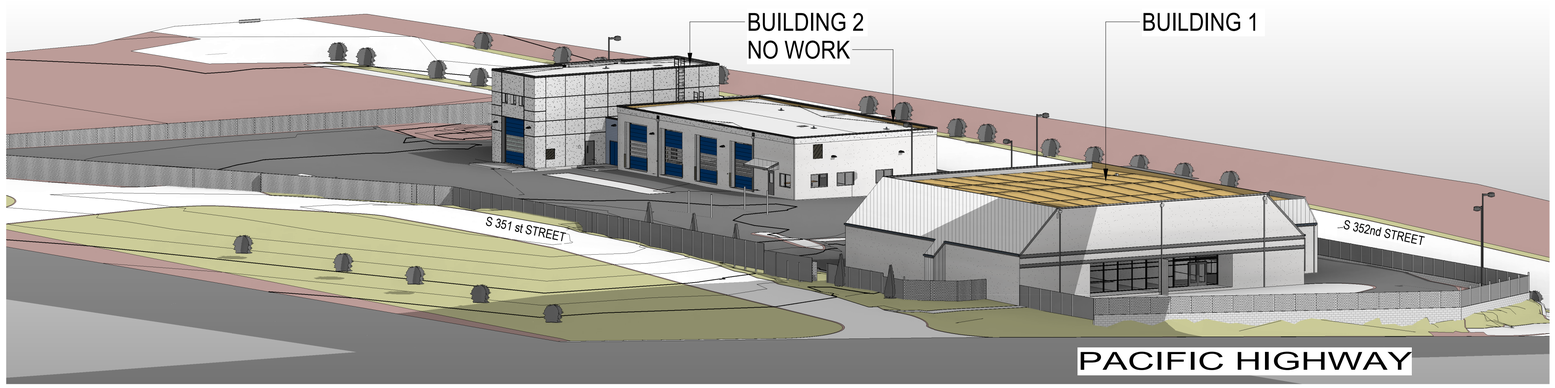
SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS



PROJECT DESCRIPTION - BUILDING 1

PROJECT TEAM

OWNER:

SOUTH KING FIRE & RESCUE
31617 1ST AVENUE
FEDERAL WAY, WASHINGTON 98003
PHONE: 253-927-3118

ARCHITECT:

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MECHANICAL & PLUMBING:

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ENVIRONMENTAL:

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PHONE: 206-381-1128
CONTACT: DERICA ESCAMILLA
EMAIL: DericaE@ehsintl.com

GOVERNING CODES

2015 INTERNATIONAL BUILDING CODE (IBC)
- WASHINGTON STATE AMENDMENTS, WAC 51-50 AND] RCW 19.27 & 70.92
- ACCESSIBILITY CODE ICC/ANSI A117.1-2009

2015 INTERNATIONAL CODE (IRC)
- WASHINGTON STATE AMENDMENTS, WAC 51-11R, 51-56 AND 296-46B

2015 INTERNATIONAL MECHANICAL CODE (IMC)
- WASHINGTON STATE AMENDMENTS, WAC 51-52 AND RCW 19.27

2015 INTERNATIONAL FIRE CODE (IFC)
- WASHINGTON STATE AMENDMENTS, WAC 51-54A AND RCW 19.27

2015 WASHINGTON STATE ENERGY CODE (WSEC)
2014 NATIONAL ELECTRICAL CODE
- WASHINGTON STATE AMENDMENTS, WAC 296-43, 296-45 &296-46B AND RCW 19.28 2015 UNIFORM PLUMBING CODE (UPC)
- WASHINGTON STATE AMENDMENTS, WAC 51-56 AND RCW 19.27

PROJECT INFORMATION

TAX PARCELS NUMBER: 202104-9148 AND 20214-9059

ZONING: CE - COMMERCIAL ENTERPRISE

PER PERMIT# 17-100355-00-AD, NEW USE PERMITTED PURSUANT TO FWRC 19.240.130 ZONE AND USE REVIEW
ZONING: **GOVERNMENT FACILITIES**

TOTAL SITE AREA 2.35 ACRES

SCOPE OF WORK

BUILDING 1:
INTERIOR REMODELING AND IMPROVEMENTS AS SHOWN ON DRAWINGS. NO EXTERIOR ENVELOPE OR SITEWORK REQUIRED

VICINITY MAP
NOT TO SCALE



DRAWING INDEX

SHEET #	SHEET NAME
GENERAL	
A00.01	COVER SHEET
A00.02	ABBREVIATIONS AND SYMBOLS
A02.01	BLDG 1 - FIRE & LIFE SAFETY PLANS
ARCHITECTURAL	
A21.01	BLDG 1 - LEVEL 1 DEMO PLAN
A21.03	BLDG 1 - LEVEL 1 DEMO RCP
A21.11	BLDG 1 - FLOOR PLANS
A22.01	BLDG 1 - LEVEL 1 RCP
A26.01	ALTERNATE #1 FLOOR PLANS
A26.02	ALTERNATE 1 DETAILS
A30.01	DEMOLITION ELEVATIONS
A31.01	EXTERIOR ELEVATIONS
A70.01	INTERIOR ELEVATIONS
A71.01	INTERIOR DETAILS
MECHANICAL	
M11.01	COVER SHEET
M11.02	NOTES & SCHEDULES
M21.01	BLDG 1 - LEVEL 1 DEMO PLAN
M21.11	BLDG 1 - LEVEL 1 PLAN
M23.01	DETAILS
PLUMBING	
P11.01	COVER SHEET
P11.02	NOTES
P21.01	BLDG 1 - LEVEL 1 DEMO PLAN
P21.11	BLDG 1 - LEVEL 1 PLAN
P23.01	DETAILS
ELECTRICAL	
E10.01	ELECTRICAL LEGEND, ABBREVIATION & NOTES
E10.02	ELECTRICAL SPECIFICATION
E21.01	BLDG 1 - LEVEL 1 ELECTRICAL DEMOLITION PLAN
E21.02	BLDG 1 - LEVEL 1 LIGHTING DEMOLITION PLAN
E22.01	BLDG 1 - LEVEL 1 ELECTRICAL PLAN
E22.02	BLDG 1 - LEVEL 1 LIGHTING PLAN
E26.01	PANEL SCHEDULES
E71.01	TELECOMMUNICATIONS DETAILS
E71.02	TELECOMMUNICATIONS DETAILS

TOTAL: 32

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4794 REGISTERED ARCHITECT
DAVID A. FERGUS
STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 60
35100 PACIFIC HIGHWAY SOUTH,
FEDERALWAY, WA 98003

PROJECT # 2015137

BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

COVER SHEET

SHEET #
A00.01

ABBREVIATION LIST

-- A --	
A	AMP
A/V	AUDIO VISUAL
AB	ANCHOR BOLT
ACC	ACCESSORIES
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 --	
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BR	BEDROOM
BTWN	BETWEEN
BUR	BUILT UP ROOF(ING)
-- C --	
CAB	CABINET
CALC	CALCULATION
CB	CATCH BASIN, CORNER BEAD
CEM	CEMENT
CFOI	CONTRACTOR FURNISHED & OWNER INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
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
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COV	COVE
CP	CEMENT PLASTER
CPT	CARPET
CRL	CHAIR RAIL
CS	CONCRETE SEALER
CSMT	CASEMENT
CTR	CENTER
-- D --	
D	DEEP, DRYER
DBL	DOUBLE
DEB	DRY ERASE BOARD
DEMO	DEMOLISH, 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	EAST
EA	EACH
EC	EDGE OF CURB
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR, ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSE(D), ENCLOSURE
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST	EXISTING
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	FINISHED
FIN FLR	FINISHED FLOOR
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FMF	FLEXIBLE MEMBRANE FLASHING
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPL	FIREPLACE
FRP	FIBER REINFORCED PLASTIC
--F--	
FPL	FIREPLACE
FRP	FIBER REINFORCED PLASTIC
FRTW	FIRE RETARDANT TREATED WOOD
FRZ	FREEZER
FS	FULL SIZE
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FUT	FUTURE
-- G --	
G	GROUND
GA	GAUGE
GALV	GALVANIZED
GAR	GARAGE
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFRG	GLASS REINFORCED PLASTER, GLASS FIBER REINFORCED GYPSUM
GI	GALVANIZED IRON
GL	GLASS
GLULAM	GLUE LAMINATED
GR	GROSS
GT	GROUT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
-- H --	
H	HIGH, HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HGR	HANGER
HM	HOLLOW METAL
HRL	HANDRAIL
HORIZ	HORIZONTAL
HR	HOURS
HT	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HWT	HOT WATER TANK
-- I --	
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER, INSIDE DIMENSION
IFC	INTERNATIONAL FIRE CODE
IIC	IMPACT INSULATION CLASS
IMC	INTERNATIONAL MECHANICAL CODE
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, LINEN, LONG
LAB	LABORATORY
LAM	LAMINATE(D)
LAU	LAUNDRY
LAV	LAVATORY
LB(S)	POUND(S)
LDG	LANDING
LINO	LINOLEUM
LL	LIVE LOAD
LOC	LOCATION
LPT	LOW POINT
LR	LIVING ROOM
LRG	LARGE
LT	LIGHT
LTG	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	MECHANIC(AL)
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 --	
O/	OVER
OA	OVERALL
OC	ON CENTER
OCC	OCCUPANTS, OCCUPANT LOAD, OCCUPANCY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED & CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED & OWNER INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OGL	OBSCURE GLASS
OHDR	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
-- P --	
P	PAINT(ED), PANTRY
PC	PORTLAND CEMENT
PCC	PRECAST CONCRETE
PED	PEDESTAL
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PFP	PREPARED FOR PAINT
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PMTL	PAINTED METAL
PNT	POINT
PP	POWER POLE
PR	PAIR
PREFAB	PREFABRICATE
PRELY	PRELIMPRELIMINARY
PRKG	PARKING
PROP	PROPERTY
PS	PROJECTOR SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESERVATIVE TREATED, PRESSURE TREATED, POST TENSIONED
PTD	PAPER TOWEL DISPENSER
PTDWRC	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE, POLYVINYL CHLORIDE PIPE
PVD	PROVIDE
PVG	PAVING
PVR	PAVERS
-- Q --	
QTY	QUANTITY
QTZ	QUARTZ
-- R --	
R	RISER, RANGE, RADIUS
R/S	ROD & SHELF
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE, REFRIGERATOR
REINF	REINFORCE(D), REINFORCING
RES	RESILIENT FLOORING
REQD	REQUIRED
REST	RESTROOM
RET	RETAINING
REV	REVISED, REVISION
RF	RAISED FLOOR(ING)
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RP	RADIUS POINT
RS	ROUGH SAWN
RT	RIGHT
RVL	REVEAL
-- S --	
S	SOUTH, SINK
SAFF	SELF ADHERE FLEXIBLE FLASHING
SAN	SANITARY
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISH, SOAP DISPENSER, STORM DRAIN
SEAL	SEALER, SEALANT
SECT	SECTION
SEP	SEPARATION
SF	SQUARE FEET
SG	SAFETY GLASS, SAFETY GLAZING
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING, SHEETING
SHLV	SHELVING
SIM	SIMILAR
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SOG	SLAB ON GRADE
SOL	SOLID SURFACE
STO	STONE
SPECS	SPECIFICATION(S)
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SQIN	SQUARE INCH
SS	SERVICE SINK, SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET, STAIN
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
-- S --	
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
TB	TOWEL BAR
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
TPD	TOILET PAPER DISPENSER
TR	TRANSITION STRIP
TV	TELEVISION
TYP	TYPICAL
-- U --	
UC	UNDERCOUNTER, UNDERCABINET, UNDERCUT
UGND	UNDERGROUND
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UP	UTILITY POLE
UPC	UNIFORM PLUMBING CODE
UTIL	UTILITY
-- V --	
V	VOLT(AGE)
VCT	VINYL COMPOSITION TILE
VEH	VEHICLE
VEND	VENDING MACHINE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VTO	VENT TO OUTSIDE
VTR	VENT THROUGH ROOF
-- W --	
W	WEST, WIDE, WASHING MACHINE
W/	WITH
W/D	WASHER & DRYER
W/O	WITHOUT
WB	WALL BASE
WC	WATER CLOSET, WALL COVERING
WCO	WINDOW COVERING
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WATER HEATER
WIC	WALK-IN CLOSET
WM	WIRE MOLD, WATER METER, WIRE MESH
WO	WALK-OFF FLOORING
WP	WORK POINT, WATERPROOFING, WEATHER PROOF
WPM	WATERPROOF MEMBRANE
WR	WATER REPELLENT, WATER RESISTANT
WRB	WATER RESISTANT BARRIER
WRC	WAIST RECEPTACLE
WSCT	WAINSCOT
WSEC	WASHINGTON STATE ENERGY CODE
WSVIAQC	WASHINGTON STATE VENTILATION & INDOOR AIR QUALITY CODE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
--ASSOCIATIONS--	
AISI	AMERICAN IRON AND STEEL INSTITUTE
AMCA	AIR MOVING & CONDITIONING ASSOCIATION, INC.
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARIB	ASPHALT ROOFING INDUSTRY BUREAU
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWI	AMERICAN WOODWORK INSTITUTE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CS	COMMERCIAL STANDARD OF THE U.S. DEPARTMENT OF COMMERCE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
FGMA	FLAT GLASS MARKETING ASSOCIATION
HUD	US DEPARTMENT OF HEALTH AND URBAN DEVELOPMENT
ICC	INTERNATIONAL CODE COUNCIL
IBC	INTERNATIONAL BUILDING CODE
IEEE	INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS
IPCEA	INSULATED POWER CABLE ENGINEER ASSOCIATION
MLA	METAL LATH ASSOCIATION
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
NEMA	NATIONAL FIRE PROTECTION ASSOCIATION
NWMA	NATIONAL WOODWORK MANUFACTURER'S ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PS	PRODUCT STANDARD OF U.S. DEPARTMENT OF COMMERCE
SDI	STEEL DECK INSTITUTE
SDI	STEEL DOOR INSTITUTE
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SSPC	STEEL STRUCTURES PAINTING COUNCIL
TCA	TILE COUNCIL OF AMERICA
UL	UNDERWRITER'S LABORATORIES
WAC	WASHINGTON ADMINISTRATIVE CODE
WISHA	WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT
WSDOH	WASHINGTON STATE DEPARTMENT OF HEALTH
WSDSHS	WASHINGTON STATE DEPARTMENT OF SOCIAL AND HEALTH SERVICES
WSEC	WASHINGTON STATE ENERGY CODE
WSVIAQC	WASHINGTON STATE VENTILATION & INDOOR AIR QUALITY CODE
WWPA	WESTERN WOOD PRODUCTS ASSOCIATION

SYMBOL LEGEND

SHEET # / DET # — EXTERIOR ELEVATION TAG

SHEET # / DET # — INTERIOR ELEVATION TAG

1 / AX.XX — EXTERIOR SECTION TAG

1 / AX.XX — WALL / STAIR SECTION TAG

1 / AX.XX — DETAIL SECTION TAG

ENLARGED DETAIL REFERENCE

1 / AX.XX

@##@ — WALL / PARTITION TYPE TAG

W# — WINDOW TAG

S# — STOREFRONT TAG

— DOOR TAG

— FINISH TAG

— FURNITURE/EQUIPMENT TAG

— KEYNOTE TAG

NON-TYPICAL WALL FINISH LOCATION (FLOOR PLAN)

TRANSITION LINE

FINISH 1 / FINISH 2 — FLOOR FINISH TRANSITION (FLOOR PLAN)

ROOM NAME / ### / WALL BASE FLOOR — ROOM TAG W/ TYPICAL FINISHES (FLOOR PLAN)

CEILING TYPE / HEIGHT — CEILING TAG

ROOM NAME / ### / CEILING — ROOM TAG W/ TYPICAL CEILING FINISH (REFLECTED CEILING PLAN)

NAME / ELEVATION — DATUM TAG

ELEVATION — SPOT ELEVATION

A / 1 — GRID LINE

RISE / RUN — SLOPE ARROW

N — NORTH ARROW

REVISION TAG AND CLOUD

MATCH LINE

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FEDERALWAY, WA 98003

PROJECT # 2015137

BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

ABBREVIATIONS AND SYMBOLS

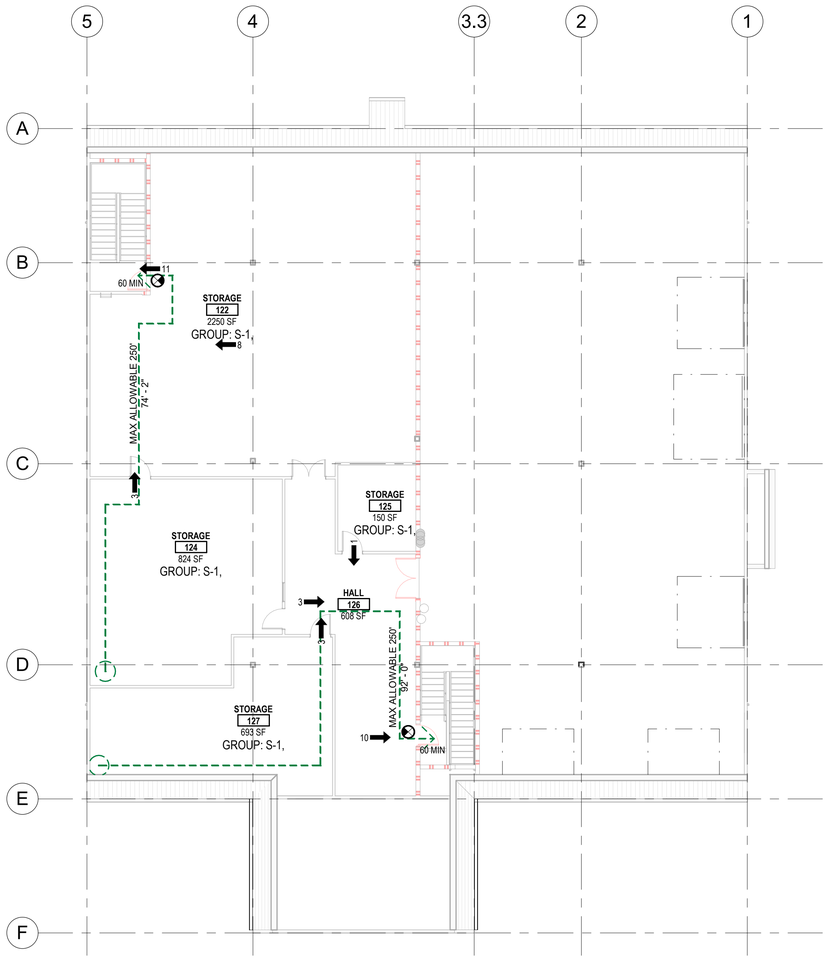
SHEET #
A00.02

BLDG 1 OCCUPANT LOAD CHART

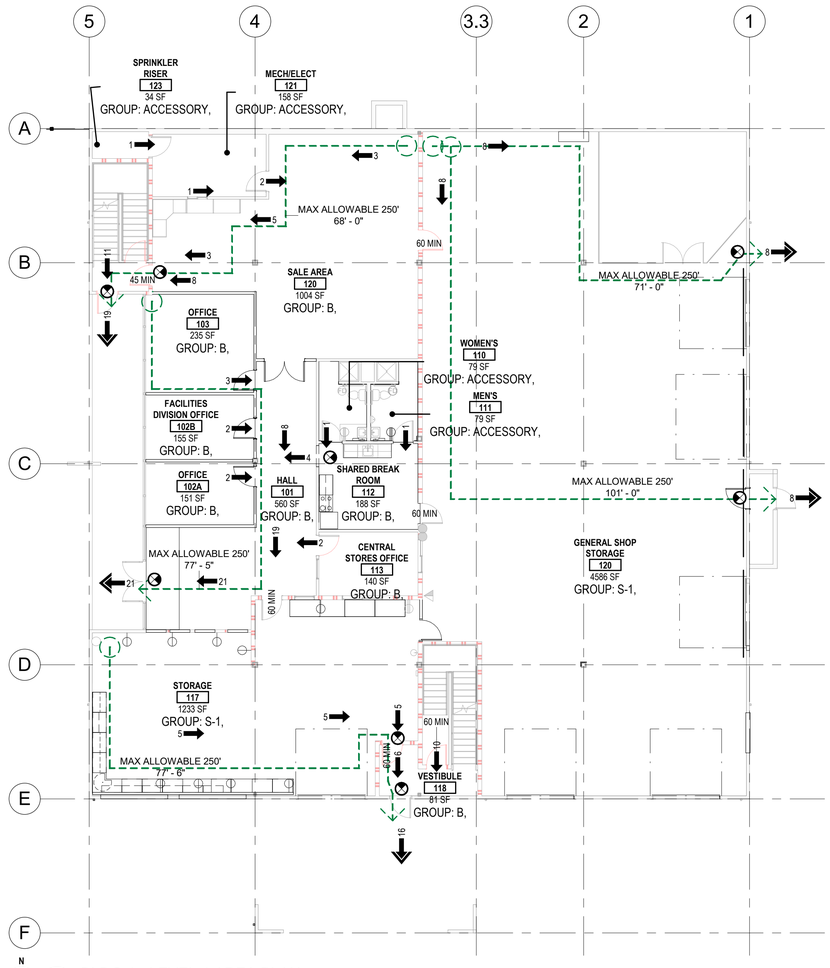
ROOM INORMATION			MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT			NUMBER OF OCCUPANTS
NUMBER	NAME	AREA	FUNCTION OF SPACE	GROSS/NET	LOAD FACTOR	
Not Placed						
119	STORAGE	Not Placed	S-1 STORAGE	GROSS		
						0
BLDG 1 LEVEL 1						
101	HALL	560 SF	GROUP B BUSINESS	GROSS	100 SF	8
102A	OFFICE	151 SF	GROUP B BUSINESS	GROSS	100 SF	2
102B	FACILITIES DIVISION OFFICE	155 SF	GROUP B BUSINESS	GROSS	100 SF	2
103	OFFICE	235 SF	GROUP B BUSINESS	GROSS	100 SF	3
110	WOMEN'S	79 SF	ACCESSORY	GROSS	300 SF	1
111	MEN'S	79 SF	ACCESSORY	GROSS	300 SF	1
112	SHARED BREAK ROOM	188 SF	GROUP B BUSINESS	GROSS	100 SF	2
113	CENTRAL STORES OFFICE	140 SF	GROUP B BUSINESS	GROSS	100 SF	2
117	STORAGE	1233 SF	S-1 STORAGE	GROSS	300 SF	5
118	VESTIBULE	81 SF	ACCESSORY	GROSS	300 SF	1
120	GENERAL SHOP STORAGE	4586 SF	S-1 STORAGE	GROSS	300 SF	16
						43
BLDG 1 - LEVEL 2						
122	STORAGE	2250 SF	S-1 STORAGE	GROSS	300 SF	8
124	STORAGE	824 SF	S-1 STORAGE	GROSS	300 SF	6
125	STORAGE	150 SF	S-1 STORAGE	GROSS	300 SF	1
126	HALL	608 SF	S-1 STORAGE	GROSS	300 SF	3
127	STORAGE	693 SF	S-1 STORAGE	GROSS	300 SF	3
						21
TOTAL						64

F&LS PLAN LEGEND

- 1 HOUR FIRE PARTITION
- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- EXIT SIGN
- FE — FIRE EXTINGUISHER CABINET
- 45 MIN — DOOR FIRE RATING
- ROOM NAME / 0000 / 150 SF — ROOM TAG W/ OCCUPANT LOAD COUNT
- GROUP: S-1, [#]
- PATH OF EGRESS TRAVEL
- 123 — EXIT ACCESS OCCUPANT LOAD
- 123 — EXIT DISCHARGE OCCUPANT LOAD



N 2 BLDG 1 - LEVEL 2 AREA PLAN
3/32" = 1'-0"



N 1 BLDG 1 - LEVEL 1 AREA PLAN
3/32" = 1'-0"

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360-377-8773
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4794 REGISTERED ARCHITECT
DAVID A. FERGUS
STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 60
35100 PACIFIC HIGHWAY SOUTH,
FEDERALWAY, WA 98003

