

PROJECT NOTES:Berryville Public Works

Renovation of Service Bay to Offices

OWNER: Town of Berryville
Keith Dalton
101 Chalmers Court
Suite A
Berryville, VA 22611
townmanager@berryvilleva.gov
(540) 955-1099

ARCHITECT OF RECORD: Leesa Mayfield Architecture
Winchester, VA 22601
leesa@leesamayfieldarchitecture.com
cell 410-375-1072

GENERAL NOTES:

- VERIFY FIELD CONDITIONS AND DIMENSIONS BEFORE COMMENCING WORK.
- DIMENSIONS TO STUD / FRAMING / BLOCK, U.N.O.
- WINDOW & DOOR DIMENSIONS UNIT SIZE ON PLANS @ OPENINGS.

**ALTERNATES TO BE APPROVED BY OWNER.

1. WORK SHALL COMPLY WITH APPLICABLE ZONING AND BUILDING CODE PROVISIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AND SHALL PASS MUNICIPAL INSPECTIONS REQUIRED BY SUCH AUTHORITIES.

2. THE CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE DRAWINGS, VERIFY SITE CONDITIONS AND DESIGN DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. HE/SHE SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE COMMENCING WITH WORK. VERIFY AS-BUILT CONDITIONS BEFORE EACH STAGE OF CONSTRUCTION. DO NOT SCALE THE DRAWINGS, READ DIMENSIONS AS PROVIDED. WHEN THERE IS A DISCREPANCY, FEET-INCHES DIMENSIONING OVER RULES DECIMEL (FOOT) DIMENSIONS.

3. WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER AND SHALL CONFORM TO GENERALLY ACCEPTED TRADE PRACTICES.

4. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER ASSOCIATED CONTRACT DRAWINGS AND SPECIFICATIONS.

5. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES AND PROCEDURES OF CONSTRUCTION.

6. THE GENERAL CONTRACTOR SHALL PERFORM ALL EXCAVATIONS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE MATERIALS FOUND HEREIN, AS WELL AS THE REMOVAL FROM THE PROJECT SITE AND DISPOSAL OF EXCAVATED MATERIAL UNSUITABLE FOR USE AS FILL. THE CONTRACTOR SHALL ALSO PROVIDE MATERIALS AS NEEDED TO RAISE THE GRADE AS INDICATED ON THE DRAWINGS.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL WORK INCLUDING ALL LINES, LEVELS, GRADES, ELEVATIONS, MEASUREMENTS OF BUILDINGS, GRADING, PAVING, WALKS AND UTILITIES.

8. SUB-CRTRACTORS SHALL COORDINATE THEIR WORK WITH THE GENERAL CONTRACTOR AND OTHER CONTRACTORS PRIOR TO INSTALLATION. WHERE A CONFLICT MAY OCCUR, SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

9. GENERAL CONTRACTOR TO PROVIDE FLASHING INSTALLED IN PLACES NECESSARY TO PREVENT ENTRY OF WATER AND PROVIDE WEATHER-TIGHTNESS. CAULKING SHALL BE INSTALLED AS REQUIRED AND AS PER MANUFACTURER'S RECOMMENDATION.

10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED DOCUMENTATION AND OBTAIN A PERMIT FOR ELECTRICAL WORK.

11. THE MECHANICAL CONTRACTOR SHALL PROVIDE REQUIRED DOCUMENTATION AND OBTAIN A PERMIT FOR MECHANICAL AND PLUMBING WORK.

12. THE GENERAL CONTRACTOR SHALL PROVIDE A FULL ONE YEAR WARRANTY ON MATERIALS AND WORKMANSHIP TO THE OWNER AT THE CLOSE OF THE PROJECT CONSTRUCTION. WHERE WARRANTIES OR GUARANTIES OF LONGER TERMS ARE SPECIFICALLY CALLED FOR, OR FREELY EXTENDED BY THE MANUFACTURER, THEY SHALL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER.

CODE NOTES:

APPLICABLE CODES:
2012 VA REHABILITATION CODE (VRC)
2012 VA CONSTRUCTION CODE (VCC)

JURISDICTION: CLARKE COUNTY

BUILDING CLASSIFICATION:

OCCUPANCY CLASSIFICATION: PRIMARY S-1, MIXED USE (NON-SEPARATED): B, R-3

CONSTRUCTION TYPE:
TYPE 2B UNPROTECTED, NONCOMBUSIBULE

FIRE SPRINKLERS: NON-SPRINKLERED

REHABILITATION CODE EVALUATION:
WORK AREA COMPLIANCE METHOD (SEE PLAN BREAKDOWN)
REPAIRS
CHANGE OF OCCUPANCY: FROM S-1 TO LOWER HAZARD R-3 & B AS PER TABLE VRC 1012.
LEVEL 2 ALTERNATION

HEIGHT AND AREA LIMITATIONS (AS PER VRC SECTION 1012.5.2)
"WHEN A CHANGE OF OCCUPANCY CLASSIFICATION IS MADE TO AN EQUAL OR LESSOR HAZARD CATEGORY... THE HEIGHT AND AREA OF THE EXISTING BUILDING SHALL BE ACCEPTABLE"

OCCUPANT LOAD:
TABLE 1004.1.1
"DORMITORIES" - SLEEPING + BATHROOMS = 190SF / 50 = 3
LOCKER ROOM - UNCONCENTRATED ASSEMBLY = 120SF / 15 = 8
OFFICE - 700 SF / 100 = 7
TOTAL: 18

EGRESS
BASED ON OCCUPANT LOAD PER FLOOR (SEE ABOVE)

EGRESS WIDTH (SECTION 1005.3.1) INCHES = 0.2 INCH x OCCUPANT (18) = 3.6 = OK

STAIRWAYS WIDTH : N/A

EERO PROVIDED @ BUNK ROOM (R3) AS SECOND EGRESS

SPACES W/ ONE EXIT OR EXIT ACCESS DOORWAY:
NOT ALLOWED PER TABLE 1015.1, NEED 2 EXITS

COMMON PATH OF TRAVEL:
AS PER TABLE 1014.3, LESS THAN 30 OCCUPANTS, 100 FEET
ACTUAL: < 100 FEET

USE GROUP AND OCCUPANCY SIGNS REQUIRED, ALL EGRESS SHALL BE READILY OPERABLE FROM THE SIDE WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY, KNOWLEDGE OR SPECIAL EFFORT.

ALL LOCKS AND LATCHES ARE TO BE INSTALLED ON REQUIRED EGRESS / EXIT DOORS PER 1008.1.9.

EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTIONS OF EGRESS TRAVEL AS PER SECTION 1011 AND PROPERLY ILLUMINATED AS PER SECTION 1006.

FUTURE STAIRWAY SHALL COMPLY WITH SECTION 1009, HANDRAILS WITH SECTION 1012 AND GUARDRAILS WITH SECTION 1013.

PROVIDE COMBINATION SMOKE AND CO2 DETECTORS, PER BUILDING INSPECTOR

ACCESSIBILITY: 1 ADA BATHROOM, ROLL-IN SHOWER KIT

TOILETS: 1 PER 50, TYP. OF BUSINESS. NO DRINKING FOUNTAIN REQUIRED PER LUNCHROOM FACILITIES.

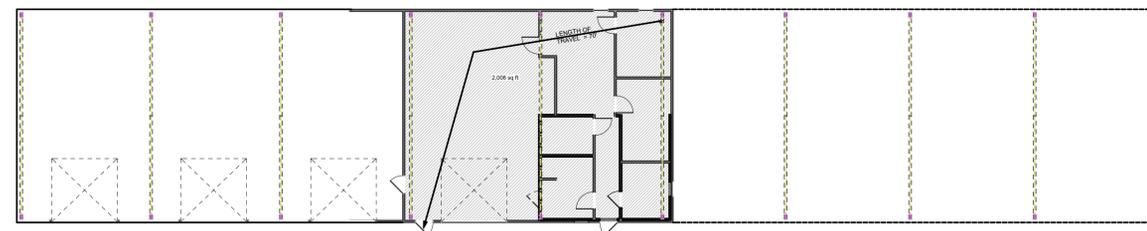
INSULATION: R-13 @ WALLS BETWEEN STUDS @ EXT. WALLS. R-19 OR 22 BETWEEN CEILING JOISTS.

Berryville Public Works

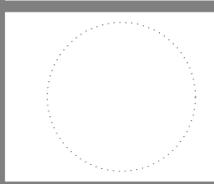
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SHEET INDEX	
ID	Name
CS	COVER SHEET
D100	EXISTING / DEMOLITION PLAN
A101	PROPOSED PLAN
A102	RCP, ELEVATIONS, & DETAILS
M101	MECHANICAL PLAN
M102	MECHANICAL SCHEDULES & DETAILS
E-1	LIGHTING PLAN
E-2	POWER PLAN
E-3	ELECTRICAL NOTES
P101	PLUMBING PLAN
P102	PLUMBING WATER & GAS PLAN
P103	PLUMBING DETAILS



1 KEY PLAN
SCALE: 1/16" = 1'-0"
PLAN NORTH
WORK AREA, LEVEL 2 ALTERATION VRC



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MARK	DATE	DESCRIPTION

PROJECT NO: 099
DATE: 1/2/2019

SHEET TITLE
COVER SHEET

CS

PERMIT SET



LEESA MAYFIELD ARCHITECTURE



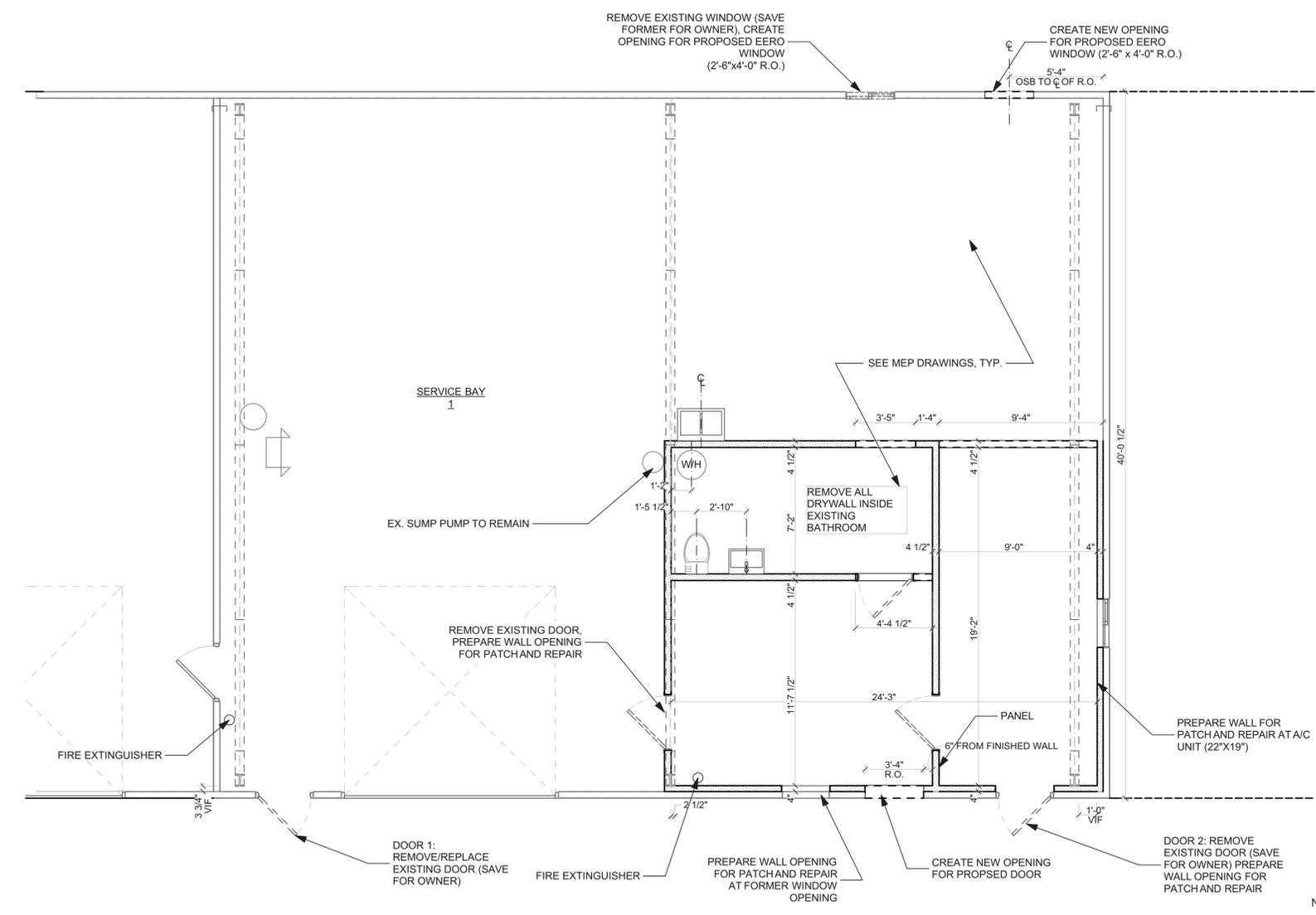
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- DEMOLITION NOTES:**
1. Before beginning work at the site and throughout the course of work, inspect and verify the location and condition of items affected by the Work under this Contract and report discrepancies to the Owner/Architect before doing Work related to that being inspected.
 2. Carefully remove all items noted for reuse. Protect and transport items to designated storage areas.
 3. Items to be salvaged for reuse include (but are not limited to) the following: front doors and frames, windows as per notes, and kitchen appliances as per Owner.
 4. Daily inspect the site and pick up all scrap, debris and waste material. Remove such items to the place designated for their storage.
 5. While Work under this Contract is in progress, protect existing buildings, grounds, contents, and occupants, including those on adjacent properties, whether private or public, from damage or harm due to the Work under this Contract.
 6. Access to the site and within the site to the existing building is also required for fire-fighting equipment.
 7. Damage caused by the Contractor to existing structures, pavements, utilities, work by others, fixtures, or furnishings, shall be repaired by the Contractor and left in as good condition as existed before the damaging unless such existing work is shown to be removed or replaced by new Work.
 8. Cover all exterior openings for watertight protection from the weather.
 9. Demolition shall include cutting and fitting to accommodate the work of all trades.
 10. Patches and repairs shall match existing adjacent work and shall not be obvious as patching. General Contractor shall provide or coordinate with subcontractors all openings at the existing foundation for new HVAC, electric and plumbing lines.

