Mount Desert Fire Department
Station 1 Renovation

CONSTRUCTION SET
6/6/2022

DESIGN GROUP COLLABORATIVE

ARCHITECTURE DESIGN + PLANNING

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Mount Desert Fire Department
Station 1 Renovation
21 SEA STREET, NORTHEAST HARBOR, ME 04662
CONSTRUCTION SET
6/6/2022

ABREVIATIONS

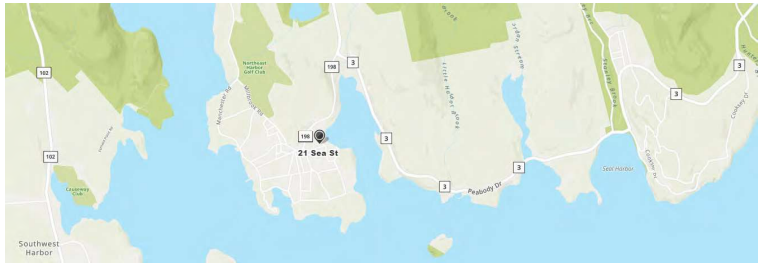
@	AT
Ø	DIAMETER
(E)	EXISTING
±	PLUS/MINUS
AB	ANCHOR BOLT
ABR	ABUSE RESISTENT
AC, A/C	AIR CONDITIONING
ACCU	AIR CONDITIONING CONDENSER NIT
ACPLAS	ACOUSTICAL PLASTER
ACT	ACOUSTIC CEILING TILE
ADD ALT	ADDITIVE ALTERNATE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
APPROX	APPROXIMATE
BCX	BOTTOM CHORD EXTENSION
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLP	BORROWED LIGHT PANEL
BO	BOTTOM OF
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BS	BOTH SIDES
BSE BS	BRICK SHELF ELEVATION
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CEM BD	CEMENTITOUSBACKER BOARD
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CO	CONTRACTING OFFICER
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONSTRUCTION
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
CWP	CLEAN WALL PANEL
DBL	DOUBLE
DIA	DIAMTER
DIM	DIMENSION
DF	DRINKING FOUNTAIN
DNA	DOES NOT APPLY
DR	DISPLAY RAIL
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EF	EXHAUST FAN; EACH FACE
EL	ELEVATION
EJ	EXPANSION JOINT
ELEV	ELEVATOR; ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPP	EPOXY PAINT PRESSURE TREATED PLYWOOD
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
ETR	EXISTING TO REMAIN
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXIST	EXISTING
EXSTG	EXITING
EXT	EXTERIOR
FB	FLAT BAR
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FF	FINISHED FLOOR; FAR FACE
FFE	FINISHED FLOOR ELEVATION
FIN GR	FINISHED GRADE
FO	FRAMED OPENING
FOS	FACE OF STUD
FRP	FIBERGASS REINFORCED PLASTIC
FR	FIRE RATING
FRMG	FRAMING
FS	FAR SIDE
FT	FEET
FTG	FOOTING
G	GRANITE
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDT	GYPSUM DROP-IN TILE
GV	GRAVITY VENT
GWB	GYPSUM WALL BOARD
HC	HANDICAPPER
HDR	HEADER
HD WD	HARDWOOD
HDWE	HARDWARE
HORIZ	HORIZONTAL
HM	HOLLOW METAL
HR	HOUR
HRU	HEAT RCOVERY UNIT
HT	HEIGHT
H&V	HEATING AND VENTILATING
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER HEATER
IF	INSIDE FACE
IJ	ISOLATION JOINT
IN	INCHES
INP	IMPACT RESISTANT
INS	INSULATION, INSULATED
INT	INTERIOR
INV	INVERT
JAN	JANITOR, JANITOR CLOSET
JST	JOIST
JT	JOINT
L	LENGTH
LAB	LABRATORY
LAV	LAVATORY
LOC	LOCATION
LPT	LATEXPAINT
MACH	MACHINE
MAS	MASONRY
MAX	MAXIMUM
MB	MARKER BOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MACHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE-RESITENT
MT'L	MATERIAL
MUA	MAKE-UP AIR
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD
PA	PUBLIC ADDRESS
PAF	POWDER-ACTUATED FASTENER
PDU	POOL DEHUMIDIFICATION UNIT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAR SQUARE FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PP	POWER PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PTD
PVC	POLYVINYL CHLORIDE
R	RISER; RADIUS
RB	RESILIENT BASE
RE	REFER
REF	REFRIGERATOR
RD	ROOF DRAIN
REINF	REINFORCED
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RR	RUB RAIL
RS	RESILIENT FLOORING
RTU	ROOFTOP UNIT
S	SOUTH
SACT	SUSPENDED ACCOUSTIC CEILING TILE
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SCETION
SF	SQUARE FOOT; SUPPLY FAN
SHT	SHEET
SM	SIMILAR
SK	SHEAR KEY
SP	SPECIAL
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T	TREAD
TB	TRACKBOARD
T&B	TOP AND BOTTOM
TBM	TEMPORARY BENCHMARK
TCE	TOP CHORD EXTENSION
THK	THINK
THRU	THROUGH
TJ	TIE JOIST
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOP	TOP OF PIER
TOS	TOP OF STEEL; TOP OF SLAB
TOW	TOP OF WALL
TP	TOILET PAPER (DISPENSOR)
TS	TUBE STEEL
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS OTHERWISE
V	VENT PIPE; VERTICAL
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VP	VISION PANEL
VTR	VENT THROUGH ROOF
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
WP	WORKING POINT
WS	WEB STIFFENER
WWF	WELDED WIRE FABRIC

SYMBOLS

- BUILDING SECTION (A / A1)
- WALL SECTION (A / A1)
- INTERIOR ELEVATION (A / A1)
- EXTERIOR ELEVATION (A / A1)
- WINDOW TAG (W1)
- DOOR TAG (D1)
- COLUMN BUBBLE AND CENTER LINE (1)
- LEVEL LINE (FIRST FLOOR, 0'-0")
- BACKER ROD AND SEALANT (S)
- DETAIL (A / A1) — KEY NUMBER / SHEET NUMBER
- WALL TAG

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH WORK. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.
3. RESTORE ALL SITE AREAS DISTURBED BY CONTRACTORS OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.) UNLESS NOTED OTHERWISE ON PLANS.
4. ALL DIMENSIONS ARE MEASURED TO FACE OF EXTERIOR CONCRETE AND TO ROUGH FACE OF STUD WALL , UNLESS NOTED OTHERWISE
5. DOOR JAMBS SHALL BE LOCATED 6" FROM CORNER UNLESS NOTED OTHERWISE. MAINTAIN 18" CLEAR FROM STRIKE SIDE OF DOOR TO ANY OBSTRUCTION ON PULL SIDE.
6. HOLD ALL GWB 1/2" FROM FINISH FLOOR FOR CAPILLARY BREAK
7. PROVIDE BLOCKING FOR ALL CASEWORK, TOILET ACCESSORIES, WALL-MOUNTED DOOR STOPS, AND WALL-MOUNTED EQUIPMENT.
8. ALL UL RATED ASSEMBLIES TO BE CONSTRUCTED ACCORDING TO UL SPECIFICATIONS. - FIRE RESISTANCE DIRECTORY, 2009.
9. PROVIDE FIRESTOPPING AT ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS IN FIRE-RATED PARTITIONS AND FLOOR/CEILING ASSEMBLIES ACCORDING TO UL LISTING.
10. COORDINATE ALL MECHANICAL, PLUMBING AND ELECTRICAL FLOOR AND WALL PENETRATIONS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND DRAWINGS. UNLESS NOTED OTHERWISE, ELECTRICAL CONDUIT AND WIRING, PLUMBING AND MECHANICAL PIPING SHALL BE CONCEALED AND WALL FRAMING SHALL BE OF ADEQUATE DIMENSION TO ACCOMPLISH THIS WITHOUT CHANGES IN WALL PLANE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COMPLY IN RESPECT WITH THE CURRENT LOCAL AND STATE BUILDING CODES.
12. PROVIDE TEMPORARY ROOF AND EXTERIOR WALL ENCLOSURES AS REQUIRED TO PREVENT LEAKS AND PROTECT EXISTING CONSTRUCTION AND WORK IN PLACE.
13. ALL CONSTRUCTION PHASING AND OPERATIONS SHALL BE COORDINATED WITH THE OWNER. CONTRACTOR SHALL PROVIDE BARRICADES AND FENCING AS REQUIRED. AVOID ANY IMPACT TO THE AREAS DESIGNATED FOR OWNER USE AND OCCUPANCY DURING CONSTRUCTION.
14. SMOKING IS PROHIBITED ON PROJECT PROPERTY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENFORCE THIS POLICY.
15. GC TO PROVIDE SELF-CONTAINED PORTABLE TOILET UNITS FOR USE BY THEIR WORK FORCE.
16. WHERE THE TERMS "APPROVED EQUAL", "EQUAL TO" OR OTHER GENERAL QUALIFYING TERMS ARE USED, IT SHALL BE UNDERSTOOD THAT THE REFERENCE IS MADE TO THE RULING AND JUDGEMENT OF THE ARCHITECT.



