ADDENDUM #9
Solicitation #7602848
June 19, 2020

TO ALL BIDDERS OF RECORD:

This Addendum forms a part of the Contract Documents and modifies the Drawings and Project Manual as hereinafter indicated.

DRAWINGS

Architectural
Sheets
- A010
- A030
- D100
- A101
- A600
- A700
- A910

Fire Protection
Sheet
- FP001
- FP100
- FP102

Plumbing
Sheets
- P001
- P100
- P101
- P104
- P105

Mechanical
Sheets
- M000
- M001
- MD100
- MD101
- M100
- M101
- M300

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Electrical
Sheets

- E001
- ED101
- E101
- E102
- FA100

Mechanical/Electrical
Sheets

- ME100
- ME101
- ME102

(THIS COMPLETES ADDENDUM NO. 9)

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THE ROBINSON GREEN BERETTA CORPORATION — ARCHITECTURE, PROJECT MANAGEMENT & INTERIOR DESIGN

CONSULTANTS

BUILDING ENGINEERING RESOURCES, INC. — MECHANICAL, ELECTRICAL & PLUMBING

LIST OF DRAWINGS

REVISION DATE	SHEET #	SHEET NAME
	A000	COVER SHEET
ARCHITECTURAL		
	G001	ABBREVIATION & SYMBOLS
	G002	MATERIAL LIST
	A010	CODE REVIEW
	A030	CONSTRUCTION TYPES
	D100	BUILDING 1 DEMOLITION PLAN-ALTERNATE #3
	A100	BUILDING 1 FLOOR PLAN-BASE BID
	A101	BUILDING 1 FLOOR PLAN-ALTERNATE #3
	A600	REFLECTED CEILING PLAN - BUILDING 1-ALTERNATE #3
	A700	INTERIOR ELEVATIONS - BUILDING 1-ALTERNATE #3
	A910	DOOR & FRAME SCHEDULE/ROOM FINISH SCHEDULE-ALTERNATE #3
FIRE PROTECTION		
	FP001	LEGEND, NOTES & DETAILS - FIRE PROTECTION-ALTERNATE #3
	FP100	BUILDING 1 DEMOLITION PLAN - FIRE PROTECTION-ALTERNATE #3
	FP102	BUILDING 1 NEW FLOOR PLAN - FIRE PROTECTION-ALTERNATE #3
PLUMBING		
	P001	LEGEND, NOTES, DETAILS & SCHEDULES - PLUMBING-ALTERNATE #3
	P100	BUILDING 1 DEMOLITION PLAN SANITARY, WASTE & VENT- PLUMBING-ALTERNATE #3
	P101	BUILDING 1 DEMOLITION PLAN DOMESTIC WATER - PLUMBING-ALTERNATE #3
	P104	BUILDING 1 NEW FLOOR PLAN SANITARY, WASTE & VENT - PLUMBING-ALTERNATE #3
	P105	BUILDING 1 NEW FLOOR PLAN DOMESTIC WATER - PLUMBING-ALTERNATE #3
MECHANICAL		
	M000	MECHANICAL LEGENDS, ABBREVIATIONS AND NOTES-ALTERNATE #3
	M001	MECHANICAL SCHEDULES-ALTERNATE #3
	MD100	BUILDING 1 DUCTWORK DEMOLITION PLAN-ALTERNATE #3
	MD101	BUILDING 1 PIPING DEMOLITION PLAN-ALTERNATE #3
	M100	BUILDING 1 DUCTWORK RENOVATION FLOOR PLAN-ALTERNATE #3
	M101	BUILDING 1 PIPING RENOVATION PLANS-ALTERNATE #3
	M300	MECHANICAL DETAILS-ALTERNATE #3
ELECTRICAL		
	E001	ELECTRICAL-LEGEND, NOTES & SCHEDULES -ALTERNATE #3
	ED101	BUILDING 1 ELECTRICAL-DEMOLITION PLAN-ALTERNATE #3
	E101	BUILDING 1 ELECTRICAL-LIGHTING PLAN-ALTERNATE #3
	E102	BUILDING 1 ELECTRICAL-POWER PLAN-ALTERNATE #3
	FA100	BUILDING 1 FIRE ALARM PLAN-ALTERNATE #3
MECHANICAL/ELECTRICAL		
	ME100	BUILDING 1-KEY NOTES, SCHEDULES, DETAILS, DUCTWORK AND PIPING PLANS-ALTERNATE #3
	ME101	BUILDING 1 -DUCTWORK AND PIPING PLANS-ALTERNATE #3
	ME102	MECHANICAL & ELECTRICAL SPECIFICATIONS-ALTERNATE #3

THE SCOPE OF WORK ON DRAWINGS ME100, ME101 AND ME102 SHALL ONLY BE USED IF ALTERNATE #3 IS NOT ACCEPTED AND TO DISREGARD THE REMAINING MEP ALTERNATE #3 DRAWINGS

1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

RIARNG- WARWICK LATRINE MODERNIZATION - 6356

STATUS: CONSTRUCTION DOCUMENTS

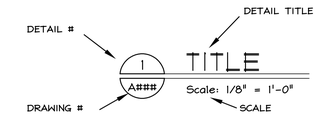
DATE: 10 NOVEMBER 2017

ABBREVIATIONS

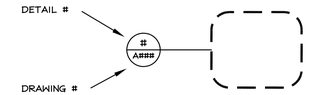
AFF	ABOVE FINISHED FLOOR
AF	ABOVE FLOOR
ACP	ACCESS PANEL
ACC	ACCESSORY, ACCESSORIES
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
ADH	ADHESIVE
ADJ	ADJUSTABLE
AGG	AGGREGATE (S)
A/C	AIR CONDITIONING
AVB	AIR/VAPOR BARRIER
AC	ALTERNATING CURRENT
ALT	ALTERNATE
ALUM	ALUMINUM
AT	ALUMINUM THRESHOLD
ANC	ANCHOR (S) ANCHORAGE (S)
AB	ANCHOR BOLTS
∠, ∠	ANGLE
ANOD	ANODIZED
ANT	ANTENNA (E)
APP	APPROVED, APPROVAL
APPROX	APPROXIMATE
AD	AREA DRAIN
@	AT
ATT	ATTACH, ATTACHMENT
ALD	AUTOMATIC LOUVER DAMPER
AVE	AVENUE
AVG	AVERAGE
BTB	BACK TO BACK
BM	BEAM
BMK	BENCH MARK
BG	BEARING
BPL	BEARING PLATE
BIT	BITUMINOUS
BC	BOTTOM OF CURB
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BF	BOTTOM OF FOOTING
BO	BOTTOM OF
BOC	BOTTOM OF CURB
BS	BOTH SIDES
BW	BOTH WAYS
BOT	BOTTOM
BKT	BRACKET
BK	BRICK
BRG	BRIDGING, BRIDGE (D)
BTU	BRITISH THERMAL UNIT
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CK	CHALK
CBT, CAB	CABINET
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN
CLG	CEILING
CTR	CENTER
CL, ℄	CENTERLINE
CTC	CENTER TO CENTER
C	CENTIGRADE (CELSIUS)
CT	CERAMIC TILE
CLF	CHAIN-LINK FENCE
CB	CHALKBOARD
CH, [	CHANNEL
CM	CENTIMETER
CV	CHECK VALVE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CKT	CIRCUIT
CO	CLEANOUT
CLR	CLEAR, CLEARANCES
CLS	CLOSURE
CW	COLD WATER
C,COL	COLUMN
COMP	COMPRESS (ED),(ION),(IBLE)
CONC	CONCRETE (PORTLAND CEMENT)
CMU	CONCRETE MASONRY UNITS
COND	CONDUIT
CX	CONNECTION
CONT	CONTINUOUS
CLL	CONTRACT LIMIT LINE
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CFL	COUNTERFLASHING (S)
CS	COUNTERSINK, COUNTERSUNK
CU	CUBIC
CU	COPPER
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CF	CUBIC FEET
CU IN	CUBIC INCH
CY	CUBIC YARD
CYL	CYLINDER, CYLINDRICAL
DPR	DAMPER
DP	DAMPPROOF (ED),(ING)
DL	DEAD LOAD
DB	DECIBEL
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DIA or Φ	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DC	DIRECT CURRENT
DCX	DISCONNECT (ION)
DPN	DISPENSER
DPL	DISPOSAL, DISPOSABLE
DR	DOOR
DBL	DOUBLE
DH	DOUBLE-HUNG
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DN	DOWN
DS	DOWNSPOUT
D	DRAIN, DRAINAGE LINE
DI	DRAIN INLET
DT	DRAIN TILE
DWG,DRWG	DRAWING (S)
DF	DRINKING FOUNTAIN
DMH	DROP MANHOLE
EIFS	EXT. INSUL FINISH SYSTEM
EW	EACH WAY
EA	EACH
EFF	EFFICIENCY
E, ELECT.	ELECTRIC, ELECTRICAL
EP	ELECTRIC PANEL
EWC	ELECTRIC WATER COOLER
EL, ELEV	ELEVATION
ENC	ENCLOSE, ENCLOSURE
EQ, =	EQUAL (TO)
EQP, EQUIP	EQUIPMENT
EXH	EXHAUST
ED	EXHAUST DUCT
EF	EXHAUST FAN
EH	EXHAUST HOOD
EXIST.	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ET	EXTENDED, EXTENSION
EPS	EXTRUDED POLYSTYRENE
EXT	EXTERIOR
FAB	FABRICATE
FO	FACE OF
FS, FOS	FACE OF STUD
FAS	FASTEN, FASTENER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FNDR	FEMININE NAPKIN DISPENSER UNIT
FNDP	FEMININE NAPKIN DISPOSAL UNIT
FF	FINISH FLOOR
FBD	FIBERBOARD
FGL	FIBERGLASS
FIL	FILLER (S)
FIN	FINISH
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FTR	FINNED TUBE RADIATION
FA	FIRE ALARM STATION
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC, FXC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FH	FIRE HYDRANT
FMN	FIRE MAIN
FP	FIREPROOF (ING)
FR	FIRE RESISTANT
FRC	FIRE-RESISTANT COATING
FRT	FIRE-RETARDANT TREATMENT
FSP	FIRE STANDPIPE
FXD	FIXED
FXT	FIXTURE
FLG	FLASHING
FHCS	FLAT HEAD COUNTERSUNK SCREW
FHWS	FLAT HEAD WOOD SCREW
FLX	FLEXIBLE
FLR	FLOOR, FLOORING
FD	FLOOR DRAIN
FGR	FLOOR GRILLE (REGISTER)
FLU	FLUORESCENT
FL	FLOW LINE
FT	FOOT, FEET
FC	FOOTCANDLES
FTG	FOOTING
FWK	FORMWORK
FND, FDN	FOUNDATION (WALL)
FR	FRAME (D),(ING)
FBO	FURNISHED BY OTHERS
F & I	FURNISH & INSTALL
FURR	FURRING
FUT	FUTURE
FAI	FRESH AIR INTAKE
FRP	FIBER REINFORCED PLASTIC
FSL	FUSIBLE LINK
GAL	GALLON (S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GALV	GALVANIZED
GI	GALVANIZED IRON
GST	GALVANIZED STEEL
G	GAS
GKT	GASKET (ED)
GAV	GATE VALVE
GA	GAUGE
GLB	GLASS BLOCK
GMU	GLAZED MASONRY UNITS
GB	GRAB BARS
GRD	GRADE, GRADING
GRT	GRANITE
GVL	GRAVEL
GR	GRILLE
GD	GROUND (ED)
GT	GROUT (ED)
GYP. BD.	GYPSUM WALLBOARD
GWB	GYPSUM WALLBOARD
GYL	GYPSUM LATH
GFRC	GLASS FIBER REINF. CONC.
GPL	GYPSUM PLASTER
HH	HAND HOLD
HA	HANGER
HBD	HARDBOARD
HC	HANDICAP(PED)
HDN	HARDENER (ED)
HDW	HARDWARE
HWD	HARDWOOD
HD	HEAD
HDR	HEADER
HDE	HEAT DETECTOR
HTG	HEATING
HAC	HEATING & AIR CONDITIONING
H & V	HEATING & VENTILATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HVC	HEATING, VENTILATING, COOLING
Hz	HERTZ (CYCLES PER SECOND)
HPL	HIGH PRESSURE LAMINATE
HV	HIGH VOLTAGE
HWY	HIGHWAY
HO	HOLD OPEN
HCWD	HOLLOW CORE WOOD
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HK	HOOK (S)
HR	HOUR
HOR, HORZ.	HORIZONTAL
HP	HORSEPOWER
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
HWC	HOT WATER, CIRCULATOR
HWF	HOT WATER FAUCET
HWH	HOT WATER HEATING
HWT	HOT WATER TANK
HYD	HYDRANT
IN	INCH
INCL	INCLUDING (ED),(SIVE)
INFO	INFORMATION
ID	INSIDE DIAMETER
INSL	INSULATE (D),(ATION)
IMC	INSULATED METAL CLAD
INT	INTERIOR, INTERNAL
INV	INVERT
IE	INVERT ELEVATION
IDM	ISOLATE DISC. METALS
JAN	JANITOR
JT	JOINT
JF	JOINT FILLER
JS	JOINT SEALER
J	JOIST
JCT	JUNCTION
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
K	KIP
KD	KNOCK DOWN
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAT	LATERAL
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LBS, #	POUND'S
LCC	LEAD COATED COPPER
LDR	LEADER
LH	LEFT-HAND
LWOD	LESS WIDTH OF DOOR
LIN	LINEN
LP	LIGHT PROOF
LS	LIMESTONE
LTL	LINTEL
LL	LIVE LOAD
LW	LIGHT WEIGHT
LP	LOW PRESSURE
LOC	LOCATION
LKR	LOCKER
LG	LONG, LENGTH
LONG	LONGITUDINAL
L or LH	LONG SPAN STEEL JOIST
LVR	LOUVER
LV	LOW VOLTAGE
MB	MACHINE BOLT
MH	MANHOLE
MFD,MFR'D	MANUFACTURED
MFR	MANUFACTURER
MFG	MANUFACTURING
MBL	MARBLE
MK	MARK
MAS	MASONRY
MCJ	MASONRY CONTROL JOINT
MJ	MASONRY JOINT
MO	MASONRY OPENING
MTL	MATERIAL (S)
MAX	MAXIMUM
MC	MEDICINE CABINETS
MED	MEDIUM
MDF	MEDIUM DENSITY FIBERBOARD
MBR	MEMBER
MMB,MEMB	MEMBRANE
MTL	METAL
METC	METAL CLAD
ME	METAL EDGE
MRE	METAL ROOF DECK(ING)
M	METER (S)
MEZZ	MEZZANINE
MIC	MICROPHONE
MM	MILLIMETER
MWK	MILLWORK
MIN	MINIMUM
MIR	MIRROR
MIS	MISCELLANEOUS
MXV	MIXING VALVE
MOD	MODULAR
MLD	MOLDING
MDO	MEDIUM DENSITY OVERLAY
MT	MOUNT (ED), (ING)
MHT	MOUNTING HEIGHT
MUL	MULLION
NL	NAILABLE
NAT	NATURAL (FINISH)
NRC	NOISE-REDUCTION CO-EFFICIENT
NOM	NOMINAL
NC	NON-CORROSIVE
NIC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
NO,#	NUMBER
OC	ON-CENTER
K,L,H	OPEN-WEB STEEL JOIST
OPG, OPNG	OPENING
OPR	OPERATOR
OPP	OPPOSITE
O.H.,OPH	OPPOSITE HAND
OHS	OPPOSITE HAND SIMILAR
OSB	ORIENTED STRAND BOARD
OAE	OR APPROVED EQUAL
OZ	OUNCE (S)
OD	OUTSIDE DIAMETER
OA	OVERALL
OH	OVERHEAD
OHB	OVERHEAD BRACED
OHD	OVERHEAD DOOR
OF	OWNER FURNISHED
OFI	OWNER FURNISHED & INSTALLED
OFCI	OWNER FURNISH-CONTRACTOR INSTALL
OX	OXYGEN
PT	"P" TRAP
PNT, PTD	PAINT, PAINTED
PR	PAIR
PNL	PANEL
PAR, //	PARALLEL
PBD	PARTICLE BOARD
PTN	PARTITION
PCT or %	PERCENT (AGE)
PF	PERFORATED (D)
PERIM	PERIMETER
PERP, ⊥	PERPENDICULAR
P	PHASE
PLAS	PLASTER
PL	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNU	PNEUMATIC
POL	POLISH (ED)
PE	PORCELAIN ENAMEL
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PIC	POURED INPLACE CONCRETE
PDF	POWER DRIVEN FASTENER (ING)
PCC	PRECAST CONCRETE
PREFAB	PREFABRICATED
PRN	PREFINISH (ED)
PRF	PREFORMED
PM	PREMOLDED
PMTL	PRESSED METAL
PVT	PRIVATE
PROJ	PROJECT
PL, ℙ	PROPERTY LINE
PUB	PUBLIC
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PU	PULL, PULL CHAIN
PP	PUMP
PD	PUMP DISCHARGE
PIV	POST INDICATOR VALUE
PC	PHYSICALLY CHALLENGED
PVC	POLY VINYL CHLORIDE
QT	QUARRY TILE
RW	RACEWAY
RAD	RADIATOR, RADIATION
RA, R	RADIUS
R	RISER
RL	RAIL, RAILING
RR	RAILROAD
RECP	RECEPTACLE
REF	REFERENCE
RFL	REFLECTIVE
RE	REFER TO
REG	REGISTER
RFC	REINFORCE (D) (ING)
RC	REINFORCED CONCRETE
REQ,REQ'D	REQUIRE(ED), REQUIREMENTS
R & S	REMOVE AND SALVAGE
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND REINSTALL
RESIL	RESILIENT
RTN	RETAIN (ED) (ER) (ING)
RVS, REV	REVERSE (SIDE)
REV	REVISE (ED), REVISION
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RH	RIGHT HAND
ROW	RIGHT-OF-WAY
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RU	RUBBER
RP	RUSTPROOF (ING)
SDL	SADDLE
SAN	SANITARY (SEWER)
SCN	SCREEN
SLT	SEALANT
SLR	SEALER
STG	SEATING
SEC	SECTION
SEL	SELECT (OR)
SPT	SEPTIC TANK
SVC	SERVICE
SSK	SERVICE SINK
STH	SHEATHING
SHT	SHEET
SH	SHELF, SHELVING
S & R	SHELF & ROD
SHR	SHOWER RECEPTOR
SIM	SIMILAR (TO)
SH	SINGLE HUNG
SK	SINK
SKL	SKYLIGHT
SL	SLEEVE
SDE, SD	SMOKE DETECTOR
SMV	SMOKE-VENTING HATCH
SCWD	SOLID CORE WOOD
SSM	SOLID SURFACE MATERIAL
SP	SOUNDPROOF
SPK	SPEAKER
SPEC	SPECIFICATIONS
SPF	SPECIFIED
SPR	SPRINKLER
SQ, ◻	SQUARE
SF	SQUARE FOOT (FEET)
SY	SQUARE YARD
STAG	STAGGER
SS	STAINLESS STEEL
STD	STANDARD
ST	STEEL
STIFF	STIFFENER
STN	STONE
STO	STORAGE
SD	STORM DRAIN
ST	STREET
S	STRUCTURAL
SIP	STRUCTURAL INSULATED PANEL
SUP	SUPPORT
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTIC TILE
SUSP CEIL	SUSPENDED CEILING
SYM	SYMMETRY (ICAL)
SYS	SYSTEM
TB	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
TMP, TEMP	TEMPER (ED)
TCV	TEMPERATURE CONTROL VALVE
TP	TEST PIT
TZ	TERRAZZO
THM	THERMOMETER
THS	THERMOSTAT
TH	THICK, THICKNESS
THR	THRESHOLD
TCL	TIME CLOCK
TOL	TOLERANCE
TG, T & G	TONGUE AND GROOVE
TO	TOP OF
TOC	TOP OF CONCRETE / CURB
TOS, TS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSFORMER
TR	TRANSOM
TJI	TRUSS JOIST 'I' SECTION
TP	TURNING POINT
TYP	TYPICAL
TOM	TOP OF MASONRY
UHF	ULTRAHIGH FREQUENCY
UF	UNDERFLOOR (DUCT)
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UH	UNIT HEATER
UK	UNIT KITCHEN
UV	UNIT VENTILATOR
UAS	UPWARD ACTING SECTIONAL
VJ	V-JOINTED
VA	VACUUM
VAB	VACUUM BREAKER
VB	VAPOR BARRIER
VP	VAPORPROOF
VNR	VENEER
VE	VENT
VR, VTR	VENT THROUGH ROOF
VTR	VENTILATOR
VER, VERT	VERTICAL
VHF	VERY HIGH FREQUENCY
VLF	VERY LOW FREQUENCY
VI	VIBRATION ISOLATOR
VNL	VINYL
VCT	VINYL COMPOSITION TILE
VB	VINYL BASE
VF	VINYL FABRIC
VQT	VINYL QUARTZ TILE
VS	VINYL SHEET
VT	VINYL TILE
VIT	VITREOUS
VC	VITRIFIED CLAY
V	VOLT (AGE)
VWC	VINYL WALLCOVERING
WN	WAINSCOT
WH	WALL-HUNG
WHY	WALL HYDRANT
WTW	WALL TO WALL
W	WASTE
WR	WASTE RECEPTACLES
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WP	WATERPROOF (ED), (ING)
WPT (WP)	WORK (ING) POINT
WST	WEATHERSTRIPPING
WE	WEEPHOLE
WWF	WELDED WIRE FABRIC
WID	WIDE, WIDTH
WF,WF	WIDE-FLANGE BEAM
WG	WIRE GLASS
WM	WIRE MESH
W, W/	WITH
W/IN	WITHIN
WO, W/O	WITHOUT
WD	WOOD
WB	WOOD BASE
WBM	WOOD BEAM
WBO	WORK BY OTHERS
WBOR	WORK BY OWNER
WBT	WORK BY TENANT
WK	WORK
WKRM	WORKROOM
WI	WROUGHT IRON
XR	X-RAY
Y	WYE FITTING
Z	ZONE
ZC	ZINC COATED
ZS	ZEE STUD

SYMBOLS

TITLE MARK



DETAIL MARK



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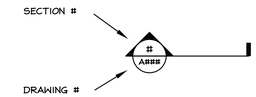
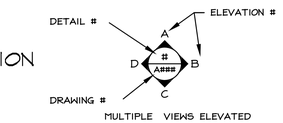
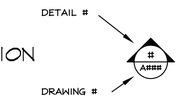


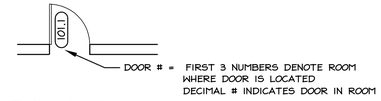
INTERIOR ELEVATION



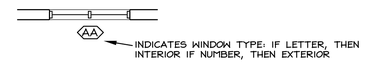
EXTERIOR ELEVATION



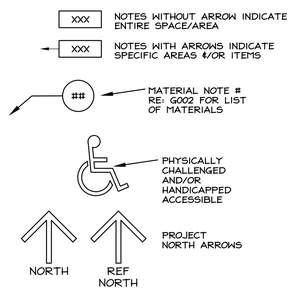
DOOR TAG



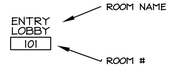
WINDOW TAG



WORK NOTES



ROOM TAG



WALL CONSTRUCTION TAG

RE: DRAWING SHEET A030 FOR
DESCRIPTION, DETAIL & MATERIAL

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Certification

Drawn by TPL

Checked by RJJ

Revised on

1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

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Drawing Status

CONSTRUCTION
DOCUMENTS

Issued On 10 NOVEMBER 2017

Sheet Contents

ABBREVIATION &
SYMBOLS

Project Number. 6356

Drawing No. 1 G001

Sheet of

Site Work

20 LAYER OF COMPACTED STONE/GRAVEL 6" U.N.O.
21 FINISH GRADE
21A PAVING (CONCRETE OR ASPHALT) (Re: Civil Dwgs)
21B EARTH / LANDSCAPE / BEDDING (Re: Civil Dwgs)
22 not used
23 FENCING
23A GALV CHAIN LINK FENCING SYSTEM
23B ORNAMENTAL FENCING SYSTEM (Re: Civil Dwgs)
24 BELOW GRADE DRAINAGE SYSTEM
24A FOUNDATION 6" DIA HIGH DENSITY PERFORATED POLYETHELYENE PIPING W/ FILTER FABRIC WRAP
24B BELOW SLAB 6" DIA HIGH DENSITY PERFORATED POLYETHELYENE PIPING W/ FILTER FABRIC WRAP
24C FILTER FABRIC
24D SURFACE CLEANOUT IN 18" SQ X 6 CONC. PAD (Re: Civil Dwgs)
25 UNIT PAVERS FINISH SYSTEM

Concrete

30 CAST IN PLACE CONCRETE FOUNDATION SYSTEM (Re: Struct. Drwgs)
30A CONCRETE FOOTING (Re: Struct. Drwgs)
30B CONCRETE WALL (Re: Struct. Drwgs)
30C CONCRETE PIER (Re: Struct. Drwgs)
30D REINFORCING BAR (Re: Struct. Drwgs)
31 CAST IN PLACE CONCRETE SLAB (Re:Struct. Drwgs or as noted)
31A CONCRETE SLAB ON GRADE w/ W.W.F.
31B CONCRETE FLOOR SLAB w/ REINFORCING (Re: Struct. Drwgs)
31C CONCRETE MUD SLAB 3" MIN THICKNESS U.N.O.
31D CONCRETE SLAB ON METAL DECK (Re: Struct Drwgs)
32 CAST IN PLACE CONCRETE SIDEWALK w/ W.W.F (Re:Site Drwgs or as noted)
32A CONCRETE PAD w/ W.W.F. (Re:Site Drwgs or as noted)
33 PRECAST CONCRETE STRUCTURAL SYSTEM (Re: Struct. Drwgs)
33A PRECAST CONCRETE PLANK (Re: Struct. Drwgs)
34 CAST IN PLACE CONCRETE STRUCTURAL SYSTEM (Re: Struct. Drwgs)
34A CAST IN PLACE WALL (Re: Struct. Drwgs)
34B CAST IN PLACE BEAM (Re: Struct. Drwgs)
34C CAST IN PLACE COLUMN (Re: Struct. Drwgs)
35 ACCESSORIES
35A FIBROUS EXPANSION JOINT MATERIAL, 3/8" R-2 Min U.N.O.
36 GROUT, NON-SHRINK, NON METALLIC, 6000 PSI (Re: Struct. Drwgs)
37 ARCHITECTURAL PRECAST CONCRETE (Re: Struct. Drwgs)
38 GFRC GLASS FIBER REINFORCED CONCRETE SYSTEM
39 NOT USED

Masonry

40 BRICK
40A BRICK TYPE/ COLOR #1
40B BRICK TYPE/ COLOR #2
41 CMU
41A 4" CMU
41B 6" CMU
41C 8" CMU
41D 10" CMU
41E 12" CMU
41F 2" SOAP
42 GLAZED CMU
43 GROUND FACED CMU
44 STONE VENEER SYSTEM
44A SYNTHETIC
44B DOLOMITIC LIMESTONE
45 MASONRY ACCESSORIES
45A VENEER TIES @ 16" o.c.e.w. U.N.O.
45B VENEER TIES, SINGLE POST, @ 16" o.c.e.w. U.N.O.
45C HORIZONTAL JOINT REINFORCING @ 16" o.c. vert. U.N.O.
45D TIE / STRAP SECURED TO BEAM OR COLUMN @ 16" o.c. U.N.O.
45E ROD REINFORCING, 1/8" DIA Min. U.N.O.
45F ANCHOR STRAPS, 1/8" Min THICKNESS x 1" U.N.O.
45G DOVE TAIL ANCHOR SLOTS, CAST IN CONCRETE BACKUP @ 16" o.c. U.N.O.
45H BOND BREAKER, 30# FELT Min. U.N.O.
45J COMPRESSIBLE FILLER STRIP, 1/2" Min THICKNESS U.N.O.
45K EXTRUDED RUBBER CONTROL JOINT
45L WEEP HOLES, RECTANGULAR, PLASTIC, INSECT RESISTANT SPACING @ 24" O.C. @ BRICK AND 32" O.C. @ CMU U.N.O.
45M DRAINAGE NETTING SYSTEM VARY DEPTHS 6" TO 8" IN EACH 30" LENGTH
46 MASONRY LINTEL SYSTEM
46A CMU BOND BEAM w/ REINF. BARS Size as noted or Re: Struct. Drwgs
47 FLASHING SYSTEMS
47C COPPER LAMINATED FABRIC
47M SELF ADHERING MEMBRANE FLASHING
47S STAINLESS STEEL
48 GROUT CELL/VOIDS SOLID w/ 2500 PSI Min U.N.O. Re: Struct or as noted
48A PROVIDE W/ REINFORCING BAR #5 Min U.N.O. Re: Struct or as noted
49 not used

Metal

50 STRUCTURAL STEEL (Re: Structural Drwgs)
50B BEAM
50C COLUMN
50G GIRDER
50J JOIST
50T TRUSS
51 METAL DECK
51A ROOF DECK
51B FLOOR DECK (Re: Structural Drwgs)
51C CLOSURE ANGLE (POUR STOP) (Re: Structural Drwgs or as noted)
52 not used
53 MISCELLANEOUS SHAPES (size/shape as noted or Re: Struct. Drwgs)
53A ANGLE
53B BENT PLATE
53C CHANNEL
53D PLATE
53E TUBE
53F PIPE
53G SUPPORT ROD ALTHREAD ROD
53H ANCHOR BOLT
53J NELSON STUDS (size/shape as noted or Re: Struct. Drwgs)
54 LIGHT GAUGE FRAMING SYSTEM (Re: Struct or as noted)
54A STUD (Re: Struct or as noted)
54B JOIST / RAFTER (Re: Struct or as noted)
54C TRUSS SYSTEM (Re: Struct or as noted)
54D BRIDGING (Re: Struct or as noted)
55 MISCELLANEOUS METAL ITEMS, SIZE/SHAPE AS NOTED (shop painted)
55A METAL LADDER SHAPE & SIZE AS NOTED (GALV or shop primed/field painted)
55B GALV BOLLARD, 4000 PSI CONC. FILLED (GALV or shop primed/field painted)
55C METAL RAILING SYSTEM, SIZE AS NOTED
55E ROOF BLOCKING ATTACHMENT BOLTS THROUGH STEEL 3/8"x @ 12" O.C. w/ 2" WASHERS AT WOOD (size as required)
55F ROOF BLOCKING ANCHOR BOLTS INTO CMU or MASONRY SYSTEM 3/8"x 6" (PLUS HOOK) @ 24" O.C. w/ 2" WASHER (size as required or as noted)
55H UNISTRUT SUPPORT SYSTEM
56 PREFABRICATED EXPANSION JOINT SYSTEM
56A FLOOR
56B WALL
56C CEILING
57 METAL STAIR SYSTEM, PAINTED, CONCRETE PAN FILLED
57A PIPE RAILING, HANDRAIL 1-1/4" I.D. U.N.O.
57B STRINGER 3/8" PLATE MIN U.N.O. (shape & size as noted)
57C STRINGER 'C' CHANNEL 12 X 20.7 MIN U.N.O. (shop primed/field painted)
57D METAL GUARD RAILING SYSTEM
57E WOVEN WIRE PANEL SYSTEM 2"x2" MAX OPNG U.N.O.

Wood and Plastic

60 WOOD STUD &/or JOIST
60A 2 x 4 @ 16" o.c. U.N.O.
60B 2 x 6 @ 16" o.c. U.N.O.
60C 2 x 8 @ 16" o.c. U.N.O.
60D 2 x 10 @ 16" o.c. U.N.O.
60E 2 x 12 @ 16" o.c. U.N.O.
61 WOOD BLOCKING (size &/or spacing as shown or noted)
62 PRESSURE TREATED WOOD, 2 x MIN (size &/or spacing as shown or noted)
62A ROOF PERIMETER EDGE 5 1/2" MIN. (depth of insulation plus underlayment)xCont
62B FIRE RETARDANT TREATED WOOD (FRT) (size as noted)
62C WOOD CANT 3"x3"xCONT, U.N.O.
63 STRUCTURAL WOOD MEMBERS (Re: Struct. or as noted)
63A WOOD COLUMN
63B WOOD BEAM
63C LAMINATED TIMBER
63D LAMINATED VENEER LUMBER
63F FLITCH PLATE BEAM
63J WOOD JOIST
63T WOOD TRUSS (Re: Struct. or as noted)
64 PLYWOOD, EXTERIOR GRADE
64A 5/8" EXTERIOR GRADE
64B 3/4" EXTERIOR GRADE
64C 3/4" FRT, EXTERIOR GRADE
64D 3/4" MDO
64E 3/4" MDO W/ EDGE BAND
64M 3/4" MARINE GRADE
64R ROOF SHEATHING T & G
65 INTERIOR BOARD
65A 1/2"PLYWOOD
65B 3/4" PLYWOOD
65C 3/4" T & G PLYWOOD
65D PARTICLE BOARD (size as noted)
65E FLOORING UNDERLAYMENT (size as noted)
66 MILLWORK CUSTOM DESIGN (Species/finish as noted and/or specified)
66A WOOD FINISH, STAINED
66B WOOD FINISH, PAINTED
67 WOOD TRIM, INTERIOR
67A TRIM, STAINED
67B TRIM, PAINTED
68 EXTERIOR WOOD FINISH
68A SIDING
68B CLAPBOARD
68C TRIM (Species/finish as noted and/or specified)
68D PREFINISHED SIDING (finish & size as noted)
68F PLASTIC EXTERIOR TRIM WOOD (finish & size as noted)
69 SOLID SURFACE

Thermal & Moisture Protection

70 ROOFING SYSTEM (coordinate w/roof construction type(s))
70A MEMBRANE (by roofing manufacturer)
70B BATTEN STRIP, METAL (by roofing manufacturer)
70C CAP FLASHING (by roofing manufacturer)
70D WALL FLASHING (by roofing manufacturer)
70E DECK UNDERLAYMENT
70F DECK PROTECTION BOARD (by roofing manufacturer)
70G ROOF CRICKET STRUCTURE/SYSTEM
70H CANT STRIP
70J ROOF WALKING PADS (by roofing manufacturer)
70K ROOF VAPOR BARRIER SYSTEM COORDINATE DESIGN & TYPE w/ ROOFING MFR.
70L ROOFING EXPANSION JOINT ASSEMBLY/SYSTEM
70M COMPRESSIBLE FOAM ROD, 1" NOMINAL DIA. U.N.O.
70N FIBERGLASS ROOF SHINGLE SYSTEM, HURRICANE NAILING PATTERN
71 WEATHER/WATERPROOFING SYSTEMS
71A DAMPPROOFING MASTIC
71B AIR BARRIER (COMMERCIAL GRADE)
71C AIR/VAPOR BARRIER SYSTEM
71D VAPOR BARRIER (10 MIL POLY MIN U.N.O.)
71E FELT PAPER 30# MIN U.N.O.
71F ROOFING, WATERPROOF UNDERLAYMENT MEMBRANE (VALLEY, RIDGE, RAKE & EAVE) NON SLIP, 40 MIL. SELF ADHESIVE MEMBRANE
71G PARAPET CAP UNDERLAYMENT MEMBRANE, 40 MIL SELF ADHESIVE MEMBRANE
71H GUTTER LINER MEMBRANE, WATERPROOF, 30 MIL min. U.N.O.
71J BENTONITE WATERPROOFING PANELS & DRAINAGE SYSTEM
71K WATERPROOFING, 60 MIL SELF ADHESIVE MEMBRANE W/PROTECTION BOARD
71L FILTER FABRIC & DIMENSIONAL SYSTEM (HYDROSTATIC RELIEF)
71M IRONITE WATERPROOFING (FOR ELEVATOR PIT INTERIOR)
72 INSULATION, THERMAL, SOUND AND FIRE PROTECTION
72A 1" R- 5 min. EXTRUDED POLYSTYRENE INSULATION
72B 2" R-10 min. EXTRUDED POLYSTYRENE INSULATION
72C 2 1/8" +/- R-12 min. EXTRUDED POLYSTYRENE High R-value CAVITY INSULATION
72D 2" R-11 MIN. POLYISOCYANURATE INSULATION (ROOF INSULATION)
72F BATT INSULATION, R-13 (3 5/8" Thickness)
72G BATT INSULATION, R-21 (6" Thickness)
72H BATT INSULATION, R-24 (8" Thickness)
72J BATT INSULATION, R-30 (10" Thickness)
72K BATT INSULATION, R-36 (12" Thickness)
72L BATT INSULATION, W/CLASS I FOIL FACING VAPOR BARRIER
72M MINERAL WOOL INSULATION &/or FIRE SAFING UL RATED FOR INSTALLATION SHOWN
72N SOUND ATTENUATION INSULATION SIZE AS NOTED &/OR INDICAED
72P SPRAY ON FIRE PROTECTON SYSTEM, U.L. RATED AS INDICATED
72R RIGID FIRE PROTECTION SYSTEM, U.L. RATED AS INDICATED
72S SPRAY APPLIED THERMAL/ACOUSTICAL INSULATION
72T CONCEALED MINERAL WOOL FIBER Non-Combustible SEMI-RIGID INSULATION BOARD R-VALUE &/or THICKNESS AS NOTED
72Z LOW EXPANSION POLYURETHANE FOAM INSULATION. 2#/DENSITY CLASS I FINISH FIRE RATING. FILL VOID OR AS INDICATED.
73 SEALANT, INTERIOR, EXTERIOR &/OR FIRE RATED SYSTEMS
73A BACKER ROD/ROPE
73B 3/8" +/- SHIM SPACE DRAFT STOP W/LOW EXPANSION POLYURETHANE FOAM
73C SEALANT w/ BACKER ROD /ROPE
73D SEALANT & TERMINATION BAR
73E FIRE CAULKING SYSTEM, UL RATED AS INDICATED FOR APPLICATION SHOWN (as noted)
74 TRIMS & FASCIAS, PARAPET CAPS, COPPINGS, MISC. METAL FLASHINGS (color as noted)
74A ZINC COATED COPPER 16oz MIN U.N.O.
74B COPPER 20oz MIN U.N.O.
74C HOLD DOWN CLEATS, CONTINUOUS
74D GALV METAL, SIZE AS NOTED
74E GALV METAL, THRU SHEATHING FLASHING
74M SELF ADHERING MEMBRANE FLASHING
75 PREFINISHED METAL (ALUMINUM) SYSTEMS
75A PREFINISHED STANDING SEAM METAL ROOF SYSTEM
75B PREFINISHED, CONCEALED FASTENER METAL PANELS, SIDING SYSTEM
75C SUBFRAMING (GIRTS, CHANNELS, STUDS, JOIST, etc) (size or noted or shown)
75D SOFFIT PANEL SYSTEM PREFINISHED, CONCEALED FASTENER (size as noted or shown)
75E LANCED/VENTED PANELS (10sq IN/LF)
75F PREFINISHED TRIM PIECES
75G METAL CORNICE SYSTEM & SUPPORTS
75H PREFINISHED, CONCEALED FASTENER, INSULATED METAL PANEL SYSTEM
75J COMPOSITE PANEL SYSTEM (size as noted or shown)
76 PREFINISHED METAL (ALUMINUM)
76A FASCIA, PARAPET CAP, GRAVEL STOP
76B FLASHING &/or COUNTER FLASHING, REGLETS (profile & size as noted or shown)
76C CONTINUOUS HOLD DOWN CLIPS (size/color/finish as noted or shown)
76D METAL GUTTER SYSTEM
76E DOWNSPOUT, RECTANGULAR, CORRUGATED
77 EXTERIOR INSULATION FINISH SYSTEM (EIFS)
77A EIFS, 1" RIGID INSULATION
77B EIFS, 2" RIGID INSULATION
77C EIFS, 3" RIGID INSULATION
77D MESH, STANDARD DUTY
77E MESH , HEAVY DUTY
77G SYSTEM WEEPS/FLASHING TERMINATION
78 MISCELLANEOUS ITEMS/MATERIALS/ACCESSORIES
78A ROOF ACCESS HATCH

Doors & Windows

80 DOOR
80A INSULATED METAL CLAD (size/type as noted in door schedule)
80B HOLLOW METAL DOOR
80C WOOD DOOR, SOLID CORE
80E OVERHEAD UPWARD ACTING SECTIONAL
80F OVERHEAD COILING
80G OVERHEAD COILING COUNTER
80H OVERHEAD COILING GRILLE
80J ACOUSTICAL DOOR SYSTEM
81 DOOR FRAME/JAMB
81A HOLLOW METAL FRAME
81B ACOUSTICAL METAL FRAME
81C DOOR GUIDES, BETWEEN JAMB MOUNTING
81D DOOR GUIDES, FACE OF JAMB MOUNTING
82 ACCESS DOOR
82A ACCESS DOOR (U.L. rated in rated assemblies)
82B FLOOR ACCESS DOOR
82C CEILING ACCESS DOOR
83 WINDOW SYSTEMS
83A ALUMINUM WINDOW (size & glazing as noted in window schedule)
83H HOLLOW METAL FRAME (shop primed / field paint)
83S STEEL FRAME WINDOW (size & glazing as noted in window schedule)
83W WOOD WINDOW stained U.N.O. (size & glazing as noted in window schedule)
84 ALUMINUM STOREFRONT &/or CURTAIN WALL WINDOW SYSTEMS
84A ALUMINUM STOREFRONT SYSTEM (size & glazing as noted in window schedule)
84B ALUMINUM STOREFRONT SYSTEM DOOR
84C ALUMINUM CURTAIN WALL SYSTEM (size & glazing as noted in window schedule)
84D ALUMINUM WINDOW, OPERABLE, IN STOREFRONT/CURTAIN WALL SYSTEM
84E ALUMINUM SILL TRIM 0.060 min. U.N.O. (color to match 84A or 84C)
84F ALUMINUM TRIM &/or FLASHING 0.040 min. U.N.O (color to match 84A or 84C)
84G ALUMINUM SUB SILL &/or HEAD RECEIVER (color to match 84A or 84C)
84H CURTAIN WALL STRUCTURAL ATTACHMENT (design by curtain wall mfr)
84J MISC WINDOW EXTENSION TRIM (match window finish)
85 GLAZING (size & type as noted in window schedule)
85A SINGLE PANE (tempered where required by code)
85B INSULATED (tempered where required by code)
85C SPANDREL (tempered where required by code)
85D SPANDREL, INSULATED
85E FIRE RATED
85F WIRE
85G BULLET RESISTANT (with manufacturer etched ID)
85L LAMINATED
87 HARDWARE (Refer Door Schedule)
87A THRESHOLD, SET IN MASTIC
87B THRESHOLD, SET IN GROUT
87C RAIN HOOD/SHIELD
87D KEY CABINET, SURFACE MOUNTED, 100 KEY MIN
87E KNOX BOX; PER LOCAL FIRE DEPT. REQUIREMENTS, RECESS MOUNTED