PROJECT # 2015137

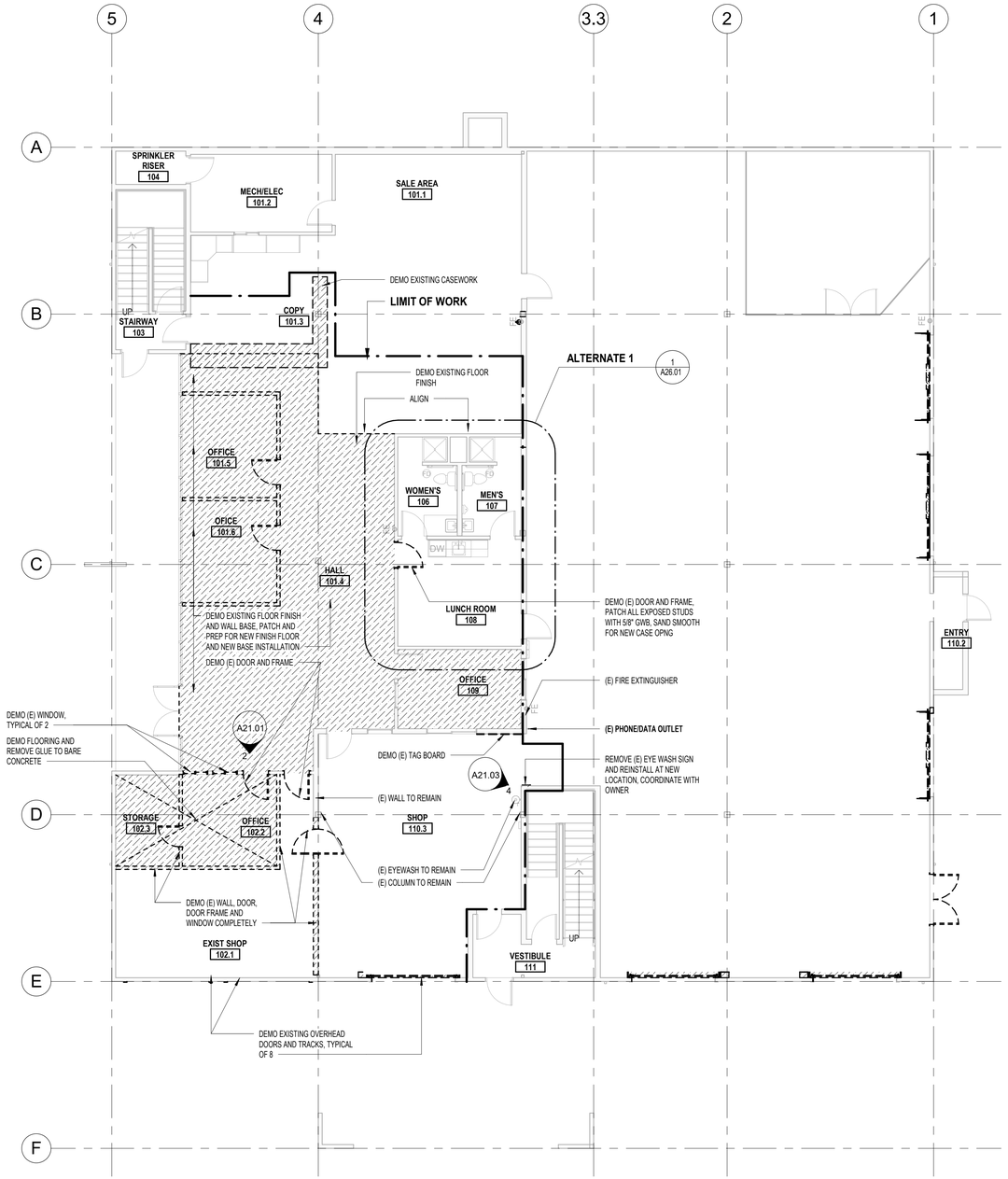
BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE

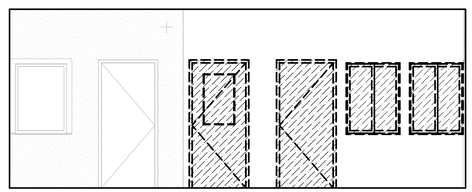
BLDG 1 - FIRE & LIFE SAFETY PLANS

SHEET # **A02.01**



N

1 BLDG 1 - LEVEL 1 DEMO PLAN
1/8" = 1'-0"



2 102.2 - OFFICE ELEVATION
1/4" = 1'-0"

GENERAL NOTES - DEMO PLAN

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO DEMOLITION WORK SHALL COMMENCE WITHOUT FIELD VERIFICATION BY THE CONTRACTOR
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REMOVE ALL MECHANICAL, ELECTRICAL AND MISCELLANEOUS EQUIPMENT AS REQUIRED TO COMPLETE THE WORK. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR DEMOLITION INFORMATION
3. THE CONTRACTOR SHALL FIELD LOCATE UNDERSLAB UTILITIES PRIOR TO SAW CUTTING AND/OR JACK HAMMERING AS REQUIRED TO CAREFULLY REMOVE EXISTING SLAB
4. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY STRUCTURAL BRACING AS REQUIRED DURING DEMOLITION AND CONSTRUCTION
5. ANY PORTION OF THE PROJECT TO REMAIN WHICH IS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY, SHALL BE REPAIRED OR REPLACED TO MATCH THE EXISTING CONDITION
6. THE CONTRACTOR SHALL COORDINATE AND ARRANGE FOR THE DISCONNECTION OF ALL UTILITIES AND EQUIPMENT WITH THE OWNER AND UTILITY COMPANIES. THE CONTRACTOR SHALL CAP OFF ALL UNUSED UTILITIES

LEGEND - DEMO PLAN

EXISTING CONSTRUCTION TO REMAIN

DEMO EXISTING WALL, DOOR AND/OR WINDOW PER DEMOLITION PLAN

DEMO EXISTING FLOOR PER DEMOLITION PLAN

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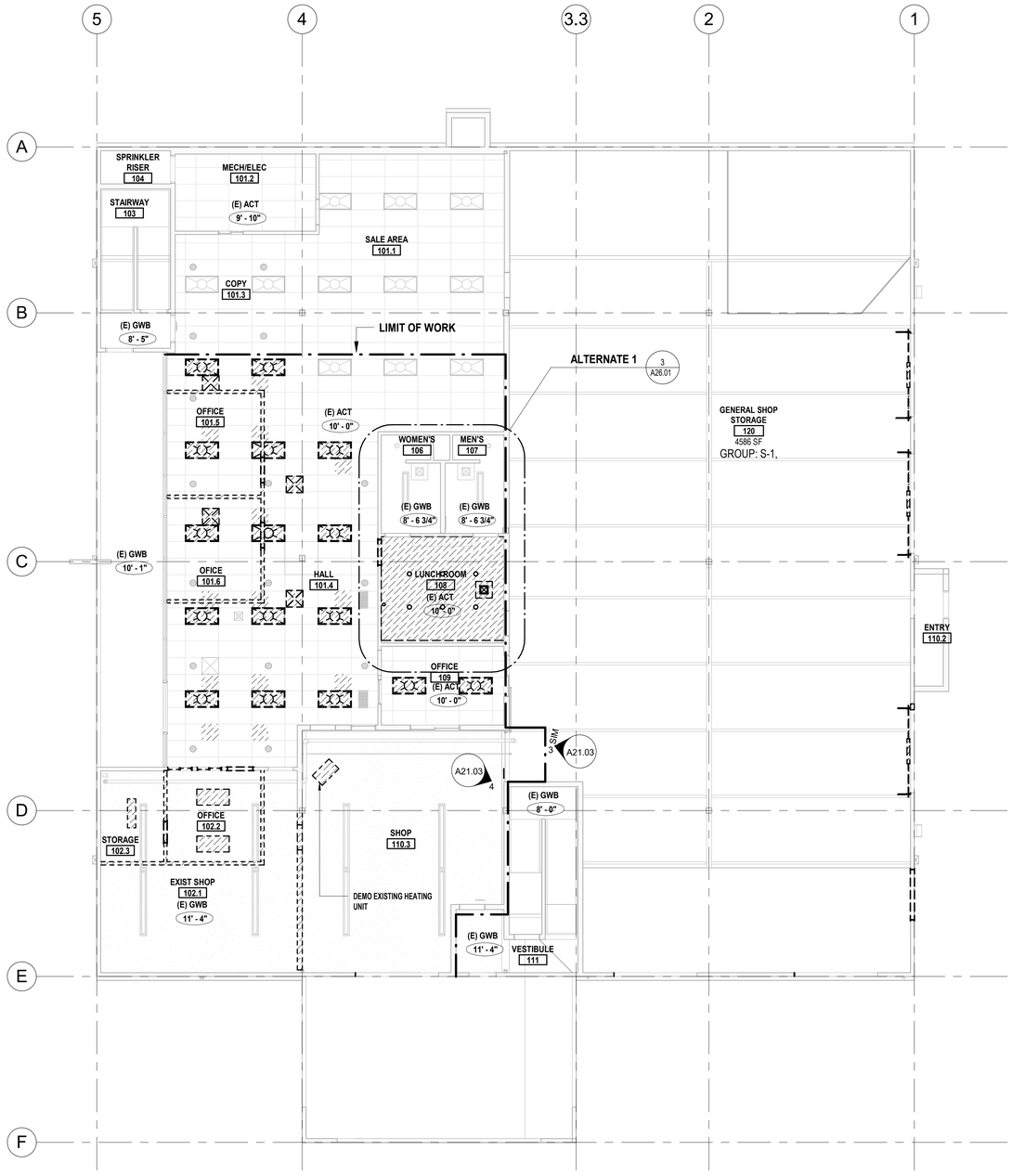
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ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE

BLDG 1 - LEVEL 1
DEMO PLAN

SHEET #
A21.01



N 1 BLDG 1 - LEVEL 1 RCP DEMO PLAN
1/8" = 1'-0"

GENERAL NOTES - RCP

- ARCHITECTURAL RCP PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DETAILED SCOPE OF SYSTEMS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CENTER ALL CEILING FIXTURES IN CEILING TILE, UNLESS NOTED OTHERWISE.

LEGEND - ALTERNATE #1 DEMO RCP

1/8" = 1'-0"

DEMO EXISTING ACOUSTICAL CEILING TILES

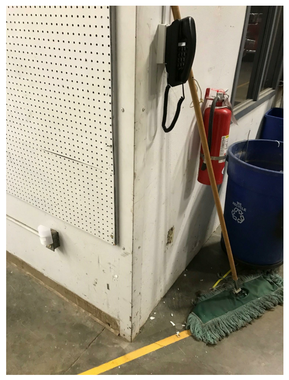
DEMO EXISTING LIGHTING FIXTURES, REFERENCE ELECTRICAL DRAWINGS FOR RELATED WORKS

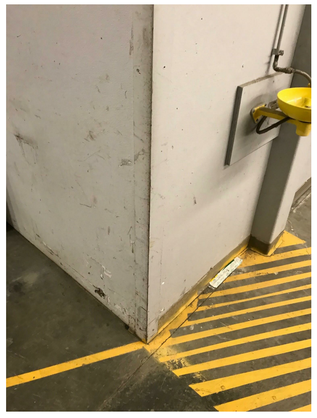
DEMO EXISTING MECHANICAL GRILLE, REFERENCE MECHANICAL DRAWINGS FOR RELATED WORKS



3 EXISTING 1-122 PICTURE
NTS







4 EXISTING 1-117 STORAGE PICTURE
1/8" = 1'-0"

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BLDG 1 - LEVEL 1
DEMO RCP

SHEET #
A21.03

GENERAL NOTES - FLOOR PLAN

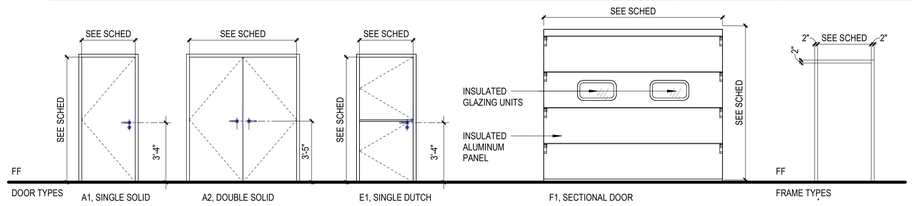
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2. DIMENSIONS SHOWN AS X'-X" ARE TO FINISH FACE OF WALLS
3. DIMENSIONS INDICATED AS "MIN" OR "CLEAR" ARE FROM NEAREST FINISH SURFACE INCLUDING TRIM
4. FOR WALL, FLOOR AND ROOF ASSEMBLIES, SEE DETAIL 3 / A21.11
5. PATCH ALL PENETRATIONS RELATED TO THE NEW SPRINKLER SYSTEM. FINISH TO MATCH ADJACENT CONSTRUCTION. SEE SPRINKLER SUBMITTAL FOR ASSOCIATED WORK
6. PROVIDE CONCEALED 2X WOOD BLOCKING FOR SURFACE-MOUNTED COMPONENTS ON WOOD-FRAMED WALLS

LEGEND - FLOOR PLAN

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION UP TO UNDERSIDE OF EXISTING CEILING TILES
- NEW WOOD FRAMING WALL EXTEND FROM TOP OF EXISTING WALL TO UNDERSIDE OF CEILING TILES ABOVE
- NEW CARPET
- NEW CERAMIC TILE

DOOR SCHEDULE BLDG 1

DOOR #	ROOM NUMBER	ROOM NAME	DOOR INFO TYPE	DOOR INFO MATERIAL	DOOR INFO FINISH	DOOR INFO GLAZING	DOOR INFO HEIGHT	DOOR INFO WIDTH	DOOR INFO THICKNESS	FRAME INFO TYPE	FRAME INFO MATERIAL	FRAME INFO FINISH	FIRE RATING	HARDWARE GROUP	POWER REQUIRED	COMMENTS
101A	101	HALL					7' - 0"	6' - 0"	1 3/4"							PROX CARD EXISTING PANIC HARDWARE
102A	102A	OFFICE	A1	WD	STAIN	NA	7' - 0"	3' - 0"	1 3/4"	1	HM	PT-2				
102B	102B	FACILITIES DIVISION OFFICE	E1	WD	STAIN	NA	7' - 0"	3' - 0"	1 3/4"	1	HM	PT-2				
103A	103	OFFICE	A1	WD	STAIN	NA	7' - 0"	3' - 0"	1 3/4"	1	HM	PT-2				
104A	101	HALL	A2	HM	P-2	NA	7' - 0"	6' - 0"	1 3/4"	1	HM	PT-2	REI 60	1	No	
117A	117	STORAGE	A1	HM	P-2	NA	7' - 0"	3' - 0"	1 3/4"	1	HM	PT-4	NA	2	No	
117B	117	STORAGE	F1				10' - 0"	10' - 0"	1 1/2"				NA			MATERIAL AND FINISH PER MFR
118A	118	VESTIBULE	A1	HM	P-2	NA	7' - 0"	3' - 0"	1 3/4"	1			NA			PROX CARD TO EXISTING DOOR
120A	120	GENERAL SHOP STORAGE	A1	HM	P-2	NA	7' - 0"	3' - 0"	1 3/4"	1	HM	PT-4	NA			
120B	120	GENERAL SHOP STORAGE	F1				10' - 0"	10' - 0"	1 1/2"				NA			MATERIAL AND FINISH PER MFR
120C	120	GENERAL SHOP STORAGE	F1				10' - 0"	10' - 0"	1 1/2"				NA			MATERIAL AND FINISH PER MFR
120D	120	GENERAL SHOP STORAGE	F1				10' - 0"	10' - 0"	3 1/4"				NA			MATERIAL AND FINISH PER MFR
120E	120	GENERAL SHOP STORAGE	F1				12' - 0"	12' - 0"	3 1/4"	1	HM	PT-2	NA			
120F	120	GENERAL SHOP STORAGE	F1				10' - 0"	10' - 0"	3 1/4"				NA			MATERIAL AND FINISH PER MFR



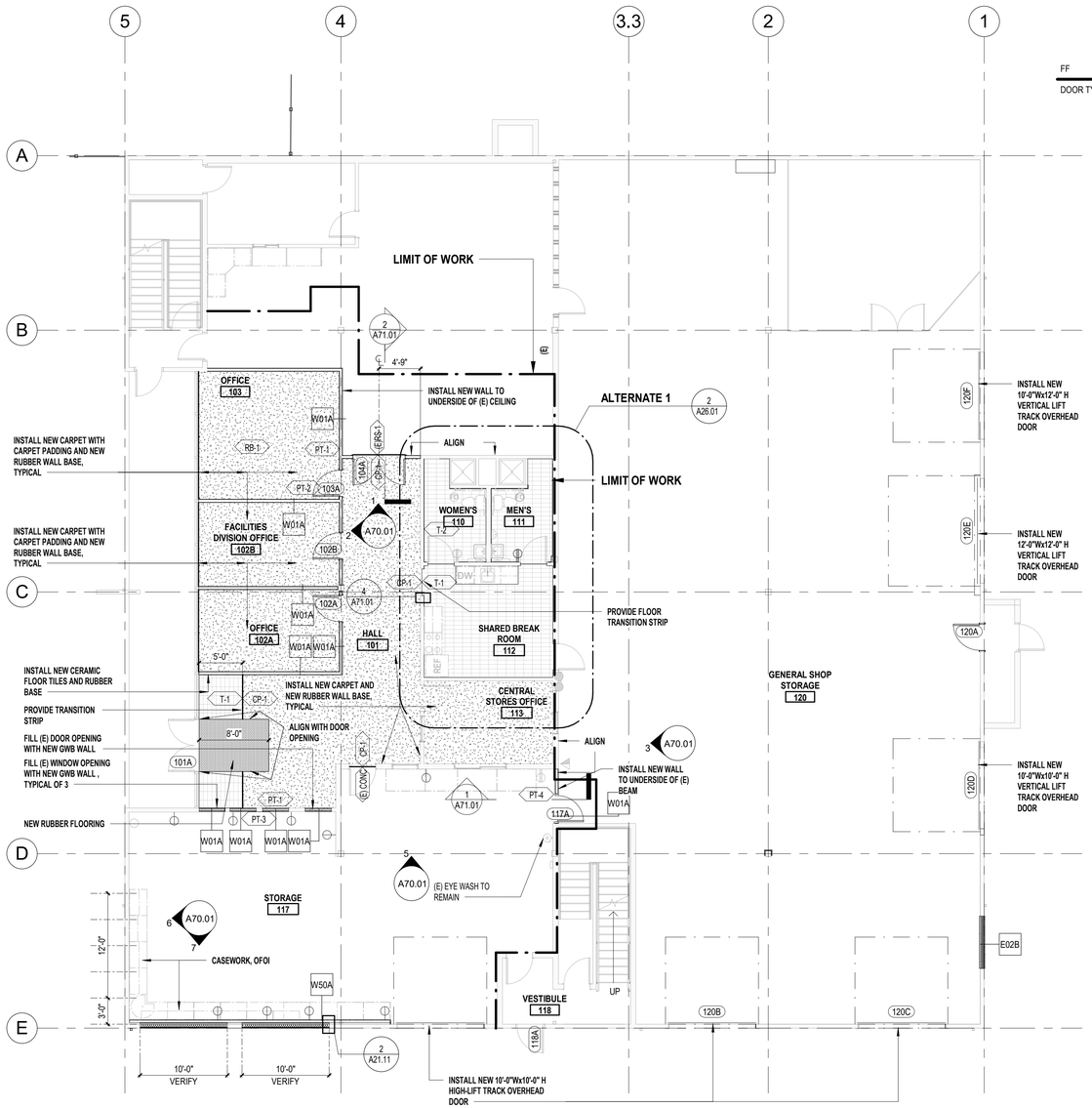
DOOR & FRAME TYPES

BUILDING 1 FINISH SCHEDULE

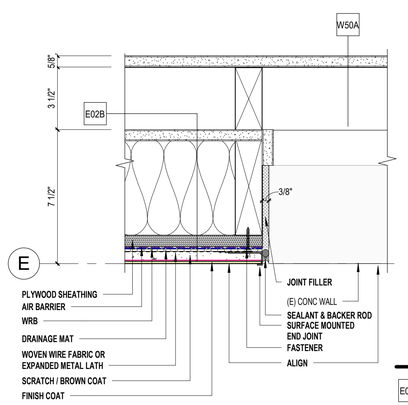
NUMBER	ROOM NAME	AREA	FINISH WALL	FINISH BASE	FINISH FLOOR	FINISH CEILING	COMMENTS
101	HALL	560 SF	PT-1	RB-1	CP-1	EXISTING ATC	
102A	OFFICE	151 SF	PT-1	RB-1	CP-1	EXISTING ATC	
102B	FACILITIES DIVISION OFFICE	155 SF	PT-1	RB-1	CP-1	EXISTING ATC	
103	OFFICE	235 SF	PT-1	RB-1	CP-1	EXISTING ATC	
110	WOMEN'S	79 SF	T-2	T-2	T-1	EXISTING GWB	ADD ALTERNATE #1
111	MEN'S	79 SF	T-2	T-2	T-1	EXISTING GWB	ADD ALTERNATE #1
112	SHARED BREAK ROOM	188 SF	PT-1	T-2	T-1	EXISTING ATC	ADD ALTERNATE #1
113	CENTRAL STORES OFFICE	140 SF	PT-1	RB-1	CP-1	EXISTING ATC	
117	STORAGE	1233 SF	PT-3	N/A	EXISTING/CONC-1	EXISTING GWB	
118	VESTIBULE	81 SF	N/A	N/A	EXISTING/CONC-1	-	
120	GENERAL SHOP STORAGE	4586 SF	N/A	N/A	EXISTING/CONC-1	-	

FINISH LEGEND

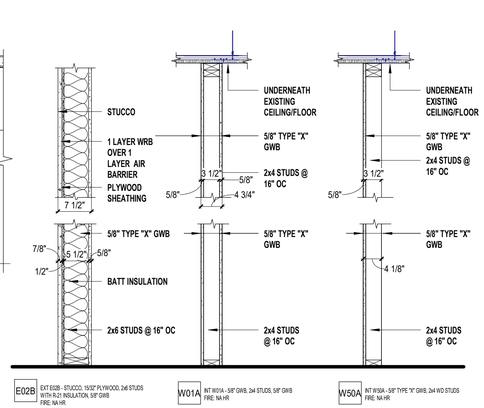
TAG	MATERIAL
WALL	
PT-1	INTERIOR PAINT TO MATCH EXISTING ADJACENT WALLS
PT-3	INTERIOR PAINT TO MATCH EXISTING ADJACENT WALLS
T-2	CERAMIC WALL TILE
FLOOR	
(E) CONC	EXISTING CONCRETE FLOORING
(E)RS-1	EXISTING RESILIENCE FLOORING
CP-1	CARPET
T-1	PORCELAIN FLOOR TILE
WALL BASE	
RB-1	RESILIENT WALL BASE
T-2	PORCELAIN FLOOR TILE BASE
DOOR AND FRAME	
PT-2	INTERIOR PAINT TO MATCH EXISTING DOOR AND FRAME IN OFFICE AREA
PT-4	INTERIOR PAINT TO MATCH EXISTING DOOR AND FRAME IN STORAGE AREA



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



2 ENLARGED PLAN DETAIL - CONTROL JOINT
3" = 1'-0"



3 WALL ASSEMBLY BLDG 1
3/4" = 1'-0"

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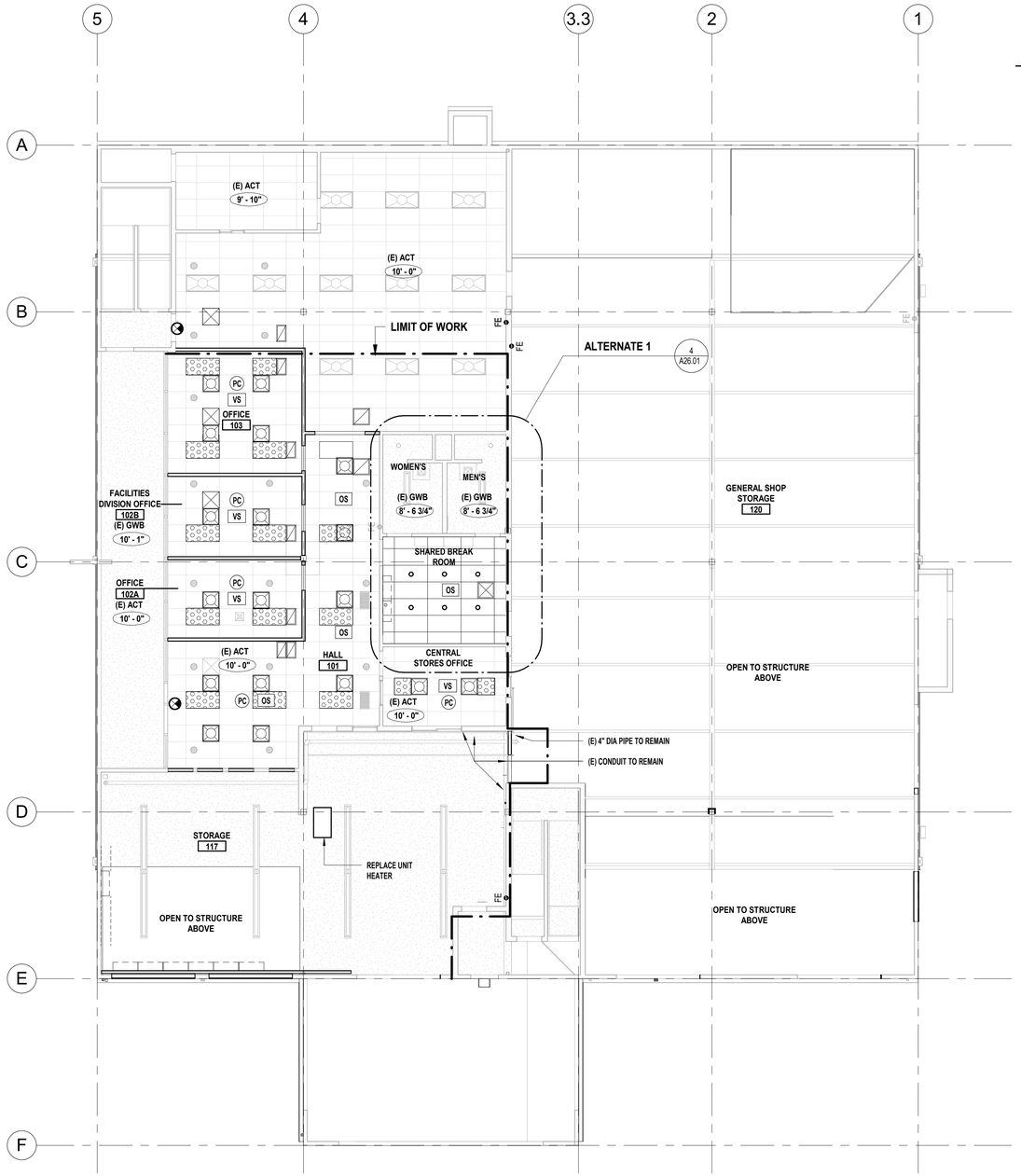
REVISION SCHEDULE

BLDG 1 - FLOOR PLANS

SHEET #
A21.11

GENERAL NOTES - RCP

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- CENTER ALL CEILING FIXTURES IN CEILING TILE, UNLESS NOTED OTHERWISE.