LOCUS MAP 21 SEA STREET, NORTHEAST HARBOR, ME 04662

DRAWING STATUS LIST

ISSUE	DATE	07/16/21	10/07/21	11/15/21	12/15/21	06/06/22		
DRAWINGS	DESCRIPTION	SD	DD	90% CD	BID DOCUMENTS	CD SET		
SHEET No.	SHEET TITLE							
A000	COVER SHEET	•	•	•	•	•		
A001	GENERAL NOTES	•	•	•	•	•		
A002	CODE PLANS	•	•	•	•	•		
C-1	SITE & GRADING PLAN	•	•	•	•	•		
C-2	SITE DETAILS		•	•	•	•		
C-3	SITE DETAILS		•	•	•	•		
A101	EXISTING PLANS	•	•	•	•	•		
A102	DEMO PLANS	•	•	•	•	•		
A103	FLOOR PLANS	•	•	•	•	•		
A104	REFLECTED CEILING PLANS	•	•	•	•	•		
A105	ROOF & ATTIC PLANS	•	•	•	•	•		
A201	EXTERIOR ELEVATIONS	•	•	•	•	•		
A202	EXTERIOR ELEVATIONS	•	•	•	•	•		
A203	INTERIOR ELEVATIONS		•	•	•	•		
A204	INTERIOR ELEVATIONS	•	•	•	•	•		
A301	BUILDING SECTIONS	•	•	•	•	•		
A302	BUILDING SECTIONS	•	•	•	•	•		
A401	ENLARGED PLANS STAIRS & ELEVATOR		•	•	•	•		
A500	WALL SECTIONS	•	•	•	•	•		
A501	WALL SECTIONS			•	•	•		
A600	PLAN DETAILS			•	•	•		
A601	SECTION DETAILS			•	•	•		
A602	SECTION DETAILS				•	•		
A700	DOOR SCHEDULES & DETAILS	•	•	•	•	•		
A701	WINDOW SCHEDULE & DETAILS	•	•	•	•	•		
A702	FURNISHING PLAN & FINISH SCHEDULE		•	•	•	•		
S-0.1	STRUCTURAL NOTES		•	•	•	•		
S-0.2	STRUCTURAL LOAD MAPS		•	•	•	•		
S-1	FOUNDATION PLAN		•	•	•	•		
S-1.1	SLAB DEMO & JOINTING PLAN				•	•		
S-2	SECOND FLOOR FRAMING		•	•	•	•		
S-3	ROOF FRAMING		•	•	•	•		
S-4	STRUCTURAL DETAILS				•	•		
S-5	STRUCTURAL DETAILS				•	•		
M001	MECHANICAL DEMOLITION PLAN			•	•	•		
M101	PLUMBING PLANS & SCHEDULES		•	•	•	•		
M102	PLUMBING PLANS		•	•	•	•		
M103	PLUMBING PLANS			•	•	•		
M201	HVAC PLANS & DETAILS		•	•	•	•		
M202	HVAC PLANS		•	•	•	•		
M301	MECHANICAL SCHEDULE AND LEGENDS			•	•	•		
E000	ELECTRICAL NOTES		•	•	•	•		
E101	FIRST FLOOR POWER PLAN		•	•	•	•		
E102	SECOND FLOOR POWER PLAN		•	•	•	•		
E103	ATTIC POWER PLAN		•	•	•	•		
E104	EXISTING PANEL SCHEDULES		•	•	•	•		
E105	PANEL SCHEDULES & ONE-LINE DIAGRAM		•	•	•	•		
E201	FIRST FLOOR LIGHTING AND ALARM		•	•	•	•		
E202	SECOND FLOOR LIGHTING & ALARM		•	•	•	•		
E203	ATTIC LIGHTING & ALARM		•	•	•	•		
ED101	ELECTRICAL DEMO PLAN		•	•	•	•		
ES101	ELECTRICAL SITE PLAN		•	•	•	•		
Grand total: 52								

REV. DESCRIPTION DATE

CONSTRUCTION SET
6/6/2022

LICENSED ARCHITECT CARLA N. HASKELL No. 2748 STATE OF MAINE

DESIGN GROUP COLLABORATIVE
ARCHITECTURE DESIGN + PLANNING
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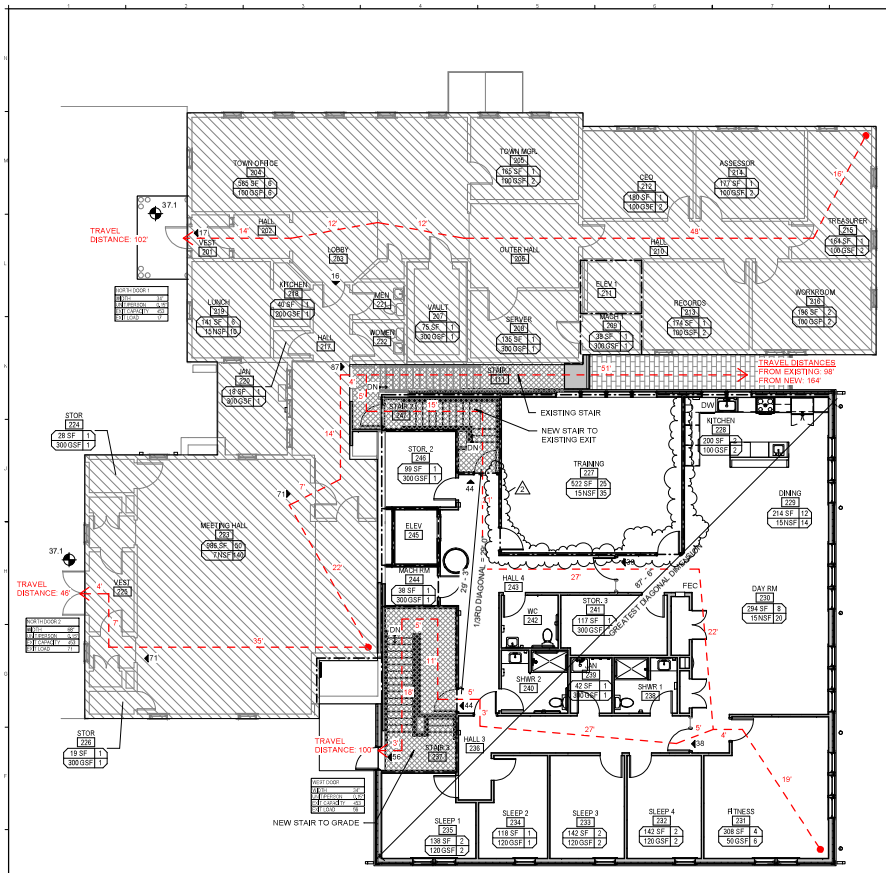
Mount Desert Fire Department
Station 1 Renovation

GENERAL NOTES

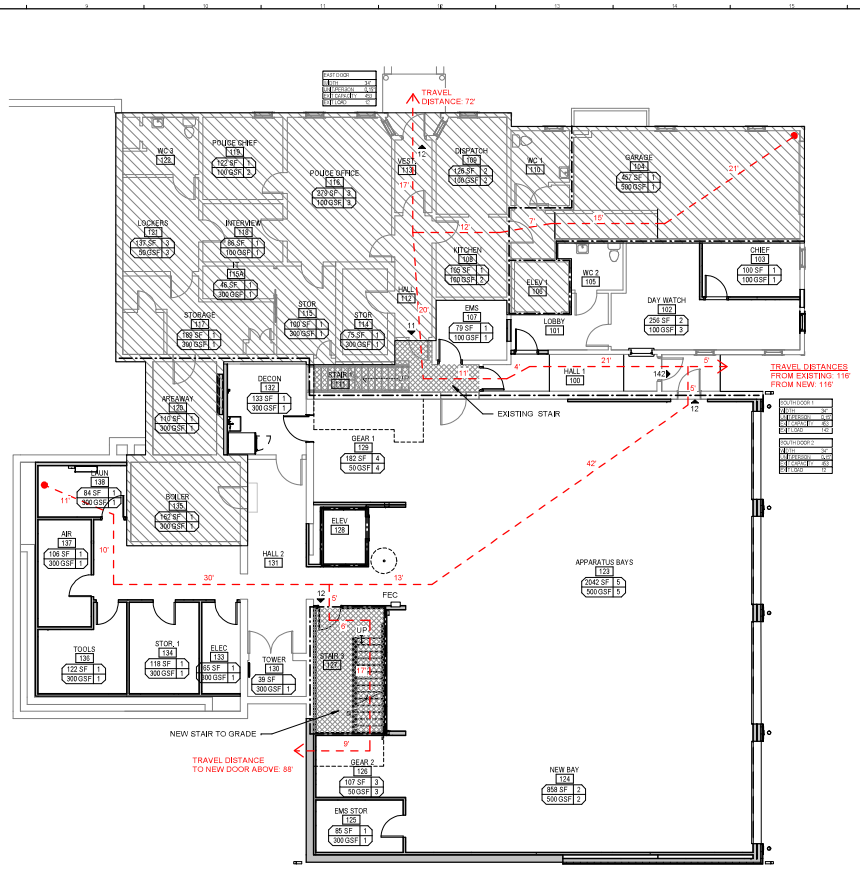
DATE	6/6/2022
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	Author
CHECKED BY	CMH

A001



TOTAL SQUARE FOOTAGE: 8660 sf. EXISTING: 4584 sf. / RENOVATED: 96 sf. / NEW: 3980 sf.

