indicate on plans the method of manual lighting control whether accomplished with occupancy sensors, automatic light reduction, daylight responsive or specific application controls), location of manual control devices and area or specific application it served	E2.01	
N/A	C405.2 2.1 C405.2.2.3 C405.2.3	Manual exterior light reduction controls	Indicate on plans which method of manual 50% lighting load reductions is provided, or whether lighting load is reduced via exclusively sensors or daylight responsive controls	E2.01	
Yes	C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off applied during unoccupied periods (occupancy sensor, time switch or digital timer system) for all lighting zones to which time switch control exception applies	E2.01	
Yes	C405.2 1 C405.2 1 1	Occupancy sensor controls	Indicate on plans the type of sensor used by occupancy sensor 1.	E2.01	
N/A	C405.2.2	Occupancy sensor shall be installed	Indicate whether occupancy sensor controls are configured to be manual-on, automatic 50%-on, or some a space eligible for automatic 100%-on per exception	E2.06	
N/A	C405.2.2.1	Occupancy sensor shall be installed	Indicate walkways and foyer areas or warehouse aisles as serviced or in occupancy sensor exempt that indicate lighting power by 50%		
N/A	C405.2 3	Automatic time switch control devices	Indicate locations of time switches installed on plans and the lighting zones to control, verify on one sheet	E2.06	
N/A	C405.2.8	Digital time switch	Indicate digital time switch control products manufacturer/model time clocks, installed and visual indication of transitions time out.		
N/A	C405.2 4.2 C414.2 4.3	Daylight zones Skylight and daylight	Indicate on plans and passively daylight daylight zones areas on plans, include sq. ft. of and in zone.	E2.01	
			Indicate daylight daylight zone areas on plans include sq. ft.;		
Yes	C405.2.4	Daylight responsive controls	Indicate on plans lighting control served in daylight responsive controls	E2.01	
			Identify skylight and daylight daylight zones that are not provided with daylight sensing controls and the exceptions that apply.		
			Indicate on plans the lighting fixed reduction method continuous dimming, or stepped dimming that provides at least two even steps between 0% 100% of rated power		
			Indicate that daylight sensing controls are configured to completely shut off all controlled lights in the lighting zone.	E2.01	
N/A	C405.2.5	Additional controls for specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section		
N/A	C405.2.5 terms 1&2	Display and accent lighting	Indicate on plans and if salary and accent lighting and display case lighting is controlled independently from both general area lighting and other lighting applications within the same space.		
			Indicate manual and automatic lighting control method		

Lighting, Motor, and Electrical Permit Checklist, Pg. 2 — LTG-CHK

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Applicability (yes, no, n/a)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SOCI Notes
N/A	C405.2 5 Item 3	Parking garage lighting	Indicate method of automatic control - occupancy or daytime key located of all installed luminaires and installed wiring/power in panel chart		
N/A	C405.2 5 Item 4	Supplemental task lighting	Indicate location and location of automatic shut-off necessary located for supplemental task lighting, including under-shelf or under cabinet lighting		
N/A	C405.2.5 Items 5	Lighting for non-visual applications	Indicate on plans eligible non visual lighting applications, include req. 6, area of each lighting control zone.		
N/A	C405.2 5 Item 6	Lighting equipment for sale or demonstration	Indicate on plans that non visual lighting for sale or demonstration are control ed independently from both general area lighting and other lighting applications within the same space.		
Yes	C405.2 3 Item 7	Means of egress lighting	Provide calculation of lighting power density of egress lighting including normally off lighting.	E2.01	
			If total egress lighting power density is greater than 0.62 W/sq ft, indicate on plans egress fixtures requiring automatic shut off during unoccupied periods	E2.01	
N/A	C405.2 5 Item 8	Stairwells	Indicate method of automatic shut-off control.	E2.01	
			Indicate on plans that each stairway has automatic controls to reduce lighting by ≥ 50% when no occupants detected		
			Indicate that lighting maintains Seattle Building Code compliant lighting when lighting power reduced		
N/A	C405.2.8 Item 9	Parking Garages	Indicate on plans that garage lighting has automatic controls to perform lighting by ≥ 30% when no occupants detected.		
			Indicate on plans required control sequence and configuration.		
N/A	C405.2.7	Entrance lighting controls	Indicate on exterior lighting plans and fixture schedules the exterior lighting control method, control sequence and locations served.		
			For building facade and perimeter lighting, indicate automatic time switch control device that is activated at dawn/dusk and deactivated at corresponding time.		
			For all exterior exterior lighting, indicate automatic control shut off lighting as a function of available daylight, include control sequences that also reduce lighting power by at least 30% between 12am-6am, or 1am 1 hour after closing to 1 hour before opening, or based upon motion sensor		
N/A	C405.2.1	Exterior building grounds lighting controls	For building grounds fixtures greater than 100 watts, indicate on plans whether fixtures here efficacy greater than 80 lumens per are controlled by motion sensor or are exempt lighting per C405.5.2		
N/A	C405.2 5 Stated after C405.2 7)	Area controls, Master control switches and circuit power limit	Indicate location of master control switches installed to control multiple independent switches and/or power may not be used as a master control switch.		
			Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond 80%		
ADDITIONAL EFFICIENCY PACKAGE OPTION - ENHANCED DIGITAL LIGHTING CONTROLS					
N/A	C405.4	Enhanced digital lighting controls	To comply with additional efficiency package option, indicate on plans all interior lighting fixtures that are individually addressed and provides full continuous dimming, or exception taken.		
			Include calculation of percent total installed interior lighting power that is configured with required enhanced lighting control functions and refer to owners with additional efficiency package options)		

Lighting, Motor, and Electrical Permit Checklist, Pg. 3 — LTG-CHK

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Applicability (yes, no, n/a)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SOCI Notes
INTERIOR LIGHTING POWER & EFFICACY					
Yes	C405.4 1 C405.4.2	Total connected interior lighting power	Indicate all luminaires on lighting fixture and include: Indicate fixture types, ballasts, and whether/what's rated watts per fixture	E7.01	
			Identify spaces eligible for lighting power exemption as plans and or compliance forms, indicate the exemption applied	E2.01	
			Identify lighting equipment eligible for lighting power exemption on fixture schedule and in compliance forms, indicate the exemption applied	E2.01	
			Indicate that exempt lighting equipment is or isolation to be shut off via lighting and other lighting spaces where the same space.	E2.01	
N/A	C405.4 1	Total connected exterior lighting power	Indicate method of exterior lighting control and applicable automatic lighting control		
			Indicate on plans any areas where proposed wattage is calculated as the total dedicated lighting branch circuited rated wattage and proposed lighting power for each branch		
Yes	C405.3	Exit signs	Indicate location of exit signs on plans and rated watts per fixture or lighting fixture schedule (must be 5 watts per side)	E2.01	
N/A	C405 1	Lighting in dwelling units - lamp efficacy	Indicate installed lamp efficacy, (lumens watt) in the lighting fixture schedule calculate percentage lamps or permanently installed fixtures with high efficacy lamps per RA54 ((your 75% by warranty) if < 75% then indicate compliance with all lighting control provisions		
Interior Lighting Power Calculations - Indicate compliance path taken					
Yes	C405 4 2 1	Building Area Method	Complete required compliance forms - proposed wattage per building area does not exceed maximum allowed wattage per building area. identify locations of building areas on plans		
Yes	C405 4 2 2	Space-By-Space Method	Complete required compliance forms - total proposed wattage does not exceed maximum allowed wattage. Identify locations of space types on plans including retail display areas, verify all 6 exhibit display areas and ceiling heights as applicable		
ADDITIONAL EFFICIENCY PACKAGE OPTION - REDUCED INTERIOR LIGHTING POWER DENSITY					
N/A	C405.2	Reduced lighting power density	To comply with additional efficiency package options, demonstrate in compliance forms that total connected interior lighting wattage is 25% less than the total maximum allowed lighting wattage via Building Area Method or Space-by-Space Method.		
N/A	C405 3	Reduced lighting power density dwelling unit lamp efficacy	For areas with dwelling units: to comply with add tional efficiency package option indicate in lighting fixture schedule # of lamps in interior fixture type, efficacy rating of 90 lumens per watt or more. Calculate percentage of fixtures with lamps that have 90+ efficacy rating when 90% or more by with warranty.		
EXTERIOR LIGHTING POWER & EFFICACY					
N/A	C405.5.2	Total connected exterior lighting power	Indicate all luminaires on lighting fixture and include: Indicate fixture types, wattage, ballasts, and whether/what's rated watts per fixture.		
			Identify exterior illuminations wattage for lighting power exemption on plans and as compliance forms, indicate exception applied		
			Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting. Include exception claimed for such fixture or group of fixtures served		
N/A	Table C405.5 2011	Exterior lighting zone	Indicate building exterior lighting zone as defined by the SOCI		
N/A	C405.6.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 100 watts that are controlled based on efficacy, indicate rated lamp efficacy in lumens per watt on fixture schedule		
N/A	C405.5.2	Exterior lighting power allowance	Complete required compliance form — proposed wattage for exterior lighting plus bonus area allowed does not exceed maximum allowed		
N/A	C405.5.3	Full cutoff luminaires	For open parking, exterior area, and roadway luminaires mounted more than 15 above the ground, indicate fixture with luminaires at an angle of 90 degrees.		

Lighting, Motor, and Electrical Permit Checklist, Pg. 4 — LTG-CHK

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Applicability (yes, no, n/a)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SOCI Notes
LIGHTING ALTERATIONS					
NA	C503.8.1	Interior and parking garage lighting in-use alterations	Where ≥ 22% of existing luminaires in interior spaces(s) or ≥ 10% of existing luminaires in parking garage are replaced, indicate complete area path (building area or space/enclosed overhead), include sf/area and according downstream luminaires in compliance - ITS-INT (8.2) or LTG-INT (8.2) ALTERATIONS. Indicate pre-zoned lighting wattage does not exceed maximum allowed per complete area path		
			Where ≥ 22% of existing luminaires in interior space(s) or ≥ 10% of existing luminaires in parking garage are replaced, indicate total existing lighting wattage in each space or area affected, perform all area and mapping to remain luminaires in ITS-INT SPACE form. Indicate proposed total lighting wattage in aforementioned form. Indicate proposed total existing lighting wattage does not exceed total existing wattage prior to alteration		
NA	C503.8.1	Exterior lighting in-use alterations	Where ≥ 50% of existing exterior lighting wattage is replaced, indicate total or any lighting wattage prior to alteration, include all new and ex situ luminaires included in LTG-EXT form. Indicate proposed total exterior lighting wattage does not exceed total existing wattage prior to alteration		
NA	C503.8.2	Exterior lighting controls	Where new wiring is installed to serve new interior luminaires and for luminaires are relocated to a new circuit, indicate lighting controls are provided (as applicable) - from (C405.2 3c occupancy sensor (C405.2.1) daylight responsive (C405.2.4), specific application (C405.2.5) and 4 pre (C405.3)		
NA	C503.8.2	Exterior lighting controls	Where new wiring is in-use will be served new exterior luminaires and for luminaires are relocated to new circuit, indicate lighting controls are provided (C405.2.1)		
NA	C503.8.3	Lighting power allowances	Where a new lighting panel is installed or an existing panel is moved (if new recovery and conductor wiring), indicate lighting panelboard are provided (as applicable) - some panels and as wiring altered one, time switch controls and manual light reduction controls (C405.2.1)		
NA	C503.8.4	New/increased rooms	Where new walls or sealing-height partitions are added to existing rooms, indicate lighting controls are provided and applicable - some provisions on lighting power allowance		
NA	C503.1	Change of space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Table C405.4.2(1) or (2)		
			Indicate complete path (building area or space-by-space method), include all new and existing luminaires in compliance form LTG-INT SUP or LTG-INT-SPACES. Indicate proposed lighting wattage does not exceed maximum allowed per complete path		
RECEPTACLES					
Yes	C410.10	Controlled receptacles	Identify all receptacles and unconnected receptacles on electrical plans in each space or what they are required, include receptacle configuration such as spacing between controlled and uncontrolled. Explain device etc.	E7.05	
			Indicate on plans whether the method of automatic control for each controlled receptacle area - by occupant sensor or programmable time-of-day control	E3.01	