- KEY:**
- EXISTING WALL TO BE REMOVED
 - EXISTING WALL TO REMAIN
 - EXISTING DOOR TO BE REMOVED, SAVE FOR FUTURE USE
 - EXISTING WINDOW TO BE REMOVED, SAVE FOR FUTURE USE
 - EXISTING DOOR TO REMAIN



1 EXISTING/ DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

MARK	DATE	DESCRIPTION

PROJECT NO: 099
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SHEET TITLE
EXISTING / DEMOLITION PLAN

D100

PERMIT SET

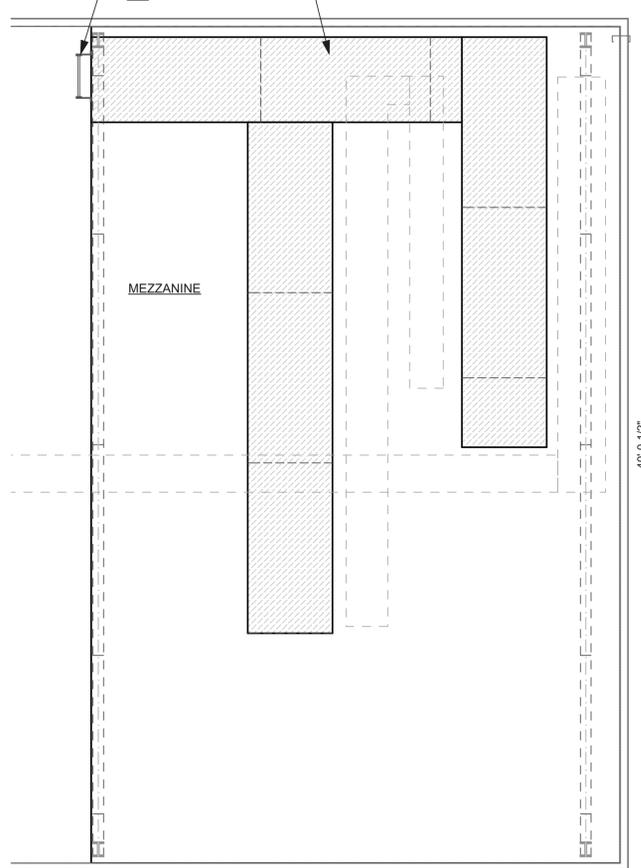
FINISH SCHEDULE									
ROOM ID	ROOM NAME	FLOOR	WALL				CEILING		NOTES
			N	S	E	W	MATL.	HT.	
101	LUNCH ROOM	LVT	GWB2 PT1 VWB	GWB1 PT1 VWB	GWB2 PT1 VWB	GWB2 PT1 VWB	GWB2 PT3	8'-0"	
102	BUNK ROOM	LVT	GWB2 PT1 VWB	GWB2 PT1 VWB	GWB2 PT1 VWB	GWB2 PT1 VWB	GWB2 PT3	8'-0"	
103	OFFICE 1	LVT	GWB2 PT1 VWB	GWB2 PT1 VWB	GWB1.2 PT1 VWB	GWB1.2 PT1 VWB	GWB1.2 PT3	8'-0"	
104	OFFICE 2	LVT	GWB2 PT1 VWB	GWB1.2 PT1 VWB	GWB1 PT1 VWB	GWB1 PT1 VWB	GWB1 PT3	8'-0"	
105	HALL	LVT	N/A PT1 VWB	GWB1 PT1 VWB	GWB1 PT1 VWB	GWB2 PT1 VWB	GWB1.2 PT3	8'-0"	
106	LOCKER ROOM	LVT	GWB1 PT1 VWB	GWB1 PT1 VWB	GBW2 PT1 VWB	GWB1 PT1 VWB	GWB1 PT3	8'-0"	PROVIDE GWB3 FOR SHOWER SURROUND SEE PLAN
107	BATH ROOM	LVT	GWB2 PT2 VWB	GWB2 PT2 VWB	GWB2 PT2 VWB	GWB2 PT2 VWB	GWB1 PT3	8'-0"	
108	EYEWASH STATION	CONC	GWB3 PT2 VWB	GWB3 PT2 VWB	GWB3 PT2 VWB	N/A PT2 VWB	GWB2 PT3	8'-0"	

FINISH KEY						
CODE	MATERIAL	MANUFACTURER	DESCRIPTION			NOTES
			PRODUCT	COLOR	DIMENSION	
LVT	LUXURY VINYL TILE	KARNDÉAN	OPUS	NERO	18"X18"	REPAIR AND PATCH EXISTING WALL NEW INSTALLATION
GWB1	GYPSUM WALLBOARD	EXISTING				
GWB2	GYPSUM WALLBOARD					
GWB3	CEMENT BOARD	USG	DUROCK		1/2"x4"x8"	
PT1	ACRYLIC PAINT	BENJAMIN MOORE	REGAL CLASSIC	2111-60		EGGSHELL FOR WALLS, TYP
PT2	ACRYLIC PAINT	BENJAMIN MOORE	REGAL CLASSIC	2111-60		SEMI-GLOSS FOR DOOR AND TRIM
PT3	ACRYLIC LAYTEX PAINT	BENJAMIN MOORE	MURESCO	CEILING WHITE		FLAT FOR CEILING
VWB	VINYL WALL BASE	JOHNSONITE	RWDC-63	BURNT UMBER B	4 1/4" X 120"	
CONC	CONCRETE TO REMAIN					

WINDOW SCHEDULE							
ID	MANUFACTURER	MODEL	SIZE, R.O.		TYPE	MATERIAL	NOTES
			WIDTH	HEIGHT			
A	ANDERSEN 100 Series	2640	2'-6"	4'	CASEMENT	VINYL CLAD	PROVIDE SCREEN

NOTE: SEE DETAIL A102

PLYWOOD ACCESS TO MECHANICAL, SEE M101



2 MEZZANINE LEVEL
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE									
ID	TYPE	W	HT	MATL	FRAME		R.O.	HW SET	NOTES
					W	THK			
101	EXTERIOR	3'	6'-8"	HOLLOW METAL	2.00"	0'-4"	40"x82"	KEY1	
102	EXTERIOR	3'	6'-8"	HOLLOW METAL	2.00"	0'-4"	40"x82"	KEY1	
103	INTERIOR	3'	6'-8"	PARTICLE CORE	0'-3/4"	0'-4"	38"x81"	PRIVACY	
104	INTERIOR	3'	6'-8"	PARTICLE CORE	0'-3/4"	0'-4"	38"x81"	KEY2	
105	INTERIOR	3'	6'-8"	PARTICLE CORE	0'-3/4"	0'-4"	38"x81"	PRIVACY	
106	INTERIOR	3'	6'-8"	PARTICLE CORE	0'-3/4"	0'-4"	38"x81"	KEY3	
107	INTERIOR	3'	6'-8"	PARTICLE CORE	0'-3/4"	0'-4"	38"x81"	PRIVACY	
108	INTERIOR	3'	6'-8"	PARTICLE CORE	0'-3/4"	0'-4"	38"x81"	PASSAGE	

DOOR SCHEDULE SPEC: QUOTE (# 2102353 Revision #1) AVAILABLE AT PRECISION HARDWARE 45110 Ocean Ct., Suite 110- Sterling, VA 20166- #703-669-2900
 INTERIOR DOORS: FLUSH WOOD DOORS - PRIMED HARBARD PARTICLE CORE WOOD DOORS W/WOOD FRAMES (JAMBS ONLY)
 PT2, SEE FINISH KEY. DOORS TO HAVE 1x4 CASING @ JAMB, PT2 FINISH
 EXTERIOR DOORS: HOLLOW METAL WITH METAL FRAMES

HARDWARE KEY					
CODE	MANUFACTURER	DESCRIPTION	PRODUCT	FINISH	NOTES
KEY1	HAGER	LOCKSET	3553 WTN MK	US26D	COORDINATE KEY SYSTEM W/OWNER
KEY2	HAGER	LOCKSET	3553 WTN MK	US26D	COORDINATE KEY SYSTEM W/OWNER
KEY3	HAGER	LOCKSET	3553 WTN MK	US26D	COORDINATE KEY SYSTEM W/OWNER
PRIVACY	HAGER	PRIVACY SET	3540 WTN	US26D	
PASSAGE	HAGER	PASSAGE SET	3510 WTN	US26D	
INTERIOR DOORS	HAGER	HINGE	ECBB1100 4 1/2 x 4 1/2	US26D	
	IVES	FLOOR STOP	FS444	US26D	
EXTERIOR DOORS	HAGER	HINGE	ECBB1101 4 182 x 4 1/2 NRP	US32D	
	HAGER	EXIT DEVICE	4701 RIM 36"	US32D	
	HAGER	EXIT DEVICE TRIM	47KE WTN	US32D	
	LCN	CLOSER	1450 REG/PA	AL	
		GASKET	601 A 36"		
	PEMCO	WEATHERSTRIP	303 AV 1x36" 2x84"		
	PEMCO	THRESHOLD	171 A 36"		
	ROCKWOOD	DOOR SILENCER	608-RKW	GREY	
	ROCKWOOD	DOOR STOP	411H	US26D	

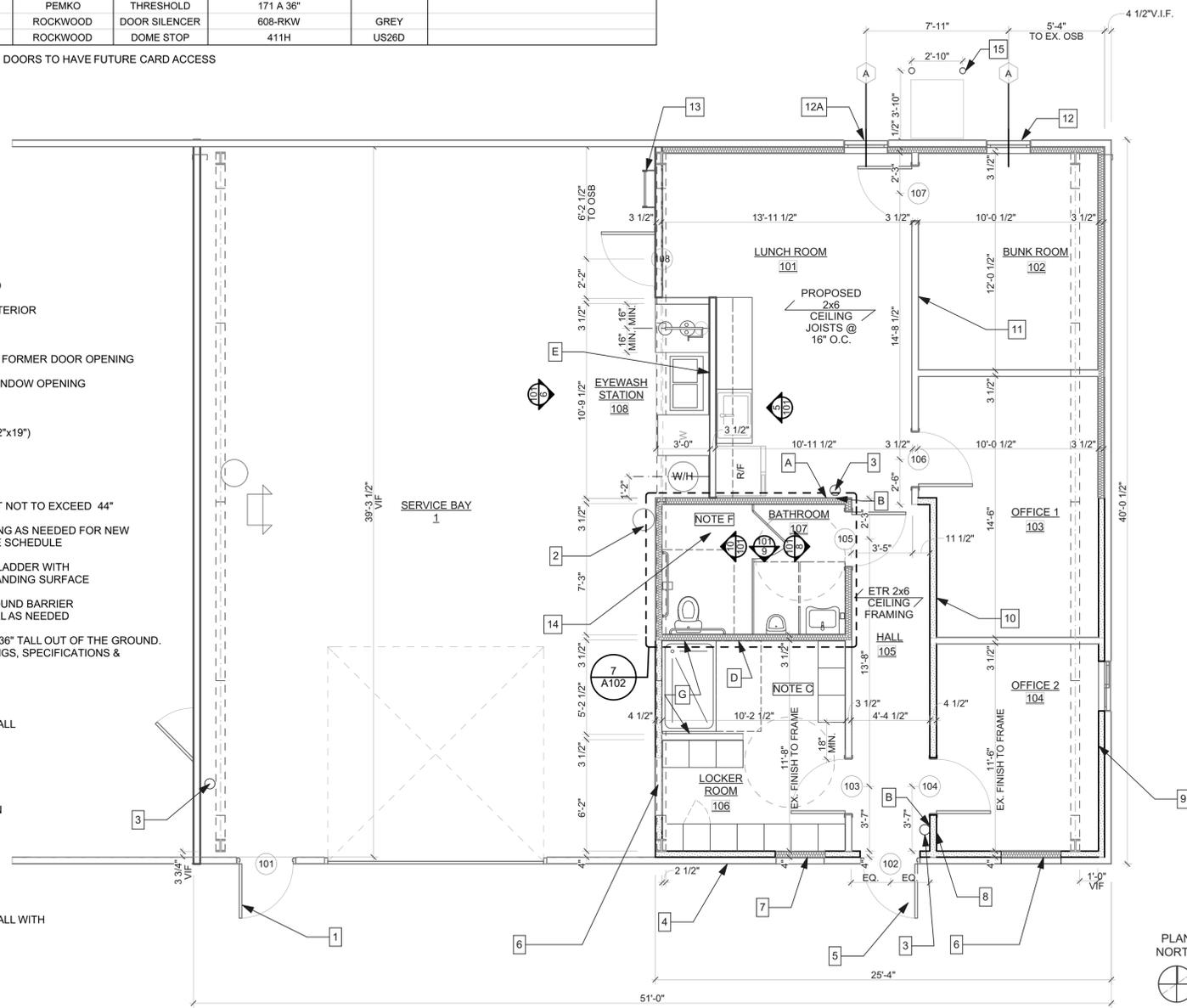
NOTE: EXTERIOR DOORS TO HAVE FUTURE CARD ACCESS

KEYED NOTES:

- 1 - PROPOSED REPLACEMENT DOOR
- 2 - EXISTING SUMP PUMP TO REMAIN
- 3 - FIRE EXTINGUISHER, OWNER PROVIDED
- 4 - PATCH EXISTING EXHAUST VENT ON EXTERIOR
- 5 - PROPOSED NEW DOOR
- 6 - PATCH AND REPAIR WALLS AS NEEDED IN FORMER DOOR OPENING
- 7 - PATCH AND REPAIR WALL @ FORMER WINDOW OPENING
- 8 - PANEL TO REMAIN
- 9 - PATCH AND REPAIR WALL AT A/C UNIT (22"x19")
- 10 - BEARING WALL TO REMAIN
- 11 - PROPOSED BEARING WALL
- 12 - PROPOSED EERO WINDOW, SILL HEIGHT NOT TO EXCEED 44"
- 12A - REPLACEMENT WINDOW, BLOCK OPENING AS NEEDED FOR NEW WINDOW, LOWER SILL AS REQUIRED, SEE SCHEDULE
- 13 - WALL MOUNTED LADDER: FIXED STEEL LADDER WITH WALKTHROUGH HANDRAIL AT THE TOP LANDING SURFACE
- 14 - INSTALL 3 1/2" BATT INSULATION FOR SOUND BARRIER @ BATHROOM WALLS. FINISH W/ DRYWALL AS NEEDED
- 15 - (2) 4" DIA. CONCRETE FILLED BOLLARD, 36" TALL OUT OF THE GROUND. COORDINATE WITH MECHANICAL DRAWINGS, SPECIFICATIONS & MANUFACTURER'S RECOMMENDATIONS

KEY:

- PROPOSED 2x4 FRAMED WALL
- EXISTING WALL TO REMAIN
- EXISTING DOOR TO REMAIN
- PROPOSED DOOR
- PROPOSED 2x4 FRAMED WALL WITH INSULATION TO CODE



1 MAIN LEVEL
SCALE: 1/4" = 1'-0"

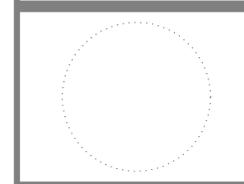
- GENERAL NOTES:**
1. REPAIR AND PATCH WALLS, FLOORS AND EXISTING TO REMAIN WINDOWS AND DOORS AS REQUIRED TO ACHIEVE A UNIFORM FINISH.
 2. CONFIRM ALL DIMENSIONS IN FIELD. REVIEW ALL DISCREPANCIES WITH ARCHITECT BEFORE CONSTRUCTION.
 3. 139" TO UNDERSIDE OF DUCTWORK IN BAY
 4. 136" TO SPRING LINE OF ROOF
 5. PROVIDE R-19 MIN. BETWEEN CEILING JOISTS, TYP.