② LEVEL 2 - EGRESS
1/8" = 1'-0"



TOTAL SQUARE FOOTAGE: 9024 sf. EXISTING: 2968 sf. / RENOVATED: 4800 sf. / NEW: 1236 sf.

① LEVEL 1 - EGRESS
1/8" = 1'-0"

PROJECT LOCATION: TOWN OF NORTHEAST HARBOR

CODES and STANDARDS REFERENCED:

BUILDING
MAINE UNIFORM BUILDING and ENERGY CODE

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL EXISTING BUILDING CODE

ACCESSIBILITY
2009 ICC A117.1 - ACCESSIBLE anD USABLE BUILDINGS and FACILITIES

AUTOMATIC SPRINKLER SYSTEM
NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION

PROJECT SCOPE:

RENOVATION:
- RENOVATE PORTION OF EXISTING FIRST FLOOR OFFICES
- RENOVATE PORTION OF EXISTING FIRST FLOOR STORAGE AREAS
- RENOVATE PORTION OF EXISTING FIRST FLOOR APPARATUS BAYS

ADDITION:
- NEW APPARATUS BAY AT FIRST FLOOR
- NEW LIVING/DINING/KITCHEN/TRAINING AREA AT SECOND FLOOR
- NEW SLEEPING AREA AND BATHROOMS AT SECOND FLOOR

PROPOSED SAFETY AND CODE-RELATED IMPROVEMENTS:
- PROVIDE SEPARATION BETWEEN FIRST FLOOR LOBBY AND ELEVATOR LOBBY
- PROVIDE SEPARATION BETWEEN FIRST FLOOR STORAGE AND EXISTING MEETING ROOM SPACE ABOVE
- REDUCE PATH OF TRAVEL FROM FIRST FLOOR STORAGE AREAS

OCCUPANCY CLASSIFICATION
IBC:
Assembly A3 (Community Hall)
B (Business)
NFPA 101: Existing Assembly / New Business

REQUIRED SEPARATION:
IBC: Section 508.4
Horizontal Separation of 1 hour required between A3 and B occupancies (Sprinklered)
NFPA 101:
Business/Parking= 2 hours (permission to reduce to 1 hour if sprinklered.)

OCCUPANT LOADS:
IBC: Table 1004.1.2 – Maximum floor area per occupant

Meeting Room: 7 SF net
Training/Dining/Day Room: 15 SF net
Fitness/Locker Room: 50 SF gross
Offices: 100 SF gross
Sleeping Rooms: 120 SF gross
Kitchen: 100 SF gross
Mech/Storage Rooms: 300 SF gross
Apparatus Bays: 500 SF gross

FIRST FLOOR OCCUPANT LOAD = 47 people
SECOND FLOOR OCCUPANT LOAD = 263 people

TOTAL BUILDING OCCUPANT LOAD = 310 PEOPLE

MAX. EXIT TRAVEL DISTANCE = 250' (SPRINKLERED BUILDING)

OCCUPANT LOAD

First Floor - PROPOSED	**9,024 sf**	
Offices:	1009 sf / 100 gross sf per person = (279+217+126+122+100+86+79)	13 people
Locker Rooms:	424 sf / 50 gross sf per person = (172+137+115)	10 people
Storage:	1025 sf / 300 gross sf per person = (190+149+113+100+100+98+82+78+75+40)	10 people
Apparatus Bays:	3414 sf / 500 gross sf per person = (2067+890+457)	8 people
Mechanical:	519 sf / 300 gross sf per person = (162+135+113+107)	4 people
Kitchen:	105sf / 100 gross sf per person =	2 people
Subtotal		**47 people**
Second Floor - PROPOSED	**8,960 sf**	
Meeting:	981 sf / 7 net sf per person =	140 people
Training/Day/Dining/Lunch	1151 sf / 15 net sf per person = (509+291+210+141)	78 people
Offices:	1622 sf / 100 gross sf per person = (565+194+182+179+172+165+165)	18 people
Sleeping:	540sf / 120 gross sf per person = (140+140+140+120)	7 people
Mechanical:	320 sf / 300 gross sf per person = (135+54+50+37+26+18)	6 people
Storage:	305 sf / 300 gross sf per person = (98+85+75+28+19)	5 people
Kitchen:	238sf / 100 gross sf per person = (198+40)	3 people
Fitness:	300 sf / 50 gross sf per person =	6 people
Subtotal		**263 people**
TOTAL BUILDING OCCUPANT LOAD =		**310 PEOPLE**

ROOM TAG WITH OCCUPANCY CALCULATIONS
ROOM NAME 101 — 159 SF 10 — 300 GSF 10
GROSS SQUARE FEET
ACTUAL OCCUPANCY
EGRESS OCCUPANCY
NSF/GSF PER OCCUPANT

COMPONENT NAME 1 — 2 — 3 — 4 — 5
EGRESS COMPONENT TAG

EGRESS PATH & EXIT ACCESS TRAVEL DISTANCE FROM MOST REMOTE POINT SERVED BY EXIT

OCCUPANT LOAD AT EGRESS COMPONENT

EXISTING WALL TO REMAIN
NEW WALL
1-HR FIRE RESISTANCE RATED CONSTRUCTION
2-HR FIRE RESISTANCE RATED CONSTRUCTION

BUILDING AREA LEGEND
- EXISTING TO REMAIN
- NEW/RENOVATED
- EGRESS STAIRS

REV.	DESCRIPTION	DATE
1	ADDENDA	12/2/22
2	CODE & ELEVATOR	3/20/23

CONSTRUCTION SET
6/6/2022

N

DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
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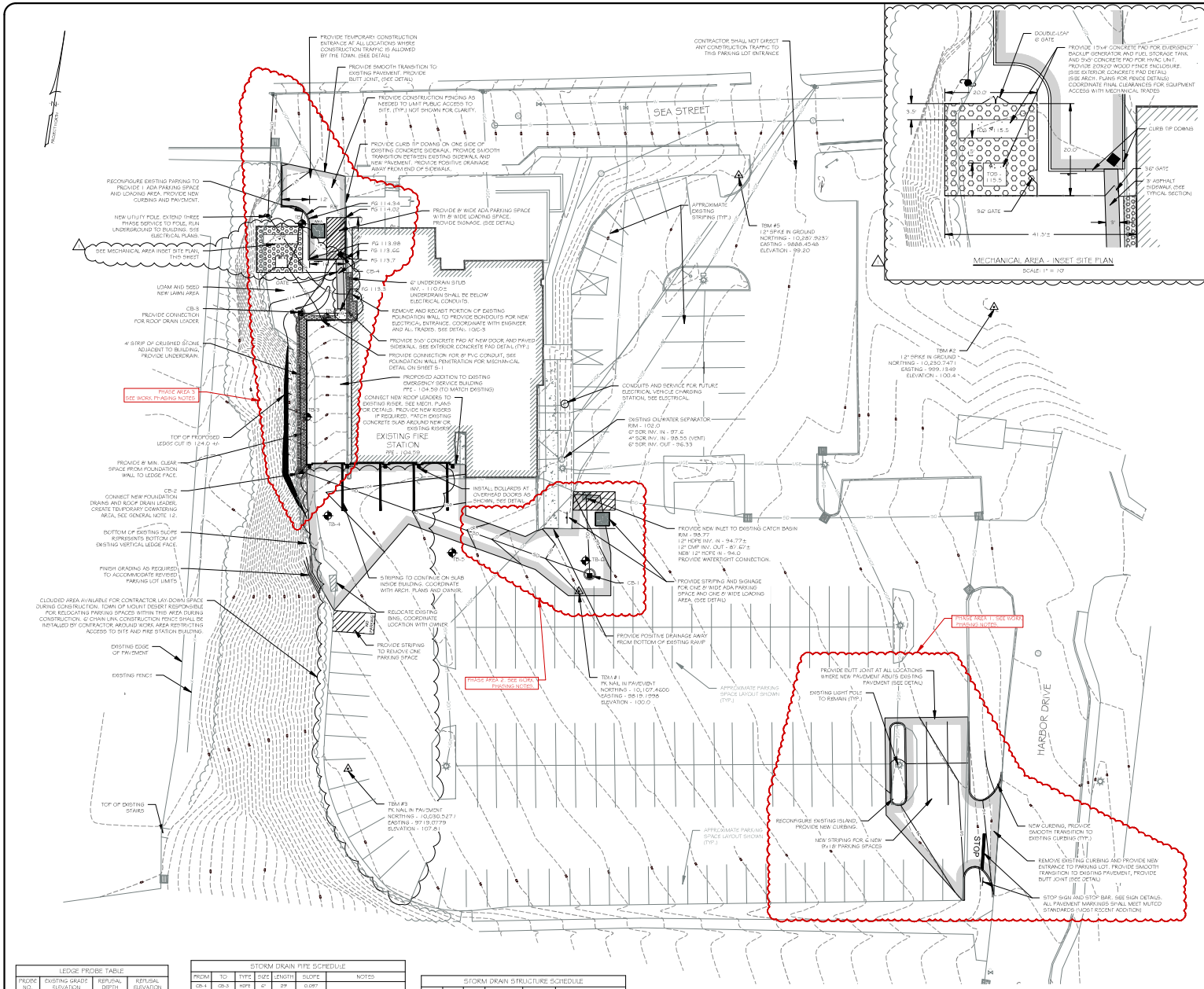
Mount Desert Fire Department
Station 1 Renovation

CODE PLANS

DATE	07/01/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	Author
APPROVED BY	CMH

A002



MECHANICAL AREA - INSET SITE PLAN

SCALE: 1" = 10'

GENERAL NOTES:

PLAN REFERENCES:

- EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, EDGE OF PAVEMENT, BUILDINGS, STORM DRAINS, UTILITIES, CONTOURS AND TOPOGRAPHICAL DATA OBTAINED BY HEDEFINE ENGINEERING & DESIGN, INC. CIRCA JULY/AUGUST 2021.
- SOME PERVIOUS FEATURES WERE UPDATED BASED ON HISTORICAL DATA, SITE OBSERVATIONS AND MEASUREMENTS.
- PROJECT IS ON ASSUMED DATUM, NORTH ORIENTATION SHOWN IS BASED ON OBSERVED NORTH ORIENTATION.
- NO WETLAND DELINEATION HAS BEEN PERFORMED.