Finishes

90 WALL BOARD (as noted or shown, Re: Construction Types)
90A 5/8" TYPE 'X' GYP. BD.
90B 1/2" TYPE 'X' GYP. BD.
90C 1/2" TILE BACKER BD.
91 SHEATHING BOARD
91A 5/8" TYPE 'X' FIBERGLASS FACED (water resistant) GYPSUM SHEATHING
91B 1/2" TYPE 'X' FIBERGLASS FACED (water resistant) GYPSUM SHEATHING
91C 1/2" CEMENT BOARD
92 METAL STUD (size & type to match construction type required)
92A 4"x 18 GAUGE @ 16" o.c. U.N.O. (as noted or shown, Re: Construction Types)
92B 6"x 18 GAUGE @ 16" o.c. U.N.O.
92C 2"x 2" x CONT x 20 GAUGE CLIP ANGLE U.N.O.
92D 7/8" FURRING CHANNEL @ 16" o.c. U.N.O.
92E 1/2" RESILIENT FURRING CHANNEL @ 16" o.c. U.N.O.
92F 2" ZEE STUD @ 24" O.C. horiz. U.N.O. (as noted or shown, Re: Construction Types)
92G 2"x 20 GAUGE STRAP
93 DRYWALL ACCESSORIES
93A CASING BEAD
93B CORNER BEAD
93C CONTROL JOINT
93J J BEAD
93L L BEAD
94 not used
95 CEILING, SUSPENDED
95A LAY-IN TILE
95B 5/8" TYPE 'X' GYP. BD. W/ CONCEALED SUSPENSION SYSTEM
95C GYPSUM BOARD
96 FLOOR FINISH
96A TILE, CERAMIC or PORCELAIN (Re: Finish Schedule/Reflected Ceiling Plan)
96B SHEET FLOORING
96C CARPET
96D VCT
96E RUBBER TILE (Re: Finish Schedule)
96F TERRAZZO
96H ATHLETIC: SYNTHETIC
96J ATHLETIC: WOOD
96K AEROBIC/DANCE: WOOD
96L EPOXY FLOOR FINISH
96M RUBBER TREADS &/or NOSING
96N BRASS ANGLE @ TILE EDGES
96P STONE (Re: Finish Schedule)
97 WALL FINISH
97A TILE, CERAMIC or PORCELAIN (size & shape as noted)
97B TILE TRIM PIECE
97C VINYL WALL COVERING
97D PAINT
97E TUB/SHOWER ENCLOSURE PANEL
97F PLASTIC / LAMINATE / CORK PANELS
97G FIBERGLASS REINFORCED PANELS (FRP)
97H WALL PROTECTION (Re: Finish Schedule)
98 BASE (match floor finish material)
98A TILE, COVE U.N.O.
98B VINYL
98C CARPET
98D WOOD
98E RUBBER
98F EPOXY COVE

Specialties

100 TOILET PARTITION, FLOOR MOUNTED, OVERHEAD BRACED
100A URINAL SCREEN
100B PARTITION, DOOR 24" WIDE
100C PARTITION, DOOR 34" WIDE
101 TOILET ACCESSORIES (Re: Toilet Accessory Schedule)
102 MISCELLANEOUS SPECIALTIES
102A FIRE EXTINGUISHER
102E PACKAGE PASS THRU UNIT
102F FLAGPOLE
102G TACKBOARD
102H CHALKBOARD
102K WHITE BOARD (Re: Color Schedule)
102L PROJECTION SCREEN
102M MAILBOX UNIT
102N METAL SHELVING
103 WOVEN WIRE PARTITION SYSTEM (For layout Re: Drwgs)
103A GATE, SWING
103B GATE, SLIDING
104 ARCHITECTURAL EXTERIOR LOUVER (For size, depth, type Re:Drwgs)
104A SUB SILL
105 METAL LOCKER SYSTEM (For size & depth Re: Drwgs)
106 SIGNAGE (For size & type Re: Drwgs)
106A SIGNAGE, INTERIOR
106B SIGNAGE, EXTERIOR
107 OPERABLE WALL PARTITION SYSTEM
107A HEAD TRACK ASSEMBLY (As shown or detailed)
107B TRACK SUPPORT STRUCTURE (size as noted & shown)
107C POCKET DOOR

Equipment

110 PROJECT UNIQUE EQUIPMENT (Re: Equipment Schedule)
111 KITCHEN EQUIPMENT RESTAURANT/COMMERCIAL (Re: Equipment Schedule)
112 RESIDENTIAL KITCHEN EQUIPMENT
112A REFRIGERATOR
112B UNDER COUNTER REFRIGERATOR
112C OVEN
112D COOKTOP
112E EXHAUST HOOD
112F MICROWAVE
112G DISHWASHER
112H RANGE
113 TRASH REMOVAL SYSTEM
113A COMPACTOR
113B CHUTE
113C ROOF VENT/RELIEF
113D DUMPSTER
114 PARKING EQUIPMENT
114A TICKET DISPENSER
114B CARD READER
114C GATE
114D ATTENDANT BOOTH
115 ATHLETIC EQUIPMENT
116 LOADING DOCK EQUIPMENT
116A DOCK BUMPER
116B DOCK SEAL
116C DOCK SHELTER
116D DOCK LEVELER, PIT MOUNT
116E WORK LIGHT
116F IMPACT DOOR
117 not used

Furnishings

120 FLOOR GRILLE w/ EDGE TRIM (Re: Furnishings Drwgs)
120A FLOOR GRILLE (SURFACE, SET IN TILE)
120B WALK OFF CARPET MAT
121 RESIDENTIAL CABINETRY, PREFINISHED, PREFABRICATED
121A BACKSPLASH, 4" U.N.O.
121B FINISHED END PANEL, FACE
121C HARDWARE, PULLS
121D OPEN SHELF, (NO DOOR PANEL)
121E COUNTERTOP & EDGE
121F END SPLASH
122 not used
123 not used
124 not used
125 WINDOW TREATMENT/COVERING
125A BLINDS VERTICAL
125B BLINDS HORIZONTAL
125C CURTAINS (Re: Furnishings Drwgs)
125D SHADES

Division 13 Special Construction

130 PREMANUFACTURED METAL BUILDING SYSTEM
130A STRUCTURAL FRAME
130B WIND FRAMING COLUMN
130C PURLIN OR GIRTS
130E METAL PANEL, CONCEALED FASTENERS, PREFINISHED
130F METAL PANEL, LINER SYSTEM, PREFINISHED
130G TRIM SYSTEM

Conveying Systems

140 ELEVATOR
140A DOOR FRAME SYSTEM
140B DOOR SYSTEM
140C EQUIPMENT
140D ACCESSORIES (Position Indicator, Call Button, etc.)
140E HOIST BEAM
140F SILL PIECE
140G RAIL SUPPORT BEAM
141 not used
142 ESCALATOR
142A GUARD RAIL, GLAZED
142B GUARD RAIL, METAL
142C MISC. TRIM &/OR CLOSURES
143 not used

Mechanical

150 PLUMBING FIXTURES (Re: Plumbing Drwgs)
150A PIPING
150B MISC. ITEM
151 SPRINKLER SYSTEM (Re: Fire Protection Drwgs)
152 STANDPIPE SYSTEM (Re: Fire Protection Drwgs)
153 not used
154 not used
155 HVAC EQUIPMENT &/or ITEM (Re: Mechanical Drwgs)
155A UNIT HEATER
155B BASE BOARD
155C CABINET UNIT
155D DUCTWORK
156 HVAC LOUVER (Re: Mechanical Drwgs)

Electrical

160 ELECTRICAL ITEM (Re: Electrical Drwgs)
160A LIGHTSWITCH
160B RECEPTACLE POWER, DATA &/or COMMUNICATION
161 MAIN ELECTRICAL DISTRIBUTION SYSTEM
162 CIRCUIT PANEL
163 not used
164 not used
165 SECURITY SYSTEM EQUIPMENT
165A CAMERA
165B CARD SWIPE, READER, etc.
165C KEY PAD (Re: Electrical Drwgs)
166 not used

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1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

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Project
RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

541 AIRPORT ROAD, WARWICK, RI 02886

Drawing Status
CONSTRUCTION DOCUMENTS

Issued On 10 NOVEMBER 2017

Sheet Contents
MATERIAL LIST

Project Number. 6356
Drawing No. G002
Sheet of

CODE DATA

I. BUILDING & Fire CODE DATA

RHODE ISLAND STATE BUILDING CODES

SBC-01-2013	BUILDING CODE	IBC-2012 plus RI Amendments 2013 07 01
SBC-02-2013	RESIDENTIAL CODE	IRC-2012 plus RI Amendments 2013 07 01
SBC-03-2013	PLUMBING CODE	IPC-2012 plus RI Amendments 2013 07 01
SBC-04-2013	MECHANICAL CODE	IMC-2012 plus RI Amendments 2013 07 01
SBC-05-2014	ELECTRIC CODE	NFPA 2014 plus RI Amendments 2014 07 01
SBC-08-2013	ENERGY CONSERVATION CODE	IECC-2012 plus RI Amendments 2013 07 01
SBC-19-2010	FUEL GAS CODE	IFGC-2012 plus RI Amendments 2013 07 01

RI ACCESSIBILITY REGULATIONS
SBC-1 IBC-2012 Chapter 11;
ICC/ANSI A117.1 2009 plus RI Amendments 2010 07 01
AMERICANS w/ DISABILITIES ACT (ADA - 2010)

SRC-01-2002 RI State Rehabilitation Building & Fire Code for Existing Buildings & Structures 2002 05 01

RHODE ISLAND FIRE SAFETY CODE (RIFSC - 2013)

RHODE ISLAND FIRE LAWS (RIFL)
TITLE 23, CHAPTERS 28.1 - 28.39

RULES & REGULATIONS PROMULGATED BY the Board of Appeals & Review
SECTIONS 1 THRU 15

RHODE ISLAND UNIFORM FIRE CODE (RIUFC - 2012)
NFPA 1-2012 plus RI AMENDMENTS

RHODE ISLAND LIFE SAFETY CODE (RILSC - 2012)
NFPA 101-2012 plus RI AMENDMENTS

ADDITIONAL APPLICABLE NFPA STANDARDS
NFPA 10 2013 PORTABLE FIRE EXTINGUISHERS
NFPA 13 2013 INSTALLATION OF SPRINKLER SYSTEMS
NFPA 14 2013 STANDPIPES
NFPA 72 2010 NATIONAL FIRE ALARM CODE PLUS RI AMENDMENTS
NFPA 220 2012 STANDARD OF TYPES OF BUILDING CONSTRUCTION
NFPA 701 1999 STANDARD METHOD OF FIRE TESTS FOR FLAME PROPAGATION OF TEXTILES

A. OCCUPANCY & USE (IBC CHAPTERS 3 & 4)

EXISTING BUILDING w/ PRIMARY BUSINESS USE w/ SECONDARY ASSEMBLY USE.
RENOVATION SCOPE OF WORK WITHIN BUSINESS AREA.,

B. CONSTRUCTION TYPES & SEPARATION REQUIREMENTS - CHAPTER 5

NON-SEPARATED MIXED USE IF SPRINKLERED, 0 HR RATING BETWEEN USES REQUIRED PER IBC TABLE 508.3.3

CONSTRUCTION TYPE: IIA* (IBC TABLE 503) II(III) NFPA 220

*IBC CONSTRUCTION TYPE REDUCED FROM IB TO IIA PER 403.3.1 (2)

BUILDING ELEMENT	RATING IN HOURS	
	IBC (table 601) IIA	NFPA 220 (table 4.1.1) II(III)
STRUCTURAL FRAME	1	1
BEARING WALLS		
EXTERIOR	1	1
INTERIOR	1	1
NON BEARING WALLS AND PARTITIONS EXTERIOR	0*	0
NON BEARING WALLS AND PARTITIONS INTERIOR	0	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	1	1
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	1	1

*IBC TABLE 602 (>30' = 0)

D. FIRE RESISTANCE-RATED CONSTRUCTION
-STAIR & ELEVATOR SHAFTS WILL BE 2HR RATED MASONRY CONSTRUCTION
-SHAFTS CONNECTING 4 LEVELS OR MORE WILL BE 1HR RATED CONSTRUCTION w/ SPRINKLERS AT ALTERNATING LEVELS.
-EXIST ACCESS CORRIDORS WILL NOT BE RATED PER IBC ----- & NFPA 38.3.6.1(3)

E. INTERIOR FINISHES
-CLASS B OR BETTER FINISHES WILL BE PROVIDED IN ALL STAIRS, ELEVATORS, CORRIDORS & LOBBIES PER IBC TABLE 803.5 & NFPA 38.3.3.2.1

F. FIRE PROTECTION
1. AUTOMATIC FIRE SUPPRESSION - NFPA 13
2. FIRE ALARM SYSTEM
RI UNIFORM FIRE CODE 13.7 & 13.8 & NFPA 72 RI LIFE SAFETY CODE REQUIRES A FIRE ALARM SYSTEM.

G. OCCUPANCY LOADS

1. OCCUPANCY LOAD TYPES

	IBC TABLE 1004.1.2	NFPA 101 TABLE 7.3.1.2
BUSINESS	100 SF./PERSON GROSS	100 SF./PERSON
ASSEMBLY (UNCONCENTRATED)	15 SF./PERSON GROSS	15 SF./PERSON

2. OCCUPANCY LOAD PER FLOOR

BUILDING 1	AREA (GROSS)	OCCUPANCY
BUSINESS	23,099 GSF	231 OCCUPANTS
ASSEMBLY	5,876 GSF	392 OCCUPANTS
	28,975 GSF	623 OCCUPANTS

H. EGRESS REQUIREMENTS

1. LENGTH OF TRAVEL - NFPA 101 TABLE 12.1.6 & SECTION 12.2.6 - IBC TABLE 1016.1

B BUSINESS (w/ SPRINKLER SYSTEM)
IBC 300 LF
NFPA 101 300 LF

2. COMMON PATH - NFPA 101 TABLE A.7.6 - IBC SECTION 1014.3

B BUSINESS (w/ SPRINKLER SYSTEM)
IBC 100 LF
NFPA 101 100 LF

DEAD END CORRIDOR - NFPA 101 TABLE A.7.6 - IBC 1017.3

B BUSINESS (w/ SPRINKLER SYSTEM)
IBC 50 LF
NFPA 101 50 LF

3. MEANS OF EGRESS - IBC Section 1005.1 & 1018.4

NUMBER AND WIDTH REQUIRED

DOOR WIDTH (w/ SPRINKLER SYSTEM)
IBC 0.2"/PERSON (32" MIN. CLEAR WIDTH)
NFPA 101 0.2"/PERSON (32" MIN. CLEAR WIDTH)
STAIR WIDTH (w/ SPRINKLER SYSTEM)
IBC 0.3"/PERSON (48" MIN. CLEAR WIDTH FOR ACCESSIBLE)
NFPA 101 0.3"/PERSON (44" MIN. CLEAR BETWEEN GUARDS)

TOTAL EXITS REQUIRED, IBC TABLE 1019.1 = 2 EXITS PER FLOOR

EGRESS WIDTHS REQUIRED, (MORE STRINGENT OF ABOVE)

DOORS:
TOTAL WIDTH REQUIRED FOR DOORS = .2 x 384 PEOPLE = 76.8 IN.
TOTAL WIDTH PROVIDED FOR DOORS = 66 IN.
STAIRS:
TOTAL WIDTH REQUIRED FOR DOORS = .3 x 384 PEOPLE = 115.2 IN.
TOTAL WIDTH PROVIDED FOR DOORS = 96 IN.

I. PLUMBING FIXTURE ANALYSIS (BASED ON IBC chapter 29; Table 2902.1; IPC TABLE 403.1)

BUSINESS - BASED ON 231 OCCUPANTS

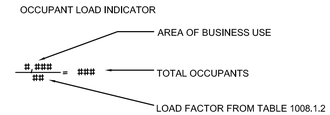
	FIXTURES	CODE REQUIREMENT				PROJECT DESIGN PROVIDED			
			MALE	FEMALE	TOTAL	MALE	FEMALE	UNISEX	TOTAL
BUILDING 1	WATER CLOSETS	1/25 (1ST 50) 1/50	6		6	4	6	1	11
	URINALS	NOT MORE THAN 50%				5	NA	0	5
	LAVATORIES	1/40 (1ST 80) 1/80	4		4	5	5	1	11
	DRINKING FOUNTAINS	1/100			3				(EX.) 2
	SERVICE SINK	1			1				1

ASSEMBLY - BASED ON 392 OCCUPANTS

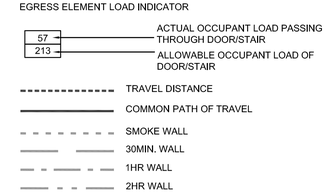
	FIXTURES	CODE REQUIREMENT			
			MALE	FEMALE	TOTAL
BUILDING 1	WATER CLOSETS	1/75 (M) 1/40 (F)	3	5	8
	URINALS	NOT MORE THAN 50%			
	LAVATORIES	1/200 (M) 1/150 (F)	1	2	3
	DRINKING FOUNTAINS	1/500			1
	SERVICE SINK	1			1

KEY

OCCUPANT LOAD INDICATOR



EGRESS ELEMENT LOAD INDICATOR



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1 ADDENDUM #7 2020 05 29
2 ADDENDUM #9 ALT.#3 CLARIFICATIONS 2020 06 19

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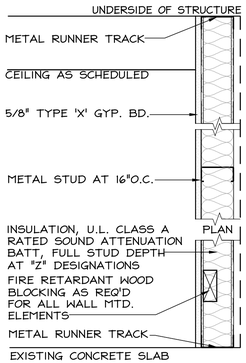
Sheet Contents

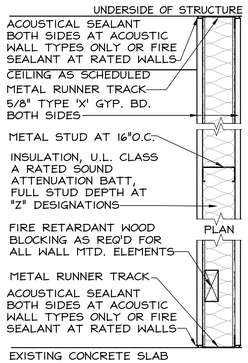
CODE REVIEW

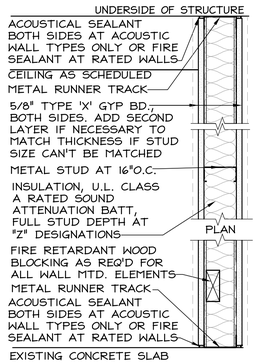
Project Number. 6356

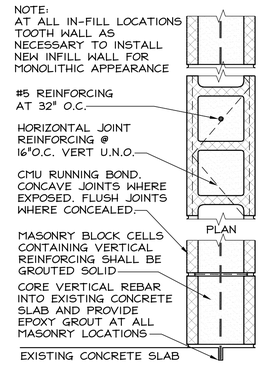
Drawing No. A010

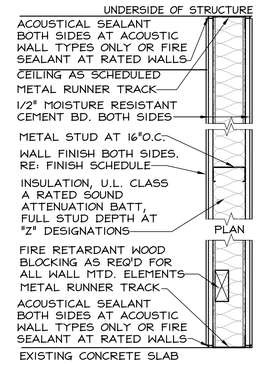
Sheet of











A2 2 1/2" MTL STUDS

A3 3 5/8" MTL STUDS

A6 6" MTL STUDS

C2 or C2 F1 2 1/2" MTL STUDS

C3 or C3 F1 3 5/8" MTL STUDS

C6 or C6 F1 6" MTL STUDS

'F1' DESIGNATION INDICATES:
1 HR FIRE RATED U.L. U419
SOUND RATINGS:
STC 40 (C3) STC 49 (C3Z)

E or E F1 MATCH MTL STUDS

MATCH EXISTING WALL THICKNESS.
MATCH FIRE RATING IF APPLICABLE

NO RATING REQUIRED STC 49

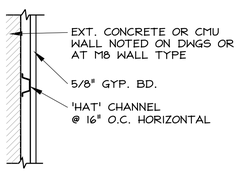
M8 8" CMU

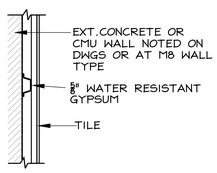
1 HOUR RATING REQUIRED U.L. U906 STC 49

M8 F1 8" CMU

S3 3 5/8" MTL STUDS

SHOWER PARTITIONS





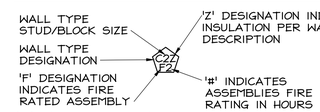
R1 7/8" MTL 'HAT'

R2 TILE WALL

1 / A030 INTERIOR WALL CONSTRUCTION TYPES

Scale: 1 1/2" = 1'-0"

INTERIOR WALL DESIGNATIONS:



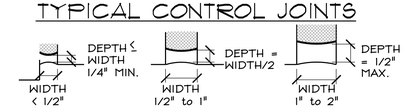
"M" INDICATES MASONRY WALL
"CL" INDICATES PROTECTED COLUMN ASSEMBLY - SEE COLUMN FIREPROOFING NOTES THIS SHEET

EXAMPLE - WALL "A2"
"A" - WALL TYPE
"2" - STUD THICKNESS

EXAMPLE - WALL TYPE "M4"
"M" - MASONRY WALL
"4" - CMU THICKNESS

METAL STUDS	WOOD STUDS	MASONRY WALLS
1 = 1 5/8" STUDS	3 = 2 X 3 STUDS	2 = 1 5/8" SOAP
2 = 2 1/2" STUDS	4 = 2 X 4 STUDS	4 = 4" BLOCK
3 = 3 5/8" STUDS	6 = 2 X 6 STUDS	6 = 6" BLOCK
4 = 4" STUDS		8 = 8" BLOCK
6 = 6" STUDS		10 = 10" BLOCK
		12 = 12" BLOCK

TYPICAL CONTROL JOINTS



GENERAL NOTES:

1. ALL GYPSUM SHEATHING/WALL BOARD IS TYPE 'X'.
2. PROVIDE METAL STUD GAUGE AS RECOMMENDED BY STUD MFG. FOR WALL LIVE LOAD OF 7 psf FOR HEIGHT OF THE UNBRACED WALL VERTICAL SPAN. MAXIMUM DEFLECTION 1/360 OF THE SPAN.
3. FOR NON-LOAD BEARING WALLS THAT SEAL TO ROOF STRUCTURE ABOVE, PROVIDE SUITABLE STUD TRACK TO ALLOW FOR MINIMUM ROOF DEFLECTION OF 1" WITHOUT TRANSFERING LOAD TO METAL STUDS RE: STRUCTURAL DWGS FOR MORE STRINGENT DEFLECTION INFORMATION. (NOT REQUIRED @ PERIMETER EXTERIOR WALLS UNLESS NOTED OTHERWISE)
4. HOLD BOTTOM OF GWB @ 1/4" ABOVE CONCRETE FLOOR TYPICAL (TO PREVENT MOISTURE WICKING)
5. PROVIDE TYPE 'X' MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL TOILET ROOMS, SPRINKLER ROOMS AND JANITOR CLOSETS UNLESS NOTED OTHERWISE.
6. PROVIDE 20 GA METAL STUDS MIN. AT CEMENT BOARD WALLS & WALLS TO RECEIVE STONE VENEER.
7. PROVIDE FIRE RATED CAULKING AT TOP OF ALL FIRE RATED WALLS THAT SEAL TO UNDERSIDE OF STRUCTURE. (i.e. BETWEEN METAL DECK FLUTES.)
8. ALL EXPOSED INTERIOR MASONRY WALLS TO HAVE 1" BULLNOSE CORNERS @ EXTERIOR CORNERS AND WINDOW/DOOR JAMBS UNLESS NOTED OTHERWISE.
9. STC RATINGS FOR WALL CONSTRUCTION TYPES ARE BASED ON USG CORPORATION SELECTOR GUIDE TO SOUND-RATED PARTITIONS (SA100).
10. ALL WALL SYSTEM 'R' & 'U' VALUES ARE BASED ON"
    -6" METAL STUD
    -8" NORMAL WEIGHT CMU
    -8" NORMAL WEIGHT CONCRETE
11. ALL VAPOR BARRIERS ARE TO BE 10MIL POLY MIN. U.N.O.

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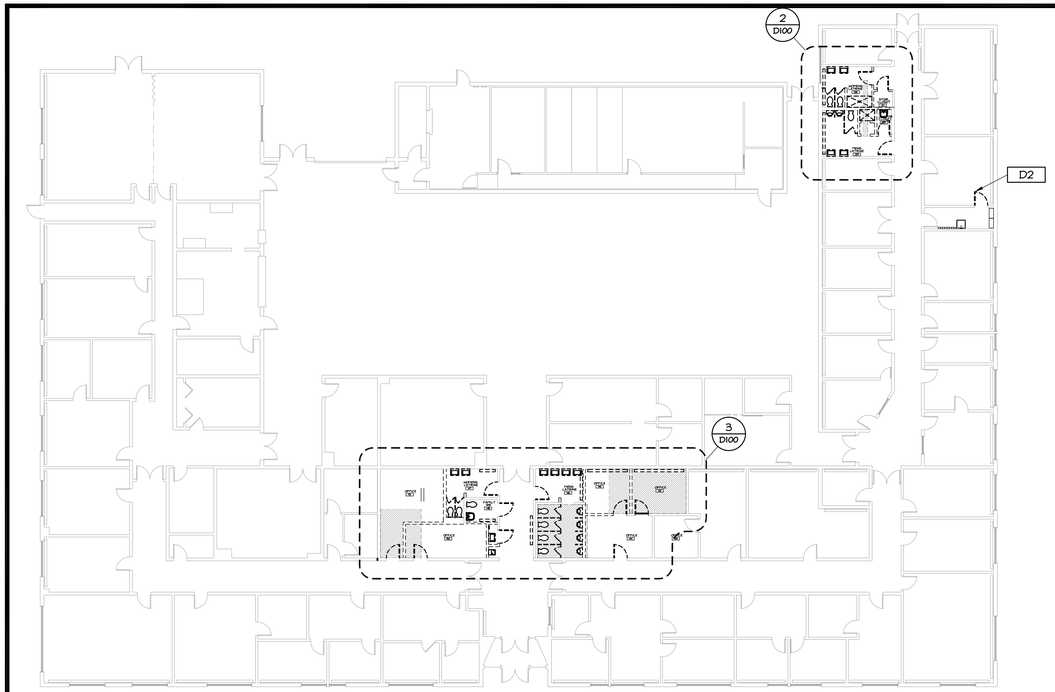
Sheet Contents

CONSTRUCTION TYPES

Project Number. 6356

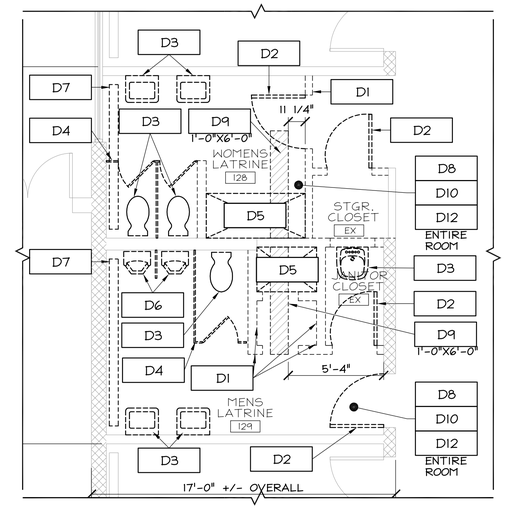
Drawing No. A030 2

Sheet of



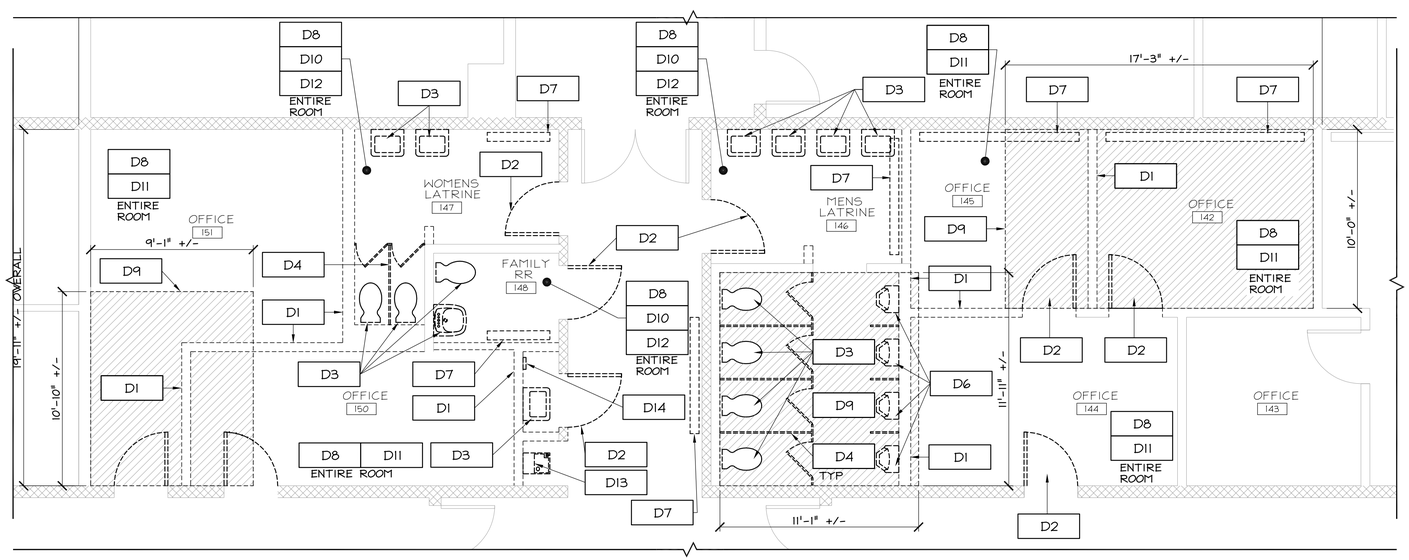
1 BUILDING 1 - EXISTING OVERALL DEMOLITION FLOOR PLAN

D100 Scale: 1/16" = 1'-0"



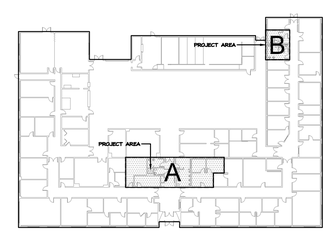
2 ENLARGED DEMOLITION PLAN - A

D100 Scale: 1/4" = 1'-0"



3 ENLARGED LATRINES DEMOLITION PLAN - B

D100 Scale: 1/4" = 1'-0"



KEY PLAN

Scale: N.T.S.

DEMOLITION NOTES:

1. THE SCOPE OF THIS DEMOLITION PACKAGE IS TO PROVIDE A NEW LATRINE, LOCKER AND SHOWER ROOM LAYOUTS FOR AN INCREASE SQUARE FOOTAGE OF THE EXISTING MEN AND WOMEN'S LATRINE.
2. THE EXISTING CONDITIONS INFORMATION SHOWN &/or INDICATED ON THE DRAWINGS WAS OBTAINED FROM LIMITED EXISTING DRAWINGS PREPARED BY OTHERS, (WHEN AVAILABLE); FIELD REVIEW; FIELD MEASUREMENT; &/or OTHER AVAILABLE DOCUMENTATION &/or OBSERVATION BY OTHERS. NOT ALL EXISTING CONDITIONS &/or ACTUAL CONSTRUCTION MAY BE INDICATED &/or KNOWN.
3. CONTRACTOR TO VERIFY ALL EXISTING, CONDITIONS, CONNECTIONS, LOCATIONS, SIZES, ETC. IN THE FIELD AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
4. CONTRACTOR TO COORDINATE EXTENTS OF ALL DEMOLITION WORK WITH ALL NEW WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING DEMOLITION WORK.
5. CONTRACTOR TO PROPERLY DE-ENERGIZE, SHUT OFF & CAP ALL UTILITIES (ELECTRICAL, GAS, WATER, SEWER, TELEPHONE, ETC.) BACK TO THE EXISTING WALLS, ROOF DECK, AND/OR TO SLAB OR GRADE. U.N.O. COORDINATE W\ MEP DEMOLITION DWGS & LOCAL UTILITY COMPANIES.
6. FULL EXTENT OF BUILDING MATERIALS IS KNOWN. EXISTING BUILDING CONSTRUCTION MAY CONTAIN MATERIALS THAT REQUIRE ABATEMENT. IF POTENTIAL MATERIALS ARE DISCOVERED, CONTRACTOR TO NOTIFY OWNER & ARCHITECT BEFORE PROCEEDING WITH WORK.
7. CONTRACTOR TO PROVIDE ALL OSHA and/or BUILDING CODE REQUIRED SAFETY PROTECTION TO PROTECT WORKERS FROM FALLS, CRUSHING, ELECTROCUTION, IMPACT FROM ABOVE, ETC.
8. CONTRACTOR TO MAINTAIN BUILDING IN A SAFE AND SECURE MANNER AND TO ELIMINATE THE APPEARANCE OF ANY UNATTRACTIVE NUISANCE. MAINTAIN PHYSICAL BARRIER TO PREVENT BUILDING/ SITE ACCESS BY CHILDREN AT A MINIMUM.
9. CONTRACTOR TO PROTECT ALL EXISTING WORK TO REMAIN DURING DEMOLITION.
10. CONTRACTOR TO FURNISH AND INSTALL ALL SHORING AND/OR BRACING TO SUPPORT ALL EXISTING WALLS, FLOORS/ROOFS, ETC. PRIOR TO REMOVALS OF EXISTING CONSTRUCTION.
11. EXISTING BUILDING CONSTRUCTION DEFICIENCIES NOT INDICATED ON THE DRAWINGS, BUT UNCOVERED &/or DISCOVERED BY CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE REPORTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION OF NEW WORK. ADDITIONAL DETAILS WILL BE FURNISHED AS NECESSARY. TYPICAL.

DEMOLITION LEGEND:

- EXISTING WALL/ITEM TO REMAIN
- EXISTING WALL/ITEM TO BE REMOVED
- CMU WALL
- DENOTES REMOVAL OF CONCRETE SLAB

R&D = REMOVE & DISPOSE OF
R&S = REMOVE & SALVAGE

DEMOLITION WORK NOTES:

- XXX — NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- XXX — NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- D1 — R&D EXISTING INTERIOR WALL IN ITS ENTIRETY & PREP FOR NEW WORK. (TYP.)
- D2 — R&D DOOR, FRAME & HARDWARE IN IT'S ENTIRETY
- D3 — R&D LAVATORY FIXTURE, PLUMBING FIXTURE AND BATHROOM ACCESSORIES. RE. PLUMBING DRAWINGS.
- D4 — R&D EXISTING TOILET PARTITIONS
- D5 — R&D GANG SHOWER FIXTURES. RE. PLUMBING DRAWINGS.
- D6 — R&D URINAL FIXTURES. RE. PLUMBING DRAWINGS.
- D7 — R&D FIN TUBE CONTROLS. RE: MECHANICAL AND ELECTRICAL DWGS
- D8 — R&D ACOUSTICAL CEILING TILE & GRID SYSTEM IN ITS ENTIRETY. R&D EXISTING LIGHT FIXTURES, MECHANICAL DIFFUSERS AND SPRINKLER HEADS TO ACCOMMODATE NEW WORK. RE: M/E/P DWGS FOR ADDITIONAL INFORMATION
- D9 — R&D PORTION OF CONCRETE SLAB TO ACCOMMODATE NEW PLUMBING LINES, TIE-INS AND/OR FLOOR DRAINS. REFER TO PLUMBING DWGS FOR ADDITIONAL INFORMATION. G.C. TO SCAN FLOOR PRIOR TO DEMOLITION.
- D10 — R&D TILE FLOOR AND BASE IN IT'S ENTIRETY. PREP FLOOR TO RECEIVE NEW FINISH
- D11 — R&D VCT FLOOR, VINYL BASE AND/OR CARPET IN IT'S ENTIRETY. PREP FLOOR FOR NEW FINISH
- D12 — R&D CERAMIC WALL TILE ON EXISTING WALLS TO REMAIN. PATCH TO MATCH ANY DAMAGED SUBSTRATE IN-KIND
- D13 — R&S DRINKING FOUNTAIN IN IT'S ENTIRETY. RE: PLUMBING DWGS FOR ADDITIONAL INFORMATION
- D14 — R&S RTU CONTROLLER. RE: MECHANICAL AND ELECTRICAL DWGS FOR ADDITIONAL INFORMATION

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Checked by RJJ

Revised on

1 ADDENDUM #7 2020 05 29

2 ADDENDUM #9 ALT.#3 CLARIFICATIONS 2020 06 19

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WARWICK LATRINES MODERNIZATION

541 AIRPORT ROAD, WARWICK, RI 02886

Drawing Status

CONSTRUCTION DOCUMENTS

Issued On 10 NOVEMBER 2017

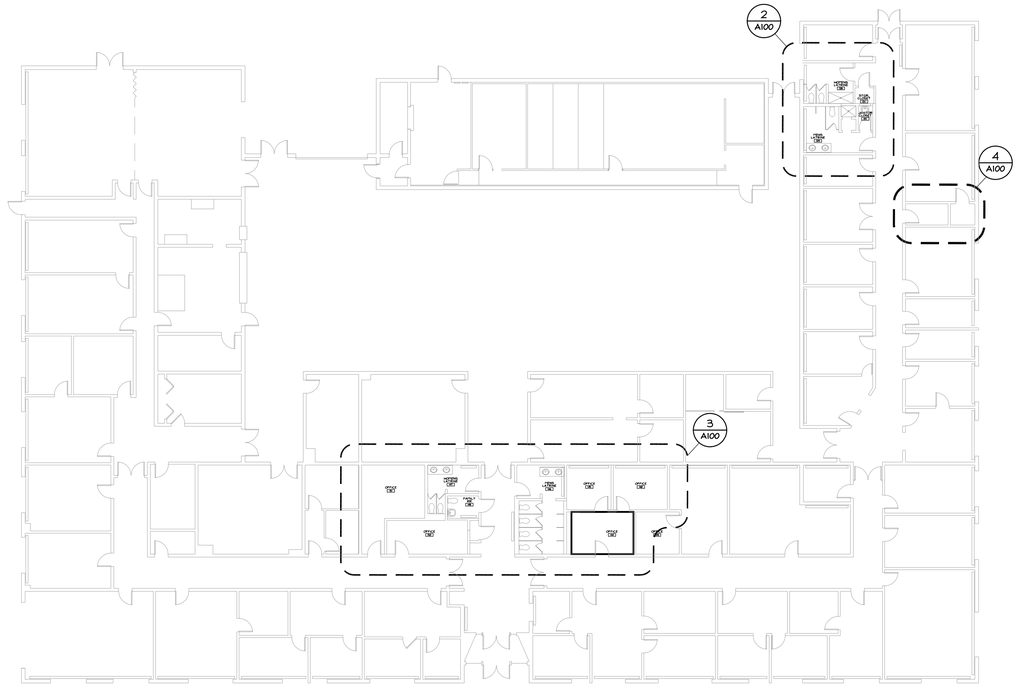
Sheet Contents

BUILDING 1 DEMOLITION PLAN-ALTERNATE #3

Project Number. 6356

Drawing No. D100

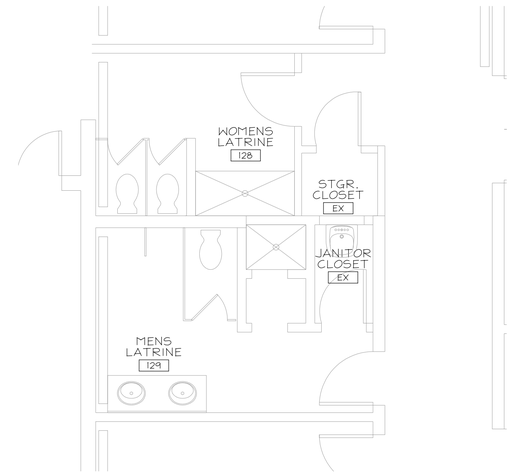
Sheet of



1 A100 BUILDING 1 - PROPOSED OVERALL FLOOR PLAN

Scale: 1/16" = 1'-0"

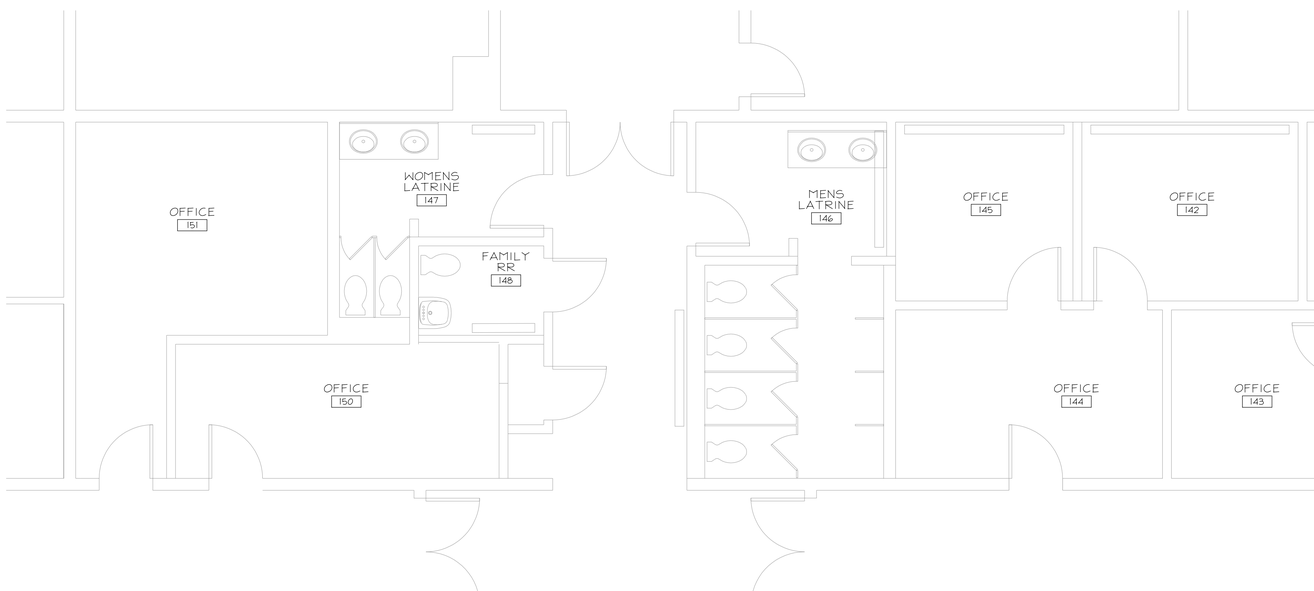
REFERENCE ONLY



2 A100 ENLARGED LATRINE FLOOR PLAN - B

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

REFERENCE ONLY



3 A100 ENLARGED LATRINE FLOOR PLAN - A

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

REFERENCE ONLY

4 A100 ENLARGED CLOSET PLAN - C

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

REFERENCE ONLY

GENERAL PLAN NOTES:

1. COORDINATE ALL NEW WORK w/ CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, &/or OTHER DRAWGINS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO NEW CONSTRUCTION ARE TO FACE OF STUD AND FACE OF MASONRY U.N.O.
3. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FACE OF FINISH U.N.O.
4. ALL NEW INTERIOR WALLS ARE TO EXTEND TO THE UNDERSIDE OF ROOF &/or FLOOR STRUCTURE ABOVE U.N.O.
5. ALL NEW DOOR FRAMES SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO DOOR JAMB, U.N.O.

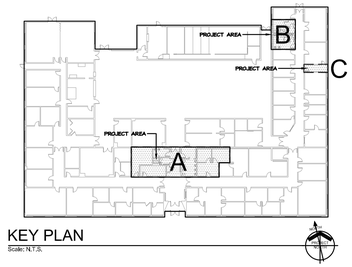
LEGEND:

EXIST. WALL TO REMAIN.

NEW WALLS

PLAN WORK NOTES:

XXX	NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
XXX	NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
A#.#	PLAN WORK NOTE
A1	EXISTING CONCRETE SLAB TO BE SCARIFIED. POURED EPOXY FLOORING WITH INTEGRAL MOISTURE MITIGATION, DURAGLAZE MVP, TO BE APPLIED OVER EXISTING FLOOR, PREPPED PER MANUFACTURER'S REQUIREMENTS. DURA QUARTZ FLOORING TO INCLUDE 6" FLASHED COVE BASE INTEGRAL TO SYSTEM, TYP.
A2	SOLID PHENOLIC TOILET PARTITIONS
A3	XLERATOR HAND DRYER. RE: ELECTRICAL DRAWINGS.
A4	LAV FIXTURE WITH INTEGRAL COUNTER. RE: PLUMBING DRAWINGS
A5	H.C. LAV FIXTURE. RE: PLUMBING DWGS & A700 FOR ADA REQUIREMENTS.
A6	CHANGING AREA AT WOMEN'S SHOWERS WITH (2) PRIVACY CURTAINS.
A7	ALL CMU OUTSIDE CORNERS TO BE BULL NOSE, TYP.
A8	STAINLESS STEEL SHOWER ROD AND CURTAIN, TYP.
A9	CONCRETE SLAB INFILL AT SHOWER AREAS TO BE COORDINATED WITH SLOPED FLOOR TO DRAIN.
A10	LOCKER AREA BENCH WITH STAINLESS STEEL PEDESTAL BASE ANCHORED TO SLAB. RE: SPECIFICATIONS.
A11	NEW SLOP SINK. RE: PLUMBING DRAWINGS
A12	STAINLESS STEEL TRANSITION STRIP AT FLOORING TRANSITION
A13	ALL SHOWER FIXTURES AND ACCESSORIES SHOWN TO BE NEW, RE:A700 & PLUMBING DRAWINGS.
A14	ALL TOILET ROOM FIXTURES AND ACCESSORIES SHOWN TO BE NEW, RE:A700 & PLUMBING DRAWINGS.
A15	NEW THICKENED SLAB ON GRADE. REFER TO DETAIL 4/A400 , TYPICAL AT ALL NEW CMU WALLS.
A16	JANITORS SPIGOT. RE: PLUMBING DRAWINGS.