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MOTORS, TRANSFORMERS, ELECTRIC METERS, INTERIOR TRANSPORTATION					
NA	C435.8	Dedicated transformers	Indicate electrical transformer schedule on electrical plans indicate transformer size, efficiency, or description taken		
NA	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter		
NA	C405.8	Elevator motor efficiency	Indicate all means including first load no motors, in elevator motor schedule on electrical plans, indicate by rpm, rated efficiency, or exception applied		
NA	C405.9.1	Elevator cars	For elevators in each elevator bank, provide estimated average efficacy of equipment features that elevators who are in not less than 25 lumens per watt.		
			Indicate rated watts per cab for elevator cab work lamps that do not exceed 3.33 watts per cab.		
			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more		
NA	C405.9.2	Escalators and moving walks	Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more		
NA	C405.9.3	Requirements on drive	Indicate all one-way doors of moderate escalators are provided with a variable frequency regenerative drive		
DOCUMENTATION AND SYSTEM REQUIREMENTS TO SUPPORT COMMISSIONING (Cx)					
Yes	C408.1	Scope of commissioned applicable and lighting systems re-commissioning	Indicate that all controls and necessaries are required to be commissioned.		
			Where total building lighting load is > 2 kW or where total lighting load of luminaires requiring automatic turning on and off occupancy control > 10 kW, indicate that all automatic lighting control measures are required to be commissioned, or provide building lighting power calculation demonstrating eligibility for exception.		
Yes	C405.1.3 C405.1.1 C408.1.2 C405.1 4.2 C403.6	Commissioning requirements in construction documents	Indicate Cx requirements + plans and specifications for all applicable electrical and lighting control systems per C408		
			Include general summary with or reminder Items 1 thru 4 of the Cx item per C408.1.2 including: a narrative description of activities, assigning battles of the Cx team, schedule of activities including verification of project close out (require Item per C103.6 and conflict of interest plan (if required).		
			Include in general summary that a Cx report or Completion Checklist (or suitable criteria) shall be completed by the Certified Cx Professional and provided to the owner and the AHJ at completion		
Yes	C405.3.1	Functional performance testing	Identify in plans and specifications the intended operation of all equipment and controls that rely on modes of operation, including interfacing between new and existing systems		
PROJECT CLOSE OUT DOCUMENTATION					
Yes	C1316.3	Record drawings and documentation requirements	Indicate in plans that project close out documentation is required including WSEC lighting maintenance forms and calculations that document as interior and exterior lighting area and for surface types, lighting power allowances and installed densities		

If "no" is selected for any question, provide explanation:

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6/17/2021

QUIL CEDA CREEK COUNSELING
TULALIP TRIBES FEDERAL CORPORATION
6330 31ST AVE NE
TULALIP, WA 98271

PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021
REVISION SCHEDULE

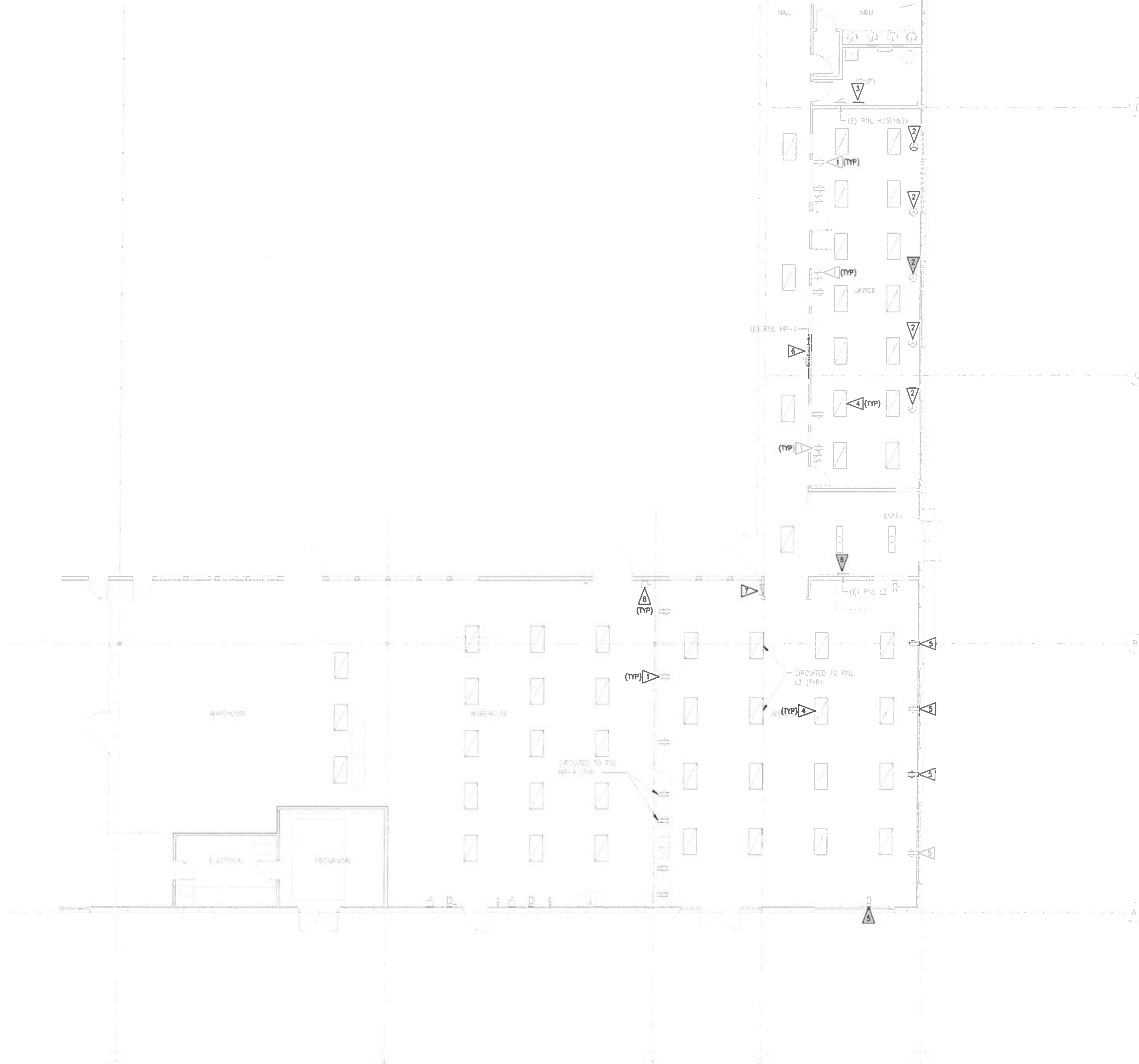
AHJ APPROVAL STAMP

NREC

SHEET #
E0.05

DATE/ TIME PRINTED:

DATE/ TIME PRINTED:



FIRST FLOOR ELECTRICAL PLAN - DEMO
SCALE: 1/8" = 1'-0"

1/8"=1'-0" 0 2 4 6 8 16 24

GENERAL NOTES

1. REFER TO SHEET E0.02 FOR DEMOLITION NOTES.
2. EXACT QUANTITY OF FIXTURES AND DEVICES MAY VARY WITH EXISTING CONDITIONS. SITE VERIFICATION IS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

FLAG NOTES

1. REMOVE EXISTING WIRING DEVICE, BACKBOX, CONDUIT AND WIRING.
2. REMOVE EXISTING MODULAR FURNITURE CONNECTION, CONDUIT, WIRING.
3. REPLACE EXISTING PANELBOARD. REFER TO FIRST FLOOR POWER PLAN SHEET E3.01. PROTECT CIRCUITS FOR REUSE. EXTEND EXISTING CIRCUITS TO NEW PANELBOARD.
4. REMOVE EXISTING LIGHT FIXTURE, CONDUIT AND WIRING.
5. REPLACE EXISTING RECEPTACLE AND WIRING.
6. EXISTING PANELBOARD TO REMAIN. AS-BUILT EXISTING CIRCUITS IN CONSTRUCTION AREA.
7. REMOVE EXISTING CONTROL CABINET, CONDUIT, AND WIRING. EXISTING CONDITIONS AND AS-BUILT VERIFICATION IS REQUIRED TO DETERMINE EXTENT OF WORK.
8. REMOVE DISCONNECT SWITCH, CONDUIT AND WIRE.

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BENJAMIN ROBERT MAXWELL, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER
6/17/2021

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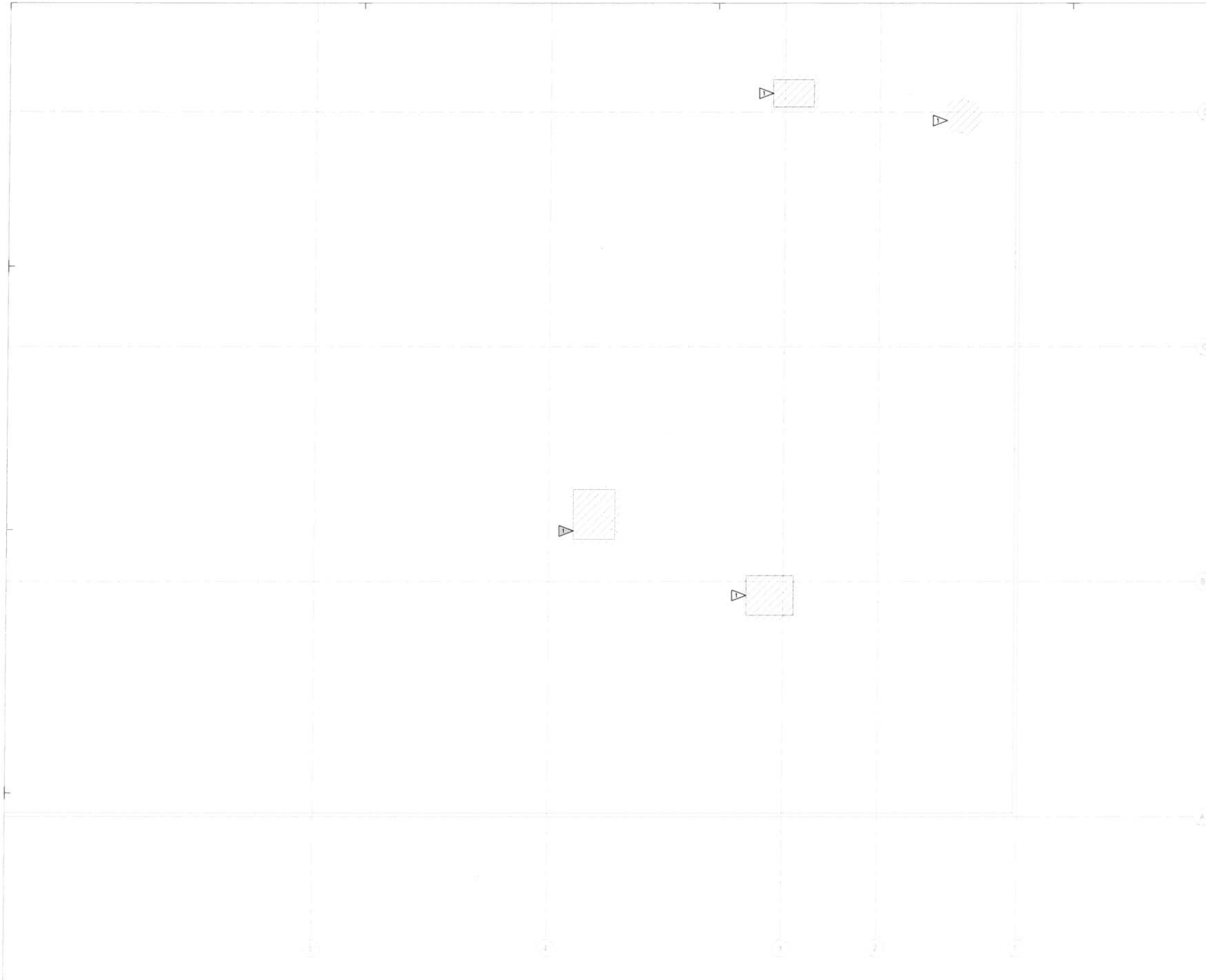
FIRST FLOOR
ELECTRICAL
PLAN - DEMO