1. CONTRACTOR RESPONSIBLE FOR PROJECT LAYOUT. DIGITAL FILE WILL BE PROVIDED BY ENGINEER UPON REQUEST.
2. CONTRACTOR RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL BENCHMARK ACCURACY PRIOR TO START OF CONSTRUCTION. INFORM ENGINEER IF BENCHMARKS ARE DETERMINED TO BE IN ERROR.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO BEGINNING ANY EXCAVATIONS.
4. CONTRACTOR RESPONSIBLE FOR MEETING MUTCD AND MAINE DOT TRAFFIC CONSTRUCTION WARNING SIGN REQUIREMENTS.
5. ALL GATE VALVES, CURB STOPS, CATCH BASINS, SEWER MANHOLES AND OTHER UTILITIES DISTURBED BY THE PROJECT SHALL BE SET FLUSH WITH FINISH GRADE OR AS DIRECTED BY ENGINEER IN FIELD.
6. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - LATEST EDITION (MUTCD).
7. ALL PAVEMENT RADII TO BE 5' UNLESS OTHERWISE NOTED.
8. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT REPRESENT ALL EXISTING UTILITIES.
9. ALL NEW CURBING SHALL BE BITUMINOUS.
10. CONTRACTOR RESPONSIBLE FOR PROVIDING SMOOTH TRANSITIONS AT ALL AREAS WHERE NEW WORK ABUTS EXISTING SITE IMPROVEMENTS.
11. ANY DISTURBED AREAS NOT TO RECEIVE BUILDINGS, PAVEMENT, OR OTHER GROUND COVER SHALL BE LOAMED AND SEEDED OR RETURNED TO EXISTING CONDITION OR BETTER.
12. AS EARLY IN THE CONSTRUCTION PROCESS AS PRACTICABLE, CONTRACTOR SHALL CONSTRUCT DEWATERING AREA ADJACENT TO THE LOCATION OF PROPOSED CATCH BASIN 2. THIS AREA SHALL SERVE AS A SETTLING BASIN FOR SURFACE RUNOFF AND FOR PUMPING. SEE DEWATERING DETAILS.
13. NO METAL TRACKED EQUIPMENT IS ALLOWED TO BE UNLOADED OR OPERATED ON ANY PAVEMENT SURFACES AT ANY TIME WITHOUT ADEQUATE MEANS OR PROTECTING PAVEMENT. ANY DAMAGES TO EXISTING PAVEMENT FROM THE CONTRACTORS USE OF EQUIPMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

WORK PHASING NOTES:

1. THE POLICE GARAGE SHALL REMAIN ACCESSIBLE AND IN OPERATION AT ALL TIMES EXCEPT WHEN WORK IMMEDIATELY ADJACENT TO THE GARAGE IS IN PROGRESS. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE POLICE DEPARTMENT WHEN SCHEDULING THIS WORK TO MINIMIZE INTERRUPTION TO THE POLICE DEPARTMENT, SPECIFICALLY THE POLICE GARAGE.
2. THE FIRE STATION SHALL REMAIN FULLY ACCESSIBLE AND IN OPERATION UNTIL FIRE DEPARTMENT OPERATIONS ARE MOVED OUT OF THE SITE. COORDINATE ANY PHASED WORK CLOSELY WITH THE FIRE DEPARTMENT TO ENSURE A CLEAR PATH FOR EMERGENCY VEHICLE INGRESS AND EGRESS. SEE SPECIFICATIONS SECTION 01 1000 FOR PROJECT PHASING AND TIMING.
3. AT THE CONTRACTORS OPTION AREAS APPROVED FOR PHASED WORK MAY BE STARTED PRIOR TO THE FIRE STATION BEING VACATED BY THE FIRE DEPARTMENT. THESE AREAS INCLUDE THE FOLLOWING:

AREA 1: NEW ACCESS ONTO HARBOR DRIVE, AS MARKED ON THIS PLAN
AREA 2: WORK DIRECTLY ADJACENT TO THE POLICE GARAGE, AS MARKED ON THIS PLAN
AREA 3: LEDGE REMOVAL, UPPER PARKING LOT WORK AND WORK TO THE WEST OF THE EXISTING FIRE STATION BUILDING THAT WILL NOT INTERRUPT OR NEGATIVELY AFFECT FIRE STATION OPERATIONS, AS MARKED ON THIS PLAN

LEGEND

PROPOSED		EXISTING
	PROPERTY LINE	
	SETBACK LINE	
	EASEMENT LINE	
	EDGE OF PAVEMENT	
	CURB	
	EDGE OF GRAVEL	
	BUILDING	
85	SUBV. CONTOURS	85
W	WATER	W
S	SEWER	S
SD	STORMDRAIN	SD
UD	UNDERDRAIN	UD
OHU	OVERHEAD UTILITY	OHU
UGU	UNDERGROUND UTILITY	UGU
F	FENCE	F
SF	SILT FENCE (OR MULCH BERM)	SF
	RETAINING WALL	
TOW - 122.5	TOP OF WALL ELEVATION	
SCD	STONE CHECK DAM	
	FIRE HYDRANT	
	SEWER MANHOLE	
	GATE VALVE	
	TREE OR TREELINE	
	UTILITY POLE	
	PROPERTY PIN	
	BENCHMARK	
	TEST PIT	
	TEST BORING	
	HANDICAP PARKING SYMBOL	
	SIGN	
	BOLLARD	
	SITE LIGHTING	
	PAVEMENT MARKING	
	CATCH BASIN (CB) DRAIN BASIN (DB) FIELD BASIN (FB)	

HATCH LEGEND

	CONCRETE
	NEW PAVED PARKING/ROADS
	RIPRAP
	CRUSHED STONE STRIP

LEDGE PROBE TABLE			
PROBE NO.	EXISTING GRADE ELEVATION	REFUSAL DEPTH	REFUSAL ELEVATION
TB-1	111.08	3.1	110.88
TB-2	113.21	3.2	110.01
TB-3	108.17	0.8	107.37
TB-4	104.21	5.0	99.21
TB-5	102.38	NO REFUSAL AT 7.4'	NA
TB-6	99.49	NO REFUSAL AT 6.0'	NA

STORM DRAIN PIPE SCHEDULE							
FROM	TO	TYPE	SIZE	LENGTH	SLOPE		NOTES
CB-1	CB-3	HDPE	6"	29'	0.097		
ROOF	CB-3	HDPE	6"	3'±	0.02 MIN		
LB	CB-3	HDPE	6"	21'±	0.02		TYPE B UNDERDRAIN
CB-3	CB-2	HDPE	12"	60'	0.128		TYPE O UNDERDRAIN
FD	CB-2	HDPE	4"	3'±	0.02 MIN		
ROOF	CB-2	HDPE	6"	3'±	0.02 MIN		
CB-2	CB-1	HDPE	12"	129'	0.023		
CB-1	EX. CB	HDPE	12"	30'	0.033		

STORM DRAIN STRUCTURE SCHEDULE					
BASIN NO.	BASIN SIZE	RIM ELEV.	INV. IN ELEV.	INV. OUT ELEV.	NOTES
CB-1	4'Ø	99.5	12" - 95.1	12" - 95.0	
CB-2	4'Ø	101.5	12" - 100.0 4" FD - 100.0 6" FD - 99.2	12" - 98.0	
CB-3	4'Ø	112.7	12" - 108.7 6" UD - 108.4	12" - 108.3	
CB-4	TYPE 'F'	113.6	-	6" - 111.5	

SITE & GRADING PLAN

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1" = 20 ft.