PLUMBING FIXTURES:
- TO BE SPECIFIED BY COMFORT DESIGNS

APPLIANCES:
- OWNER PROVIDED

BLOCKING KEY:
PROVIDE BLOCKING AS NEEDED IN FOLLOWING AREAS, SEE KEY TO PLAN 1/A101

- A - TV MOUNT, SEE MANUFACTURER SPEC. (OWNER PROVIDED)
- B - FIRE EXTINGUISHER
- C - BLOCKING ALL AROUND THE ROOM FOR LOCKERS TO BE MOUNTED, SEE MANUFACTURERS RECOMMENDATION
- D - TOWEL HOOKS. 1ST AT 48" MAX HEIGHT, 2ND AT 70" (OWNER PROVIDED)
- E - SHELF MOUNT ABOVE SINK, HEIGHT 54" ABOVE F.F.
- F - GRAB BARS, PARTITIONS, TOILET PAPER HOLDER, SOAP DISPENSER AND PAPER TOWEL HOLDER, SEE ELEVATIONS A102
- G - SEE MANUFACTURER RECOMMENDATION FOR SHOWER BLOCKING



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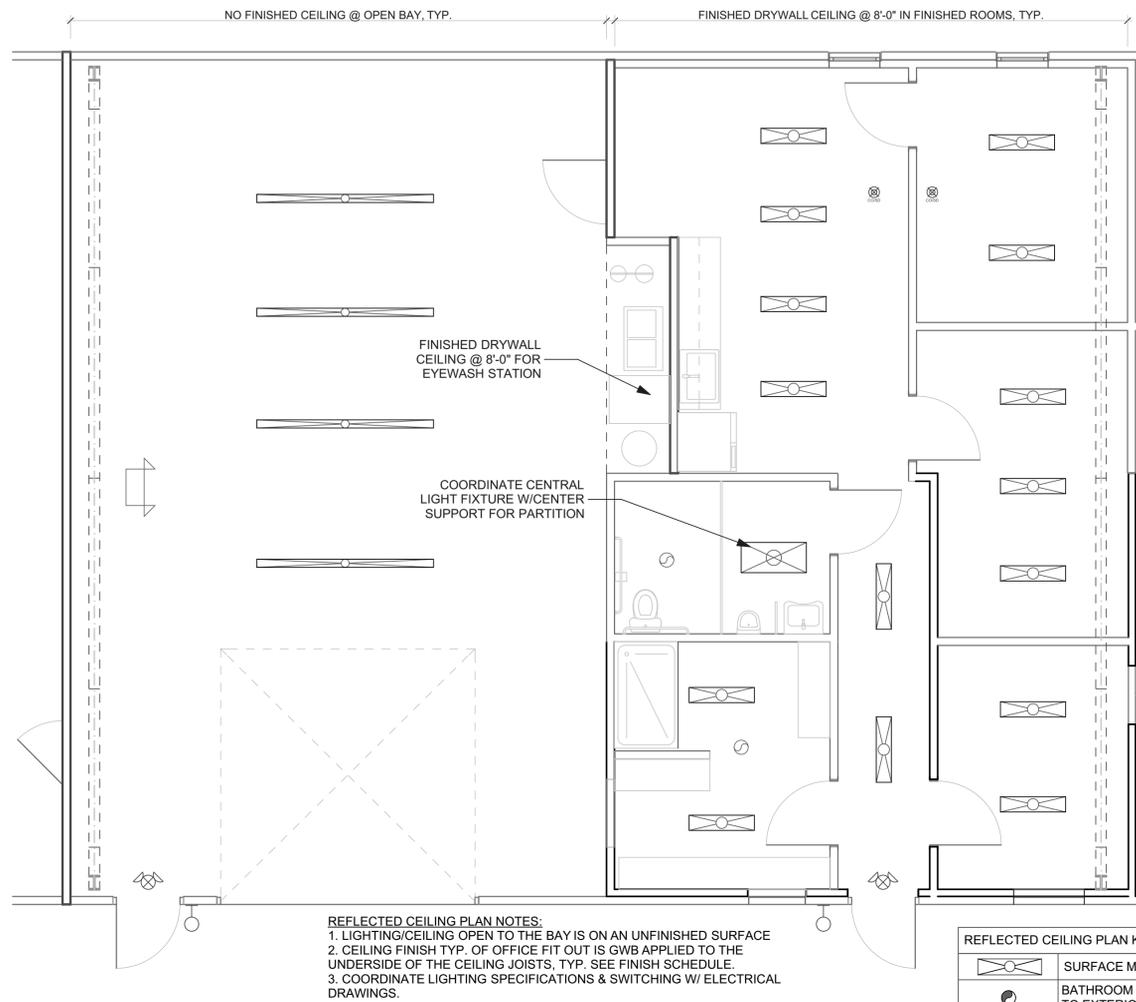
NO.	DATE	DESCRIPTION

PROJECT NO: 099
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SHEET TITLE
PROPOSED PLAN

A101

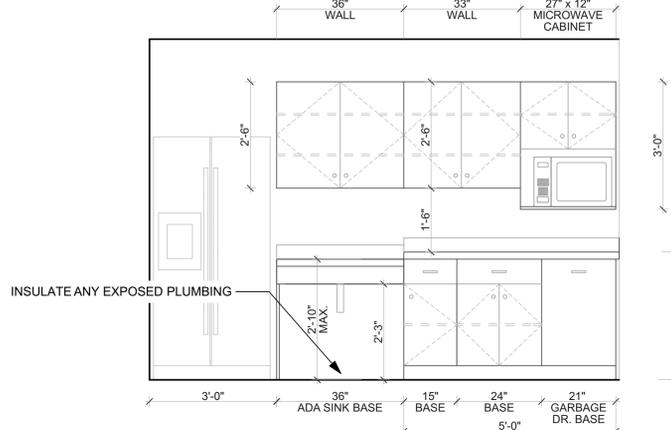
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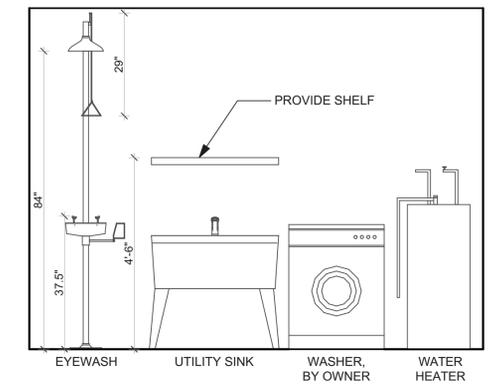
1 MAIN LEVEL REFLECTED CEILING PLAN
 SCALE: 1/4" = 1'-0"

REFLECTED CEILING PLAN KEY

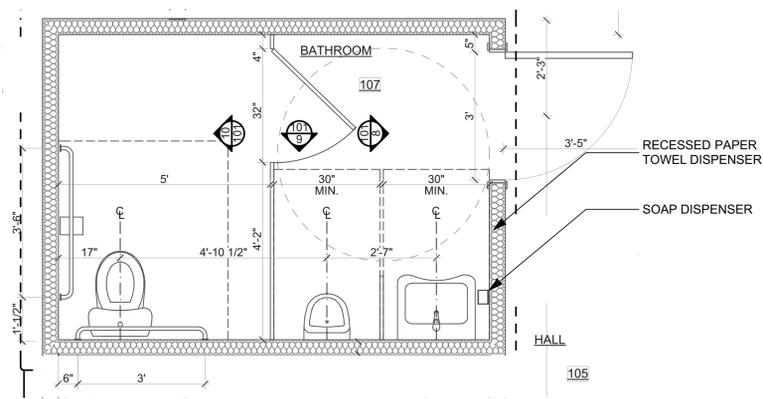
	SURFACE MOUNT LED LIGHT
	BATHROOM EXHAUST FAN, VENT TO EXTERIOR
	COMBINATION CO & SMOKE DETECTOR
	EXIT/EMERGENCY LIGHT
	EXTERIOR WALL SCONCE



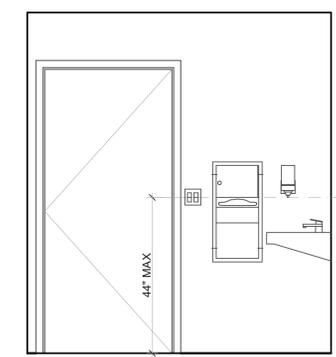
5 LUNCH ROOM
 SCALE: 1/2" = 1'-0"
LUNCH ROOM NOTES:
 - REFRIGERATOR AND MICROWAVE BY OWNER
CABINETS:
 - KRAFTMAID EVERCORE, OR EQUAL. BOXES TO BE SIZED PER DIMENSIONS SHOWN
 - PAINTED WHITE FINISH
 - PROVIDE HARDWARE AS NEEDED: KNOBS @ CABINET DOORS, HANDLES @ DRAWERS, SOFT CLOSE
 - 2 SHELVES PER UPPER UNIT, 1 SHELF PER BASE
COUNTER:
 - FORMICA OR EQUAL: FINISH 6942-58
 - 4" BACKSPLASH



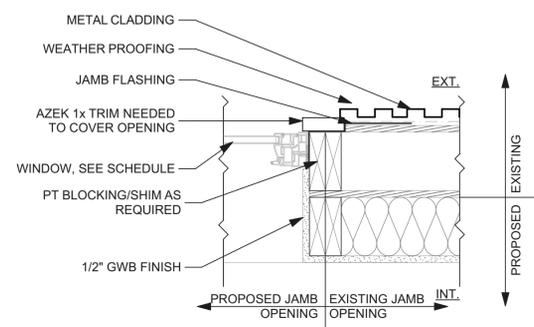
6 EYE WASH STATION
 SCALE: 1/2" = 1'-0"
EYE WASH STATION NOTES:
 - COORDINATE FIXTURES AND APPLIANCES WITH MEP DRAWINGS



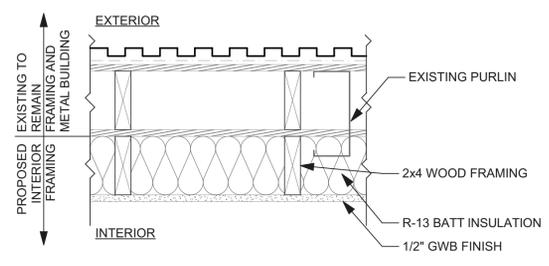
7 ENLARGED BATHROOM PLAN
 SCALE: 1/2" = 1'-0"
BATHROOM NOTES:
 - COORDINATE W/ FIXTURES SPECS & NOTES ON MEP DRAWINGS



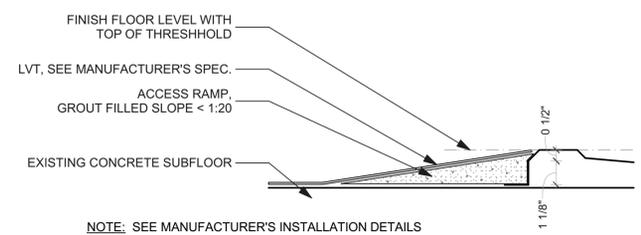
8 BATH ELEVATION A
 SCALE: 1/2" = 1'-0"



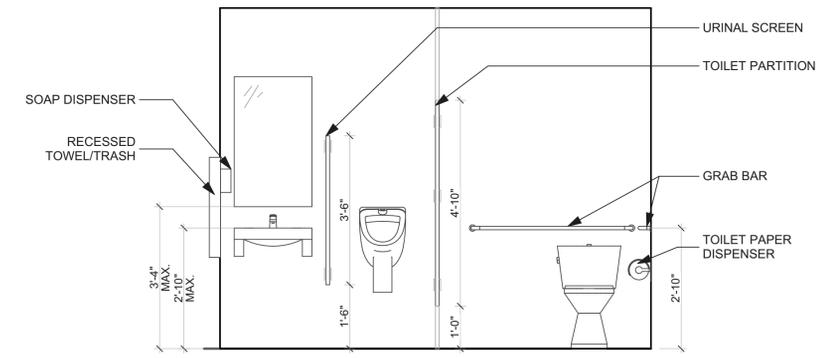
2 WINDOW TRIM
 SCALE: 1 1/2" = 1'-0"



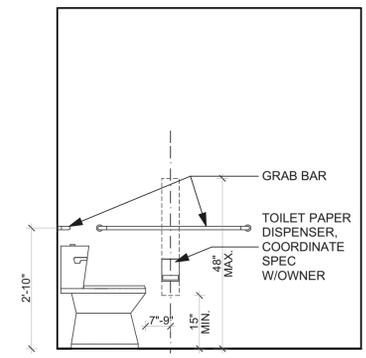
3 EXTERIOR WALL TYPE
 SCALE: 1 1/2" = 1'-0"



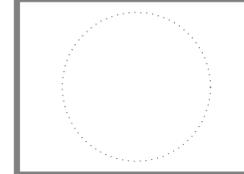
4 SHOWER THRESHOLD DETAIL
 SCALE: 3" = 1'-0"
 NOTE: SEE MANUFACTURER'S INSTALLATION DETAILS



9 BATH ELEVATION B
 SCALE: 1/2" = 1'-0"
PARTITIONS: BOBRICK DuraLine® COMPACT LAMINATE
 - BOBRICK 1088 FLOOR TO CEILING ANCHORED COMPARTMENT SCREEN WITH 32" OUTSWING DOOR
 - BOBRICK 1085 WALL HUNG SCREEN BETWEEN SINK AND URINAL
FINISH: GRAPHITE GRAFIX 515-58
ACCESSORIES:
 - BOBRICK B-369, RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE
 - SOAP DISPENSER, MIRROR, & TOILET PAPER DISPENSER SPECS COORDINATED W/OWNER