KEY PLAN

Scale: N.T.S.

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Revised on

1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

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Drawing Status

CONSTRUCTION DOCUMENTS

Issued On 10 NOVEMBER 2017

Sheet Contents

BUILDING 1 FLOOR PLAN-BASE BID

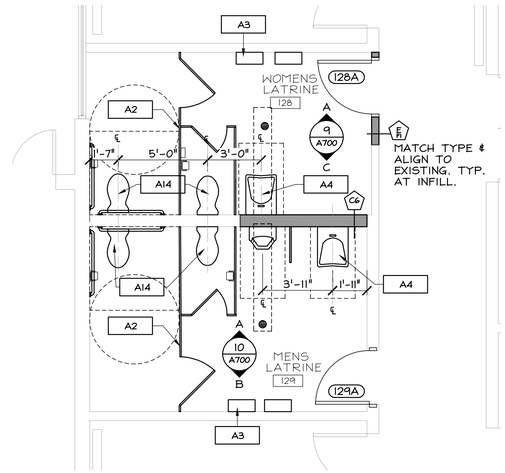
Project Number. 6356

Drawing No. 1 A100

Sheet of

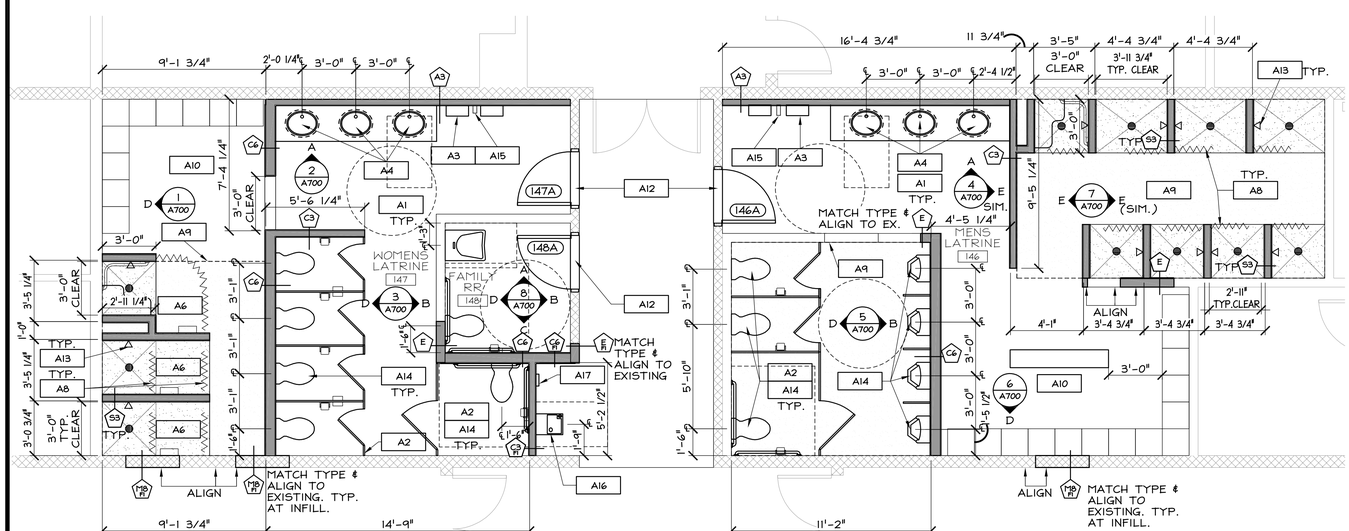
1 BUILDING 1 - PROPOSED OVERALL FLOOR PLAN

A101 Scale: 1/16" = 1'-0"



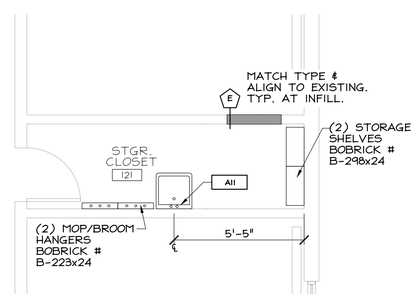
2 ENLARGED LATRINE FLOOR PLAN - B

A101 Scale: 1/4" = 1'-0"



3 ENLARGED LATRINE FLOOR PLAN - A

A101 Scale: 1/4" = 1'-0"



4 ENLARGED CLOSET PLAN - C

A101 Scale: 1/4" = 1'-0"

GENERAL PLAN NOTES:

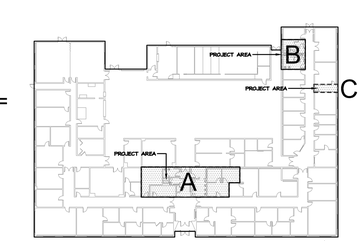
1. COORDINATE ALL NEW WORK w/ PLUMBING, MECHANICAL, ELECTRICAL, &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO NEW CONSTRUCTION ARE TO FACE OF STUD AND FACE OF MASONRY U.N.O.
3. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FACE OF FINISH U.N.O.
4. ALL NEW INTERIOR WALLS ARE TO EXTEND TO THE UNDERSIDE OF ROOF &/or FLOOR STRUCTURE ABOVE U.N.O.
5. ALL NEW DOOR FRAMES SHALL BE 4" CLEAR FROM THE FACE OF ADJACENT WALL TO DOOR JAMB, U.N.O.

LEGEND:

- EXIST. WALL TO REMAIN.
- NEW WALLS
- CMU WALL
- DENOTES CONCRETE SLAB INFILL
- FLOOR DRAIN; COORD. WITH PLUMB. DWGS

PLAN WORK NOTES:

XXX	NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
XXX	NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
A#.#	PLAN WORK NOTE
A1	EXISTING CONCRETE SLAB TO BE SCARIFIED. POURED EPOXY FLOORING WITH INTEGRAL MOISTURE MITIGATION, DURAGLAZE MVP, TO BE APPLIED OVER EXISTING FLOOR, PREPPED PER MANUFACTURER'S REQUIREMENTS. DURA QUARTZ FLOORING TO INCLUDE 6" FLASHED COVE BASE INTEGRAL TO SYSTEM, TYP.
A2	SOLID PHENOLIC TOILET PARTITIONS
A3	XLERATOR HAND DRYER. RE: ELECTRICAL DRAWINGS.
A4	LAV FIXTURE WITH INTEGRAL COUNTER. RE: PLUMBING DRAWINGS
A5	H.C. LAV FIXTURE. RE: PLUMBING DWGS & A700 FOR ADA REQUIREMENTS.
A6	CHANGING AREA AT WOMEN'S SHOWERS WITH (2) PRIVACY CURTAINS.
A7	ALL CMU OUTSIDE CORNERS TO BE BULL NOSE, TYP.
A8	STAINLESS STEEL SHOWER ROD AND CURTAIN, TYP.
A9	CONCRETE SLAB INFILL. MATCH CONCRETE SLAB THICKNESS. REINFORCE / 6X6-W2.1XW2.1 W.W.F. DOWEL IN #5 REBAR AT 12" O.C. INTO EXISTING FOUNDATION WALL OR SLAB EDGE. GRIND SMOOTH REBAR GOING INTO EXISTING SLAB AND PROVIDE SEALANT ON ALL SIDES. EMBED 6" INTO EXISTING SLAB. PROVIDE6" GRANULAR FILL BELOW 15 MIL. VAPOR BARRIER AND TIE VAPOR BARRIER INTO EXISTING
A10	LOCKER AREA BENCH WITH STAINLESS STEEL PEDESTAL BASE ANCHORED TO SLAB. RE: SPECIFICATIONS.
A11	NEW SLOP SINK. RE: PLUMBING DRAWINGS
A12	STAINLESS STEEL ADA TRANSITION STRIP AT FLOORING TRANSITION
A13	ALL SHOWER FIXTURES AND ACCESSORIES SHOWN TO BE NEW, RE:A700 & PLUMBING DRAWINGS.
A14	ALL TOILET ROOM FIXTURES AND ACCESSORIES SHOWN TO BE NEW, RE:A700 & PLUMBING DRAWINGS.
A15	JANITORS SPIGOT. RE: PLUMBING DRAWINGS.
A16	REINSTALL DRINKING FOUNTAIN. MOUNT 36" FROM FINISH FLOOR TO TOP OF SPOUT. RE: PLUMBING DWGS FOR ADDITIONAL INFORMATION
A17	REINSTALL RTU CONTROLLER. RE: MECHANICAL AND ELECTRICAL DWGS FOR ADDITIONAL INFORMATION



KEY PLAN

Scale: N.T.S.

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1 ADDENDUM #7 2020 05 29

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CONSTRUCTION DOCUMENTS

Issued On 10 NOVEMBER 2017

Sheet Contents

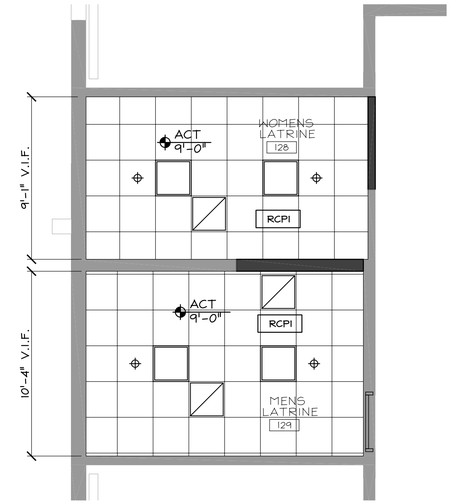
BUILDING 1 FLOOR PLAN-ALTERNATE #3

Project Number. 6356

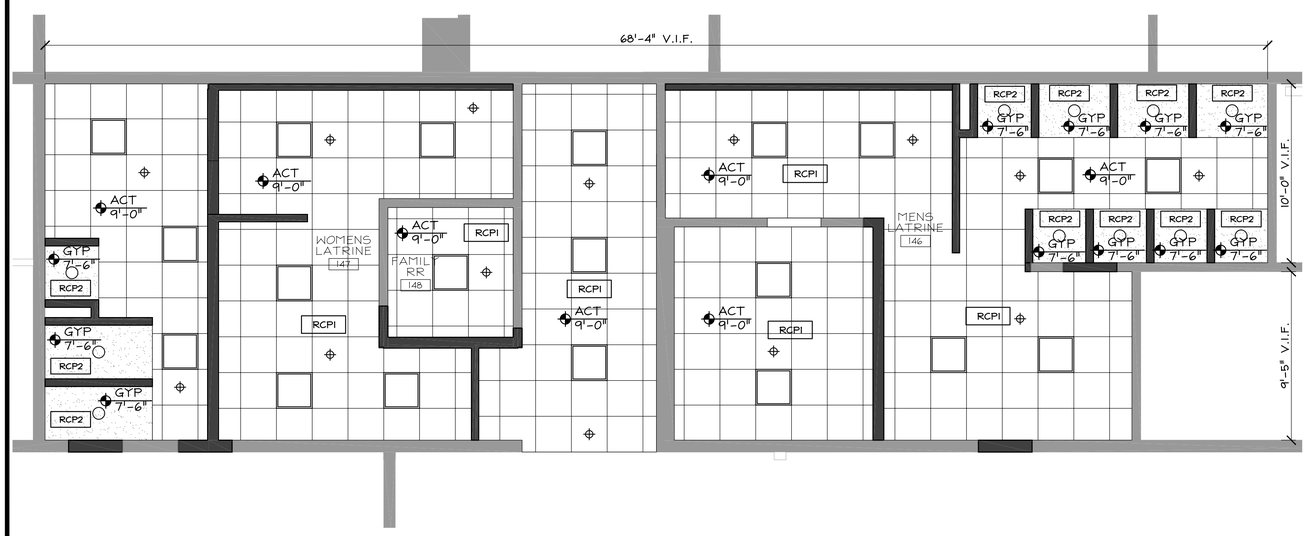
Drawing No. A101

Sheet of

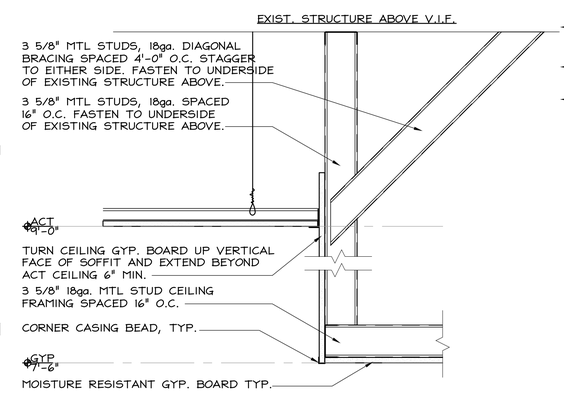
1 A600 BUILDING 1 - OVERALL REFLECTED CEILING PLAN
Scale: 1/16" = 1'-0"



2 A600 ENLARGED LATRINES CEILING PLAN - B
Scale: 1/4" = 1'-0"



3 A600 ENLARGED PROPOSED REFLECTED CEILING PLAN - A
Scale: 1/4" = 1'-0"



4 A600 TYP. CEILING CHANGE DETAIL
Scale: 1 1/2" = 1'-0"

REFLECTED CEILING PLAN NOTES:

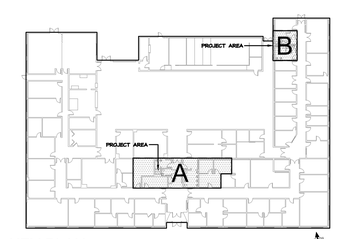
1. NOT ALL CEILING MOUNTED &/or SUSPENDED ITEMS, COMPONENTS, &/or WORK MAY BE SHOWN. CONTRACTOR TO COORDINATE w/ ALL DRAWINGS INCLUDING THE STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY ADDITIONAL ITEMS &/or DISCREPANCIES BEFORE STARTING WORK.
2. ALL CEILING MOUNTED ITEMS ARE TO BE CENTERED IN CEILING TILES U.N.O.
3. SPRINKLER HEAD LAYOUT IS APPROXIMATE AND NOT ALL HEADS MAY BE SHOWN. COORDINATE w/ SPRINKLER DWGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
4. PROVIDE WHITE GROMMET TRIM @ ALL SUPPORT CABLE &/or WIRING PENETRATIONS FOR SUSPENDED ELEMENTS.
5. EXISTING CEILING HEIGHT 9'-0". TO COORDINATE WITH MEP ENGINEER FOR REQUIRED CLEARANCE FOR DIFFUSERS, DUCTWORK, LIGHT FIXTURES, ETC.

REFLECTED CEILING PLAN LEGEND:

- NEW GYPSUM BOARD SOFFIT OR GYPSUM BOARD CEILING
- NEW CEILING GRID
- 2X2 CEILING LIGHT. COORDINATE w/ ELECTRICAL DWGS
- NEW CEILING MOUNTED HVAC SUPPLY DIFFUSER COORDINATE w/ MECHANICAL DWGS
- NEW CEILING MOUNTED HVAC RETURN DIFFUSER. COORDINATE w/ MECHANICAL DWGS.
- RECESSED OR SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE. COORDINATE w/ ELECTRICAL DWGS
- NEW WALL MOUNTED UP/DN. LIGHT FIXTURE COORDINATE w/ ELECTRICAL DWGS
- NEW CEILING MOUNTED LIGHT COORDINATE w/ ELECTRICAL DWGS
- SPRINKLER HEAD COORDINATE w/ PLUMBING/SPRINKLER DWGS

REFLECTED CEILING PLAN WORK NOTES:

- XXX — NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- XXX — NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- RCP1 — 2'X2' ACT SYSTEM ALL ACT CEILINGS @ 9'-0" A.F.F. U.N.O.
- RCP2 — MOISTURE RESISTANT GWB CEILING @ 7'-6", EPOXY PAINTED



KEY PLAN
Scale: N.T.S.

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Drawing Status
CONSTRUCTION DOCUMENTS

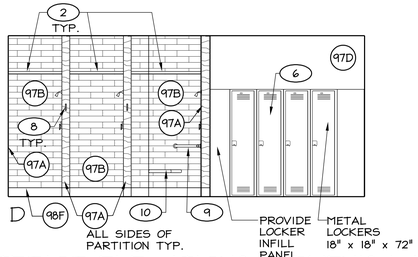
Issued On 10 NOVEMBER 2017

Sheet Contents
REFLECTED CEILING PLAN - BUILDING 1-ALTERNATE #3

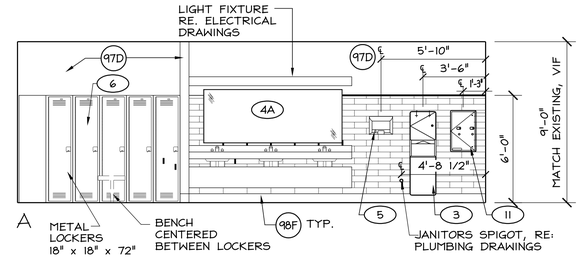
Project Number. 6356

Drawing No. A600 1 2

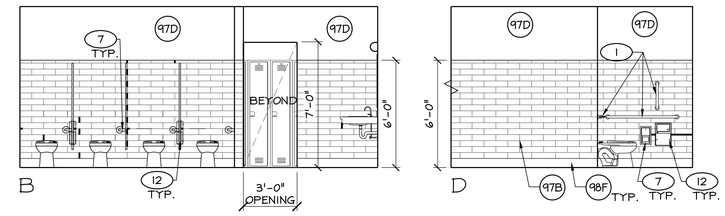
Sheet of



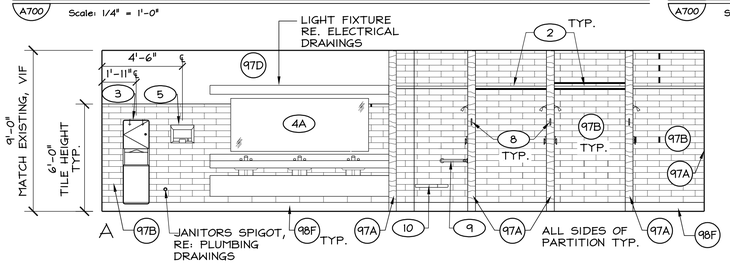
1 A700 INTERIOR ELEVATIONS- WOMEN'S LATRINE (147)
Scale: 1/4" = 1'-0"



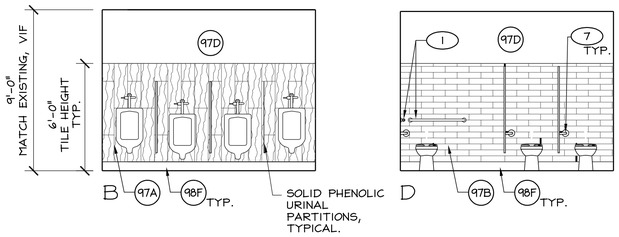
2 A700 INTERIOR ELEVATIONS- WOMEN'S LATRINE (147)
Scale: 1/4" = 1'-0"



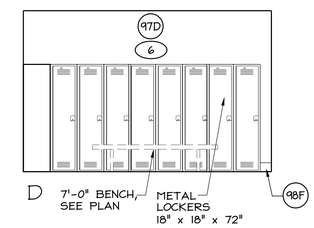
3 A700 INTERIOR ELEVATIONS- WOMEN'S LATRINE (147)
Scale: 1/4" = 1'-0"



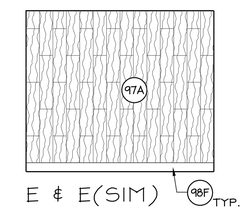
4 A700 INTERIOR ELEVATIONS- MEN'S LATRINE (146)
Scale: 1/4" = 1'-0"



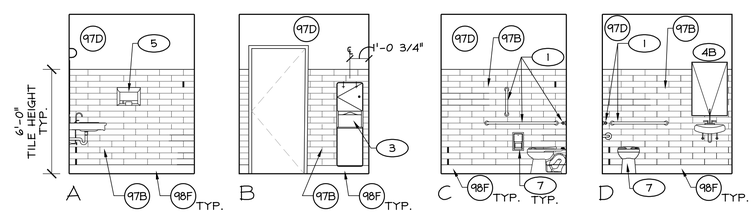
5 A700 INTERIOR ELEVATIONS- MEN'S LATRINE (146)
Scale: 1/4" = 1'-0"



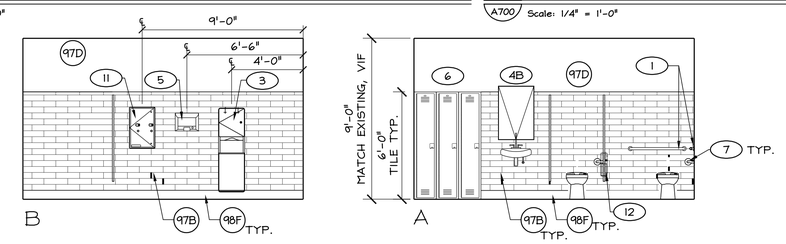
6 A700 INTERIOR ELEVATIONS- MEN'S LATRINE (146)
Scale: 1/4" = 1'-0"



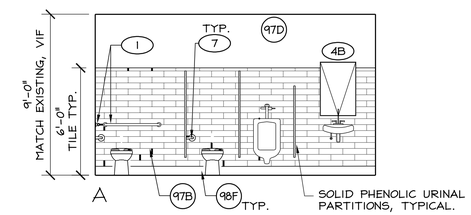
7 A700 INTERIOR ELEVATIONS- MEN'S LATRINE (146)
Scale: 1/4" = 1'-0"



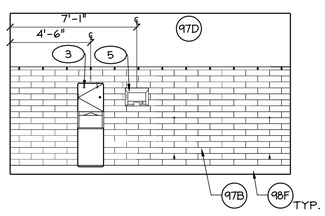
8 A700 FAMILY RR (148)
Scale: 1/4" = 1'-0"



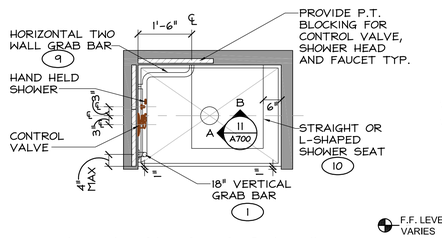
9 A700 WOMEN'S LATRINE (128)
Scale: 1/4" = 1'-0"



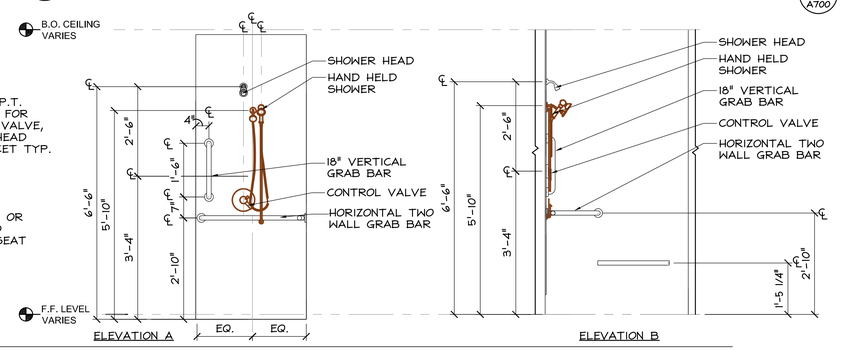
10 A700 MEN'S SUPPORT LATRINE (129)
Scale: 1/4" = 1'-0"



10 A700 MEN'S SUPPORT LATRINE (129)
Scale: 1/4" = 1'-0"



11 A700 TYPICAL ADA SHOWER
Scale: 1/2" = 1'-0"

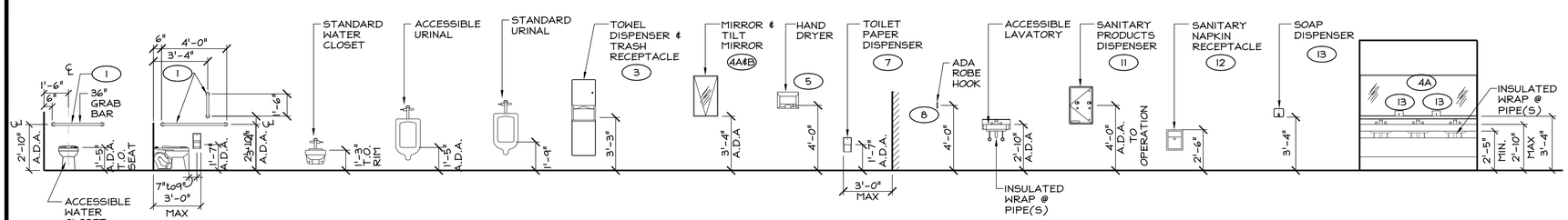


NOTE:
PROVIDE SOLID BLOCKING AT ALL WALL MOUNTED ACCESSORIES, TOILET PARTITIONS, WALL MOUNTED SINKS AND ANY OTHER WALL MOUNTED ITEMS

TOILET ACCESSORY SCHEDULE

1	GRAB BAR BOBRICK #B6806 SERIES
2	SHOWER CURTAIN & ROD BOBRICK B6107-36 & B202-2 & B240-1
3	SURFACE MOUNTED PAPER TOWEL DISPENSER/WASTE RECEPTACLE BOBRICK B-43949
4A	MIRROR BOBRICK #B165
4B	A.D.A TILT MIRROR BOBRICK #B294
5	HAND DRYER XLERATOR XL-SB BRUSHED STAINLESS STEEL
6	LOCKERS: 18" x 18" x 72" METAL LOCKERS. POWDERCOAT FINISH COLOR TBD
7	TOILET PAPER DISPENSER BOBRICK #B4388
8	ROBE HOOK- DOUBLE BOBRICK #B672
9	HORIZONTAL TWO WALL GRAB BAR BOBRICK #B-6861
10	ADA L-SHAPED SHOWER SEAT AMERICAN SPECIALTIES 8205-L
11	SURFACE MOUNTED NAPKIN DISPENSER BOBRICK-370639 25
12	SANITARY NAPKIN DISPOSAL BOBRICK-B-354 & B-35139
113	SOAP DISPENSER BOBRICK #B4112

CONTRACTOR TO FURNISH & INSTALL FRT WOOD BLOCKING FOR ALL TOILET ACCESSORIES PER MANUFACTURER'S REQUIREMENTS.



12 A700 TYPICAL FIXTURE & ACCESSORY MOUNTING HEIGHTS - ADULTS
Scale: 1/4" = 1'-0"

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Certification

Drawn by TPL
Checked by RJJ

Revised on
1 ADDENDUM #7 2020 05 29
2 ADDENDUM #9 ALT.#3 CLARIFICATIONS 2020 06 19

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Project
RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

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Drawing Status
CONSTRUCTION DOCUMENTS

Issued On 10 NOVEMBER 2017

Sheet Contents
INTERIOR ELEVATIONS - BUILDING 1-ALTERNATE #3

Project Number. 6356

Drawing No. A700

Sheet of

DOOR & FRAME SCHEDULE

MARK	DOOR SIZE	DOOR TYPE	DOOR MATL	FRAME DEPTH	FRAME TYPE	FRAME MATL	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	DETAIL MULL	REQUIRED FIRE RATING	HARDWARE	REMARKS	MARK
BUILDING 1														
146A	3'-0" x 6'-8" x 1 3/4	1	HM	8 3/8"	1	MTL	3/A910	4/A910	7/A910	--	45 MIN.	HARDWARE SET #1	1&2	146A
147A	3'-0" x 6'-8" x 1 3/4	1	HM	8 3/8"	1	MTL	3/A910	4/A910	7/A910	--	45 MIN.	HARDWARE SET #1	1&2	147A
148A	3'-0" x 6'-8" x 1 3/4	1	HM	8 3/8"	1	MTL	3/A910	4/A910	7/A910	--	45 MIN.	HARDWARE SET #2	1&2	148A
128A	3'-0" x 6'-8" x 1 3/4	1	HM	4 7/8"	2	MTL	1/A910	2/A910	7/A910	--	45 MIN.	HARDWARE SET #1	2	128A
129A	3'-0" x 6'-8" x 1 3/4	1	HM	8 3/8"	1	MTL	3/A910	4/A910	7/A910	--	45 MIN.	HARDWARE SET #1	1&2	129A

REMARK NOTES:

1. FIELD VERIFY HEIGHT &/OR WIDTH OF MASONRY OPENING.
2. PROVIDE SIGNAGE MEETING ADA REQUIREMENTS MOUNTED @ 48" MIN. & 60" MAX. A.F.F. ON WALL ADJACENT TO LATCH SIDE OF DOOR.

GENERAL NOTES:

GENERAL:

1. FOR DOOR HEAD, JAMB, & THRESHOLD DETAILS RE: A910 UNO.

DOORS:

1. INTERIOR DOOR FINISHES:
   A. HOLLOW METAL: FACTORY PRIMED FOR FIELD PAINTING UNO
3. FRAME PROFILE DEPTH DIMENSION GIVEN INCLUDES THE THROAT DIMENSION PLUS 1" [1/2" RETURNS BOTH SIDES] UNO RE: 1/A920

HARDWARE:

1. HARDWARE & ACCESSORY LIST SCHEDULE ESTABLISHES GENERAL SCOPE REQUIREMENTS. CONTRACTOR, SUPPLIERS &/or MANUFACTURERS TO PROVIDE ALL NECESSARY ACCESSORIES, SCREWS, SEX BOLTS, STRIKES, COVER PLATES, TOOLS, ETC. FOR A COMPLETED INSTALLATION OF HARDWARE FOR A FULLY FUNCTIONAL SYSTEM FOR THE INTENDED USE.
2. TYPICAL HARDWARE FINISH REQUIREMENTS FOR INTERIOR DOORS:
   HARDWARE FINISH: US26D
   KICK PLATES METAL FINISH: US26D
   WASH & TOILET ROOMS: US26D

   HARDWARE FOR STOREFRONT DOORS PROVIDED BY CURTAINWALL/STOREFRONT MFG. FINISH TO MATCH ADJACENT FRAMES.

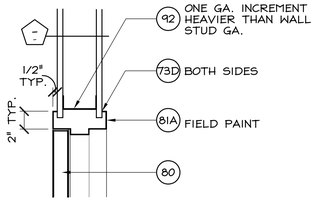
   CLOSERS, THRESHOLDS, ETC TO APPROXIMATE DOOR HARDWARE FINISH NOTED ABOVE.

   CYLINDER FINISH IS TO MATCH FINISH OF ITEM IN WHICH CYLINDER IS INSTALLED IN UNO. (IE. STOREFRONT FRAME COLOR, EXIT DEVICE FINISH, LOCKSET FINISH, etc.
3. PROVIDE LEVER HANDLES @ ALL LATCHSETS, LOCKSETS, PANIC DEVICES, DUMMY LATCHSETS TYPICAL UNO.
4. PROVIDE DOOR SILENCERS @ ALL DOORS
   SINGLE DOORS PROVIDE 3
5. PROVIDE ALUMINUM THRESHOLDS BY DOOR(S) WIDTH WHERE SHOWN ON PLANS, IN SILL DETAILS, &/or WHERE NOTED. TYPICAL.

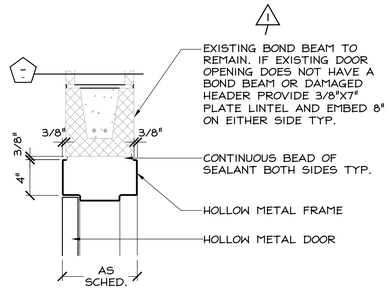
HARDWARE SET:

HARDWARE SET #1
- 1 EA CONTINUOUS HINGE
- 1 EA PULL PLATE
- 1 EA PUSH PLATE
- 1 EA SURFACE CLOSER
- 1 EA KICK PLATE
- 1 EA DOOR STOP
- 3 EA SILENCER

HARDWARE SET #2
- 3 EA BALL BEARING HINGES
- 1 EA PRIVACT HINGE
- 1 EA SURFACE CLOSER
- 1 EA KICK PLATE
- 1 EA DOOR STOP
- 3 EA SILENCER

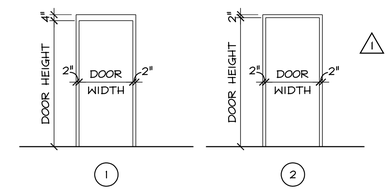


1 A910 TYP. HM HEAD @ STUD
Scale: 1 1/2" = 1'-0" (SECTION DETAIL)

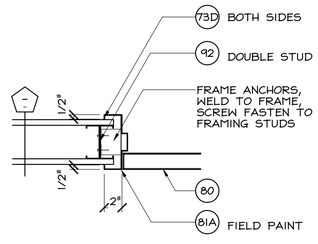


3 A910 TYP. HM HEAD @ CMU
Scale: 1 1/2" = 1'-0" (SECTION DETAIL)

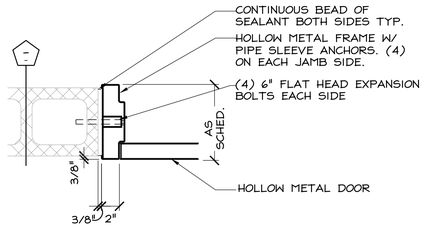
5 A910 DOOR TYPES
Scale: 1/4" = 1'-0"



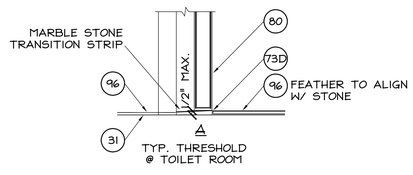
6 A910 FRAME TYPES
Scale: 1/4" = 1'-0"



2 A910 TYP. HM JAMB @ STUD
Scale: 1 1/2" = 1'-0" (PLAN DETAIL)



4 A910 TYP. HM JAMB @ CMU
Scale: 1 1/2" = 1'-0" (PLAN DETAIL)



7 A910 TYP. INTERIOR DOOR SILLS
Scale: 1 1/2" = 1'-0"

BUILDING 1 - ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOOR	BASE	WALLS	CEILING MATL	CEILING HEIGHT	REMARKS	MARK
BUILDING 1								
121	STORAGE CLOSET	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	TO INCLUDE METAL SHELVING	121
128	WOMEN'S LATRINE	96L	98F	97A, 97D	95C	MATCH EXISTING	--	128
129	MEN'S LATRINE	96L	98F	97A, 97D	95C	MATCH EXISTING	--	129
146	MEN'S LATRINE	96L	98F	97A, 97B, 97D	95C	MATCH EXISTING	--	146
147	WOMEN'S LATRINE	96L	98F	97A, 97B, 97D	95C	MATCH EXISTING	--	147
148	FAMILY RR	96L	98F	97A, 97D	95C	MATCH EXISTING	--	148
	CORRIDOR	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	95A	MATCH EXISTING	--	

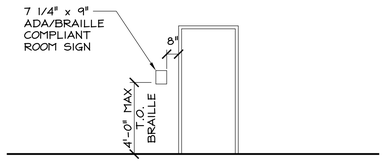
MATERIALS:

CEILING, SUSPENDED
- (95A) LAY-IN TILE
- (95B) 5/8" TYPE 'X' GYP. BD W/CONCEALED SUSPENSION SYSTEM
- (95C) GYPSUM BOARD, 5/8" TYPE 'X' GYP. BD

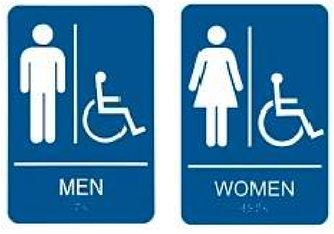
FLOOR FINISH
- (96L) EPOXY FLOOR FINISH SW CVII DECORATIVE MOSAIC

WALL FINISH
- (97A) TILE, CERAMIC OR PORCELAIN - WOOD DALTILE ACACIA VALLEY, (AV13), 9" x 36"
- (97B) TILE, CERAMIC OR PORCELAIN - WHITE BESTILE JAZZMAN 4" x 16"
- (97D) PAINT

BASE
- (98F) EPOXY COVE

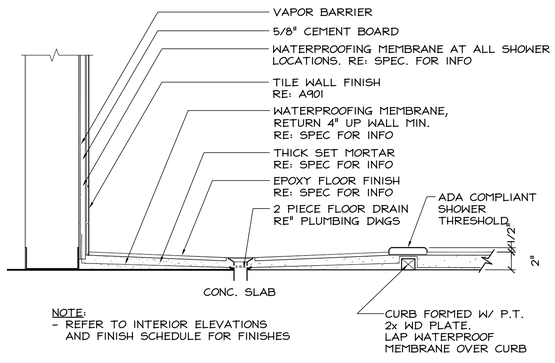


8 A910 SIGNAGE MOUNTING HEIGHTS
Scale: 1/4" = 1'-0"



(A) MENS ROOM SIGN w/BRAILLE

(B) WOMENS ROOM SIGN w/BRAILLE



NOTE:
- REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR FINISHES

9 A910 EPOXY SHOWER DETAIL
Scale: 1 1/2" = 1'-0"

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Certification

Drawn by TPL
Checked by RJJ

Revised on
1 ADDENDUM #7 2020 05 29
2 ADDENDUM #9 ALT.#3 CLARIFICATIONS 2020 06 19

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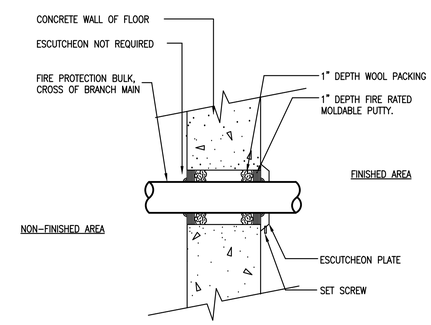
CONSTRUCTION DOCUMENTS

Issued On 10 NOVEMBER 2017

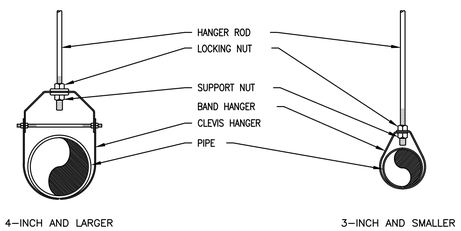
Sheet Contents
DOOR & FRAME SCHEDULE-ALTERNATE #3

Project Number. 6356
Drawing No. A910 (2)
Sheet of

NOTE:
1. FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.



1 MASONRY WALL FIRE RATED SLEEVE NTS

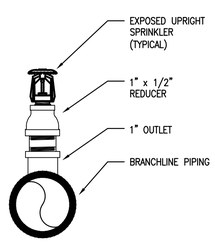


HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" & 3"	1/2" DIA.
4" AND 5"	5/8"
6" – 8"	3/4"
10 & 12"	7/8"

HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 1/4"	8'
1 1/2"	9'
2"	10'
2 1/2"	11'
3" – 12"	12'

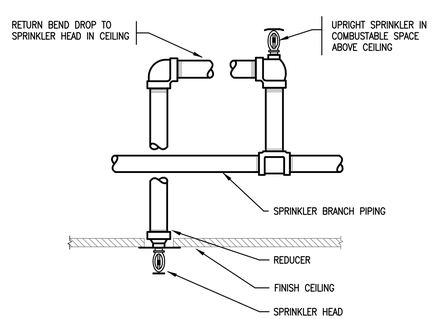
FIRE PROTECTION SYSTEMS

2 TYPICAL PIPE HANGER DIAGRAM NTS



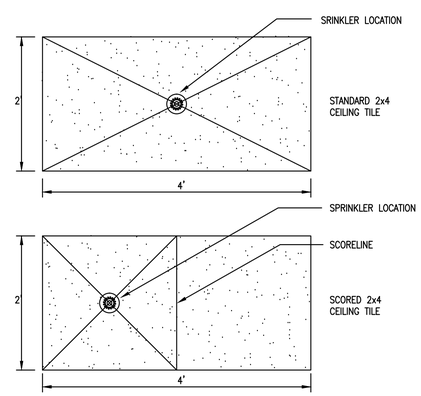
NOTE:
REFER TO SPECIFICATION SECTION 210000 FOR SPRINKLER HEAD TYPES AND LOCATION REQUIREMENTS.

3 EXPOSED UPRIGHT SPRINKLER NTS



NOTE:
REFER TO SPECIFICATION SECTION 210000 FOR SPRINKLER HEAD TYPES AND LOCATION REQUIREMENTS.

4 PENDENT SPRINKLER RETURN BEND DROP NTS



NOTE:
REFER TO SPECIFICATION SECTION 210000 FOR SPRINKLER HEAD TYPES AND LOCATION REQUIREMENTS.

5 SPRINKLER LOCATION IN CEILING TILES NTS

FIRE PROTECTION GENERAL NOTES:

1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT. AS SHOWN ON DRAWING, PLUS AS REQUIRED BY NFPA-13, AS REFERENCED IN THE RHODE ISLAND BUILDING & FIRE CODES AND THE AUTHORITY HAVING JURISDICTION.
2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION SUBCONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE RHODE ISLAND BUILDING CODE.
3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK INCLUDING ALL FEES OR EXPENSES INCURRED.
4. UNLESS OTHERWISE NOTED, IT IS THE INTENT OF THESE DOCUMENTS THAT THIS AREA SHALL BE 100% SPRINKLERED.
5. ALL SPRINKLER HEADS PROTECTING LIGHT HAZARD AREAS SHALL BE QUICK RESPONSE.
6. THE SPRINKLER CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST AND SHALL BASE HIS/HER HYDRAULIC CALCULATIONS ON HIS/HER TEST RESULTS.
7. THE SPRINKLER CONTRACTOR SHALL PREPARE HIS/HERS OWN FABRICATION/WORKING DRAWINGS OF THE SPRINKLER WORK AND OBTAIN APPROVALS FROM AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION, AND SUBMIT TO THE ARCHITECT FOR APPROVAL.
8. ROUTING OF SPRINKLER MAINS, BRANCHES AND HEADS SHALL BE THOROUGHLY COORDINATED WITH OTHER TRADES AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING, PREPARING, AND SUBMITTING COORDINATION DRAWINGS FOR APPROVAL.
9. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, STORAGE AND CUTTING OF ANY CEILING TILES TO ACCOMMODATE SPRINKLER HEADS. HE/SHE SHALL ALSO REINSTALL THE CEILING TILES AND REPLACE ANY DAMAGED TILES.
10. SPRINKLER HEADS IN AREAS WITH NO FINISHED CEILING SHALL BE LOCATED AS HIGH AS POSSIBLE. HEADS SUBJECT TO PHYSICAL DAMAGE SHALL BE INSTALLED WITH PROTECTIVE CAGES.
11. PATCH PIPE CORES WHERE FIRE PROTECTION PIPING HAS BEEN INSTALLED. PAINT PATCH WORK TO MATCH SURFACES.
12. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EACH AND EVERY OFFSET WITH REGARD TO THE PIPING THAT IS TO BE INSTALLED. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL DRAWINGS, AND MAKE DETAILED NOTES OF ALL NECESSARY OFFSETS REQUIRED WITH THE INSTALLATION OF HIS/HER WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE AND PROJECT CONDITIONS.
13. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WHICH SHALL BEAR THE SEAL OF A FIRE PROTECTION ENGINEER DULY LICENSED IN THE STATE OF RHODE ISLAND.
14. CONTRACTOR IS TO CLEAN/FLUSH ENTIRE SYSTEM BACK TO THE STREET WATER MAIN.
15. AT THE COMPLETION, TEST ENTIRE SYSTEM PER NFPA-13, AND NFPA-25. FILE ALL REPORTS AND CERTIFICATIONS. SUBMIT TO OWNER COPIES OF ALL REPORTS AND CERTIFICATIONS, TOGETHER WITH A COPY OF NFPA-25.
16. INSTRUCT THE OWNER ON MAINTENANCE PROCEDURES AND SYSTEM OPERATION.
17. SUBMIT ACCURATE AS-BUILT DRAWINGS.
18. PROVIDE PROPER SEISMIC RESTRAINTS FOR ALL REQUIRED FIRE PROTECTION PIPING PER NFPA AND LOCAL BUILDING CODES.
19. PRESSURE TEST ALL PIPING AND ALARMS PER NFPA.
20. WHERE ALL SPRINKLER PIPING IS EXPOSED, COORDINATE PAINTING PIPING AND SPRINKLER HEADS WITH ARCHITECT. REFER TO SPECIFICATION SECTION 099100 "PAINTING".
21. WHERE EXTERIOR CANOPIES REQUIRE SPRINKLER PROTECTION PER NFPA, PROVIDE DRY TYPE SPRINKLERS OFF OF WET SPRINKLER SYSTEM.
22. INSTALL ALL PENDENT SPRINKLERS LOCATED ON SUSPENDED CEILINGS ON CENTER OF CEILING TILES BOTH WAYS. IF SPRINKLERS ARE LOCATED IN GYPSUM CEILINGS, INSTALL AND ALIGN HORIZONTALLY AND VERTICALLY WITH LIGHT FIXTURES AS MUCH AS POSSIBLE SPACING REQUIREMENTS ALLOW.
23. PROVIDE SPRINKLER PROTECTION UNDER EXPOSED DUCTWORK 4'-0" WIDE OR GREATER.