N 1 BLDG 1 - LEVEL 1 RCP
1/8" = 1'-0"

RCP LEGEND

- NEW WALL TO UNDERSIDE OF CEILING OR BEAM
- EXISTING GWB CEILING TO REMAIN
- REPLACE ACOUSTICAL CEILING TILE TO MATCH EXISTING
- ELECTRICAL UNIT HEATER
- SURFACE OR PENDANT MOUNT LIGHT
- EXISTING RETURN GRILLE
- EXISTING SUPPLY GRILLE
- RETURN GRILLE
- SUPPLY GRILLE
- EXISTING SPRINKLER HEAD
- PC — PHOTO CELL
- VS — VACANCY SENSOR
- OS — OCUPANCY SENSOR

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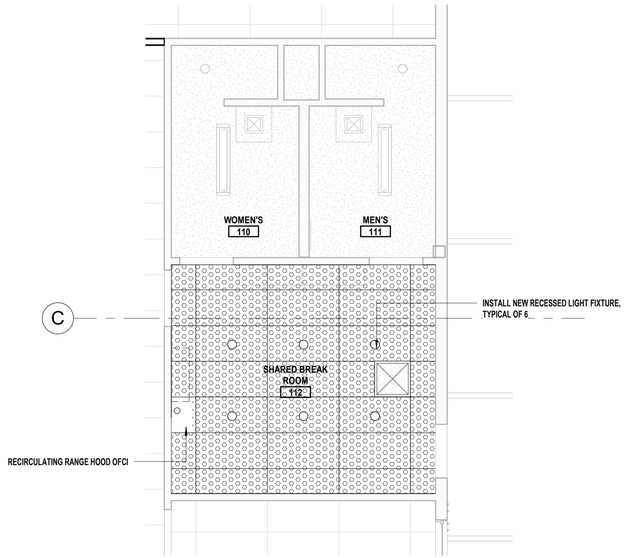
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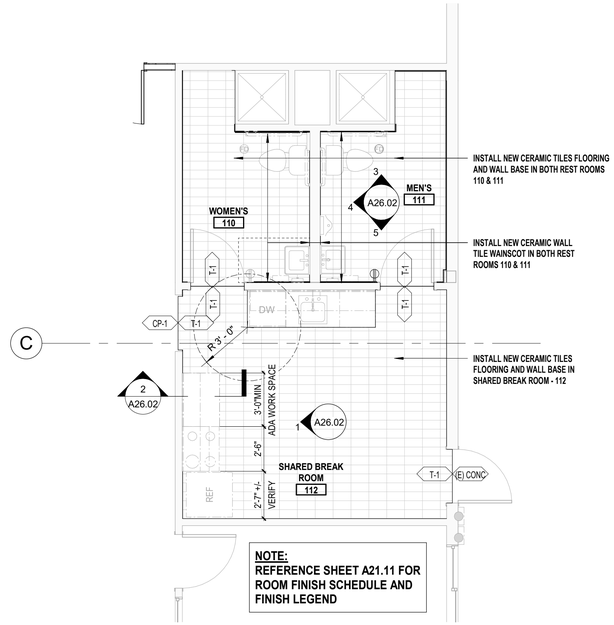
REVISION SCHEDULE

BLDG 1 - LEVEL 1 RCP

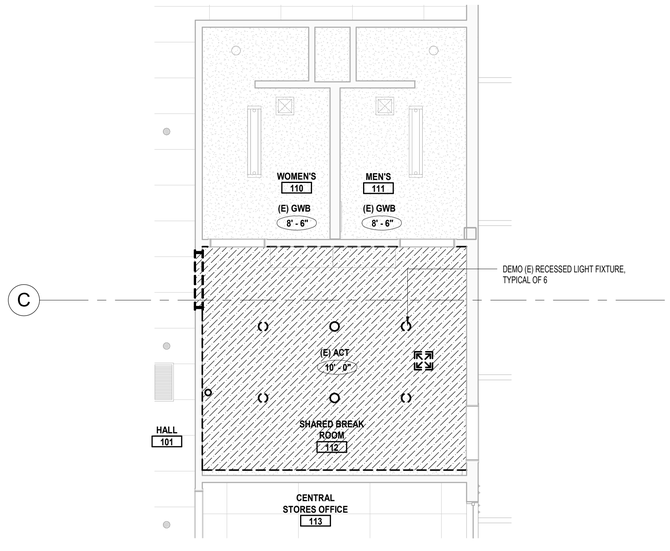
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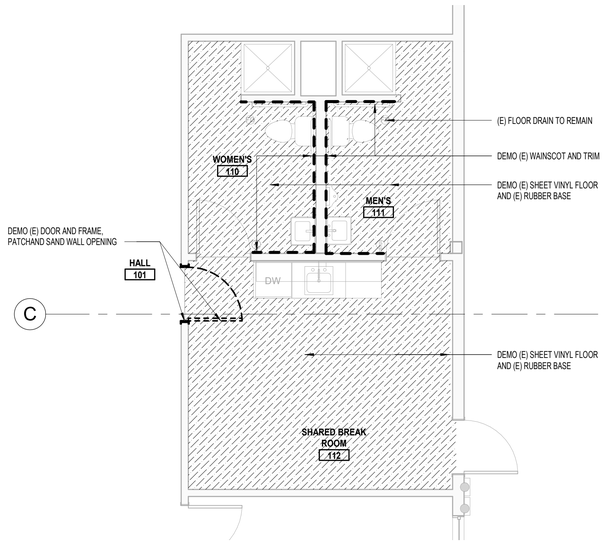
N 4 BLDG 1 - LEVEL 1 ALTERNATE #1 RCP PLAN
1/4" = 1'-0"



N 2 BLDG 1 - LEVEL 1 ALTERNATE #1 FLOOR PLAN
1/4" = 1'-0"



N 3 BLDG 1 - LEVEL 1 ALTERNATE #1 RCP DEMO PLAN
1/4" = 1'-0"



N 1 BLDG 1 - LEVEL 1 ALTERNATE #1 DEMO PLAN
1/4" = 1'-0"

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LEGEND - DEMO PLAN

EXISTING CONSTRUCTION TO REMAIN

DEMO EXISTING WALL, DOOR AND/OR WINDOW PER DEMOLITION PLAN

DEMO EXISTING FLOOR PER DEMOLITION PLAN

GENERAL NOTES - FLOOR PLAN

1. ALL DIMENSIONS ARE TO FACE OF STUDS AND/OR FACE OF CONCRETE WALLS UNLESS NOTED OTHERWISE
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3. DIMENSIONS INDICATED AS "MIN" OR "CLEAR" ARE FROM NEAREST FINISH SURFACE INCLUDING TRIM
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6. PROVIDE CONCEALED 2X WOOD BLOCKING FOR SURFACE-MOUNTED COMPONENTS ON WOOD-FRAMED WALLS

LEGEND - ALTERNATE #1 DEMO RCP

DEMO EXISTING ACOUSTICAL CEILING TILES

DEMO EXISTING LIGHTING FIXTURES, REFERENCE ELECTRICAL DRAWINGS FOR RELATED WORKS

DEMO EXISTING MECHANICAL GRILLE, REFERENCE MECHANICAL DRAWINGS FOR RELATED WORKS

RCP LEGEND

1/8" = 1'-0"

NEW WALL TO UNDERSIDE OF CEILING OR BEAM

EXISTING GWB CEILING TO REMAIN

REPLACE ACOUSTICAL CEILING TILE TO MATCH EXISTING

ELECTRICAL UNIT HEATER

SURFACE OR PENDANT MOUNT LIGHT

EXISTING RETURN GRILLE

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RETURN GRILLE

SUPPLY GRILLE

EXISTING SPRINKLER HEAD

PC PHOTO CELL

VS VACANCY SENSOR

OS OCUPANCY SENSOR

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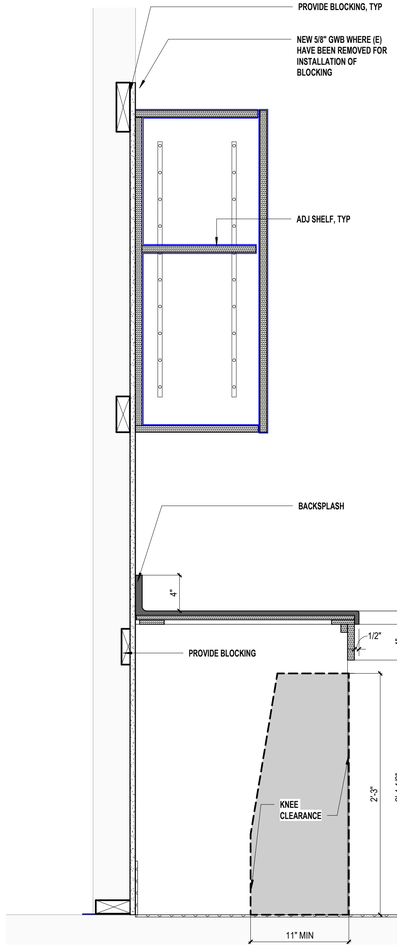
ALTERNATE #1 FLOOR PLANS

SHEET #
A26.01

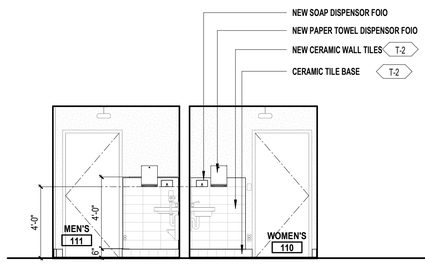
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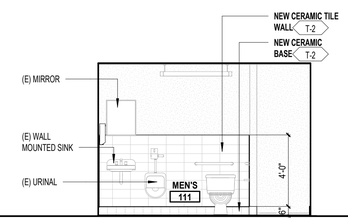
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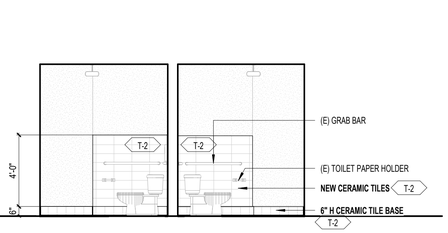
2 ADA WORK SURFACE SECTION
1 1/2" = 1'-0"



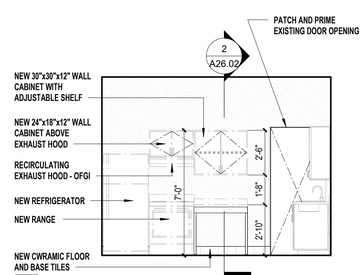
5 110 & 111 REST ROOMS ELEVATION - SOUTH
1/4" = 1'-0"



4 111 MEN'S REST ROOM ELEVATION - WEST
1/4" = 1'-0"



3 110 & 111 REST ROOMS ELEVATION - NORTH
1/4" = 1'-0"



1 112 SHARED BREAK ROOM ELEVATION -WEST
1/4" = 1'-0"

PROJECT # 2015137

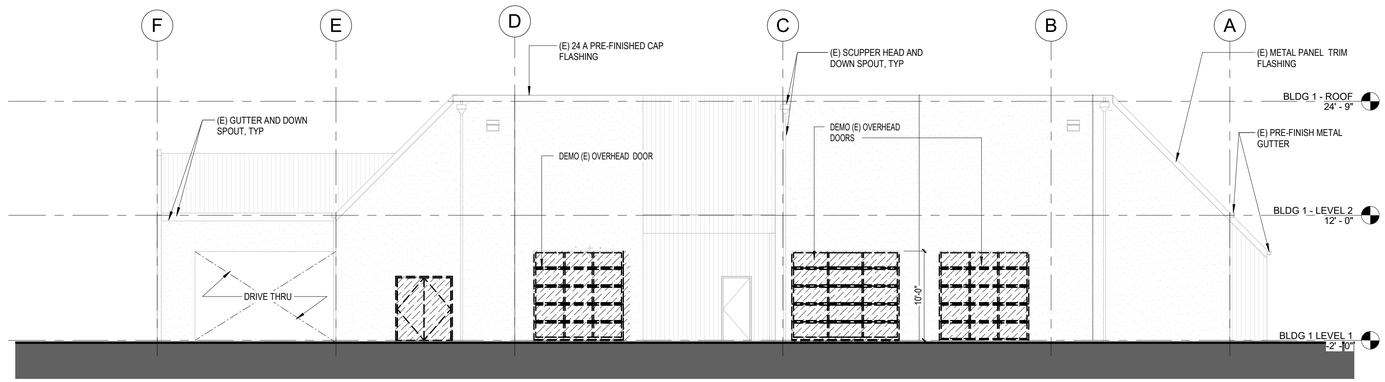
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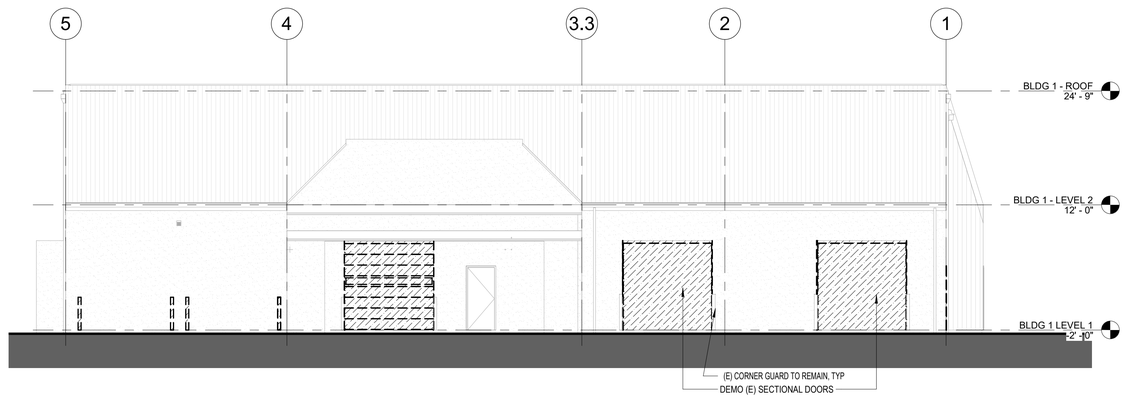
REVISION SCHEDULE

ALTERNATE 1 DETAILS

SHEET #
A26.02



1 BLDG 1 - DEMO EXTERIOR ELEVATION EAST
1/8" = 1'-0"



2 BLDG 1 - DEMO EXTERIOR ELEVATION SOUTH
1/8" = 1'-0"

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4794
REGISTERED ARCHITECT
DAVID A. FERGUS
STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 60
35100 PACIFIC HIGHWAY SOUTH,
FEDERALWAY, WA 98003

PROJECT # 2015137

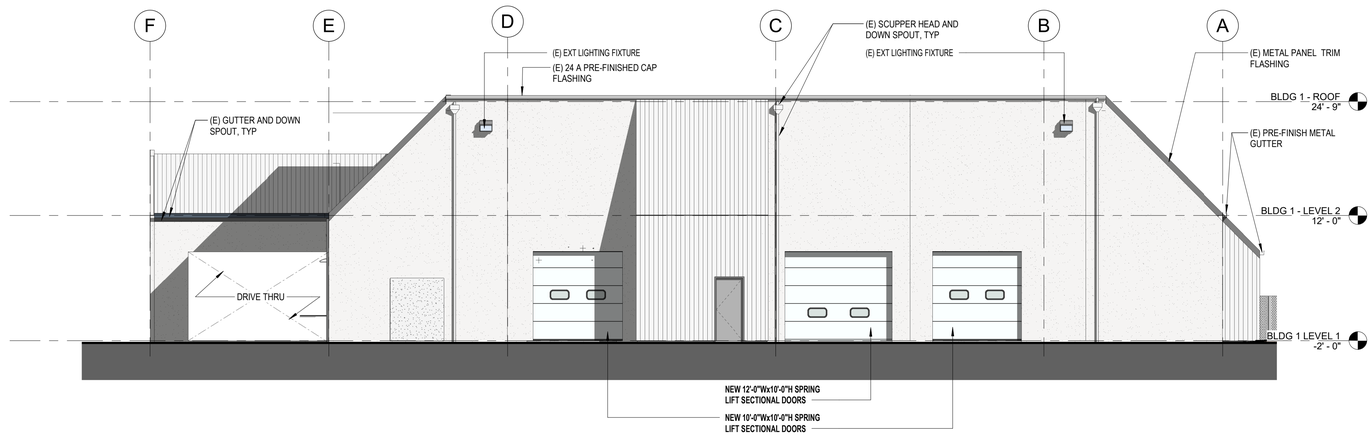
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ISSUE DATE AUGUST 7, 2020

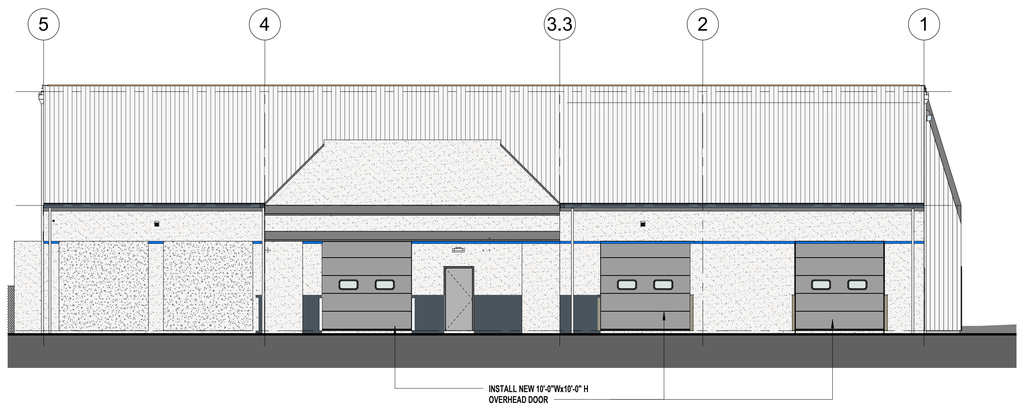
REVISION SCHEDULE

DEMOLITION ELEVATIONS

SHEET #
A30.01



1 BLDG 1 - EAST ELEVATION
1/8" = 1'-0"



2 BLDG 1 - SOUTH ELEVATION
1/8" = 1'-0"

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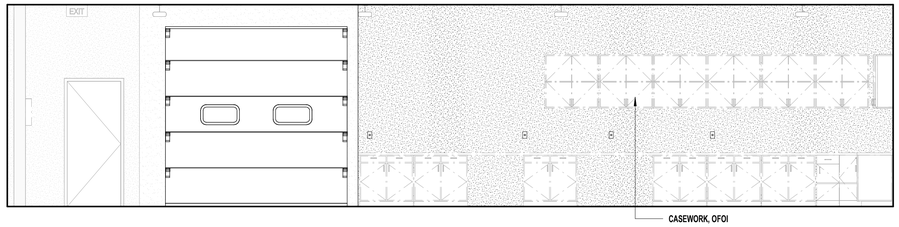
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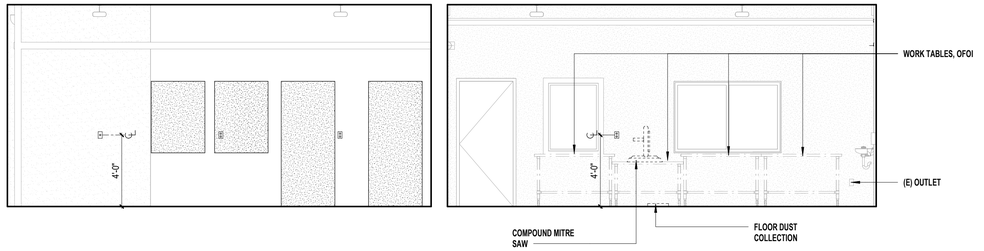
REVISION SCHEDULE

EXTERIOR ELEVATIONS

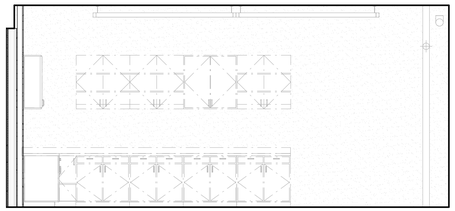
SHEET #
A31.01



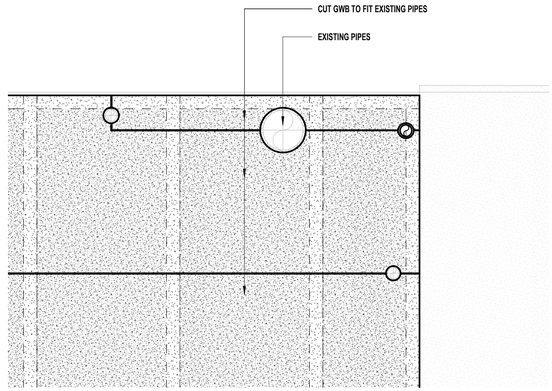
7 117 STORAGE ELEVATION- SOUTH WALL
1/4" = 1'-0"



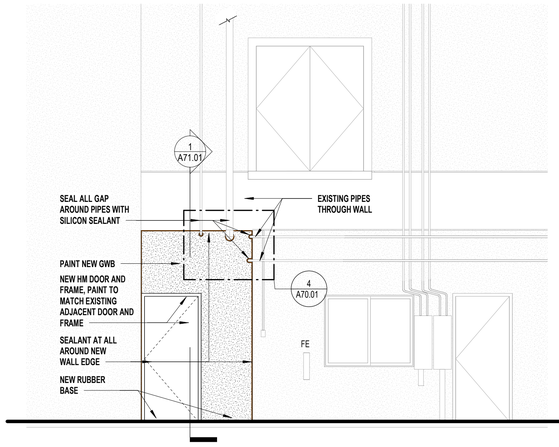
5 117 STORAGE ELEVATION - NORTH WALL
1/4" = 1'-0"



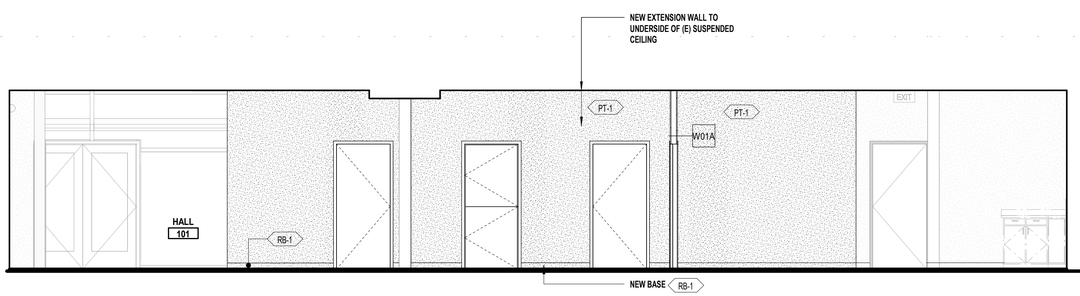
6 117 STORAGE ELEVATION - WEST WALL
1/4" = 1'-0"



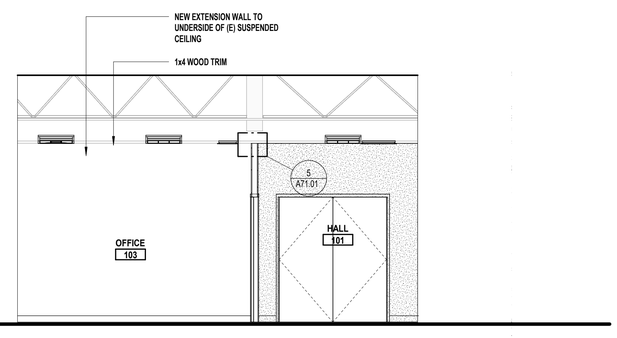
4 1 - 122 GENERAL SHOP AREA WALL CUT OUT OPTION
1 1/2" = 1'-0"



3 1 - 122 GENERAL SHOP AREA @ NEW WALL
1/4" = 1'-0"



2 OFFICE WALL EXTENSION ELEVATION
1/4" = 1'-0"



1 101 OPEN SPACE - NORTH ELEVATION
1/4" = 1'-0"

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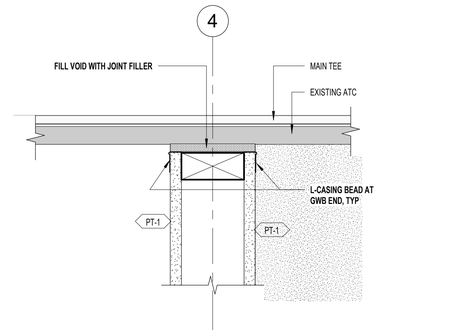
SOUTH KING FIRE & RESCUE
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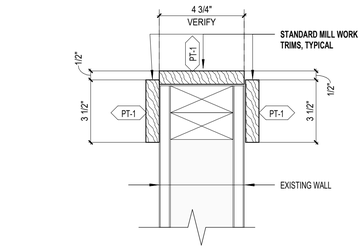
REVISION SCHEDULE

INTERIOR ELEVATIONS

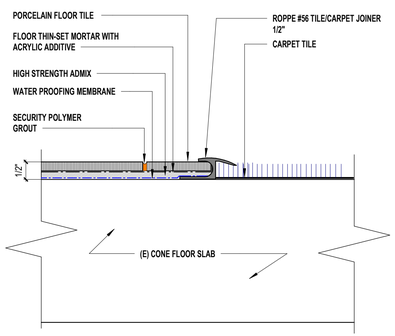
SHEET #
A70.01



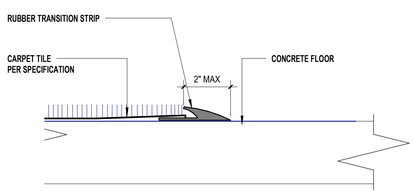
5 TYPICAL DETAIL AT NEW WALL-CEILING
3" = 1'-0"