SHEET #
E1.01



ROOF ELECTRICAL PLAN - DEMO

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

1/8"=1'-0" 0 2 4 6 8 16 24

GENERAL NOTES

1. REFER TO SHEET E0.02 FOR DEMOLITION NOTES.

FLAG NOTES

1. DEMOLISH EXISTING EQUIPMENT. REFER TO SHEET M1.02 FOR DETAILS.

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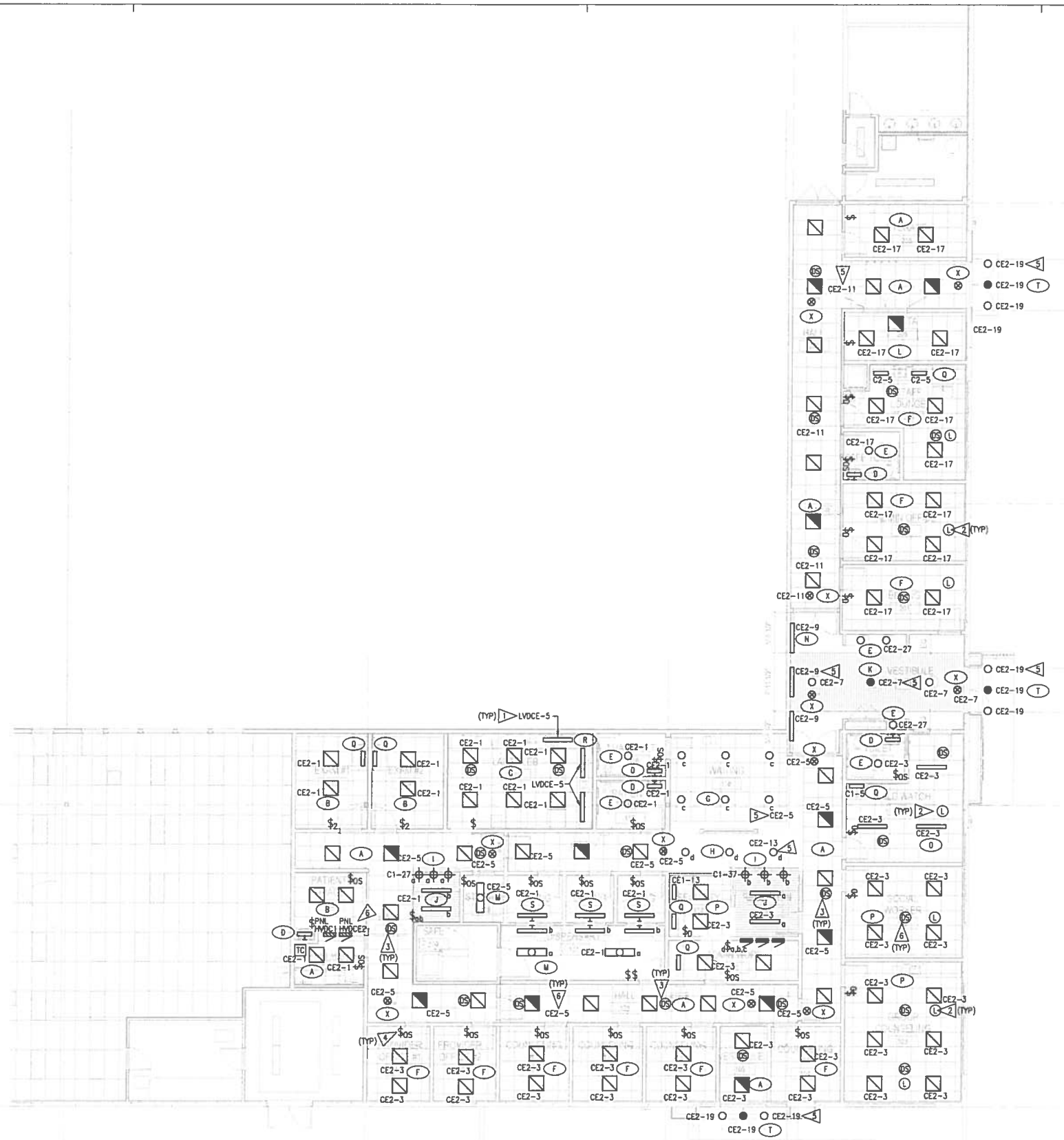
ROOF ELECTRICAL PLAN - DEMO

SHEET #
E1.02

DATE/ TIME PRINTED:



GENERAL NOTES

1. REFER TO PANEL SCHEDULES SHEET E7.01.
2. REFER TO SPECIFICATIONS SHEET E0.03.
3. REFER TO ONE-LINE DIAGRAM SHEET E6.01.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE SHEET E7.02.

FLAG NOTES

1. CONNECT UNDERCOUNTER LIGHTING FIXTURE TO 120V CIRCUIT.
2. PROVIDE DAYLIGHT SENSING CONTROL CIRCUITING. REFER TO DETAIL 2, SHEET E7.05.
3. PROVIDE TIME CLOCK/OCCUPANCY SENSOR CONTROL CIRCUITING. REFER TO DETAIL 3, SHEET E7.05.
4. PROVIDE SWITCH/OCCUPANCY SENSOR CONTROL CIRCUITING. REFER TO DETAIL 4, SHEET E7.05.
5. ROUTE CIRCUIT THRU TIME CLOCK.
6. 277V LIGHTING CIRCUIT DESIGNATIONS ARE ABBREVIATED FOR CLARITY. 277V LIGHTING CIRCUITS ARE TO BE CONNECTED TO PANEL HVDCE1.
7. EXTERIOR CANOPY MOUNTED FIXTURE ROUTE CIRCUIT THROUGH TIME CLOCK.

FIRST FLOOR LIGHTING PLAN

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

1/8"=1'-0" 0 2 4 6 8 16 24

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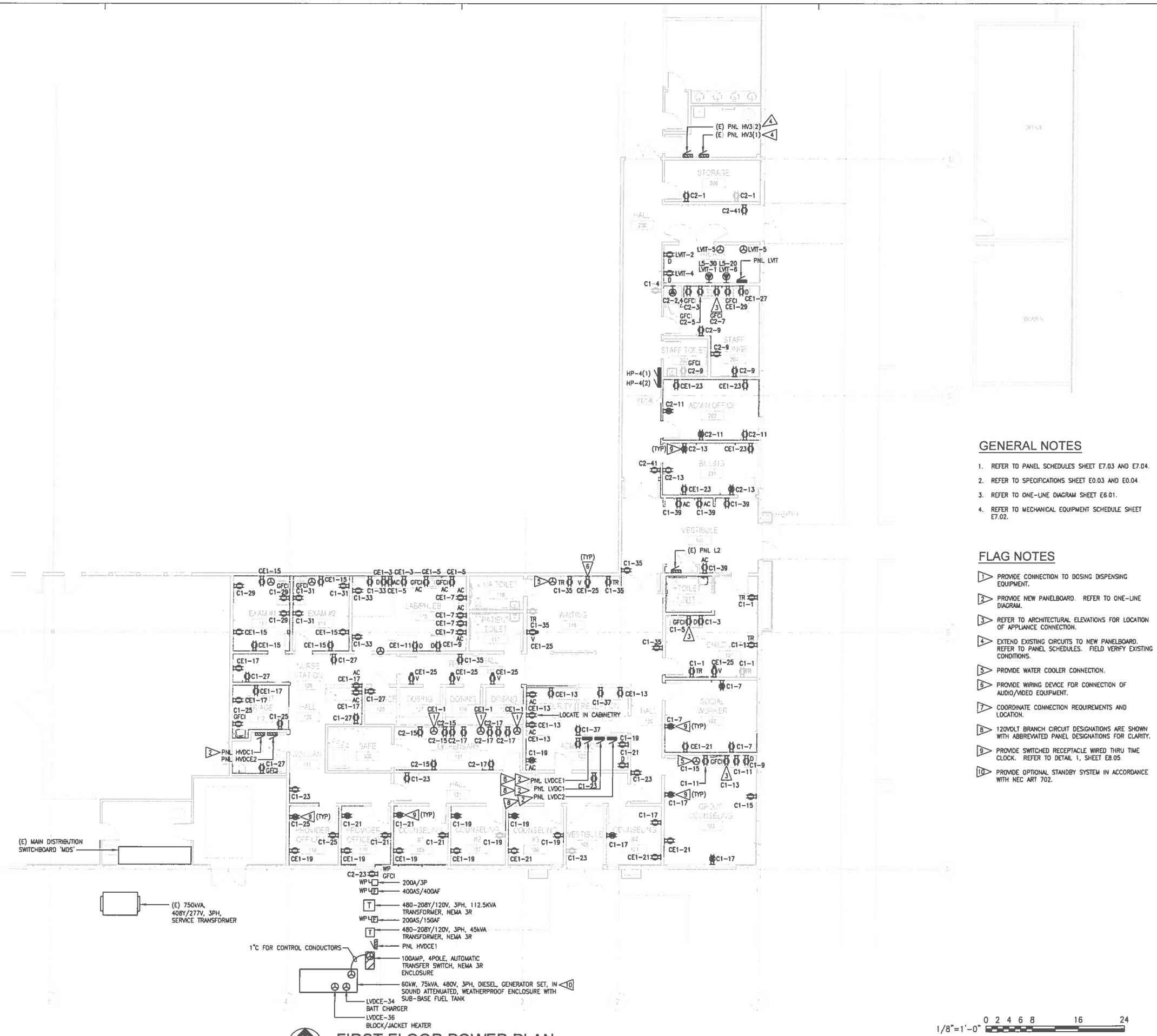
FIRST FLOOR LIGHTING PLAN

SHEET #
E2.01

DATE/ TIME PRINTED:



FIRST FLOOR POWER PLAN

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

1/8"=1'-0" 0 2 4 6 8 16 24

GENERAL NOTES

1. REFER TO PANEL SCHEDULES SHEET E7.03 AND E7.04.
2. REFER TO SPECIFICATIONS SHEET E0.03 AND E0.04
3. REFER TO ONE-LINE DIAGRAM SHEET E6.01.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE SHEET E7.02.

FLAG NOTES

1 PROVIDE CONNECTION TO DOSING DISPENSING EQUIPMENT.
2 PROVIDE NEW PANELBOARD. REFER TO ONE-LINE DIAGRAM.
3 REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION OF APPLIANCE CONNECTION.
4 EXTEND EXISTING CIRCUITS TO NEW PANELBOARD. REFER TO PANEL SCHEDULES. FIELD VERIFY EXISTING CONDITIONS.
5 PROVIDE WATER COOLER CONNECTION.
6 PROVIDE WIRING DEVICE FOR CONNECTION OF AUDIO/VIDEO EQUIPMENT.
7 COORDINATE CONNECTION REQUIREMENTS AND LOCATION.
8 120VOLT BRANCH CIRCUIT DESIGNATIONS ARE SHOWN WITH ABBREVIATED PANEL DESIGNATIONS FOR CLARITY.
9 PROVIDE SWITCHED RECEPTACLE WIRED THRU TIME CLOCK. REFER TO DETAIL 1, SHEET E8.05
10 PROVIDE OPTIONAL STANDBY SYSTEM IN ACCORDANCE WITH NEC ART 702.

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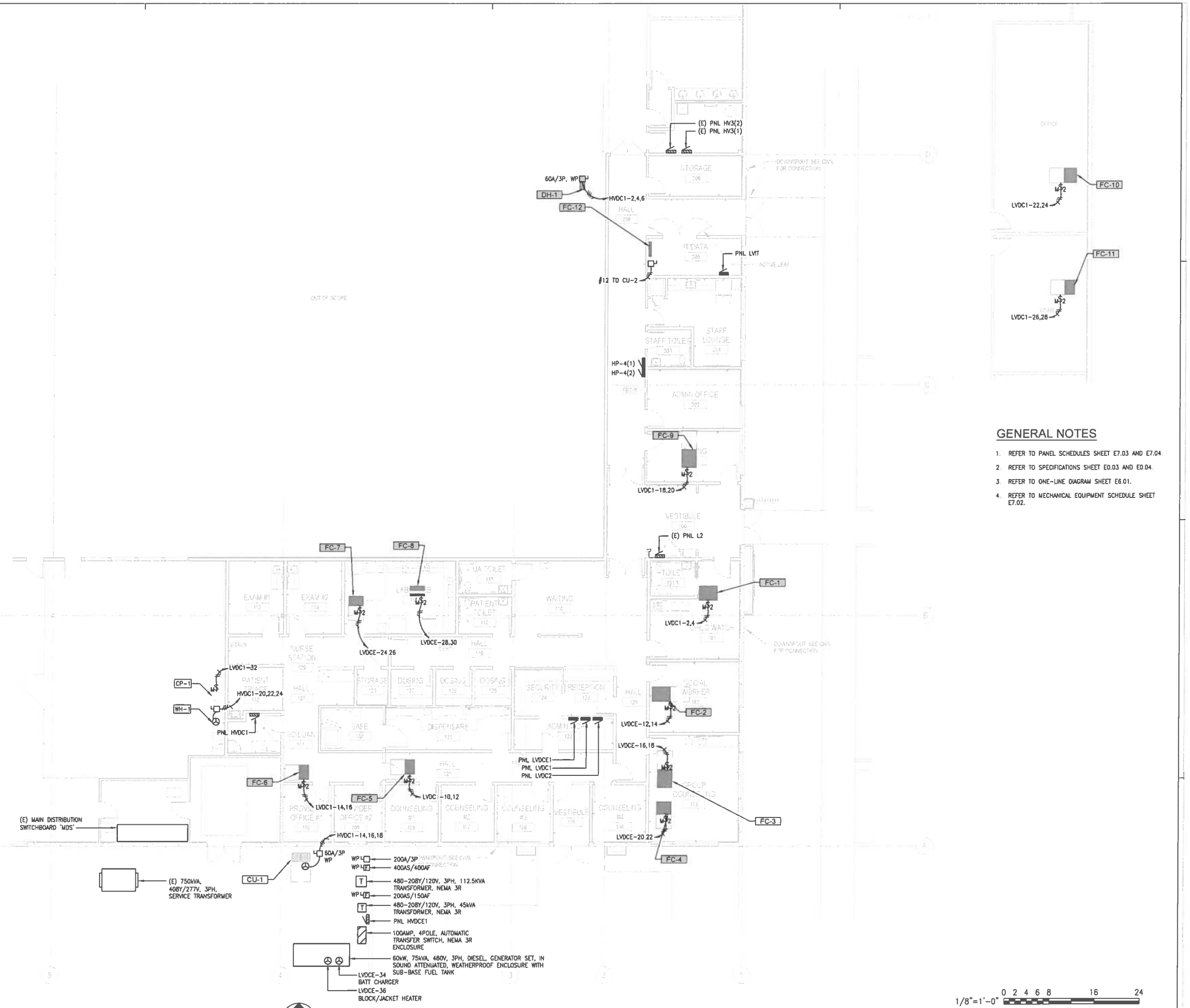
FIRST FLOOR
POWER PLAN

SHEET #
E3.01



GENERAL NOTES

1. REFER TO PANEL SCHEDULES SHEET E7.03 AND E7.04.
2. REFER TO SPECIFICATIONS SHEET E0.03 AND E0.04.
3. REFER TO ONE-LINE DIAGRAM SHEET E6.01.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE SHEET E7.02.