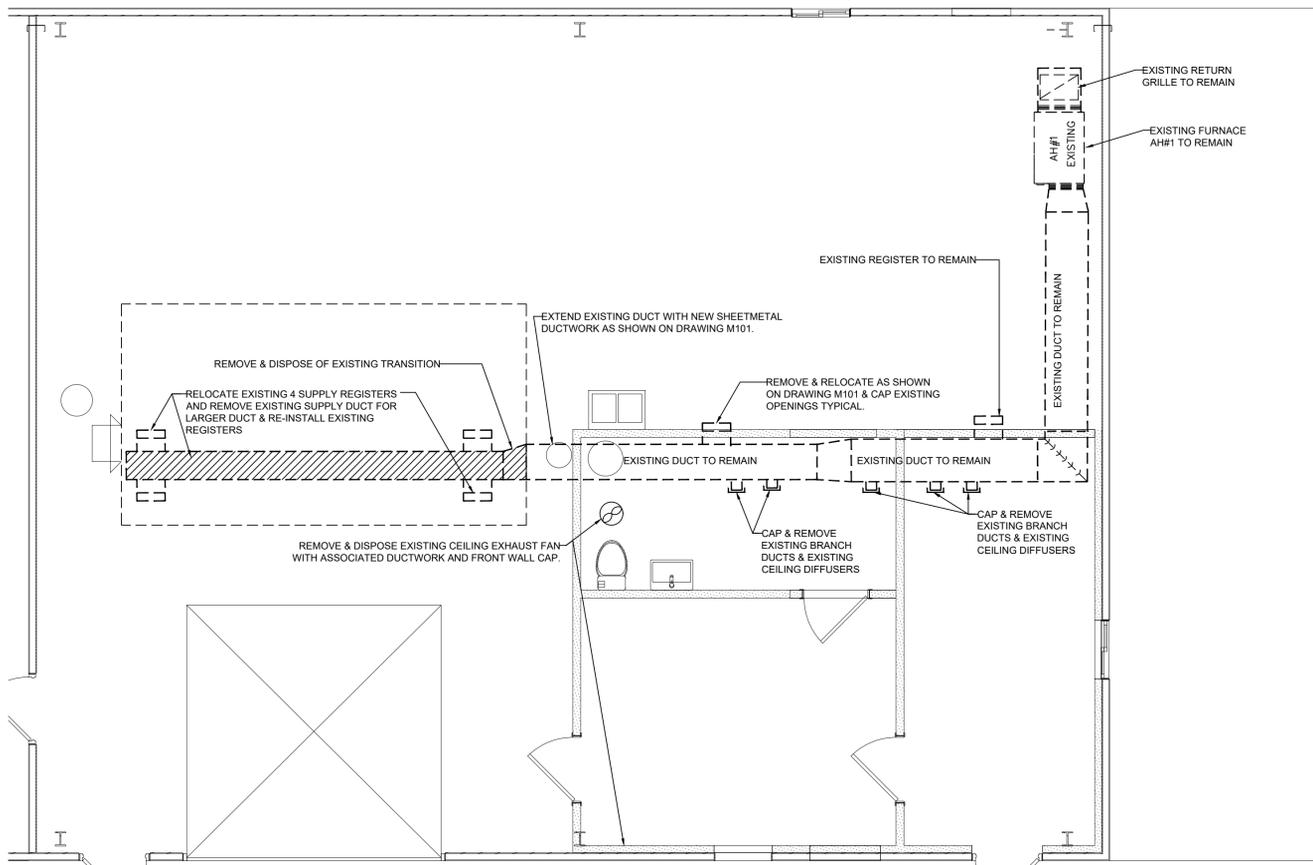
10 BATH ELEVATION C
 SCALE: 1/2" = 1'-0"



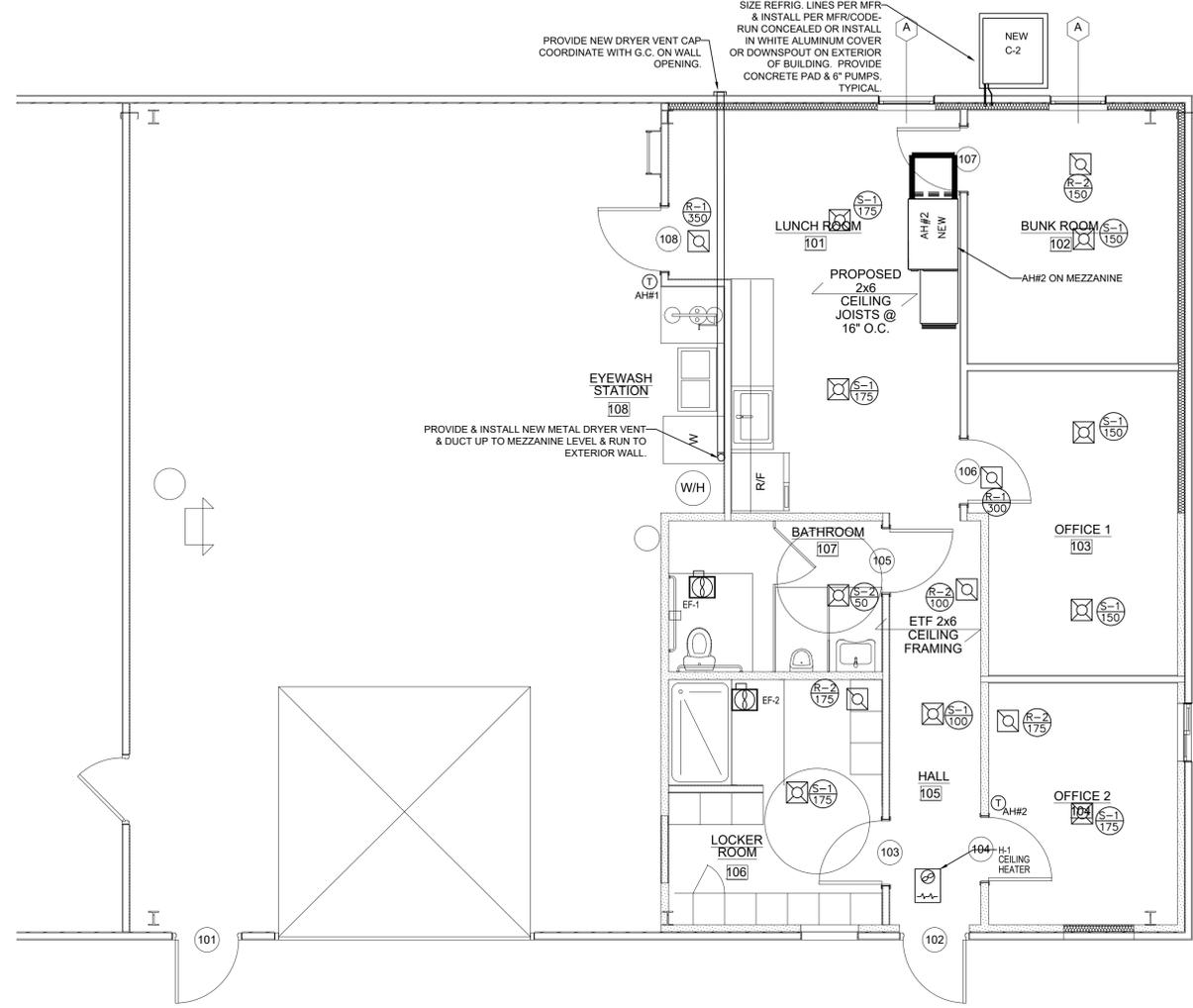
MARK	DATE	DESCRIPTION

PROJECT NO: 099
 DATE: 1/2/2019

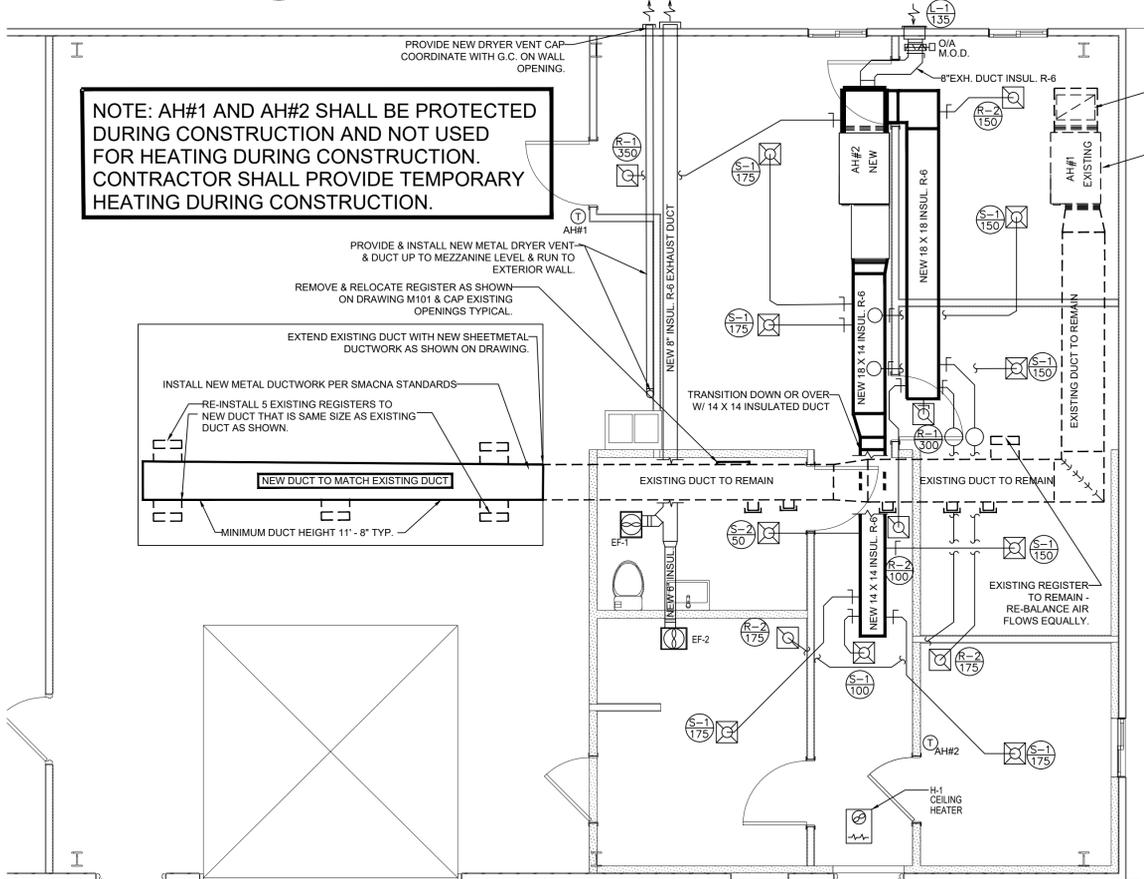
SHEET TITLE
RCP, ELEVATIONS, & DETAILS



1 MECHANICAL HVAC DEMOLITION PLAN
SCALE : 1/4" = 1'-0"



2 MECHANICAL NEW HVAC PLAN
SCALE : 1/4" = 1'-0"



3 MECHANICAL MEZZANINE HVAC PLAN
SCALE : 1/4" = 1'-0"

- MECHANICAL LEGEND:**
- TRANE THERMOSTAT W/ PROGRAMMABLE FAN CYCLE, TEMPERATURE AND HUMIDITY CONTROL, AND LOCKABLE COVER. MOUNT 4 FEET A.F.F. PER A.D.A. INSTALL PER SMACNA STANDARDS. EXISTING DUCTWORK IS NOTED WITH DASHED LINES.
 - METAL DUCT UNINSULATED OR W/ INSULATION OR ACOUSTICAL LINER AS SPECIFIED.
 - METAL DUCT ELBOW W/ TURNING VANES & INSULATION OR LINER AS NOTED ABOVE
 - METAL TRANSITION W/ INSULATION OR INTERIOR LINER AS NOTED ABOVE
 - BRANCH ROUND SOLID OR FLEX TAKEOFF WITH BALANCING DAMPER AND INSULATED. FLEXIBLE AIR DUCT SHALL NOT EXCEED 8 FT & HAVE R-6 INSULATION OR BETTER.
 - SUPPLY DUCT CHANGE OF DIRECTION
 - RETURN DUCT OR EXHAUST DUCT CHANGE IN DIRECTION
 - PIPE UP
 - PIPE DOWN
 - DIFFUSER/REGISTER MARK - SEE SCHEDULE
 - CFM SETTING FOR DIFFUSER/REGISTER
 - EXHAUST FAN WITH DUCTWORK, SOFFIT & GRILLE, AND CONTROLS AS SPECIFIED
 - SURFACE MOUNT SUPPLY DIFFUSER WITH ADJUSTABLE PATTERN AND ROUND BOOT.
 - SURFACE MOUNT RETURN AIR GRILLE WITH BOOT
 - ADJUSTABLE 2-WAY SUPPLY REGISTER.
 - INSULATED W/ FOIL FACED FIBERGLASS DUCT WRAP AND SEALED PER SMACNA
 - O/A OUTSIDE AIR FOR VENTILATION PER CODE
 - F-# HIGH EFFICIENCY GAS FURNACE W/ AC COIL
 - C-# OUTSIDE A/C CONDENSER WITH PAD AND ELEVATED 6" ABOVE GROUND LEVEL
 - H-# CEILING ELECTRIC HEATER WITH THERMOSTAT

ELECTRIC HEATER SCHEDULE

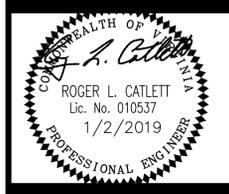
MARK	DESCRIPTION	MFR	MODEL	UNIT QTY	HEAT WATTS	VOLTAGE	REMARKS
H-1	RECESSED CLG HEATER	QMARK	EFF-4004	1	3000	208/1/60	W/ BUILT-IN T'STAT & SURFACE MOUNT FRAME

NOTE: COORDINATE W/ ELECTRICAL CONTRACTOR ON FINAL LOCATION, BREAKER SIZE REQUIRED, & POWER.

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION	MFR OR EQUAL	MODEL	CFM	SP	SONES	MOTOR	VOLTAGE	REMARKS
EF-1*	CEILING EXHAUST FAN	GREENHECK	SP-A110	90	0.25"	1.6	49 W	115/1/60	W/ HANGERS, BACKDRAFT DAMPER & DUCT TO SOFFIT & MANUFACTURER'S GRILLE WL10X3
EF-2**	CEILING EXHAUST FAN	GREENHECK	SP-A110	90	0.25"	1.6	49 W	115/1/60	W/ HANGERS, BACKDRAFT DAMPER & DUCT TO SOFFIT & MANUFACTURER'S GRILLE WL10X3

*CEILING FAN EF-1 SHALL SWITCH ON WITH LIGHT OCCUPANCY SENSOR. COORDINATE W/ ELECTRICAL CONTRACTOR.
**CEILING FAN EF-2 SHALL SWITCH ON WITH WALL SWITCH. COORDINATE W/ ELECTRICAL CONTRACTOR.