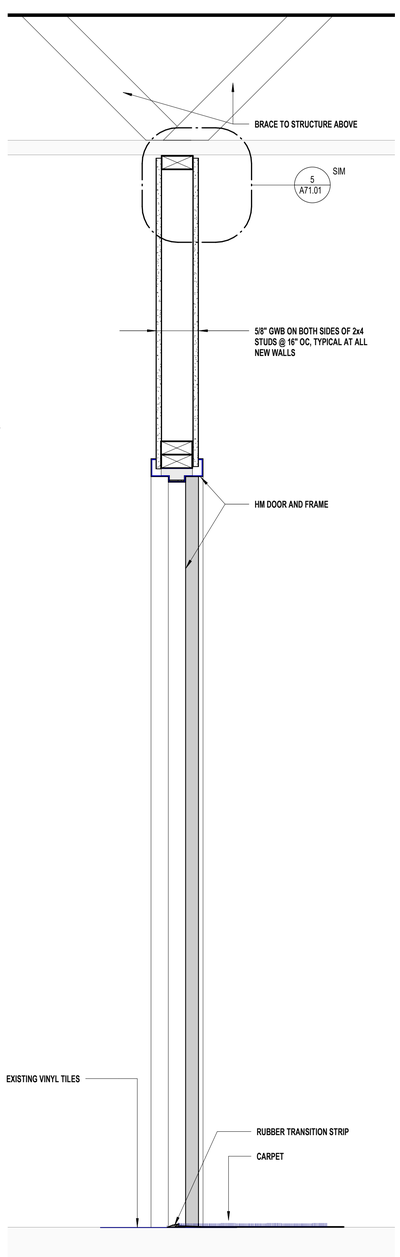
4 CASE OPENING JAMB DETAIL-HEAD SIMILAR
3" = 1'-0"



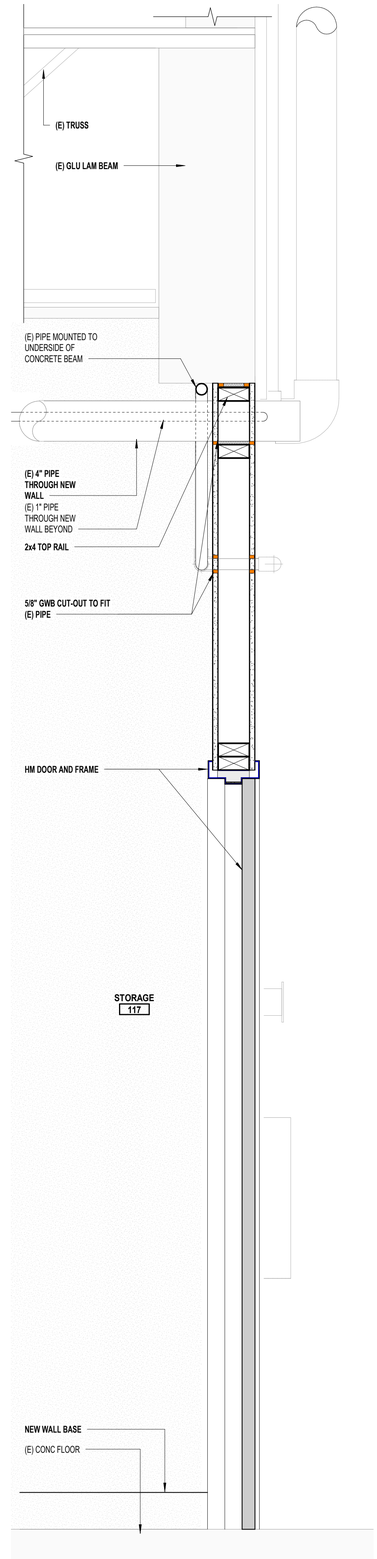
6 FLOOR TRANSITION - TILE / CARPET
6" = 1'-0"



3 FLOOR TRANSITION - CARPET / CONCRETE
6" = 1'-0"



2 SECTION - NEW DOOR AND FRAME
1 1/2" = 1'-0"



1 SECTION - NEW WALL
1 1/2" = 1'-0"

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PROJECT # 2015137

BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE

INTERIOR DETAILS

SHEET #
A71.01

MECHANICAL SYMBOLS LEGEND

HYDRONIC SYSTEM LABELS

- PIPE BREAK (CONTINUATION)
- HYDRONIC SUPPLY
- HYDRONIC RETURN
- DIRECTION OF FLOW
- CAP
- HEAT TRACED PIPING

HYDRONIC VALVES AND SPECIALTIES

- F.O. / F.C. — 2-WAY ELECTRIC CONTROL VALVE; FAIL OPEN / FAIL CLOSED
- 3-WAY ELECTRIC CONTROL VALVE
- 4-WAY CONTROL VALVE

DUCTWORK LABELS

- INTERNALLY LINED DUCT
- HIDDEN DUCT
- 16X12 — DUCT (1ST DIMENSION SIDE SHOWN, 2ND DIMENSION OTHER SIDE)
- REMOVE DUCT, PIPE OR MECH. EQUIPMENT
- FLEX DUCT
- RECTANGULAR SUPPLY DUCT OUT OF PAGE
- RECTANGULAR SUPPLY DUCT INTO PAGE
- SUPPLY DIFFUSER
- OUTSIDE AIR DIFFUSER
- RECTANGULAR RETURN DUCT OUT OF PAGE
- RECTANGULAR RETURN DUCT INTO PAGE
- OR — RETURN OR EXHAUST GRILLE
- TURNING VANES
- STRAIGHT TAP
- TAPERED FITTING
- BELL MOUTH FITTING
- CONICAL FITTING
- 45 DEG. ANGLE TAP
- ROUND ELBOW OUT OF PAGE
- ROUND ELBOW INTO PAGE
- ROUND DUCT OUT OF PAGE
- ROUND DUCT INTO PAGE
- ROUND DUCT BREAK (CONTINUATION)
- RECTANGULAR DUCT BREAK (CONTINUATION)
- FLEX CONNECTION

REFERENCE SYMBOLS

- M-1 — DETAIL NUMBER / SHEET
- FLAG NOTE
- 1 — REVISION TAG
- AHU-1 — MECHANICAL EQUIPMENT
- D / 0 — DIFFUSER/GRILLE TYPE / CFM
- 1 — SECTION NUMBER / SHEET NUMBER

LIFE SAFETY SYMBOLS

- CEILING RADIATION DAMPER
- OR — COMBINATION SMOKE/FIRE DAMPER
- HORIZONTAL SMOKE DAMPER
- FIRE DAMPER

CONTROL SYMBOLS

- VOLUME DAMPER
- M — MOTORIZED CONTROL DAMPER
- T — THERMOSTAT IN DUCT
- REMOTE OPERATED VOLUME DAMPER
- BACKDRAFT DAMPER
- PRESSURE INDEPENDENT VOLUME DAMPER (TROX VFL)
- PRESSURE INDEPENDENT VOLUME CONTROLLER (TROX VFC)
- PRESSURE INDEPENDENT VOLUME CONTROLLER W/ ACTUATOR (TROX VFC EØ / MØ)
- T — THERMOSTAT, MOUNT @ 4'-0" A.F.F.
- S — SENSOR
- CO / GEF-1 — CARBON MONOXIDE DETECTOR WITH FAN INDICATED
- CO2 — CARBON DIOXIDE DETECTOR

PIPING SYSTEM LABELS

- G — NATURAL GAS OR PROPANE
- BALL VALVE MANUAL LEVER
- BUTTERFLY VALVE MANUAL LEVER
- BUTTERFLY GEAR VALVE
- GLOBE VALVE MANUAL LEVER
- BALANCE VALVE (CIRCUIT SETTER)
- BALANCE VALVE (PRESSURE INDEPENDENT)
- PIPE TO DRAIN
- PRESSURE SAFETY VALVE
- AAV — AUTOMATIC AIR VENT
- MAV — MANUAL AIR VENT
- WYE STRAINER
- WYE STRAINER WITH VALVE AND HOSE END CAP
- HEAT TRACE PIPING
- HOSE END AND CAP
- EXPANSION LOOP

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	MEP	MECHANICAL, ELECTRICAL
ADA	AMERICANS WITH DISABILITIES ACT		& PLUMBING
ADJ	ADJUSTABLE	MEZZ	MEZZANINE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM OR MINUTE
AFG	ABOVE FINISHED GRADE	MISC	MISCELLANEOUS
ALT	ALTERNATE		
AP	ACCESS PANEL	N/A	NOT APPLICABLE
APPROX	APPROXIMATE	NC	NORMALLY CLOSED
ARCH	ARCHITECTURAL/ARCHITECT	NEG	NEGATIVE
AS	AIR SEPARATOR	NIC	NOT IN CONTRACT
AUX	AUXILIARY	NO	NORMALLY OPEN
		NOM	NOMINAL
BFF	BELOW FINISHED FLOOR	NPT	NATIONAL PIPE THREAD
BHP	BRAKE HORSE POWER	NTS	NOT TO SCALE
BLDG	BUILDING		
BOP	BOTTOM OF PIPE	OA	OUTSIDE AIR
BTU	BRITISH THERMAL UNIT	OBD	OPEN BLADE DAMPER
BTUH	BRITISH THERMAL UNIT PER HOUR	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CA	COMBUSTION AIR	OFCI	OWNER FURNISHED
CFH	CUBIC FEET PER HOUR		CONTRACTOR INSTALLED
CFM	CUBIC FEET PER MINUTE	OFOI	OWNER FURNISHED
CLG	CEILING		OWNER INSTALLED
CO	CARBON MONOXIDE		
CO2	CARBON DIOXIDE	ΔP	PRESSURE DIFFERENTIAL
COND	CONDENSATE	PERF	PERFORATED
CW	COLD WATER	Φ OR PH	PHASE
CX	CONNECT TO EXISTING	PLBG	PLUMBING
		POC	POINT OF CONNECTION
dB	DECIBEL	PRESS	PRESSURE
DB °F	DRY BULB TEMPERATURE	PRV	PRESSURE REDUCING VALVE
° OR DEG.	DEGREE	PSF	POUNDS PER SQUARE FOOT
Ø OR DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
D/L	DOOR LOUVER	PSIG	POUNDS PER INCH GAUGE
DN	DOWN	PTAC	PACKAGE TERMINAL
DWG(S)	DRAWING(S)		AIR CONDITIONER
DWV	DRAIN, WASTE, VENT		
		QTY	QUANTITY
EX	EXISTING/EXISTING TO REMAIN		
EA	EACH	REQD	REQUIRED
EA	EXHAUST AIR	RH	RELATIVE HUMIDITY
EAT	ENTERING AIR TEMPERATURE	RM	ROOM
ERU	ENERGY RECOVERY UNIT	RPBP	REDUCED PRESSURE
ESP	EXTERNAL STATIC PRESSURE		BACKFLOW PREVENTER
ET	EXPANSION TANK	RPM	REVOLUTIONS PER MINUTE
EXP	EXPANSION	RLX	RELOCATE EXISTING
		RTU	ROOF TOP UNIT
FC	FAIL CLOSED	RV	RELIEF VALVE
FF	FINISHED FLOOR	RX	REMOVE EXISTING
FLA	FULL LOAD AMPS		
FO	FAIL OPEN	SD	SMOKE DETECTOR
FP	FIRE PROTECTION	SF	SQUARE FOOT
FPM	FEET PER MINUT	S.L.	SOUND LINER
FPS	FEET PER SECOND	SP	STATIC PRESSURE
FT	FEET/FOOT	SPEC	SPECIFICATION
FTG	FOOTING	S/S, OR SS	STAINLESS STEEL
		STD	STANDARD
G	NATURAL GAS	SYM	SYMBOL
GA	GAUGE		
GAL	GALLON	T&P	TEMPERATURE AND PRESSURE
GALV	GALVANIZED		RELIEF VALVE
G.C.	GENERAL CONTRACTOR	TBD	TO BE DETERMINED
GSM	GALVANIZED SHEET METAL	TEMP	TEMPERATURE
		TOB	TOP OF BEAM
H	HEIGHT	TOC	TOP OF CONCRETE
HD	HEAD	TOD	TOP OF DECK
HP	HORSEPOWER	TOJ	TOP OF JOIST
HVAC	HEATING VENTILATING AND	TOS	TOP OF SLAB/TOP OF STEEL
	AIR CONDITIONING	T&P	TEMPERATURE & PRESSURE
HW	HOT WATER	TSP	TOTAL STATIC PRESSURE
HX	HEAT EXCHANGER	TYP	TYPICAL
HZ	HERTZ		
		UL	UNDERWRITERS LABORATORY
ID	INSIDE DIAMETER/DIMENSION	UNO	UNLESS NOTED OTHERWISE
IN	INCH/INCHES		
IN WC	INCHES WATER COLUMN	V	VOLT
		VAV	VARIABLE AIR VOLUME
KW	KILOWATT/KILOWATTS	VERT	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
LAT	LEAVING AIR TEMPERATURE	VIB	VALVE-IN-BOX
LBS	POUNDS	VOL	VOLUME
LF	LINEAL FOOT		
LRA	LOCKED ROTOR AMPS	W/	WITH
LTG	LIGHTING	W/IN	WITHIN
LWT	LEAVING WATER TEMPERATURE	W/O	WITHOUT
		WB °f	WET BULB TEMPERATURE
MBH	1000 BRITISH THERMAL	WC	WATER COLUMN
	UNIT PER HOUR	WPD	WATER PRESSURE DROP
MED	MEDIUM	WT	WEIGHT

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FEDERALWAY, WA 98003

PROJECT # 20004

BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE

HVAC GENERAL NOTES

1. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET, WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
2. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE AND LOCAL CODES AND ORDINANCES.
3. DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH THE LATEST IMC AND WITH CURRENT SMACNA STANDARDS.
4. JOINTS OF DUCT SYSTEM SHALL BE SEALED WITH GASKETS OR LISTED MASTIC TYPE DUCT SEALANT.
5. DUCTS SHALL BE INSULATED AS INDICATED ON PLANS TO MEET THE REQUIREMENTS OF THE CURRENT INTERNATIONAL ENERGY CODE AND SPECIFICATION.
6. FLEXIBLE DUCTS SHALL ONLY BE USED WHERE SHOWN AND SHALL NOT EXCEED 6 FT IN LENGTH UNLESS NOTED OTHERWISE.
7. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH THE CURRENT IBC.
8. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOOR SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
9. PROVIDE RETURN DUCT SMOKE DETECTOR(S) FOR AUTOMATIC SHUT DOWN OF ALL HEATING OR COOLING EQUIPMENT DELIVERING IN EXCESS OF 2000 CFM IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE. POWER WIRING AND INTERLOCK WIRING WITH THE BUILDING FIRE ALARM SYSTEM IS BY THE ELECTRICAL CONTRACTOR.
10. HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS. REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE HVAC CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
11. HVAC CONTRACTOR MUST COORDINATE WITH LIGHTING FIXTURES PRIOR TO DUCT AND PIPING INSTALLATION.

HVAC ENERGY CODE NOTES

1. SEE SCHEDULES FOR EQUIPMENT TYPE, CAPACITY AND EFFICIENCY. ALL EQUIPMENT SHALL MEET MINIMUM EFFICIENCY PER C403.2.3.
2. THERMOSTATIC CONTROLS IN THE SAME ZONE OR IN NEIGHBORING ZONES CONNECTED BY OPENINGS LARGER THAN 10% OF THE FLOOR AREA OF EITHER ZONE SHALL BE INTERLOCKED TO NOT ALLOW SIMULTANEOUS HEATING AND COOLING.
3. HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC HEAT SHALL INCLUDE MICROPROCESSOR CONTROLS THAT MINIMIZE ELECTRIC HEAT USAGE DURING START-UP, SET-UP, AND DEFROST CONDITIONS. CONTROLS SHALL ANTICIPATE NEED FOR HEAT AND USE COMPRESSION HEATING AS THE FIRST STAGE. CONTROLS SHALL INDICATE WHEN ELECTRIC HEAT IS BEING USED THROUGH VISUAL MEANS. ELECTRIC HEAT SHALL NOT OPERATE ABOVE 40 F OUTSIDE AIR TEMPERATURE.
4. THERMOSTATIC CONTROLS SHALL BE CONFIGURED WITH AT LEAST A 5F DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
5. THERMOSTATS (OTHER THAN GROUP R) SHALL BE 7-DAY PROGRAMMABLE WITH AUTOMATIC SETBACK CONTROLS SET DOWN TO 55F AND UP TO 85F. CONTROLS SHALL MAINTAIN PROGRAMMING FOR AT LEAST 10 HOURS DURING LOSS OF POWER. CONTROLS SHALL HAVE A MANUAL 2 HR OVERRIDE FOR TEMPORARY OPERATION. CONTROLS SHALL ADJUST THE DAILY START TIME FOR MORNING WARMUP PRIOR TO SCHEDULED OCCUPANCY.
6. PROVIDE AMCA CLASS 1 MOTORIZED CONTROL DAMPERS FOR OUTSIDE AIR INTAKES, EXHAUST OUTLETS, RELIEF OPENINGS, STAIRWAY AND SHAFT VENTS AND RETURN SIDE OF AIRSIDE ECONOMIZERS.
7. AIR-COOLED UNITARY DIRECT-EXPANSION UNITS WITH A COOLING CAPACITY OF 54 MBH OR GREATER THAT ARE EQUIPPED WITH AN ECONOMIZER SHALL INCLUDE FAULT DETECTION AND DIAGNOSTICS (FDD).
8. PROVIDE GAS-FIRED HEATING EQUIPMENT WITH MODULATING OR STAGED COMBUSTION CONTROL FOR ALL EQUIPMENT OVER 225 MBH.
9. THERMOSTATS (GROUP R) SHALL BE 5-2 PROGRAMMABLE SCHEDULE WITH AT LEAST 2 SETBACK PERIODS PER DAY.
10. PROVIDE DUCT, SHAFT AND PLENUM INSULATION PER C403.2.8 AND SPECIFICATION SECTION 23 07 00.
11. SEAL ALL TRANSVERSE AND LONGITUDINAL SEAMS, JOINTS AND CONNECTIONS OF ALL DUCTWORK WITH WELDS, GASKETS OR MASTICS.
12. PROVIDE PIPE INSULATION PER ENERGY CODE SECTION C403.2.9 AND SPECIFICATION SECTION 23 07 00.
13. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, SUNLIGHT, MOISTURE AND WIND. PROVIDE JACKET AND ALUMINUM COVERS. ADHESIVE TAPE IS NOT PERMITTED.
14. SINGLE FAN OR MULTIPLE FANS IN PARALLEL WITH COMBINED MOTOR NAMEPLATE OVER 5HP SHALL HAVE A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER AND SHALL BE SELECTED TO OPERATE WITHIN 15% OF THE MAXIMUM TOTAL EFFICIENCY OF THE FAN.
15. COOLING SYSTEMS 65 MBH AND GREATER SHALL HAVE TWO SPEED FAN CONTROL OR MODULATING FAN CONTROL.
16. FAN AND PUMP MOTORS 7.5 HP AND GREATER SHALL BE PROVIDED WITH A VFD.
17. ECONOMIZERS SHALL BE INTEGRATED WITH MECHANICAL COOLING AND SHALL BE CAPABLE OF PROVIDING PARTIAL ECONOMIZER COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED.
18. AIR ECONOMIZERS SHALL HAVE FIXED DRY-BULB HIGH-LIMIT SHUTOFF CONTROL NOT TO EXCEED 75 DEG. F.
19. ALL ELECTRIC MOTORS SHALL MEET THE EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4).
20. FAN MOTORS 1/12 HP UP TO 1 HP SHALL BE ECM.
21. PROVIDE A MEANS OF BALANCING EVERY AIR INLET AND OUTLET AND EVERY AIR OR WATER TERMINAL DEVICE.
22. ALL PIPE AND DUCT INSULATION SHALL BE LABELLED WITH ITS THICKNESS AND INSULATING VALUE (R OR K).

DIFFUSER AND GRILLE SCHEDULE

ITEM	MAKE	MODEL	DESCRIPTION	SIZE	MARK
SUPPLY DIFFUSER	TITUS	MCD	SQUARE FACE/NECK, SURFACE MOUNT FRAME SIZE OR 24"X24" LAY-IN. SIDE INLET PLENUM PER PLANS. 4 ADJ. CORES, STEEL, WHITE ENAMEL	6"X6"	D-1
				8"X8"	D-2
				10"X10"	D-3
RETURN GRILLE	TITUS	50F	1/2" EGG CRATE, ALUM., WHITE ENAMEL	12"X24"	G-1
				24"X24"	G-2

NOTES:
1. CEILING UNIT FRAME SHALL BE COMPATIBLE WITH CEILINGS; FLAT FRAME SURFACE MOUNT (TITUS BORDER TYPE 1) FOR DRYWALL CEILINGS AND WITH LAY-IN PANEL FOR EXPOSED GRID CEILINGS (TITUS BORDER TYPE 3). SEE ARCHITECTURAL PLANS FOR CEILING TYPES.
2. BEVELED DROP FACE DIFFUSERS (TITUS BORDER TYPE 6) ARE NOT ACCEPTABLE.
3. SIZE INDICATES DUCT COLLAR.

UNIT HEATER SCHEDULE

MARK	MAKE	MODEL	CFM	GAS HEATING			ELECTRICAL			WEIGHT	NOTES:
				INPUT MBH	OUTPUT MBH	EFF	AMP	HP	VOLT/PH		
UH-1	REZNOR	F50	650	50	40	80%	1.3	1/35	115 / 1	100	ALL

NOTES:
1. LOW VOLTAGE 7-DAY PROGRAMMABLE THERMOSTAT
2. HANGING BRACKET
3. 24 V CONTROL TRANSFORMER

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FACILITY IMPROVEMENTS
FIRE STATION 60
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PROJECT # 20004

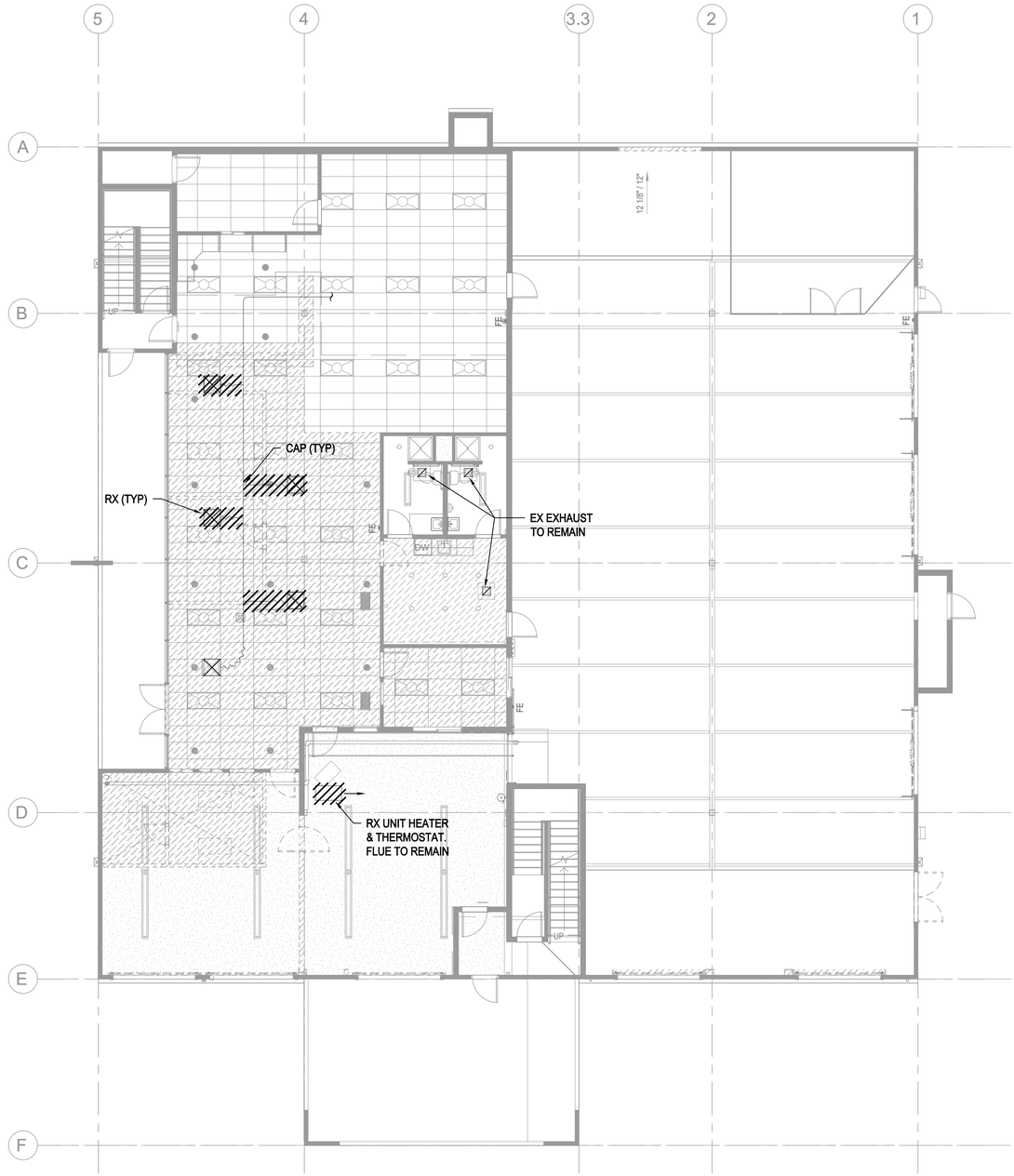
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NOTES & SCHEDULES