FIRST FLOOR MECHANICAL POWER PLAN

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

1/8"=1'-0" 0 2 4 6 8 16 24

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FIRST FLOOR MECHANICAL POWER PLAN

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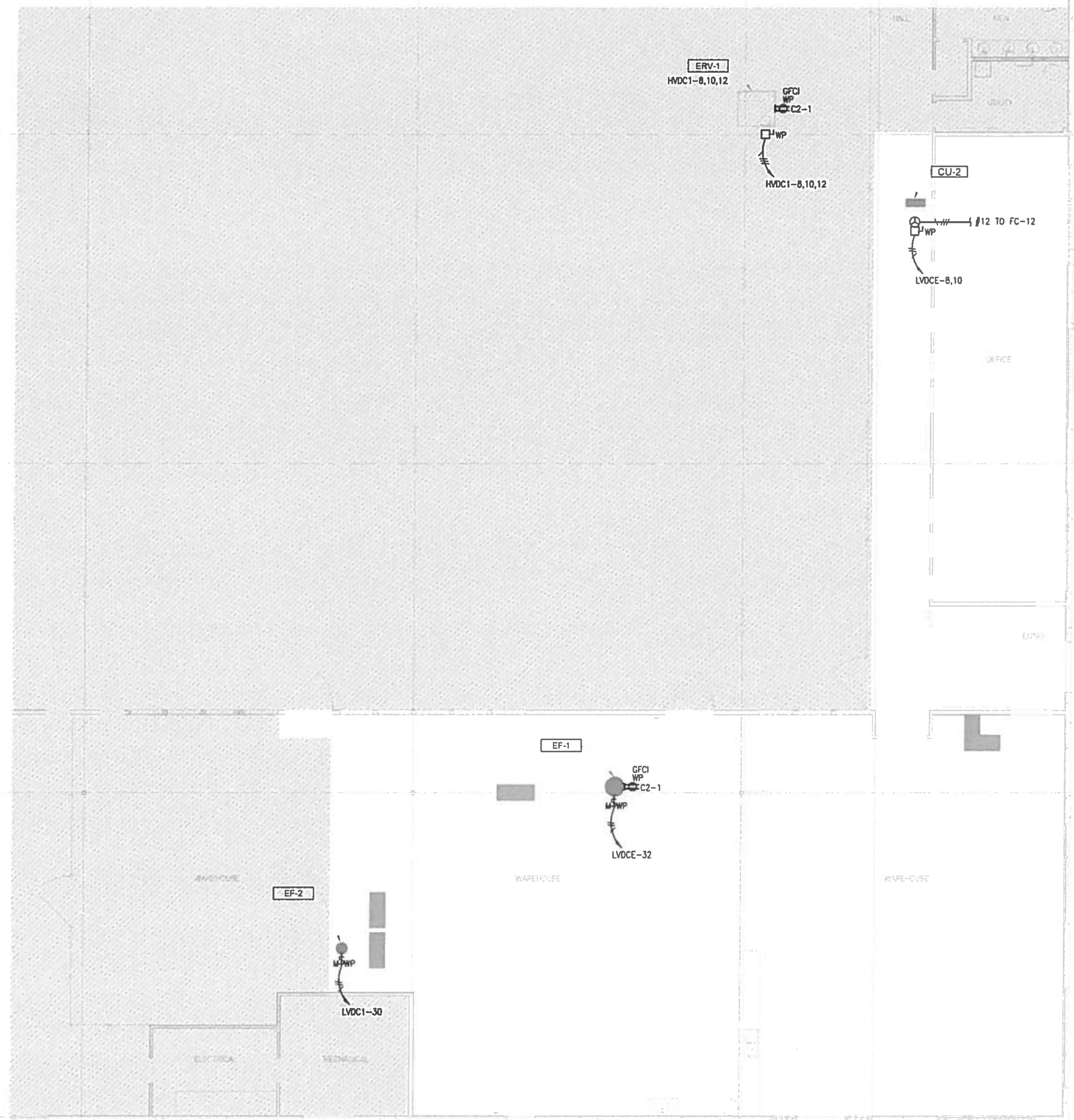

ROOF LEVEL MECHANICAL POWER PLAN

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

1/8"=1'-0" 0 2 4 6 8 16 24

GENERAL NOTES

1. REFER TO PANEL SCHEDULES SHEET E7.03 AND E7.04.
2. REFER TO SPECIFICATIONS SHEET E0.03 AND E0.04.
3. REFER TO ONE-LINE DIAGRAM SHEET E6.01.
4. REFER TO MECHANICAL EQUIPMENT SCHEDULE SHEET E7.02.

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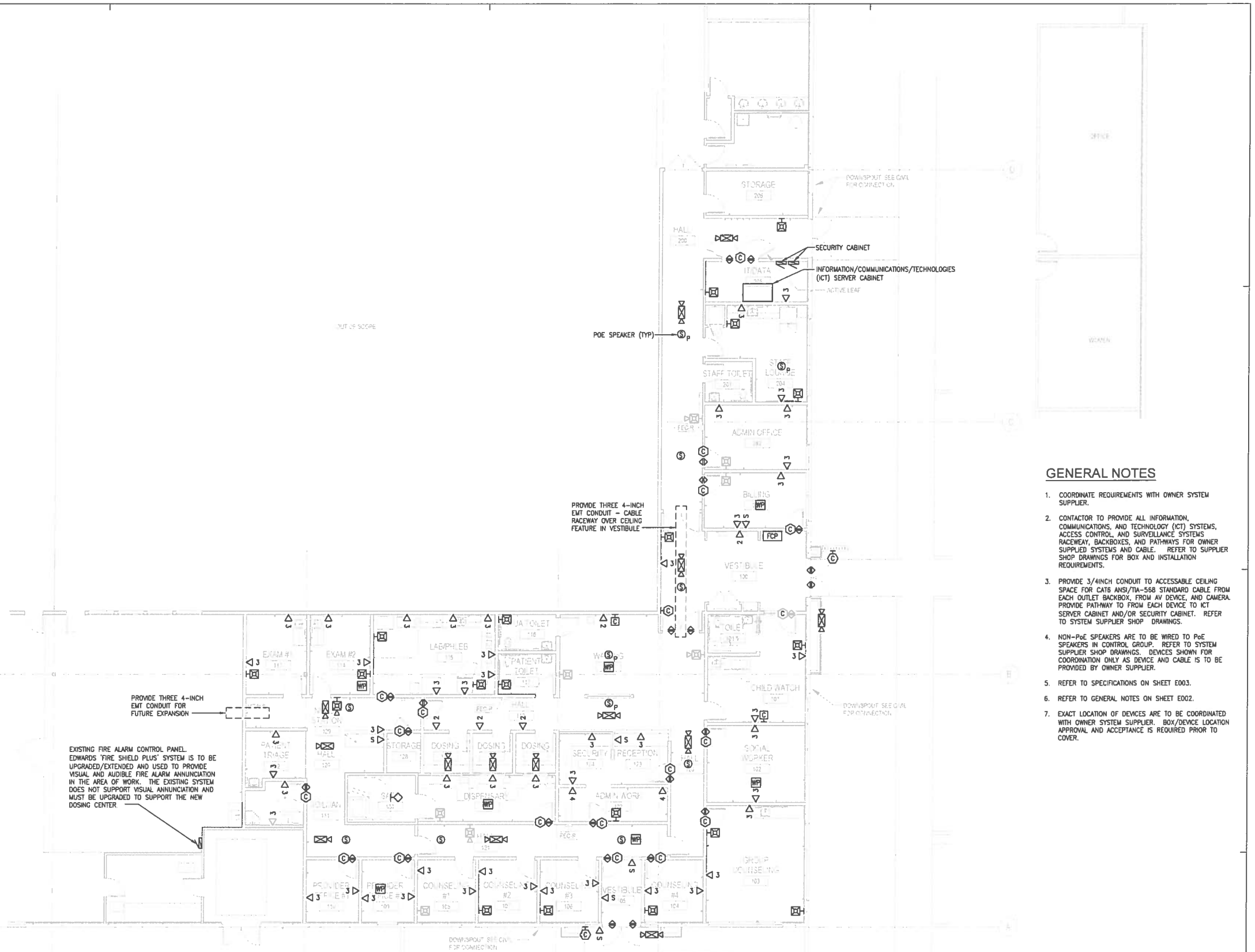
ROOF LEVEL
MECHANICAL
POWER PLAN

SHEET #
E4.02



GENERAL NOTES

1. COORDINATE REQUIREMENTS WITH OWNER SYSTEM SUPPLIER.
2. CONTACTOR TO PROVIDE ALL INFORMATION, COMMUNICATIONS, AND TECHNOLOGY (ICT) SYSTEMS, ACCESS CONTROL, AND SURVEILLANCE SYSTEMS RACEWAY, BACKBOXES, AND PATHWAYS FOR OWNER SUPPLIED SYSTEMS AND CABLE. REFER TO SUPPLIER SHOP DRAWINGS FOR BOX AND INSTALLATION REQUIREMENTS.
3. PROVIDE 3/4INCH CONDUIT TO ACCESSABLE CEILING SPACE FOR CAT6 ANSI/TIA-568 STANDARD CABLE FROM EACH OUTLET BACKBOX, FROM AV DEVICE, AND CAMERA. PROVIDE PATHWAY TO FROM EACH DEVICE TO ICT SERVER CABINET AND/OR SECURITY CABINET. REFER TO SYSTEM SUPPLIER SHOP DRAWINGS.
4. NON-PoE SPEAKERS ARE TO BE WIRED TO PoE SPEAKERS IN CONTROL GROUP. REFER TO SYSTEM SUPPLIER SHOP DRAWINGS. DEVICES SHOWN FOR COORDINATION ONLY AS DEVICE AND CABLE IS TO BE PROVIDED BY OWNER SUPPLIER.
5. REFER TO SPECIFICATIONS ON SHEET E003.
6. REFER TO GENERAL NOTES ON SHEET E002.
7. EXACT LOCATION OF DEVICES ARE TO BE COORDINATED WITH OWNER SYSTEM SUPPLIER. BOX/DEVICE LOCATION APPROVAL AND ACCEPTANCE IS REQUIRED PRIOR TO COVER.