FIRE PROTECTION LEGEND

	NEW WORK PIPING (INDICATED AS HEAVY LINE)
ETR	EXISTING TO REMAIN (INDICATED AS LIGHT LINE)
RE	EXISTING PIPING & EQUIPMENT TO BE REMOVED
CTE	CONNECT TO EXISTING
F	FIRE SERVICE BELOW GRADE OR BURIED
WS	WET SPRINKLER PIPE
D	SPRINKLER DRAIN
FDC	FIRE DEPARTMENT CONNECTION PIPE
	PIPE TEE LOOKING UP
	PIPE TEE LOOKING UP
UP	PIPE ELBOW UP
DN/DR	PIPE ELBOW DOWN OR DROP
CONT	CONTINUATION
	FLOW IN DIRECTION OF ARROW
UN	UNION
PG	PRESSURE GAUGE WITH PETCOCK
FS	FLOW SWITCH
CV	CHECK VALVE
GV	GATE VALVE
TS	GATE VALVE WITH TAMPER SWITCH
PRV	PRESSURE REDUCING/REGULATING VALVE
OS&Y W/TS	OS & Y GATE VALVE WITH TAMPER SWITCH
BV W/TS	BALL VALVE WITH TAMPER SWITCH
VIV	VALVE IN VERTICAL
VIV W/TS	VALVE IN VERTICAL WITH TAMPER SWITCH
WACV	ALARM CHECK VALVE (WET SYSTEM)
PIV W/TS	POST INDICATOR VALVE W/TAMPER SWITCH
DCVA	HORIZONTAL DOUBLE CHECK VALVE ASSEMBLY
WTS	WATER TIGHT SLEEVE
DV	DRAIN VALVE WITH HOSE END
SC	SIAMESE FIRE DEPT. CONNECTION
U	UPRIGHT WET SPRINKLER
P	RECESSED PENDENT WET SPRINKLER
IP	INSTITUTIONAL PENDENT WET SPRINKLER
S	SIDEWALL WET SPRINKLER
SG	SIDEWALL WET SPRINKLER W/ GUARD
IS	INTUITIONAL SIDEWALL WET SPRINKLER
UG	UPRIGHT W/ GUARD
PG	PENDENT WET SPRINKLER W/ GUARD
TYP	TYPICAL
EX	EXISTING
AFF	ABOVE FINISHED FLOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
LFPC	LIMIT OF FIRE PROTECTION CONTRACT
NFPC	NOT IN FIRE PROTECTION CONTRACT
GC	GENERAL CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
HVAC	HVAC CONTRACTOR
FI	FURNISH & INSTALL
FFE	FINISHED FLOOR ELEVATION
VIF	VERIFY IN FIELD

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Certification

Drawn by AG
Checked by ARV

Revised on
1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

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Project
RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

541 AIRPORT ROAD, WARWICK, RI 02886

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On NOVEMBER 10, 2017

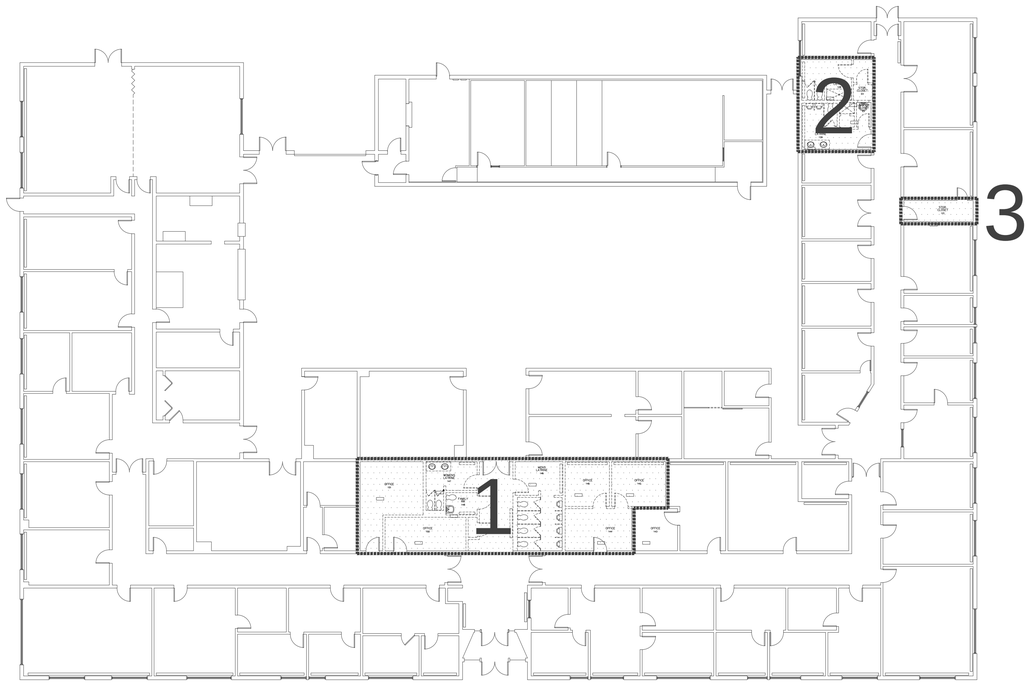
Sheet Contents
LEGEND, NOTES & DETAILS
-FIRE PROTECTION
ALTERNATE #3

Project Number.

Drawing No. FP001 1

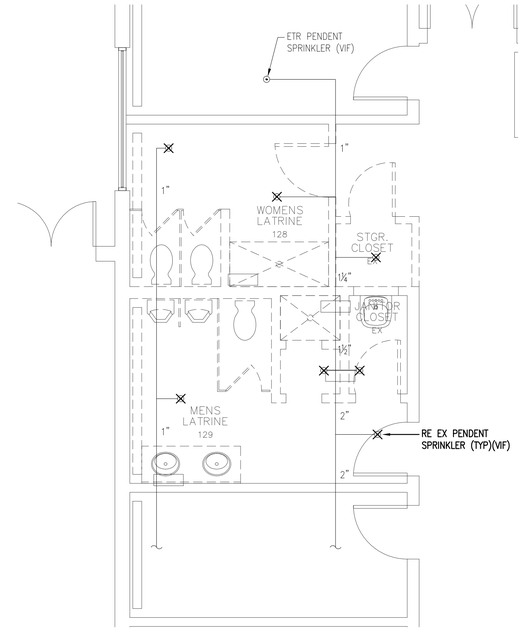
Sheet of

BER-17105



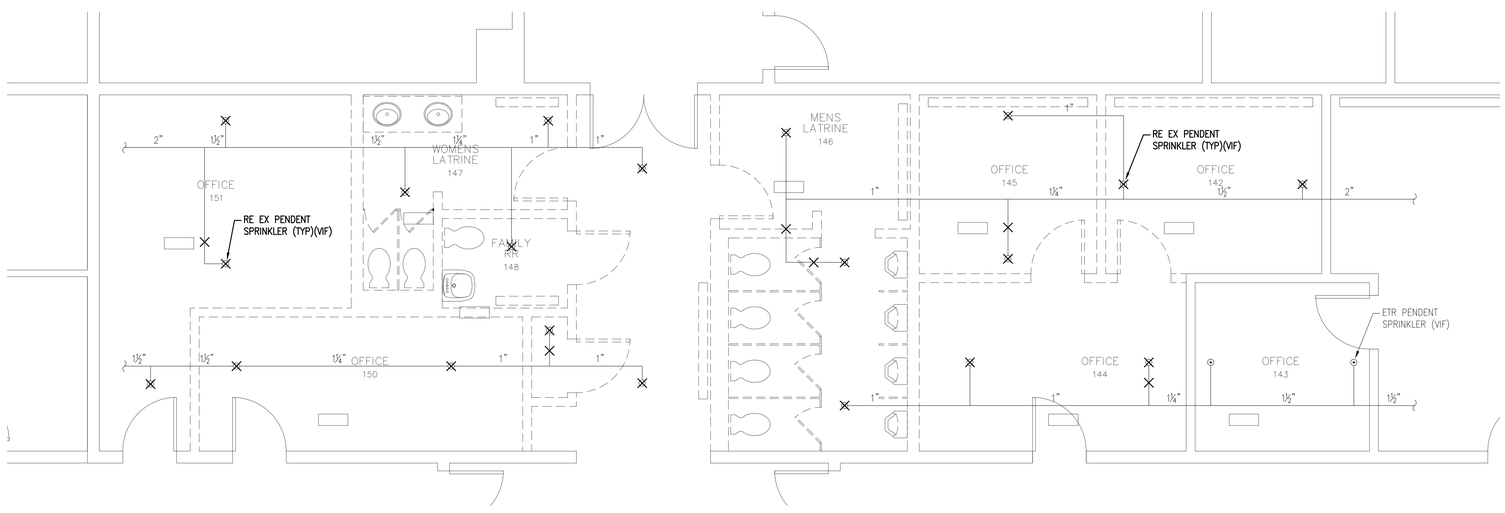
BUILDING 1 – EXISTING OVERALL DEMOLITION FLOOR PLAN

Scale: 1/16" = 1'–0"



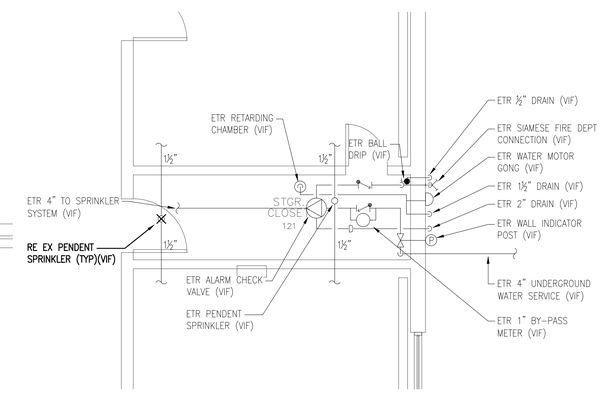
2 ENLARGED LATRINES DEMOLITION PLAN

FP100 Scale: 1/4" = 1'–0"



1 ENLARGED LATRINES DEMOLITION PLAN

FP100 Scale: 1/4" = 1'–0"



3 ENLARGED CLOSET DEMOLITION PLAN

FP100 Scale: 1/4" = 1'–0"

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Sheet Contents

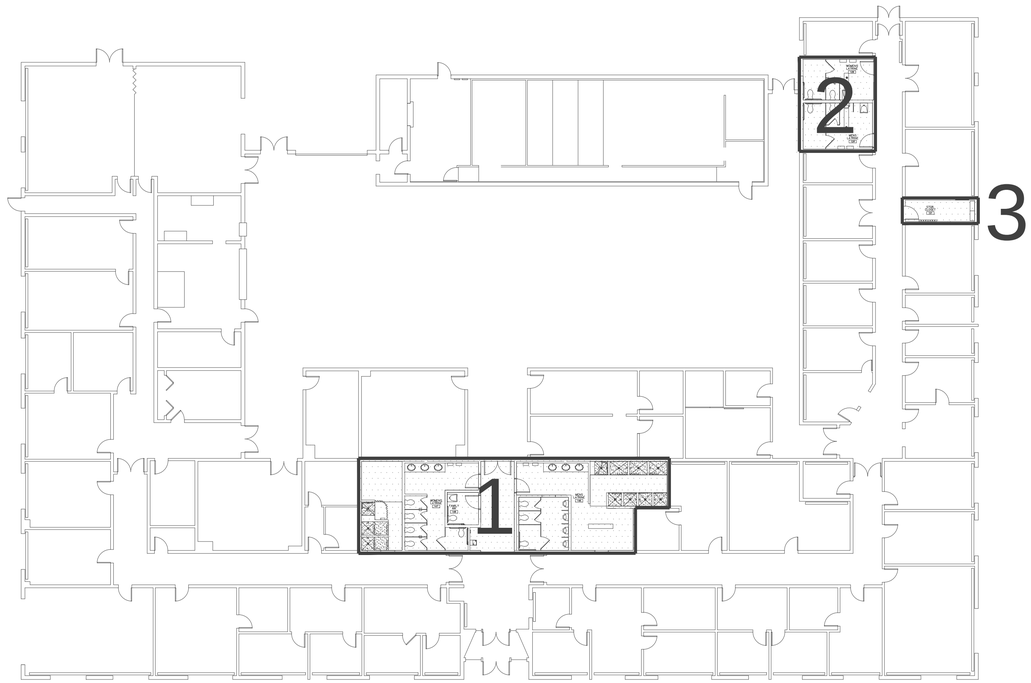
BUILDING 1 DEMOLITION PLAN - FIRE PROTECTION ALTERNATE #3

Project Number.

Drawing No. FP100 1

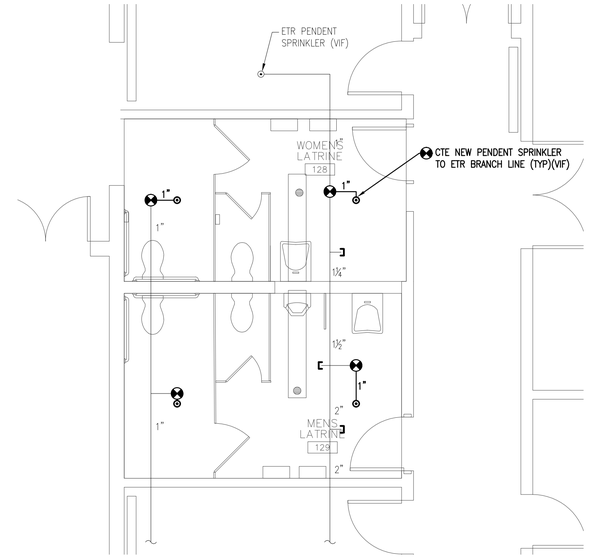
Sheet of

BER-17105



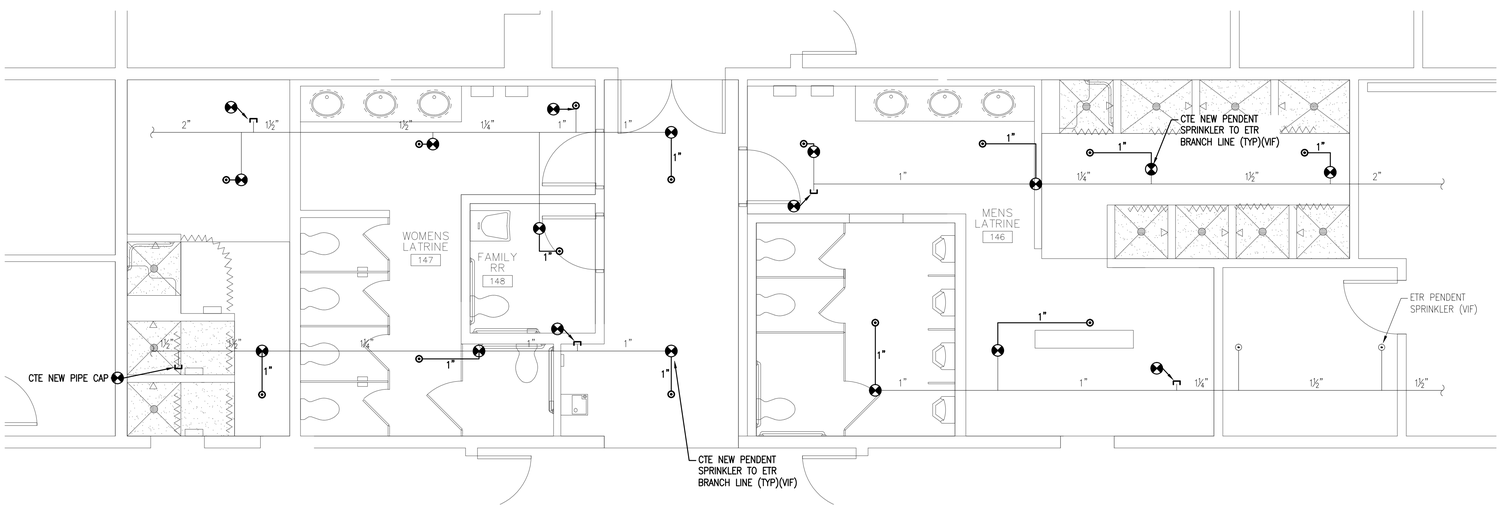
BUILDING 1 – OVERALL FLOOR PLAN

Scale: 1/16" = 1'–0"



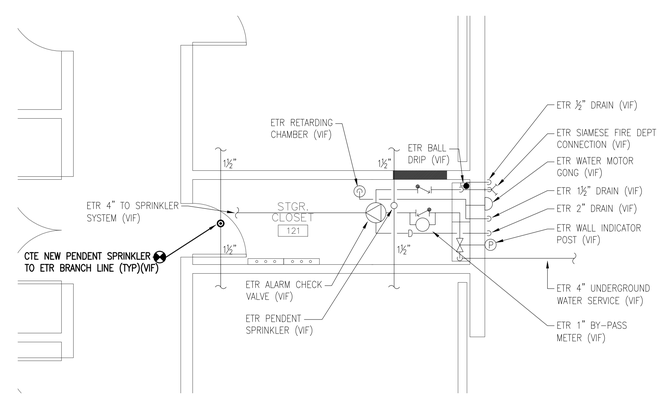
2 ENLARGED LATRINES PLAN

FP101 Scale: 1/4" = 1'–0"



1 ENLARGED LATRINES PLAN

FP101 Scale: 1/4" = 1'–0"



3 ENLARGED CLOSET PLAN

FP101 Scale: 1/4" = 1'–0"

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Sheet Contents

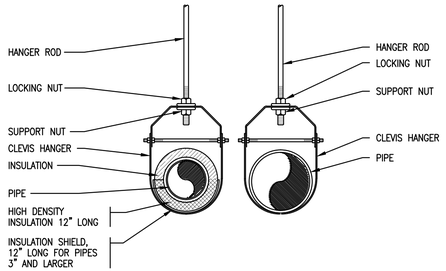
BUILDING 1
NEW FLOOR PLAN
- FIRE PROTECTION
ALTERNATE #3

Project Number.

Drawing No. FP102 1

Sheet of

BER-17105



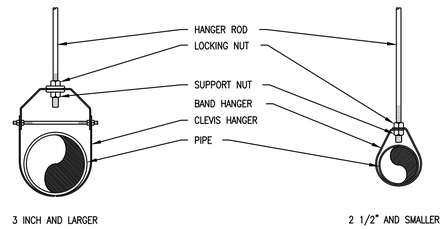
HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" THRU 3"	1/2" DIA.
4" AND 5"	5/8"

HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 1/4"	8'
1 1/2"	9'
2"	10'
2 1/2"	11'

1 CLEVIS PIPE HANGER/ROD INSTALLATION

NTS

NOTE:
FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.



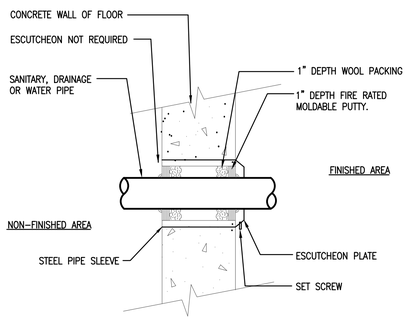
HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" & 3"	1/2" DIA.
4" AND 5"	5/8"
6" – 8"	3/4"
10 & 12"	7/8"

HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 1/4"	8'
1 1/2"	9'
2"	10'
2 1/2"	11'
3" – 12"	12'

2 CLEVIS–BAND HANGER/ROD INSTALLATION

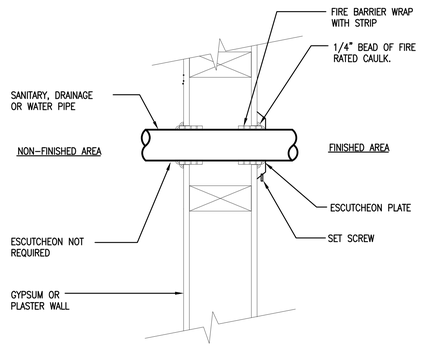
NTS

NOTE:
FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.



3 MASONRY WALL FIRE RATED SLEEVE

NTS



4 STUD WALL FIRE RATED SLEEVE

NTS

GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.
3. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE PRESIDING PLUMBING CODE AND ALL APPLICABLE LOCAL CODES.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC, FIRE PROTECTION, STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, AND/OR THE OWNER'S REPRESENTATIVE, AND RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
7. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AS REQUIRED AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROTECTED WITH UL LISTED SEALS OF EQUAL RATING.
8. MANUFACTURERS' MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
9. ALL PRODUCT INSTALLATION SHALL ADHERE TO THE MANUFACTURERS' RECOMMENDATIONS.
10. PROVIDE ACCESS PANELS FOR ALL EQUIPMENT THAT REQUIRES PERIODIC SERVICE AND FOR ALL VALVES.
11. TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
12. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
13. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
14. ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AS NECESSARY TO COORDINATE WORK.
15. RUN PIPING CONCEALED WHERE POSSIBLE, UNLESS SPECIFIED OTHERWISE.
16. STRUCTURAL WELDING SHALL BE 1/4–INCH FILLET UNLESS REQUIRED OTHERWISE.
17. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
18. PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS, PROVIDE SHUTOFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
19. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
20. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
21. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
22. PIPE SUPPORTS FOR PLUMBING IN BUILDING SHAFTS ARE BY THIS CONTRACTOR. CAREFULLY COORDINATE WITH PLACEMENT OF STEEL GRATE SUPPORT BEAMS. SHAFT PIPE SUPPORT SHALL BEAR FROM WALL AND FROM FLOOR SUPPORT BEAMS.
23. GENERAL FLOOR CONTROL VALVES OF PIPED SERVICES SHALL BE IN THE PIPE SHAFTS UNLESS OTHERWISE INDICATED.
24. OBTAIN GAS PERMITS AND DEFRAY ALL COSTS INCIDENTAL TO THE GAS PIPING SYSTEM. CONTRACTORS WORK SHALL COMMENCE ON THE HOUSE SIDE OF THE UTILITY COMPANY METER.
25. A SUITABLE DRIP OF CONDENSATE POCKET SHALL BE INSTALLED AT THE BOTTOM OF ALL GAS RISERS.
26. ALL GAS PIPING TO COMPLY WITH LOCAL AND STATE CODES.
27. GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
28. PROVIDE A SUITABLE GAS COCK VALVE AT HOUSE SIDE OF METER AND EACH BRANCH RUNOUT FROM THE MAIN SERVING GAS OUTLETS AND INDIVIDUAL GAS FIXTURES.
29. GAS PIPING SHALL BE TESTED ACCORDING TO THE STATE FUEL GAS CODE AND NATIONAL CODE PROVISIONS OF THE LOCAL PLUMBING INSPECTOR. IF INSPECTION OF THE TEST SHOWS DEFECTS, SUCH DEFECTIVE WORK AND MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REDONE.
30. PLUMBING CONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE. REGULATORS ARE PART OF EQUIPMENT GAS TRAN. PIPE ALL GAS TRAN VENTS FROM HVAC BOILERS TO ATMOSPHERE.
31. NO PIPING SHALL RUN OVER ELECTRICAL PANELS.
32. ALL EXTERIOR GAS PIPING SHALL BE PAINTED WITH TWO (2) COATS OF EPOXY BASED PAINT. COLOR TO MATCH EXISTING. REFER TO SPECIFICATION SECTION 099100 "PAINTING".
33. ALL PIPING THAT PENETRATES FLOORS OR FIRE RATED WALLS SHALL BE FIRE STOPPED W/ FIRE RATED CAULKING PER MANUFACTURERS RECOMMENDATIONS. REFER TO SPECIFICATION SECTION 078413 "PENETRATION FIRESTOPPING".
34. ELECTRICAL SUB CONTRACTOR IS RESPONSIBLE FOR PROVIDING POWER TO ALL EQUIPMENT AND CONTROLS WITHIN THE PLUMBING SYSTEMS FOR THIS PROJECT.

PLUMBING LEGEND

	RE	REMOVE EXISTING PIPING & EQUIPMENT
	ETR	LIGHT LINE INDICATES EXISTING PIPING TO REMAIN
	CTE	CONNECT TO EXISTING
	CC	CUT & CAP
	V&C	VALVE & CAP
	CW	COLD WATER
CW	CW	COLD WATER BELOW FLOOR BURIED
	HW	HOT WATER
	HWR	HOT WATER RECIRCULATION
	S or W	SOIL OR WASTE
S/W	S or W	SOIL OR WASTE BELOW FLOOR OR BURIED
GW	GW OR (GW)	GARAGE WASTE
	V	VENT
V	V	VENT BELOW FLOOR OR BURIED
	CONT	CONTINUATION
	UP	PIPE RISE OR UP
	DN	PIPE DROP OR DOWN
	TEE	PIPE TEE
	SOV	SHUT–OFF VALVE
	CV	CHECK VALVE
	BVA	BALANCING VALVE ASSEMBLY
	W & T	WASTE & TRAP
	CO	CLEANOUT PLUG
	FCO	FLUSH FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		CAPPED PIPE
		ARROW INDICATES DIRECTION OF FLOW
.01		ARROW INDICATES DIRECTION OF SLOPE
		UNION
	HB	HOSE BIBB
	WH	WALL HYDRANT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	DN	DOWN
	DR	DROP/RISE
	EX	EXISTING
	IW	INDIRECT WASTE
	VTR	VENT THRU ROOF
	INV	INVERT
	TYP	TYPICAL
	VIF	VERIFY EXACT LOCATION, SIZE & INVERT IN FIELD
	NTS	NOT TO SCALE
	VIF	VERIFY EXACT LOCATION, ROUTE & INVERT IN FIELD
	W & V	WASTE AND VENT
	S & V	SOIL AND VENT
	AFF	ABOVE FINISHED FLOOR
	LPC	LIMIT OF PLUMBING CONTRACT
	NIPC	NOT IN PLUMBING CONTRACT
	GC	GENERAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	PC	PLUMBING CONTRACTOR
	EC	ELECTRICAL CONTRACTOR
	HVAC	HVAC CONTRACTOR
	F & I	FURNISH & INSTALL
	S=.01	SLOPE = 1/8" PER FOOT
	S=.02	SLOPE = 1/4" PER FOOT
	F.F.E.	FINSHED FLOOR ELEVATION

DRAIN SCHEDULE

SYMBOL	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
FD–1	FLOOR DRAIN	J.R. SMITH	2005Y–A–NB–P050	2"	6"ø NICKEL BRONZE	CAST IRON BODY, NO–HUB, ADJUSTABLE STRAINER, TRAP PRIMER CONNECTION.

NOTES:
1. ALL FLOOR DRAINS SHALL HAVE TRAP SEAL GASKETS EQUAL TO "SURE SEAL".
2. INSTALL PER RI CODE AND MANUFACTURER'S INSTALLATION REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	FIXTURE				FIXTURE			SERVICES					REMARKS
		MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	TYPE	S/W	V	CW	HW	TW	
P–1	WATER CLOSET	AMERICAN STANDARD	2859.111	WALL HUNG	1.28 GPF	SLOAN	111–1.28–DFB–ESS	SENSOR FLUSH VALVE	4"	2"	1"	–	–	VITREOUS CHINA, ELONGATED, LOW CONSUMPTION, TOP SPUD, SENSOR FLUSH VALVE, HARD WIRED AC POWERED W/ TRANSFORMER, SLOAN #EL–154 120V, 50/60 Hz. BEMIS #3155SSCT OPEN FRONT SEAT. PROVIDE WALL CARRIER.
P–1A	WATER CLOSET – ADA	AMERICAN STANDARD	2859.111	WALL HUNG	1.6 GPF	SLOAN	111–1.6–ES–S–TMO	SENSOR FLUSH VALVE	4"	2"	1"	–	–	VITREOUS CHINA, ELONGATED, LOW CONSUMPTION, TOP SPUD, SENSOR FLUSH VALVE, HARD WIRED AC POWERED W/ TRANSFORMER, SLOAN #EL–154 120V, 50/60 Hz. BEMIS #3155SSCT OPEN FRONT SEAT. PROVIDE WALL CARRIER. BARRIER FREE, ADA COMPLIANT.
P–2	LAVATORY – ADA	INTERSAN	SLV03–L00R00–B–L07–TMV–HW	WALL HUNG	90"x21½"	INTERSAN	L07	SENSOR	1–1/2"	1–1/2"	1/2"	1/2"	–	ANTI–MICROBIAL SOLIDGUARD, LAVATORY SPACING ON 30" CENTERS. PROVIDE GRID DRAIN W/ OVERFLOW. PROVIDE WALL CARRIER. 0.35 GPM SENSOR FAUCET. PROVIDE THERMOSTATIC MIXING VALVE. LOW VOLTAGE CLASS II TRANSFORMER W/ PLUG (1 PER FAUCET). PROVIDE CHROME PLAYED HEAVY DUTY OFF–SET P–TRAP, SUPPLIES & STOPS. COORDINATE FIXTURE COLOR W/ ARCHITECT. BARRIER FREE, ADA COMPLIANT.
P–2A	LAVATORY – ADA	INTERSAN	SLV04–B–L07–TMV–HW	WALL HUNG	120"x21½"	INTERSAN	L07	SENSOR	1–1/2"	1–1/2"	1/2"	1/2"	–	ANTI–MICROBIAL SOLIDGUARD, LAVATORY SPACING ON 30" CENTERS. PROVIDE GRID DRAIN W/ OVERFLOW. PROVIDE WALL CARRIER. 0.35 GPM SENSOR FAUCET. PROVIDE THERMOSTATIC MIXING VALVE. LOW VOLTAGE CLASS II TRANSFORMER W/ PLUG (1 PER FAUCET). PROVIDE CHROME PLAYED HEAVY DUTY OFF–SET P–TRAP, SUPPLIES & STOPS. COORDINATE FIXTURE COLOR W/ ARCHITECT. BARRIER FREE, ADA COMPLIANT.
P–2B	LAVATORY – ADA	AMERICAN STANDARD	0355.012	WALL HUNG	20½"x18¾"	SYMMONS	S–20–2–G–0.5	MANUAL	1–1/2"	1–1/2"	1/2"	1/2"	–	VITREOUS CHINA, 3–HOLE, 4" CENTERS, 0.5 GPM MANUAL FAUCET. PROVIDE GRID DRAIN ASSEMBLY. PROVIDE CHROME PLATED HEAVY DUTY OFFSET P–TRAP, SUPPLIES & STOPS. PROVIDE WALL CARRIER. BARRIER FREE, ADA COMPLIANT.
P–3	URINAL	AMERICAN STANDARD	6590.001	WALL HUNG	–	SLOAN	186–0.5–DFB–ESS	SENSOR FLUSH VALVE	2"	2"	3/4"	–	–	VITREOUS CHINA, LOW CONSUMPTION, TOP–SPUD, SENSOR FLUSH VALVE, HARD WIRED AS POWERED W/ TRANSFORMER, SLOAN #EL–154 120V, 50/60 Hz & SOLENOID VALVE. PROVIDE WALL CARRIER. PROVIDE HEAVY DUTY CHROME PLATED SUPPLY & STOP.
P–3A	URINAL – ADA	AMERICAN STANDARD	6590.001	WALL HUNG	–	SLOAN	186–0.5–DFB–ESS	SENSOR FLUSH VALVE	2"	2"	3/4"	–	–	VITREOUS CHINA, LOW CONSUMPTION, TOP–SPUD, SENSOR FLUSH VALVE, HARD WIRED AS POWERED W/ TRANSFORMER, SLOAN #EL–154 120V, 50/60 Hz & SOLENOID VALVE. PROVIDE WALL CARRIER. PROVIDE HEAVY DUTY CHROME PLATED SUPPLY & STOP. BARRIER FREE, ADA COMPLIANT.
P–4	SHOWER	(BY OTHERS)	–	–	–	SYMMONS	1–901S–1.5	MANUAL	3"	2"	1/2"	1/2"	–	SYMMONS "HYDAPIPE", SURFACE MOUNTED, STAINLESS STEEL SHOWER SYSTEM. PRESSURE BALANCING MIXING VALVE W/ SCREW DRIVER SERVICE STOPS & ADJUSTABLE STOP SCREW. FREE–FLO, ALL BRASS, 1.5 GPM.
P–4A	SHOWER – ADA	(BY OTHERS)	–	–	–	SYMMONS	1–912RS–FSB–1.5	MANUAL	3"	2"	1/2"	1/2"	–	SYMMONS "HYDAPIPE", SURFACE MOUNTED, STAINLESS STEEL SHOWER SYSTEM. PRESSURE BALANCING MIXING VALVE W/ SCREW DRIVER SERVICE STOPS & ADJUSTABLE STOP SCREW. FREE–FLO, ALL BRASS, 1.5 GPM. BARRIER FREE, ADA COMPLIANT.
P–5	SERVICE SINK	STERN WILLIAMS	SB–500	FLOOR MOUNTED	36"x36"x12"	CHICAGO	897–CP	MANUAL	3"	2"	1/2"	–	–	FLOOR MOUNTED, MARBLE CHIPS & CEMENT, WALL MOUNTED CHROME PLATED LEVER FAUCET, VACUUM BREAKER. PROVIDE SPLASH GUARD, MOP & HOSE BRACKETS.
P–6	DRINKING FOUNTAIN	HALSEY TAYLOR	HTHB–HACC8SS–WF	WALL HUNG	SINGLE LEVEL	–	–	–	1–1/2"	1–1/2"	1/2"	–	–	WALL HUNG STAINLESS STEEL, ELECTRIC REFRIGERATED WATER COOLER W/ BOTTLE FILLING STATION – 120V, 60Hz, 1ϕ GFCI OUTLET. BARRIER FREE, ADA COMPLIANT.

NOTES:
1. ALL ADA FIXTURES SHALL BE INSTALLED PER ADA REQUIREMENTS.
2. ALL PLUMBING FIXTURES, EQUIPMENT & ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

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2020 06 19

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Project
RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

541 AIRPORT ROAD, WARWICK, RI 02886

Drawing Status
ISSUED FOR CONSTRUCTION

Issued On NOVEMBER 10, 2017

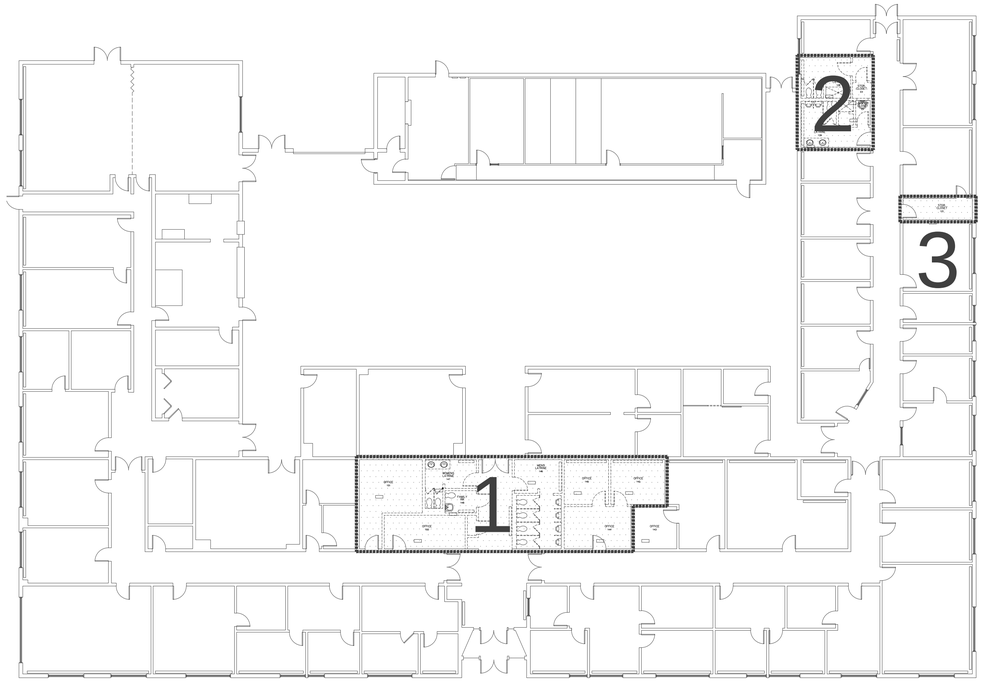
Sheet Contents
LEGEND, NOTES, DETAILS & SCHEDULES - PLUMBING ALTERNATE #3

Project Number.

Drawing No. 1
P001

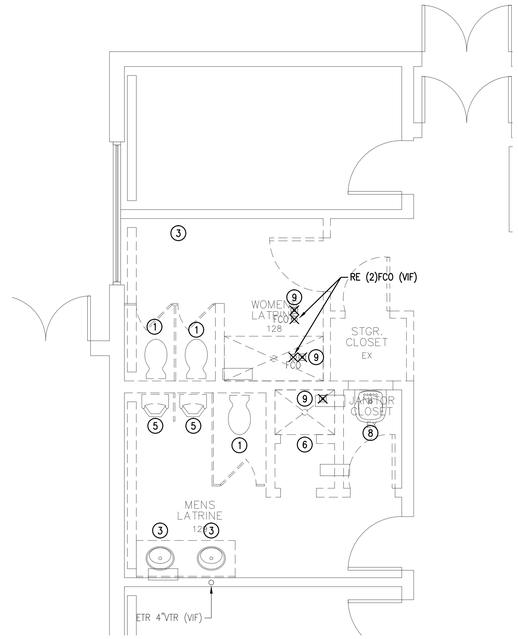
Sheet of

BER-17105



BUILDING 1 – EXISTING OVERALL DEMOLITION FLOOR PLAN

Scale: 1/16" = 1'-0"



2 / P100 ENLARGED LATRINES DEMOLITION PLAN

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

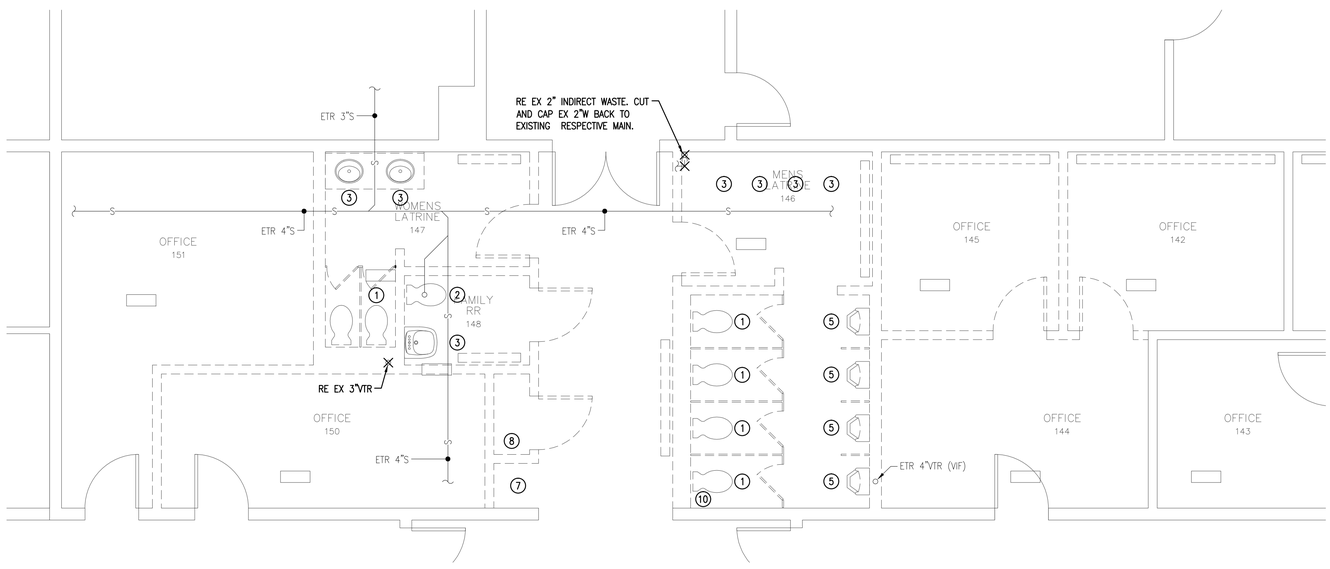
PLUMBING DEMO KEYED NOTES

1. REMOVE AND DISCARD EXISTING FLOOR MOUNTED FLUSH VALVE WATERCLOSET. CUT AND CAP BACK EXISTING 1" COLD WATER SUPPLY AND 4" SANITARY WASTE AND 2" VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
2. REMOVE AND DISCARD EXISTING FLOOR MOUNTED TANK TYPE WATERCLOSET. CUT AND CAP BACK EXISTING ½" COLD WATER SUPPLY AND 4" SANITARY WASTE AND 2" VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
3. REMOVE AND DISCARD EXISTING WALL HUNG LAVATORY & FAUCET. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND 1½" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
4. REMOVE AND DISCARD EXISTING COUNTER MOUNTED LAVATORY & FAUCET. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND 1½" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
5. REMOVE AND DISCARD EXISTING WALL MOUNTED FLUSH VALVE URINAL AND CARRIER. CUT AND CAP BACK EXISTING 3/4" COLD WATER SUPPLY AND 2" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
6. REMOVE AND DISCARD EXISTING SHOWER ENCLOSURE AND VALVE SYSTEM. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND 1½" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
7. REMOVE AND DISCARD EXISTING WATER COOLER. CUT AND CAP BACK EXISTING ½" CW, 2" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
8. REMOVE AND DISCARD EXISTING SERVICE SINK. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
9. REMOVE AND DISCARD EXISTING FLOOR DRAIN. CUT AND CAP BACK EXISTING TP SUPPLY AND SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
10. REMOVE AND DISCARD EXISTING WALL MOUNTED HOSE BIBB. CUT AND CAP BACK EXISTING ½" COLD WATER SUPPLY LINE BACK TO EXISTING RESPECTIVE MAIN LINE.

NOTES:
VERIFY EXACT LOCATIONS OF ALL ABOVE AND BELOW GROUND DOMESTIC WATER, SANITARY WASTE & VENT, STORM DRAINAGE AND NATURAL GAS SUPPLY & MAIN PIPING IN FIELD.