SHEET #
M11.02



BLDG 1 - LEVEL 1 DEMO PLAN

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

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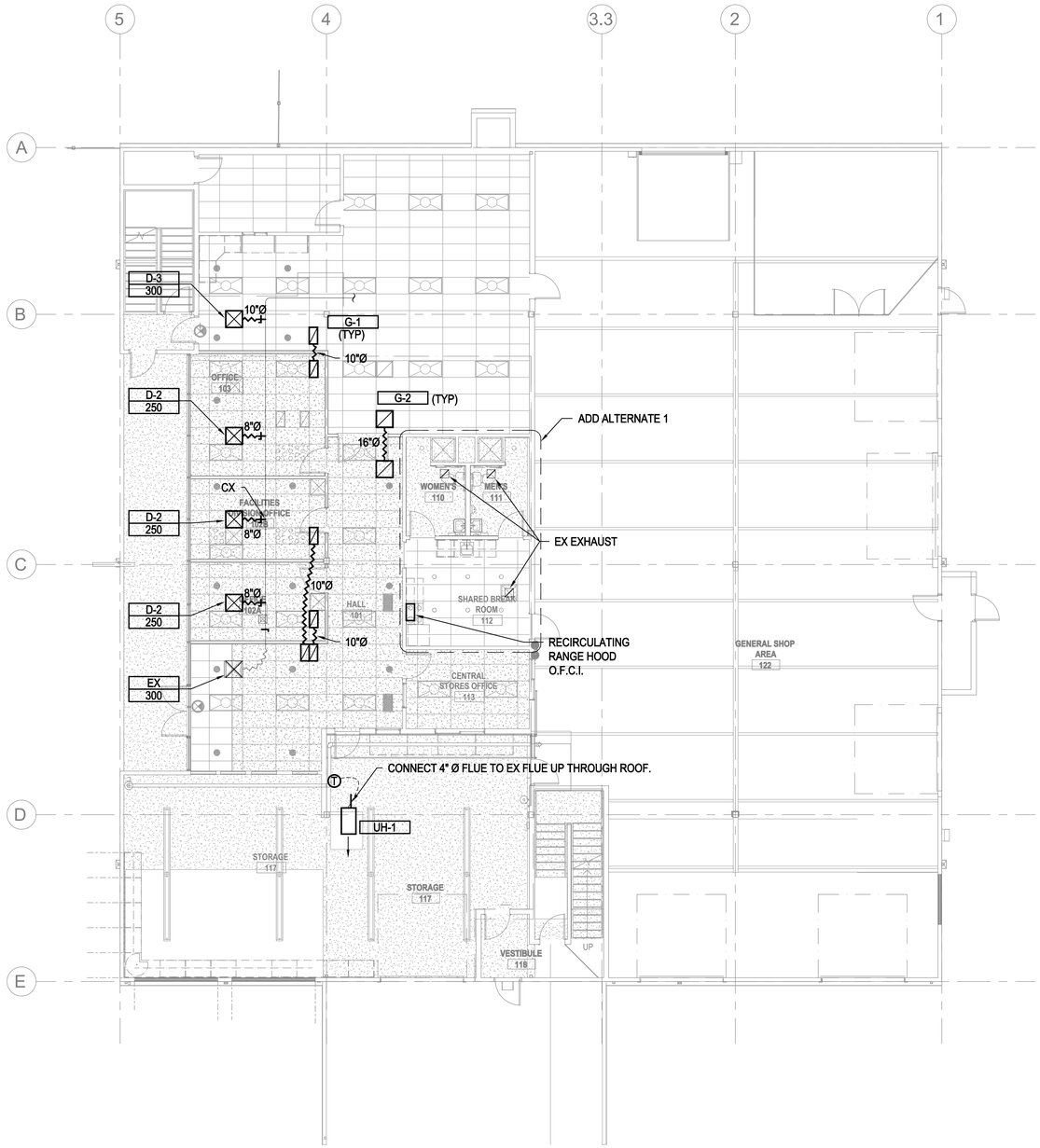
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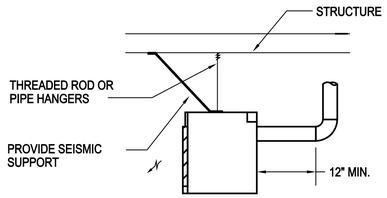
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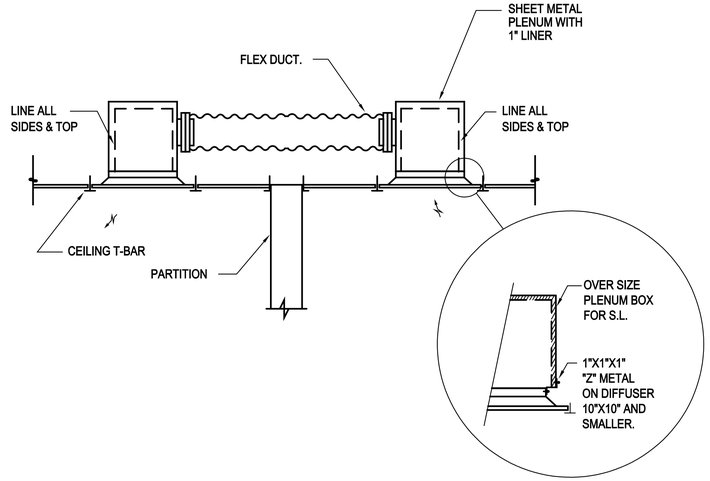
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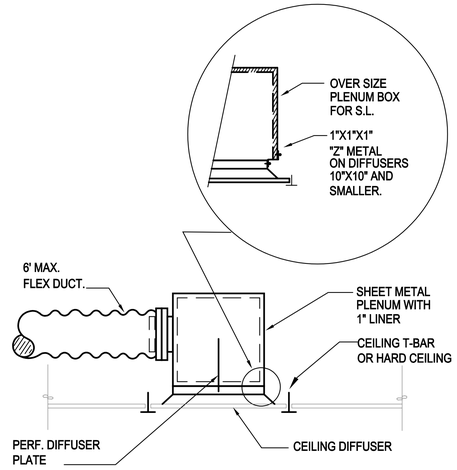
M21.11



3 M23.01 **UNIT HEATER DETAIL**
N.T.S.



2 M23.01 **TRANSFER GRILLE ASSEMBLY**
N.T.S.



NOTES:
1. SEE ARCHITECTURAL PLANS FOR CEILING TYPES.
2. SUPPLY SHOWN, DETAIL WITHOUT PERF PLATE IS TYPICAL FOR CEILING RETURN OR EXHAUST GRILLE INSTALLATION.

1 M23.01 **CEILING INSTALLATION TYPICAL DIFFUSER DETAIL**
Scale: NONE

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PLUMBING SYMBOLS LEGEND

LINETYPE LEGEND

- EXISTING
- NEW WORK DARK/HEAVY

PIPING SYSTEM LABELS

- CW — COLD WATER
- HW — HOT WATER
- (140) — HOT WATER (TEMPERATURE)
- HWC — HOT WATER CIRCULATING
- SD — STORM DRAIN
- PW — PUMPED WASTE
- WASTE (BURIED)
- W — WASTE (ABOVE GRADE)
- GW — GREASE WASTE
- V — VENT
- RL — RAINLEADER
- OD — OVERFLOW DRAIN
- NPW — NON-POTABLE COLD WATER
- G OR P — NATURAL GAS OR PROPANE
- F — FIRE SERVICE
- DIRECTION OF FLOW
- CA — COMPRESSED AIR
- DI — DIONIZED WATER
- V — VACUUM
- C — CONDENSATE
- PC — PUMPED CONDENSATE
- X" — SLOPE SYMBOL (X' PER FOOT)

PIPE FITTINGS

- PIPE DOWN
- PIPE UP
- TEE UP
- TEE DOWN
- UNION
- PIPE ANCHOR POINT
- PIPE GUIDE
- FLANGE
- CAP

DRAINS AND CLEANOUTS

- FLOOR SINK
- FLOOR DRAIN
- HIDDEN FLOOR DRAIN
- ROOF DRAIN
- OVERFLOW DRAIN
- FLOOR CLEANOUT
- GRADE CLEANOUT
- TRENCH DRAIN
- WALL CLEANOUT
- UP TO CLEANOUT
- FUNNEL DRAIN
- STANDPIPE FUNNEL DRAIN

PIPE VALVES AND SPECIALTIES

- P-1 — PLUMBING EQUIPMENT
- X — MEDICAL TAG
- M-1 — DETAIL NUMBER / SHEET
- FLAG NOTE
- 1 — REVISION TAG
- 1 / P-1 — PLUMBING RISER NO. / SHEET
- 1 — SECTION NUMBER / SHEET NUMBER

PIPE VALVES AND SPECIALTIES

- GATE VALVE
- GLOBE VALVE
- NON RISING STEM VALVE
- RISING STEM GATE VALVE
- BALANCING VALVE (CIRCUIT SETTER)
- AUTOFLOW VALVE
- CHECK VALVE
- BALL VALVE
- PRESSURE REDUCING VALVE
- SOLENOID VALVE
- PRESSURE GAUGE
- THERMOMETER
- STRAINER
- SAFETY VALVE
- PIPING FLEXIBLE CONNECTIONS
- BUTTERFLY VALVE
- CAP OR
- HOSE BIBB
- DOUBLE CHECK VALVE
- RPBA
- TRIPLE DUTY VALVE
- BALL VALVE MANUAL LEVER
- GLOBE VALVE MANUAL LEVER
- BALANCE VALVE (PRESSURE INDEPENDENT)
- PUMP
- M — METER
- M — METER

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL/ARCHITECT
AS	AIR SEPARATOR
AUX	AUXILIARY
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COND	CONDENSATE
CW	COLD WATER
CX	CONNECT TO EXISTING
dB	DECIBEL
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCV	DOUBLE DETECTOR CHECK VALVE
DDCVA	DOUBLE DETECTOR CHECK VAVLE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER RECIRCULATION
Ø OR DIA	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
DWV	DRAIN, WASTE, VENT
EA	EACH
EEW	EMERGENCY EYEWASH
EFF	EFFICIENCY
ELEV	ELEVATION
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EX	EXISTING/EXISTING TO REMAIN
EXP	EXPANSION
FC	FAIL CLOSED
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FM	FORCE MAIN
FO	FAIL OPEN
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FSZV	FIRE SPRINKLER ZONE VALVE ASSEMBLY
FT	FEET/FOOT
FTG	FOOTING
FV	FLUSH VALVE
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
G.C.	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARAGE DRAIN
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
H	HEIGHT
HB	HOSE BIBB
HBVB	HOSE BIBB VACUUM BREAKER
HD	HEAD
HP	HORSEPOWER
HS	HAND SINK
HW	HOT WATER
HX	HEAT EXCHANGER
IE	INVERT ELEVATION
IN	INCH/INCHES
KW	KILOWATT/KILOWATTS
LAV	LAVATORY
LB	LAUNDRY BOX
LBS	POUNDS
LF	LINEAL FOOT
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MED	MEDIUM
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NPC	NON-POTABLE COLD WATER
NPCW	NON POTABLE COLD WATER
NPH	NON-POTABLE HOT WATER
NPHR	NON-POTABLE HOT WATER RETURN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMTER/OVERLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAINWATER LEADER
ΔP	PRESSURE DIFFERENTIAL
PD	PLANTER DRAIN; PRESSURE DROP
PERF	PERFORATED
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER INCH GAUGE
QTY	QUANTITY
RD	ROOF DRAIN
REQD	REQUIRED
RL	RAIN WATER LEADER
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RLX	RELOCATE EXISTING
RV	RELIEF VALVE
RX	REMOVE EXISTING
S	SINK
S	STORM
SCFM	STANDARD CUBIC FEET PER MINUT
SD	STORM DRAIN
SF	SQUARE FOOT
SFU	SUPPLY FIXTURE UNIT
SH	SHOWER
S.O.V.	SHUTOFF VALVE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
SYM	SYMBOL
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOS	TOP OF SLAB/TOP OF STEEL
TP	TRAP PRIMER
T&P	TEMPERATURE & PRESSURE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT(S)
V	VOLT
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE-IN-BOX
VTR	VENT THROUGH ROOF
W	WASTE/WATER
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WPD	WATER PRESSURE DROP
WT	WEIGHT
YCO	YARD CLEANOUT

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ENERGY CODE NOTES

1. SEE SCHEDULE FOR WATER HEATER EQUIPMENT TYPE, CAPACITY AND EFFICIENCY. MINIMUM EFFICIENCY SHALL MEET TABLE C404.2
2. PUBLIC LAVATORIES SHALL BE EQUIPPED WITH AN ASSE 1070 MIXING VALVE SET TO DELIVERY 110 F HOT WATER.
3. NONCIRCULATING HOT WATER SYSTEMS WITHOUT AN INTEGRAL HEAT TRAP SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING.
4. ELECTRIC WATER HEATERS IN UNCONDITIONED SPACES OR ON CONCRETE FLOORS SHALL BE PLACED ON INCOMPRESSIBLE R-10 INSULATION.
5. PROVIDE PIPE INSULATION PER ENERGY CODE SECTION C403.2.9 AND SPECIFICATION SECTION 22 07 00.
6. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, SUNLIGHT, MOISTURE AND WIND. PROVIDE JACKET AND ALUMINUM COVERS. ADHESIVE TAPE IS NOT PERMITTED.
7. ALL PIPE AND WRAP INSULATION SHALL BE LABELED WITH ITS THICKNESS AND INSULATING VALUE (R OR K).
8. THE MAXIMUM ALLOWABLE PIPING LENGTH FROM THE NEAREST SOURCE OF HOT WATER TO THE TERMINATION OF THE FIXTURE SUPPLY SHALL COMPLY WITH C404.3
9. CIRCULATING HOT WATER PUMPS OR HEAT TRACE SHALL BE EQUIPPED WITH AUTOMATIC TIMERS.

PLUMBING NOTES

1. PLUMBING FIXTURES SHALL BE DESIGNED OR EQUIPPED TO MEET FOLLOWING MAXIMUM WATER USE EFFICIENCY STANDARDS:
   A. WATER CLOSETS (TANK STYLE OR FLUSH VALVE). 1.28 GPF
   B. SHOWER HEADS 1.5 GPM
   C. RESIDENTIAL LAVATORY FAUCETS. 1.5 GPM
   D. PUBLIC LAVATORY FAUCETS. 0.5 GPM
   E. KITCHEN SINK FAUCETS 1.5 GPM
   SINK AND LAVATORY DRAINS SHALL BE CHROME PLATED 17 GA. BRASS TUBING BY ENGINEERED BRASS, DEARBORN BRASS OR BRASSCRAFT. PROVIDE INSULATED P-TRAP AND SUPPLY COVERS (TRUEBRO OR EQUAL) AT ALL EXPOSED P-TRAPS AND SUPPLIES PER A.D.A. STANDARDS.
2. PLUMBING FIXTURE MOUNTING SHALL COMPLY WITH CONTRACT DOCUMENTS, ADA, AND WASHINGTON STATE ACCESSIBILITY CODE.
3. INSTALL WATER HAMMER ARRESTORS ON HOT & COLD WATER PIPING OF EACH FIXTURE GROUP AND AT ALL FIXTURES W/QUICK ACTING VALVES. UNITS SHALL BE ZURN "SHOKTROLL" OR EQUAL. SELECT UNIT SIZE AND LOCATION PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORD WITH PDI STANDARD WH-201. PROVIDE ACCESS PANELS AT ARRESTORS ABOVE GWB CEILINGS. ALL ACCESS PANELS AND DOORS SHALL BE ELMDOR FAB. STEEL SLK SERIES OR EQUAL WITH 14 GAUGE DOOR AND FRAME. PROVIDE WITH CYLINDER LOCK, CONTINUOUS PIANO HINGE AND PRIME COATED READY FOR PAINTING.
4. COLD WATER AND HOT WATER PIPING SHALL BE INSULATED AND ROUTED FULL SIZE WITH APPROPRIATE SIZE REDUCTION AT POINT OF CONNECTION TO FIXTURE. 1/2" WATER LINE LIMITED TO 10'-0" DISTANCE FROM FIXTURE. "DEAD-LEGS" OR "FUTURE" STUBS ON ACTIVE POTABLE WATER LINES SHALL BE LIMITED TO 4" TO PREVENT STAGNANT WATER CONDITIONS.
5. INSTALL WATER PIPING ON WARM SIDE OF BUILDING INSULATION. SEE SPEC. FOR INSULATION SYSTEMS. SEE DWGS. FOR ELEC. HEAT TRACE REQUIREMENTS. SEE PLUMBING DETAILS FOR PIPE HANGER STYLE. SEE SPEC. FOR HANGER SPACING.
6. WHEN CONNECTING TO EXISTING BURIED WASTE PIPING VERIFY PROPER FLOW CONDITIONS BEFORE COVERING. BURIED WASTE & VENT PIPING SHALL BE MIN. 2" DIA. & SLOPED 1/4"/FT., UNLESS OTHERWISE NOTED. PVC OR ABS PIPING SHALL BE USED ONLY IF APPROVED BY ADMINISTRATIVE AUTHORITY, SEE SPECIFICATIONS FOR FURTHER INFO.
7. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS EXCEPT IN SHOWER STALLS OR OTHERWISE NOTED ON DWGS. CONTRACTOR SHALL INSTALL ACCESS PANELS WHERE PRIMERS ARE CONCEALED IN WALLS.
8. COORDINATE VENT THROUGH ROOF (VTR) LOCATIONS WITH HVAC UNITS. MAINTAIN MIN. 10'-0" CLEARANCE. OFFSET VTR AS NECESSARY. COORDINATE PIPE ROUTING WITH HVAC AND SPRINKLER CONTRACTORS.
9. SITE WATER PRESSURE IS - PSI PER SEATTLE WATER DEPT.
10. RISER DIAGRAMS & PLANS DO NOT SHOW SOME PIPING OFFSETS REQUIRED FOR STRUCTURAL CLEARANCES. EXACT ROUTING MAY VARY FROM THAT INDICATED. ALL WASTE PIPING INCLUDING RISERS ON RESIDENTIAL LEVELS TO BE CAST IRON.
11. PROVIDE ELECTRIC HEAT TRACE UNDER PIPING INSULATION FOR ALL WATER PIPING INSTALLED IN UNHEATED GARAGE SPACES.
12. CONFIGURE PIPING FOR SUDS RELIEF AS REQUIRED BY THE UPC.
13. ALL LEVER CONTROLLED WATER CLOSETS TO BE INSTALLED WITH THE LEVER ON THE OPEN SIDE OF THE BATHROOM.

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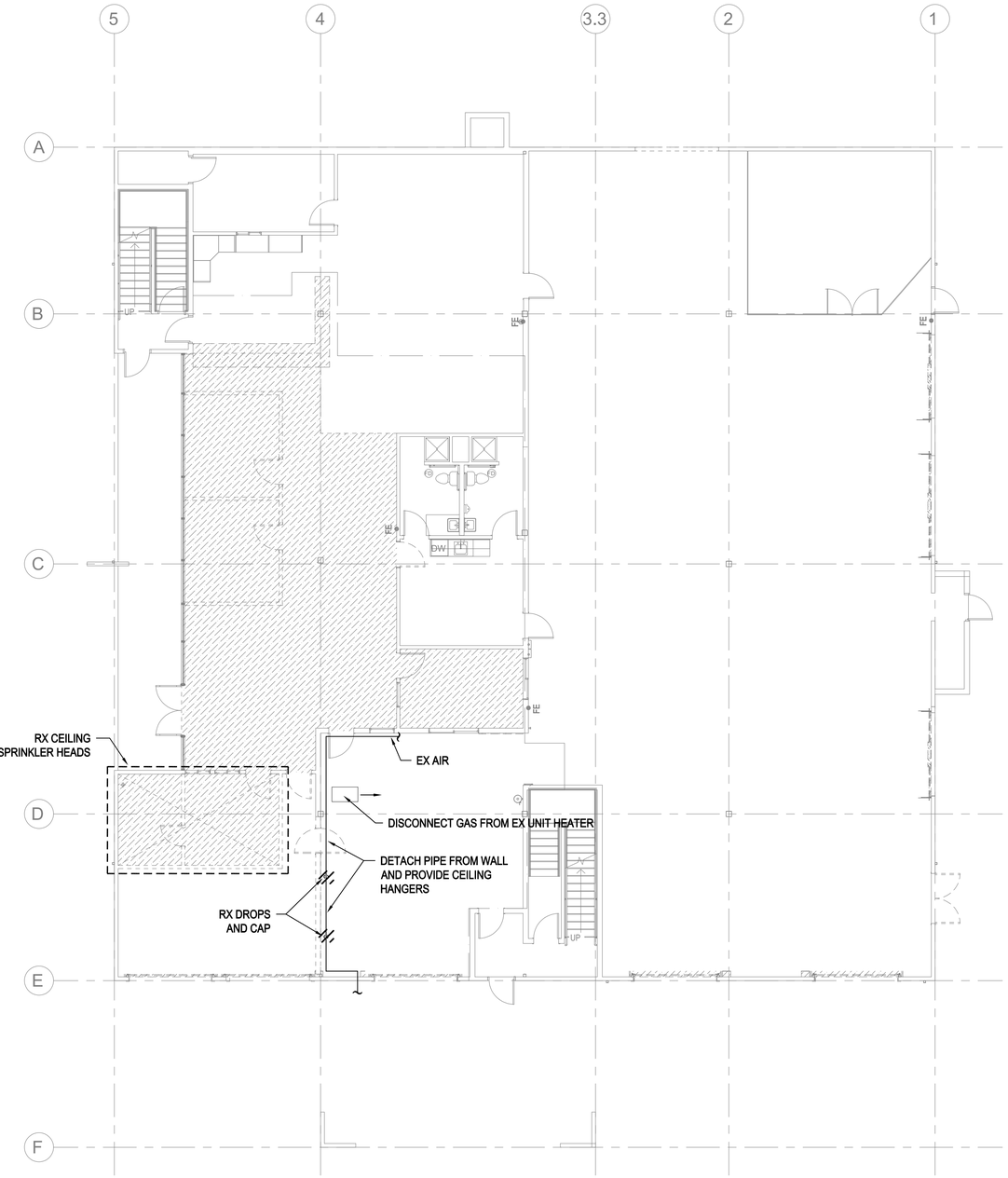
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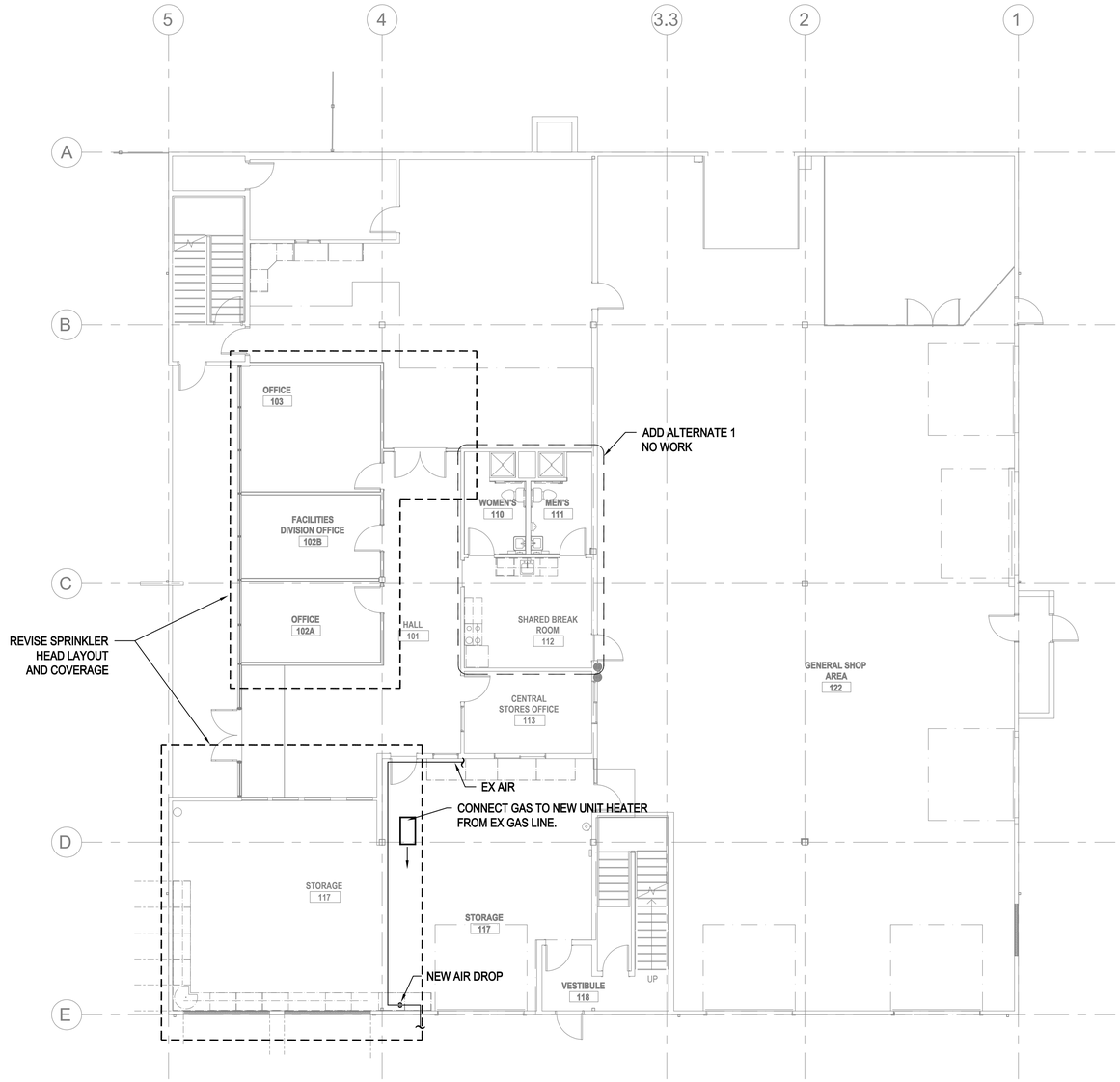
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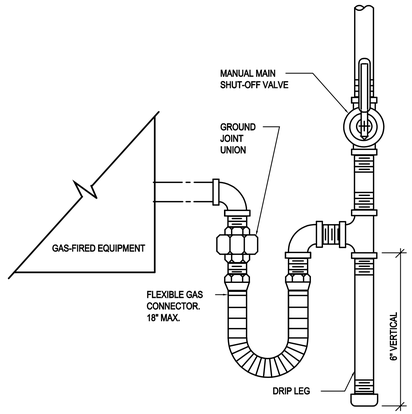
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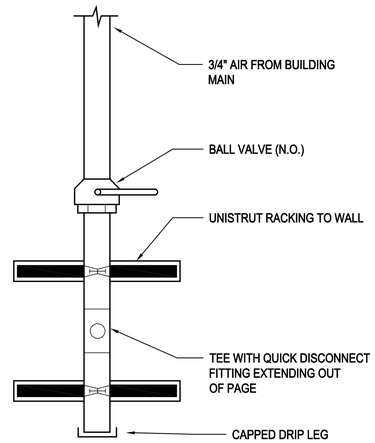
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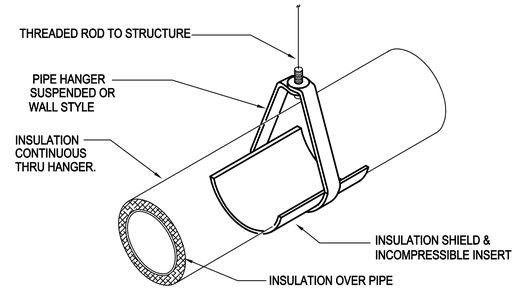
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3 P23.01 **GAS LINE CONNECTION DETAIL**
N.T.S.