FIRST FLOOR SYSTEMS PLAN

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

1/8"=1'-0" 0 2 4 6 8 16 24

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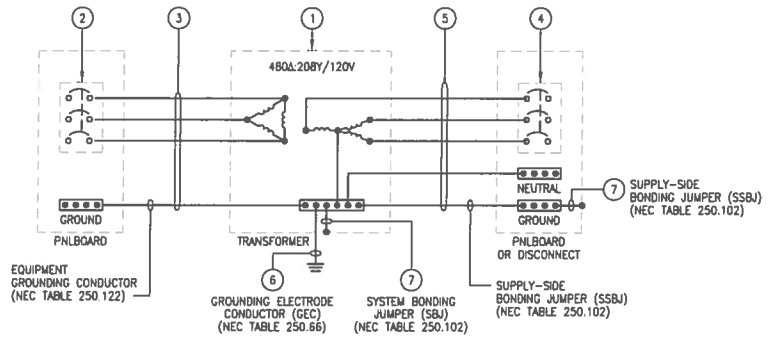
FIRST FLOOR SYSTEMS PLAN

SHEET #
E5.01

TRANSFORMER SCHEDULE

(1) TRANSFORMER kVA	(2) PRIMARY C.B.	(3) PRIMARY FEEDER RACEWAY	PRIMARY FEEDER CONDUCTORS	(4) SECONDARY C.B.	(5) SECONDARY FEEDER RACEWAY	SECONDARY FEEDER CONDUCTORS	(6) GEC	(7) SBJ SSBJ
15	30	3/4"	3#10 & 1#10 G	50	1	4#6 & 1#8 G	#6	#8
30	60	1.25"	3#4 & 1#10 G	100	1.5"	4#2 & 1#8 G	#8	#8
45	80	1.5"	3#2 & 1#8 G	150	2"	4#1/0 & 1#6 G	#6	#6
75	125	1.5"	3#1 & 1#6 G	225	2.5"	4#4/0 & 1#2 G	#2	#2
112.5	175	2"	3#2/0 & 1#6 G	400	3.5"	4-600 kcmil & 1#1/0 G	#1/0	#1/0
150	225	2"	3#4/0 & 1#4 G	500	(2) 3"	(2) 4-250 kcmil & 1#1/0 G	#1/0	#1/0
225	400	3.5"	3-500 kcmil & 1#2 G	800	(2) 4"	(2) 4-500 kcmil & 1#2/0 G	#2/0	#3/0
300	500	(2) 2.5"	(2) 3-250 kcmil & 1#1/0 G	1000	(3) 4"	(3) 4-500 kcmil & 1#3/0 G	#3/0	#4/0
500	800	(2) 3.5"	(2) 3-600 kcmil & 1#1/0 G	1600	(4) 4"	(4) 4-600 kcmil & 1#3/0 G	#3/0	300 kcmil
750	1200	(4) 3"	(4) 3-350 kcmil & 1#3/0 G	2500	(6) 4"	(6) 4-600 kcmil & 1#3/0 G	#3/0	500 kcmil
1000	1600	(4) 3.5"	(4) 3-600 kcmil & 1#4/0 G	3500	(10) 4"	(10) 4-500 kcmil & 1#3/0 G	#3/0	750 kcmil



COPPER FEEDER SCHEDULE

AMPACITY (AMPS)	SYMBOL ID	FEEDER 3 PHASE, 4 WIRE	RACEWAY	SYMBOL ID	FEEDER 3 PHASE, 3 WIRE	RACEWAY
20	20	4#12, 1#12 G	3/4"	20N	3#12, 1#12 G	3/4"
30	30	4#10, 1#10 G	3/4"	30N	3#10, 1#10 G	3/4"
40	40	4#8, 1#10 G	1"	40N	3#8, 1#10 G	1"
50	50	4#6, 1#10 G	1"	50N	3#6, 1#10 G	1"
60	60	4#4, 1#10 G	1.5"	60N	3#4, 1#10 G	1.5"
70	70	4#4, 1#8 G	1.5"	70N	3#4, 1#8 G	1.5"
100	100	4#2, 1#8 G	1.5"	100N	3#2, 1#8 G	1.5"
125	125	4#1, 1#6 G	2"	125N	3#1, 1#6 G	1.5"
150	150	4#1/0, 1#6 G	2"	150N	3#1/0, 1#6 G	1.5"
175	175	4#2/0, 1#6 G	2"	175N	3#2/0, 1#6 G	2"
200	200	4#3/0, 1#6 G	2.5"	200N	3#3/0, 1#6 G	2"
225	225	4#4/0, 1#4 G	2.5"	225N	3#4/0, 1#4 G	2"
250	250	4#250 kcmil, 1#4 G	3"	250N	3#250 kcmil, 1#4 G	2.5"
300	300	4#350 kcmil, 1#4 G	3"	300N	3#350 kcmil, 1#4 G	3"
400	400	4#600 kcmil, 1#2 G	4"	400N	3#600 kcmil, 1#2 G	3.5"
500	500	2 SETS 4#250 kcmil, 1#1/0 G	(2) 3"	500N	2 SETS 3#250 kcmil, 1#1/0 G	(2) 2.5"
600	600	2 SETS 4#350 kcmil, 1#1/0 G	(2) 3"	600N	2 SETS 3#350 kcmil, 1#1/0 G	(2) 3"
800	800	2 SETS 4#600 kcmil 1#1/0 G	(2) 4"	800N	2 SETS 3#600 kcmil, 1#1/0 G	(2) 3.5"
1000	1000	3 SETS 4#500 kcmil, 1#2/0 G	(3) 3.5"	1000N	3 SETS 3#500 kcmil, 1#2/0 G	(3) 3"
1200	1200	4 SETS 4#350 kcmil, 1#3/0 G	(4) 3"	1200N	4 SETS 3#350 kcmil, 1#3/0 G	(4) 3"
1600	1600	4 SETS 4#600 kcmil, 1#4/0 G	(4) 4"	1600N	4 SETS 3#600 kcmil, 1#4/0 G	(4) 3.5"
2000	2000	5 SETS 4#600 kcmil, 1#250 kcmil G	(5) 4"	2000N	5 SETS 3#600 kcmil, 1#250kcmil G	(5) 3.5"
2500	2500	6 SETS 4#600 kcmil, 1#350 kcmil G	(6) 4"	2500N	6 SETS 3#600 kcmil, 1#350 kcmil G	(6) 3.5"
3000	3000	8 SETS 4#500 kcmil, 1#500 kcmil G	(8) 3.5"	3000N	8 SETS 3#500 kcmil, 1#500 kcmil G	(8) 3.5"
4000	4000	10 SETS 4#600 kcmil, 1#600 kcmil G	(10) 4"	4000N	10 SETS 3#600 kcmil, 1#600 kcmil G	(10) 3.5"

NOTES:
1. ALL FEEDERS ARE COPPER WITH THHN/THWN INSULATION.
2. FOR FEEDERS WITH AN "SL" SUFFIX, DELETE THE GROUND CONDUCTOR.

PNL DESIGNATION

EXAMPLE DESIGNATION: PNL 12NH1

BUILDING FLOOR
XX = FLOOR NUMBER
PH = PENTHOUSE

BRANCH
L = LEGALLY REQUIRED
N = NORMAL
S = STANDBY
X = EMERGENCY

SUFFIX
1 = FIRST IN SEQUENCE
2 = SECOND IN SEQUENCE

VOLTAGE
H = 480Y/277V
L = 208Y/120V

GENERAL NOTES

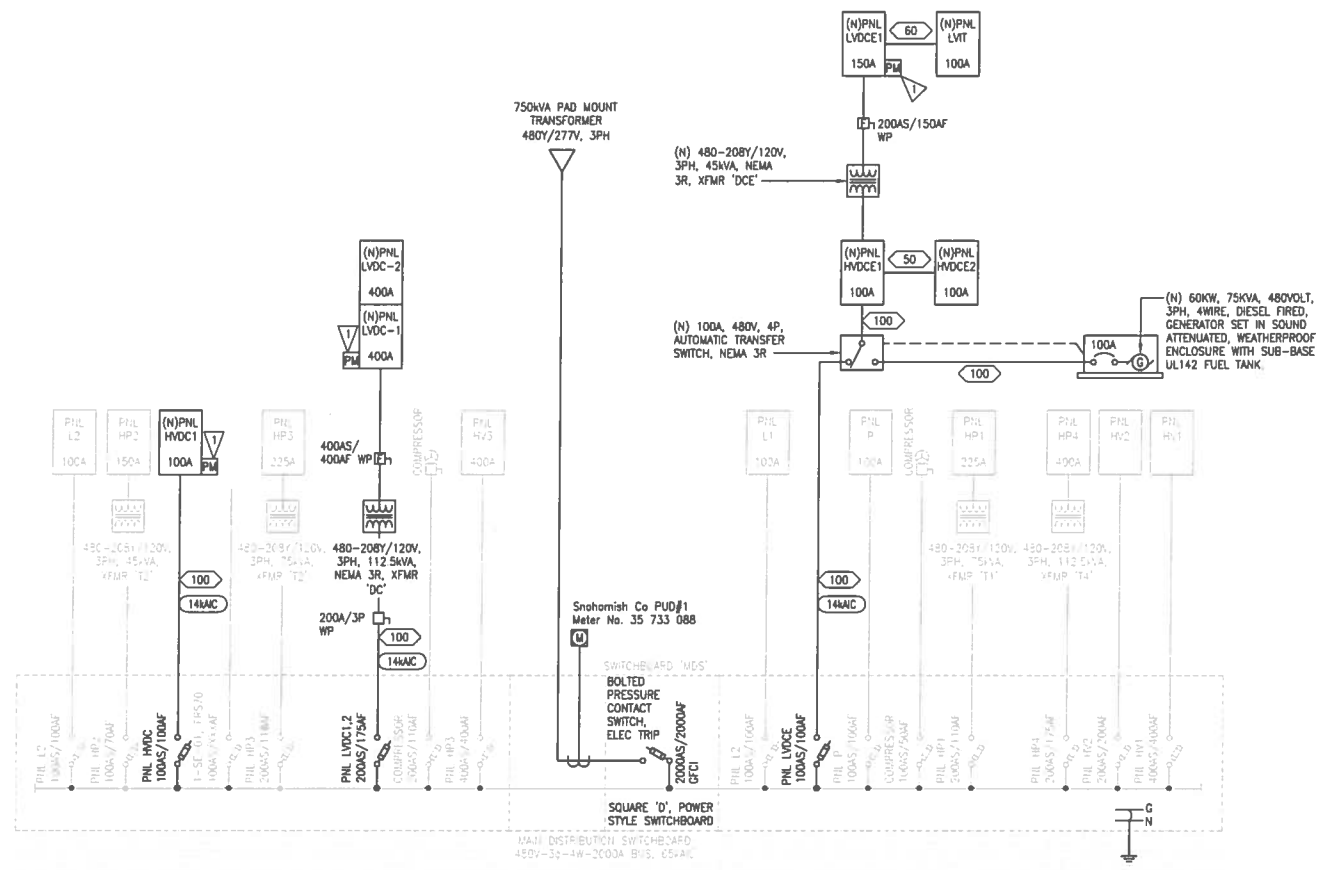
1. REFER TO SHEET E0.02 FOR GENERAL NOTES, AND SHEET E0.03 SPECIFICATIONS.

FLAG NOTES

1. PROVIDE E-MON D-MON CLASS 3000 METER, ETHERNET CABLE/CONNECTION TO OWNER IT/DATA PUNCH DOWN BLOCKS IN IT/DATA CABINET AND OPERATING SOFTWARE FOR ENERGY METERING. RECORDINGS ARE TO BE LOGGED IN kWh AND kW REAL-TIME, PEAK DEMAND WITH DATE AND TIME. SYSTEM SHALL RECORD POWER FACTOR, VOLTS, AND AMPS PER PHASE. PROVIDE STARTUP, COMMISSIONING, AND OWNER TRAINING/DEMONSTRATION. COORDINATE METER VOLTAGE AND AMPACITY WITH PANELBOARD RATING(S).

Service Load Summary - MSB

	kVA	Amps
Distribution Equipment		
(E) Panelboard L2	66.4	79.90
(E) Panelboard HP2	45	54.15
(E) Panelboard HP3	75	90.25
(E) Panelboard HV3	266	320.10
Compressor	73.12	87.99
(E) Panelboard L1	66.4	79.90
(E) Panelboard P	66.4	79.90
(E) Panelboard HP1	75	90.25
(E) Panelboard HP4	112.50	135.38
(E) Panelboard HV2	133.00	160.05
(E) Panelboard HV1	266.00	320.10
(N) Panelboard HVDC1	60.56	72.88
(N)LVDC1-2	27.10	32.61
(N) Panelboard HVDCE1	43.81	52.72
Total:	1376.29	1656.19
Existing PUD Service:	2000Amps, 480Y/277volts, 3phase, 4wire.	
Total	1376.29	1656.19