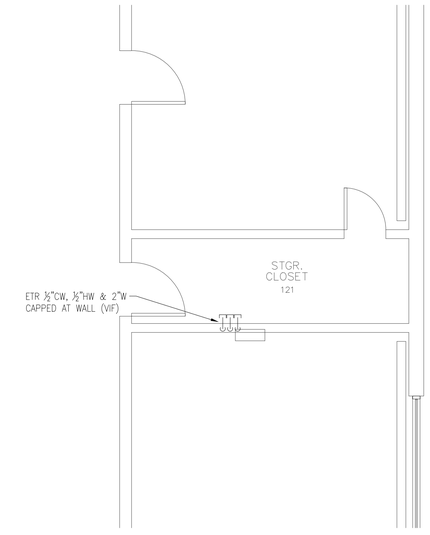
PLUMBING DEMOLITION NOTES

1. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO REMOVE THE EXISTING PLUMBING SYSTEM COMPLETELY. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
2. DISCONNECT, DISMANTLE AND DEMOLISH ALL EXISTING PLUMBING SYSTEMS AND EQUIPMENT AS INDICATED IN THE CONTRACT DRAWINGS. REMOVE ALL DEBRIS AND DISCONNECTED EQUIPMENT AND CLEAN OUT EXISTING SPACES. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLITION WORK.
3. REMOVE ALL EXISTING DOMESTIC, SANITARY AND GAS PLUMBING SERVICES INDICATED TO BE DEMOLISHED AND CAP BACK TO RESPECTIVE EXISTING MAIN LINES TO REMAIN. REMOVE AND DISCARD EXISTING PLUMBING STACKS, MAINS, BRANCHES AND VENTS SERVING FIXTURES TO BE DEMOLISHED. OBTAIN EXISTING RECORD DRAWINGS FROM OWNER.
4. VERIFY PIPING SERVES ONLY PLUMBING FIXTURES INDICATED FOR DEMOLITION BEFORE SHUT-DOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES FIXTURES TO REMAIN. PROMPTLY NOTIFY ARCHITECT OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITIONS TO BE DEMOLISHED.
5. COORDINATE ALL SHUT-DOWNS, TIE-INS, ETC., WITH THE G.C. ELECTRICAL MAKE-SAFE OF PLUMBING EQUIPMENT REQUIRING DEMOLITION SHALL BE COMPLETED BY THE ELECTRICAL SUBCONTRACTOR.
6. DEMOLITION SUBCONTRACTOR MUST PROTECT EXISTING SLAB, WALL, FENCING AND BUILDING STRUCTURE DURING DEMOLITION PHASE. DAMAGE TO EXISTING STRUCTURE SHALL BE REPAIRED AT DEMOLITION SUBCONTRACTORS EXPENSE.
7. ALL DEMOLITION WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES.



1 / P100 ENLARGED LATRINES DEMOLITION PLAN

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



3 / P100 ENLARGED CLOSET DEMOLITION PLAN

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

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WARWICK LATRINES MODERNIZATION

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Issued On NOVEMBER 10, 2017

Sheet Contents

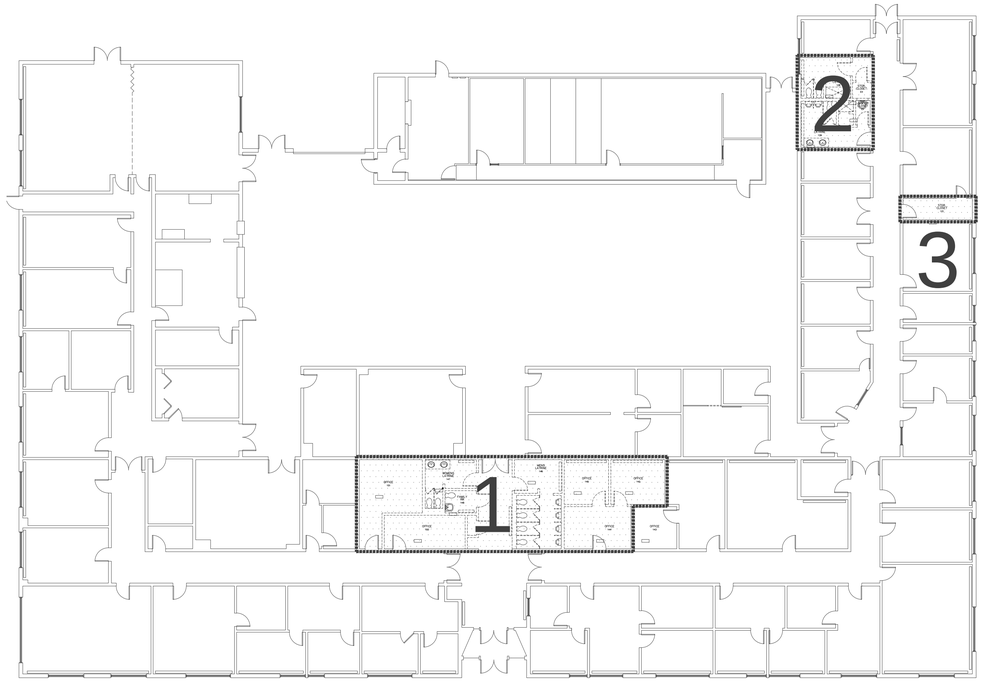
BUILDING 1 DEMOLITION PLAN SANITARY, WASTE & VENT - PLUMBING ALTERNATE #3

Project Number.

Drawing No. P100 1

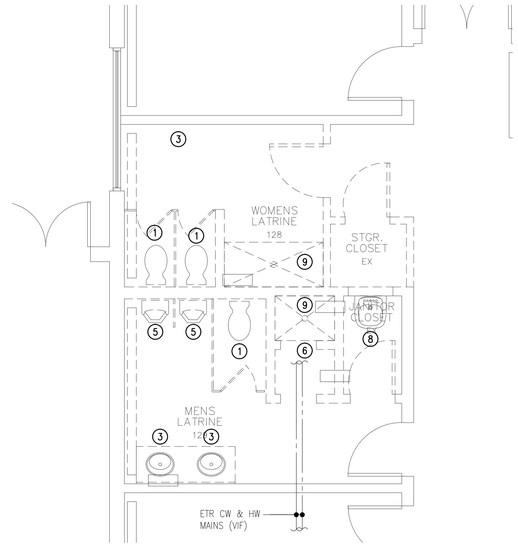
Sheet of

BER-17105



BUILDING 1 – EXISTING OVERALL DEMOLITION FLOOR PLAN

Scale: 1/16" = 1'-0"



2 / P101 ENLARGED LATRINES DEMOLITION PLAN

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

PLUMBING DEMO KEYED NOTES

1. REMOVE AND DISCARD EXISTING FLOOR MOUNTED FLUSH VALVE WATERCLOSET. CUT AND CAP BACK EXISTING 1" COLD WATER SUPPLY AND 4" SANITARY WASTE AND 2" VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
2. REMOVE AND DISCARD EXISTING FLOOR MOUNTED TANK TYPE WATERCLOSET. CUT AND CAP BACK EXISTING ½" COLD WATER SUPPLY AND 4" SANITARY WASTE AND 2" VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
3. REMOVE AND DISCARD EXISTING WALL HUNG LAVATORY & FAUCET. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND 1½" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
4. REMOVE AND DISCARD EXISTING COUNTER MOUNTED LAVATORY & FAUCET. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND 1½" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
5. REMOVE AND DISCARD EXISTING WALL MOUNTED FLUSH VALVE URINAL AND CARRIER. CUT AND CAP BACK EXISTING 3/4" COLD WATER SUPPLY AND 2" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
6. REMOVE AND DISCARD EXISTING SHOWER ENCLOSURE AND VALVE SYSTEM. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND 1½" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
7. REMOVE AND DISCARD EXISTING WATER COOLER. CUT AND CAP BACK EXISTING ½" CW, 2" SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
8. REMOVE AND DISCARD EXISTING SERVICE SINK. CUT AND CAP BACK EXISTING ½" HOT & COLD WATER SUPPLY AND SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
9. REMOVE AND DISCARD EXISTING FLOOR DRAIN. CUT AND CAP BACK EXISTING TP SUPPLY AND SANITARY WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.
10. REMOVE AND DISCARD EXISTING WALL MOUNTED HOSE BIBB. CUT AND CAP BACK EXISTING ½" COLD WATER SUPPLY LINE BACK TO EXISTING RESPECTIVE MAIN LINE.

NOTES:
VERIFY EXACT LOCATIONS OF ALL ABOVE AND BELOW GROUND DOMESTIC WATER, SANITARY WASTE & VENT, STORM DRAINAGE AND NATURAL GAS SUPPLY & MAIN PIPING IN FIELD.

PLUMBING DEMOLITION NOTES

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3. REMOVE ALL EXISTING DOMESTIC, SANITARY AND GAS PLUMBING SERVICES INDICATED TO BE DEMOLISHED AND CAP BACK TO RESPECTIVE EXISTING MAIN LINES TO REMAIN. REMOVE AND DISCARD EXISTING PLUMBING STACKS, MAINS, BRANCHES AND VENTS SERVING FIXTURES TO BE DEMOLISHED. OBTAIN EXISTING RECORD DRAWINGS FROM OWNER.
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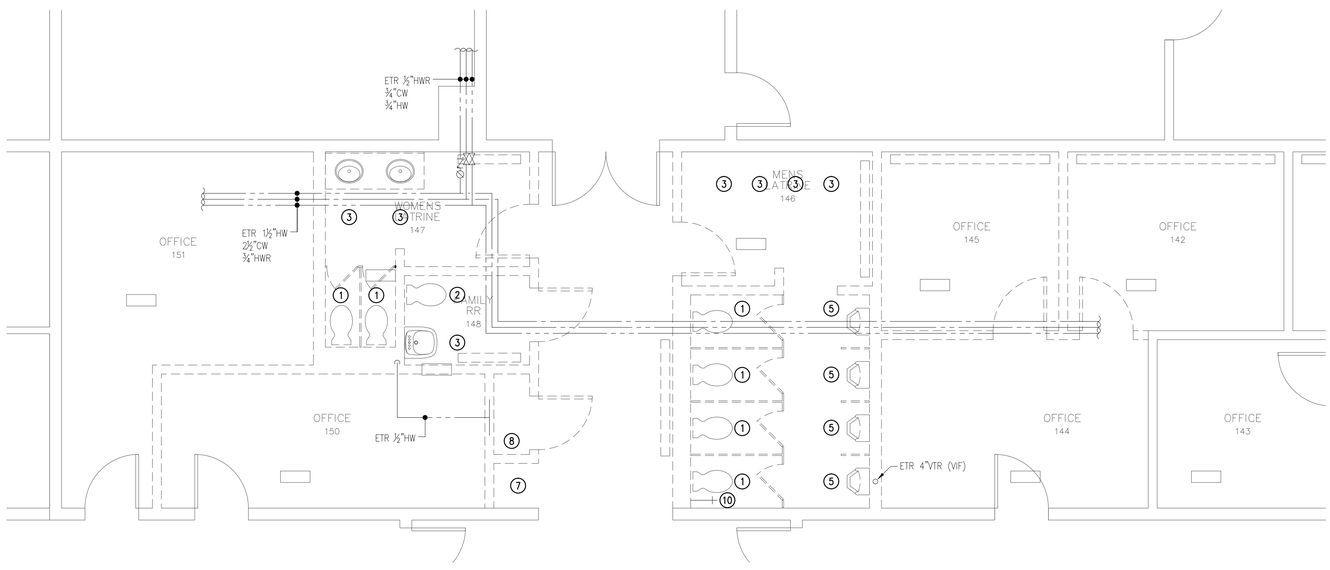
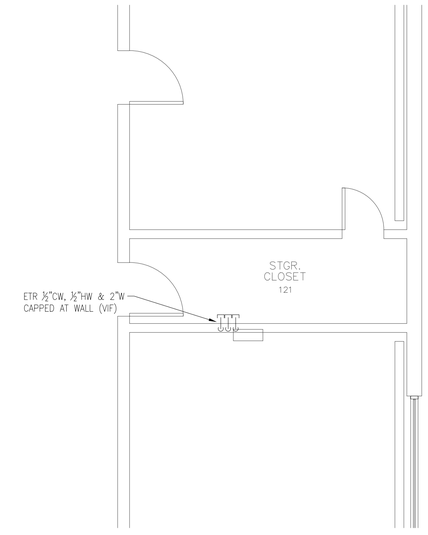


1 / P101 ENLARGED LATRINES DEMOLITION PLAN

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



3 / P101 ENLARGED CLOSET DEMOLITION PLAN

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

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Sheet Contents

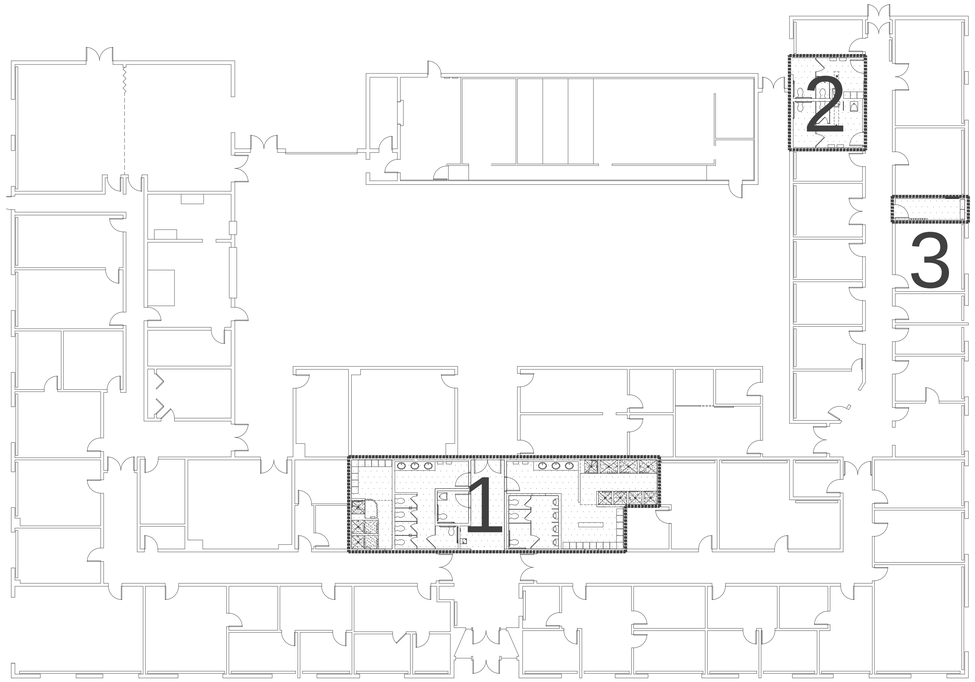
BUILDING 1 DEMOLITION PLAN DOMESTIC WATER - PLUMBING ALTERNATE #3

Project Number.

Drawing No. P101 1

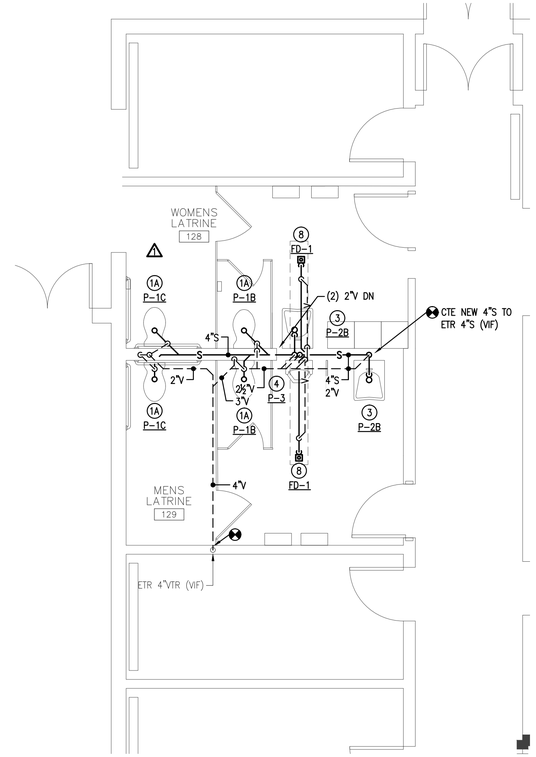
Sheet of

BER-17105



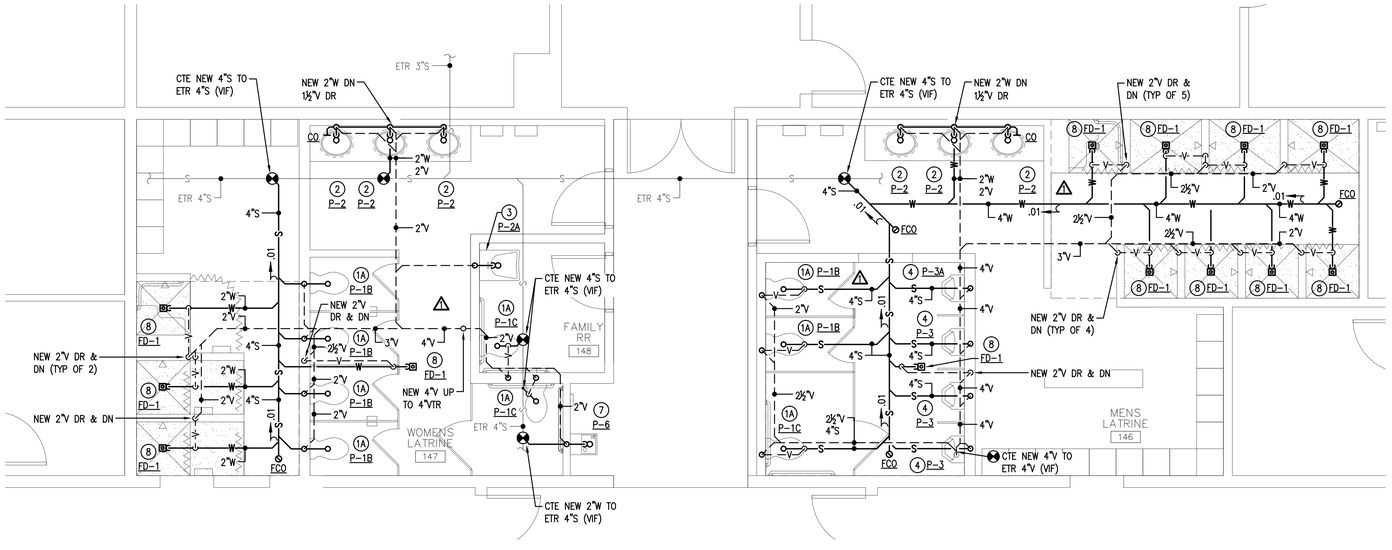
BUILDING 1 – OVERALL FLOOR PLAN

Scale: 1/16" = 1'-0"



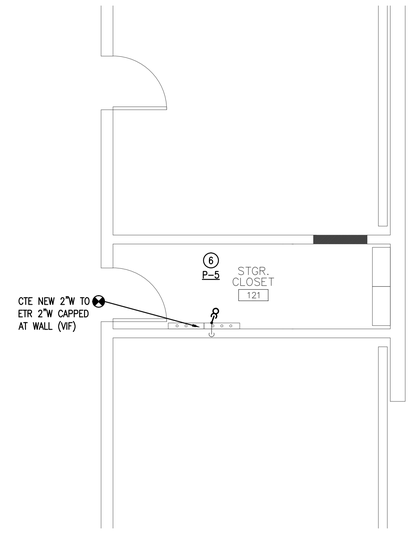
2 / P104 ENLARGED LATRINES PLAN

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



1 / P104 ENLARGED LATRINES PLAN

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



3 / P104 ENLARGED CLOSET PLAN

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

PLUMBING KEYED NOTES

1. NEW WALL MOUNTED FLUSH VALVE WATERCLOSET & CARRIER: 1"CW DR, 4"S DN & 2"V DR
1A. NEW FLOOR MOUNTED FLUSH VALVE WATERCLOSET: 1"CW DR, 4"S DN & 2"V DR
2. NEW COUNTER MOUNTED LAVATORY & FAUCET: 1/2"CW DR, 1/2"HW DR, 1½"W DN, 2"V DR
3. NEW WALL MOUNTED LAVATORY & FAUCET: 1/2"CW DR, 1/2"HW DR, 1½"W DN, 2"V DR
4. NEW WALL MOUNTED FLUSH VALVE URINAL & CARRIER: 3/4"CW DR, 2"S DN, 2"V DR
5. NEW SHOWER ENCLOSURE & VALVE SYSTEM: 1/2"CW DR, 1/2"HW DR, 2"W DN, 2"V DR
6. NEW FLOOR MOUNTED SERVICE SINK & FAUCET: ½"CW DR, ½"HW DR, 3"W DN, 2"V DR
7. NEW WALL MOUNTED DRINKING FOUNTAIN: 1/2"CW DR, 1½"W DN, 1½"V DR
8. NEW 2" FLOOR DRAIN: 2"W DN, 2"V DR
9. NEW WALL MOUNTED HOSE BIBB: 1/2"CW DR

NOTE:
CONNECT ALL NEW DOMESTIC WATER, SANITARY WASTE & VENT AND NATURAL GAS SUPPLY PIPING FROM NEW FIXTURES & EQUIPMENT TO EXISTING RESPECTIVE MAIN LINES. VERIFY EXACT LOCATIONS IN FIELD. TRENCH PIPING AS REQUIRED.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	FIXTURE				FIXTURE			SERVICES					REMARKS
		MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	TYPE	S/W	V	CW	HW	TW	
P-1B	WATER CLOSET	AMERICAN STANDARD	3451.001	FLOOR MOUNTED	1.28 GPF	SLOAN	111-1.28-DFB-ESS	SENSOR FLUSH VALVE	4"	2"	1"	–	–	VITREOUS CHINA, ELONGATED, LOW CONSUMPTION, TOP SPUD, SENSOR FLUSH VALVE, HARD WIRED AC POWERED W/ TRANSFORMER, SLOAN #EL-154 120V, 50/60 Hz. BEMIS #3155SSCT OPEN FRONT SEAT.
P-1C	WATER CLOSET – ADA	AMERICAN STANDARD	3461.001	FLOOR MOUNTED	1.28 GPF	SLOAN	111-1.6-ES-S-TMO	SENSOR FLUSH VALVE	4"	2"	1"	–	–	VITREOUS CHINA, ELONGATED, LOW CONSUMPTION, TOP SPUD, SENSOR FLUSH VALVE, HARD WIRED AC POWERED W/ TRANSFORMER, SLOAN #EL-154 120V, 50/60 Hz. BEMIS #3155SSCT OPEN FRONT SEAT. BARRIER FREE, ADA COMPLIANT.

NOTES:
1. ALL ADA FIXTURES SHALL BE INSTALLED PER ADA REQUIREMENTS.
2. ALL PLUMBING FIXTURES, EQUIPMENT & ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

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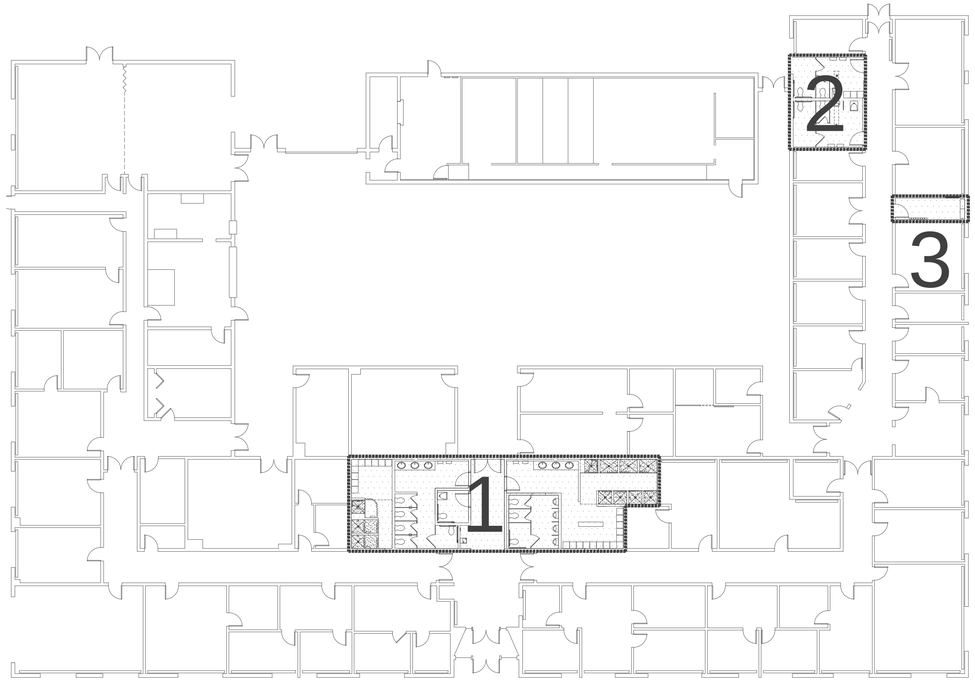
BUILDING 1
NEW FLOOR PLAN
SANITARY, WASTE & VENT - PLUMBING
ALTERNATE #3

Project Number.

Drawing No. P104 2

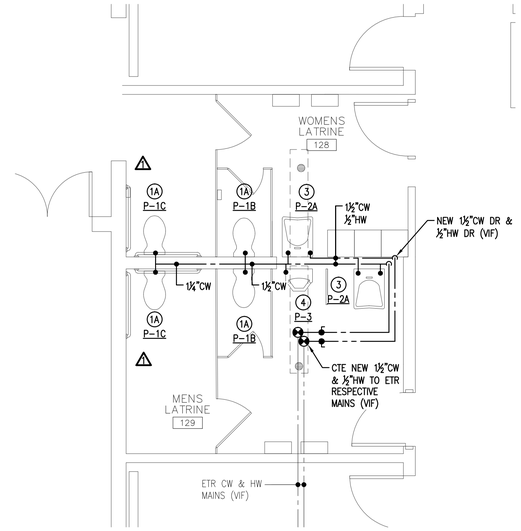
Sheet of

BER-17105



BUILDING 1 – OVERALL FLOOR PLAN

Scale: 1/16" = 1'–0"



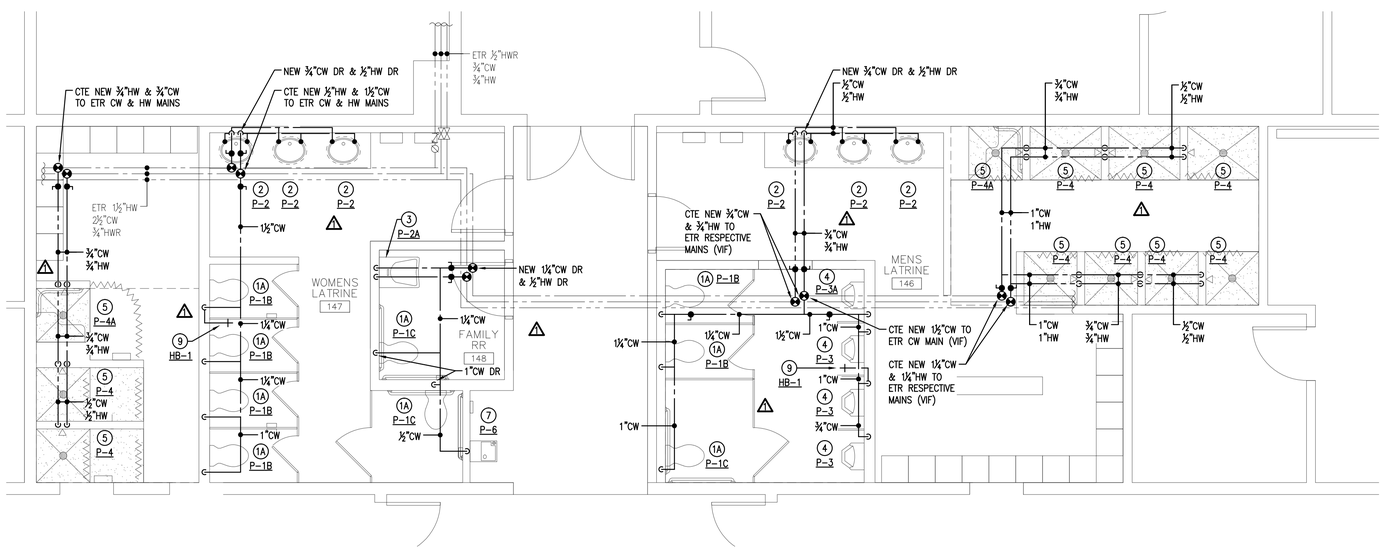
2 ENLARGED LATRINES PLAN

P105 Scale: 1/4" = 1'–0"

PLUMBING KEYED NOTES

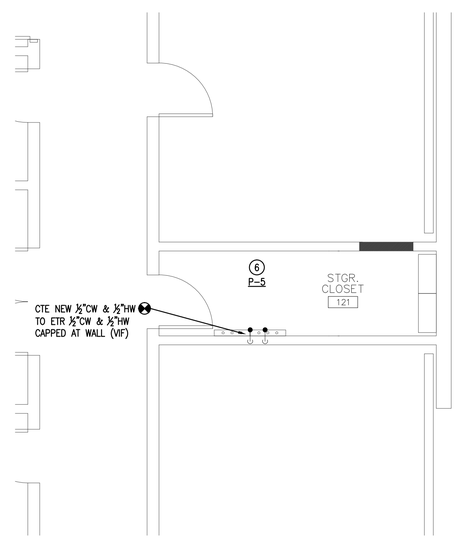
1. NEW WALL MOUNTED FLUSH VALVE WATERCLOSET & CARRIER: 1"CW DR, 4"S DN & 2"V DR
1A. NEW FLOOR MOUNTED FLUSH VALVE WATERCLOSET: 1"CW DR, 4"S DN & 2"V DR
2. NEW COUNTER MOUNTED LAVATORY & FAUCET: 1/2"CW DR, 1/2"HW DR, 1½"W DN, 2"V DR
3. NEW WALL MOUNTED LAVATORY & FAUCET: 1/2"CW DR, 1/2"HW DR, 1½"W DN, 2"V DR
4. NEW WALL MOUNTED FLUSH VALVE URINAL & CARRIER: 3/4"CW DR, 2"S DN, 2"V DR
5. NEW SHOWER ENCLOSURE & VALVE SYSTEM: 1/2"CW DR, 1/2"HW DR, 2"W DN, 2"V DR
6. NEW FLOOR MOUNTED SERVICE SINK & FAUCET: ½"CW DR, ½"HW DR, 3"W DN, 2"V DR
7. NEW WALL MOUNTED DRINKING FOUNTAIN: 1/2"CW DR, 1½"W DN, 1½"V DR
8. NEW 2" FLOOR DRAIN: 2"W DN, 2"V DR
9. NEW WALL MOUNTED HOSE BIBB: 1/2"CW DR

NOTE:
CONNECT ALL NEW DOMESTIC WATER, SANITARY WASTE & VENT AND NATURAL GAS SUPPLY PIPING FROM NEW FIXTURES & EQUIPMENT TO EXISTING RESPECTIVE MAIN LINES. VERIFY EXACT LOCATIONS IN FIELD. TRENCH PIPING AS REQUIRED.



1 ENLARGED LATRINES PLAN

P105 Scale: 1/4" = 1'–0"



3 ENLARGED CLOSET PLAN

P105 Scale: 1/4" = 1'–0"

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Certification

Drawn by AG

Checked by ARV

Revised on

1 ADDENDUM #7 2020 05 29

2 ADDENDUM #9 ALT.#3 CLARIFICATIONS 2020 06 19

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Project

RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

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Drawing Status

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Issued On NOVEMBER 10, 2017

Sheet Contents

BUILDING 1
NEW FLOOR PLAN
DOMESTIC WATER
- PLUMBING
ALTERNATE #3

Project Number.

Drawing No. P105 2

Sheet of

BER-17105

DUCTWORK PLAN GENERAL NOTES

1. UOI, DUCTWORK SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT THAT DUCTWORK HEIGHT SHALL BE ADJUSTED AS NECESSARY FOR THE PROPER INSTALLATION OF EQUIPMENT, PIPING, AND CONDUIT
2. UOI, FLEXIBLE DUCTS ARE ALLOWED ONLY AT CONNECTIONS TO DIFFUSERS AND GRILLES. FLEXIBLE DUCTS SHALL BE MAXIMUM 5'–0" LONG, SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS ONLY, AND SHALL BE SUSPENDED OFF OF THE CEILING.
3. WHERE BRANCH DUCT SIZES TO DIFFUSERS AND GRILLES ARE NOT INDICATED, SEE THE BRANCH DUCT COLUMN OF THE DIFFUSER AND GRILLE SCHEDULE
4. WHERE VOLUME DAMPERS ARE INACCESSIBLE, PROVIDE WORM GEAR DRIVE AND CABLE ASSEMBLIES SIMILAR TO METROPOLITAN AIR TECHNOLOGIES ROTOTWIST MODEL RT–200/250 SERIES WITH MODEL RT–CCR CEILING CAP. TO THE GREATEST EXTENT POSSIBLE, GROUP CEILING CAPS IN SPACES SUCH AS STORAGE ROOMS, CLOSETS, JANITORS ROOMS, MECHANICAL/ELECTRICAL ROOMS, ETC.
5. DUCTWORK VISIBLE THROUGH THE FACE OF DIFFUSERS, GRILLES, AND LOUVERS SHALL BE PAINTED BLACK
6. EXPOSED ROUND DUCTWORK SHALL BE SPIRAL LOCKSEAM TYPE
7. DUCTWORK DIMENSIONS INDICATED ARE INSIDE CLEAR DIMENSIONS

PIPING PLAN GENERAL NOTES

1. UOI, BRANCH PIPES TO TERMINAL UNITS SHALL BE AS FOLLOWS:

GPM	BRANCH PIPES	GPM	BRANCH PIPES
0.0 TO 3.0	3/4"	19.1 TO 40.0	2"
3.1 TO 7.0	1"	40.1 TO 70.0	2–1/2"
7.1 TO 12.0	1–1/4"	70.1 TO 120.0	3"
12.1 TO 19.0	1–1/2"	120.1 TO 250.0	4"

2. GRAVITY DRAIN COOLING COIL CONDENSATE PIPING SHALL BE PITCHED DOWNWARD TO DRAIN AT MINIMUM 1/4" PER FOOT. COOLING COIL CONDENSATE PIPING WITHIN THE BUILDING SHALL TERMINATE ABOVE AN INDIRECT WASTE RECEIVER, WITH A MINIMUM 2" AIR GAP ABOVE THE FLOOD RIM OF THE RECEIVER. JANITORS SINKS AND LAUNDRY TUBS MAY BE USED AS RECEIVERS. WHERE THERE ARE NO JANITORS SINKS OR LAUNDRY TUBS WITHIN THE VICINITY FOR PROPER GRAVITY DRAINAGE, PROVIDE TRAPPED, VENTED, AND PRIMED INDIRECT WASTE RECEIVERS CONNECTED TO THE BUILDING PLUMBING SYSTEM AS REQUIRED.

HVAC DEMOLITION GENERAL NOTES

1. ALL DEMOLITION WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FILING ALL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS, PAY ALL REQUISITE FEES AND SECURE ALL PERMITS, INSPECTIONS AND APPROVALS NECESSARY FOR THE LEGAL INSTALLATION AND OPERATION OF THE SYSTEM AND/OR EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
3. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND SERVICES NECESSARY TO REMOVE AND DISPOSE OF ALL EXISTING HVAC SYSTEM
4. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO REMOVE THE EXISTING HVAC SYSTEM COMPLETELY. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
5. EQUIPMENT AND DUCTWORK LAYOUTS ON THIS DRAWING ARE DIAGRAMMATIC ONLY AND SHALL NOT BE CONSTRUED AS BEING 100% ACCURATE. WHERE ITEMS ARE SHOWN TO BE DEMOLISHED OR ALTERED ON THESE PLANS THAT ARE NOT REPRESENTED ACCURATELY, THE DEMOLITION SUBCONTRACTOR SHALL ISSUE FORMAL RFI'S AS REQUIRED PRIOR TO COMPLETING THE REQUIRED WORK.
6. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR DEMOLITION WORK. CONTRACTOR SHALL COORDINATE WITH CONSTRUCTION PHASE PRIOR TO REMOVING ANY PIECE OF EQUIPMENT OR PIPING.
7. WHERE VOIDS OR OPENINGS IN THE DUCTWORK ARE FOUND AND ARE NOT SPECIFICALLY SHOWN TO BE CAPPED OR PATCHED, IT SHALL BE THE INTENT OF THIS DEMOLITION PLAN THAT CAPPING AND PATCHING IS COMPLETED TO PROVIDE A CLOSED/SEALED SUPPLY AIR SYSTEM TO ACCOMMODATE THE NEW WORK.
8. DEMOLITION OF ALL OTHER COMPONENTS SHALL INCLUDE PLACEMENT INTO CONTAINER, REMOVAL FROM SITE AND PROPER DISPOSAL OF, WITH PERMITS AND FEES INCLUDED. REFER TO NEW FLOOR PLANS FOR EXISTING SYSTEMS BEING USED UNDER THE NEW CONSTRUCTION. ALL SYSTEMS FOUND TO BE ABANDONED ARE TO BE REMOVED.
9. COORDINATE ALL SHUT–DOWNS, TIE–INS, ETC., WITH THE G.C. ELECTRICAL MAKE–SAFE OF HVAC EQUIPMENT REQUIRING DEMOLITION SHALL BE COMPLETED BY THE ELECTRICAL SUBCONTRACTOR.
10. DEMOLITION SUBCONTRACTOR MUST PROTECT EXISTING SLAB, WALL, FENCING AND BUILDING STRUCTURE DURING DEMOLITION PHASE. DAMAGE TO EXISTING STRUCTURE SHALL BE REPAIRED AT DEMOLITION SUBCONTRACTORS EXPENSE.
11. PRIOR TO START OF DEMOLITION WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE IF ANY EQUIPMENT CALLED TO BE DISPOSED ON THE PLAN SHALL BE RETURNED TO THE OWNER AND STORED PER OWNERS REQUEST.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AH	AIR HANDLER
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
BMS	BUILDING MANAGEMENT SYSTEM
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CNV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CRD	CEILING RADIATION DAMPER
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
dB	DECIBELS
DAH	DUCTLESS AIR HANDLER
DHP	DUCTLESS HEAT PUMP
DN	DOWN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EBB	ELECTRIC BASEBOARD
E.C.	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FN	FURNACE
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
HW	HOT WATER
IN	INCHES
IPLV	INTEGRATED PART LOAD VALUE
IN WG	INCHES WATER GAUGE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU / HOUR
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE (DRY BULB)
ODB	OUTSIDE DRY BULB TEMPERATURE
OWB	OUTSIDE WET BULB TEMPERATURE
P	PUMP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RE	REMOVE EXISTING
RF	RETURN FAN
RPM	REVOLUTIONS PER MINUTE
RPZB	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SST	SATURATED SUCTION PRESSURE
TF	TRANSFER FAN
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UOI	UNLESS OTHERWISE INDICATED
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WPD	WATER PRESSURE DROP

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK (DOUBLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (DOUBLE LINE)
	DUCTWORK (SINGLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (SINGLE LINE)
	FLEXIBLE DUCTWORK
	DUCTWORK, PIPING AND EQUIPMENT TO BE DEMOLISHED
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP
	RECTANGULAR/ROUND RETURN AIR DUCTWORK UP
	RECTANGULAR/ROUND EXHAUST AIR DUCTWORK UP
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN
	RECTANGULAR/ROUND RETURN AIR DUCTWORK DOWN
	RECTANGULAR/ROUND EXHAUST AIR DUCTWORK DOWN
	VOLUME DAMPER
	CONTROL DAMPER
	FIRE DAMPER OR CEILING RADIATION DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	GRAVITY BACKDRAFT DAMPER
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
	ELBOW UP
	ELBOW DOWN
	TEE DOWN
	TEE UP
	PIPE GUIDE
	PIPE ANCHOR
	FLOW DIRECTION
	PIPE CLEANOUT
	CONNECT TO EXISTING
	AIR ENTERING OPENING
	AIR LEAVING OPENING
T	THERMOSTAT OR TEMPERATURE SENSOR
	CONTROL CONNECTION

TAG LEGEND

EQUIPMENT (REQUIRING POWER)	EQUIPMENT DESIGNATION NUMBER
EQUIPMENT (NON–POWERED)	EQUIPMENT DESIGNATION NUMBER
REGISTERS, GRILLES & DIFFUSERS	TYPICAL FOR # DESIGNATION BALANCE TO CFM INDICATED
SECTION CALL–OUT	DESIGNATION DRAWING REFERENCE

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Certification

Drawn by JPK

Checked by GAA

Revised on

1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

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Sheet Contents

MECHANICAL LEGENDS, ABBREVIATIONS AND NOTES
ALTERNATE #3

Project Number.

Drawing No. 1 M000

Sheet of

BER-17105

DIFFUSER AND GRILLE SCHEDULE

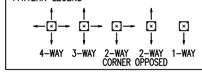
GENERAL	PHYSICAL		REMARKS		
TAG	BLOW PATTERN	MANUFACTURER MODEL	TYPE	FEATURES	INSTALL
S2W	2W	PRICE MODEL AMX	1	1 2	1 2 3
S3W	3W	PRICE MODEL AMX	1	1 2	1 2 3
S4W	4W	PRICE MODEL AMX	1	1 2	1 2 3
R-1	RETURN	PRICE MODEL 635	2	1	1 2 3

1. LOUVERED HIGH INDUCTION DIRECTIONAL CEILING DIFFUSER, SQUARE/ RECTANGULAR NECK & FACE, ALUMINUM CONSTRUCTION, WHITE FINISH.
2. RETURN/EXHAUST GRILLE, 45° FIXED BLADES ON 1/2" CENTERS, BLADES PARALLEL TO LONG DIMENSION, ALUMINUM, WHITE

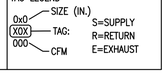
1. CEILING MOUNT, PROVIDE LAY-IN T-BAR PANEL FOR LOUVERED DIFFUSERS, REGISTERS AND GRILLES IN ACT CEILINGS, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING TYPE
2. INSULATED BACK PAN

1. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM MOUNTING TYPE
2. PROVIDE A DUCT MOUNTED VOLUME DAMPER
   EXCEPTIONS:
   - TRANSFER AIR APPLICATIONS (GRILLE IS NOT CONNECTED BY A DUCTWORK SYSTEM TO A FAN)
   - EXHAUST AND RETURN GRILLES WHERE ONLY ONE GRILLE SERVES THE FAN/AIR HANDLING SYSTEM
3. REFER DETAIL

PATTERN LEGEND



TAG LEGEND



FAN SCHEDULE

GENERAL			PERFORMANCE					ELECTRICAL				PHYSICAL		REMARKS			
TAG	LOCATION	SERVICE	CFM	ESP (IN WG)	FAN RPM	BHP	SONES	FLA	HP	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EF-2	BUILDING 1 ROOF	TOILET EXHAUST	1025	.50	1505	–	8.5	5.8	1/4	115	1	63.0	GREENHECK G-103-A	1	–	1 2 3 4 5	1
EF-4	BUILDING 3 SIDEWALL	TOILET EXHAUST	975	.75	1591	–	9.6	8.5	1/4	115	1	58.0	GREENHECK CW-101-A	2	–	2 3 4 5	1
EF-9	BUILDING 1 ROOF	JANITOR CLOSET EXHAUST	75 –	.25	1382	–	2.8	–	1/60	115	1	33.0	GREENHECK G-060-D	1	–	1 2 3 4 5	1
EF-10	BUILDING 1 ROOF	TOILET EXHAUST	250	.25	1478	–	4.1	–	1/30	115	1	34.0	GREENHECK G-070-D	1	–	1 2 3 4 5	1

1. CENTRIFUGAL ROOF EXHAUSTER, DOWNBLAST, DIRECT DRIVE
2. CENTRIFUGAL WALL EXHAUSTER, DIRECT DRIVE

1. AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211
2. SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311

1. ROOF CURB WITH RUBBER SEAL
2. NON-FUSED DISCONNECT SWITCH
3. GRAVITY BACKDRAFT DAMPER
4. BIRDSCREEN
5. UNIT MOUNTED SPEED CONTROLLER

1. INSTALL PER MANUFACTURERS INSTRUCTIONS

HYDRONIC FIN TUBE SCHEDULE

GENERAL		PERF.	PHYSICAL										REMARKS			
TAG	LOCATION	BTUH PER FOOT	ENCLOSURE WIDTH (IN)	ENCLOSURE HEIGHT (IN)	MOUNTING HEIGHT (IN)	TIERS NUMBER	TIERS CENTERS (IN)	ELEMENT TUBE SIZE (IN)	ELEMENT FIN WIDTH (IN)	ELEMENT FIN HEIGHT (IN)	ELEMENT FINS PER FT	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
FTR-1	FAMILY RR-148	630	3-1/8"	10-11/16"	–	1.0	–	3/4"	2-3/4"	2-1/2"	60	STERLING LB2	1	1	–	1 2

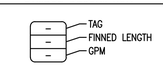
1. LIGHT COMMERCIAL SLOPE TOP

1. 170°F AVERAGE WATER TEMPERATURE

1. COPPER TUBE, 0.010" THICK ALUMINUM FINS
2. 16 GAUGE STEEL ENCLOSURE WITH FULL BACK PLATE
3. BAKED ENAMEL FINISH, COLOR SELECTABLE BY ARCHITECT

1. SEE DETAIL ON THIS DRAWING
2. INSTALL PER MANUFACTURERS INSTRUCTIONS

SYMBOL DESCRIPTION



CABINET UNIT HEATER SCHEDULE

GENERAL		PERFORMANCE						ELECTRICAL				PHYSICAL	REMARKS			
TAG	LOCATION	MBH	GPM	WPD (FT WG)	LAT (°F)	CFM	FAN SPEED	WATTS	HP	VOLTAGE	PHASE	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
CUH-1	WOMAN'S LATRINE 147	11.8	.50	.02	119.0	185	LOW	–	1/15	115	1	STERLING RC-1200-02	1	1	1 2 3	1 2
CUH-2	WOMAN'S LATRINE 147	11.8	.50	.02	119.0	185	LOW	–	1/15	115	1	STERLING RC-1200-02	1	1	1 2 3	1 2
ADD ALTERNATE #1 CUH-3	CORRIDOR	16.2	1.50	.15	125.0	230	LOW	–	1/15	115	1	STERLING F-1000-02	2	1	1 2 3	1 2
CUH-4	MEN'S LATRINE 146	11.8	.50	.02	119.0	185	LOW	–	1/15	115	1	STERLING RC-1200-02	1	1	1 2 3	1 2
CUH-5	MEN'S LATRINE 146	11.8	.50	.02	119.0	185	LOW	–	1/15	115	1	STERLING RC-1200-02	1	1	1 2 3	1 2

1. RECESSED CEILING, BOTTOM INLET GRILLE, BOTTOM DISCHARGE GRILLE
2. FLOOR MODEL, BOTTOM INLET GRILLE, TOP DISCHARGE GRILLE

1. 180° EWT, 160°F LWT, 60°F EAT

1. EXTRUDED ALUMINUM GRILLE INLET & OUTLET
2. BAKED ENAMEL FINISH, COLOR SELECTABLE BY ARCHITECT
3. DPST DISCONNECT SWITCH

1. SEE DETAIL ON THIS DRAWING
2. INSTALL PER MANUFACTURERS INSTRUCTIONS

DUCTLESS SPLIT AIR CONDITIONING SYSTEM AIR HANDLER SCHEDULE

GENERAL			PERFORMANCE							ELECTRICAL				PHYSICAL	REMARKS			
TAG	LOCATION	MATCHED COND. UNIT	NOMINAL TONS	TOTAL COOLING MBH	TOTAL HEATING MBH	FAN CFM	FAN ESP (IN WG)	FAN SPEED	SOUND PRESSURE DBA	MCA	MOP	VOLTAGE	PHASE	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
AH-1	IT SERVER ROOM	CU-1	1.0	12,000	11,800	380	–	HIGH	42	0.2	15.0	208	1	CARRIER 40MAQB12-3	1	1	1 2 3	1 2 3
AH-2	MEN'S LATRINE 318	CU-2	6.0	76,800	85,200	2,048	–	HIGH	45	3.80	15.0	208	1	TRANE 4TVA0076B100N	2	1	1 2 3	1 2 3
AH-3	WOMAN'S LATRINE 321	CU-3	6.0	76,800	85,200	2,048	–	HIGH	45	3.80	15.0	208	1	TRANE 4TVA0076B100N	2	1	1 2 3	1 2 3

1. HIGH WALL MOUNTED UNIT
2. CONCEALED DUCTED UNIT

1. RATED PER AHRI

1. HARD WIRED WALL MOUNTED PROGRAMMABLE THERMOSTAT
2. BUILT-IN CONDENSATE PUMP
3. HARD WIRED CONTROLLER

1. REFRIGERANT PIPING, CONDENSATE PIPING, CONTROL WIRING AND CONDUIT, POWER WIRING AND CONDUIT, RELAYS AND OTHER DEVICES SHALL BE CONCEALED.. LOCATE DEVICES REQUIRING ACCESS IN ACCESSIBLE LOCATIONS. COORDINATE LOCATIONS WITH ARCHITECT AND PROVIDE ACESSPANELS WHERE REQUIRED.
2. AH-1, 2, & 3. THE DEDICATED THERMOSTAT SHALL BE SET TO MAINTAIN SPACE TEMPERATURE DETERMINED BY THE OWNER.
3. INDOOR UNIT POWERED BY OUTDOOR UNIT.