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Winchester, VA 22601

MARK	DATE	DESCRIPTION

PROJECT NO: 099
DATE: 1/2/2019

SHEET TITLE
MECHANICAL PLAN

SCALE: 1/4" = 1'-0"
M101
SHEET 1 OF 2

- MECHANICAL SCOPE OF WORK:
- PROVIDE COMPLETE HVAC SYSTEMS W/ REFRIGERANT PIPING (INSULATE SUCTION LINES), DAMPERS, CONTROLS, EXTERIOR INSULATED METAL DUCTWORK, DIFFUSERS, GRILLES, PROGRAMMABLE THERMOSTATS W/ TEMPERATURE & HUMIDITY CONTROL AND PROGRAMMABLE FAN CYCLE (FAN RUNS CONTINUOUSLY DURING OCCUPIED MODE AND CYCLES DURING UNOCCUPIED), MFR'S MATCHING REFRIGERANT COIL, FLEXIBLE COLLARS, MOTORIZED OUTSIDE AIR DAMPERS, LP GAS PIPING, LOW AMBIENT CONTROLS, AND ALL CONTROLS FOR DEHUMIDIFICATION, HEATING, AND AIR CONDITIONING. PROVIDE PVC COMBUSTION AIR AND EXHAUST PIPING PER MANUFACTURER & CODE. PROVIDE NEW CONDENSATE PUMP IN UNIT AND PIPE TO EXTERIOR DRAIN GUTTER OR ROOF OR GRAVITY TO GRADE.
 - PROVIDE ELECTRIC CEILING HEATER WITH INTERNAL THERMOSTAT AND ALL FITTINGS FOR INSTALLATION.
 - ALL MAIN SUPPLY & RETURN DUCT TRUNKS SHALL BE METAL W/ INTERIOR LINER OR EXTERIOR INSULATION AS SPECIFIED. SEAL ALL JOINTS AND SEAMS W/ MASTIC. RUN METAL SUPPLY AND RETURN DUCTS AS INDICATED ON DRAWINGS. ALL SHEET METAL DUCTWORK SHALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, 2ND EDITION FOR 1.0" W.G. STATIC PRESSURE AND INTERIOR FLEXIBLE LINER FOR VELOCITY 2501 FPM TO 6000 FPM (SECTION 2.6). EXPOSED DUCTWORK SHALL BE PREPARED FOR PAINTING (BY PAINTING CONTRACTOR).
 - ALL WORK SHALL COMPLY W/ THE 2015 VIRGINIA MECHANICAL AND PLUMBING CODES, NATIONAL ELECTRICAL CODE, AND LOCAL GOVERNING CODES.
 - IF FIELD CHARGED, REFRIGERANT SYSTEM SHALL BE VACUUMED TO 500 MICRONS PRIOR TO CHARGE AND LEAK TESTED. AIR FLOWS SHALL BE BALANCED TO DESIGN FLOWS SHOWN ON PLANS AND A "CERTIFIED" AABC OR NEBB TEST REPORT SUBMITTED (3 COPIES).
 - PROVIDE THE OWNER WITH 2 SETS OF THE MANUFACTURER'S LITERATURE ON ALL EQUIPMENT.
 - ALL BRANCH LINES SHALL HAVE LOCKING ADJUSTABLE DAMPERS PER SMACNA STANDARDS BRANCH FLEXIBLE AIR DUCTS TO DIFFUSERS SHALL HAVE A MINIMUM OF R-6 INSULATION AND NOT EXCEED 8 FEET IN LENGTH.
 - PROVIDE FIRE DAMPER WITH ACCESS AT ALL FIRE-RATED PENETRATIONS.
 - PROVIDE EXHAUST FANS W/ BACKDRAFT DAMPERS AND GRILLES WITH EXHAUST LOUVERS AS SHOWN. PROVIDE CONTROLS AS SPECIFIED.
 - OUTDOOR CONDENSERS SHALL BE MOUNTED ON PADS ON GROUND AS SPECIFIED & ELEVATED 6" ABOVE GROUND LEVEL. OUTDOOR CONDENSERS SHALL HAVE LOW AMBIENT CONTROLS FOR WINTER OPERATION (O F). SUCTION LINE SHALL HAVE OIL TRAP, BE INSULATED, AND SLOPED TO OUTDOOR CONDENSER.
 - FAN COILS SHALL HAVE 2" FILTERS (MERV 8), VIBRATION ISOLATION, VENTILATION AIR, AND FLEXIBLE COLLARS. INSULATED EVAPORATOR CONDENSATE DRAIN SHALL BE PIPED TO CONDENSATE PUMP AND PIPED INSULATED TO DRAIN OR EXTERIOR GRADE, IF REQUIRED.
 - NEW COMMERCIAL GRADE SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE PROVIDED AS SHOWN W/ OPPOSED BLADE DAMPER.
 - COORDINATE FINAL EXHAUST FAN, FAN COIL, AND DUCTWORK LOCATIONS W/ STRUCTURAL. PROVIDE UNIT MAINT-ENANCE CLEARANCES PER MANUFACTURER. FIELD ADJUST FINAL LOCATION AND PROVIDE OFFSETS AS REQUIRED.
 - PROVIDE MOTORIZED DAMPERS TO OPEN IN OCCUPIED, LOCKING OUTSIDE AIR DAMPERS AND ALL CONTROLS FOR OUTSIDE AIR FOR VENTILATION PER CODE TABLES SHOWN.
 - PROVIDE & INSTALL NEW 4" METAL DRYER VENT AND RUN TO EXTERIOR WALL WITH WALL VENT CAP PER CODE & MANUFACTURER.

Project Name: Berryville PW Maintenance	Unit Total Supply Air: 1300 CFM
Date: 11/30/2018	Unit Total Outdoor Air: 135 CFM
Unit Designation: AH#2 HVAC Furnace	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Room Number	Description	Area (ft²) (Aa)	Area Outdoor Air Rate per VMC Table 403.3 (Ra)	Area Outdoor Air (RaA)	Occupant Load Rate per VMC Table 403.3 (People/1000 ft²) (Rp)	Occupancy C x F1000 (Pz)	Occupant Outdoor Air Rate per VMC Table 403.3 (RpPz)	Occupant Outdoor Air (RpPz)	Breathing Zone Outdoor Air (Vbz = RpPz + RaA)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vpz)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vpz)
Office 1	Office	110	0.06	7	5	1	5	5	12	0.8	15	175	0	0.086
Office 2	Office	160	0.06	10	5	1	5	5	15	0.8	19	300	0	0.063
Lunch Room	Galley	200	0.06	12	5	1	5	5	17	0.8	22	350	0	0.063
Locker Room	Gym	120	0.3	36	0	0	0	0	36	0.8	45	175	0	0.257
Corridor	Corridor	100	0.06	6	0	0	0	0	6	0.8	8	100	0	0.080
Bunk Room	Bedroom	120	0.06	7	10	2	5	10	17	0.8	22	150	0	0.147
Bathroom	Transfer Air	80	0	0	0	0	0	0	0	0.8	0	50	0	0.000
Totals		890		78		5		25	103		131	1300	0	0.257

2009 OA Version 6.0 A1 Option - FFX - REG - 3/15/10	Occupant Diversity D = Ps / Σ all zones Pz	Ev 0.890
Do not utilize Occupant Diversity without specific approval from the Authority Having Jurisdiction	1.000	116
System Population (Ps)	Uncorrected O.A. You = D Σ all zones RpPz + Σ all zones RaA	Percentage of Outdoor Air
Diversity → 5	103	9%
		Method IMC Chart

NATURAL VENTILATION TABLES FOR BERRYVILLE PW GARAGE
Determined per 2012 International Mechanical Code Section 402

SYSTEM AHU-1	TOTAL EXTERIOR DOOR/WINDOW OPENINGS (FT²)	FLOOR AREA	4% FLOOR AREA	TOTAL OPENINGS (FT²) TO ADJACENT AREA W/ NATURAL VENTILATION	8% FLOOR AREA
Garage	141	1,030	41	NA	
		0	0	NA	

GRILLE/DIFFUSER/REGISTER SCHEDULE							
MARK	MANUFACTURER OR EQUAL	LOCATION	DIFFUSER* SIZE (IN)	BRANCH RUN-OUT AND NECK SIZE (IN)	OPPOSED BLADE DAMPER	MODEL	REMARKS
S-1	TUTTLE & BAILEY	AS SHOWN	14 X 14	8	YES	1300A	4-WAY PATTERN/ADJUSTABLE*
S-2	TUTTLE & BAILEY	AS SHOWN	14 X 14	6	YES	1300A	4-WAY PATTERN/ADJUSTABLE*
R-1	TUTTLE & BAILEY	AS SHOWN	14 X 14	12	NO	T70D	RETURN GRILLE
R-2	TUTTLE & BAILEY	AS SHOWN	14 X 14	8	NO	T70D	RETURN GRILLE
L-1	GREENHECK	WALL	12 X 12	8	MOD	EDD 601	WALL OUTSIDE AIR INTAKE

*ALL SUPPLY DIFFUSERS AND REGISTERS SHALL HAVE INSULATED BACKS.

AH#2 AND C-2



1.5 - 5 Ton Unitary Split System

Unit Overview		
C-2	System Type A/C with Furnace/Coil Outdoor Unit Model: 4TTR4 Outdoor Unit Nominal Capacity: 048	Indoor Unit Model: 4PXA+S9V2C Indoor Unit Nominal Capacity: 048

AHRI Data	
AHRI Reference Number: 201804528	
Airflow @ AHRI: 1300 cfm	
Capacity @ AHRI: 48500.00 Btuh	
EER @ AHRI: 12.5	
SEER @ AHRI: 15.00	



Unit Electrical		
C-2	Outdoor Unit: 4TTR4048L1 Power Supply: 200/230/1/60 MCA: 24.00 A Max Fuse Size: 40.00 A	Indoor Unit: 4PXA48BS3+S9V2C100U4VSA Power Supply: 115/1/60

Cooling Performance	
Cooling Airflow: 1600 cfm	Net Cooling Capacity: 48196.00 Btuh
Cooling EDB: 80.00 F	Net Sensible Capacity: 37112.00 Btuh
Cooling EWB: 67.00 F	Net Latent Capacity: 11084.00 Btuh
Cooling Outdoor Temp: 95.00 F	Cooling LDB: 58.20 F
	Cooling LWB: 57.10 F

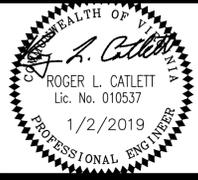
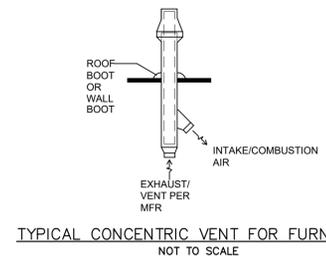
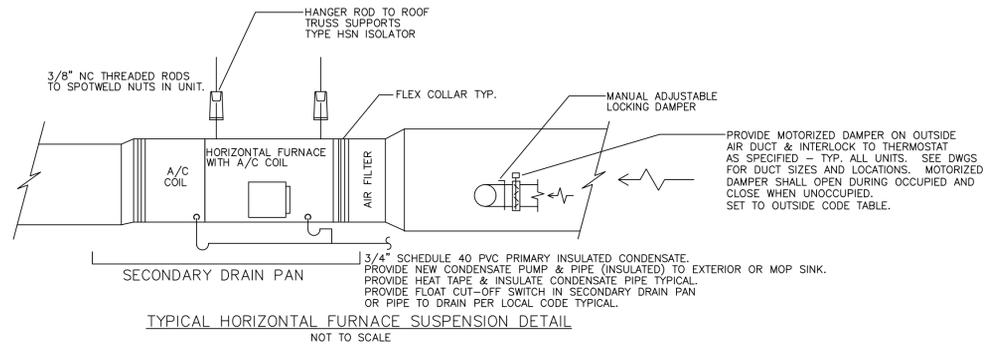
Heating Performance - Furnace	
Heating Airflow: 1600 cfm	Heating EDB: 70.00 F
Heating Input: 100000.00 Btuh	Heating LDB: 125.56 F
Heating Output: 96000.00 Btuh	Heating Temp. Rise: 55.56 F
	AFUE: 97.00 %

Product Specification AH#2

MODEL	S9V2C100D4VSAB (x)
TYPE	Downflow
RATINGS (1)	
1st Stage Input BTUH (ICS)	65,000
1st Stage Capacity BTUH	63,950
2nd Stage Input BTUH	100,000
2nd Stage Capacity BTUH (ICS) (1) (2)	95,833
1st Stage Temp. Rise (Min.-Max.)	25 - 55
2nd Stage Temp. Rise (Min.-Max.)	35 - 65
AFUE (%)	97.0
BLOWER DRIVE	DIRECT
Diameter - Width (In.)	11 X 10
No. Used	1
Speeds (No.)	Variable
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	3/4
RPM	Variable
Volts/Ph/Hz	120 / 1 / 60
FLA	8.0
COMBUSTION FAN - Type	Centrifugal
Drive - No. Speeds	Direct - VS
Motor HP - RPM	1/50 - 5000
Volts/Ph/Hz	33-110 / 3 / 60-180
FLA	1.0
FILTER - Furnished?	No
Type recommended	High Velocity
Hi Vel. (No.-Size-Thk.)	2 - 16x20 - 1 in.
VENT PIPE DIAMETER - Min (in.) (1) (2)	2 Round
HEAT EXCHANGER	
Type - Fired	409 Stainless Steel

MODEL	S9V2C100D4VSAB (x)
— Unfired	29-4C Stainless Steel
Gauge (Fired)	20
ORIFICES - Main	
Nat. Gas Qty. - Drill Size	5 - 45
LP Gas Qty. - Drill Size	5 - 56
GAS VALVE	Redundant - Two Stage
PILOT SAFETY DEVICE	
Type	120 V SNI Igniter
BURNERS - Type	Multiport Inshot
Number	5
POWER CONN. - V/Ph/Hz (2)	120 / 1 / 60
Ampacity (In Amps)	10.8
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (in.)	1/2
DIMENSIONS	
Uncrated (In.)	H x W x D 34 x 21 x 28-3/4
Crated (In.)	35-1/2 x 23 x 30-7/8
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	154/144

- (1) Meets Energy Star
- (2) Use high altitude pressure switch kits above 4000'. For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
- (3) Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.2.
- (4) Based on U.S. government standard tests.
- (5) Refer to the Vent Length Table in the Installer's Guide.
- (6) All S9V2-VS Furnace models have a vent outlet diameter that equals 2 in.
- (7) The above wiring specifications are in accordance with National Electrical Code; however, installers must comply with local codes.