1 E6.01 ONE-LINE DIAGRAM
SCALE: NONE

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ONE-LINE DIAGRAM

SHEET #
E6.01

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LUMINAIRE SCHEDULE

Type	Description	Lamp Type	Ballast/ Driver	WATTS	Manufacturer Information	Schedule Notes
X	LED EXIT SIGN EDGE LIT PROVIDE UL 924 LISTED NICKEL-CADMIUM WITH BATTERY PACK AND SELF TEST DIAGNOSTICS.	4.4W LED GREEN	INTEGRAL DRIVER	5	HE WILLIAMS "EXIT CA" SERIES	1, 2
A	RECESSED MOUNTED LED 2x2 DECORATIVE LENS GRID MOUNT	32W LED 3000K 3200 LUMENS	INTEGRAL DRIVER	32	CREE "CR22" SERIES	2
B	RECESSED MOUNTED LED 2x2 EXAM GRID MOUNT	52W LED 3000K 6000 LUMENS	INTEGRAL DRIVER	52.6	HE WILLIAMS "AHT" SERIES	3
C	RECESSED MOUNTED LED 2x2 LAB GRID MOUNT	49W LED 3000K 6000 LUMENS	INTEGRAL DRIVER	49	METALUX "22GR LD5" SERIES	
D	WALL MOUNTED DEOCRATIVE LED SCONCE VANITY 24" WIDTH, FROSTED ACRYLIC SHADE	16W LED 3000K 2436 LUMENS	INTEGRAL DRIVER	16	MAXIM "5200" SERIES	
E	RECESSED MOUNTED LED DOWN LIGHT RESTROOM GRID MOUNT, 6INCH CLEAR APPERATURE	41W LED 3500K 4000 LUMENS	INTEGRAL DRIVER	41	PORTFOLIO "LD4B" SERIES, WIDE DISTRIBUTION FLANGE MOUNT- GYP	
F	RECESSED, LED, 2x2, DECORATIVE LENS GRID MOUNT	42W LED 3500K 4000 LUMENS	INTEGRAL DRIVER	42	HE WILLIAMS "AT3" SERIES	
G	RECESSED MOUNTED LED DOWN LIGHT GRID MOUNT, 6INCH CLEAR APPERATURE	41W LED 3500K 2000 LUMENS	INTEGRAL DRIVER	41	PORTFOLIO "LD4B" SERIES, WIDE DISTRIBUTION	
H	RECESSED, LED, DOWN LIGHT GYP MOUNT, 6INCH CLEAR APPERATURE	10.3W LED 3500K 1000 LUMENS	INTEGRAL DRIVER	10.3	PORTFOLIO "LD4B" SERIES, WIDE DISTRIBUTION	
I	SUSPENDED, DECORATIVE, LED CABLE MOUNT	25W INCANDESCENT	NA	25	TECH LTG "700 TD" SERIES EQUAL BY: LUMI 'ELETTRA' GREY FADE	
J	RECESSED, REGRESSED LENS, LED, NARROW WOOD SLAT CEILING MOUNT, REGRESSED LENS	40W LED 3500K 4000LUMENS	INTEGRAL DRIVER	40	MARK "SL4L RLP" SERIES	
K	SURFACE, DECORATIVE, LED DIRECT, BLACK	57W LED 3500K 3750LUMENS	INTEGRAL DRIVER	57	FORUM "RINGS" SERIES, 24INCH, BLK	2
L	RECESSED, 2X2, LED, TROFFER GRID MOUNT	40W LED 3500K 4000LUMENS	INTEGRAL DRIVER	40	METALUX "22GR LD5" SERIES	
M	SURFACE, 1X4, LED, ACRYLIC LENS SURFACE, GYP	36W LED 3500K 1000 LUMENS	INTEGRAL DRIVER	36	HE WILLIAMS "SL" SERIES	
N	RECESSED, LED, NARROW FLANGE MOUNT, REGRESSED LENS	40W LED 3500K 4000LUMENS	INTEGRAL DRIVER	40	MARK "SL4L RLP" SERIES	
O	SUSPENDED INDIRECT LED 18INCH STEM, FINISH BY ARCHITECT	41W LED 3500K 4000LUMENS	INTEGRAL DIMMING DRIVER	41	AXIS "TB4LED" SERIES	4
P	RECESSED, LED, 2x2, DIMMING GRID MOUNT, INTERFACE WITH DAYLIGHT SENSOR CONTROL	42W LED 3500K 4000LUMENS	INTEGRAL DIMMING DRIVER	42	HE WILLIAMS "AT3" SERIES, WITH DIMMING DRIVER	4
Q	SURFACE, 24INCH, UNDERCOUNTER CASEWORK MOUNTED	11W LED 3500K 627 LUMENS	INTEGRAL DRIVER	11	HALO "HU30" SERIES, 24-INCH, ROCKER SWITCH	
R	SURFACE, 48INCH, UNDERCOUNTER CASEWORK MOUNTED	21W LED 3500K 627 LUMENS	INTEGRAL DRIVER	21	HALO "HU30" SERIES, 48-INCH, ROCKER SWITCH	
S	SURFACE, WALL, LED, DIRECT WALL MOUNT	38W LED 3500K 4250 LUMENS	INTEGRAL DRIVER	38	AXIS "TB3WDLED" SERIES	
T	RECESSED, DOWNLIGHT, SQUARE APPERATURE, DAMP LABEL RECESSED	9W LED 3500K 1000 LUMENS	INTEGRAL DRIVER	9	LITHONIA "LDN6SQ" SERIES	2

SCHEDULE GENERAL NOTES:

A. REFERENCE NOTES ON SHEET E0.3.
B. MANUFACTURER INFORMATION BASED ON LUMINAIRE DESIGN SERIES; PART NUMBERS SHOULD BE BASED ON WRITTEN DESCRIPTION.
C. FOR ALL LED LUMINAIRES, THE LUMEN VALUES LISTED IN THE LAMP TYPE COLUMN REPRESENT THE MINIMUM INITIAL OUTPUT REQUIRED.
F. CONTRACTOR TO VERIFY CEILING COMPATIBILITY OF ALL LUMINAIRE TYPES PRIOR TO ORDERING.
G. ALL LUMINAIRES ARE 120V.

SCHEDULE NOTES:

1. PROVIDE SINGLE FACE, DOUBLE FACE AND ARROWS AS NEEDED. REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL.
2. PROVIDE EMERGENCY BATTERY PACK FOR FIXTURES NOTED IN PLAN BY SHADED SYMBOL. PROVIDE UL 924 CONNECTION.
3. PROVIDE 3 SWITCH CONTROL CONNECTIONS.
4. PROVIDE DIMMING DRIVER.

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LUMINAIRE SCHEDULE

SHEET #
E7.01

MECHANICAL EQUIPMENT SCHEDULE

NOTES:

1 COMBINATION STARTER
2 MANUAL STARTER
3 FUSED DISCONNECT SWITCH
4 NON-FUSED DISCONNECT SWITCH
5 DIRECT CONNECTION
6 CORD AND PLUG
7 NEMA 5-15P
8 NEMA 6-15P
9 INTEGRAL INPUT POWER TERM. BOARD
10 PROVIDE HACR BREAKER PER MFR.
11 VARIABLE FREQUENCY DRIVE

A. FURNISHED AND INSTALLED BY OTHERS
B. FURNISHED BY MANUFACTURER, INSTALLED BY CONTRACTOR
C. FURNISHED AND INSTALLED BY CONTRACTOR

MOCPD - MAXIMUM OVERCURRENT PROTECTIVE DEVICE
MCA - MINIMUM CIRCUIT AMPACITY
FLA - FULL LOAD AMPS
W - WATTS
KW - KILOWATTS
N - NORMAL
E - EMERGENCY

UNIT	DESCRIPTION	EQUIPMENT LOAD				MOCPD	POWER			CONDUIT	WIRES (CU)			STARTER	DISC.	NOTE	
NO.		HP	kW	FLA	MCA	(A/POLE)	TYPE	VOLTS	PHASE	SIZE	NO.	SIZE	GND	SIZE	SWITCH	NO.	REMARKS
DH-1	DUCT HEATER		32.00			60/3	N	480	3	1"	3	#6	#10		60A	3C	
ERV-1	ENERGY RECOVERY UNIT				9.50	15/3	N	480	3	3/4"	3	#12	#12		30A	3C	NEMA 3R
RS-1	HEAT RECOVERY DEVICE				1.00	15/2	N	208	1	1/2"	2	#12	#12			2C	
FC-12/CU-2	SPLIT AC UNIT				8.70	15/2	N	208	1	3/4"	2	#10	#10			3C	NEMA 3R
EF-1	EXHAUST FAN	1/10		3.0		20/1	N	120	1	1/2"	2	#12	#12			2C	NEMA 3R
EF-2	EXHAUST FAN	1/4		5.8		20/1	N	120	1	1/2"	2	#12	#12			2C	NEMA 3R
WH-1	WATER HEATER		18.00	24.0		30/3	N	480	3	3/4"	3	#10	#10		30A	2C	
FCU-1	FAN COIL UNIT				1.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-2	FAN COIL UNIT				1.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-3	FAN COIL UNIT				1.60	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-4	FAN COIL UNIT				1.40	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-5	FAN COIL UNIT				0.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-6	FAN COIL UNIT				0.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-7	FAN COIL UNIT				0.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-8	FAN COIL UNIT				0.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-9	FAN COIL UNIT				1.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-10	FAN COIL UNIT				1.40	15/2	N	208	1	1/2"	2	#12	#12			2C	
FCU-11	FAN COIL UNIT				0.80	15/2	N	208	1	1/2"	2	#12	#12			2C	
CP-1	CIRCULATION PUMP		0.03			20/1	N	120	1	1/2"	2	#12	#12			2C	
CU-1	CONDENSING UNIT				27.90	40/3	N	480	3	1"	3	#8	#10		60A	2C	NEMA 3R

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QUIL CEDA CREEK COUNSELING
TULALIP TRIBES FEDERAL CORPORATION
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TULALIP, WA 98271

PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

MECHANICAL EQUIPMENT SCHEDULE

SHEET #
E7.02

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL HVDC1

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	SPARE C.B.	A	20	1										
3	SPARE C.B.	B	20	1										
5	SPARE C.B.	C	20	1										
7	SPARE C.B.	A	20	1										
9	SPARE C.B.	B	20	1										
11	SPARE C.B.	C	20	1										
13	SPARE C.B.	A	20	1										
15	SPARE C.B.	B	20	1										
17	SPARE C.B.	C	20	1										
19	SPARE C.B.	A	20	1										
21	SPARE C.B.	B	20	1										
23	SPARE C.B.	C	20	1										
2	DH-1	A	60	3						11.85				11.85
4	–	B	–	–						11.85				11.85
6	–	C	–	–						11.85				11.85
8	SPARE C.B.	A	30	3										
10	–	B	–	–										
12	–	C	–	–										
14	CU-1	A	40	3							7.73			7.73
16	–	B	–	–							7.73			7.73
18	–	C	–	–							7.73			7.73
20	HW-1	A	30	3								8.67		8.67
22	–	B	–	–								8.67		8.67
24	–	C	–	–								8.67		8.67

Specifications

Rating (Amps):	100
Voltage (L–L):	480
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	14,000A
Main Lugs Only:	–
Main Ckt Brkr:	100 A
Surface Mtd:	–
Flush Mtd:	X
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	26.25
Phase B:	26.25
Phase C:	26.25
Total Conn.:	78.75
Total Connected Load	
Phase A:	26.25
Phase B:	26.25
Phase C:	26.25
Total Conn.:	78.75
Total Feeder Demand Load	
Total:	60.56 KVA
Avg. Amps/Phase:	73 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles		50% > 10KVA	
Lighting		125%	
Kitchen Equipment		NEC 220.56	
Motors (Largest)		125%	
Motors		100%	
Heating	35.55	NEC 220.60	35.55
Cooling	23.19	NEC 220.60	
Continuous Load	20.01	125%	25.01
Non-Continuous Load		100%	
		100%	
		100%	
TOTAL	78.75		60.56

General Notes:

Keyed Notes:

QCC DOSING CENTER — PANEL SCHEDULE — EXIST. PANEL HV3(1)

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	JET MACHINE CHILLER	A	30	3	1								6.64	6.64
3	–	B	–	–									6.64	6.64
5	–	C	–	–									6.64	6.64
7	AC-3	A	90	3	1						11.05			11.05
9	–	B	–	–							11.05			11.05
11	–	C	–	–							11.05			11.05
13	AC-1	A	90	3	1						11.05			11.05
15	–	B	–	–							11.05			11.05
17	–	C	–	–							11.05			11.05
19	SPARE C.B.	A	30	3										
21	–	B	–	–										
23	–	C	–	–										
25	ELEC. HEAT PKG	A	100	3	1					21.16				21.16
27	–	B	–	–						21.16				21.16
29	–	C	–	–						21.16				21.16
31		A												
33		B												
35		C												
37		A												
39		B												
41		C												
2	JET MACHINE CHILLER	A	90	3	1								17.72	17.72
4	–	B	–	–									17.72	17.72
6	–	C	–	–									17.72	17.72
8	WATER HEATER	A	30	3	1							6.64		6.64
10	–	B	–	–								6.64		6.64
12	–	C	–	–								6.64		6.64
14	AC-6	A	70	3	1						15.51			15.51
16	–	B	–	–							15.51			15.51
18	–	C	–	–							15.51			15.51
20	AC-8	A	70	3	1						15.51			15.51
22	–	B	–	–							15.51			15.51
24	–	C	–	–							15.51			15.51
26		A												
28		B												
30		C												
32		A												
34		B												
36		C												
38		A												
40		B												
42		C												

Specifications

Rating (Amps):	100
Voltage (L–L):	480
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	14,000A
Main Lugs Only:	–
Main Ckt Brkr:	X
Surface Mtd:	X
Flush Mtd:	–
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	105.34
Phase B:	105.34
Phase C:	105.34
Total Conn.:	316.02
Total Connected Load	
Phase A:	105.34
Phase B:	105.34
Phase C:	105.34
Total Conn.:	316.02
Total Feeder Demand Load	
Total:	257.62 KVA
Avg. Amps/Phase:	310 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles		50% > 10KVA	
Lighting		125%	
Kitchen Equipment		NEC 220.56	
Motors (Largest)		125%	
Motors		100%	
Heating	63.45	NEC 220.60	
Cooling	159.54	NEC 220.60	159.54
Continuous Load	19.92	125%	24.90
Non-Continuous Load	73.06	100%	73.06
		100%	
TOTAL	316.02	100%	257.62

General Notes:
1. Loads shown are estimated for information purposes only
2. Provide new panelboard and breakers to serve existing loads