2 P23.01 **AIR DROP DETAIL**
N.T.S.



NOTE:
INSULATE & LABEL PIPING PER. SPEC.

1 P23.01 **PIPE HANGER DETAIL**
N.T.S.

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED LIGHT FIXTURE
	SURFACE OR RECESSED LIGHT FIXTURE
	EGRESS FIXTURE WITH EMERGENCY BATTERY PACK. PROVIDE UNSWITCHED HOT LEG.
	EXIT SIGN
	RECEPTACLES
	DUPLEX RECEPTACLE
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
J	JUNCTION BOX - SIZE PER CODE
	SWITCHED
$VS	LINE VOLTAGE VACANCY SENSOR SWITCH WITH PHOTOCELL
OS	OCCUPANCY SENSOR (LIGHTING CONTROL)
	EXISTING PANEL
	EXISTING MAIN DISTRIBUTION BOARD
	MISCELLANEOUS
1	CONSTRUCTION NOTES
1	DEMOLITION NOTES
$	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
$	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
	SYSTEMS
	DATA OUTLET - PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 1" CONDUIT TO NEAREST ACCESSIBLE CEILING, (2) CATEGORY 6 DATA JACKS WITH 2-PORT FACEPLATE, AND CATEGORY 6 CABLES - WALL MOUNTED AT 18" AFF UNLESS SHOWN OTHERWISE. HOMERUN CABLES TO THE MDF. TERMINATE CABLES ON NEW PATCH PANELS IN OFOI RACK AND PROVIDE 10' OF COILED CABLING AT THE RACK LOCATION. SEE E701 FOR OUTLET REQUIREMENTS.
MS	MOTION SENSOR. WALL MOUNT AT +8' AFF. PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.
S	PAGING SYSTEM SPEAKER - SURFACE MOUNT +8'-0"
KP	INTRUSION ALARM SYSTEM KEYPAD. WALL MOUNT AT +4' AFF. PROVIDE 4S BACKBOX (NEW WALLS), DUAL GANG MUDRING, (1) 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.
	EXISTING TELECOMMUNICATIONS RACK
TGMB	TELECOMMUNICATIONS MAIN GROUND BUSS BAR
TGB	TELECOMMUNICATIONS GROUND BUSS BAR
	FIRE ALARM SYSTEMS HORN STROBE - WALL MOUNTED. WALL MOUNT AT +8' AFF. PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.
P	FIRE ALARM SYSTEMS PULL STATION - WALL MOUNT AT +4' AFF. PROVIDE 4S BACKBOX (NEW WALLS), SINGLE GANG MUDRING, (1) 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.

ABBREVIATIONS

G	GROUND FAULT CIRCUIT INTERRUPTER	UC	UNDERCOUNTER
C	MOUNT ABOVE COUNTER	UG	UNDERGROUND
DW	DISHWASHER	C.	CONDUIT
EC	ELECTRICAL CONTRACTOR	CO	CONDUIT ONLY
MC	MECHANICAL CONTRACTOR	GR	GROUND
REQ'D	REQUIRED	CU	COPPER
MW	MICROWAVE	GC	GENERAL CONTRACTOR
REF	REFRIGERATOR	WS	WASHER
XFMR	TRANSFORMER	EGR	EQUIPMENT GROUND CONDUCTOR

GENERAL CONSTRUCTION NOTES (APPLY TO ALL SHEETS)

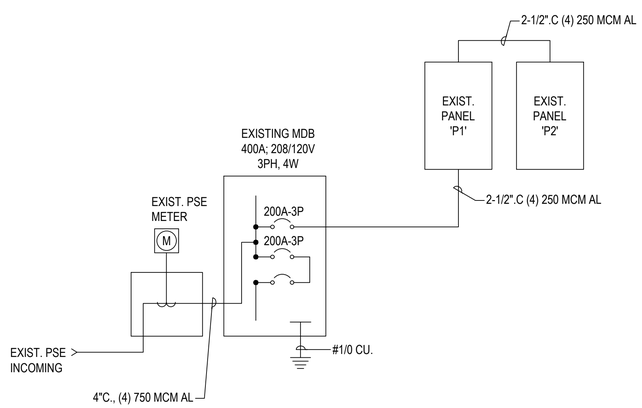
1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACT SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS, AND SHALL NOT RELY SOLELY ON REVIEW OF THE BIDDING DOCUMENTS IN DETERMINING THE EXTENT OF WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND UTILITY FEES.
3. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR A FIRE ALARM PERMIT.
4. PROVIDE CONDUIT SUPPORTS AS REQUIRED.
5. PROVIDE A GROUND WIRE FOR ALL CIRCUITS.
6. ALL DISCONNECTS SHALL BE THE HEAVY DUTY TYPE.
7. SEE EACH SHEET FOR ADDITIONAL GENERAL NOTES THAT ARE SPECIFIC TO AN AREA OR SHEET.
8. PROVIDE MANUFACTURER APPROVED BACK BOXES IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. ALL CABLE/CONDUIT ROUTING SHALL USE THE EXISTING CORRIDORS AS THE MAIN ROUTING PATH AS MUCH AS POSSIBLE BEFORE CROSSING INTO OTHER AREAS TO GET TO DEVICE/IDF LOCATIONS. LINE OF SIGHT ROUTING OF THE CABLE/CONDUITS WILL NOT BE ACCEPTABLE.
9. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURE.
10. PROVIDE SURFACE-MOUNTED DEVICES AND THEIR ASSOCIATED SURFACE-MOUNT BACK BOXES AND SURFACE-MOUNTED METAL RACEWAY (WIREMOLD OR EQUAL) IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE ON THE INTERIOR AND CONDUIT ON THE EXTERIOR. PAINT EACH BACKBOX , RACEWAY, AND CONDUIT TO MATCH THE ADJACENT SURFACE.
11. ROOMS AND/OR AREAS WITH EXPOSED CEILINGS SHALL HAVE ALL CABLES ROUTED IN CONDUIT. CONDUIT SHALL BE TIGHT TO STRUCTURE, ROUTED PARALLEL AND ADJACENT TO STRUCTURE, AND SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
12. WHERE OPEN CABLING IS PERMITTED BY CODE, EACH LOW VOLTAGE SYSTEM SHALL HAVE THEIR CABLES SUSPENDED SEPARATE FROM OTHER LOW VOLTAGE SYSTEMS (I.E. FIRE ALARM CABLES IN ONE J-HOOK, INTRUSION ALARM IN ANOTHER J-HOOK, AND SO ON). ALL CABLES MUST BE ROUTED IN CONDUIT IN AREAS WITH EXPOSED CEILINGS. CATEGORY RATED TELECOMMUNICATIONS CABLING FOR DATA, VOICE, CCTV AND ACCESS CONTROL MAY SHARE THE SAME J-HOOK AND PATHWAYS. EXISTING PATHWAYS SHALL BE UTILIZED WHENEVER POSSIBLE. IF EXISTING J-HOOK/CABLE TRAY IS ALREADY FULL, THEN NEW J-HOOK/CABLE TRAY SYSTEM SHALL BE PROVIDED FOR WIRING THIS PROJECT.
13. ALL TYPICAL DEVICES SHALL BE MOUNTED AT CONSISTENT LOCATIONS AND HEIGHTS THROUGHOUT THIS PROJECT, UNLESS NOTED OTHERWISE.
14. ROUTE ALL TELECOMMUNICATIONS CABLING TO IDF RACK SHOWN UNLESS NOTED OTHERWISE. COPPER TELECOMMUNICATIONS CABLING NOT TO EXCEED 295' TOTAL RUN LENGTH.
15. FOR LOW VOLTAGE DEVICES MOUNTED ON EXTERIOR WALLS, ROUTE CABLES CONCEALED IN EXISTING WALLS AND CORE DRILL AS REQUIRED FOR FLUSH-MOUNTED FINISHED DEVICES. SEAL AROUND ALL PENETRATIONS.
16. PROVIDE A BLANK FACEPLATE AND SCREWS AT ANY UNUSED LOW VOLTAGE SYSTEMS OUTLET LOCATION. IT IS TO BE PAINTED TO MATCH THE ADJACENT SURFACE OR WALL.
17. ALL LOW VOLTAGE CABLING SHALL BE PLENUM RATED.
18. COORDINATE ALL CONSTRUCTION WITH THE ARCHITECT AND SOUTH KING FIRE AND RESCUE. ALL NORMALLY OCCUPIED SPACES SHALL REMAIN ONLINE DURING DEMOLITION AND CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF ALL EXISTING SYSTEMS AND RECONNECT/REPAIR ANY DAMAGE DONE TO EXISTING SYSTEMS. SECURITY, FIRE ALARM, AND EMERGENCY COMMUNICATION LINES SHALL REMAIN CONNECTED.
19. PANEL DESIGNATIONS AND CIRCUIT NUMBERS ARE ONLY INDICATED ON THE DRAWINGS FOR REFERENCE BY THE ELECTRICAL CONTRACTOR. THE E.C. IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRING, JUNCTION BOXES AND MISCELLANEOUS ACCESSORIES TO ACCOMMODATE INSTALLATION AND CONNECTION OF ALL DEVICES INDICATED ON THE CONTRACT DOCUMENTS. ALL WIRING SHALL BE IN HARD CONDUIT BACK TO THE DESIGNATED PANELBOARD. MC TYPE CABLE IS NOT AN ACCEPTABLE WIRING METHOD. ALL JUNCTION BOXES SHALL BE LABELED IDENTIFYING THE PANELBOARD AND CIRCUIT CONTAINED WITHIN. THERE SHALL BE NO MORE THAN (3) CIRCUITS PER HOMERUN. MULTI-WIRE CIRCUITS ARE NOT ALLOWED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL UNLESS SPECIFICALLY ALLOWED BY THE ENGINEER. ALL WIRING SHALL BE SIZED ACCORDING TO AMPACITY OF THE CIRCUIT BREAKER INDICATED ON THE PANEL SCHEDULES. ALL CONDUIT SHALL BE SIZED PER NEC CODE BASED ON THE CONDUCTOR SIZE, TYPE, QUANTITY AND MINIMUM FILL REQUIREMENTS. CIRCUITS OVER 120 FEET FOR 120V AND 250' FOR 277V SHALL BE UP SIZED ONE WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP. E.C. IS RESPONSIBLE TO SHOW ALL JUNCTION BOX LOCATIONS, CONDUIT ROUTING AND HOMERUNS ON A SET OF AS-BUILT DRAWINGS.

GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

1. SEE DRAWINGS FOR EMERGENCY LIGHTING FIXTURES.
2. FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT, OCCUPANCY SENSORS AND TIME CLOCK CONTROLS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TESTING OF THE CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS TO MAKE SURE THEY ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED IN THE PRESENCE OF THE ENGINEER. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

LIGHTING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER/MODEL #	LAMP/K	LUMENS	V	WATTS	MOUNTING & REMARKS
RL1	6" DIAMETER LED DOWNLIGHT	PRESCOLITE # LF6SL-6LFSL11L35K8DLB24	LED 3500K	1100	MVOLT	14	
RL2	2'X2' LED FLAT PANEL	COLUMBIA LIGHTING # CFP22-3335-HE	LED 3500K	3469	MVOLT	26	
EX1	LED EXIT SIGN	LITHONIA LIGHTING # LQM S W 3 R 120/277 EL N	LED		MVOLT	0.75	



1 EXISTING ONE-LINE DIAGRAM
SCALE: NTS

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8/7/20

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PROJECT # 2015137
BID SET
ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE

ELECTRICAL LEGEND, ABBREVIATION & NOTES

SHEET #
E10.01

ELECTRICAL SPECIFICATION

1. IT IS THE INTENTION OF THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO DESCRIBE AND PROVIDE FOR THE FURNISHING, INSTALLING, TESTING AND PLACING IN SATISFACTORY AND SUCCESSFUL OPERATION ALL EQUIPMENT, MATERIALS, DEVICES AND NECESSARY APPURTENANCES TO PROVIDE A COMPLETE ELECTRICAL SYSTEM.

2. THE WORK SHALL COMPLY WITH THE LATEST EDITION OF THE APPLICABLE STANDARDS AND CODES OF THE FOLLOWING:

NEC	NATIONAL ELECTRICAL CODE
WAC296-46B	WASHINGTON STATE ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
U.L.	UNDERWRITERS LABORATORIES INC.
	FEDERAL, STATE AND LOCAL BUILDING CODES
ETL	ELECTRICAL TESTING LABORATORIES

3. THE ELECTRICAL DRAWINGS ARE INTENDED TO SERVE AS WORKING DRAWINGS FOR GENERAL LAYOUT. THE EQUIPMENT LAYOUT IS DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED OR DETAILED, DOES NOT INDICATE ALL FITTINGS, HARDWARE OR APPURTENANCES REQUIRED FOR A COMPLETE OPERATING INSTALLATION.

4. ALL ELECTRICAL MATERIALS SHALL BE KEPT STORED IN AN ORDERLY FASHION PROTECTED FROM HEAT, COLD, AND THE WEATHER.

5. ALL DEBRIS SHALL BE REMOVED FROM PREMISES DURING WORK, AS DIRECTED, AND AT COMPLETION OF JOB.

6. TEMPORARY OR INTERIM USE OF ANY AND ALL PORTIONS OF THE ELECTRICAL SYSTEM SHALL BE UNDER THE SUPERVISION OF THE ELECTRICAL CONTRACTOR.

7. THE CONTRACTOR SHALL MAINTAIN, IN ADDITION TO ANY REFERENCE DRAWINGS, AN AS-BUILT SET OF PRINTS, ON WHICH ALL DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE DRAFTED IN A NEAT, LEGIBLE MANNER WITH RED COLORED PENCIL. THIS RED LINED SET SHALL IDENTIFY ALL DRAWING REVISIONS INCLUDING ADDENDA ITEMS, CHANGE ORDERS, AND CONTRACTOR REVISIONS. THE CONTRACTOR IS RESPONSIBLE TO REVISE PANEL SCHEDULES AND LOAD CALCULATIONS AS REQUIRED.

8. PROVIDE A WRITTEN WARRANTY THAT THE ELECTRICAL WORK IS FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. CONTRACTOR SHALL REPLACE AND REPAIR, TO THE SATISFACTION OF THE ENGINEER, ANY PARTS OF THE INSTALLATION WHICH MAY FAIL WITHIN A PERIOD OF 12 MONTHS AFTER THE DATE OF SUBSTANTIAL COMPLETION, PROVIDED THAT SUCH FAILURE IS DUE TO DEFECTS IN MATERIAL OR WORKMANSHIP, OR FAILURE TO FOLLOW THE SPECIFICATIONS AND DRAWINGS.

9. UPON COMPLETION OF THE ELECTRICAL WORK, THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR PROJECT CLOSEOUT.

10. ALL MATERIALS MUST BE OF THE QUALITY HEREIN SPECIFIED. ALL MATERIALS SHALL BE NEW, OF THE BEST QUALITY AND FREE FROM DEFECTS. THEY SHALL BE DESIGNED TO ENSURE SATISFACTORY OPERATION AND OPERATIONAL LIFE IN THE ENVIRONMENTAL CONDITIONS WHICH WILL PREVAIL WHERE THEY ARE BEING INSTALLED.

11. EACH TYPE OF MATERIAL SHALL BE OF THE SAME MAKE AND QUALITY. THE MATERIALS FURNISHED SHALL BE STANDARD PRODUCTS OF THE MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH EQUIPMENT AND SHALL BE THE MANUFACTURER'S LATEST STANDARD DESIGN.

12. ALL MATERIALS SHALL BE U.L. OR E.T.L. LISTED FOR THE PURPOSE FOR WHICH THEY ARE USED.

13. EQUIPMENT IN COMPLIANCE WITH U.L. STANDARDS BUT NOT BEARING THEIR LABEL IS NOT ACCEPTABLE. IF THE MANUFACTURER CANNOT ARRANGE FOR LABELING OF AN ASSEMBLED UNIT AT THE FACTORY THE UNIT SHALL BE FIELD EVALUATED PER THE WASHINGTON STATE ADMINISTRATIVE CODE (WAC) AND THE ELECTRICAL INSPECTOR'S REQUIREMENTS.

14. ALL THE SYSTEMS MENTIONED SHALL BE COMPLETE AND OPERATIONAL IN EVERY DETAIL EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. MENTION OF CERTAIN MATERIALS IN THESE SPECIFICATIONS SHALL NOT BE CONSTRUED AS RELEASING THE CONTRACTOR FROM FURNISHING SUCH ADDITIONAL MATERIALS AND PERFORMING ALL LABOR REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

15. CAREFUL CONSIDERATION SHALL BE GIVEN TO CLEARANCES UNDER AND OVER BEAMS, PIPES AND DUCTS, TO PROVIDE PROPER HEADROOM IN ALL CASES. CHECK DRAWINGS TO DETERMINE HEIGHTS OF ALL SUSPENDED CEILINGS AND SIZE OF PIPE SHAFTS WHERE RACEWAY AND WIRE-WAYS SHALL RUN. COORDINATE INSTALLATION OF DIVISION 26 WIRING AND EQUIPMENT WITH DIVISION 23 AND OTHER TRADES. WHERE INSUFFICIENT ROOM FOR PROPER INSTALLATION APPEARS, OBTAIN CLARIFICATION FROM ENGINEER BEFORE ANY INSTALLATION IS BEGUN.

16. THE CONTRACTOR IS RESPONSIBLE FOR ACCOMPLISHING ELECTRICAL WORK. THE WORK SHALL COORDINATE WITH THAT OF THE OTHER CONTRACTORS AND/OR OTHER TRADES DOING WORK IN THE BUILDING AND SHALL EXAMINE ALL DRAWINGS, INCLUDING THE SEVERAL DIVISIONS OF MECHANICAL FOR CONSTRUCTION DETAILS AND NECESSARY COORDINATION. SPECIFIC LOCATIONS OF CONSTRUCTION FEATURES AND EQUIPMENT SHALL BE OBTAINED FROM THE CONTRACT DOCUMENTS, FIELD MEASUREMENTS, AND/OR FROM THE TRADE PROVIDING THE MATERIAL OR EQUIPMENT. NO EXTRA COSTS WILL BE ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.

17. THE CONTRACTOR WILL NOT BE PAID FOR WORK REQUIRING REINSTALLATION DUE TO LACK OF COORDINATION OR INTERFERENCE WITH OTHER CONTRACTORS OR TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO, REMOVING, REPLACING, RELOCATING, CUTTING, PATCHING, AND FINISHING.

18. PROVIDE IDENTIFYING LEGIBLE BLACK LABELING ON ALL EQUIPMENT, INCLUDING PULL BOXES, TO CLEARLY INDICATE ITS USE, AREA SERVED, CIRCUIT IDENTIFICATION, VOLTAGE, AND ANY OTHER USEFUL DATA.

19. PROVIDE ACCESS PANELS AS NEEDED FOR PULL BOXES AND EQUIPMENT LOCATED ABOVE CEILING OR BEHIND WALLS.

20. ALL PENETRATION THROUGH WALL MUST BE MADE SUCH AS TO RETAIN THE WALL OR FLOOR RATING.

21. PROVIDE HANGERS, BRACKETS, AND SUSPENSION RODS AND SUPPLEMENTARY STEEL TO SUPPORT EQUIPMENT.

22. WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT WORKERS SHALL BE EMPLOYED UNDER THE SUPERVISION OF A COMPETENT FOREMAN. ALL COMPLETED WORK SHALL REPRESENT A NEAT AND WORKMANSHIP LIKE APPEARANCE.

23. SWITCHES SHALL BE INDUSTRIAL SPECIFICATION GRADE, QUIET TYPE, RATED 277 VOLT, 20 AMP WITH PLASTIC HANDLE. PROVIDE SINGLE POLE, DOUBLE POLE, 3-WAY OR LOCKING TYPE AS REQUIRED. IVORY IN COLOR.

24. IN OFFICES, PROVIDE A VACANCY SENSOR WITH PHOTOCELL COMBINATION WALL SWITCH WITH DIMMING CAPABILITY. HUBBELL – LIGHTHAWK OR APPROVED EQUAL.

25. RECEPTACLES SHALL BE INDUSTRIAL SPECIFICATION GRADE, DUPLEX NEMA 5-20R CONFIGURATION UNLESS INDICATED OTHERWISE. MUST HAVE 'RIVETLESS GROUND' CONTACT MANUFACTURED AS AN INTEGRAL COMPONENT OF THE EXTERNAL GROUND SCREW TERMINAL. IVORY IN COLOR. PROVIDE GFI RECEPTACLES WHERE REQUIRED BY CODE.

26. OCCUPANCY SENSORS SHALL BE SELF-ADJUSTING DUAL TECHNOLOGY TYPE WITH AUXILIARY CONTACT FOR CONNECTION TO MECHANICAL SYSTEM. PROVIDE WALL OR CEILING TYPE AS INDICATED ON THE DRAWINGS.

27. PROVIDE THERMOPLASTIC COVERPLATES FOR ALL SWITCHES AND RECEPTACLES.

28. PROVIDE FIRE ALARM DEVICES, WIRING AND PROGRAMMING TO MATCH THE EXISTING SYSTEM. ALL CABLING SHALL BE PLENUM RATED.

29. METAL CLAD CABLE (TYPE MC) AND FITTINGS MAY BE UTILIZED FOR POWER, CONTROL AND LIGHTING SYSTEMS RATED 20-AMPS OR LESS. CABLE SHALL BE EQUIPPED WITH AN EQUIPMENT GROUND WIRE.