DUCTLESS SPLIT AIR CONDITIONING SYSTEM CONDENSING UNIT SCHEDULE

GENERAL			PERFORMANCE		ELECTRICAL				PHYSICAL		REMARKS			
TAG	LOCATION	MATCHED AIR HANDLER	NOMINAL TONS	EER	MCA	MOP	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
CU-1	ROOF	SEE PLAN	1.0	12.5	9.0	15.0	208	1	91.50	CARRIER 38MAQB12R-3	1	1	1 2	1
CU-2	ROOF	SEE PLAN	12.0	10.8	52.6	70.0	208	3	646.0	TRANE 4TVH0144	2	1	1 2	1

1. SINGLE INDOOR UNIT HEAT PUMP SYSTEM (R-410A)
2. MULT-HEAD HEAT PUMP SYSTEM

1. COOLING OPERATION BASED ON AHRI CONDITIONS: 95°F ODB AND INDOOR: 80°F EDB, 67°F EWB

1. WIND BAFFLE (LOW AMBIENT COOLING DOWN TO 0 DEGREES)
2. DISCONNECT SWITCH

1. PROVIDE SPLIT SYSTEM REFRIGERANT PIPING BETWEEN AIR HANDLER AND MATCHED CONDENSING UNIT, SIZED AND CONFIGURED PER THE MANUFACTURER'S RECOMMENDATIONS, ROUTE PIPING CONCEALED TO THE GREATEST EXTENT POSSIBLE. SEAL ROOF PIPING PENETRATIONS WATERTIGHT.

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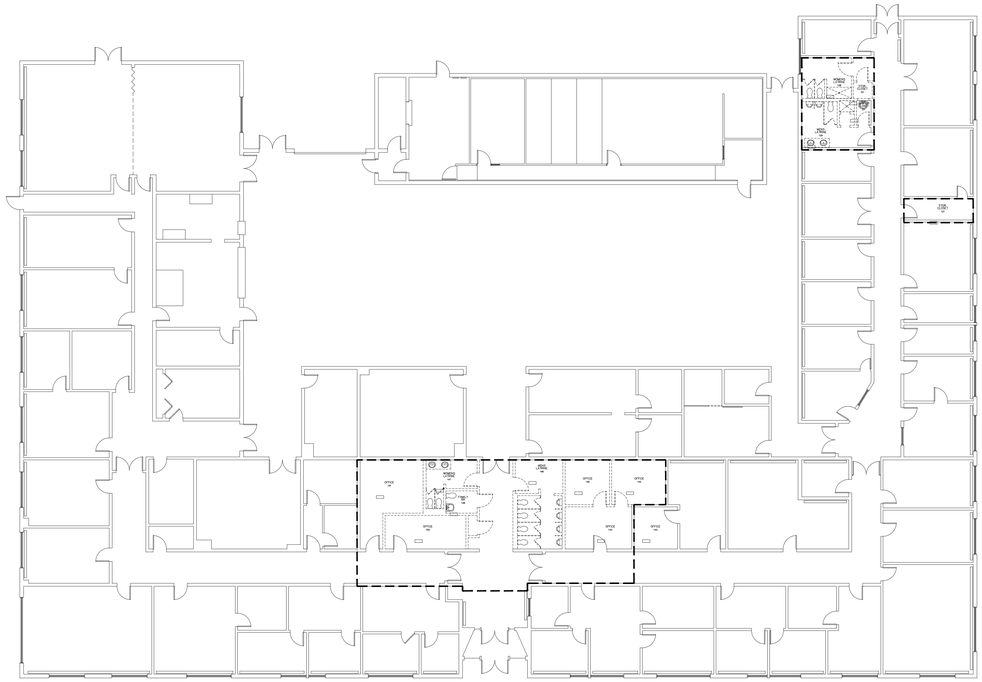
MECHANICAL SCHEDULES ALTERNATE #3

Project Number.

Drawing No. 1 M001

Sheet of

BER-17105



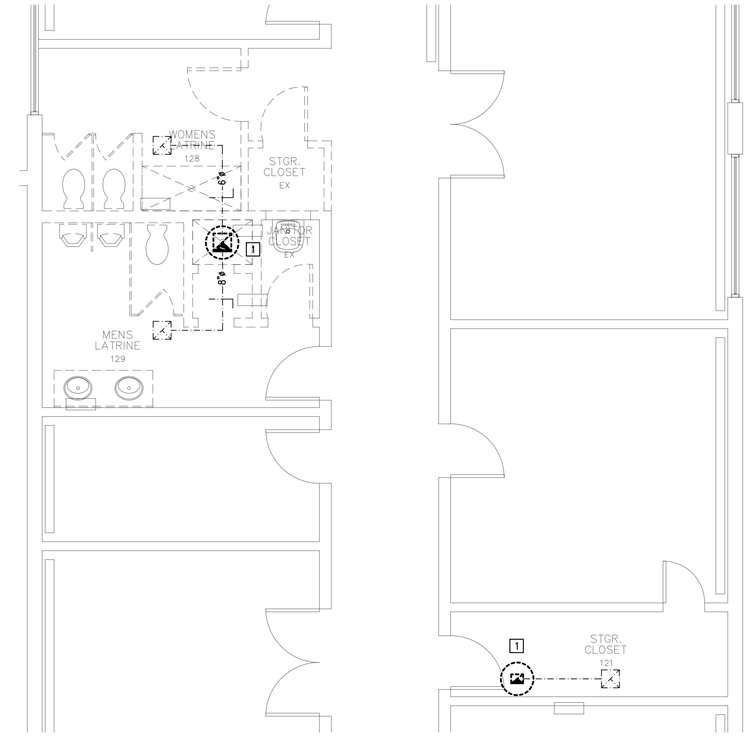
BUILDING 1 – OVERALL KEY PLAN

Scale: 1/16" = 1'–0"

DEMOLITION PLAN LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO BE DEMOLISHED (SHOWN IN HEAVY DASHED LINES)
	EXISTING TO REMAIN (SHOWN IN LIGHT LINES)
ETR	EXISTING TO REMAIN AS INSTALLED.

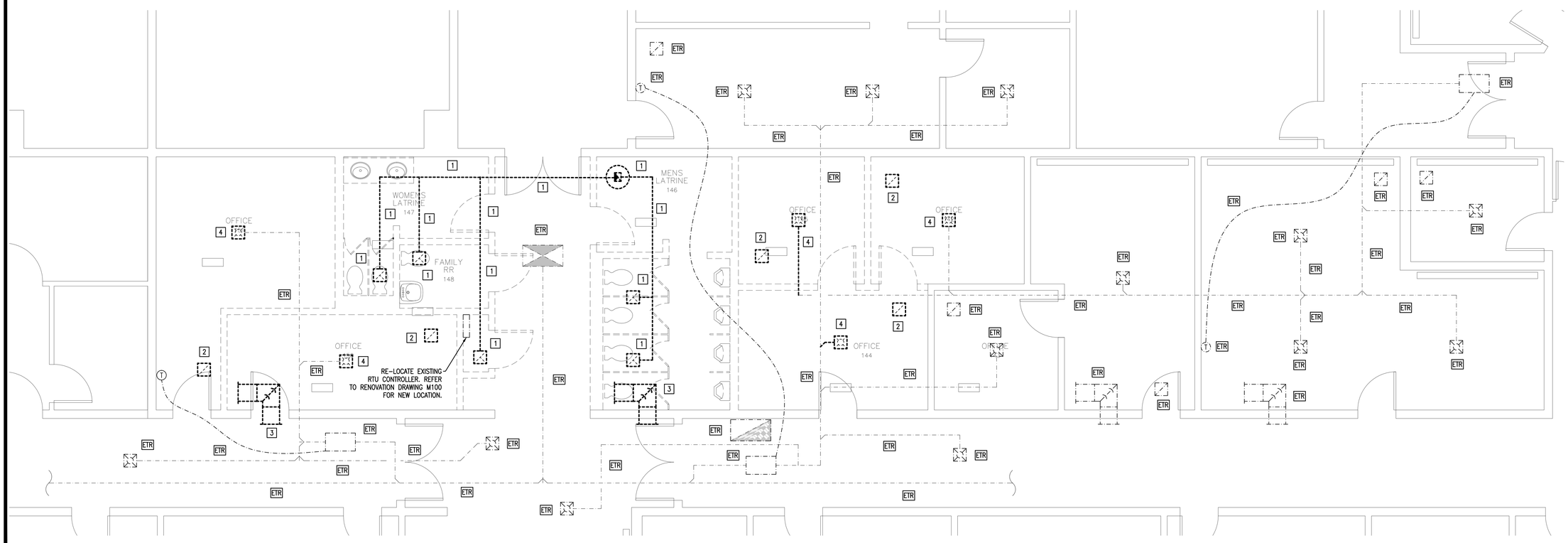
MECHANICAL DEMOLITION KEYED NOTES:

1. REMOVE & DISCARD EXISTING ROOF MOUNTED EXHAUST FAN, DUCTWORK, AND ALL ASSOCIATED APPURTENANCES TO POINT INDICATED ON DRAWING.
2. REMOVE & DISCARD EXISTING PLENUM RETURN GRILLES.
3. REMOVE & DISCARD EXISTING TRANSFER DUCTWORK, HANGERS, AND ALL ASSOCIATED APPURTENANCES IN ITS ENTIRETY.
4. REMOVE & DISCARD EXISTING SUPPLY GRILLE, AND DUCTWORK TO THE POINT INDICATED ON DRAWING IN ITS ENTIRETY.



2 / M100 ENLARGED LATRINES DUCTWORK DEMOLITION PART PLAN

Scale: 1/4" = 1'–0"



1 / M100 ENLARGED LATRINES DUCTWORK DEMOLITION PART PLAN

Scale: 1/4" = 1'–0"

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BUILDING 1 - DUCTWORK DEMOLITION PLAN ALTERNATE #3

Project Number.

Drawing No. 1 MD100

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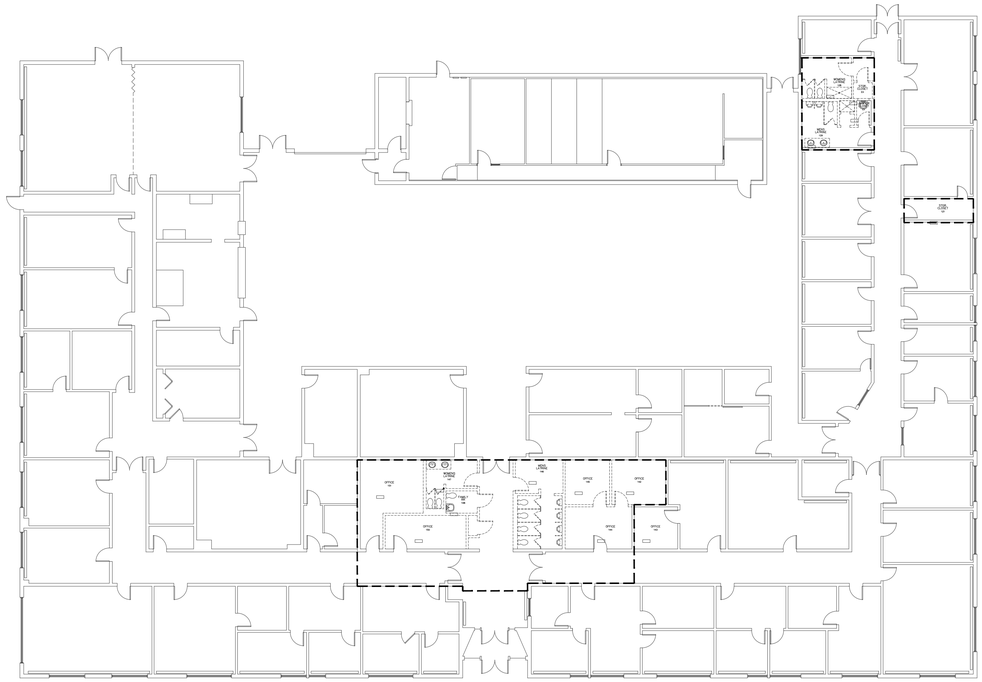
BER-17105



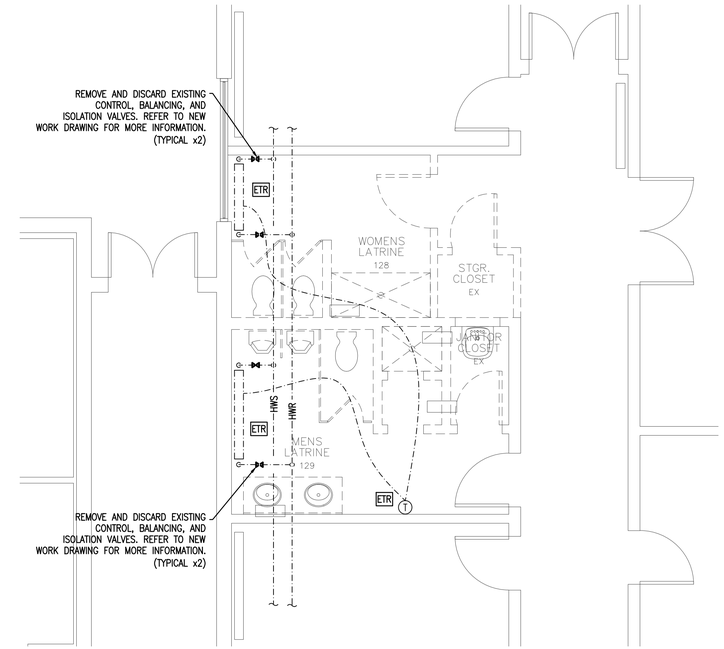
BUILDING 1 – OVERALL KEY PLAN

Scale: 1/16" = 1'-0"

DEMOLITION PLAN LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO BE DEMOLISHED (SHOWN IN HEAVY DASHED LINES)
	EXISTING TO REMAIN (SHOWN IN LIGHT LINES)
ETR	EXISTING TO REMAIN AS INSTALLED.

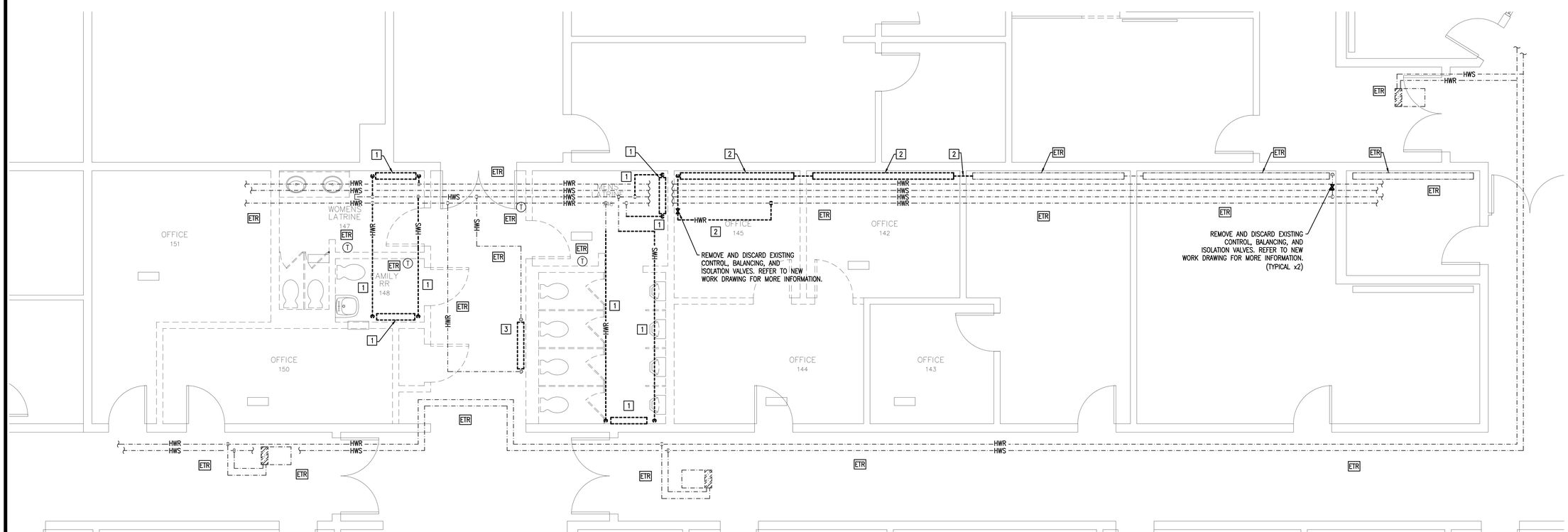
MECHANICAL DEMOLITION KEYED NOTES:

1. REMOVE & DISCARD EXISTING CABINET UNIT HEATER, PIPING, CONTROL VALVES AND ALL ASSOCIATED APPURTENANCES TO POINT INDICATED ON DRAWINGS. REFER TO DRAWING M101 FOR MORE INFORMATION.
2. REMOVE AND DISCARD EXISTING FIN-TUBE RADIATION, PIPING AND CONTROL VALVES WHERE SHOWN ON DRAWING.
3. ADD ALT #1 – REMOVE & DISCARD EXISTING CABINET UNIT HEATER. EXISTING PIPING, CONTROL VALVES AND ALL OTHER ASSOCIATED APPURTENANCES SHALL REMAIN AS INSTALLED. REFER TO DRAWING M101 FOR MORE INFORMATION.



2 ENLARGED LATRINES PIPING DEMOLITION PART PLAN

M100 Scale: 1/4" = 1'-0"



1 ENLARGED LATRINES PIPING DEMOLITION PART PLAN

M100 Scale: 1/4" = 1'-0"

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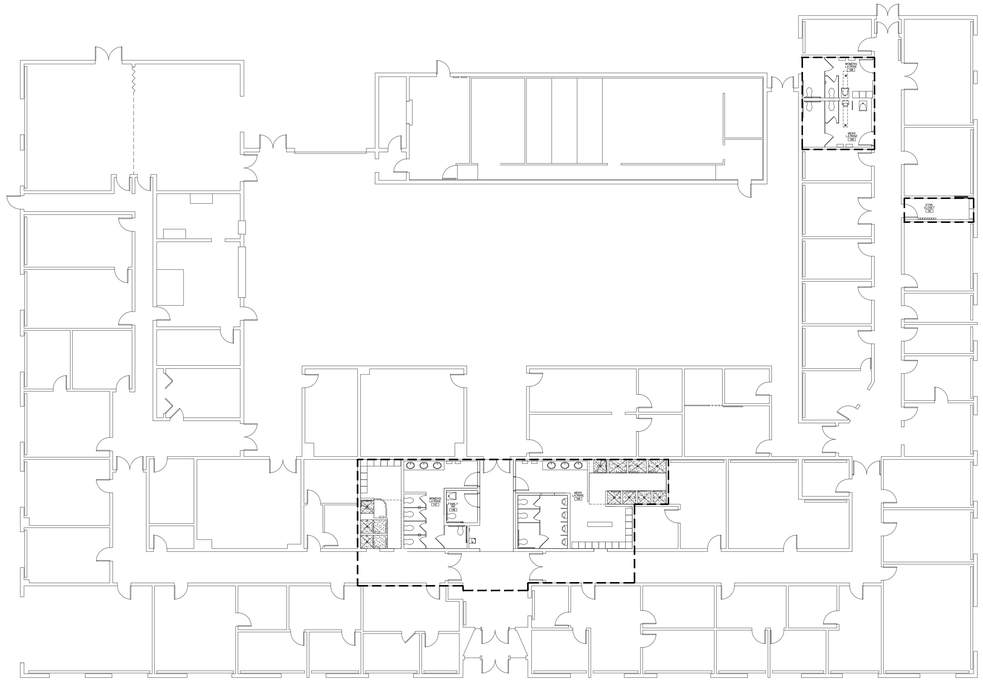
BUILDING 1 - PIPING DEMOLITION PLAN ALTERNATE #3

Project Number.

Drawing No. 1 MD101

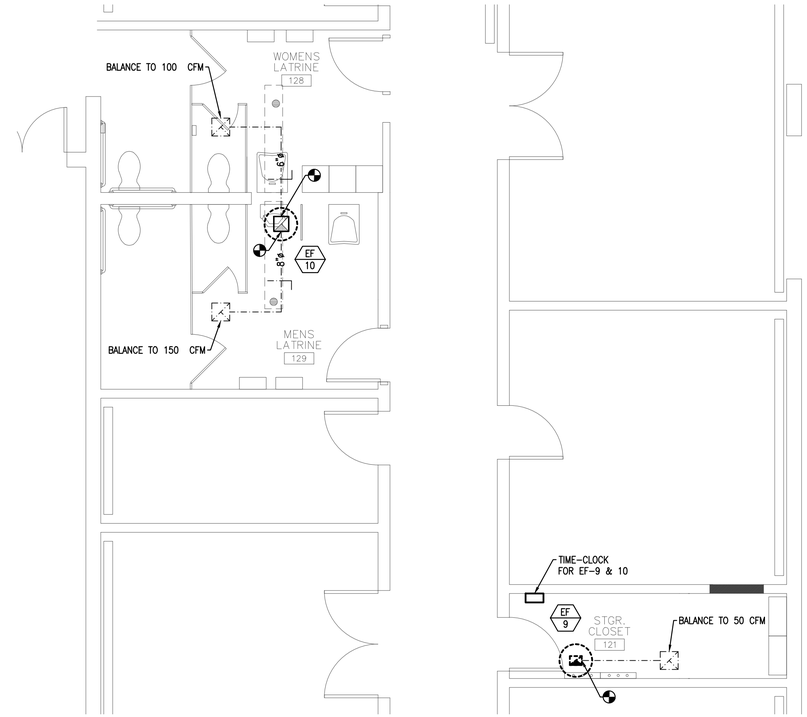
Sheet of

BER-17105



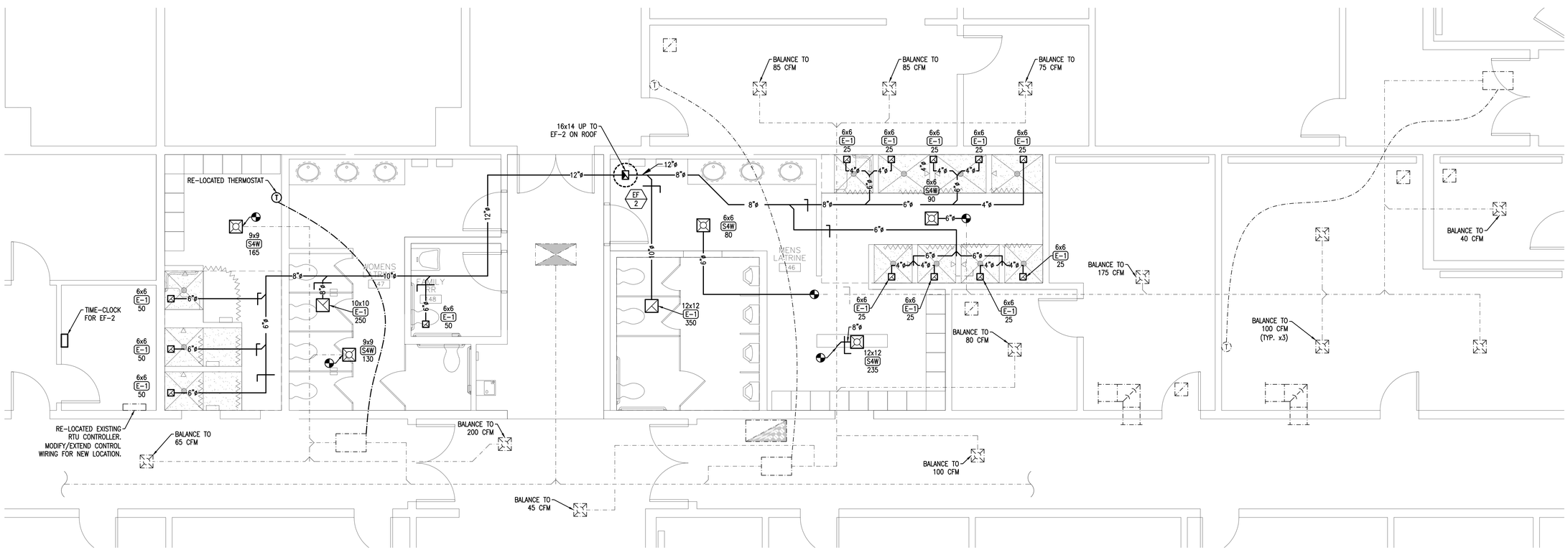
BUILDING 1 – OVERALL KEY PLAN

Scale: 1/16" = 1'–0"



2 M102 ENLARGED LATRINES RENOVATION PLAN

Scale: 1/4" = 1'–0"



1 M102 ENLARGED LATRINES RENOVATION PLAN

Scale: 1/4" = 1'–0"

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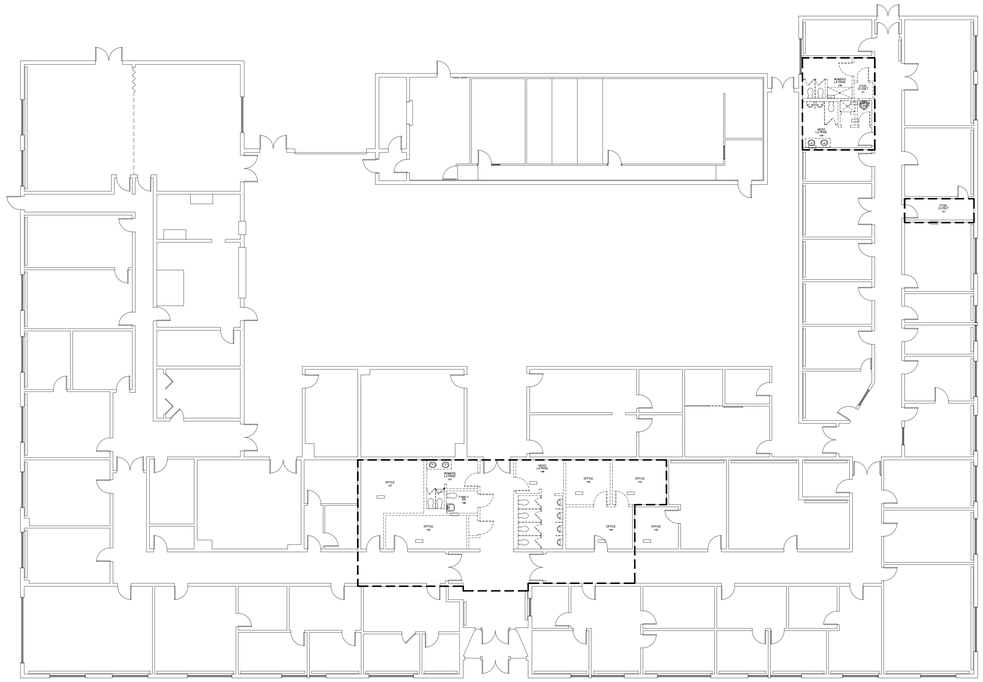
BUILDING 1 - DUCTWORK RENOVATION FLOOR PLAN ALTERNATE #3

Project Number.

Drawing No. 1 M100

Sheet of

BER-17105

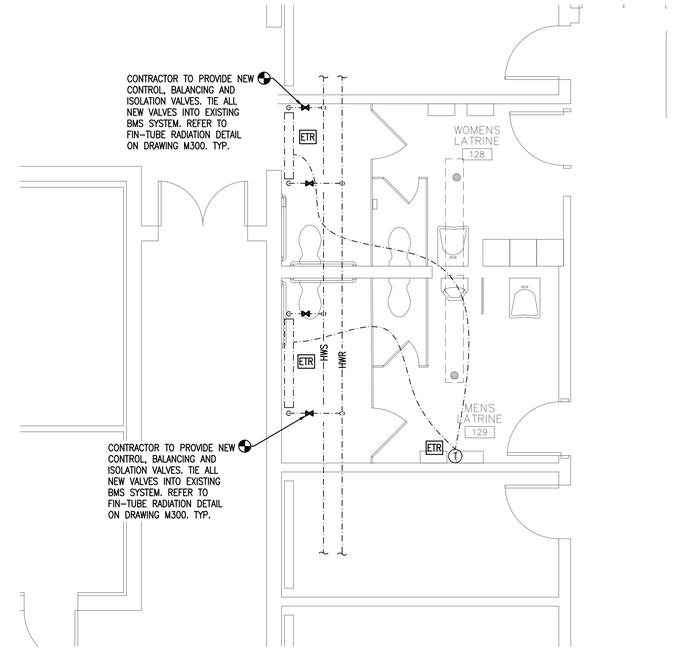


BUILDING 1 – OVERALL KEY PLAN

Scale: 1/16" = 1'–0"

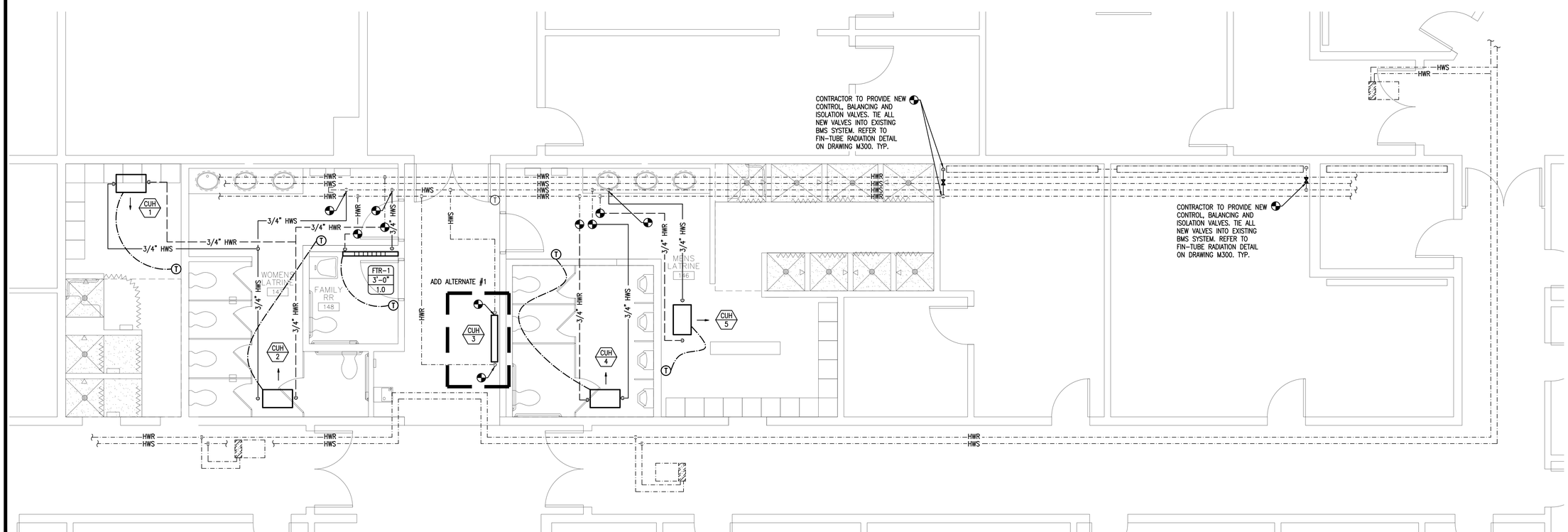
MECHANICAL PIPING NOTES

1. CONTRACTOR SHALL DRAIN ENTIRE SYSTEM AND MAKE SAFE AS REQUIRED TO PERFORM WORK. AT THE COMPLETION OF NEW WORK, CONTRACTOR SHALL FILL THE SYSTEM AND MAINTAIN 40% PROPYLENE GLYCOL THROUGHOUT THE SYSTEM.
2. CONTRACTOR SHALL PROVIDE NEW CONTROL, BALANCING AND ISOLATION VALVES FOR ALL NEW CABINET UNIT HEATERS AND FIN–TUBE RADIATION. REFER TO DETAILS ON DRAWING M300. ALL NEW CONTROL VALVES SHALL BE TIED INTO EXISTING BMS SYSTEM.



2 / M100 ENLARGED LATRINES PIPING RENOVATION PART PLAN

Scale: 1/4" = 1'–0"



1 / M100 ENLARGED LATRINES PIPING RENOVATION PART PLANS

Scale: 1/4" = 1'–0"

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BUILDING 1 - PIPING RENOVATION PLANS ALTERNATE #3

Project Number.

Drawing No. 1 M101

Sheet of

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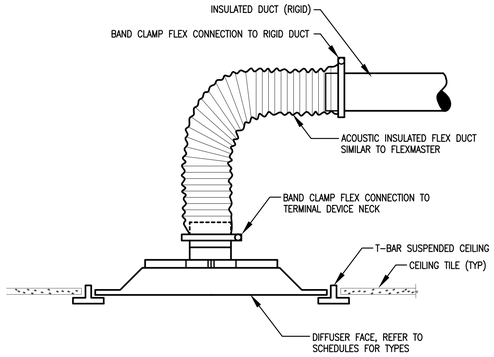
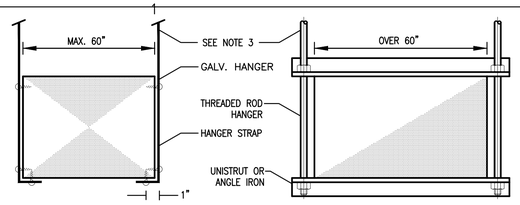
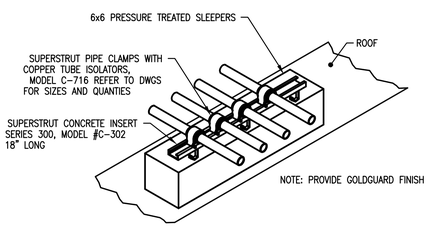


GRID CEILING DIFFUSER/REGISTER CONNECTION DETAIL | NTS

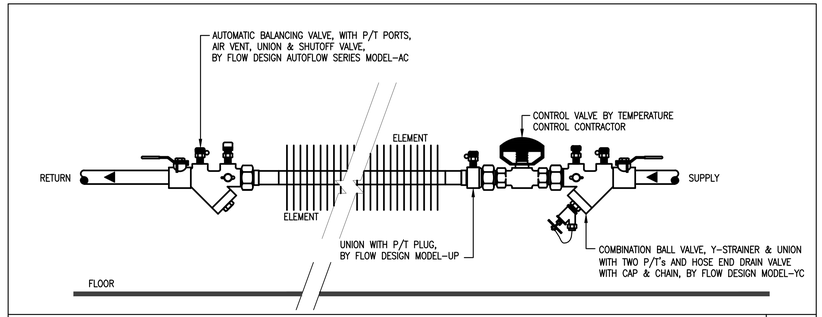


NOTES:
1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ. FT., DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. SUPPORTS SHALL BE SPACED AND SIZED PER SMACNA STANDARDS.

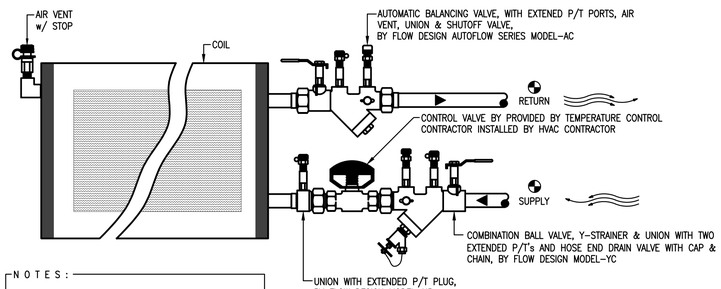
DUCT HANGER/SUPPORT DETAIL | NTS



REFRIGERANT PIPE SUPPORT DETAIL | NTS

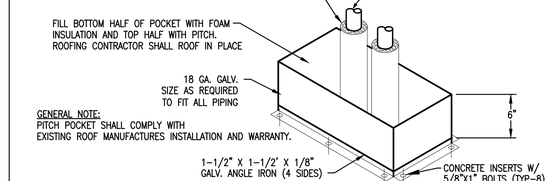


TYPICAL FIN-TUBE RADIATION PIPING DETAIL | NTS



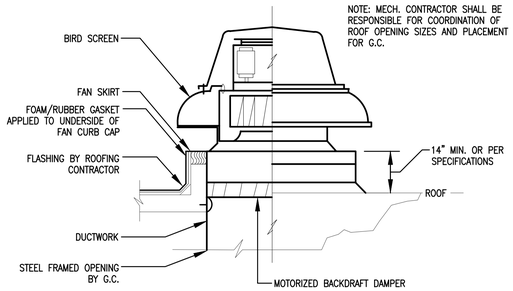
N O T E S :
1. VALVES SHALL BE INSTALLED IN A MANNER WERE ALL PORTS, LEVERS, DRAIN CONNECTION, AND ANY COMPONENTS OF VALVES AND FAN COIL UNIT IS EASILY ACCESSIBLE.
2. DO NOT INSULATE HEATING VALVE BODY.

TYPICAL CUH COIL PIPING DETAIL | NTS

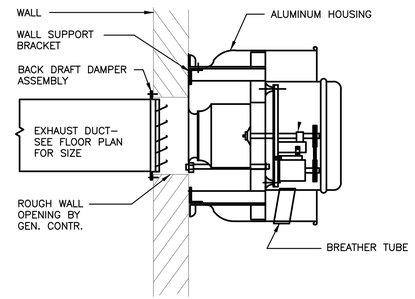


GENERAL NOTE:
PITCH POCKET SHALL COMPLY WITH EXISTING ROOF MANUFACTURES INSTALLATION AND WARRANTY.

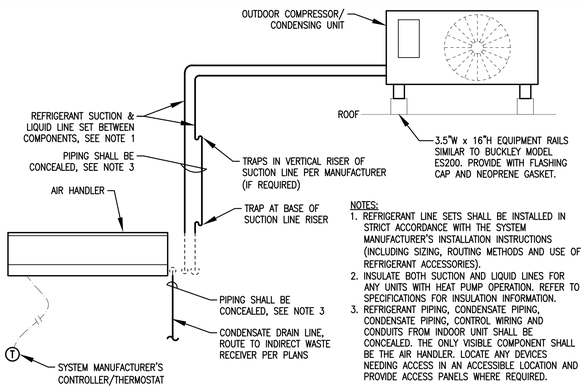
PITCH POCKET DETAIL FOR REFRIGERANT LINES | NTS



ROOF MOUNTED EXHAUST FAN DETAIL | NTS



WALL MOUNTED EXHAUST FAN DETAIL | NTS



NOTES:
1. REFRIGERANT LINE SETS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE SYSTEM MANUFACTURER'S INSTALLATION INSTRUCTIONS (INCLUDING SIZING, ROUTING METHODS AND USE OF REFRIGERANT ACCESSORIES).
2. INSULATE BOTH SUCTION AND LIQUID LINES FOR ANY UNITS WITH HEAT PUMP OPERATION. REFER TO SPECIFICATIONS FOR INSULATION INFORMATION.
3. REFRIGERANT PIPING, CONDENSATE PIPING, CONDENSATE PIPING, CONTROL WIRING AND CONDUITS FROM INDOOR UNIT SHALL BE CONCEALED. THE ONLY VISIBLE COMPONENT SHALL BE THE AIR HANDLER. LOCATE ANY DEVICES NEEDING ACCESS IN AN ACCESSIBLE LOCATION AND PROVIDE ACCESS PANELS WHERE REQUIRED.

SPLIT SYSTEM REFRIGERANT PIPING DETAIL | NTS

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MECHANICAL DETAILS ALTERNATE #3

Project Number.
Drawing No. 1 M300
Sheet of

BER-17105

LEGEND

* MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS
* ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

RACEWAYS AND WIRING

P4–1,3,5 — SINGLE PHASE HOMERUNS TO PANELBOARD. "P4" DENOTES PANEL, "1,3,5" DENOTES CIRCUIT NUMBERS, [(3) 20A, 1P CIRCUITS] NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C. NO SLASH MARKS INDICATE 2#12 & 1#12G–3/4"C UNLESS INDICATED OTHERWISE.

P4–2, 20/3 — MULTI–POLE HOMERUN TO PANELBOARD. "P4" DENOTES PANEL, "2" DENOTES CIRCUIT NUMBER, 20 AMP 3 POLE C/B. NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C.