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MARK	DATE	DESCRIPTION

PROJECT NO: 099
DATE: 1/2/2019

SHEET TITLE

MECHANICAL SCHEDULES & DETAILS

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

M102

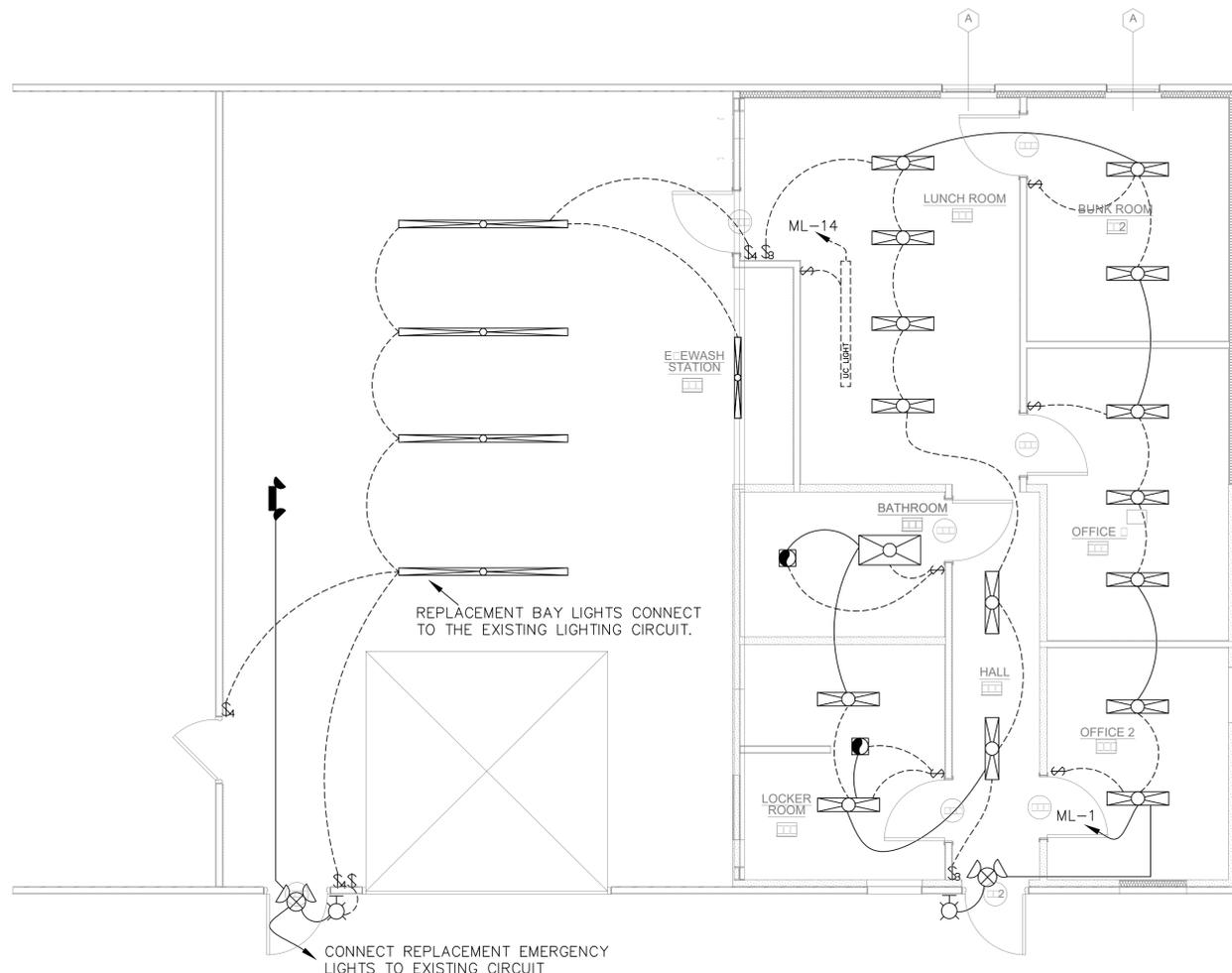
SHEET 1 OF 2



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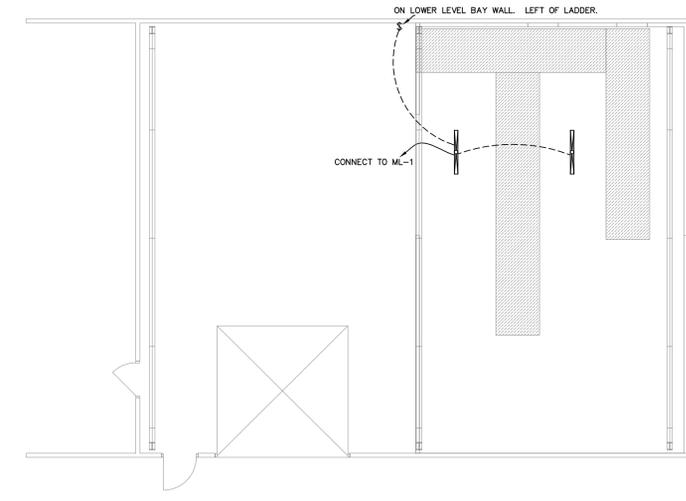
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1 LIGHTING PLAN
E-1 1/8" = 1'-0"

LIGHTING SYMBOL LIST	
SYMBOL	DESCRIPTION
§	WALL SWITCH, 3 DENOTES 3-WAY OPERATION, 4 DENOTES 4-WAY OPERATION, D DENOTES FIXTURE COMPATIBLE DIMMER SWITCH, FAN DENOTES FAN COMPATIBLE SWITCH. ADA MOUNTING HEIGHT.
- - -	DASHED LINE REPRESENTS SWITCHED WIRING BETWEEN FIXTURES IN A SWITCHED GROUP. CONTAINS SWITCHED CONDUCTORS AND MAY CONTAIN UN-SWITCHED CONDUCTORS FOR CIRCUIT CONTINUATION OR EMERGENCY LIGHTING.
—	UN-SWITCHED WIRING.

FIXTURE SCHEDULE		
SYMBOL	TYPE	DESCRIPTION/MODEL
⌚		BASIS OF DESIGN: H.E. WILLIAMS- EMER/LED-WHT-SDT-D
⌚		BASIS OF DESIGN: H.E. WILLIAMS- EXIT/EM/LED-R-WHT-SDT-D
⌚		BASIS OF DESIGN: H.E. WILLIAMS- EMER/DECO-DBR-D
⌚		BASIS OF DESIGN: H.E.WILLIAMS- 1X4 SHALLOW SURFACE MOUNT-PTS-14-L27/835-RA-UNV
⌚		BASIS OF DESIGN: H.E. WILLIAMS- 2X4 SHALLOW SURFACE MOUNT-PTS-24-L38/835-RA-UNV
⌚		BASIS OF DESIGN: H.E WILLIAMS- SUSPENDED INDIRECT ARCHITECTURAL -SIA1-SC-4-L20/835-AC/D48-DRV-UNV
⌚		BASIS OF DESIGN: H.E. WILLIAMS- SUSPENDED INDIRECT ARCHITECTURAL-SIA1-SC-8-L20/835-AC/D96-DRV-UNV
⌚		EXHAUST FAN



2 MEZZANINE LIGHTING PLAN
E-1 1/8" = 1'-0"

COMcheck Software Version 4.1.0.0
Interior Lighting Compliance Certificate

Project Information
Energy Code: 90.1 (2010) Standard
Project Title: BERRYVILLE PUBLIC WORKS
Project Type: New Construction

Construction Site: Town of Berryville, 201 Tom Whitacre Circle, Berryville, VA 22611
Owner/Agent: _____ Designer/Contractor: _____

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Office	1950	0.90	1755
Total Allowed Watts = 1755			

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Office				
LED 1: Other:	1	1	31	31
LED 2: Other:	1	15	21	315
LED 3: Other:	1	3	16	48
LED 4: Other:	1	4	16	64
Total Proposed Watts = 458				

Interior Lighting PASSES: Design 74% better than code

Interior Lighting Compliance Statement
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the inspection Q-requirements.

Heather Bowers Signature: *Heather Bowers* Date: 12/11/2018

MARK	DATE	DESCRIPTION

PROJECT NO: 099
DATE: 1/2/2019

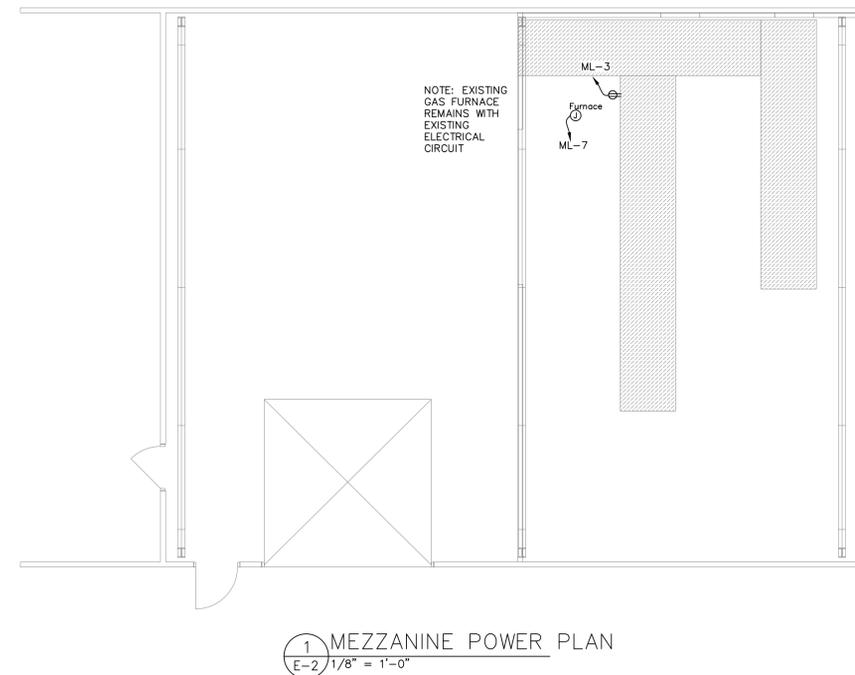
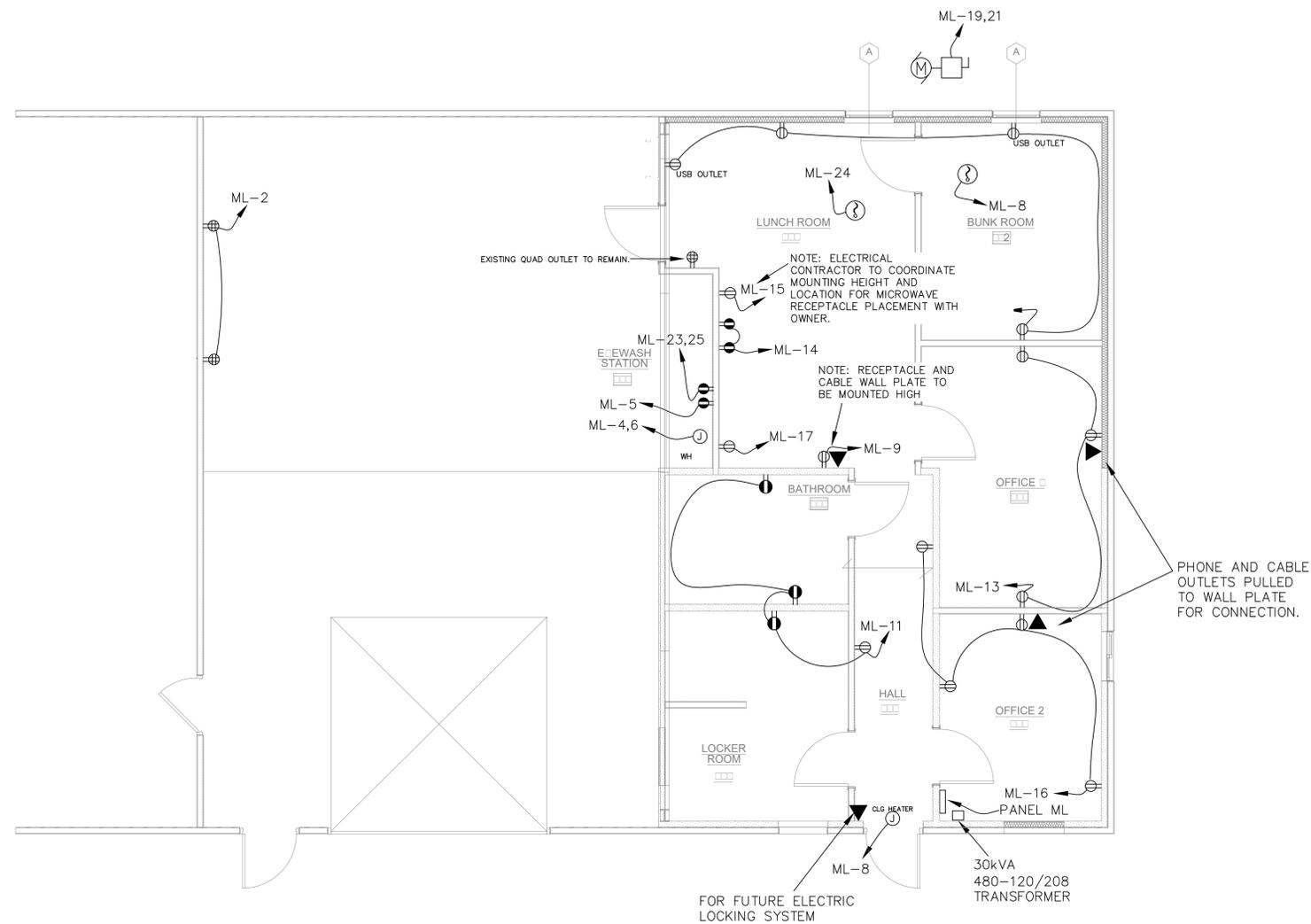
SHEET TITLE

LIGHTING PLAN

SCALE: 1:###

E-1

SHEET #1 OF 3



FIRE ALARM SYMBOL LIST	
SYMBOL	DESCRIPTION
Ⓢ	SMOKE/CO DETECTOR WITH 9V BATTERY BACKUP

2 POWER PLAN
E-2 1/8" = 1'-0"

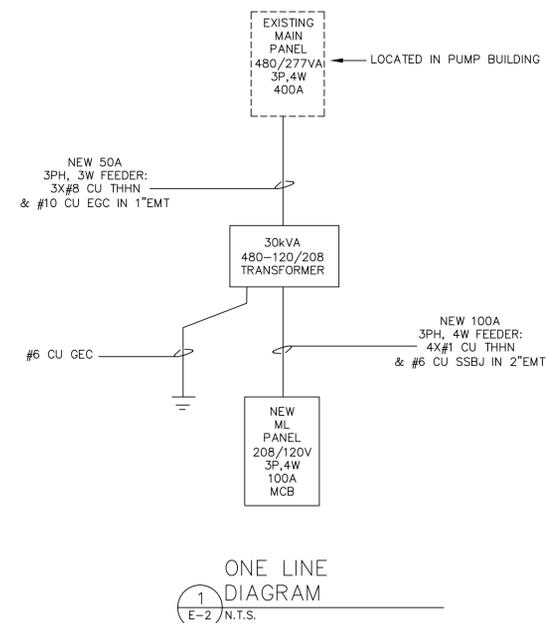
1 MEZZANINE POWER PLAN
E-2 1/8" = 1'-0"