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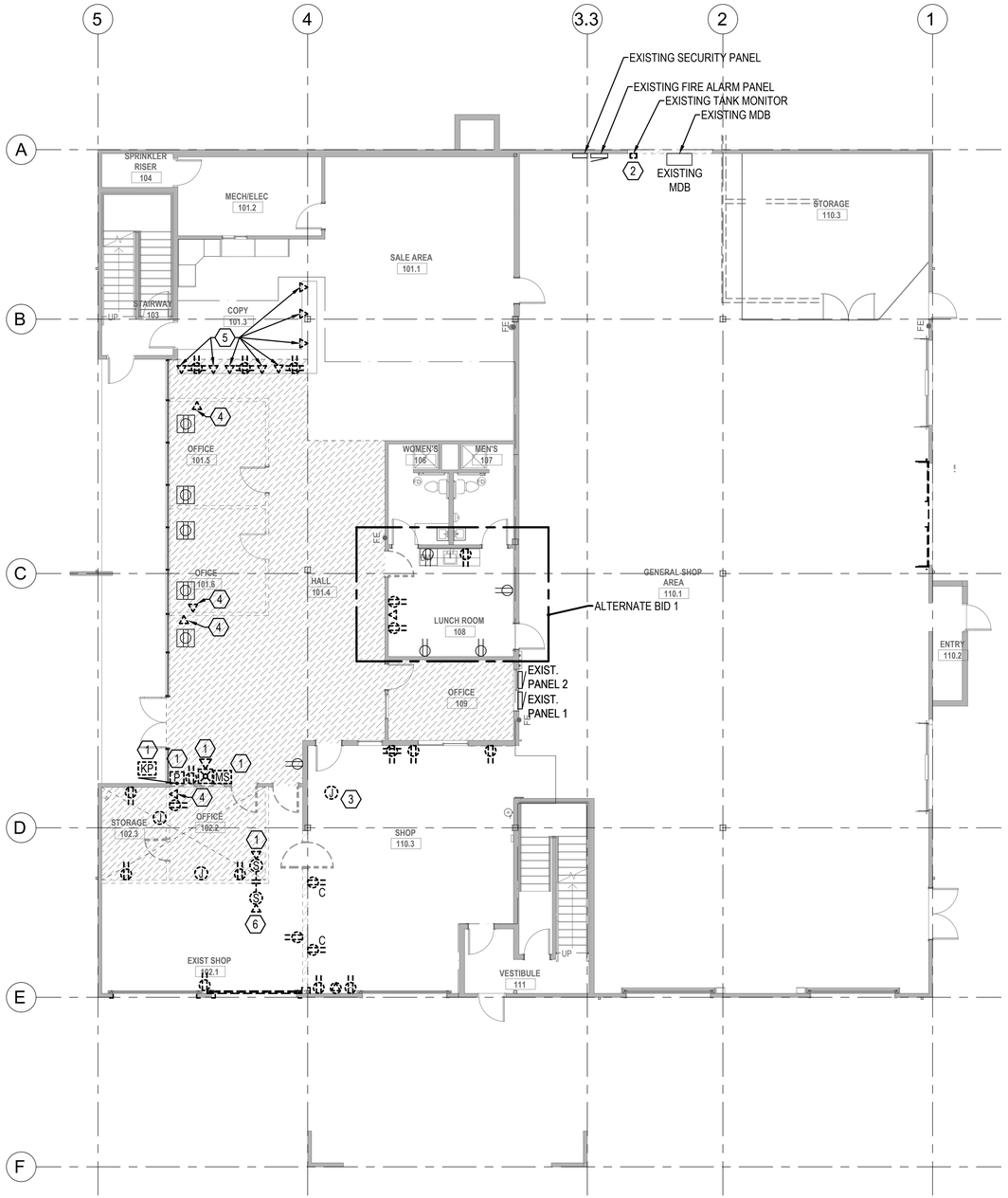
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ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

ELECTRICAL SPECIFICATION

SHEET #
E10.02



GENERAL DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS/HER BID ALL COSTS ASSOCIATED WITH NECESSARY DEMOLITION TO ALLOW NEW CONSTRUCTION SHOWN IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REMOVE ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, DEVICES, ABANDONED RACEWAYS, CONDUCTORS, TOGETHER WITH ANY AUXILIARY ITEMS TO ALLOW NEW CONSTRUCTION AND FINISH TO OCCUR AS COMPLIMENTED BY THE CONTRACT DOCUMENTS. DASHED LINES INDICATE EXISTING DEVICES AND EQUIPMENT TO BE REMOVED.
2. THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIAL. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREAS AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THERE AND SHALL NOT RELY SOLELY ON REVIEW OF THE BIDDING DOCUMENTS IN DETERMINING THE EXTENT OF DEMOLITION WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL PROVIDE CLARITY SKETCHES, DIAGRAMS, AND FIELD DIMENSIONS OF EXISTING CONDITIONS AT THE REQUEST OF THE ENGINEER IR/WHEN CONFLICTS ARE IDENTIFIED.
3. REMOVE ALL WIRES, CABLES AND SURFACE MOUNT RACEWAYS AND APPURTENANCES WHICH SERVE DEVICES BEING REMOVED, CUT CONDUIT FLUSH TO CEILING OR WALL WHEN CONCEALED, AND SEAL OFF WITH SPRAY FOAM. ABANDON FLUSH BOXES AND NON-ACCESSIBLE CONDUIT. PROVIDE COVER PLATES FOR ALL BOXES TO REMAIN. CUT CONDUIT FLUSH TO FLOOR AND SEAL WITH GROUT.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING, PATCHING AND FINISH WORK.
5. CONTRACTOR SHALL REMOVE AND DELIVER TO OWNER ALL DEVICES THAT ARE IDENTIFIED BY OWNER TO BE RETAINED. CONTRACTOR SHALL COORDINATE WITH OWNER TO ASSURE THAT ALL ITEMS TO BE RETAINED ARE IDENTIFIED PRIOR TO THE START OF DEMOLITION. ALL ITEMS NOT SO IDENTIFIED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSE OF OFF SITE.
6. ELECTRICAL CONTRACTOR SHALL REMOVE ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT TO BE DEMOLISHED. E.C. SHALL CHECK ALL DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS FOR UNIT LOCATIONS. ALL CONDUITS PENETRATING THROUGH THE ROOF AND ACCESSIBLE SHALL BE REMOVED.
7. UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE ALL DEVICES INDICATED. MAINTAIN CONTINUITY OF ALL REMAINING DEVICES & EQUIPMENT. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE TO EXTEND EXISTING CIRCUITS AS REQUIRED.
8. ALL EXISTING SECURITY SYSTEM DEVICES MUST BE KEPT INTACT AND OPERATIONAL. ALL DEVICES THAT REQUIRE RELOCATION TO FACILITATE NEW WORK MUST BE RE-ROUTED AND RECONNECTED TO MAINTAIN OPERATION.
9. CONTRACTOR SHALL RETAIN ALL RECESSED JUNCTION BOXES ON THE EXISTING CEILINGS TO REMAIN. SEE SHEET E2.00 FOR THE NEW LIGHTING LAYOUT. CONTRACTOR MAY REUSE EXISTING LIGHTING JUNCTION BOXES FROM REMOVED LIGHT FIXTURES IF FEASIBLE FOR CIRCUITING THE NEW LIGHTING FIXTURES. OTHERWISE, PROVIDE A BLANK COVERPLATE.
10. COORDINATE ALL OUTAGES WITH THE OWNER TO LIMIT INCONVENIENCES TO THE BUILDING OCCUPANTS.

DEMOLITION NOTES

1. DISCONNECT EXISTING DEVICE AND LEAVE CABLING ABOVE THE ACCESSIBLE CEILING. RETAIN FOR REINSTALLATION. KEEP INTRUSION ALARM AND FIRE ALARM SYSTEM ACTIVE DURING DEMOLITION AND CONSTRUCTION. COORDINATE WITH THE OWNER FOR TEMPORARY LOCATIONS.
2. DEMOLISH EXISTING TANK MONITORING UNIT. COORDINATE WITH OWNER PRIOR.
3. DISCONNECT POWER TO EXISTING GAS UNIT HEATER. MAINTAIN EXISTING CIRCUIT FOR RECONNECTION TO A NEW UNIT.
4. BACK PULL CABLE INTO THE ACCESSIBLE CEILING AND PROTECT FOR RE-USE. SEE SHEET E22.01. IN OFFICE 101.5 AND 101.6 DEMO SURFACE MOUNT RACEWAY BETWEEN TOP OF EXISTING WALL AND CEILING.
5. BACK PULL CABLE INTO THE ACCESSIBLE CEILING, COIL AND ATTACH TO THE STRUCTURE. ENSURE CABLES HAVE A WRAP-AROUND LABEL. LABEL THE CEILING GRID BELOW FOR THE OWNER TO LOCATE CABLES IN THE FUTURE. DEMO SURFACE MOUNT RACEWAY ON THE COLUMN AND RETURN TO THE OWNER.
6. DISCONNECT AND RETURN TO THE OWNER.

N
1 BLDG 1 - LEVEL 1 ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

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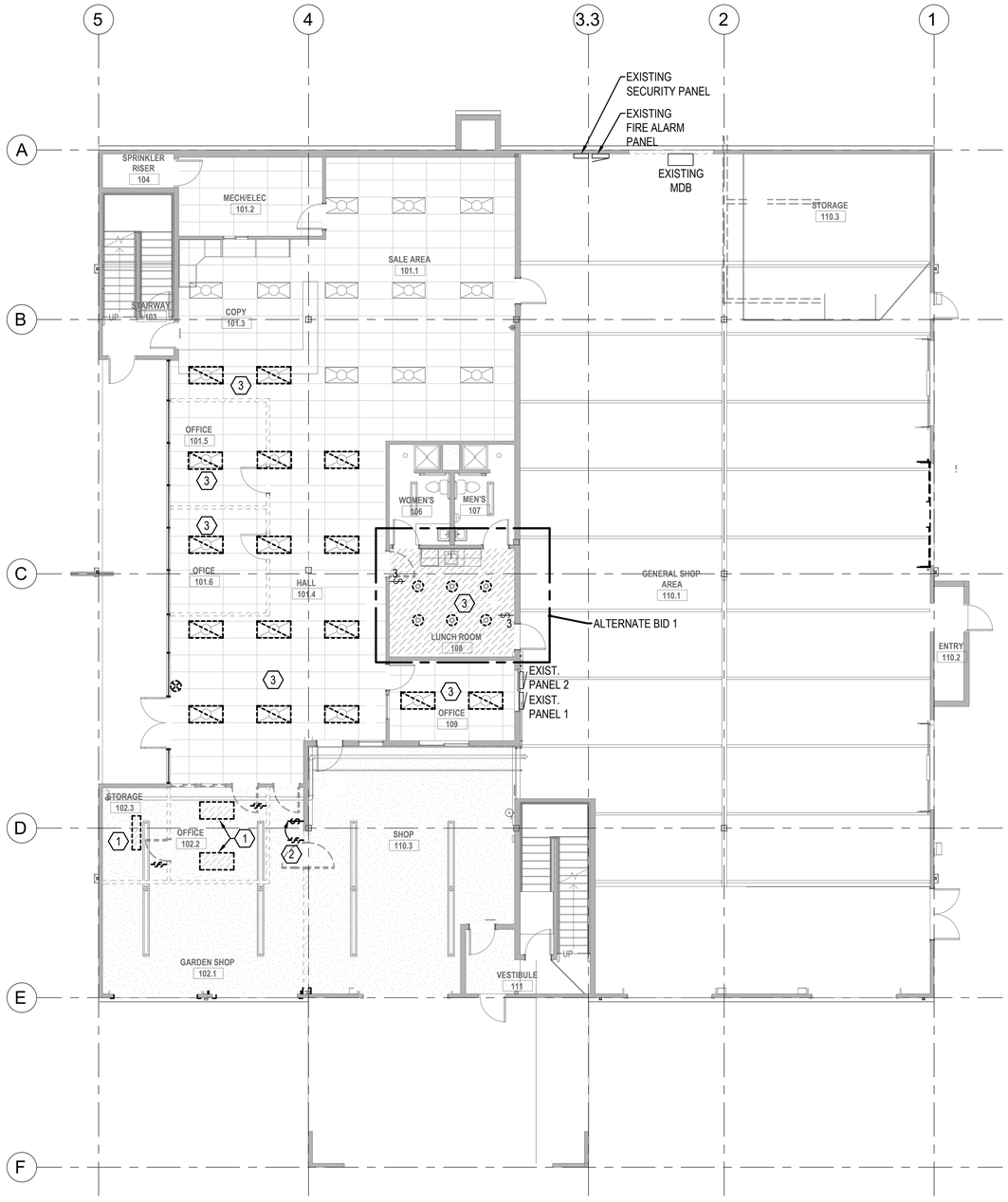
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PROJECT # 2015137
BID SET
ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE

BLDG 1 - LEVEL 1
ELECTRICAL
DEMOLITION PLAN

SHEET #
E21.01



N

1 BLDG 1 - LEVEL 1 LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS/HER BID ALL COSTS ASSOCIATED WITH NECESSARY DEMOLITION TO ALLOW NEW CONSTRUCTION SHOWN IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REMOVE ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, DEVICES, ABANDONED RACEWAYS, CONDUCTORS, TOGETHER WITH ANY AUXILIARY ITEMS TO ALLOW NEW CONSTRUCTION AND FINISH TO OCCUR AS COMPLIMENTED BY THE CONTRACT DOCUMENTS. DASHED LINES INDICATE EXISTING DEVICES AND EQUIPMENT TO BE REMOVED.

2. THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIAL. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREAS AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THERE AND SHALL NOT RELY SOLELY ON REVIEW OF THE BIDDING DOCUMENTS IN DETERMINING THE EXTENT OF DEMOLITION WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL PROVIDE CLARITY SKETCHES, DIAGRAMS, AND FIELD DIMENSIONS OF EXISTING CONDITIONS AT THE REQUEST OF THE ENGINEER IR/WHEN CONFLICTS ARE IDENTIFIED.

3. REMOVE ALL WIRES, CABLES AND SURFACE MOUNT RACEWAYS AND APPURTENANCES WHICH SERVE DEVICES BEING REMOVED, CUT CONDUIT FLUSH TO CEILING OR WALL WHEN CONCEALED, AND SEAL OFF WITH SPRAY FOAM. ABANDON FLUSH BOXES AND NON-ACCESSIBLE CONDUIT. PROVIDE COVER PLATES FOR ALL BOXES TO REMAIN. CUT CONDUIT FLUSH TO FLOOR AND SEAL WITH GROUT.

4. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING, PATCHING AND FINISH WORK.

5. CONTRACTOR SHALL REMOVE AND DELIVER TO OWNER ALL DEVICES THAT ARE IDENTIFIED BY OWNER TO BE RETAINED. CONTRACTOR SHALL COORDINATE WITH OWNER TO ASSURE THAT ALL ITEMS TO BE RETAINED ARE IDENTIFIED PRIOR TO THE START OF DEMOLITION. ALL ITEMS NOT SO IDENTIFIED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSE OF OFF SITE.

6. ELECTRICAL CONTRACTOR SHALL REMOVE ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT TO BE DEMOLISHED. E.C. SHALL CHECK ALL DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS FOR UNIT LOCATIONS. ALL CONDUITS PENETRATING THROUGH THE ROOF AND ACCESSIBLE SHALL BE REMOVED.

7. UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE ALL DEVICES INDICATED. MAINTAIN CONTINUITY OF ALL REMAINING DEVICES & EQUIPMENT. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE TO EXTEND EXISTING CIRCUITS AS REQUIRED.

8. ALL EXISTING SECURITY SYSTEM DEVICES MUST BE KEPT INTACT AND OPERATIONAL. ALL DEVICES THAT REQUIRE RELOCATION TO FACILITATE NEW WORK MUST BE RE-ROUTED AND RECONNECTED TO MAINTAIN OPERATION.

9. CONTRACTOR SHALL RETAIN ALL RECESSED JUNCTION BOXES ON THE EXISTING CEILINGS TO REMAIN. SEE SHEET E2.00 FOR THE NEW LIGHTING LAYOUT. CONTRACTOR MAY REUSE EXISTING LIGHTING JUNCTION BOXES FROM REMOVED LIGHT FIXTURES IF FEASIBLE FOR CIRCUITING THE NEW LIGHTING FIXTURES. OTHERWISE, PROVIDE A BLANK COVERPLATE.

10. COORDINATE ALL OUTAGES WITH THE OWNER TO LIMIT INCONVENIENCES TO THE BUILDING OCCUPANTS.

DEMOLITION NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND TURN THEM OVER TO THE OWNER.
2. RELOCATE EXISTING LIGHT SWITCH TO NEW LOCATION AS INDICATED.
3. MAINTAIN EXISTING LIGHTING CIRCUIT FOR NEW LIGHTS.

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CHARLES A. HEATON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
8/7/20

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 60
35100 PACIFIC HIGHWAY SOUTH,
FEDERALWAY, WA 98003

PROJECT # 2015137

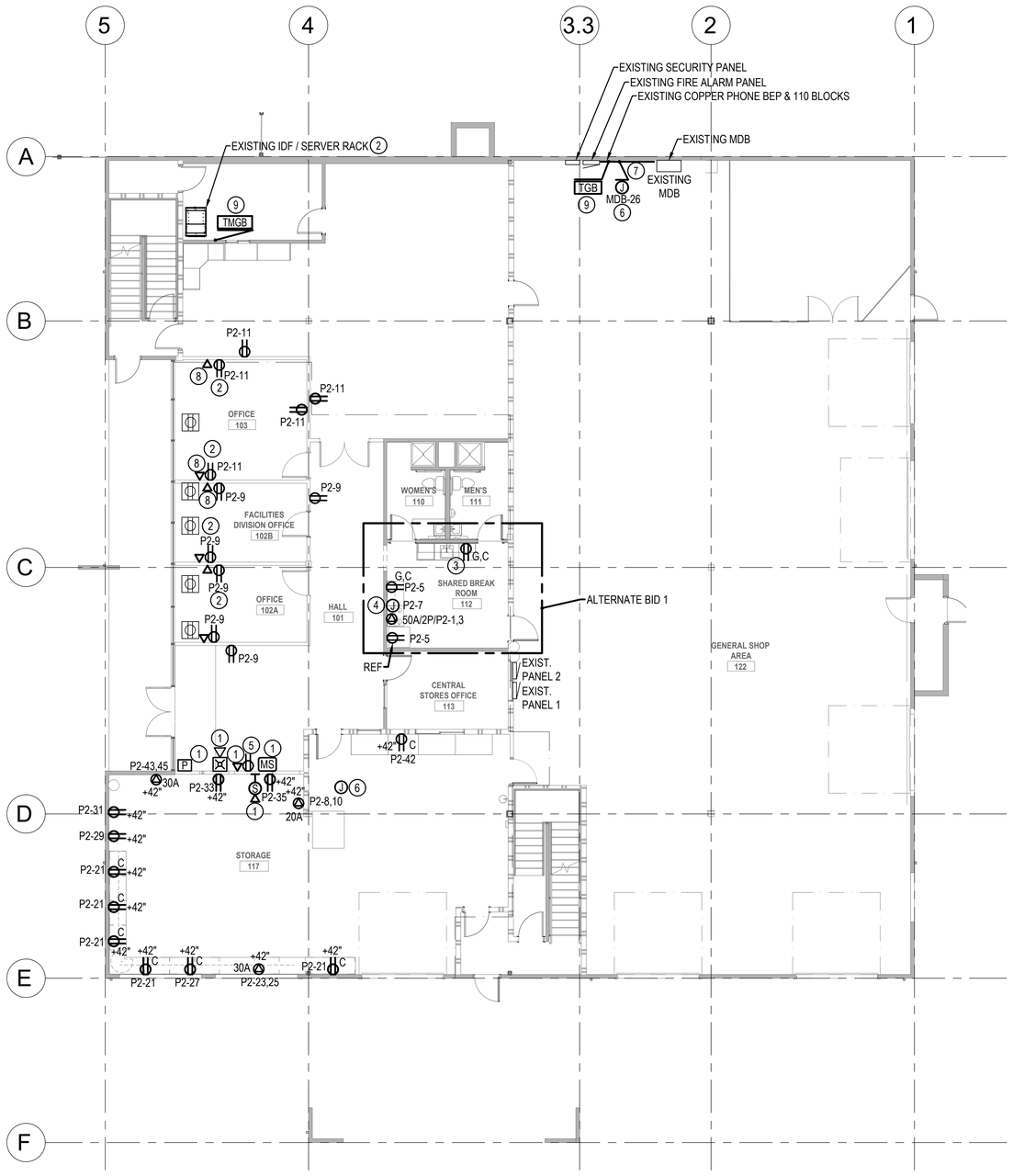
BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

BLDG 1 - LEVEL 1
LIGHTING
DEMOLITION PLAN

SHEET #
E21.02



CONSTRUCTION NOTES

1. REINSTALL EXISTING DEVICES IN NEW WALL.
2. PROVIDE NEW 24-PORT CAT6 PATCH PANEL IN RACK FOR NEW DATA OUTLETS. LOCATE UNDER EXISTING 48-PORT PATCH PANEL. COORDINATE WITH OWNER FOR MOUNTING RACK DEVICES. EXISTING DATA OUTLETS CAN BE LEFT ON EXISTING PATCH PANEL.
3. REPLACE EXISTING DEVICE WITH NEW.
4. PROVIDE CONNECTION TO RANGE HOOD/MICROWAVE.
5. CONNECT RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT.
6. PROVIDE (1) NEW 20A 1-POLE CIRCUIT AND CONNECTION TO ACCESS CONTROL POWER SUPPLY FROM MDB. LOCATE JUNCTION BOX ON THE NEW PLYWOOD BACKING.
7. PROVIDE NEW FIRE RATED PLYWOOD BACKING MATERIAL ON WALL FROM EXISTING BACKING BOARD TO THE MDB PANEL FOR FUTURE ACCESS CONTROL PANEL, ACCESS CONTROL POWER SUPPLY, AND DEDICATED ELECTRICAL CIRCUIT JUNCTION BOX.
8. INSTALL NEW DATA OUTLET WITH EXISTING DATA CABLE THAT WAS BACK PULLED INTO THE CEILING FOR RE-USE.
9. PROVIDE NEW TELECOMMUNICATIONS GROUNDING AND BONDING INFRASTRUCTURE PER PLANS, DETAILS AND SPECIFICATIONS. COORDINATE WITH THE OWNER FOR CONNECTING ALL EXISTING AND NEW TELECOM EQUIPMENT.

N

1 BLDG 1 - LEVEL 1 ELECTRICAL PLAN
1/8" = 1'-0"

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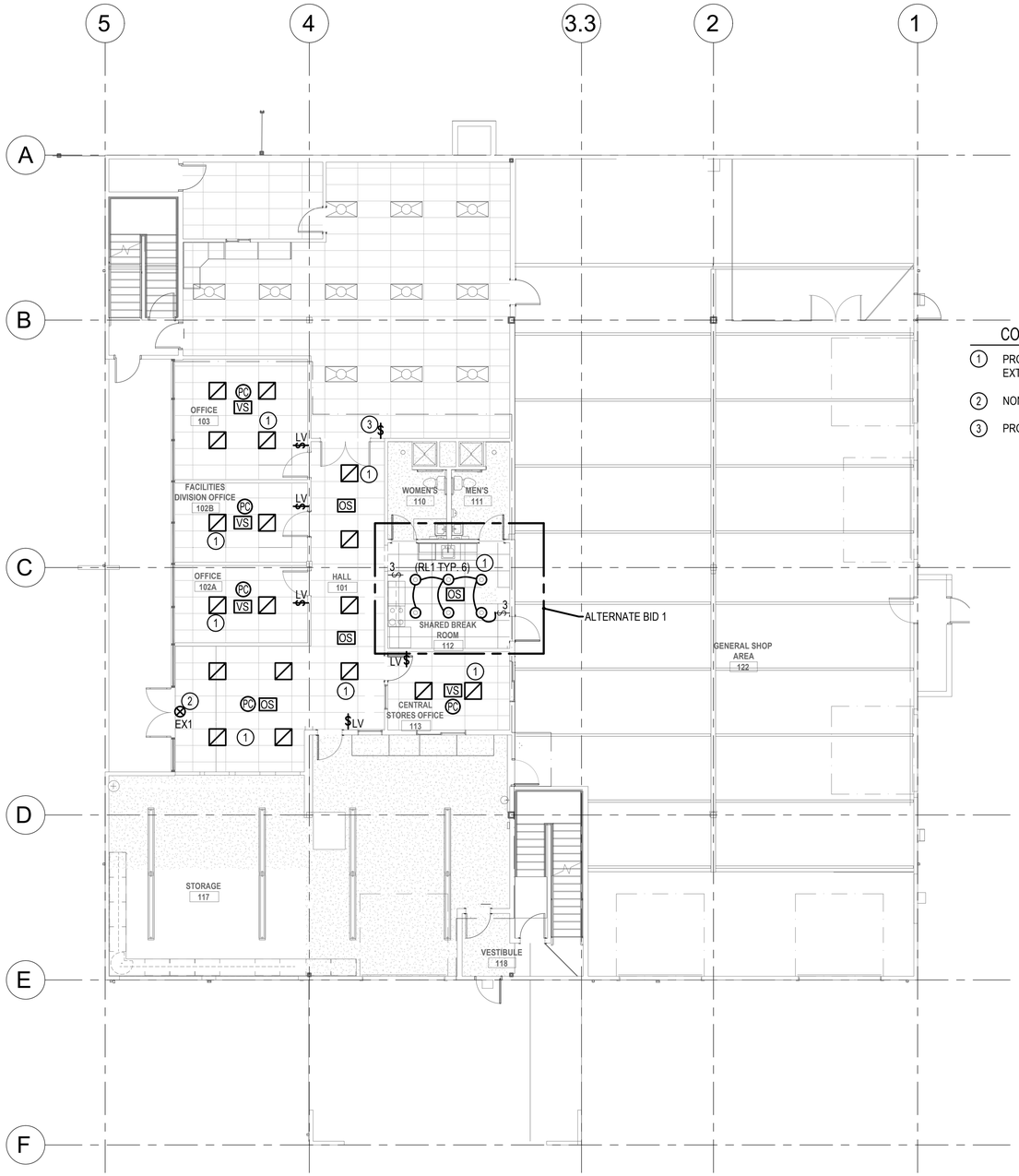
BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

BLDG 1 - LEVEL 1
ELECTRICAL PLAN

SHEET #
E22.01



CONSTRUCTION NOTES

1. PROVIDE CONNECTION OF NEW LIGHTS TO THE EXISTING LIGHTING CIRCUIT. EXTEND A HOT LEG TO CONTROL THE LIGHT.
2. NON-POWERED EXIT SIGN.
3. PROVIDE NEW SWITCH TO CONNECT ALL EXISTING LIGHTING CIRCUIT.