Keyed Notes:
1. Existing circuits extended from existing panelboard

QCC DOSING CENTER — PANEL SCHEDULE — EXIST. PANEL HV3(2)

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	ORCAS RM HEAT	A	20	3	1								4.43	4.43
3	–	B	–	–									4.43	4.43
5	–	C	–	–									4.43	4.43
7	LOBBY HEAT	A	20	3	1								4.43	4.43
9	–	B	–	–									4.43	4.43
11	–	C	–	–									4.43	4.43
13	WHIBEY RM HEAT	A	20	3	1								4.43	4.43
15	–	B	–	–									4.43	4.43
17	–	C	–	–									4.43	4.43
19		A												
21		B												
23		C												
25		A												
27		B												
29		C												
31		A												
33		B												
35		C												
37		A												
39		B												
41		C												
2	CYPRESS RM HEAT	A	20	3								6.64		6.64
4	–	B	–	–								6.64		6.64
6	–	C	–	–								6.64		6.64
8	TSUNAMI RM HEAT	A	20	3	1							4.43		4.43
10	–	B	–	–								4.43		4.43
12	–	C	–	–								4.43		4.43
14	SAN JUAN RM HEAT	A	20	3	1							4.43		4.43
16	–	B	–	–								4.43		4.43
18	–	C	–	–								4.43		4.43
20		A												
22		B												
24		C												
26		A												
28		B												
30		C												
32		A												
34		B												
36		C												
38		A												
40		B												
42		C												

Specifications

Rating (Amps):	100
Voltage (L–L):	480
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	14,000A
Main Lugs Only:	–
Main Ckt Brkr:	X
Surface Mtd:	X
Flush Mtd:	–
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	28.79
Phase B:	28.79
Phase C:	28.79
Total Conn.:	86.37
Total Connected Load	
Phase A:	28.79
Phase B:	28.79
Phase C:	28.79
Total Conn.:	86.37
Total Feeder Demand Load	
Total:	68.37 KVA
Avg. Amps/Phase:	164 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles		50% > 10KVA	
Lighting		125%	
Kitchen Equipment		NEC 220.56	
Motors (Largest)		125%	
Motors		100%	
Heating	86.37	NEC 220.60	68.37
Cooling		NEC 220.60	
Continuous Load		125%	
Non-Continuous Load		100%	
		100%	
TOTAL	86.37	100%	68.37

General Notes:
1. Loads shown are estimated max for informational purposes only
2. Provide new panelboard and breakers to serve existing loads

Keyed Notes:
1. Existing circuits extended from existing panelboard

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL HVDCE(1)

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	PNL HVDCE(2)	A	50	3								4.87		4.87
3	–	B	–	–								4.43		4.43
5	–	C	–	–								4.35		4.35
7	SPACE	A												
9	SPACE	B												
11	SPACE	C												
13	SPACE	A												
15	SPACE	B												
17	SPACE	C												
19	SPACE	A												
21	SPACE	B												
23	SPACE	C												
2	PNL LVDCE – 45kVA XFMR	A	70	3	1							7.40		7.40
4	–	B	–	–								7.40		7.40
6	–	C	–	–								7.40		7.40
8	SPACE	A												
10	SPACE	B												
12	SPACE	C												
14	SPACE	A												
16	SPACE	B												
18	SPACE	C												
20	SPACE	A												
22	SPACE	B												
24	SPACE	C												

Specifications

Rating (Amps):	100
Voltage (L–L):	480
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	14,000A
Main Lugs Only:	–
Main Ckt Brkr:	100 A
Surface Mtd:	–
Flush Mtd:	X
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	11.47
Phase B:	11.83
Phase C	11.75
Total Conn.:	35.05
Total Connected Load	
Phase A:	11.47
Phase B:	11.83
Phase C:	11.75
Total Conn.:	35.05
Total Feeder Demand Load	
Total:	43.81 KVA
Avg. Amps/Phase:	53 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles		50% > 10KVA	
Lighting		125%	
Kitchen Equipment		NEC 220.56	
Motors (Largest)		125%	
Motors		100%	
Heating		NEC 220.60	
Cooling		NEC 220.60	
Continuous Load	35.05	125%	43.81
Non-Continuous Load		100%	
		100%	
		100%	
TOTAL	35.05		43.81

General Notes:
1 NEMA 3R

Keyed Notes:
1 PROVIDE LOCKING HASP

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL: HVDCE(2)

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	LIGHTING	A	20	1			1.20							1.20
3	LIGHTING	B	20	1			1.44							1.44
5	LIGHTING	C	20	1			0.80							0.80
7	LIGHTING	A	20	1			0.12							0.12
9	LIGHTING	B	20	1			0.12							0.12
11	LIGHTING	C	20	1			0.36							0.36
13	LIGHTING	A	20	1			0.12							0.12
15	LIGHTING	B	20	1			0.24							0.24
17	LIGHTING	C	20	1			0.56							0.56
19	LIGHTING – EXTERIOR	A	20	1			0.24							0.24
21	SPACE	B												
23	SPACE	C												
2	ERV-1	A	15	3								2.63		2.63
4	–	B	–	–								2.63		2.63
6	–	C	–	–								2.63		2.63
8	SPARE C.B.	A	20	1										
10	SPARE C.B.	B	20	1										
12	SPARE C.B.	C	20	1										
14	SPARE C.B.	A	20	1										
16	SPARE C.B.	B	20	1										
18	SPACE	C												
20	SPACE	A												
22	SPACE	B												
24	SPACE	C												

Specifications

Rating (Amps):	100
Voltage (L–L):	480
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	14,000A
Main Lugs Only:	–
Main Ckt Brkr:	50 A
Surface Mtd:	–
Flush Mtd:	X
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	4.31
Phase B:	4.43
Phase C	4.35
Total Conn.:	13.09
Total Connected Load	
Phase A:	4.31
Phase B:	4.43
Phase C:	4.35
Total Conn.:	13.09
Total Feeder Demand Load	
Total:	18.36 KVA
Avg. Amps/Phase	20 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles		50% > 10KVA	
Lighting	5.20	125%	6.50
Kitchen Equipment		NEC 220.56	
Motors (Largest)		125%	
Motors		100%	
Heating		NEC 220.60	
Cooling		NEC 220.60	
Continuous Load	7.89	125%	9.86
Non-Continuous Load		100%	
		100%	
		100%	
TOTAL	13.09		18.36

General Notes:

Keyed Notes:

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6/17/2021

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6330 31ST AVE NE
TULALIP, WA 98271

PROJECT # 210223
BID SET
ISSUE DATE JUNE 18, 2021

REVISION SCHEDULE

AHJ APPROVAL STAMP

PANEL SCHEDULES

SHEET #
E7.03

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL LVDC(1)

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	RECEPT CHILD WATCH 101	A	20	1		1.02								1.02
3	RECEPT CHILD WATCH REF	B	20	1				1.20						1.20
5	RECEPT CHILD WATCH KITCHEN	C	20	1				0.18						0.18
7	RECEPT SOCIAL WORKER 102	A	20	1		0.54								0.54
9	RECEPT GROUP COUNSEL REF	B	20	1				1.20						1.20
11	RECEPT GROUP COUNSEL 103	C	20	1		0.36								0.36
13	RECEPT GROUP COUN MICWAVE	A	20	1				1.20						1.20
15	WATER COOLER	B	20	1								0.60		0.60
17	RECEPT COUNS 103, 104	C	20	1		0.72								0.72
19	RECEPT COUNS 106, 107	A	20	1		0.72								0.72
21	RECEPT COUNS 108, 109	B	20	1		0.72								0.72
23	RECEPT HALL 120, 121	C	20	1		0.90								0.90
25	RECEPT COUNS 110, TRIAGE 112	A	20	1		0.72								0.72
27	RECEPT HALL 120	B	20	1		0.72								0.72
29	RECEPT EXAM 113	C	20	1		0.54								0.54
31	RECEPT EXAM 114	A	20	1		0.54								0.54
33	RECEPT LAB 115	B	20	1		0.36								0.36
35	RECEPT WAITING 118	C	20	1		0.90								0.90
37	RECEPT RECEPTION 123	A	20	1		0.36								0.36
39	RECEPT VESTIBULE 100	B	20	1		0.72								0.72
41	RECEPT HALL 200	C	20	1		0.54								0.54
2	FCU-1	A	15	2						0.19				0.19
4	–	B	–	–						0.19				0.19
6	SPARE C.B.	C	15	2										
8	–	A	–	–										
10	FCU-5	B	15	2						0.08				0.08
12	–	C	–	–						0.08				0.08
14	FCU-6	A	15	2						0.08				0.08
16	–	B	–	–						0.08				0.08
18	FCU-9	C	15	2						0.15				0.15
20	–	A	–	–						0.15				0.15
22	FCU-10	B	15	2						0.15				0.15
24	–	C	–	–						0.15				0.15
26	FCU-11	A	15	2						0.08				0.08
28	–	B	–	–						0.08				0.08
30	EF-2	C	20	1					0.70					0.70
32	CP-1	A	20	1										
34	SPARE C.B.	B	20	1										
36	SPARE C.B.	C	20	1										
38	SPARE C.B.	A	20	1										
40	SPARE C.B.	B	20	1										
42	SPARE C.B.	C	20	1										

Specifications

Rating (Amps):	400
Voltage (L-L):	208
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	10,000A
Main Lugs Only:	–
Main Ckt Brkr:	400 A
Surface Mtd:	–
Flush Mtd:	X
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	X
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	5.60
Phase B:	6.10
Phase C:	5.22
Total Conn.:	16.92
Total Connected Load	
Phase A:	5.60
Phase B:	6.10
Phase C:	5.22
Total Conn.:	16.92
Total Feeder Demand Load	
Total:	16.30 KVA
Avg. Amps/Phase:	45 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles	10.38	50%>10KVA	10.19
Lighting		125%	
Kitchen Equipment	3.78	NEC 220.56	3.02
Motors (Largest)	0.70	125%	0.87
Motors		100%	
Heating	1.46	NEC 220.60	1.46
Cooling		NEC 220.60	
Continuous Load	0.60	125%	0.75
Non-Continuous Load		100%	
		100%	
		100%	
TOTAL	16.92		16.30

General Notes:

Keyed Notes:

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL: LVDC(2)

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	RECEPT STORAGE 206	A	20	1		0.36								0.36
3	RECEPT STAFF LOUNGE KITCHEN	B	20	1				0.18						0.18
5	RECEPT STAFF LOUNGE KITCHEN	C	20	1				0.18						0.18
7	RECEPT STAFF MICOWAVE	A	20	1										
9	RECEPT STAFF LOUNGE 204	B	20	1		0.54								0.54
11	RECEPT ADMIN OFFICE 202	C	20	1		0.54								0.54
13	RECEPT BILLING 201	A	20	1		0.54								0.54
15	RECEPT DISPENSARY 131	B	20	1		0.72								0.72
17	RECEPT DISPENSARY 131	C	20	1		0.90								0.90
19	RECEPT ADMIN WORK 122	A	20	1		0.54								0.54
21	RECEPT ADMIN WORK 122 COPIER	B	20	1									1.20	1.20
23	RECEPT EXTERIOR	C	20	1		0.18								0.18
2	STAFF WASHER/DYER	A	30	2									2.50	2.50
4	SPARE C.B.	B	–	–									2.50	2.50
6	SPARE C.B.	C	20	1										
8	SPARE C.B.	A	20	1										
10	SPARE C.B.	B	20	1										
12	SPARE C.B.	C	20	1										
14	SPARE C.B.	A	150	3	1									
16	–	B	–	–										
18	–	C	–	–										
20	SPARE C.B.	A	150	3	1									
22	–	B	–	–										
24	–	C	–	–										

Specifications

Rating (Amps):	400
Voltage (L-L):	208
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	10,000A
Main Lugs Only:	X
Main Ckt Brkr:	
Surface Mtd:	–
Flush Mtd:	X
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	3.94
Phase B:	5.14
Phase C:	1.80
Total Conn.:	10.88
Total Connected Load	
Phase A:	3.94
Phase B:	5.14
Phase C:	1.80
Total Conn.:	10.88
Total Feeder Demand Load	
Total:	10.88 KVA
Avg. Amps/Phase:	30 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles	4.32	50%>10KVA	4.32
Lighting		125%	
Kitchen Equipment	0.36	NEC 220.56	0.36
Motors (Largest)		125%	
Motors		100%	
Heating		NEC 220.60	
Cooling		NEC 220.60	
Continuous Load		125%	
Non-Continuous Load	6.20	100%	6.20
		100%	
		100%	
TOTAL	10.88		10.88

General Notes:

Keyed Notes:
1 Provide breaker for future expansion. Provide 2-inch conduit stubbed to west area above ceiling