DATE	REVISIONS
06/13/2022	ALL CONSULTING WORK IS A PERSONAL PROFESSIONAL RECORD
06/13/2022	2 - ISSUED FOR CONSTRUCTION

DRAWN BY: RC
REVIEWED BY: AW
DATE: 6/13/2022
SCALE: AS NOTED

MOUNT DESERT FIRE STATION #1 RENOVATION

OWNER: TOWN OF MOUNT DESERT
ADDRESS: 21 SEA STREET, NORTHEAST HARBOR, MAINE
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE
PROJECT #: 20002

SITE & GRADING PLAN

STATE OF MAINE
AARON WILLIAMS
No. 11164
LICENSED
PROFESSIONAL ENGINEER
DATE:

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0930

DRAWING PHASE: CD

SHEET: C-1

1 C-2 EROSION AND SEDIMENT CONTROL NOTES

PERMANENT SEEDING NOTES FOR ALL DISTURBED AREAS

1. DURING PERIOD FROM APRIL 15 TO OCTOBER 15, AREAS DISTURBED SHALL BE LIMED, FERTILIZED, SEEDED AND MULCHED AS FOLLOWS:
   A. SEEDING SHALL BE AS SPECIFIED IN MDOT STANDARD SPECIFICATIONS, SECTION 618 FOR VARIOUS AREAS.
   B. SEEDING SHALL INCLUDE FERTILIZERS, MULCH, LIME AND OTHER ITEMS IN SECTION 616.
2. AFTER SEEDING, AREAS DISTURBED SHALL BE MULCHED AS DESCRIBED IN MDOT STANDARD SPECIFICATIONS SECTION 619.
3. NO SEEDING SHALL TAKE PLACE BETWEEN JUNE 15 AND AUGUST 15. AS A CONTINGENCY PLAN, AREAS DISTURBED BETWEEN THESE DATES SHALL BE HAY MULCHED AT A RATE OF 2 BALES/1,000 SF. AND SECURED WITH A FEG AND TWINE OP 4-6 PEGS/SY OR WITH TERRA TACK II AT A RATE OF 60 GALLONS/ACRE.
4. WEEKLY, OR AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE HALF INCH OF RAINFALL OR SNOWMELT, ALL MULCHED AREAS SHALL BE INSPECTED FOR SUITABILITY FOR EROSION CONTROL AND SLOPE PROTECTION. WEAKENED AREAS SHALL BE RE-MULCHED AS #2 ABOVE.
5. WITHIN 30-45 DAYS OF SEED APPLICATION, ALL AREAS SHALL BE INSPECTED FOR SATISFACTORY GROWTH. AREAS OF LESS THAN 75% GROWTH SHALL BE RESEEDED AT ORIGINAL APPLICATION RATES, MULCHED AND MAINTAINED ACCORDINGLY AS SPECIFIED ABOVE.
6. PERMANENT SEEDING SHALL BE INSTALLED IMMEDIATELY UPON REACHING FINAL GRADE.

EROSION CONTROL CONSTRUCTION SEQUENCE

ALL EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL OCCUR AFTER APRIL 15 AND BEFORE NOVEMBER 15 UNLESS WINTER EROSION CONTROL MEASURES ARE IMPLEMENTED. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES PRIOR TO THE DISTURBANCE OF ANY WORK AREA.

1. INSTALL ALL INLET PROTECTION DEVICES, TEMPORARY CONSTRUCTION ENTRANCE, SILT SOCK, DEWATERING AREA AND OTHER NECESSARY EROSION CONTROL MEASURES.
2. PROPOSED CONSTRUCTION IS CONFINED TO THE EXISTING OPEN AREA ON THE SITE, NO CLEARING, OTHER THAN LEDGE REMOVAL, IS ANTICIPATED.
3. CREATE TEMPORARY STAGING AREAS NECESSARY FOR CONSTRUCTION.
4. GRADE PROJECT TO SUBGRADE LEVEL IN A LOGICAL MANNER TO MINIMIZE EARTH MOVING AND TO PRESERVE LAND NOT TO BE DISTURBED.
5. BEGIN DRAINAGE, UTILITY, FOUNDATION AND DRIVEWAY CONSTRUCTION.
6. COMPLETE FINISH GRADING, LOAM, SEED AND MULCH ALL DISTURBED AREAS NOT TO BE PAVED, GRAVEL OR RIP-RAP COVER.
7. COMPLETE UNFINISHED CONSTRUCTION.
8. REMOVE TEMPORARY DIVERSION DITCHES, HAY BALES, AND STONE CHECK DAMS WHEN 75% OF GRASS GROWTH HAS BEEN ESTABLISHED.

WINTER STABILIZATION CONTROL MEASURES NOTES

1. ALL OPEN AREAS WHICH ARE NOT PERMANENTLY STABILIZED WILL BE HEAVILY MULCHED WHEN WORK IS COMPLETED ON SITE AND NOT ANTICIPATED AGAIN WITHIN ONE DAY.
2. ALL OPEN AREAS WILL BE HEAVILY MULCHED EVERY NIGHT IN THE CASE OF A FORECAST OF STORMY WEATHER WITHIN 12 HOURS.

TEMPORARY SEEDING NOTES

1. ANY DISTURBED AREAS TO BE LEFT IN ROUGH GRADED FORM FOR MORE THAN 30 DAYS BUT LESS THAN ONE GROWING SEASON SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED.
2. APPLICATION RATES AND MATERIALS USED SHALL BE THE SAME AS FOR PERMANENT SEEDING EXCEPT SEED MIXTURE SHALL BE ANNUAL RYEGRASS.

DORMANT SEEDING NOTES

1. DURING PERIODS FROM OCTOBER 1 TO NOVEMBER 15, AREAS DISTURBED SHALL BE DORMANT SEEDED WITH WINTER RYE, 1.5 LBS/1,000 SF. DURING PERIODS BETWEEN NOVEMBER 15 AND APRIL 15, DISTURBED AREAS SHALL BE MULCHED AND IF NECESSARY, STABILIZED WITH EROSION CONTROL MESH.

GENERAL NOTES

1. ON-SITE STABILIZATION WILL BE DONE WITHIN 15 DAYS OF FINAL GRADING OR WITHIN 30 DAYS OF INITIAL SOIL DISTURBANCE.
2. EVERY WEEK AND AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE HALF INCH OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF SEDIMENT FROM SILT FENCE IF SOIL ACCUMULATES TO A DEPTH OF ONE-HALF THE FABRIC HEIGHT, REPAIR OF STONE CHECK DAMS IF RUNOFF CHANNELIZES UNDER OR AROUND THE DAMS, AND WASHING OF TEMPORARY CONSTRUCTION ENTRANCES PRIOR TO OCCURRENCES OF SIGNIFICANT TRACKING.
3. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "MAINE EROSION & SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", BY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2003, MDEP STORMWATER PBR STANDARDS SECTION 14 & MDEP CHAPTER 500 STORMWATER MANAGEMENT APPENDICES A, B & C.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES, INCLUDING MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL.
5. EROSION CONTROL MAT SHALL BE INSTALLED ON ALL LOAMED AND SEEDED AREAS WHICH HAVE A SLOPE GREATER THAN 3:1.
6. WATER SHALL BE UTILIZED TO CONTROL DUST IF NECESSARY. (AS DETERMINED BY THE ENGINEER)
7. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A MONTHLY BASIS ONCE FINAL STABILIZATION IS COMPLETE, BY THE INSPECTING ENGINEER. THIS INSPECTION IN NO WAY REDUCES OR ELIMINATES THE CONTRACTORS RESPONSIBILITY TO ADHERE WITH VERBAL OR WRITTEN REQUIREMENTS OF DEP, ARMY CORPS, EPA, OR OTHER JURISDICTIONAL AGENCIES.
8. AFTER EACH INSPECTION OF EROSION CONTROL MEASURES, AN INSPECTION REPORT DETAILING THE SCOPE OF THE INSPECTION, NAME(S) OF PERSONNEL CONDUCTING THE INSPECTION, DATE, MAJOR OBSERVATIONS, AND ACTIONS TAKEN, SHALL BE MADE AND KEPT ON FILE FOR THREE YEARS AFTER THE INSPECTION.

INFRASTRUCTURE MAINTENANCE

STRUCTURE TYPE	INSPECTION	CLEANING
STONE CHECK DAMS	MONTHLY	AS NEEDED
SILT FENCES	MONTHLY	AS NEEDED
CULVERTS	MONTHLY	AS NEEDED

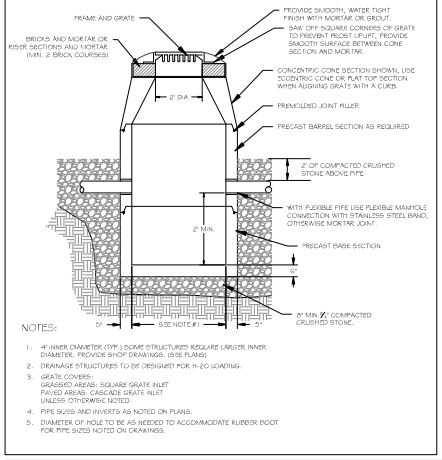
SPECIFIC INSTRUCTIONS:

1. SILT FENCE - SILT FENCES SHOULD BE CHECKED AT LEAST MONTHLY DURING CONSTRUCTION. IF NEEDED, THEY SHOULD BE REPLACED.
2. CULVERTS - CULVERTS SHOULD BE CHECKED MONTHLY FOR ACCUMULATION OF DEBRIS. IF NEEDED THEY SHOULD BE DREDGED.

*A STORMWATER MAINTENANCE LOG SHOULD BE MAINTAINED TO DOCUMENT COMPLIANCE WITH THE SUGGESTED SCHEDULE.