N

1 BLDG 1 - LEVEL 1 LIGHTING PLAN
1/8" = 1'-0"

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PROJECT # 2015137
BID SET
ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

BLDG 1 - LEVEL 1
LIGHTING PLAN

SHEET #
E22.02

PANEL: MDB (EXIST) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **400A**
LOC: WAREHOUSE | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 30 | **SF MAINS:** | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
SF	17973		1	3		17973			3		2			
SF	13214	PANELS P1 & P2	3				13214				4	SERVES BOTTOM SECTION OF PNL		
SF	15493	(SERVICE DISC)	5		200			15493		200	6	(SERVICE DISC)		
			7								8			
			9								10			
			11								12			
D	4160	EXISTING LOAD	13	2		6656			2		14	EXISTING LOAD	2496	D
D	4160		15		50		6656			30	16		2496	D
D	600	EXISTING LOAD	17	1	20			1600	1	20	18	EXISTING LOAD	1000	D
D	600	EXISTING LOAD	19	1	20	1600			1	20	20	EXISTING LOAD	1000	D
D	600	EXISTING LOAD	21	1	20		1600		1	20	22	EXISTING LOAD	1000	D
		SPACE	23					1000	1	20	24	EXISTING LOAD	1000	D
		SPACE	25								26	SPACE		
		SPACE	27								28	SPACE		
		SPACE	29								30	SPACE		
	56800	TOTAL			THIS PANEL->	26229	21470	18093					TOTAL 8992	
						26229	21470	18093						

LIGHTING(125%) = 11528.75 | RECEPTS<=10000(100%) = 9360.00 | RECEPTS>10000(50%) = 0.00 | RECEPTS TOTAL = 9360.00 | ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 17501.25 | OTHER MOTORS(100%) = 5196.00 | MOTOR TOTAL = 22697.25 | WATER HEATERS(100%) = 5000.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 0.00 | DEDICATED(100%) = 23012.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 65,792.00
TOTAL CONNECTED CURRENT (A): 182.62
TOTAL DEMAND LOAD (VA): 71,598.00
TOTAL DEMAND CURRENT (A) 198.74

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: P1 (EXIST) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: WAREHOUSE | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 42 | **SF MAINS:** YES | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
		SPACE (DO NOT USE)	1								2	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	3								4	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	5								6	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	7								8	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	9								10	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	11								12	SPACE (DO NOT USE)		
L	357	AREA LIGHTS	13	1	20	1069			1	20	14	HIGH BAY LIGHTS	712	L
L	672	WALL PACK EXT. LIGHTS	15	1	20		1028		1	20	16	HIGH BAY LIGHTS	356	L
L	504	OUTSIDE CAN LIGHTS	17	1	20			860	1	20	18	HIGH BAY LIGHTS	356	L
L	1157	SHOW ROOM LIGHTS	19	1	20	1513			1	20	20	HIGH BAY LIGHTS	356	L
L	687	SHOW ROOM LIGHTS	21	1	20		1043		1	20	22	HIGH BAY LIGHTS	356	L
L	890	2ND FLOOR LIGHTS	23	1	20			1246	1	20	24	HIGH BAY LIGHTS	356	L
L	534	2ND FLOOR LIGHTS	25	1	20	1230			1	20	26	HEATING FANS	696	MO
L	257	S. STAIR LIGHTS	27	1	20		613		1	20	28	BATHROOM/OFFICE LTS	356	L
L	120	SIGN LIGHT	29	1	20			480	1	20	30	RECEPT UPSTAIRS	360	R
L	534	TRAINING ROOM	31	1	20	534					32	SPACE		
L	534	TRAINING ROOM	33	1	20		534				34	SPACE		
		SPACE	35								36	SPACE		
		SPACE	37								38	SPACE		
		SPACE	39								40	SPACE		
		SPACE	41								42	SPACE		
X	13627		SF1			13627					SF2			
X	9996	PANEL P2	SF1				9996				SF2			
X	12907		SF1					12907			SF2			
	42776	TOTAL			THIS PANEL->	17973	13214	15493					TOTAL 3904	
						17973	13214	15493						

LIGHTING(125%) = 11528.75 | RECEPTS<=10000(100%) = 9360.00 | RECEPTS>10000(50%) = 0.00 | RECEPTS TOTAL = 9360.00 | ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 17501.25 | OTHER MOTORS(100%) = 5196.00 | MOTOR TOTAL = 22697.25 | WATER HEATERS(100%) = 5000.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 0.00 | DEDICATED(100%) = -3000.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 46,680.00
TOTAL CONNECTED CURRENT (A): 129.57
TOTAL DEMAND LOAD (VA): 52,486.00
TOTAL DEMAND CURRENT (A) 145.69

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: P1 (EXIST) REVISED | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: WAREHOUSE | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 42 | **SF MAINS:** YES | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
		SPACE (DO NOT USE)	1								2	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	3								4	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	5								6	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	7								8	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	9								10	SPACE (DO NOT USE)		
		SPACE (DO NOT USE)	11								12	SPACE (DO NOT USE)		
L	357	AREA LIGHTS	13	1	20	1069			1	20	14	HIGH BAY LIGHTS	712	L
L	672	WALL PACK EXT. LIGHTS	15	1	20		1028		1	20	16	HIGH BAY LIGHTS	356	L
L	504	OUTSIDE CAN LIGHTS	17	1	20			860	1	20	18	HIGH BAY LIGHTS	356	L
L	1157	SHOW ROOM LIGHTS	19	1	20	1513			1	20	20	HIGH BAY LIGHTS	356	L
L	687	SHOW ROOM LIGHTS	21	1	20		1043		1	20	22	HIGH BAY LIGHTS	356	L
L	890	2ND FLOOR LIGHTS	23	1	20			1246	1	20	24	HIGH BAY LIGHTS	356	L
L	534	2ND FLOOR LIGHTS	25	1	20	1230			1	20	26	HEATING FANS	696	MO
L	257	S. STAIR LIGHTS	27	1	20		613		1	20	28	BATHROOM/OFFICE LTS	356	L
L	120	SIGN LIGHT	29	1	20			480	1	20	30	RECEPT UPSTAIRS	360	R
L	534	TRAINING ROOM	31	1	20	534					32	SPACE		
L	534	TRAINING ROOM	33	1	20		534				34	SPACE		
		SPACE	35								36	SPACE		
		SPACE	37								38	SPACE		
		SPACE	39								40	SPACE		
		SPACE	41								42	SPACE		
X	22167		SF1			22167					SF2			
X	17636	PANEL P2	SF1				17636				SF2			
X	16857		SF1					16857			SF2			
	62906	TOTAL			THIS PANEL->	26513	20854	19443					TOTAL 3904	
						26513	20854	19443						

LIGHTING(125%) = 11528.75 | RECEPTS<=10000(100%) = 10000.00 | RECEPTS>10000(50%) = 1090.00 | RECEPTS TOTAL = 11090.00 | ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 17501.25 | OTHER MOTORS(100%) = 5196.00 | MOTOR TOTAL = 22697.25 | WATER HEATERS(100%) = 5000.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 9650.00 | DEDICATED(100%) = 11560.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 66,810.00
TOTAL CONNECTED CURRENT (A): 185.45
TOTAL DEMAND LOAD (VA): 71,526.00
TOTAL DEMAND CURRENT (A) 198.54

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: P2 (EXIST) | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: WAREHOUSE | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 46 | **SF MAINS:** | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
		SPACE	1			1500			3		2		1500	MO
		SPACE	3				1500				4	AIR COMPRESSOR	1500	MO
		SPACE	5					1500		20	6		1500	MO
		SPACE	7								8	SPACE		
		SPACE	9								10	SPACE		
		SPACE	11					540	1	20	12	RECEPT - OFFICE	540	R
R	540	RECEPT - OFFICE	13	1	20	1080			1	20	14	RECEPT - N. WALL	540	R
R	540	RECEPT - SW WALL	15	1	20		900		1	20	16	RECEPT - TEL. BOARD	360	D
R	540	RECEPT - SW WALL	17	1	20			1080	1	20	18	RECEPT - OFFICE	540	R
R	720	RECEPT - OFFICE	19	1	20	1260			1	20	20	RECEPT - OFFICE	540	R
D	180	DED RECEPT - S. WALL	21	1	30		1180		1	20	22	INTRUSION ALARM PANEL	1000	D
D	180	DED RECEPT - S. WALL	23	1	30			1180	1	20	24	WEST SIGN	1000	D
D	720	DED RECEPT - SE WALL	25	1	30G	1080			1	20	26	RECEPT - SALES COUNTER	360	R
R	540	RECEPT - SE WALL	27	1	20G		900		1	20	28	RECEPT - SALES COUNTER	360	R
R	540	RECEPT - NE WALL	29	1	20G			900	1	20	30	RECEPT - MECH ROOM	360	R
R	540	RECEPT - NE WALL	31	1	20G	1540			1	20	32	FIRE ALARM PANEL	1000	D
R	540	RECEPT - EAST WALL	33	1	20G		669		1	20	34	CANOPY LIGHTS	129	L
R	540	RECEPT - EAST WALL	35	1	20G			3040	2		36	WATER HEATER	2500	WH
ML	4667		37	3		7167				30	38		2500	WH
ML	4667	HVAC	39				4847		1	20	40	W. SIGN RECEPT	180	R
ML	4667		41		50			4667	3		42			
		WASH RACK (SPARE)	43	2							44	GAS PUMPS (SPARE)		
			45		30					20	46			
	20121	TOTAL			THIS PANEL->	13627	9996	12907					TOTAL 16409	
						13627	9996	12907						

LIGHTING(125%) = 161.25 | RECEPTS<=10000(100%) = 9000.00 | RECEPTS>10000(50%) = 0.00 | RECEPTS TOTAL = 9000.00 | ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 17501.25 | OTHER MOTORS(100%) = 4500.00 | MOTOR TOTAL = 22001.25 | WATER HEATERS(100%) = 5000.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 0.00 | DEDICATED(100%) = 3900.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 36,530.00
TOTAL CONNECTED CURRENT (A): 101.40
TOTAL DEMAND LOAD (VA): 40,062.50
TOTAL DEMAND CURRENT (A) 111.20

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED

PANEL: P2 (EXIST) REVISED | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **200A MLO**
LOC: WAREHOUSE | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 46 | **SF MAINS:** | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
A	**4000**	**RANGE - KITCHEN (NOTE 1)**	1	**2**		5500			3		2		1500	MO
A	**4000**		3		**50**		5500				4	AIR COMPRESSOR	1500	MO
A	**630**	**REFRIG/RECEPT (NOTE 1)**	5	**1**	**20**			2130		20	6		1500	MO
A	**1200**	**MICROWAVE/HOOD (NOTE 1)**	7	**1**	**20**	1800			**2**		8	**TABLE SAW (NOTE 1)**	**600**	D
R	**1080**	**RECEPTS - OFFICES (NOTE 1)**	9	**1**	**20**		1680			**20G**	10		**600**	D
R	**1080**	**RECEPTS - OFFICES (NOTE 1)**	11	**1**	**20**			1620	1	20	12	RECEPT - OFFICE	540	R
R	540	RECEPT - OFFICE	13	1	20	1080			1	20	14	RECEPT - N. WALL	540	R
R	540	RECEPT - SW WALL	15	1	20		900		1	20	16	RECEPT - TEL. BOARD	360	D
R	540	RECEPT - SW WALL	17	1	20			1080	1	20	18	RECEPT - OFFICE	540	R
R	720	RECEPT - OFFICE	19	1	20	1260			1	20	20	RECEPT - OFFICE	540	R
R	**720**	**RECEPT - W & SOUTH WALL (NOTE 1)**	21	**1**	**20G**		1720		1	20	22	INTRUSION ALARM PANEL	1000	D
D	**2000**	**DED RECEPT - S. WALL (NOTE 1)**	23	**2**				3000	1	20	24	WEST SIGN	1000	D
D	**2000**		25		**30G**	2360			1	20	26	RECEPT - SALES COUNTER	360	R
R	**500**	**DED RECEPT - S. WALL**	27	1	20G		860		1	20	28	RECEPT - SALES COUNTER	360	R
R	**500**	**DED RECEPT - WEST WALL**	29	1	20G			860	1	20	30	RECEPT - MECH ROOM	360	R
R	**500**	**DED RECEPT - WEST WALL**	31	1	20G	1500			1	20	32	FIRE ALARM PANEL	1000	D
R	**500**	**DED RECEPT - N. WALL**	33	1	20G		629		1	20	34	CANOPY LIGHTS	129	L
R	**500**	**DED RECEPT - N. WALL**	35	1	20G			3000	2		36	WATER HEATER	2500	WH
ML	4667		37	3		7167				30	38		2500	WH
ML	4667	HVAC	39				4847		1	20	40	W. SIGN RECEPT	180	R
ML	4667		41		50			5167	**1**	**20G**	42	**DED. RECEPT N.E (NOTE 1)**	**500**	R
D	**1500**	**DED. RECEPT - N. WALL (NOTE 1)**	43	**2**		1500			**1**	**20G**	44	**SPARE**		
D	**1500**		45		**30G**		1500		**1**	**20G**	46	**SPARE**		
	38551	TOTAL			THIS PANEL->	22167	17636	16857					TOTAL 18109	
						22167	17636	16857						

LIGHTING(125%) = 161.25 | RECEPTS<=10000(100%) = 10000.00 | RECEPTS>10000(50%) = 910.00 | RECEPTS TOTAL = 10910.00 | ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 17501.25 | OTHER MOTORS(100%) = 4500.00 | MOTOR TOTAL = 22001.25 | WATER HEATERS(100%) = 5000.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 9650.00 | DEDICATED(100%) = 11560.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 56,660.00
TOTAL CONNECTED CURRENT (A): 157.27
TOTAL DEMAND LOAD (VA): 59,282.50
TOTAL DEMAND CURRENT (A) 164.55

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED
NOTE 1: PROVIDE NEW CIRCUIT BREAKER, SIZE AS INDICATED

PANEL: MDB (EXIST) REVISED | **3** PH | **4** WIRE | **VOLTAGE:** 208Y/120V | **400A**
LOC: WAREHOUSE | **MOUNT:** SURFACE | **FEED:** BOTTOM
TYPE: NEMA 1 | **POLES:** 30 | **SF MAINS:** | **22,000AIC MINIMUM**

LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR P	CIR. BRKR AMP	A	B	C	CIR. BRKR P	CIR. BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
SF	26513		1	3		26513			3		2			
SF	20854	PANELS P1 & P2	3				20854				4	SERVES BOTTOM SECTION OF PNL		
SF	19443	(SERVICE DISC)	5		200			19443		200	6	(SERVICE DISC)		
			7								8			
			9								10			
			11								12			
D	4160	EXISTING LOAD	13	2		6656			2		14	EXISTING LOAD	2496	D
D	4160		15		50		6656			30	16		2496	D
D	600	EXISTING LOAD	17	1	20			1600	1	20	18	EXISTING LOAD	1000	D
D	600	EXISTING LOAD	19	1	20	1600			1	20	20	EXISTING LOAD	1000	D
D	600	EXISTING LOAD	21	1	20		1600		1	20	22	EXISTING LOAD	1000	D
		SPACE	23					1000	1	20	24	EXISTING LOAD	1000	D
		SPACE	25			500			**1**	**20**	26	**ACCESS CONTROL PANEL (NOTE 1)**	500	D
		SPACE	27								28	SPACE		
		SPACE	29								30	SPACE		
	76930	TOTAL			THIS PANEL->	35269	29110	22043					TOTAL 9492	
						35269	29110	22043						

LIGHTING(125%) = 11528.75 | RECEPTS<=10000(100%) = 10000.00 | RECEPTS>10000(50%) = 1090.00 | RECEPTS TOTAL = 11090.00 | ELECTRIC HEAT(100%) = 0.00
LARGEST MOTOR(125%) = 17501.25 | OTHER MOTORS(100%) = 5196.00 | MOTOR TOTAL = 22697.25 | WATER HEATERS(100%) = 5000.00
KITCHEN LOADS(65%) = 0.00 | APPLIANCES(100%) = 9650.00 | DEDICATED(100%) = 31172.00 | MISC(100%) = 0.00

TOTAL CONNECTED LOAD (VA): 86,422.00
TOTAL CONNECTED CURRENT (A): 239.88
TOTAL DEMAND LOAD (VA): 91,138.00
TOTAL DEMAND CURRENT (A) 252.97

NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED
NOTE 1: PROVIDE NEW CIRCUIT BREAKER, SIZE AS INDICATED

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FIRE STATION 60
35100 PACIFIC HIGHWAY SOUTH,
FEDERALWAY, WA 98003

PROJECT # 2015137

BID SET

ISSUE DATE AUGUST 7, 2020

REVISION SCHEDULE		

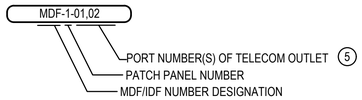
PANEL SCHEDULES

SHEET #
E26.01

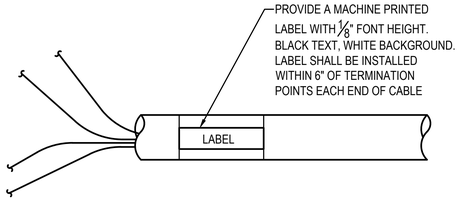
TELECOMMUNICATIONS OUTLET CONSTRUCTION NOTES

1. SEE SECTION 27 2000 FOR TELECOMMUNICATIONS OUTLET TYPE, STYLE, AND COLOR.
2. PROVIDE IVORY TELECOMMUNICATIONS WALL OUTLET WITH IVORY FACEPLATES. TELECOMMUNICATIONS PORTS ON PATCH PANELS LOCATED IN MDF/IDF TO MATCH COLOR OF CABLE TERMINATED ON EACH PORT - COLORS DIFFER BY SYSTEM.
3. PROVIDE A 25 FOOT SERVICE LOOP IN THE ACCESSIBLE CEILING SPACE ATTACHED TO STRUCTURE OR TRUSS/BEAM, UNLESS OTHERWISE NOTED.
4. PROVIDE (2) CAT6 CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATIONS ROOM. PROVIDE THE CAT6 CABLE COLOR AS SPECIFIED IN SECTION 27 2000.
5. STRUCTURED CABLING LABELING/NUMBERING IN ANY GIVEN ROOM STARTS AT THE FIRST CABLE/PORT LOCATION CLOSEST TO THE MAIN ENTRY DOOR OF THE ROOM AND WORKS AROUND THE ROOM CLOCKWISE. FOR EXAMPLE, WAP, CCTV, ACCESS CONTROL AND DATA LOCATIONS - PENDING OWNER'S FINAL VERIFICATION AND EXISTING DEVICES/LABELS CURRENTLY IN PLACE.

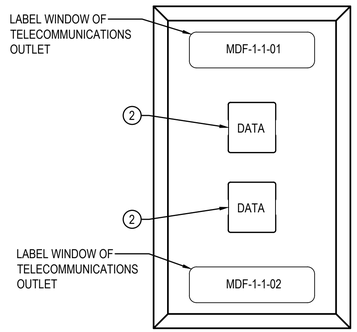
*VERIFY WITH OWNER FOR PREFERRED LABELING INFORMATION



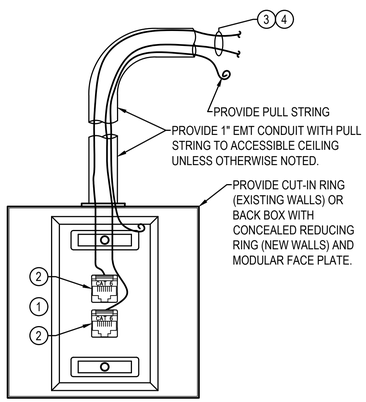
1 TELECOMMUNICATIONS OUTLET LABEL IDENTIFICATION FORMAT
SCALE: DIAGRAMMATIC



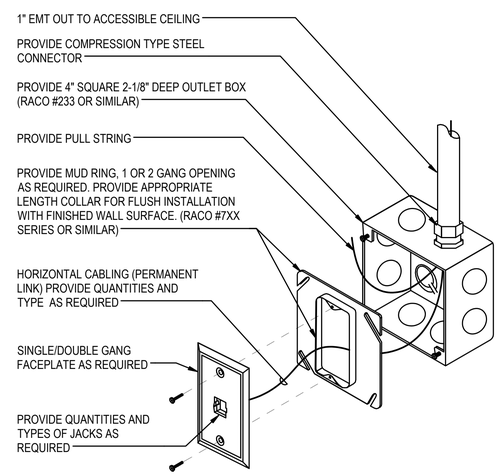
2 TYPICAL CAT6 HORIZONTAL CABLE LABELING
SCALE: DIAGRAMMATIC



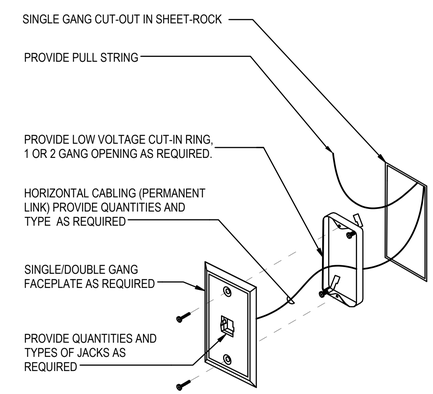
3 TYPICAL TELECOMMUNICATIONS OUTLET LABELING
SCALE: DIAGRAMMATIC



4 TYPICAL TELECOMMUNICATIONS TWO PORT OUTLET
SCALE: DIAGRAMMATIC



5 TYPICAL TELECOMMUNICATIONS OUTLET INSTALLATION NEW WALLS
SCALE: DIAGRAMMATIC



6 TYPICAL TELECOMMUNICATIONS OUTLET INSTALLATION EXISTING WALLS
SCALE: DIAGRAMMATIC

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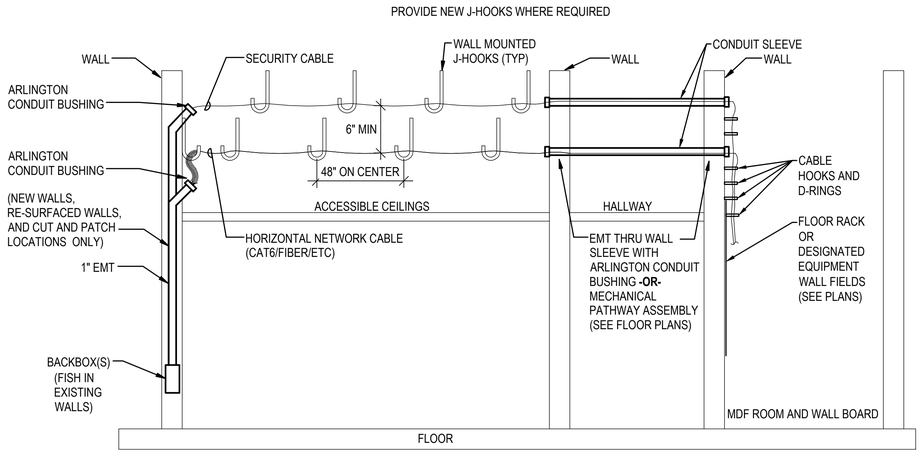
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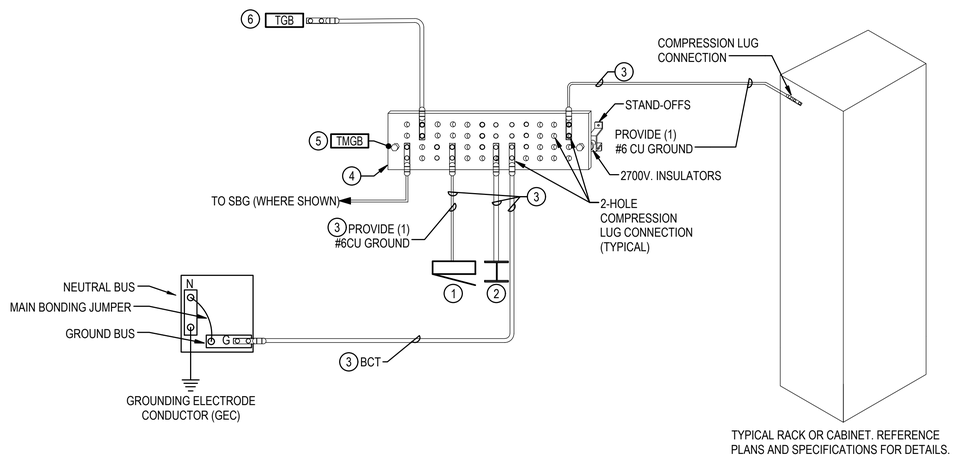
REVISION SCHEDULE

TELECOMMUNICATIONS DETAILS

SHEET #
E71.01



1 J-HOOK AND CABLE PATHWAYS SECTION DETAIL
SCALE: DIAGRAMMATIC



2 TYPICAL TELECOMMUNICATIONS GROUNDING AND BONDING DETAIL
SCALE: DIAGRAMMATIC

CONSTRUCTION NOTES

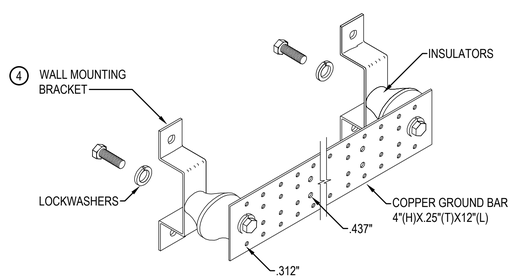
1. PROVIDE CONNECTION TO MAIN PANEL BOARD.
2. PROVIDE BOND CONNECTION TO BUILDING STEEL, SIZED PER FIGURE 6.3.2 (SIZING OF THE TBB) OF TIA-607-B2.
3. PROVIDE COPPER GROUND CONDUCTOR WITH GREEN OUTER JACKET. SIZED AS REQUIRED. REFER TO SPECIFICATION 272000 FOR REQUIREMENTS.
4. MOUNT PLATE ON PLYWOOD BACKBOARD.
5. TELECOMMUNICATION MAIN GROUND BUSBAR 4"(H)X.25"(T)X12"(L)
6. TELECOMMUNICATION GROUND BUSBAR 4"(H)X.25"(T)X12"(L)

TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR SIZE VS LENGTH	
TBB/GE LINEAR LENGTH m (FT)	**TBB/GE SIZE (AWG)**
LESS THAN 4 (13)	6
4-6 (14-20)	4
6-8 (21-26)	3
8-10 (27-33)	2
10-13 (34-41)	1
13-16 (42-52)	1/0
16-20 (53-66)	2/0
20-26 (67-84)	3/0
26-32 (85-105)	4/0
32-38 (106-125)	250 kcmil
38-46 (126-150)	300 kcmil
46-53 (151-175)	350 kcmil
53-76 (176-250)	500 kcmil
76-91 (251-300)	600 kcmil
GREATER THAN 91 (301)	750 kcmil

SCHEDULE NOTES:
1 MINIMUM TBB/GE SHALL BE #6 AWG. THE TBB SHOULD BE SIZED AT 2 KCMIL PER LINEAR FOOT OF CONDUCTOR LENGTH UP TO A MAXIMUM OF 750 KCMIL.

2 THE BCT SHALL BE, AT A MINIMUM, THE SAME SIZE AS THE LARGEST TBB.

3 THE TABLE IS REFERENCED FROM TIA-607-B 6.3.2 TABLE 1.



3 TYPICAL TELECOMMUNICATIONS GROUNDING BAR DETAIL
SCALE: DIAGRAMMATIC

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