NOTES:
1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

LIGHTING FIXTURES (REFER TO LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE TYPE)

A, 2a — LIGHTING FIXTURE CEILING OR RECESSED MOUNTED. "A" DENOTES FIXTURE TYPE, "2" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL,

ROUND RECESSED LIGHTING FIXTURE

EB — SELF–CONTAINED EMERGENCY LIGHTING UNIT

LIGHTING CONTROL DEVICES

Soc ab, Svs ab — SINGLE POLE TOGGLE SWITCH. "a" DENOTES FIXTURE CONTROL. "oc" DENOTES INTEGRAL OCCUPANCY SENSOR, "vs" DENOTES INTEGRAL VACANCY SENSOR

S3 — THREE WAY TOGGLE SWITCH

SD — DIMMER SWITCH

OS DT — CEILING MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL. REFER TO LIGHTING PLANS FOR EXACT CATALOG NUMBER "DT" DENOTES DUAL TECHNOLOGY

RECEPTACLES (MOUNTED 18" AFF OR AS INDICATED ON ARCHITECTURAL PLANS)

IG GFI 2 WP — DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "GFI" DENOTES GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, "IG" DENOTES ISOLATED GROUND TYPE DEVICE, "WP" DENOTES WEATHER PROOF COVER

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE

TELECOMMUNICATIONS (MOUNTED 18" AFF)

COMBINATION TELEPHONE/DATA OUTLET

FIRE ALARM SYSTEM

F — MANUAL PULL STATION MOUNTED 48" AFF

V — VISUAL ONLY UNIT MOUNTED 80" AFF.

F — CEILING MOUNTED AUDIO/VISUAL STROBE

I SD — PHOTOELECTRIC SMOKE DETECTOR: "I" DENOTES IONIZATION SMOKE DETECTOR

HD 190° — 135° FIXED TEMPERATURE HEAT DETECTOR. "190°" INDICATES 190°F FIXED TEMPERATURE

POWER DISTRIBUTION EQUIPMENT

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

J — JUNCTION BOX, SIZED PER NEC

MECHANICAL EQUIPMENT TAG ABBREVIATIONS

AH / 1 — DENOTES EQUIPMENT TYPE; DENOTES UNIT NUMBER

ACC	AIR–COOLED CONDENSER
AHU	AIR HANDLING UNIT
B	BOILER
CH	CHILLER
CUH	CABINET UNIT HEATER
EBB	ELECTRIC BASEBOARD
EF	EXHAUST FAN
EH	EXHAUST HOOD
EWH	ELECTRIC WALL HEATER
FC	FAN COIL
HP	HEAT PUMP
MAU	MAKE–UP AIR UNIT
P	PUMP
RTU	ROOF TOP UNIT
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME BOX
WH	ELECTRIC WATER HEATER

ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
C.T.	CURRENT TRANSFORMER
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
DWG	DRAWING
E	WIRED ON EMERGENCY CIRCUIT
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
ETRL	EXISTING TO BE RELOCATED
ETRP	EXISTING TO BE REPLACED
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
IG	ISOLATED GROUND
KCMIL	ONE THOUSAND CIRCULAR MILS
KVA	KILOVOLT–AMPERES
KVAR	KILOVOLT–AMPERES REACTIVE
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
ø	PHASE
P	POLE
PC	PLUMBING CONTRACTOR
P.T.	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RL	NEW LOCATION OF RELOCATED DEVICE
SM	SURFACE MOUNT
ST	SHUNT TRIP
T/D	TEL/DATA
TEL	TELEPHONE
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VIF	VERIFY IN FIELD
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS NUMBER	LAMPS TYPE	LAMPS VOLTS	LAMPS WATTS	REMARKS
A	1' X 4' LED TROFFER	LG# LGE–2X4SC–40–35–4000–TB	1	LED	120	40	– –
B	2' X 2' LED TROFFER	LG# LGE–2X2SC–32–35–3200–TB	1	LED	120	32	– –
C	6" DOWNLIGHT	PEACHTREE LIGHTING# 6BLRD–20–35K–90–SH–RCA–TRW–120	1	LED	120	25	
EB	EMERGENCY BATTERY UNIT	EMERGI–LITE BECM36–2	2	HALOGEN	12	(2) 9	

LIGHTING FIXTURE NOTES:

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH–IN.
4. ALL COMPACT FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE.
5. ALL LAMPS SHALL BE 3500°K.
6. E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

DEMOLITION AND REMOVAL WORK

A. REMOVE ALL ELECTRICAL EQUIPMENT, WIRING, AND OTHER ELECTRICAL WORK AS REQUIRED. DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING DEVICES WHICH ARE TO BE REMOVED OR ABANDONED, REMOVE CONDUCTORS NO LONGER IN USE. CUT BACK TO FLOOR, WALL, OR CEILING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. REMOVE EXPOSED OR ABANDONED CIRCUITS AND OUTLETS. REMOVE MATERIAL AND EQUIPMENT AND DISPOSE OF AS DIRECTED.

B. WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT.

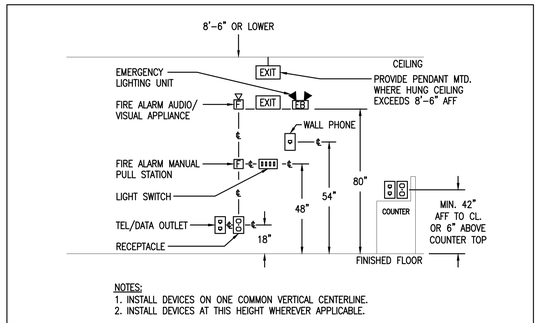
C. THE WORK SHALL ALSO INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIAL FROM PROJECT SITE, THE BUILDING MANAGER OR OWNER WILL INSPECT AND ADVISE WHICH ITEMS WILL BE STORED.

D. WHERE EXISTING RECEPTACLES AND/OR SWITCHES ARE LOCATED IN COLUMNS AND/OR EXTERIOR WALLS, AND ARE NOT TO BE REUSED, REMOVE RECEPTACLE AND CAP OUTLET BOX. RECEPTACLES SHOWN ON PARTITIONS TO BE REMOVED SHALL HAVE ALL WIRING AND CONDUIT REMOVED AS WELL.

E. WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.

F. SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FURNITURE, FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.

G. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER OR OWNER.



NOTES:
1. INSTALL DEVICES ON ONE COMMON VERTICAL CENTERLINE.
2. INSTALL DEVICES AT THIS HEIGHT WHEREVER APPLICABLE.

DETAIL OF TYPICAL DEVICE MOUNTING HEIGHTS — NTS

BRANCH CIRCUIT WIRING NOTES:

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
6. PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
7. WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN, THIS CONTRACTOR SHALL REPLACE SAID DEVICE(S) AND DEVICE PLATE(S) WITH NEW TO MATCH THE NEW CONSTRUCTION. WHERE THEY ARE INDICATED AS RELOCATED, EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND DEVICE PLATE TO MATCH NEW CONSTRUCTION.
8. ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING IN THE BUILDING SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIGHTING CIRCUIT IN THE AREA WITH 2 #12, #12G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.

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1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
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Project

RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

541 AIRPORT ROAD, WARWICK, RI 02886

Drawing Status

ISSUED FOR CONSTRUCTION

Issued On NOVEMBER 10, 2017

Sheet Contents

ELECTRICAL - LEGEND, NOTES & SCHEDULES ALTERNATE #3

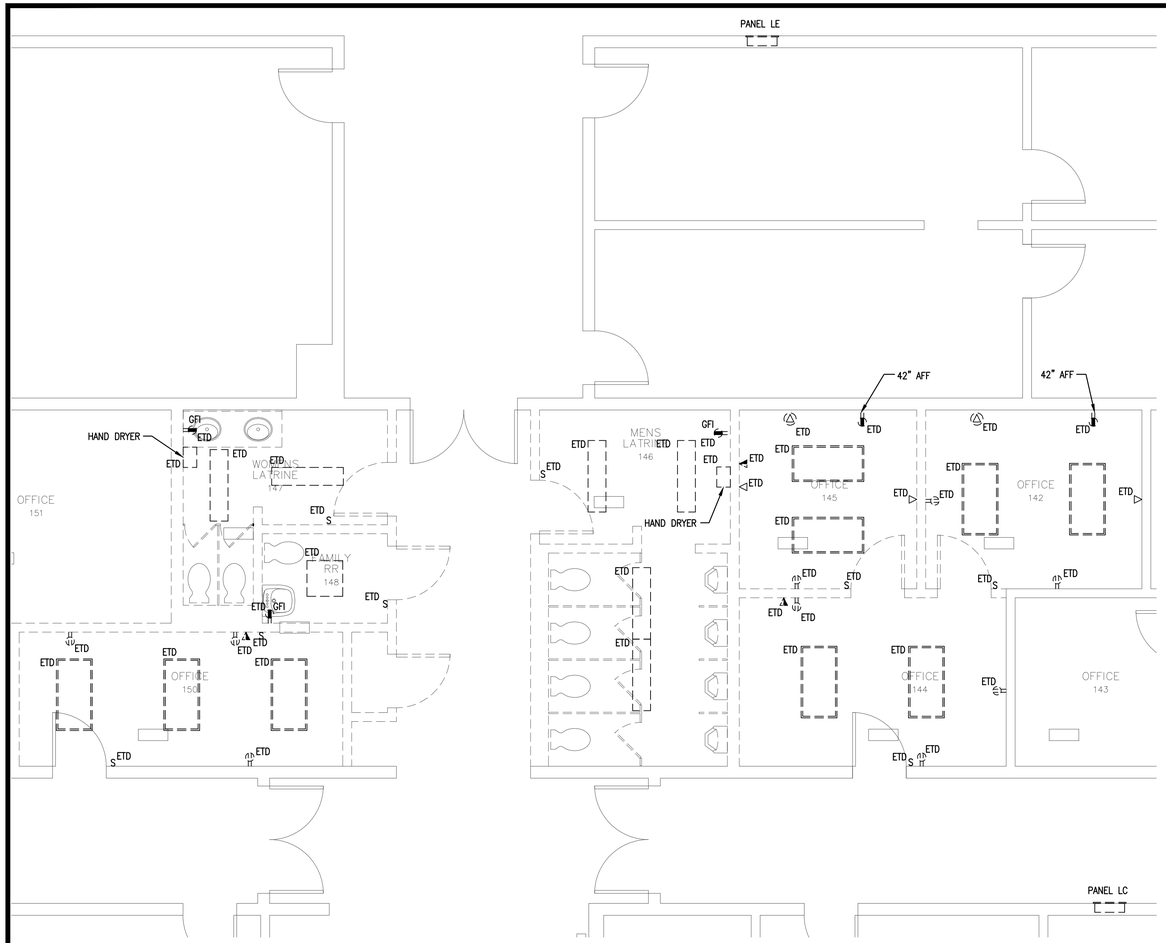
Project Number.

Drawing No.

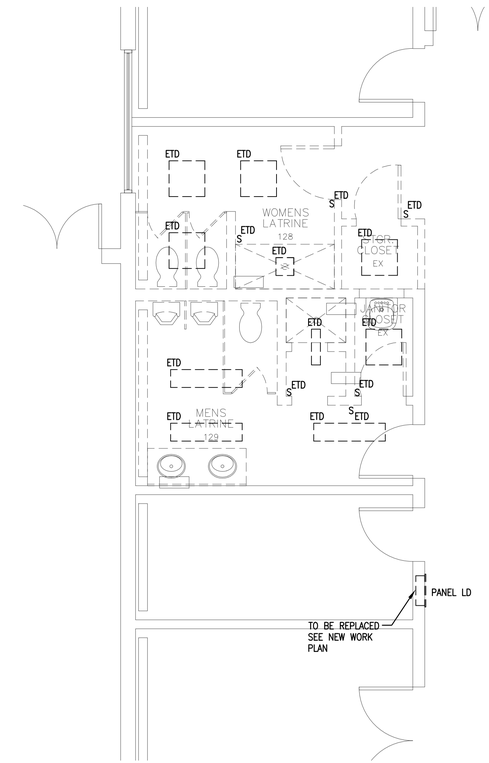
1 E001

Sheet of

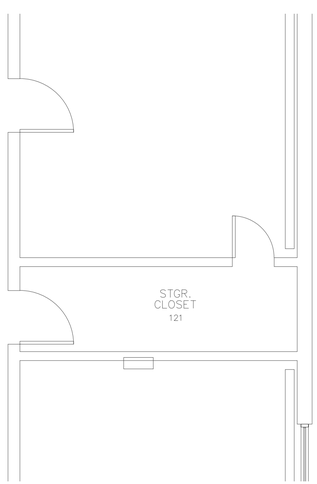
BER-17105



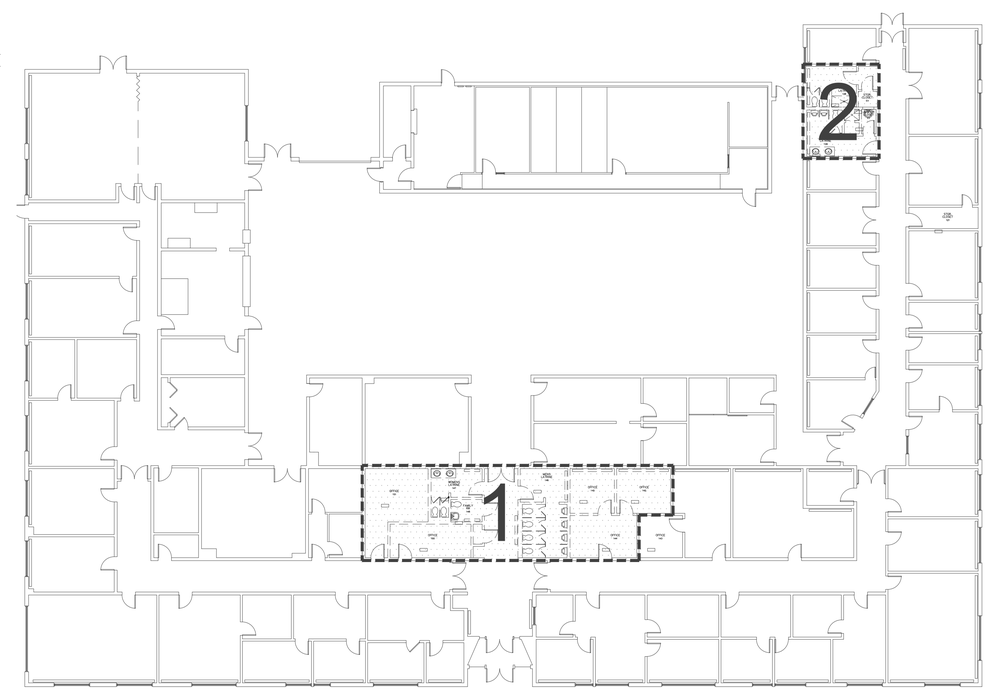
1 ENLARGED LATRINES DEMOLITION PLAN
ED101 Scale: 1/4" = 1'-0"



2 ENLARGED LATRINES DEMOLITION PLAN
ED101 Scale: 1/4" = 1'-0"



3 ENLARGED LATRINES DEMOLITION PLAN
ED101 Scale: 1/4" = 1'-0"



BUILDING 1 - EXISTING OVERALL DEMOLITION FLOOR PLAN
Scale: 1/16" = 1'-0"

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Sheet Contents

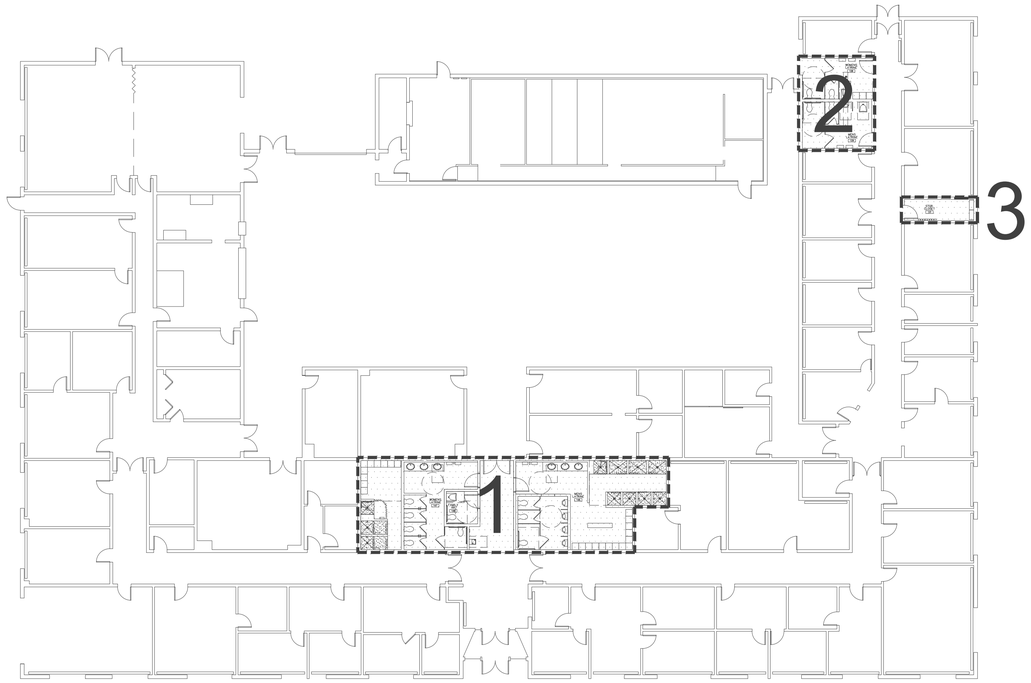
BUILDING 1 ELECTRICAL - DEMOLITION PLAN ALTERNATE #3

Project Number.

Drawing No. 1 ED101

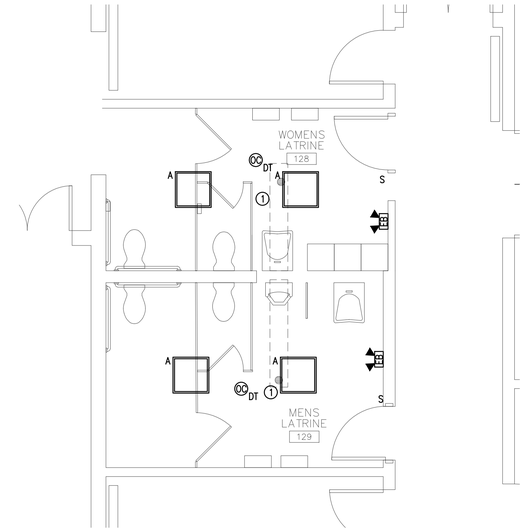
Sheet of

BER-17105



BUILDING 1 - OVERALL FLOOR PLAN

Scale: 1/16" = 1'-0"

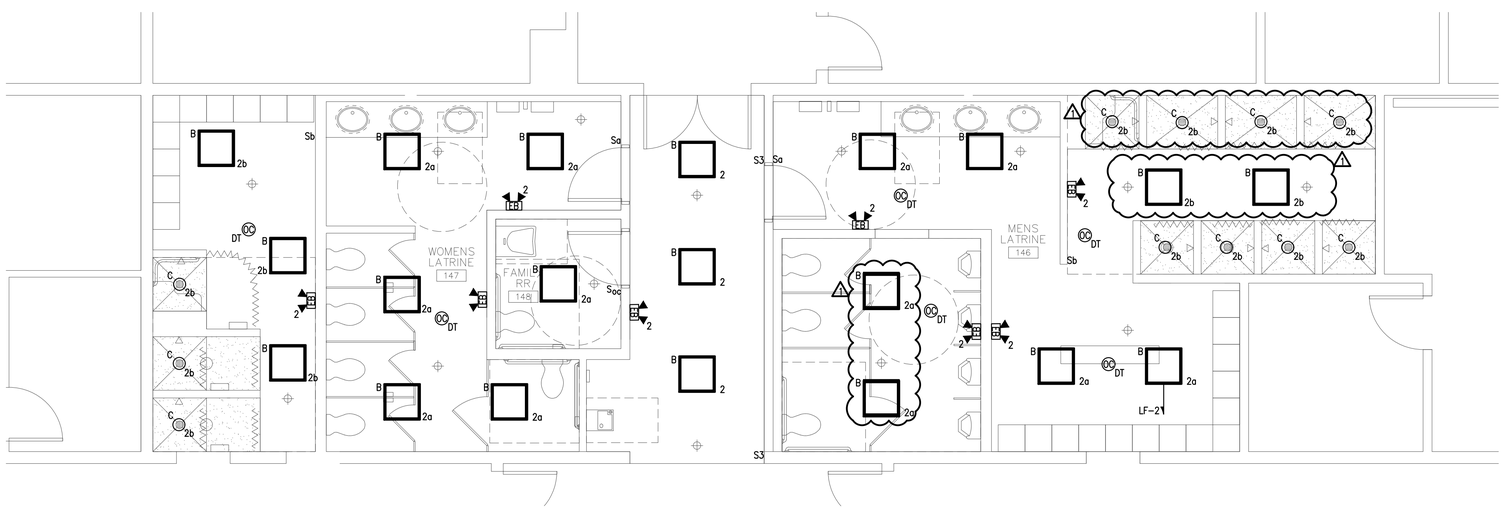


2 / E101 ENLARGED LATRINES PLAN

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

KEYED NOTES:

1. CONNECT TO EXISTING CIRCUIT FORMALLY SERVING THIS AREA.



1 / E101 ENLARGED LATRINES PLAN

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

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Sheet Contents

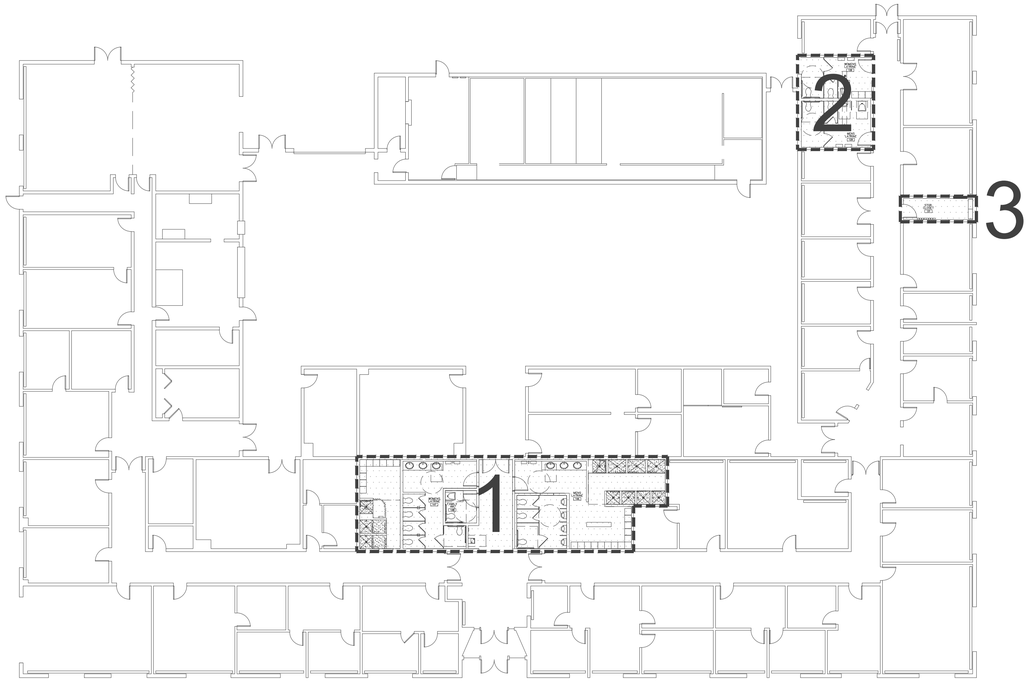
BUILDING 1
ELECTRICAL - LIGHTING PLAN
ALTERNATE #3

Project Number.

Drawing No. 1 E101

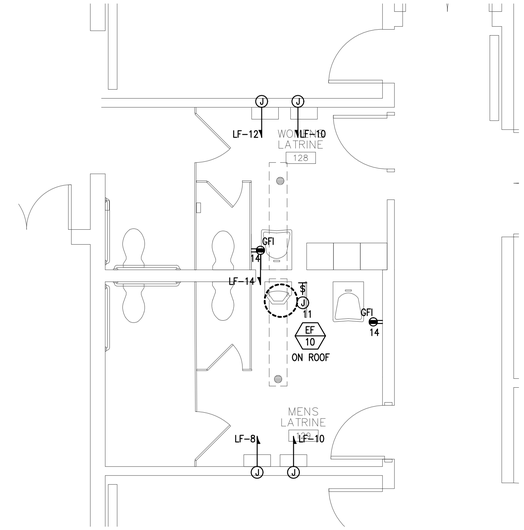
Sheet of

BER-17105



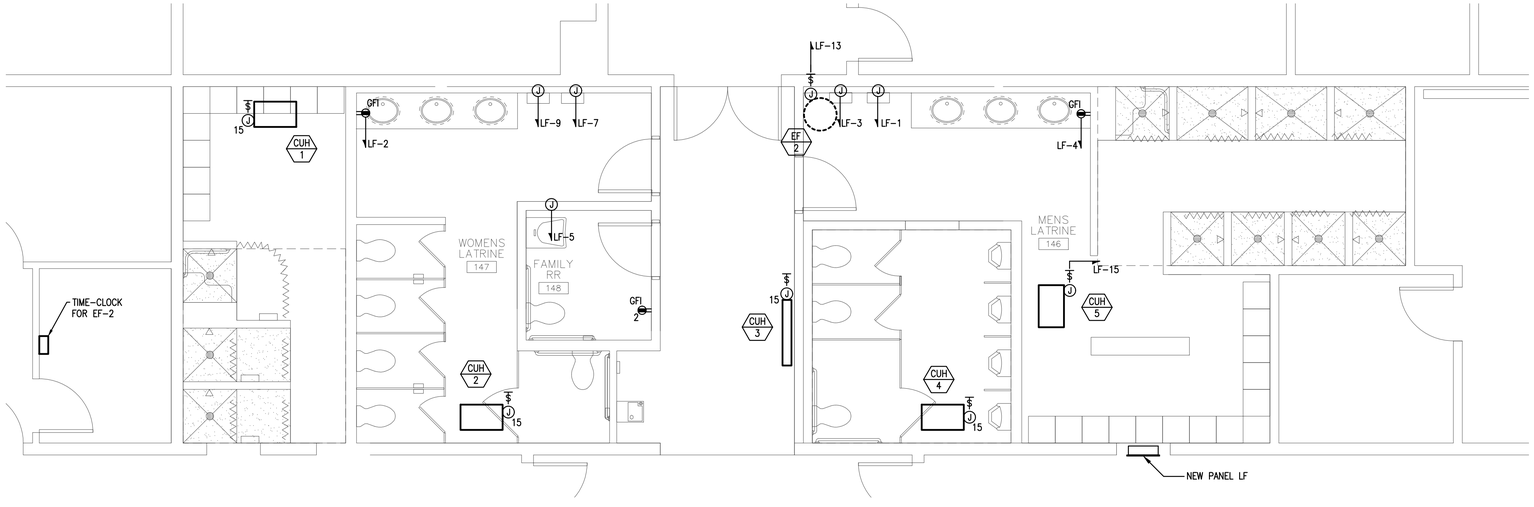
BUILDING 1 - OVERALL FLOOR PLAN

Scale: 1/16" = 1'-0"



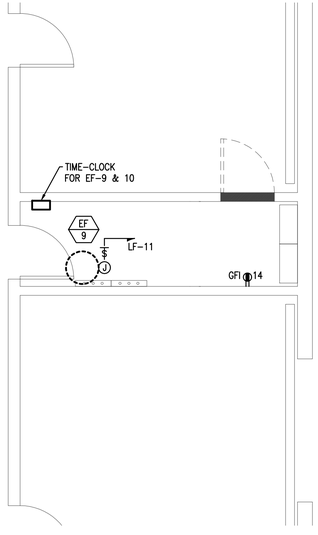
2 ENLARGED LATRINES PLAN

E102 Scale: 1/4" = 1'-0"



1 ENLARGED LATRINES PLAN

E102 Scale: 1/4" = 1'-0"



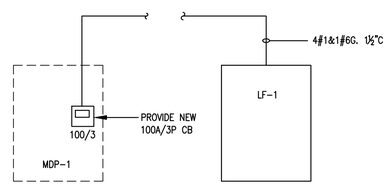
3 ENLARGED LATRINES PLAN

E102 Scale: 1/4" = 1'-0"

PANELBOARD SCHEDULE

PANEL DESIGNATION	VOLTS	PHASE	WIRES	MAINS MLO: MAIN LUGS ONLY MCB: MAIN CKT. BKR. BUS SIZE	OVERCURRENT DEVICE FRAME AMPS	OVERCURRENT DEVICE TRIP AMPS	BKR. POLES	BRANCH DEVICES BREAKER AMPS 15	20	25	30	40	50	60	70	* TOTAL POLES	MOUNTING S: SURFACE F: FLUSH	GROUND BUS	ADDITIONAL BRANCH C.B.'S	REMARKS
LF	120/208	3	4	100	100	100	1		24							30	F	✓	–	–
							2		–											
							3		–											

* INCLUDES SPACES



BUILDING 1 - RISER DIAGRAM

Scale: NTS

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Sheet Contents

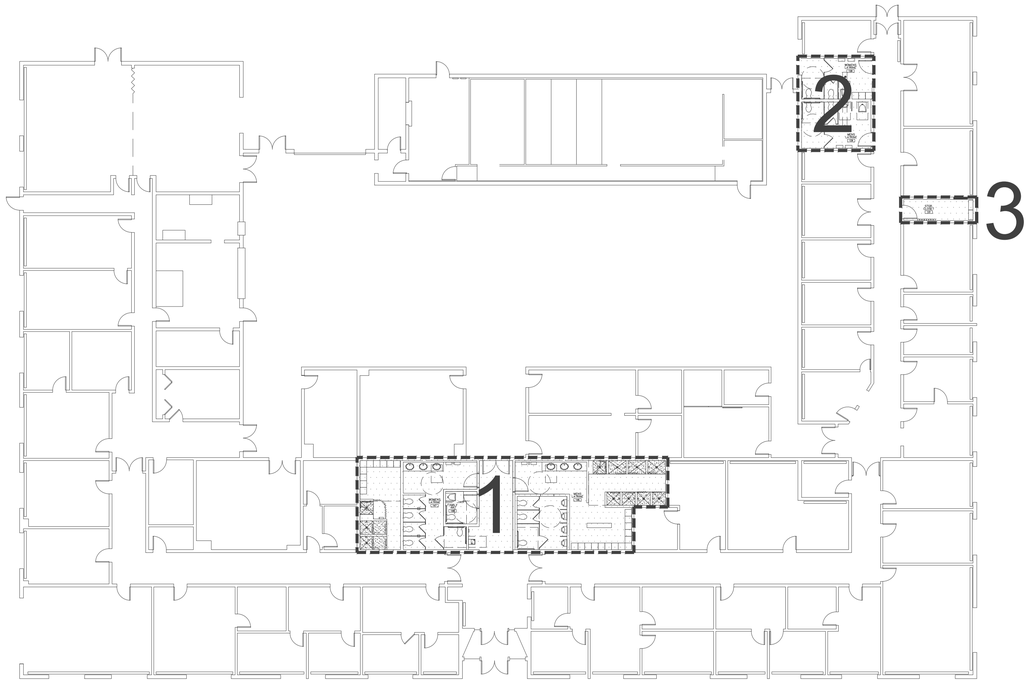
BUILDING 1
ELECTRICAL - POWER PLAN
ALTERNATE #3

Project Number.

Drawing No: 1 E102

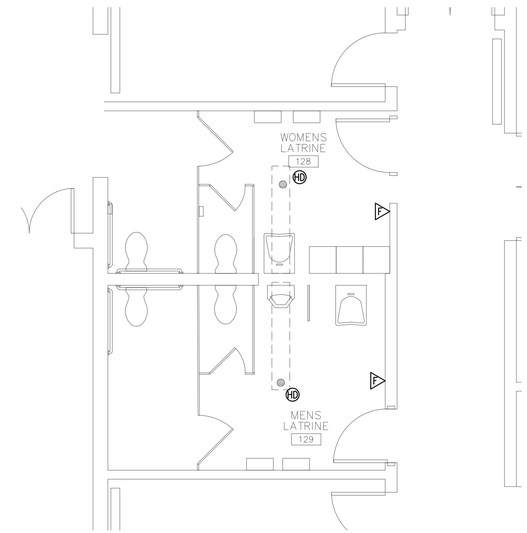
Sheet of

BER-17105



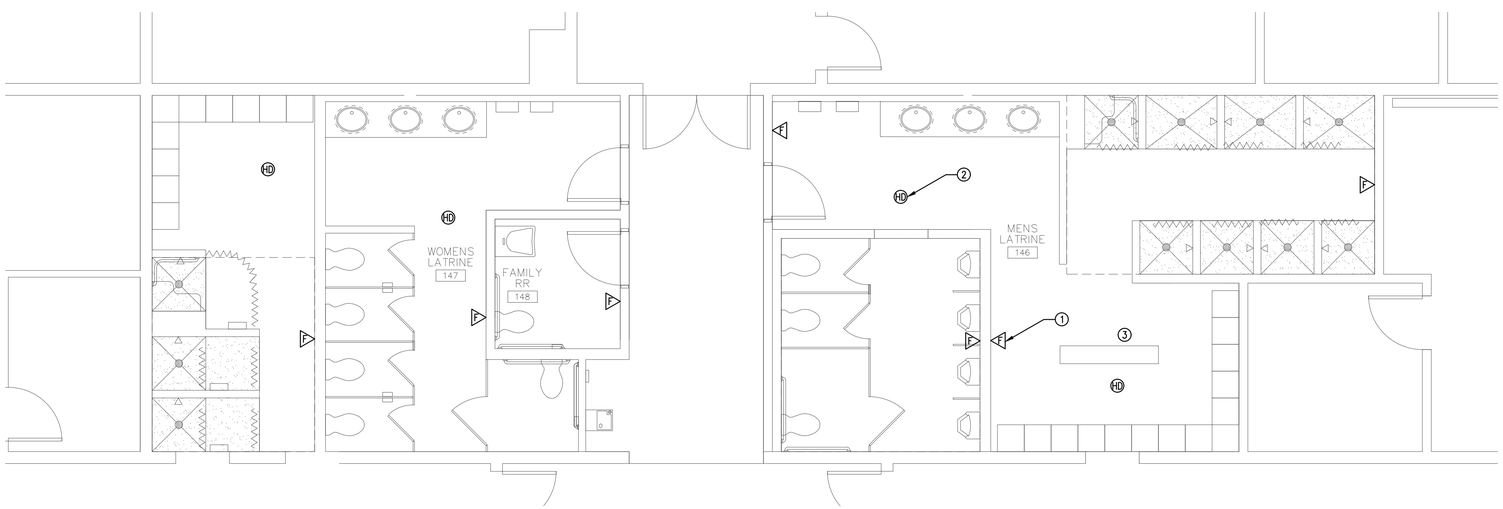
BUILDING 1 - OVERALL FLOOR PLAN

Scale: 1/16" = 1'-0"



2 FA100 ENLARGED LATRINES PLAN

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

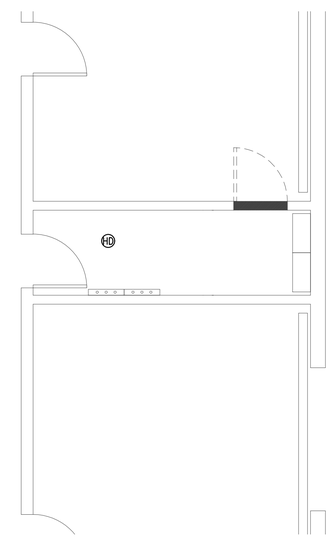


1 FA100 ENLARGED LATRINES PLAN

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

KEYED NOTES:

1. CONNECT NEW NOTIFICATION APPLIANCES TO THE EXISTING NOTIFICATION APPLIANCE CIRCUIT. PROVIDE A BATTERY BOOSTER PACK SIZED FOR THE NEW DEVICES.
2. CONNECT NEW INITIATING APPLIANCE TO EXISTING INITIATING DEVICE CIRCUIT.
3. PROVIDE TESTING OF THE ENTIRE FIRE ALARM SYSTEM UPON COMPLETION OF NEW WORK.



3 FA100 ENLARGED LATRINES PLAN

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

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Revised on

1 ADDENDUM #9 ALT.#3 CLARIFICATIONS
2020 06 19

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Project

RHODE ISLAND ARMY NATIONAL GUARD

WARWICK LATRINES MODERNIZATION

541 AIRPORT ROAD, WARWICK, RI 02886

Drawing Status

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Issued On NOVEMBER 10, 2017

Sheet Contents

BUILDING 1
FIRE ALARM PLAN
ALTERNATE #3

Project Number.

Drawing No. 1 FA100

Sheet of

BER-17105

HVAC DEMOLITION GENERAL NOTES

1. ALL DEMOLITION WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FILING ALL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS, PAY ALL REQUISITE FEES AND SECURE ALL PERMITS, INSPECTIONS AND APPROVALS NECESSARY FOR THE LEGAL INSTALLATION AND OPERATION OF THE SYSTEM AND/OR EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
3. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND SERVICES NECESSARY TO REMOVE AND DISPOSE OF ALL EXISTING HVAC SYSTEM
4. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO REMOVE THE EXISTING HVAC SYSTEM COMPLETELY. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
5. PRIOR TO START OF DEMOLITION WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE IF ANY EQUIPMENT CALLED TO BE DISPOSED ON THE PLAN SHALL BE RETURNED TO THE OWNER AND STORED PER OWNERS REQUEST.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
BHP	BREAK HORSEPOWER
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
IN	INCHES
IN WG	INCHES WATER GAUGE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
RPM	REVOLUTIONS PER MINUTE

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK (SINGLE LINE)
	RECTANGULAR SUPPLY AIR DUCTWORK UP
	RECTANGULAR RETURN AIR DUCTWORK UP
	RECTANGULAR EXHAUST AIR DUCTWORK UP
	RECTANGULAR SUPPLY AIR DUCTWORK DOWN
	RECTANGULAR RETURN AIR DUCTWORK DOWN
	RECTANGULAR EXHAUST AIR DUCTWORK DOWN
	VOLUME DAMPER
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
	ELBOW UP
	ELBOW DOWN
	TEE DOWN
	TEE UP
	CONNECT TO EXISTING
T	THERMOSTAT OR TEMPERATURE SENSOR
	CONTROL CONNECTION

FAN SCHEDULE

GENERAL			PERFORMANCE					ELECTRICAL				PHYSICAL		REMARKS			
TAG	LOCATION	SERVICE	CFM	ESP (IN WG)	FAN RPM	BHP	SONES	FLA	HP	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EF-2	BUILDING 1 ROOF	TOILET EXHAUST	1075	.50	1505	–	8.5	5.8	1/4	115	1	63.0	GREENHECK G-103-A	1	2	1 2 3 4 5	1
EF-9	BUILDING 1 ROOF	JANITOR CLOSET EXHAUST	75 –	.25	1382	–	2.8	–	1/60	115	1	33.0	GREENHECK G-060-D	1	2	1 2 3 4 5	1
EF-10	BUILDING 1 ROOF	TOILET EXHAUST	250	.25	1478	–	4.1	–	1/30	115	1	34.0	GREENHECK G-070-D	1	2	1 2 3 4 5	1

1. CENTRIFUGAL ROOF EXHAUSTER, DOWNBLAST, DIRECT DRIVE

1. AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211
2. SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311

1. NON-FUSED DISCONNECT SWITCH
2. GRAVITY BACKDRAFT DAMPER
3. BIRDSCREEN
4. UNIT MOUNTED SPEED CONTROLLER
5. ADAPTER CURB

1. INSTALL PER MANUFACTURERS INSTRUCTIONS

PLAN LEGEND

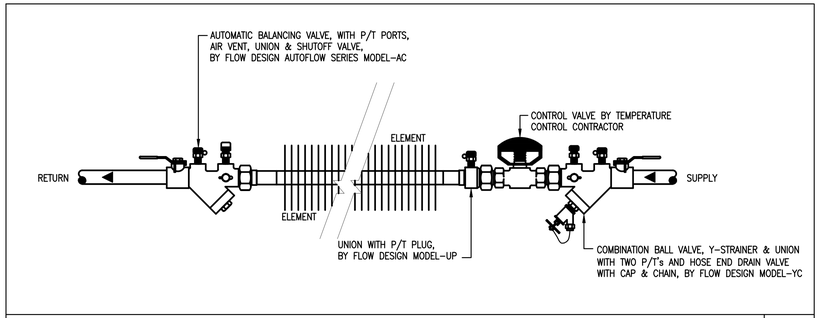
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN (SHOWN IN LIGHT LINES)
ETR	EXISTING TO REMAIN AS INSTALLED.

KEY NOTES

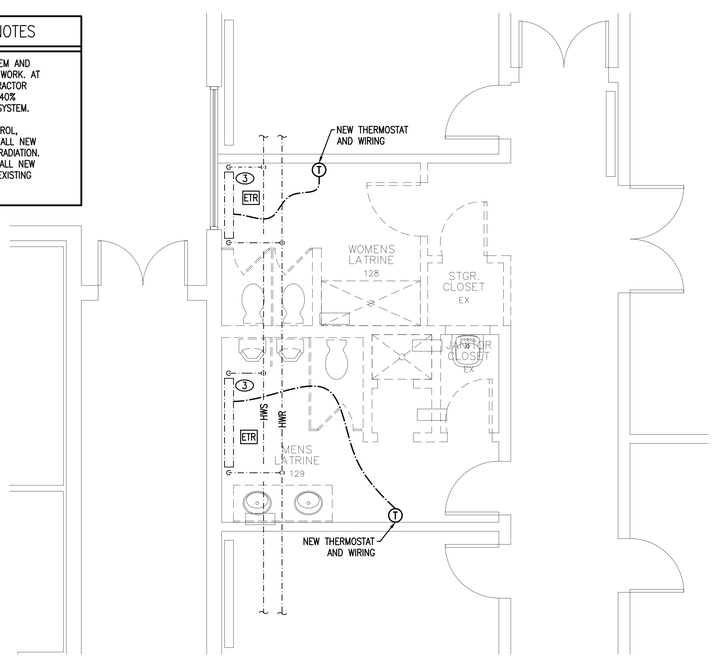
1. REMOVE, DISCARD AND REPLACE EXISTING ROOF MOUNTED EXHAUST FAN, DUCTWORK, AND ALL ASSOCIATED APPURTENANCES TO POINT INDICATED ON DRAWING.
2. DISCONNECT AND MAKE SAFE FOR REMOVAL. RE-CONNECT EXISTING CIRCUIT AND CONTROLS FOR NEW FANS ONCE INSTALLED.
3. REMOVE AND DISCARD EXISTING CONTROL, BALANCING, AND ISOLATION VALVES. CONTRACTOR TO PROVIDE NEW CONTROL, BALANCING AND ISOLATION VALVES. TIE ALL NEW VALVES INTO EXISTING BMS SYSTEM. REFER TO FIN-TUBE RADIATION DETAIL.

MECHANICAL PIPING NOTES

1. CONTRACTOR SHALL DRAIN ENTIRE SYSTEM AND MAKE SAFE AS REQUIRED TO PERFORM WORK. AT THE COMPLETION OF NEW WORK, CONTRACTOR SHALL FILL THE SYSTEM AND MAINTAIN 40% PROPYLENE GLYCOL THROUGHOUT THE SYSTEM.
2. CONTRACTOR SHALL PROVIDE NEW CONTROL, BALANCING AND ISOLATION VALVES FOR ALL NEW CABINET UNIT HEATERS AND FIN-TUBE RADIATION. REFER TO DETAILS ON DRAWING M300. ALL NEW CONTROL VALVES SHALL BE TIED INTO EXISTING BMS SYSTEM.