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL: LVDCE1

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr	Htg.	Clg.	Cont.	Non.	Total
1	DOSING EQUIPMENT	A	20	1									0.80	0.80
3	RECEPT LAB EQUIPMENT	B	20	1		1.20								1.20
5	RECEPT LAB EQUIPMENT	C	20	1		0.54								0.54
7	RECEPT LAB EQUIPMENT	A	20	1		0.54								0.54
9	RECEPT LAB EQUIPMENT	B	20	1		1.20								1.20
11	RECEPT LAB EQUIPMENT	C	20	1		1.20								1.20
13	RECEPT SECURITY	A	20	1		0.54								0.54
15	RECEPT EXAM 113, 114	B	20	1		0.54								0.54
17	RECEPT VITALS, TRIAGE, NURSE	C	20	1		0.36								0.36
19	RECEPT PROVIDER 110, 109, 108	A	20	1		0.72								0.72
21	RECEPT PROVIDER 106, 104	B	20	1		0.72								0.72
23	RECEPT BILLING 201, ADMIN 202	C	20	1										
25	RECEPT AV MONITOR	A	20	1		1.08								1.08
27	SPARE C.B.	B	20	1										
29	SPARE C.B.	C	20	1										
31	SPARE C.B.	A	20	1										
33	SPARE C.B.	B	20	1										
35	SPARE C.B.	C	20	1										
37	SPARE C.B.	A	70	3	1									
39		B	–	–										
41		C	–	–										
2	PNL LVIT	A	50	3								3.70		3.70
4	–	B	–	–								1.70		1.70
6	–	C	–	–								2.30		2.30
8	FC-12/CU-2	A	15	2							0.80			0.80
10	–	B	–	–							0.80			0.80
12	FCU-2	C	15	2						0.19				0.19
14	–	A	–	–						0.19				0.19
16	FCU-3	B	15	2						0.17				0.17
18	–	C	–	–						0.17				0.17
20	FCU-4	A	15	2						0.15				0.15
22	–	B	–	–						0.13				0.13
24	FCU-7	C	15	2						0.08				0.08
26	–	A	–	–						0.08				0.08
28	FCU-8	B	15	2						0.08				0.08
30	–	C	–	–						0.08				0.08
32	EF-1	A	20	1					0.36					0.36
34	GENSET BATT CHARGER	B	20	1								0.20		0.20
36	JACKET HEATER	C	20	1								1.00		1.00
38	IVSS	A	30	3	2									
40	–	B	–	–										
42	–	C	–	–										

Specifications

Rating (Amps):	200
Voltage (L-L):	208
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	10,000A
Main Lugs Only:	–
Main Ckt Brkr:	150 A
Surface Mtd:	–
Flush Mtd:	X
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	8.56
Phase B:	6.56
Phase C:	5.92
Total Conn.:	21.04
Total Connected Load	
Phase A:	8.56
Phase B:	6.56
Phase C:	5.92
Total Conn.:	21.04
Total Feeder Demand Load	
Total:	22.31 KVA
Avg. Amps/Phase:	62 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles	8.64	50%>10KVA	8.64
Lighting		125%	
Kitchen Equipment		NEC 220.56	
Motors (Largest)	0.36	125%	0.45
Motors		100%	
Heating	1.34	NEC 220.60	1.34
Cooling	1.20	NEC 220.60	
Continuous Load	9.50	125%	11.88
Non-Continuous Load		100%	
		100%	
		100%	
TOTAL	21.04		22.31

General Notes:

Keyed Notes:
1 Provide spare breaker for future expansion. Provide 1 1/4 inch conduit stubbed to west area above ceiling
2 Provide transient voltage surge suppressor

QCC DOSING CENTER — PANEL SCHEDULE — NEW PANEL LVIT

210223

Location: | Feed Through: | Source:

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	RECEPT – SERVER CABINET	A	30	1								2.50		2.50
3	SECURITY CABINET	B	20	1								0.50	0.50	0.50
5	SECURITY CABINET	C	20	1								0.50	0.50	0.50
7	SPARE C.B.	A	20	1										
9	SPARE C.B.	B	20	1										
11	SPARE C.B.	C	20	1										
2	RECEPT	A	20	1		1.20								1.20
4	RECEPT	B	20	1		1.20								1.20
6	RECEPT – SERVER CABINET	A	20	1								1.80		1.80
8	TVSS	A	30	3	1									
10	–	B	–	–										
12	–	C	–	–										

Specifications

Rating (Amps):	100
Voltage (L-L):	208
Phase:	3
Wire:	4
Bus Material:	Cu
Int. Rating:	10,000A
Main Lugs Only:	–
Main Ckt Brkr:	50 A
Surface Mtd:	X
Flush Mtd:	–
Bonded Gnd:	–
Isolated Gnd:	–
200% Neutral:	–
Feed Thru:	–
Double Lug:	–
Top Feed:	–
Bottom Feed	–

Feed Thru Load	NONE
Phase A:	
Phase B:	
Phase C:	
Total Conn.:	
Load From This Panel	
Phase A:	3.70
Phase B:	1.70
Phase C:	2.30
Total Conn.:	7.70
Total Connected Load	
Phase A:	3.70
Phase B:	1.70
Phase C:	2.30
Total Conn.:	7.70
Total Feeder Demand Load	
Total:	9.63 KVA
Avg. Amps/Phase:	25 A

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles	2.40	50%>10KVA	2.40
Lighting		125%	
Kitchen Equipment		NEC 220.56	
Motors (Largest)		125%	
Motors		100%	
Heating		NEC 220.60	
Cooling		NEC 220.60	
Continuous Load	5.30	125%	8.63
Non-Continuous Load		100%	
		100%	
		100%	
TOTAL	7.70		9.03

General Notes:

Keyed Notes:
1 Provide transient voltage surge suppressor

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PROJECT # 210223
BID SET
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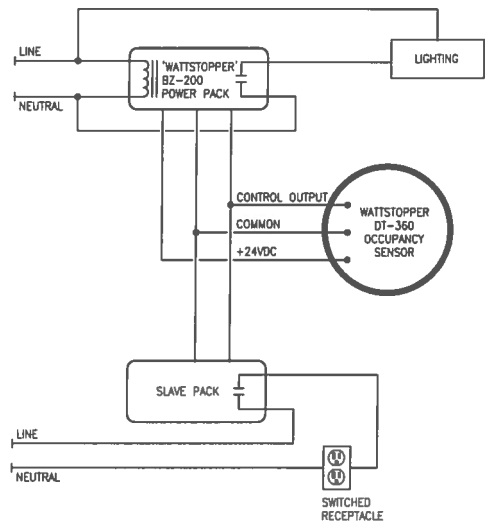
REVISION SCHEDULE

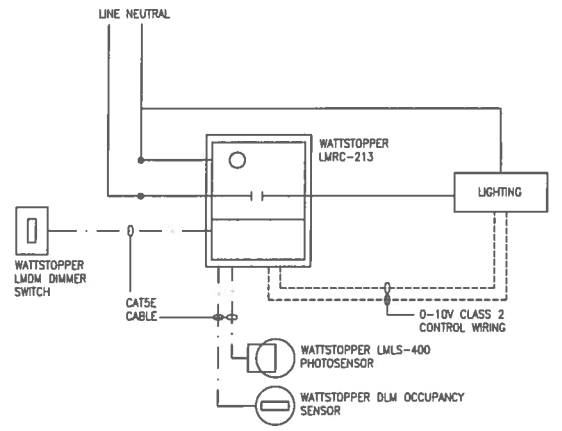
AHJ APPROVAL STAMP

PANEL SCHEDULES

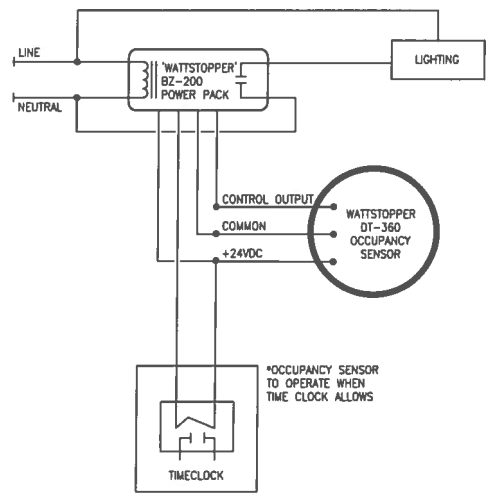
SHEET #
E7.04



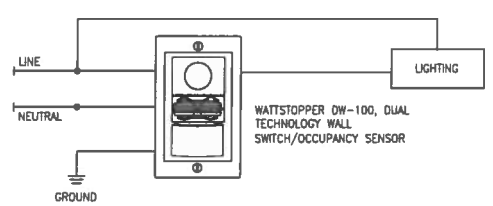
1 E7.05 SWITCHED RECEPTCLE/OCCUPANCY SENSOR CONTROL DIAGRAM
SCALE: NTS



2 E7.05 DAYLIGHT SENSOR CONTROL DIAGRAM
SCALE: NTS



3 E7.05 TIMECLOCK/OCCUPANCY SENSOR CONTROL DIAGRAM
SCALE: NTS



4 E7.05 WALL SWITCH OCCUPANCY SENSOR CONTROL DIAGRAM
SCALE: NTS

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DETAILS AND DIAGRAMS

SHEET #
E7.05

1 FIRST FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"

NORTH

GENERAL NOTES

1. EXISTING MAINS AND BRANCH LINES SHOWN ON DRAWING ARE SCHEMATIC IN NATURE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. ALL EXISTING PIPING TO BE MAINTAINED WHEREVER POSSIBLE.
3. NEW COMPONENTS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13.
4. PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS FOR REVIEW BY ENGINEER AND OWNER PRIOR TO INSTALLATION.
5. SPRINKLER LOCATIONS SHOULD BE COORDINATED WITH ARCHITECT TO CENTER OF CEILING TILE WHERE POSSIBLE.

PROJECT NOTES

1. DEMOLISH EXISTING BELOW CEILING SPRINKLERS IN AREA OF WORK.
2. UTILIZE EXISTING 1" DROPS TO SUPPLY NEW SPRINKLERS IN AREA OF WORK. REVISE DROPS AS NECESSARY TO ACCOMMODATE NEW CEILINGS.
3. NEW SPRINKLERS TO BE QUICK RESPONSE, CONCEALED PENDANTS ON FLEXIBLE DROPS.
4. USE LIGHT HAZARD SPACING THROUGHOUT AREA OF WORK WITH THE EXCEPTION OF STORAGE AND MECHANICAL ROOMS, WHICH SHOULD HAVE ORDINARY HAZARD SPACING. UNUSED SPRINKLER DROPS MAY BE PLUGGED ABOVE CEILING.
5. LEAVE EXISTING UPRIGHT SPRINKLERS ABOVE DROPPED CEILING AS-IS TO PROTECT COMBUSTIBLE CONCEALED SPACE.
6. ACCORDING TO PLACARDS ON RISER #1 & #2, ORIGINAL SPRINKLER SYSTEMS WERE DESIGNED TO PROVIDE 0.3 GPM/SQ. FT. OVER MOST REMOTE 2,000 SQ. FT.

FLAG NOTES

1. EXISTING 4" MAIN RUNS ALONG SOUTH WALL, FED FROM RISER #2 (8"), WHICH IS LOCATED ALONG THE SOUTH WALL BETWEEN COLUMN LINES 5 & 6.
2. EXISTING 2" BRANCH LINES CONNECT THE 4" MAINS TO MAKE A GRIDDED SYSTEM. BRANCH LINES ARE SPACED APPROXIMATELY 10' APART AND APPROXIMATELY 19'5" ABOVE THE FLOOR LEVEL.
3. EXISTING SPRINKLERS ARE SPACED APPROXIMATELY 10' - 13' ALONG BRANCH LINES, SUPPLIED BY 1" DROPS TO CEILING LEVEL. UPRIGHT SPRINKLERS ARE LOCATED AT TOP OF EACH 1" DROP TO PROTECT COMBUSTIBLE CONCEALED SPACE ABOVE DROPPED CEILING.
4. 4" MAIN. OPPOSITE END OF GRIDDED SYSTEM #2
5. 4" MAIN. OPPOSITE END OF GRIDDED SYSTEM #1
6. WALLS OF SAFE ROOM WILL CONTINUE ABOVE CEILING TO THE ROOF. VERIFY SPRINKLER PROTECTION WITHIN THIS COMBUSTIBLE CONCEALED SPACE IS ADEQUATE OR IF AN ADDITIONAL SPRINKLER IS REQUIRED DUE TO ABOVE CEILING SPACING. IT IS RECOMMENDED SPRINKLER PROTECTION IS REVISED PRIOR TO WALL CONSTRUCTION FOR THE ABOVE CEILING SPACE DUE TO THE INSTALLATION OF METAL SECURITY MESH.

FIRE PROTECTION DRAWINGS ARE NOT FOR PERMIT
DRAWINGS ARE FOR REFERENCE ONLY
FIRE PROTECTION PERMIT TO BE OBTAINED BY DESIGN-BUILD SPRINKLER CONTRACTOR VIA DIFFERED SUBMITTAL

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FIRST FLOOR FIRE PROTECTION PLAN

SHEET #
FP101