2 C-2 PRECAST CONCRETE CATCH BASIN (CB)

NOT TO SCALE

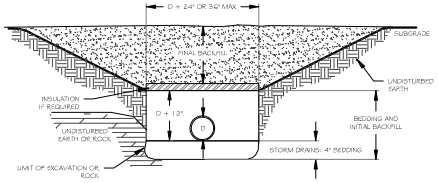


NOTES:

1. 4' INNER DIAMETER (TYP.) SOME STRUCTURES REQUIRE LARGER INNER DIAMETER. PROVIDE SHOP DRAWINGS. (SEE PLANS)
2. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
3. GRATE COVERS:
   GRASSED AREAS: SQUARE GRATE INLET
   PAVED AREAS: CASCADE GRATE INLET
   UNLESS OTHERWISE NOTED
4. PIPE SIZES AND INVERTS AS NOTED ON PLANS.
5. DIAMETER OF HOLE TO BE AS NEEDED TO ACCOMMODATE RUBBER BOOT FOR PIPE SIZES NOTED ON DRAWINGS.

3 C-2 STORM DRAIN PIPE TRENCH DETAIL

NOT TO SCALE

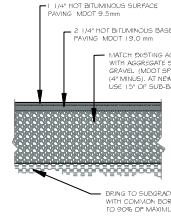


NOTES:

1. SEE SPECIFICATIONS FOR SOIL DESCRIPTIONS.
2. FINAL BACKFILL SHALL BE:
   "SATISFACTORY SOIL" COMPACTED TO 95% MDD UNDER ROADS & PATHS OR 90% IN OTHER LOCATIONS. (SEE SPECIFICATIONS)
3. WHERE INSULATION IS REQUIRED, PLACE 6" CLEAN COARSE SAND OVER INSULATION BOARD.

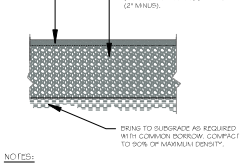
9 C-2 ROAD, PARKING & TRENCH PAVEMENT SECTION

NOT TO SCALE



SIDEWALK PAVEMENT SECTION

NOT TO SCALE

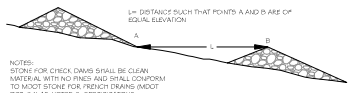


NOTES:

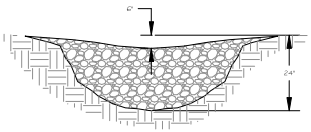
1. COMPACT GRAVEL OR SUB-BASE, BASE COURSE TO 95% MAXIMUM DRY DENSITY USING HEAVY ROLLER COMPACTION.
2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUB-BASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

4 C-2 STONE CHECK DAM

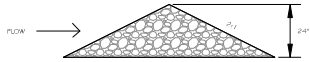
NOT TO SCALE



NOTES:
STONE FOR CHECK DAMS SHALL BE CLEAN MATERIAL WITH NO FINES AND SHALL CONFORM TO MOOT STONE FOR FRENCH DRAINS (MDOT 703.24) AS NOTED IN SPECIFICATIONS.

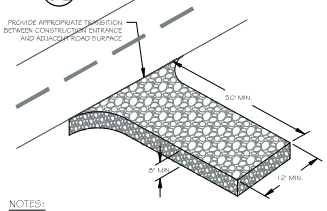


GROUND SLOPE (%)	SPACE BETWEEN DAMS (FT)
.02	100
.03	66
.04	50
.05	40
.08	25
.10	20
.12	17
.15	13



5 C-2 CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

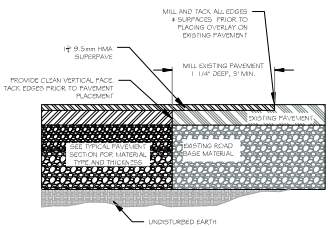


NOTES:

1. STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 2 (2½" TO ½"). USE CRUSHED STONE.
2. LENGTH - AS SHOWN ON GRADING PLAN, MIN. 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

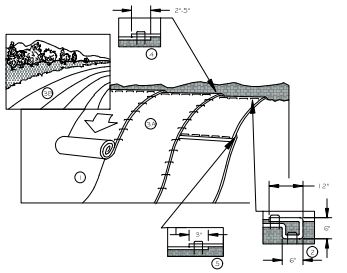
10 C-2 PAVEMENT BUTT JOINT DETAIL

NOT TO SCALE



6 C-2 EROSION CONTROL FABRIC

NOT TO SCALE

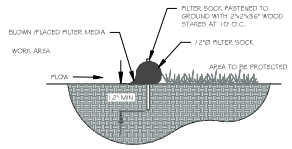


NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS) INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. RECP SHALL BE NORTHAMERICAN GREEN S75 OR APPROVED EQUAL.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECPS BACK OVER SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECPS TYPE.
5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPS WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTH GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECPS.

7 C-2 SILT SOCK

NOT TO SCALE



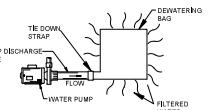
NOTES:

1. MULCH BERMS CREATED FROM STUMP GRINDINGS ARE AN ACCEPTABLE OR COIR WATTLES BE USED INSTEAD OF SILT FENCE WHERE APPROPRIATE.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND BUILT UP MATERIAL SHALL BE REMOVED WHEN NECESSARY FOR SILT SOCK TO CONTINUE TO FUNCTION.
3. SILT SOCK SHALL BE OVERLAPPED BY 2' MINIMUM DISTANCE AT ALL JOINTS.

8 C-2 DEWATERING OPTIONS

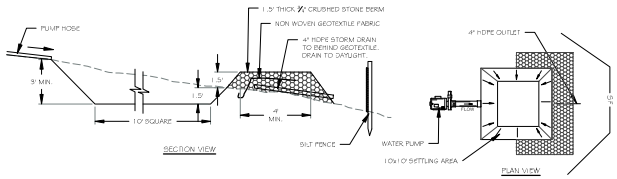
NOT TO SCALE

OPTION 1 - DEWATERING BAG



INSTALLATION: PLACE LIFTING STRAPS (NOT INCLUDED) UNDER THE UNIT TO FACILITATE REMOVAL AFTER USE. UNFOLD DANDY DEWATERING BAG ON A STABILIZED AREA OVER DENSE VEGETATION, STRAW, OR GRAVEL (IF AN INCREASED DRAINAGE SURFACE IS NEEDED). INSERT DISCHARGE HOSE FROM PUMP INTO DEWATERING BAG. A MINIMUM OF SIX INCHES (6") AND TIGHTLY SECURE WITH THE ATTACHED STRAP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED. FOLLOW MANUFACTURERS RECOMMENDATIONS. MAINTENANCE: REPLACE THE UNIT WHEN 1/2 FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE. FOLLOW MANUFACTURERS RECOMMENDATIONS.

OPTION 2 - SETTLING AREA



DATE	REVISIONS
2/28/2022	ADDED DETAILS
6/6/2022	1 - AH - PERMIT PLAN - NO ADDITIONAL COMMENTS
	2 - PERMIT PLAN CORRECTIONS

MOUNT DESERT FIRE STATION #1 RENOVATION

OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE

DRAWN BY: LH
REVIEWED BY: AW
DATE: 6/6/2022
PROJECT #: 20002
SCALE: NTS

DETAILS

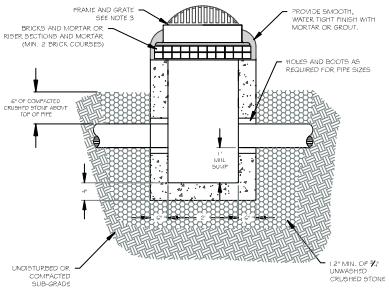
STATE OF MAINE
No. 11164
LICENSED
PROFESSIONAL ENGINEER

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0930

DRAWING PHASE: CD

SHEET: C-2

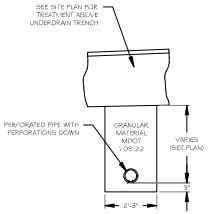
1 C-3 TYPE 'F' CATCH BASIN
NOT TO SCALE



NOTES:

1. ENTIRE BASIN WITH EXCEPTION OF LEVELING BRICK, FRAME AND GRATE TO BE PRECAST AS SINGLE PORTLAND CEMENT UNIT.
2. HOLE DIAMETER AS REQUIRED TO ACCOMMODATE RUBBER BOOT FOR PIPE SIZES NOTED ON DRAWINGS.
3. GRATE COVERS:
   GRASSED AREAS: BEEHIVE GRATE
   PAVED AREAS: SQUARE GRATE INLET
   UNLESS OTHERWISE NOTED
4. BASIS OF DESIGN IS AMERICAN CONCRETE INDUSTRIES TYPE "F" CATCH BASIN SPEC SHEET.

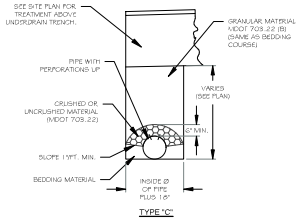
2 C-3 TYPE 'B' UNDERDRAIN DETAIL
NOT TO SCALE



NOTE:

1. THE MATERIAL FOR ELBOWS, TEES & WYES FOR UNDERDRAINS SHALL BE AT LEAST AS THICK AS THE LARGEST SIZE PIPE BEING CONNECTED.
2. SIZE AND MATERIAL OF UNDERDRAIN AS NOTED ON PLANS.