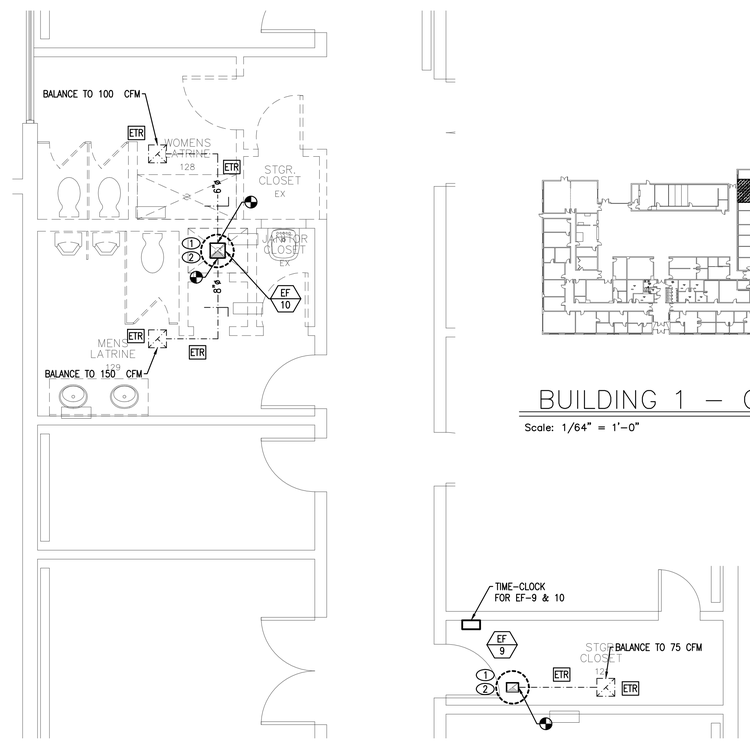


TYPICAL PIPING DETAIL — NTS



1 / M100 ENLARGED LATRINES PIPING PART PLAN

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



2 / M100 ENLARGED LATRINES DUCTWORK PART PLAN

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

BUILDING 1 – OVERALL KEY PLAN

Scale: 1/64" = 1'-0"

THE SCOPE OF WORK ON DRAWING ME100, ME101, & ME102 SHALL ONLY BE USED IF ALTERNATE # 3 IS NOT ACCEPTED AND TO DISREGARD THE REMAINING MEP ALTERNATE # 3 DRAWINGS.

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WARWICK LATRINES MODERNIZATION

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Sheet Contents

BUILDING 1 - KEY, NOTES, SCHEDULES, DETAILS, DUCTWORK AND PIPING PLANS

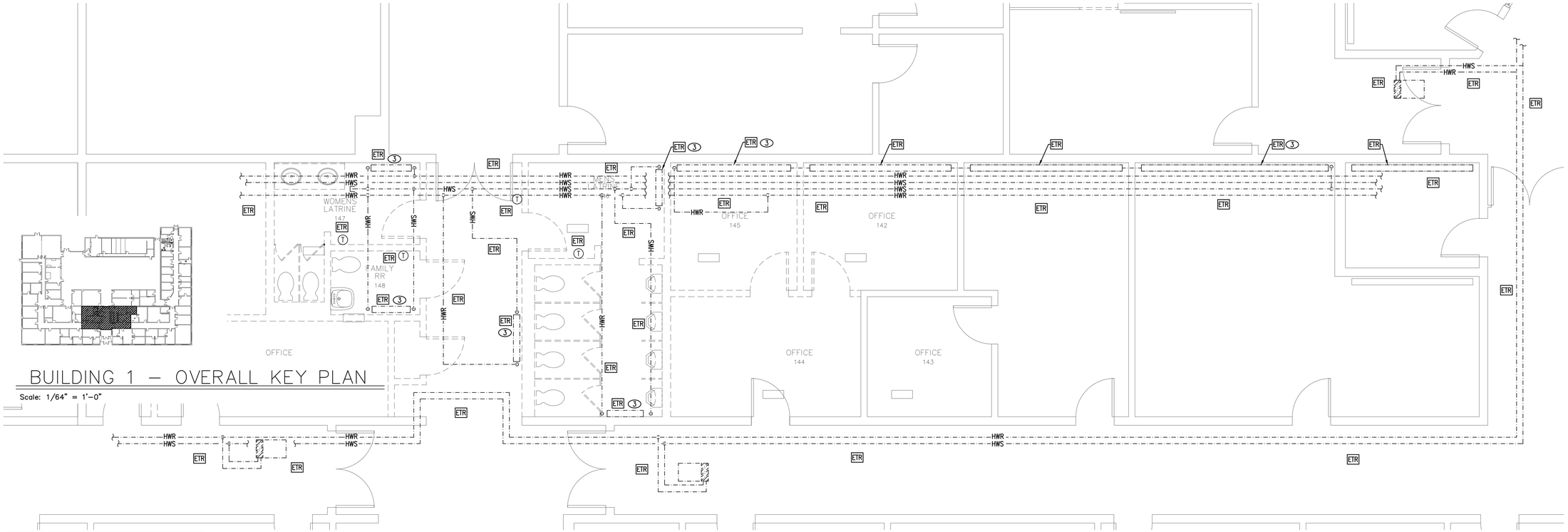
Project Number.

Drawing No.

ME100

Sheet of

BER-17105



BUILDING 1 – OVERALL KEY PLAN

Scale: 1/64" = 1'-0"

1 ENLARGED LATRINES PIPING PART PLAN

M100 Scale: 1/4" = 1'-0"

PLAN LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN (SHOWN IN LIGHT LINES)
ETR	EXISTING TO REMAIN AS INSTALLED.

KEY NOTES

1. REMOVE, DISCARD AND REPLACE EXISTING ROOF MOUNTED EXHAUST FAN, DUCTWORK, AND ALL ASSOCIATED APPURTENANCES TO POINT INDICATED ON DRAWING.
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MECHANICAL PIPING NOTES

1. CONTRACTOR SHALL DRAIN ENTIRE SYSTEM AND MAKE SAFE AS REQUIRED TO PERFORM WORK. AT THE COMPLETION OF NEW WORK, CONTRACTOR SHALL FILL THE SYSTEM AND MAINTAIN 40% PROPYLENE GLYCOL THROUGHOUT THE SYSTEM.
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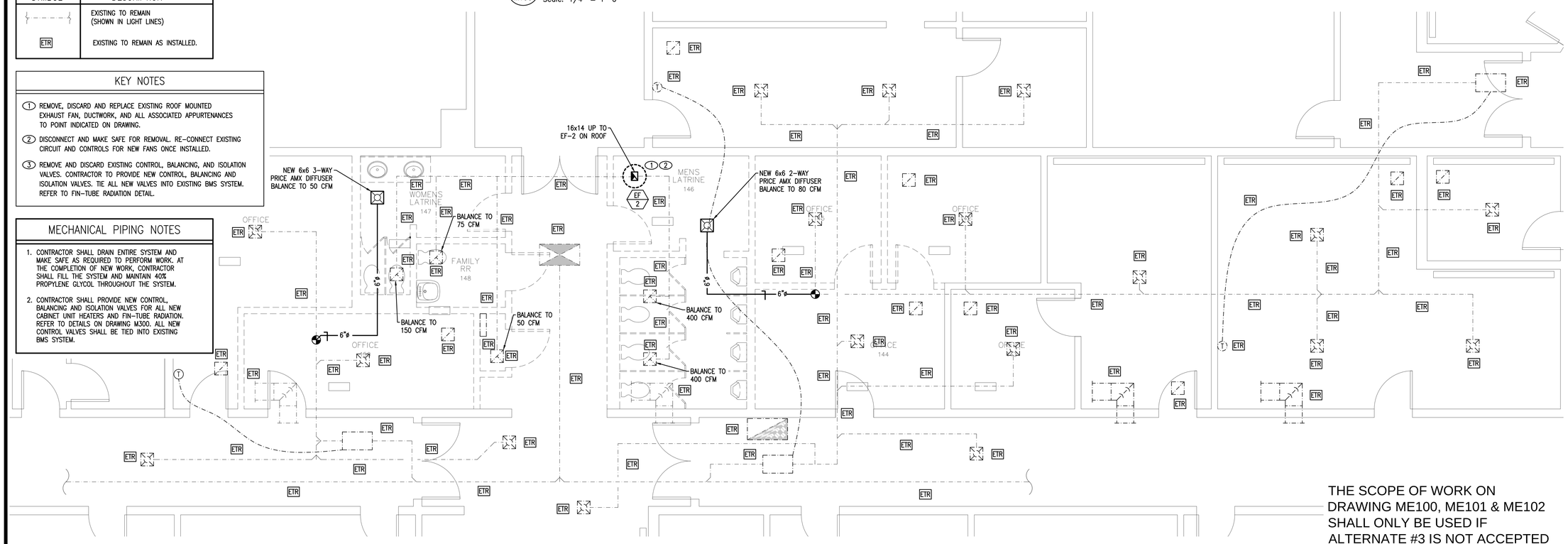

2 ENLARGED LATRINES DUCTWORK PART PLAN

M100 Scale: 1/4" = 1'-0"

THE SCOPE OF WORK ON DRAWING ME100, ME101 & ME102 SHALL ONLY BE USED IF ALTERNATE #3 IS NOT ACCEPTED AN TO DISREGARD THE REMAINING MEP ALTERNATE # 3 DRAWINGS.

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Sheet Contents

BUILDING 1 - DUCTWORK AND PIPING PLANS

Project Number.

Drawing No.

ME101

Sheet of

BER-17105

MECHANICAL SPECIFICATIONS

PART 1 – GENERAL

1.0 GENERAL REQUIREMENTS:

A. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND SERVICES NECESSARY TO FURNISH, FABRICATE AND INSTALL ALL WORK SPECIFIED HEREIN. REFER TO THE DRAWINGS FOR FURTHER DEFINITION OF LOCATION, EXTENT AND DETAILS OF THE WORK.

B. WHERE THE SPECIFICATIONS REFER TO THREE (3) PRODUCTS, BY NAME, CATALOG NUMBER AND/OR MANUFACTURER, IT IS THE INTENT OF THE SPECIFICATION THAT THE CONTRACTOR SHALL SUBMIT ONE (1) TO THE ENGINEER FOR APPROVAL.

C. WHERE THE SPECIFICATIONS OR DRAWINGS REFER TO LESS THAN THREE (3) PRODUCTS BY NAME, CATALOG NUMBER AND/OR MANUFACTURER, UNLESS OTHERWISE SPECIFIED, THE INTENT IS TO ESTABLISH A STANDARD OF QUALITY AND NOT BE CONSTRUED AS LIMITING COMPETITION; IN SUCH CASES, THE CONTRACTOR MAY, WITH THE PERMISSION OF THE ENGINEER, SUBMIT DETAILED INFORMATION TO THE ENGINEER FOR HIS REVIEW. IF, IN THE JUDGMENT OF THE OWNER/ENGINEER, THE SUBMISSION IS ACCEPTABLE, THE ENGINEER WILL TRANSMIT HIS APPROVAL IN WRITING TO THE CONTRACTOR.

1.1 WORK INCLUDED:

A. THE INTENTION OF THE SPECIFICATIONS AND PLANS IS TO PROVIDE FOR FURNISHED SYSTEMS, PROPERLY TESTED, BALANCED AND READY FOR OPERATION, INCLUDING NECESSARY MINOR DETAILS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE, EVEN THOUGH SUCH ITEMS MAY NOT BE EXPRESSLY SHOWN OR SPECIFIED.

B. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE HVAC WORK SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN AND SHALL BE INTERPRETED AS WORK TO BE DONE BY CONTRACTOR. WORK TO BE PERFORMED BY OTHER TRADES WILL ALWAYS BE SPECIFICALLY REFERENCED TO A PARTICULAR CONTRACTOR AND/OR SECTION.

1.2 REGULATORY REQUIREMENTS, CODES, ORDINANCES AND PERMITS:

A. ALL WORK PERFORMED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES.

B. ALL MATERIALS AND WORK PROVIDED SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE FOLLOWING:
1. ASSOCIATED AIR BALANCE COUNCIL (AABC)
2. AIR MOVEMENT AND CONTROL ASSOCIATION
3. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
4. AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE)
5. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
6. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
7. INTERNATIONAL MECHANICAL CODE (IMC)
8. NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB)
9. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)

C. WHERE CODE REFERENCES ARE GIVEN, THE LATEST ISSUE OF THAT CODE IN EFFECT AT THE TIME OF BIDDING SHALL BE USED.

D. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FILING ALL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS, PAY ALL REQUISITE FEES AND SECURE ALL PERMITS, INSPECTIONS AND APPROVALS NECESSARY FOR THE LEGAL INSTALLATION AND OPERATION OF THE SYSTEM AND/OR EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.

E. THIS CONTRACTOR SHALL FRAME UNDER GLASS ALL PERMITS, SECURED BY HIM, ADJACENT TO THE RESPECTIVE SYSTEM AND/OR EQUIPMENT AND REQUIRED TO BE DISPLAYED BY CODE, LAW AND ORDINANCE. THOSE PERMITS SECURED BUT NOT REQUIRED TO BE DISPLAYED SHALL BE INCLUDED IN THE OWNER'S MAINTENANCE MANUAL.

1.3 SUBMITTALS:

A. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AND RECORD DRAWINGS FOR ALL WORK PROVIDED UNDER THIS CONTRACT TO THE ARCHITECT/ENGINEER FOR HIS REVIEW AND APPROVAL PRIOR TO ORDERING, FABRICATING OR INSTALLING.

1.4 COORDINATION:

A. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW SPEEDY AND EFFICIENT COMPLETION OF THE WORK.

B. IF ANY HVAC WORK HAS BEEN INSTALLED BEFORE COORDINATION WITH OTHER TRADES SO AS TO CAUSE INTERFERENCE WITH THE WORK OF SUCH TRADES, ALL NECESSARY ADJUSTMENTS AND CORRECTIONS SHALL BE MADE BY THE HVAC TRADES INVOLVED WITHOUT EXTRA COST TO THE OWNER.

C. THIS CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.

D. IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.

E. THIS CONTRACTOR SHALL NOT UNNECESSARILY DISTURB OR INTERFERE WITH THE OWNER'S USE OF THE FACILITIES ASSOCIATED WITH OR ADJACENT TO THIS CONTRACT. WHEN INTERFERENCE IS NECESSARY, PERMISSION SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR BEFORE ANY OPERATION OR SERVICE LINE IS DISTURBED OR DISCONNECTED.

F. DIFFUSERS, GRILLES AND REGISTERS LOCATED IN THE CEILING SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN AND COORDINATED WITH CEILING GRID, LIGHTS, SPEAKERS, ETC. ITEMS SHOWN ON THE HVAC DRAWINGS, BUT NOT LOCATED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED TO BE LOCATED AS INDICATED ON THE HVAC DRAWINGS.

1.5 GUARANTEE/WARRANTY

B. ALL NEW MATERIALS, ITEMS OR EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CARRY STANDARD WARRANTY AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF WORK. ANY FAULT DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR MANUFACTURING DESIGN WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THIS CONTRACTOR, INCLUDING ALL OTHER DAMAGES DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE.

C. THIS CONTRACTOR SHALL GUARANTEE THAT ALL NEW ELEMENTS OF THE SYSTEMS MEET THE SPECIFIED PERFORMANCE REQUIREMENTS AS SET FORTH HEREIN OR AS INDICATED ON THE DRAWINGS.

PART 2 – EQUIPMENT

2.1 DUCTWORK:

A. DUCTWORK: GALVANIZED STEEL SHEETS, REINFORCING AND COMPANION ANGLES, HANGERS, METAL SPECIFICATIONS, GAUGES AND CONSTRUCTION OF SEAMS, JOINTS AND REINFORCING SHALL BE ACCORDING TO THE LATEST SMACNA PUBLICATION – "HVAC DUCT CONSTRUCTION STANDARDS".
1. SUPPLY AND RETURN DUCTWORK CONSTRUCTION SHALL MEET 2" CLASSIFICATION.
2. ALL RECTANGULAR SHEET DEFINED AS ALL DUCTWORK, UNLESS OTHERWISE SPECIFIED, SHALL BE CONSTRUCTED WITH PITTSBURGH LONGITUDINAL SEAMS.
3. TRANSVERSE JOINTS SHALL BE MADE UP WITH POCKET LOCKS AND CORNER CLOSURES.
4. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE DIMENSION. DUCTWORK SIZE SHALL INCREASE TO TO ALLOW FOR INTERNAL DUCT LINER THICKNESS.
5. PROVIDE ALL REQUIRED OFFSETS, ELBOWS AND TRANSITION AS REQUIRED. WHEN MAKING OFFSETS AND TRANSFORMATIONS NECESSARY TO ACCOMMODATE STRUCTURAL CONDITIONS, PIPING OR EQUIPMENT, PRESERVE FULL CROSS-SECTIONAL AREA OF DUCTWORK SHOWN ON DRAWINGS.
6. MAKE CHANGES IN DUCT SIZE WITH TAPERED CONNECTIONS AS REQUIRED BY SMACNA. CHANGES SHALL NOT EXCEED 30° FROM LINE TO AIRFLOW.
7. TAKE-OFFS TO THE DIFFUSERS SHALL BE 45 LEADING EDGE TYPE OR BELLMOUTH TYPE.

B. FLEXIBLE DUCT: FURNISH AND INSTALL, WHERE SHOWN ON THE DRAWINGS, INSULATED FLEXIBLE DUCT. FLEXIBLE DUCT IS ALLOWED ONLY ABOVE DROPPED CEILINGS. FLEX DUCT MAXIMUM LENGTH SHALL BE 10 FEET.

C. VOLUME DAMPERS: FURNISH AND INSTALL MANUAL DAMPERS WHERE INDICATED ON THE DRAWINGS AND WHERE REQUIRED TO BALANCING. DAMPERS SHALL BE NOT LESS THAN TWO GAUGES HEAVIER THAN DUCTWORK IN WHICH INSTALLED.

D. DUCT SEALING: ALL TRANSVERSE SEAMS, JOINTS AND WHERE DUCTS CONNECT SHALL BE MADE AIR TIGHT BY GENEROUSLY COATING WITH DUCT SEALANT AS MANUFACTURED BY MINNESOTA MINING AND MANUFACTURING, DOW CORNING, BOSTIK CONSTRUCTION PRODUCTS OR APPROVED EQUAL. THE MAXIMUM ALLOWABLE DUCT LEAKAGE SHALL BE 5% OF THE RESPECTIVE SYSTEM TOTAL AIR QUANTITY.

2.2 DUCT INSULATION:

A. INSULATE NEW AND EXISTING SUPPLY DUCTWORK. INSULATION SHALL BE CERTAIN-TEED, KNAUF, MANVILLE OR OWENS CORNING. INSTALL INSULATION, MASTICS, ADHESIVES, COATINGS, COVERS, WEATHER-PROTECTION AND OTHER WORK EXACTLY AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS AND SMACNA.

B. APPLY INSULATION AFTER SYSTEMS HAVE BEEN TESTED, PROVED TIGHT AND APPROVED BY ARCHITECT. REMOVE DIRT, SCALE, OIL, RUST AND OTHER FOREIGN MATTER PRIOR TO INSTALLATION OF INSULATION. LEAKS IN VAPOR BARRIER OR VOIDS IN INSULATION WILL NOT BE ACCEPTED. ASTM E-84 MINIMUM FIRE HAZARD RATINGS SHALL BE 25 FLAME-SPREAD, 50 FUEL CONTRIBUTED AND 50 SMOKE DEVELOPED. WHERE DUCTS ARE INSULATED, FLEXIBLE CONNECTIONS TO DUCTS SHALL BE INSULATED. INSULATE STANDING SEAMS WITH SAME MATERIAL AND THICKNESS AS DUCT. INSULATION SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND IN SLEEVES.

C. INSULATE SUPPLY AIR DUCTWORK IN CONCEALED OR UNCONDITIONED SPACES WITH GLASS DUCT WRAP OR R-8 EQUIVALENT; WITH FOIL-KRAFT FLAME-RESISTANT VAPOR BARRIER. INSULATION DENSITY SHALL HAVE MAXIMUM K-FACTOR SHALL BE 0.30 AT 75° F MEAN TEMPERATURE.

D. IF INSULATION DOES NOT HAVE PRE-CUT LAP, MAKE LAPPED BUTT JOINTS BY CUTTING 2" STRIP OF INSULATION AWAY FROM VAPOR BARRIER. APPLY 6" STRIPS OF APPROVED ADHESIVE ON 16" CENTERS AND WRAP DUCT WITH INSULATION. STAPLE LAPPED JOINT WITH OUTWARD-CLINCHING STAPLES. SEAL STAPLED JOINTS AIRTIGHT WITH APPROVED MATCHING PRESSURE-SENSITIVE TAPE. FOR RECTANGULAR DUCT 24" OR LARGER IN ANY DIMENSION, AUGMENT APPLICATION METHOD SPECIFIED IN ITEM 3 WITH APPROVED MECHANICAL FASTENERS, SUCH AS WELD PINS WITH SPEED WASHERS, ON 18" CENTERS ON BOTTOM OF DUCT. COVER BREAKS IN VAPOR MATERIAL WITH PATCHES OF SAME MATERIAL, SECURED WITH ADHESIVE AND STAPLES. SEAL STAPLES WITH APPROVED PRESSURE SENSITIVE TAPE. FILL VOIDS IN INSULATION AT JACKET PENETRATIONS AND SEAL WITH PRESSURE SENSITIVE TAPE. SEAL AND FLASH TERMINATIONS AND PUNCTURES WITH FIBROUS GLASS CLOTH BETWEEN TWO (2) COATS OF PRESSURE SENSITIVE TAPE. TERMINATE VAPOR BARRIER AND EXTEND INSULATION AT STANDOFF BRACKETS.

2.03 PIPE AND PIPE FITTING MATERIALS:

A. HOT WATER PIPING SHALL BE TYPE "L" COPPER, CLASS 150 PRESSURE RATING WITH 95 TIN/ANTIMONY SOLDERED CONNECTIONS.
B. PROVIDE DIELECTRIC FITTINGS AT CONNECTIONS OF DISSIMILAR MATERIALS.

2.4 REGISTERS, GRILLES AND DIFFUSERS:

A. REGISTERS, GRILLES AND DIFFUSERS SHALL BE OF ALUMINUM CONSTRUCTION IN THE MODEL SIZE AND CAPACITY NOTED ON THE DRAWINGS. EQUIPMENT SHALL BE AS MANUFACTURED BY PRICE, TITUS, OR METAL AIRE.

B. COORDINATE GRILLES WITH MOUNTED TYPE ON CEILING OR WALL CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, CEILING TYPE AND WALL CONSTRUCTION PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT.

2.5 CONTROLS

A. WIRING: FURNISH AND INSTALL ALL ELECTRICAL WORK INCLUDING INTERLOCK AND CONTROL WIRING NECESSARY. ANY STEP DOWN VOLTAGE TRANSFORMERS SHALL BE FURNISHED. ALL INTERLOCK WIRING SHALL BE PROVIDED BY THIS CONTRACTOR. THE WIRING AND RACEWAY SYSTEM SHALL COMPLY TO THE REQUIREMENTS OF "NEC" AND ELECTRICAL SPECIFICATIONS.

2.6 ROOF FAN

A. MODEL G ROOF EXHAUST FANS SHALL BE CENTRIFUGAL DIRECT DRIVE TYPE. THE FAN HOUSING AND SHROUD SHALL BE CONSTRUCTED OF HEAVY GAUGE ALUMINUM WITH A RIGID INTERNAL SUPPORT STRUCTURE. THE FAN SHROUD SHALL HAVE A ROLLED BEAD FOR ADDED STRENGTH. THE FAN WHEEL SHALL BE CENTRIFUGAL BACKWARD INCLINED, CONSTRUCTED OF ALUMINUM AND SHALL INCLUDE A WHEEL CONE CAREFULLY MATCHED TO THE INLET CONE FOR PRECISE RUNNING TOLERANCES. WHEELS SHALL BE STATICALLY AND DYNAMICALLY BALANCED. MOTORS SHALL BE MOUNTED OUT OF THE AIRSTREAM ON VIBRATION ISOLATORS. FRESH AIR FOR MOTOR COOLING SHALL BE DRAWN INTO THE MOTOR COMPARTMENT FROM AN AREA FREE OF DISCHARGE CONTAMINANTS. MOTORS SHALL BE READILY ACCESSIBLE FOR MAINTENANCE. A DISCONNECT SWITCH SHALL BE FACTORY INSTALLED AND WIRED FROM THE MOTOR COMPARTMENT FOR EASE OF ELECTRICAL WIRING. GALVANIZED RIGID WIRE PROTECTS THE FAN'S DISCHARGE FROM BIRDS OR SMALL OBJECTS.

B. ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.

C. EACH FAN SHALL BEAR A PERMANENTLY AFFIXED MANUFACTURER'S NAMEPLATE CONTAINING THE MODEL NUMBER AND INDIVIDUAL SERIAL NUMBER FOR FUTURE IDENTIFICATION.

D. FANS SHALL BE MODEL G AS MANUFACTURED BY GREENHECK.

PART 3 – EXECUTION

3.1 MATERIALS AND WORKMANSHIP:

A. ALL MATERIALS INSTALLED IN THIS WORK SHALL BE NEW, UNLESS NOTED FOR REUSE, WITHOUT DAMAGED FUNCTIONAL OR AESTHETIC COMPONENTS. ALL EQUIPMENT FINISHED SHALL BE TOUCHED UP WITH MATCHING FINISHES WHERE SLIGHT SCRATCHES OCCUR. EQUIPMENT OR MATERIAL SUBJECT TO SEVERE DETERIORATION SHALL BE COMPLETELY REFINISHED OR REPLACED AS DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER.

B. ALL LABOR UTILIZED IN THE INSTALLATION OF WORK SHALL BE EXPERIENCED IN THE RESPECTIVE TRADE REQUIRED. THE INSTALLATION OF EXPOSED FINISHED MATERIALS SHALL BE NEATLY DONE FLUSH, STRAIGHT AND/OR PLUMB, WITHOUT DISTORTION, MEETING THE BUILDING FINISHED SURFACES.

C. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS WITH ADEQUATE CLEARANCE FOR ACCESS FOR MAINTENANCE.

3.2 TESTING AND BALANCING

A. TOTAL SYSTEM BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, TOTAL SYSTEM BALANCE OR ASHRAE SYSTEMS HANDBOOK.

3.3 PROVIDE THE FOLLOWING:

A. BEFORE COMMENCING WORK, VERIFY THAT SYSTEMS ARE COMPLETE AND OPERABLE. ENSURE THE FOLLOWING:
1. EQUIPMENT IS OPERABLE AND IN A SAFE AND NORMAL CONDITION.
2. TEMPERATURE CONTROL SYSTEMS ARE INSTALLED COMPLETE AND OPERABLE.
3. FINAL FILTERS ARE CLEAN AND IN PLACE. IF REQUIRED, INSTALL TEMPORARY MEDIA IN ADDITION TO FINAL FILTERS.
4. DUCT SYSTEMS ARE CLEAN OF DEBRIS.
5. AIR OUTLETS ARE INSTALLED AND CONNECTED.

B. REPORT ANY DEFECTS OR DEFICIENCIES NOTED DURING PERFORMANCE OF SERVICES TO THE DESIGNER.
C. PROMPTLY REPORT ABNORMAL CONDITIONS IN MECHANICAL SYSTEMS OR CONDITIONS WHICH PREVENT SYSTEM BALANCE.
D. IF, FOR DESIGN REASONS, SYSTEM CANNOT BE PROPERLY BALANCED, REPORT AS SOON AS OBSERVED.
E. BEGINNING OF WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS.
F. PROVIDE ADDITIONAL BALANCING DEVICES AS REQUIRED.
G. ADJUST AIR HANDLING SYSTEMS TO PLUS OR MINUS 5 PERCENT FOR SUPPLY SYSTEMS AND PLUS OR MINUS 10 PERCENT FOR RETURN AND EXHAUST SYSTEMS FROM FIGURES INDICATED.
H. RECORDED DATA SHALL REPRESENT ACTUALLY MEASURED, OR OBSERVED CONDITION.
I. AFTER ADJUSTMENT, TAKE MEASUREMENTS TO VERIFY BALANCE HAS NOT BEEN DISRUPTED OR THAT SUCH DISRUPTION HAS BEEN RECTIFIED.
J. LEAVE SYSTEMS IN PROPER WORKING ORDER, CLOSING ACCESS DOORS, CLOSING DOORS TO ELECTRICAL SWITCH BOXES, AND RESTORING THERMOSTATS TO SPECIFIED SETTINGS.
K. AT FINAL INSPECTION, RECHECK RANDOM SELECTIONS OF DATA RECORDED IN REPORT. RECHECK POINTS OR AREAS AS SELECTED AND WITNESSED BY THE OWNER.
L. ADJUST AIR HANDLING AND DISTRIBUTION SYSTEMS TO PROVIDE REQUIRED OR DESIGN SUPPLY, RETURN, AND EXHAUST AIR QUANTITIES.
M. MEASURE AIR QUANTITIES AT AIR INLETS AND OUTLETS.
N. USE VOLUME CONTROL DEVICES TO REGULATE AIR QUANTITIES ONLY TO EXTENT THAT ADJUSTMENTS DO NOT CREATE OBJECTIONABLE AIR MOTION OR SOUND LEVELS. EFFECT VOLUME CONTROL BY DUCT INTERNAL DEVICES SUCH AS DAMPERS.
O. MEASURE STATIC AIR PRESSURE CONDITIONS ON AIR SUPPLY UNITS, INCLUDING FILTER AND COIL PRESSURE DROPS, AND TOTAL PRESSURE ACROSS THE FAN.

3.4 PROTECTION AND CLEAN-UP:

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF ALL MATERIALS AND EQUIPMENT FURNISHED BY HIM DURING THE CONSTRUCTION PERIOD FROM LOSS, DAMAGE OR DETERIORATION UNTIL FINAL ACCEPTANCE BY THE OWNER. ALL MATERIALS AND EQUIPMENT ON THE JOBSITE SHALL BE STORED AND PROTECTED FROM THE WEATHER. ALL PIPING AND EQUIPMENT OPENINGS SHALL BE TEMPORARILY CLOSED DURING CONSTRUCTION TO PREVENT OBSTRUCTION AND DAMAGE.

B. ALL EQUIPMENT WITH DAMAGED FINISHED SURFACES SHALL BE CLEANED AND REPAINTED WITH THE SAME PAINTS AS WERE FACTORY APPLIED.

C. CLEANING:
1. KEEP THE JOBSITE FREE FROM THE ACCUMULATION OF WASTE MATERIALS AND RUBBISH DAILY. AT COMPLETION OF THE WORK, REMOVE ALL RUBBISH, CONSTRUCTION EQUIPMENT AND SURPLUS MATERIALS FROM THE SITE AND LEAVE THE PREMISES IN A CLEAN CONDITION.
2. ALL NEW AND EXISTING DUCTS, FANS, AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUTSIDE AND BLOWN OUT TO PREVENT ANY DEBRIS FROM DAMAGING FAN SHIELDS OR DEBRIS HANGING THROUGH REGISTERS OR DIFFUSERS WHEN SYSTEMS ARE PLACED IN OPERATION. ALL TEMPORARY CONNECTIONS REQUIRED FOR BLOWING OUT THE SYSTEMS, CHEESECLOTH FOR ALL DUCT OPENINGS, AND ANY OTHER EQUIPMENT OR LABOR FOR CLEANING, SHALL BE PROVIDED BY THE HVAC CONTRACTOR. THE ENTIRE HVAC SYSTEM SHALL BE KEPT CLEAN UNTIL FINAL ACCEPTANCE. ANY DAMAGE TO CEILINGS BY THE HVAC CONTRACTOR SHALL BE RECTIFIED BY HIM AT NO ADDITIONAL CHARGE TO THE OWNER, TO THE SATISFACTION OF THE DESIGNER.
3. REPLACE ALL FILTERS IN ALL EXISTING AIR HANDLING UNITS PRIOR TO FINAL ACCEPTANCE BY THE OWNER.

ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

A. THESE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A PRICE FOR MATERIAL AND LABOR PROVISIONS.

B. IT IS NOT INTENDED THAT THE PLANS OR SPECIFICATION SHOW OR STATE EVERY DETAILED REQUIREMENT OF THE WORK, BUT RATHER THAT THEY FURNISH ADEQUATE INFORMATION FOR AN EXPERIENCED CONTRACTOR TO PROVIDE A COMPLETELY ACCEPTABLE INSTALLATION. THE GENERAL CONDITIONS FORM A PART OF THESE SPECIFICATIONS WHETHER ATTACHED HERETO OR NOT, SHALL BE CAREFULLY EXAMINED BEFORE SUBMITTING A PROPOSAL. WHERE GENERAL CONDITIONS CLAUSES ARE REPEATED IN THIS SECTION, IT SHALL BE UNDERSTOOD AS CALLING SPECIAL ATTENTION TO THEM, OR AS A FURTHER QUALIFICATION, AND SHALL NOT BE ASSUMED AS OMITTING ANY OTHER CLAUSES. NO GENERAL CONDITIONS REFERRING TO THE WORK INCLUDED HEREIN SHALL BE CONSIDERED AS WAIVED UNLESS SPECIFICALLY STATED HEREIN.

C. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL PLANS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE WORK OF OTHER TRADES. SUBMISSION OF A COST PROPOSAL (BID) WILL BE JUDGED AS EVIDENCE THAT THE SITE EXAMINATION HAS BEEN MADE. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED FOR WORK TO BE DONE. IT BEING UNDERSTOOD THAT THE SUBMISSION OF A PROPOSAL IS AN AGREEMENT TO ALL CONDITIONS REFERRED TO HEREIN OR INDICATED ON THE PLANS.

D. PROPOSAL MUST INCLUDE EVERYTHING REQUIRED TO PROVIDE A COMPLETE INSTALLATION AS CONTEMPLATED IN A SPECIFICATIONS AND PLANS, WHETHER SPECIFICALLY SHOWN OR SPECIFIED OR NOT. INCLUDED ARE LABOR, MATERIALS, EQUIPMENT, LIGHTS, TOOLS, SCAFFOLDING, ETC. NECESSARY TO COMPLETE INSTALLATION OF EVERYTHING DESCRIBED, SHOWN OR REASONABLY IMPLIED.

E. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE ACCOMPANYING PLANS, OR THESE SPECIFICATIONS AND PLANS AND THE SPECIFICATIONS OF OTHER TRADES, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF THE BID. FAILURE TO COMPLY WITH THE ABOVE SHALL ALLOW THE ARCHITECT TO MAKE A FINAL AND BINDING DECISION AT A LATER DATE AND NO ALLOWANCE WILL BE GIVEN IF THE MORE EXPENSIVE OF THE ITEM IN QUESTION IS SELECTED.

F. THE WORK CALLED FOR IN THESE PLANS AND SPECIFICATIONS SHALL BE COORDINATED WITH THE STRUCTURE, WORK OF ALL RELATED TRADES, AND SHALL BE SO ARRANGED THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF ANY PART OF EACH RESPECTIVE WORK. WHEREIN IT MAY BE INTERRELATED WITH THIS CONTRACT ALL WORK CAN PROCEED IN ITS NATURAL SEQUENCE WITHOUT UNNECESSARY DELAY. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL COST AND DELAYS IN THE WORK RESULTING FROM SUBSTITUTION UNDER THIS DIVISION: INCLUDING, BUT NOT LIMITED TO, ANY CHANGES, INDECISION, INSTALLATION OR THE WORK OF OTHER TRADES.

G. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC (EXCEPT WHERE DIMENSIONED) AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEM AND WORK. FOLLOW ARCHITECTURAL, STRUCTURAL, AND MANUFACTURER'S SHOP DRAWINGS FOR GREATER ACCURACY. CONSULT ENGINEER IN CASE OF DOUBT OR CONFLICT, UNLESS, NOTED, FIXED DIMENSIONS ARE BASED ON THE PRODUCT OF ONE MANUFACTURER, VERIFY DIMENSIONS WITH THE SHOP DRAWINGS OF THE MATERIAL ACTUALLY APPROVED OR PURCHASED.

H. EXACT LOCATION OF ALL EQUIPMENT, PANELS, PULL BOXES, FEEDERS, FIXTURES, ETC., SHALL BE APPROVED BY THE ARCHITECT, AND OWNER PRIOR TO THE INSTALLATION OF THE SAME.

I. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS, AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ALL ELECTRICAL WORK.

J. EXPOSED CONDUITS CAN BE INSTALLED BUT IN NO CASE SHALL BE INSTALLED LESS THAN NINE FEET ABOVE THE FINISHED FLOOR OR AS NOTED. CONDUITS INSTALLED IN THE AREA WHERE HUNG CEILING OR OTHER FURRED SPACES ARE INDICATED SHALL BE INSTALLED CONCEALED. SHOULD ANY WORK REQUIRE SUBSEQUENT MODIFICATION OR RELOCATION TO AVOID INTERFERENCE OR CONFLICTS WITH OTHER WORK, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

K. ANY NECESSARY ELECTRICAL SERVICE INTERRUPTIONS SHALL BE AT A TIME CONVENIENT TO THE BUILDING OWNER.

L. ALL PENETRATIONS THROUGH SLABS AND FIRE RATED PARTITIONS SHALL BE FIRE STOPPED USING APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING.

M. THE E.C. SHALL CALL FOR A FINAL PUNCH-LIST WHEN ALL ELECTRICAL WORK IS COMPLETE. IN THE EVENT REPRESENTATIVES OF THIS OFFICE ARRIVE AT THE SITE AND DEEM WORK IS NOT SUFFICIENTLY COMPLETE, NO REVIEW/PUNCH-LIST WILL OCCUR. THE E.C. WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESCHEDULING THE PUNCH-LIST.

1.02 SCOPE OF WORK

A. WITHOUT INTENDING TO LIMIT AND/OR RESTRICT THE SCOPE OF WORK REQUIRED AND SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, THE WORK OF THIS DIVISION SHALL, IN GENERAL COMPRISE THE FOLLOWING:

1. PROVIDE CONNECTIONS TO ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHER TRADES OR BY THE OWNER.

2. GROUNDING.

1.03 WORK NOT INCLUDED

A. FURNISHING MOTORS, MOTOR STARTER AND CONTROL DEVICES CONNECTED TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. HOWEVER, ELECTRICAL CONTRACTOR WILL ERECT AND WIRE SAME, FURNISH AUXILIARY MOTOR DISCONNECTS AS REQUIRED BY DRAWINGS OR CODE.

B. FINISH PAINTING.

C. TELEPHONE/DATA WIRING AND DEVICES.

PART 2 – PRODUCTS

2.01 EQUIPMENT AND MATERIALS

A. ALL EQUIPMENT AND MATERIALS FOR PERMANENT INSTALLATION SHALL BE THE PRODUCTS OF RECOGNIZED MANUFACTURERS AND SHALL BE NEW.

B. NEW EQUIPMENT AND MATERIALS SHALL:

1. WHERE NORMALLY SUBJECTED TO UNDERWRITER'S LABORATORY INC. LISTING OR LABELING SERVICES, BE SO LISTED OR LABELED.

2. BE WITHOUT BLEMISH OR DEFECT.

3. NOT TO BE USED FOR TEMPORARY LIGHT AND POWER PURPOSES WITHOUT ARCHITECT'S AUTHORIZATION.

4. BE IN ACCORDANCE WITH THE LATEST APPLICABLE N.E.M.A. STANDARD.

5. BE APPROVED BY BUILDING MANAGER OR OWNER.

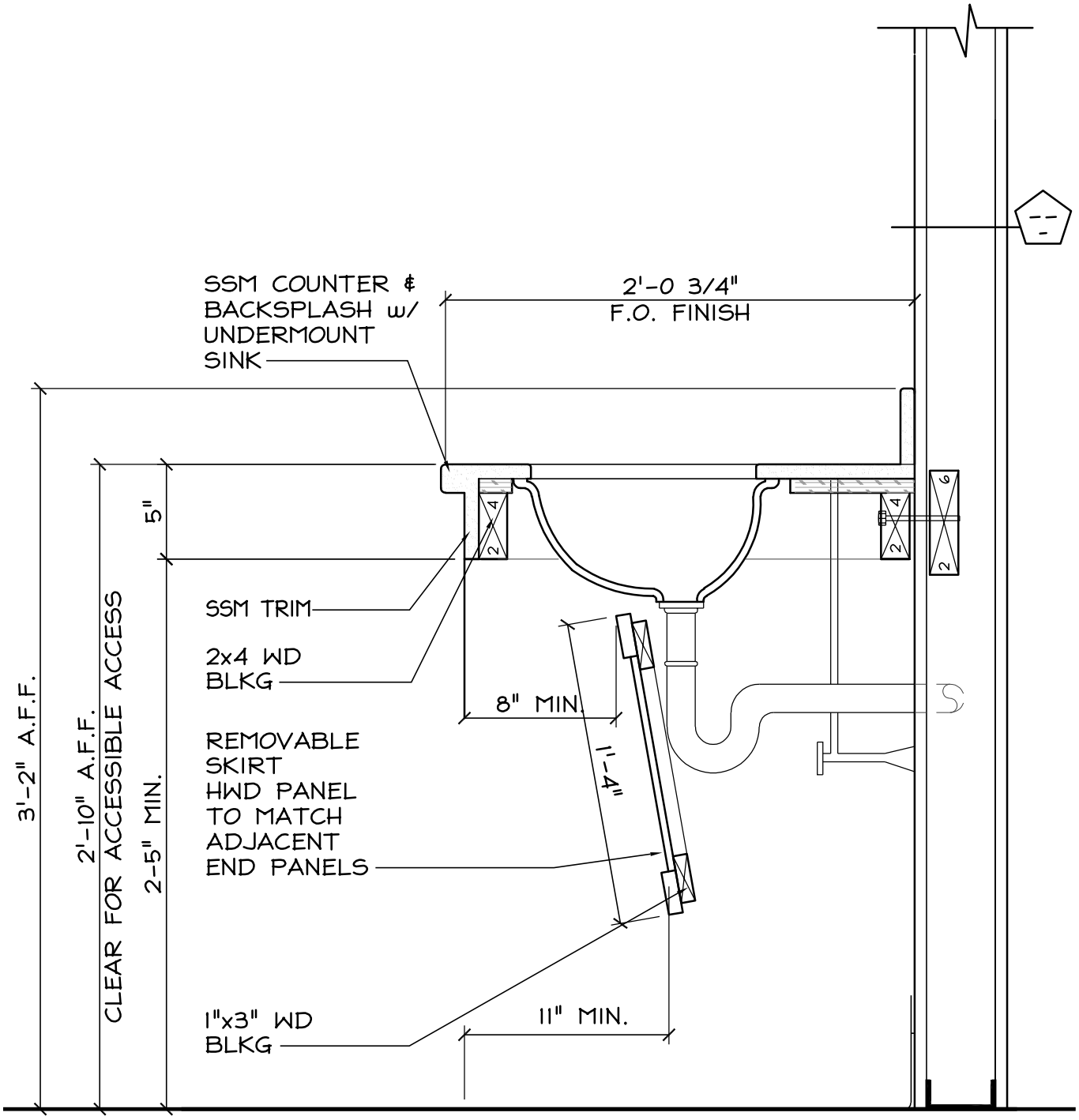
1.04 CODES, PERMITS, AND INSPECTIONS

A. ELECTRICAL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE STATE ELECTRICAL CODE, LOCAL ORDINANCES, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER ALL ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.

B. NOTHING CONTAINED IN THESE SPECIFICATIONS OR PLANS SHALL BE SO CONSTRUED AS TO CONFLICT WITH ANY LOCAL, MUNICIPAL, AND NATIONAL BOARD OF THE FIRE UNDERWRITERS REGULATIONS GOVERNING THE INSTALLATION OF WORK SPECIFIED HEREIN. ALL SUCH LAWS, ORDINANCES, AND REGULATIONS, WHERE THEY APPLY TO THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A PART OF THE SPECIFICATIONS. ALL SUCH REQUIREMENTS SHALL BE SATISFIED AT NO ADDITIONAL EXPENSE TO THE OWNER.

C. ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK.

D. COORDINATE ALL SERVICE WORK WITH THE LOCAL UTILITY COMPANI



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MILLWORK SINK & REMOVABLE SKIRT

Scale: 1 1/2" = 1'-0"

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Project

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Contents

CASEWORK DETAIL

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