ML	100	A	FRAME	3 PH	4 W	208Y/120	VOLT	MAIN CB SUB-PANEL						AIR: 10KA					
Qty	DESCRIPTION	CB	POLE	PH	NEU	EGG	COND	VA	PH	VA	COND	EGG	NEU	PH	POLE	CB	DESCRIPTION	Qty	
1	LIGHTS	20	1	12	12	12	MC	1062	A	720	MC	12	12	12	1	20	BAY QUAD REC	2	
3	MEZZ REC	15	1	14	14	14	MC	180	B	2250	MC	10	10	2	30	HWH	4		
5	WASHING MACHINE	20	1	12	12	12	MC	1300	C	2250	MC	10	10	10				6	
7	FURNACE	15	1	14	14	14	MC	1296	A	120	MC	14	14	14	1	15	RM 102 CO/SMOKE	8	
9	HIGH MOUNT REC	20	1	12	12	12	MC	180	B								PROVISION	10	
11	RESTROOM REC	20	1	12	12	12	MC	900	C	540	MC	12	12	12	1	20	BUNK REC	12	
13	OFFICE REC	20	1	12	12	12	MC	540	A	360	MC	12	12	12	1	20	COUNTER TOP GFCI	14	
15	MICROWAVE	20	1	12	12	12	MC	1250	B	540	MC	12	12	12	1	20	STORAGE/HALL REC	16	
17	REFRIGERATOR	20	1	12	12	12	MC	840	C								PROVISION	18	
19	OUTDOOR UNIT	40	2	8	8	10	MC	2880	A	1500	MC	12	12	2	20	GLG HEATER	20		
21	"			8				2880	B	1500			12				"	22	
23	DRYER	30	2	10	10	10	MC	2500	C	120	MC	14	14	14	1	15	RM 101 CO/ SMOKE	24	
25	"			10				2500	A								PROVISION	26	
27	PROVISION								B								PROVISION	28	
29	PROVISION								C								PROVISION	30	
31	PROVISION								A								PROVISION	32	
33	PROVISION								B								PROVISION	34	
35	PROVISION								C								PROVISION	36	
37	PROVISION								A								PROVISION	38	
39	PROVISION								B								PROVISION	40	
41	PROVISION								C								PROVISION	42	
								CONNECTED VA	10,978	A	91	CONNECTED AMPS	WIRES BASED ON 75° C RATED CU						
								CONNECTED VA	8,780	B	73	CONNECTED AMPS	WITH 75° C RATED TERMINALS						
								CONNECTED VA	8,450	C	70	CONNECTED AMPS							
								TOTAL CONNECTED VA	28,208		78	AVERAGE CONNECTED AMPS							
								DEMAND VA	27,517		76	NEC DEMAND AMPS							

\\MYCLOUD\EX2\ULTRA\Public\DATA\Projects\cd118\1E18101-Berryville Public Works\ELEC\COPY of PANEL ML (edited).xlsx\3ph42 1/2/2019 9:47

POWER SYMBOL LIST	
SYMBOL	DESCRIPTION
Ⓢ	DUPLEX RECEPTACLE
Ⓢ	GFCI RECEPTACLE. WP DENOTES WEATHERPROOF COVER. COORDINATE MOUNTING HEIGHT AT COUNTERS AND CASEWORK
Ⓢ	QUAD RECEPTACLE
Ⓢ	CEILING MOUNTED RECEPTACLE
Ⓢ	JUNCTION BOX EQUIPMENT CONNECTION
Ⓢ	CEILING MOUNTED JUNCTION BOX
Ⓢ	JUNCTION BOX WITH NFSS DISCONNECT FOR EQUIPMENT CONNECTION.
Ⓢ	NFSS DISCONNECT SWITCH AND MOTOR CONNECTION.
Ⓢ	NFSS DISCONNECT AND WATER HEATER CONNECTION.
Ⓢ	MOTOR CONNECTION (EXHAUST FAN, DISPOSER, ETC.)

LOW VOLTAGE SYMBOL LIST	
SYMBOL	DESCRIPTION
Ⓢ	LOW VOLTAGE OUTLET. SINGLE GANG BOX WITH 3/4" ENT STUB (WITH PULL STRING) TO ACCESSIBLE CEILING SPACE.



1 ONE LINE DIAGRAM
E-2 N.T.S.

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PROJECT NO: 099
DATE: 1/2/2019

POWER PLAN

SCALE: 1:###

E-2

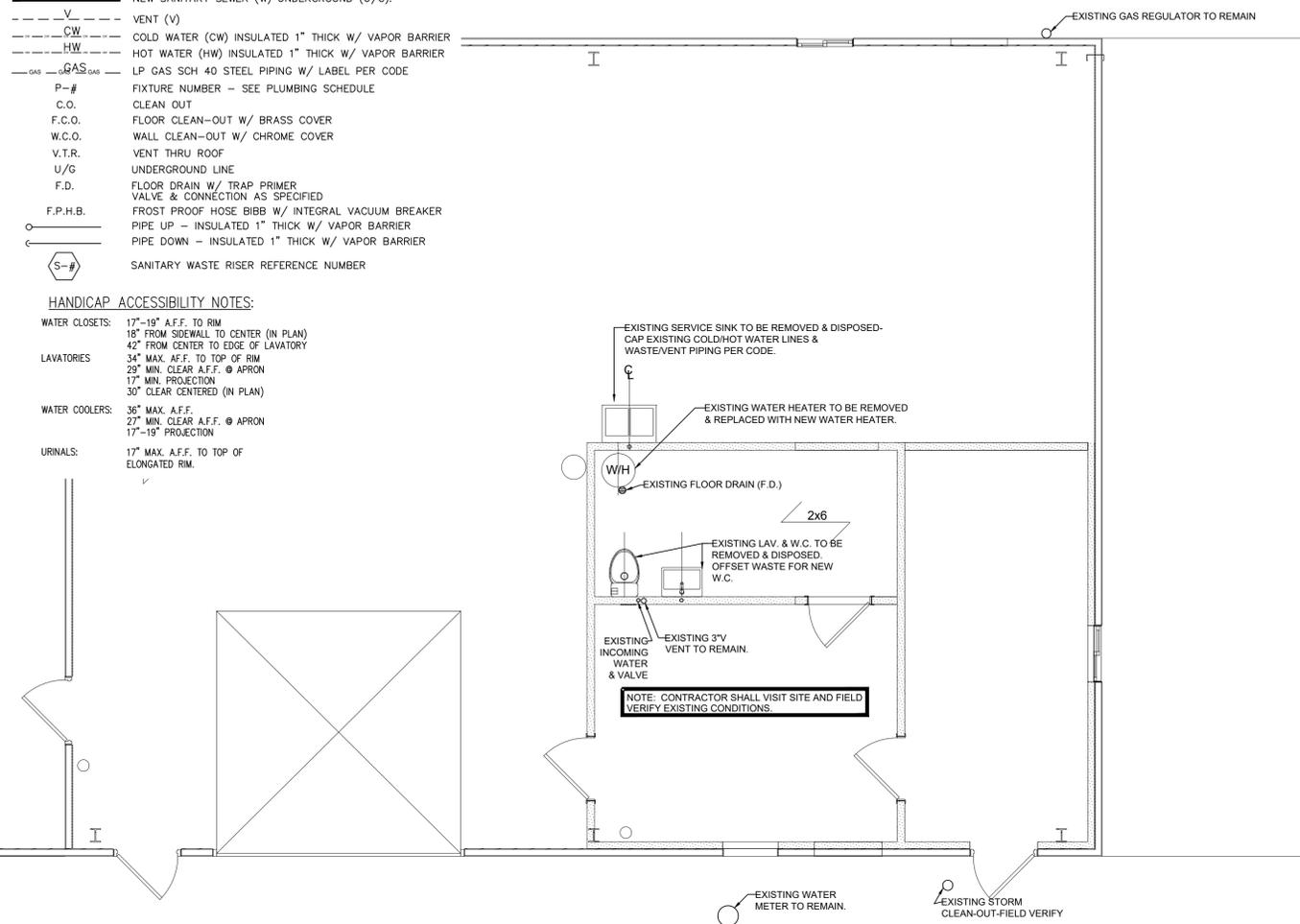
SHEET #2 OF 3

PLUMBING LEGEND

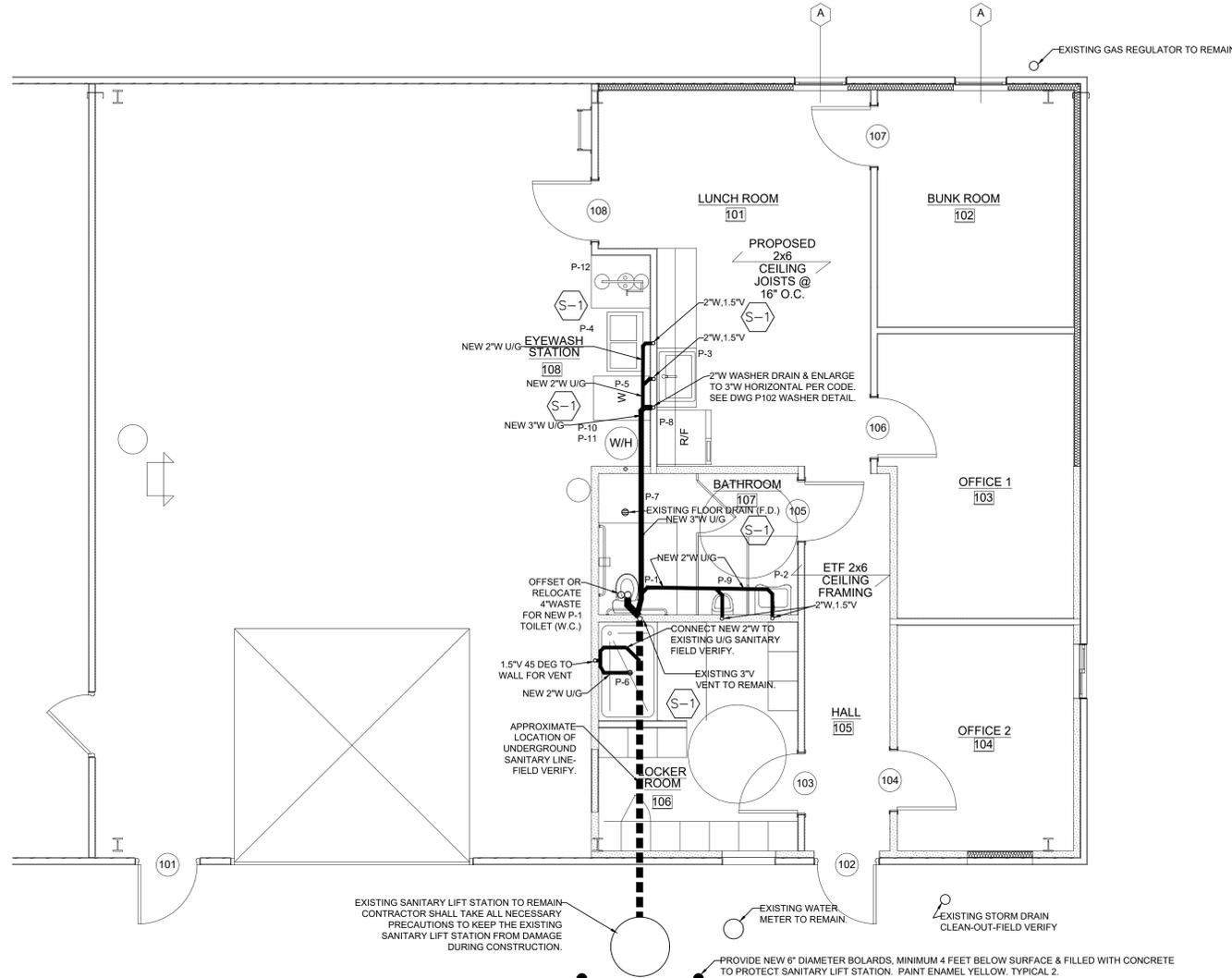
- EXISTING SANITARY SEWER (W) UNDERGROUND (U/G).
- W NEW SANITARY SEWER (W) UNDERGROUND (U/G).
- VENT (V).
- CW COLD WATER (CW) INSULATED 1" THICK W/ VAPOR BARRIER
- HW HOT WATER (HW) INSULATED 1" THICK W/ VAPOR BARRIER
- GAS LP GAS SCH 40 STEEL PIPING W/ LABEL PER CODE
- P-# FIXTURE NUMBER - SEE PLUMBING SCHEDULE
- C.O. CLEAN OUT
- F.C.O. FLOOR CLEAN-OUT W/ BRASS COVER
- W.C.O. WALL CLEAN-OUT W/ CHROME COVER
- V.T.R. VENT THRU ROOF
- U/G UNDERGROUND LINE
- F.D. FLOOR DRAIN W/ TRAP PRIMER VALVE & CONNECTION AS SPECIFIED
- F.P.H.B. FROST PROOF HOSE BIBB W/ INTEGRAL VACUUM BREAKER
- PIPE UP - INSULATED 1" THICK W/ VAPOR BARRIER
- PIPE DOWN - INSULATED 1" THICK W/ VAPOR BARRIER
- S-# SANITARY WASTE RISER REFERENCE NUMBER

HANDICAP ACCESSIBILITY NOTES:

- WATER CLOSETS: 17"-19" A.F.F. TO RIM
18" FROM SIDEWALL TO CENTER (IN PLAN)
42" FROM CENTER TO EDGE OF LAVATORY
- LAVATORIES: 34" MAX. A.F.F. TO TOP OF RIM
29" MIN. CLEAR A.F.F. @ APRON
17" MIN. PROJECTION
30" CLEAR CENTERED (IN PLAN)
- WATER COOLERS: 36" MAX. A.F.F.
27" MIN. CLEAR A.F.F. @ APRON
17"-19" PROJECTION
- URINALS: 17" MAX. A.F.F. TO TOP OF ELONGATED RIM.