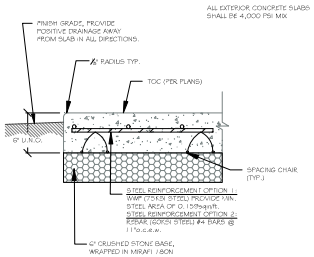
3 C-3 TYPE 'C' UNDERDRAIN DETAIL
NOT TO SCALE



NOTES:

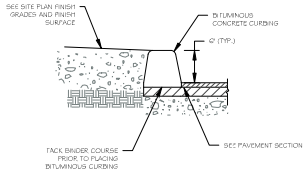
1. THE MATERIAL FOR ELBOWS, TEES & WYES FOR UNDERDRAINS SHALL BE AT LEAST AS THICK AS THE LARGEST SIZE TYPE BEING CONNECTED.
2. SEE SPECIFICATIONS FOR MATERIAL DESIGNATIONS.

4 C-3 TYPICAL EXTERIOR CONCRETE SLAB DETAIL
NOT TO SCALE

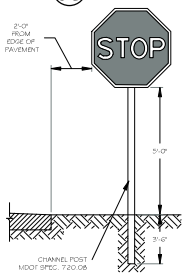


SECTION VIEW

5 C-3 BITUMINOUS CURB DETAIL
NOT TO SCALE

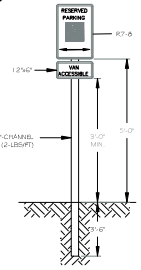


6 C-3 TYP. SIGNAGE
NTS



NOTE:
ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SIGNS SHALL BE MDOT, "TYPE 1, REGULATORY". SUBMIT SIGN LAYOUT DRAWINGS

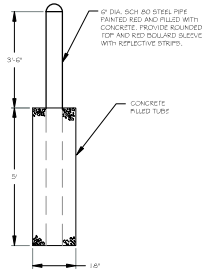
7 C-3 ADA PARKING SIGN DETAIL
NTS



NOTE:

1. ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SIGNS SHALL BE MDOT, TYPE 1, REGULATORY". SUBMIT SIGN LAYOUT DRAWINGS.
2. "VAN ACCESSIBLE" SHALL ONLY BE AT SPOTS SO DESIGNATED ON SITE PLAN.

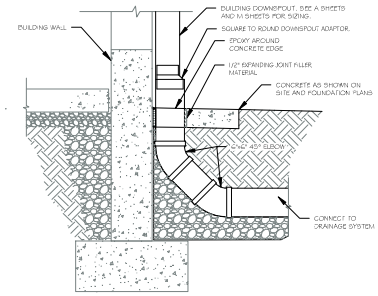
8 C-3 BOLLARD DETAIL
NTS



NOTE:

1. BOLLARD SLEEVES SHALL BE LUNE SMOOTH BOLLARD SLEEVES OR APPROVED EQUAL. SLEEVES SHALL BE UV RESISTANT, CONSTRUCTED OF HIGH-DENSITY POLYETHYLENE AND SHALL INCLUDE INSTALLATION KIT.

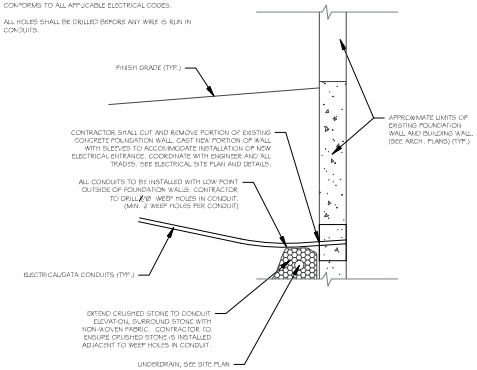
9 C-3 GUTTER DOWNSPOUT CONNECTION TO DRAINAGE SYSTEM
NTS



10 C-3 ELECTRICAL CONDUITS ADJACENT TO FOUNDATION WALLS
NOT TO SCALE

NOTES:

1. CONTRACTOR TO ENSURE THAT ALL ELECTRICAL WORK CONFORMS TO ALL APPLICABLE ELECTRICAL CODES.
2. ALL HOLES SHALL BE DRILLED BEFORE ANY WIRE IS RUN IN CONDUITS.



REVISIONS DETAILS	DATE
1. ALL CHANGES MADE VIA ADDENDA DURING BIDDING	07/02/2022
2. ISSUED FOR CONSTRUCTION	08/02/2022

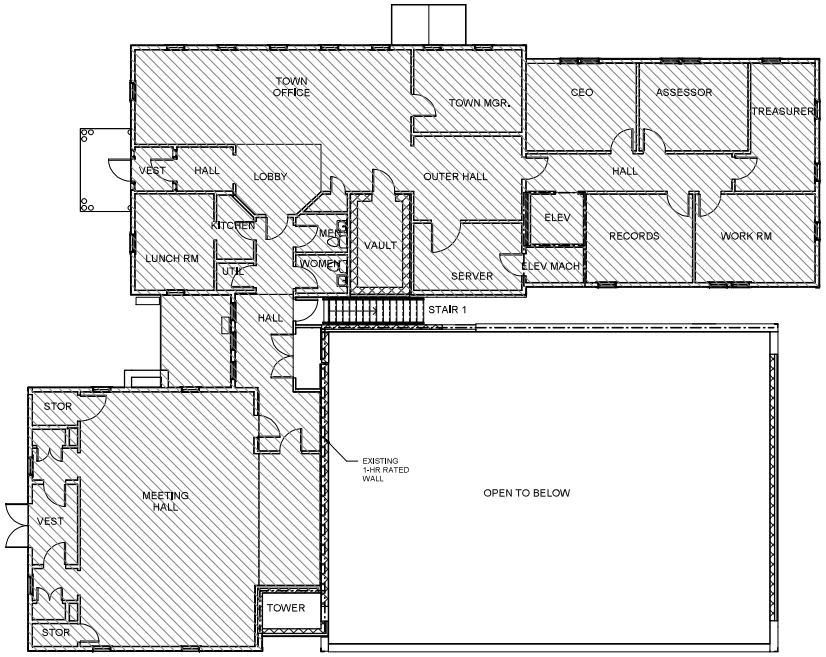
DRAWN BY: LP
APPROVED BY: NV
DATE: 6/02/2022
SCALE: N.T.S.

OWNER: MOUNT DESERT FIRE STATION #1 RENOVATION
ADDRESS: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE
PROJECT #: 20020
DETAILS

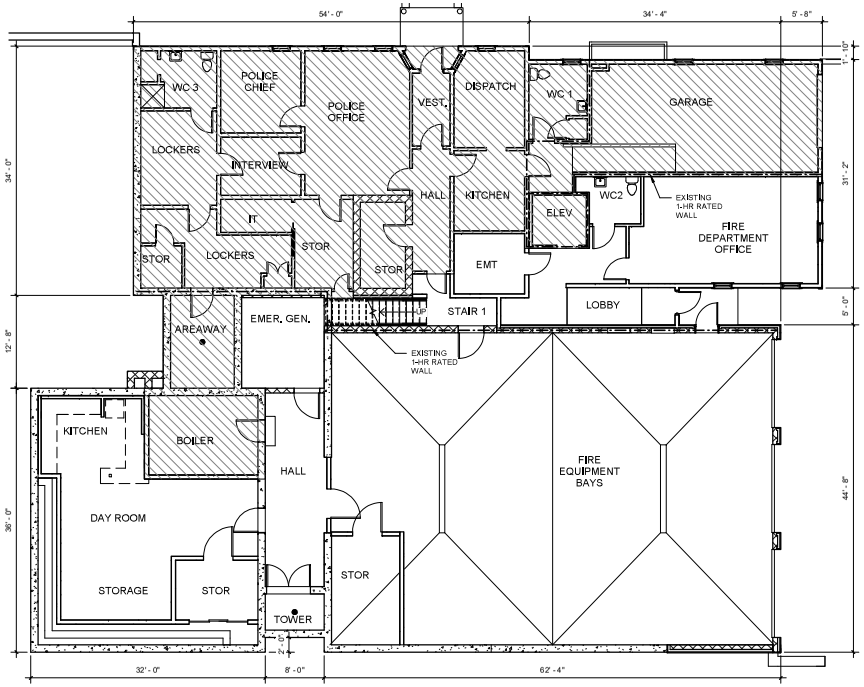
HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 66A
ELLSWORTH, ME 04605
(207) 664-0830

DRAWING PHASE: CD

SHEET: C-3



2 LEVEL 2 - EXISTING
1/8" = 1'-0"



1 LEVEL 1 - EXISTING
1/8" = 1'-0"

BUILDING AREA LEGEND

- EXISTING TO REMAIN
- TO BE RENOVATED

REV.	DESCRIPTION	DATE
1	ADDENDA	[illegible]
2	CMG & ELLSWORTH	[illegible]