1 PLUMBING DEMOLITION PLAN
SCALE : 1/4" = 1'-0"



2 PLUMBING SANITARY WASTE PLAN
SCALE : 1/4" = 1'-0"

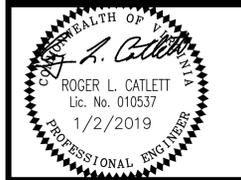
PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MINIMUM CONNECTIONS INCHES				REMARKS	MANUFACTURER OR APPROVED EQUAL
		COLD	HOT	WASTE	VENT		
P-1	WATER CLOSET - HANDICAP	1/2	--	3	1 1/2	ELONGATED BOWL	KOHLER K-3979-TR-0, CLASS FIVE (1.6 GPF), OPEN FRONT SEAT, AND CHROME HARDWARE. MOUNT PER A.D.A. AND CODE.
P-2	WALL HUNG LAVATORY-HANDICAP	1/2	1/2	1 1/2	1 1/4	A.D.A. COMPLIANT W/ TEMPERING VALVE	KOHLER K-2035-8-0 WALL HUNG W/ SHROUD, T&S BRASS B-Z-867-04FC FAUCET, CHROME, GRID DRAIN, INSULATED DRAIN/HOT/COLD WATER, WALL CARRIER, & TEMPERING VALVE. A.D.A. COMPLIANT.
P-3	BREAK ROOM SINK	1/2	1/2	2	1 1/2	W/ TEMPERING VALVE	ELKAY MODEL DLK222212, SINGLE BOWL W/ KOHLER K-6271-4/K-7266 FAUCET & LEVER HANDLES, GOOSENECK SWING SPOUT, CHROME STRAINER AND COLD/HOT WATER W/ SHUTOFF VALVES AND DRAIN/VENT.
P-4	NEW DOUBLE BOWL SERVICE SINK	1/2	1/2	2	1 1/2		MUSTEE MODEL 22C UTIL/TWIN LAUNDRY/UTILITY DOUBLE BOWL, TUB WITH 6" SWING SPOUT FAUCET WITH AERATOR AND HOSE END, COLD/HOT WATER, CHROME SHUTOFF VALVES, WASTE & VENT PIPING
P-5	WASHER CONNECTIONS	3/4	3/4	2	1 1/4	W/W.H.A./ELEC. RECEPT. & LINT FILTER	GUY GRAY MODEL BBED-200TS W/240V DRYER OUTLET, 115 RECEPTACLE, WATER HAMMER ARRESTORS (W.H.A.) PDI TYPE "A", HOT/COLD WATER, DRAIN FILTROL 160 LINT FILTER OR EQUAL AND DRAIN/VENT PIPING.
P-6	HANDICAP SHOWER/ENCLOSURE	1/2	1/2	2	1 1/2	HANDICAP	AKER OPS-6036-RS ROLL-IN SHOWER, A.D.A. COMPLIANT, WHITE, TRENCH DRAIN W/ S.S. GRATE, SINGLE-PIECE GELCOAT/FIBERGLASS, CHROME SOAP DISH, FULL PLYWOOD BACKING, FLANGE TRIM KIT FTK125, SYMONS 9603-PLR-X-1.5 PKG. 1.5 GPM HAND SHOWER/30" GLIDE BAR, S.S. BARS, SEAT, 60" WHITE CURTAIN/ROD.
P-7	FLOOR DRAIN W/ TRAP SEALER	--	--	2	1 1/2		EXISTING FLOOR DRAIN - INSTALL SURE SEAL OR EQUAL MODEL SS2009V IN-LINE FLOOR DRAIN TRAP SEALER.
P-8	REFRIGERATOR ICE BOX/VALVE	1/2	--	--	--		QATEY ICE MAKER RECESSED WALL BOX 38952 W/ VALVE AND COLD WATER PIPING AND FITTINGS.
P-9	URINAL (ADA)	3/4	--	2	1-1/2		KOHLER K-5016-ET, ADA HANDICAP WALL HUNG URINAL WITH WALL CARRIER, CHROME FLUSH VALVE K-13521, 1.0 GPF, 3" SPUD, A.D.A. HEIGHT MOUNTING.
P-10	50 GALLON ELECTRIC WATER HEATER	3/4	3/4	--	--	W/ P-11 EXPANSION TANK	A.O. SMITH ENT-50, 50 GALLON ELECTRIC WATER HEATER, DUAL ELEMENTS 4500/4500W, 240/1/60, T&P RELIEF VENT W/ PIPE, DRAIN PAN, & AMTROL ST-5-C THERMAL EXPANSION TANK.
P-11	HOT WATER EXPANSION TANK	1/2	--	--	--	INSTALL ON COLD WATER LINE	AMTROL ST-5 EXPANSION TANK, 6.4 GALLON, W/ DRAIN COCK, SHUTOFF VALVES, AND ALL PIPING AND FITTINGS.
P-12	COMBINATION SHOWER/EYEWASH					W/ TEMPERING VALVE	CONDOR YELLOW COMBINATION SHOWER/EYEWASH MODEL 49EV45 W/ STAINLESS STEEL PULL ROD, THERMOSTATIC TEMPERING VALVE PER MANUFACTURER AND CODE.

PLUMBING NOTES:

- ALL FIXTURES SHALL BE WHITE UNLESS NOTED OTHERWISE. PROVIDE SOLENOID SHUTOFF VALVES AS SHOWN AND COORDINATE WITH ELECTRICAL SUBCONTRACTOR ON CIRCUITS & WALL SWITCH.
- ALL WORK SHALL COMPLY W/ THE 2015 VIRGINIA (INTERNATIONAL) MECHANICAL AND PLUMBING CODES, NATIONAL ELECTRICAL CODE, AND LOCAL GOVERNING CODES AND PERMITS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS. PROVIDE LP GAS PIPING PER INTERNATIONAL FUEL GAS CODE OF VIRGINIA.
- ALL INTERIOR HOT AND COLD WATER LINES SHALL BE TYPE L COPPER AND INSULATED. HOT WATER LINES AND EXPOSED DRAINS SHALL BE INSULATED W/ WHITE PLASTIC JACKET INSULATION TO PREVENT TOUCH BY HANDICAP (TRUEBRO LAV GUARD OR EQUAL). PIPE INSULATION SHALL BE 1" THICK AND NON-COMBUSTIBLE ABOVE CEILINGS AND IN WALLS. ALL INTERIOR ABOVE GRADE ROOF DRAINAGE AND WASTE PIPING SHALL BE CAST IRON OR INSULATED PVC TYPICAL.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS, FIXTURES, & VALVES TO MAKE A COMPLETE AND OPERATING SYSTEM. ALL PIPING SHALL BE RUN INSIDE WALLS, ABOVE CEILING, OR EXPOSED AT MAXIMUM HEIGHT UNLESS SHOWN OTHERWISE. ALL PIPE PENETRATIONS OF FIRE RATED CEILINGS AND WALLS SHALL HAVE FIRE SEALANT/CAULKING PER MANUFACTURER AND CODE.
- CONTRACTOR SHALL COORDINATE CONNECTION OF LP GAS, WATER AND SEWER SYSTEMS W/ GENERAL CONTRACTOR, OWNER, AND ARCHITECT. CONTRACTOR SHALL COORDINATE COORDINATE SHUTDOWN OF UTILITY SYSTEMS W/ LOCAL UTILITY COMPANY AND OWNER PRIOR TO MAKING FINAL CONNECTIONS TO LP GAS, WATER AND SEWER MAINS.

- CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES TO INSTALL ALL FIXTURES. INSTALL HANDICAP FIXTURES IN COMPLIANCE WITH ADA.
- PLUMBER/INSTALLER SHALL ENSURE THAT PIPES ARE ADEQUATELY INSULATED TO PREVENT FREEZING. PLUMBER SHALL USE FIBERGLASS INSULATION WITH VAPOR BARRIER.
- PLUMBING CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION OF LP GAS, WATER, SEWER, AND VENT PIPING W/ G.C., STRUCTURAL, MECHANICAL, AND ELECTRICAL CONTRACTORS.
- PROVIDE LP GAS PIPING AS SHOWN AND PER CODE. COORDINATE WITH OWNER AND GAS SUPPLIER ON EXISTING OR NEW LP GAS TANK, UNDERGROUND LINE AND REGULATOR.



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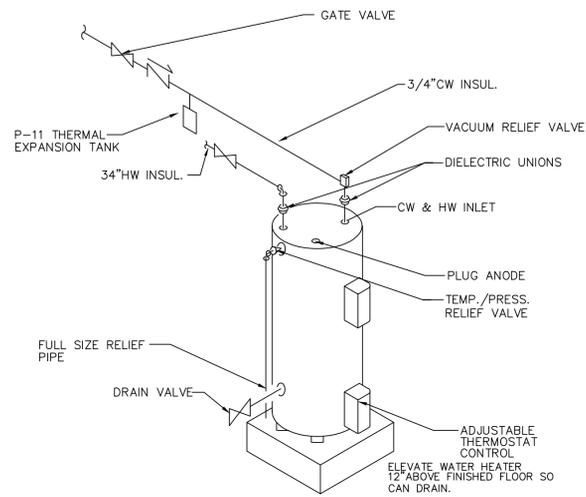
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MARK	DATE	DESCRIPTION

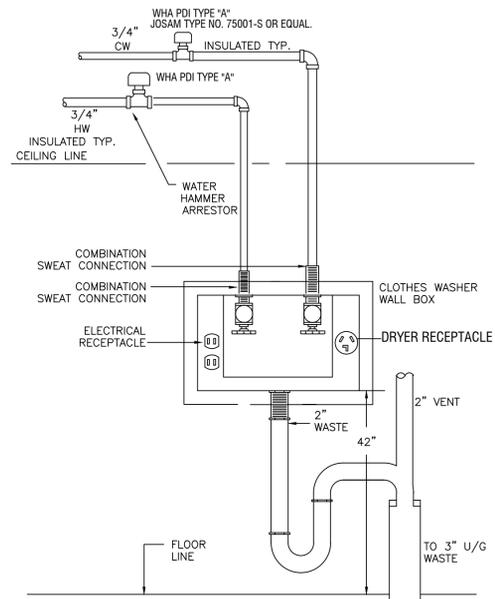
PROJECT NO: 099
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SHEET TITLE
PLUMBING PLAN

SCALE: 1/4" = 1'-0"
P101
SHEET 1 OF 3



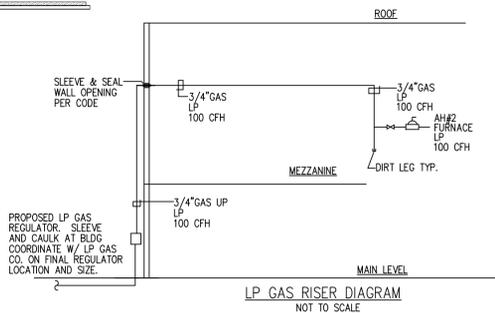
P-10 WATER HEATER PIPING DETAIL
NOT TO SCALE



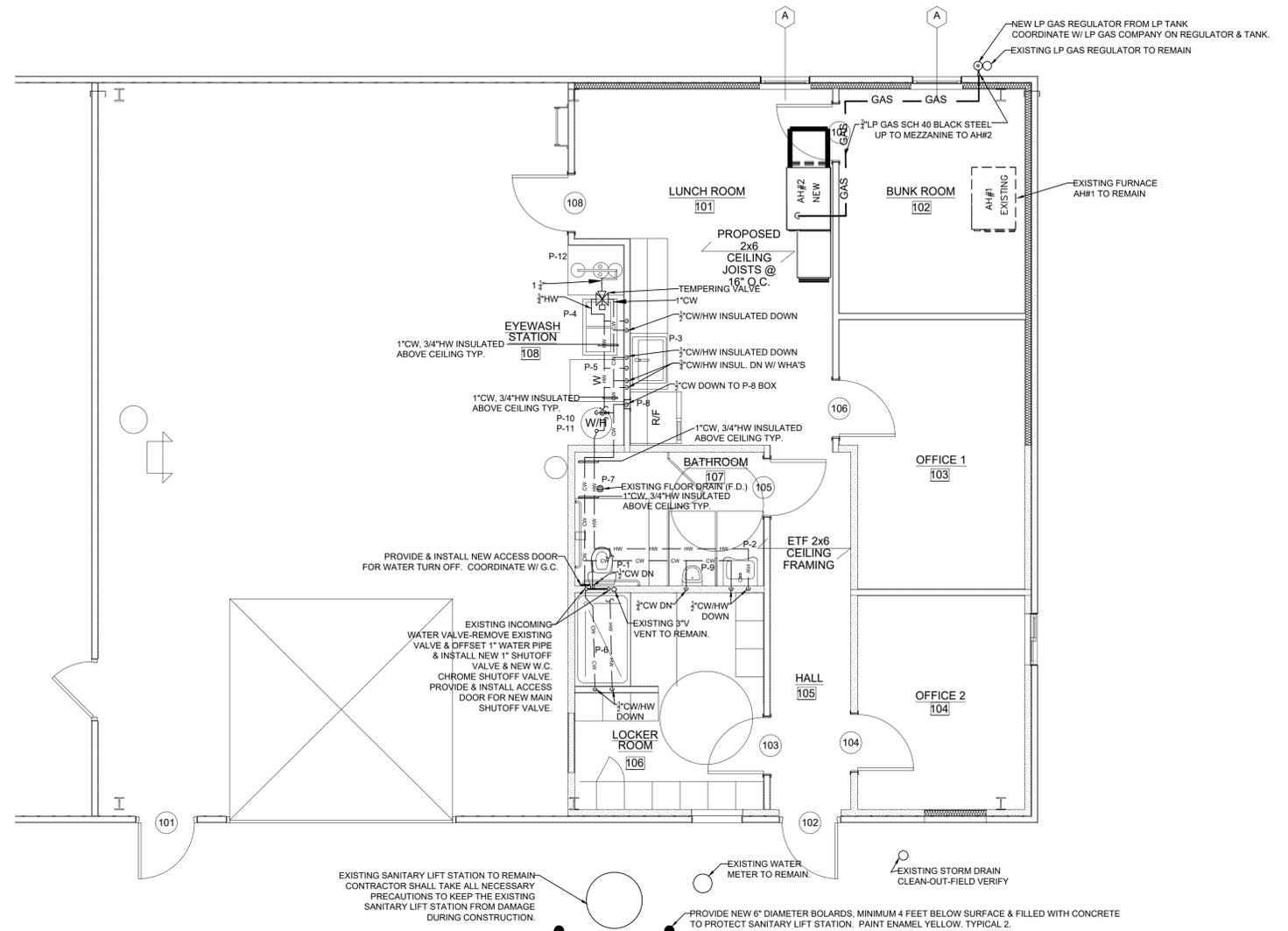
P-5 UTILITY WALL BOX FOR CLOTHES WASHER
N.T.S.

MARK	UNIT DESCRIPTION	MFR OR EQUAL	MODEL	INPUT BTUH
AH#2	LP GAS FURNACE	TRANE	S9V2C100U4VSA	100,000
SUMMARY TOTALS FOR LP GAS LOADS				100,000
				100 MBH

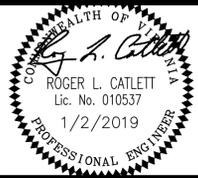
LP GAS PIPE SIZING BASED ON THE 2012 INTERNATIONAL FUEL GAS CODE, TABLE 402.4(2B), 11.0 IN. PRESSURE W/ 0.5 IN. PRESSURE DROP.
LP GAS = 1.50 SPECIFIC GRAVITY, SCHEDULE 40 PIPE AND 100 FEET.
(1000 BTUH = 1 MBH)



LP GAS RISER DIAGRAM
NOT TO SCALE



1 PLUMBING WATER & LP GAS PLAN
SCALE : 1/4" = 1'-0"



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MARK	DATE	DESCRIPTION

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SHEET TITLE
PLUMBING
WATER & GAS
PLAN

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

P102
SHEET 2 OF 3