CONSTRUCTION SET
6/6/2022

N

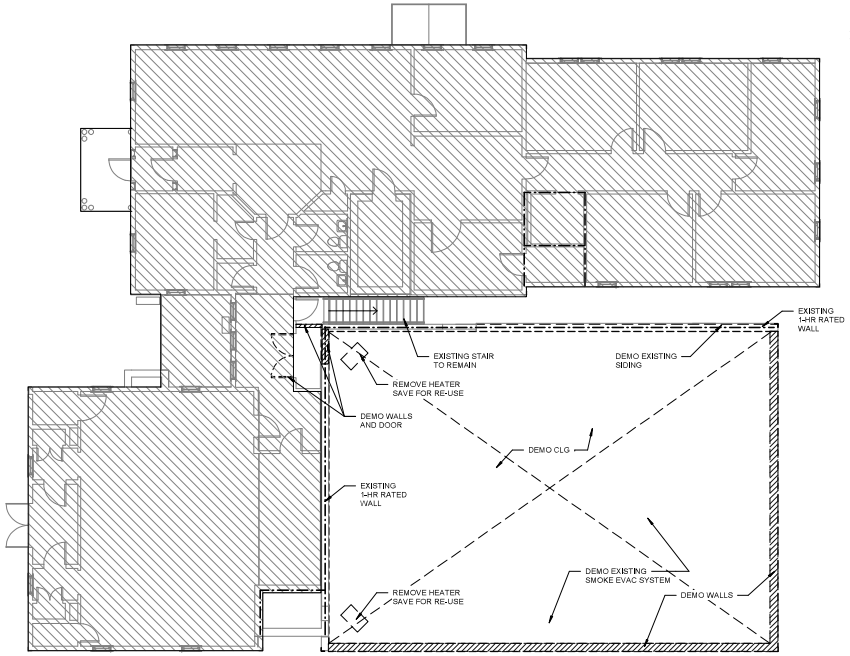
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

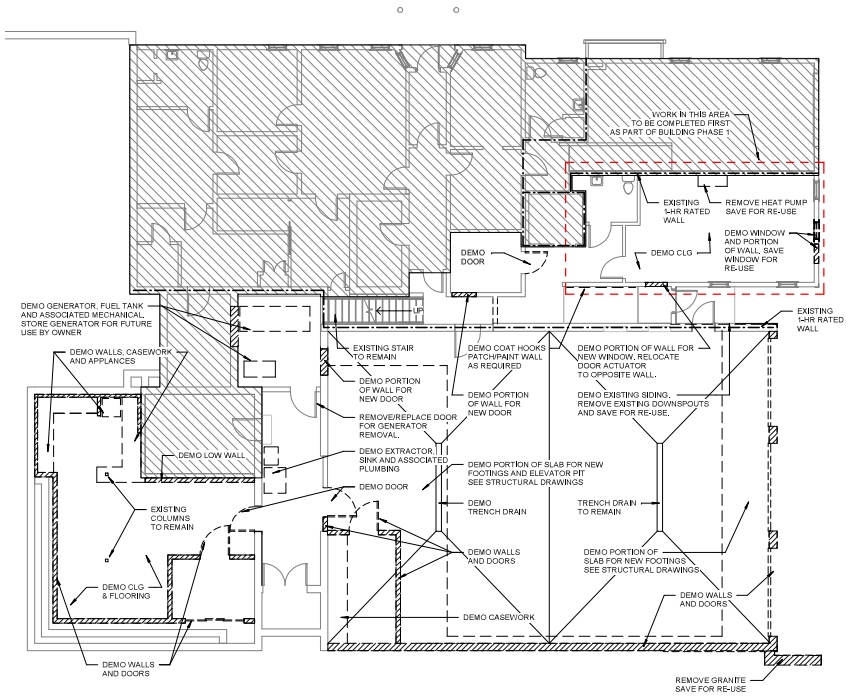
EXISTING PLANS

DATE	07/08/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

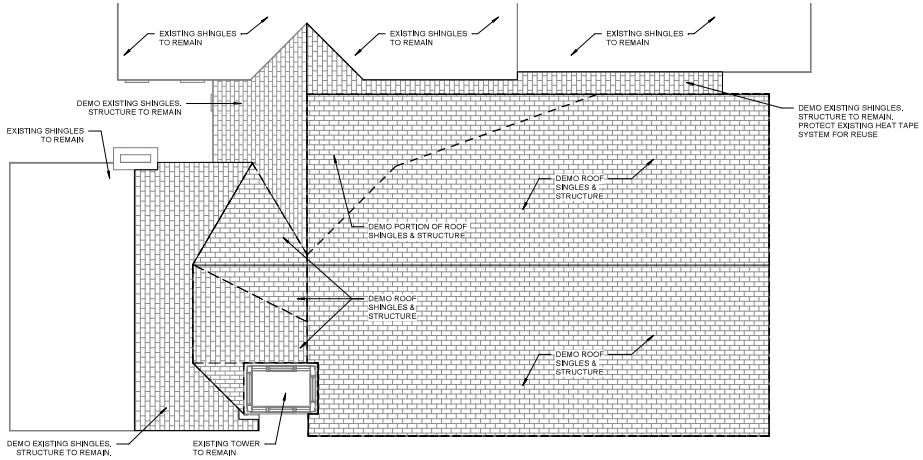
A101



2 LEVEL 2 - DEMO
1/8" = 1'-0"



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



3 ROOF - DEMO
1/8" = 1'-0"

WALL TYPE KEY

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW WALL

GENERAL DEMOLITION NOTES

1. DIMENSIONS FOR EXISTING ARE SHOWN FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY DEMOLITION OR CONSTUCTION.

2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITY LINES (ELECTRIC, WATER, SEWER, GAS, ETC) PRIOR TO START OF DEMOLITION. DISCONNECTIONS SHALL BE MADE BY QUALIFIED MECHANICS

3. IF HAZARDOUS MATERIALS ARE UNCOVERED DURING DEMOLITION, FOLLOW STATE AND LOCAL REGULATIONS REGARDING REMOVAL.

4. IT IS THE CONTRACTORS RESPONSIBILTY TO SAFELY SUPPORT ALL EXISTING STRUCTURES UNTIL NEW SUPPORTS ARE IN PLACE.

5. DEMOLITION OF AN EXISTING WALL OR CEILING INCLUDES THE DEMOLITION OF THE EXISTING ELECTRICAL RECEPTACLES AND LIGHTING FIXTURES LOCATED WITHIN EACH.

6. PATCH & REPAIR EXISTING WALL, CEILING & FLOOR IN AREA OF DEMOLITION TO THE SAME LEVEL OF FINISH AS AREAS IMMEDIATELY ADJACENT TO DEMO AREA.

BUILDING AREA LEGEND

- EXISTING TO REMAIN
- TO BE RENOVATED

REV.	DESCRIPTION	DATE
	ADDENDA	7/2/22
2	DEMO & BUILDING	8/30/22

CONSTRUCTION SET
6/6/2022

N

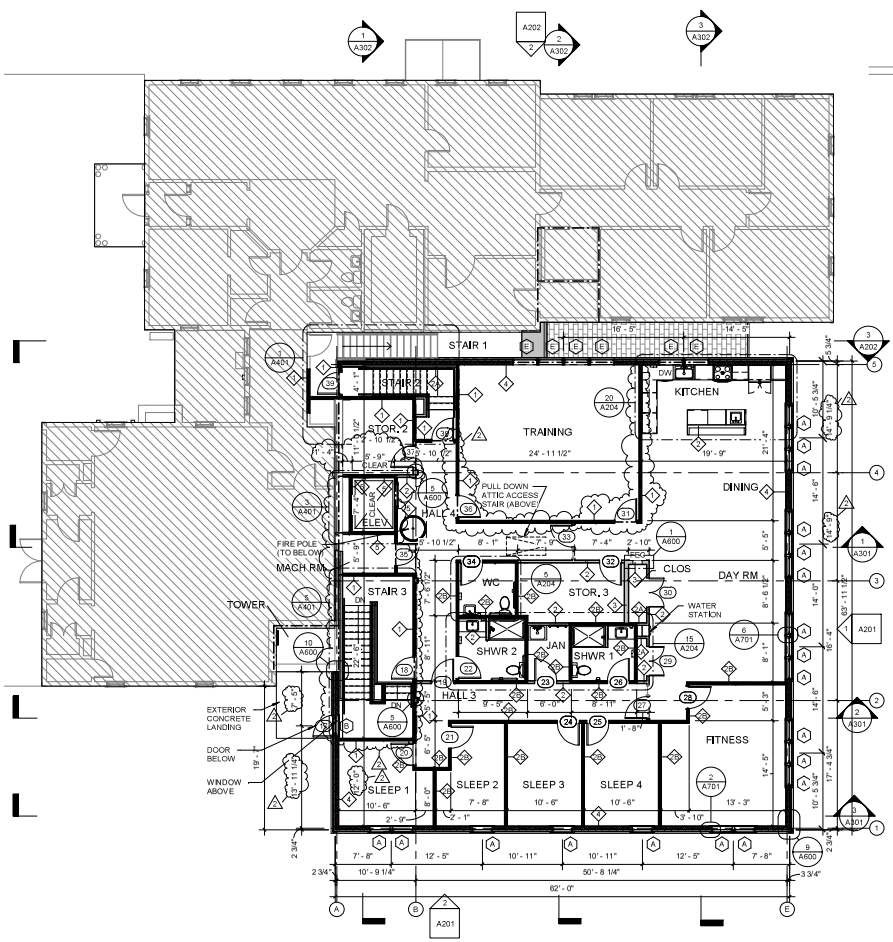
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

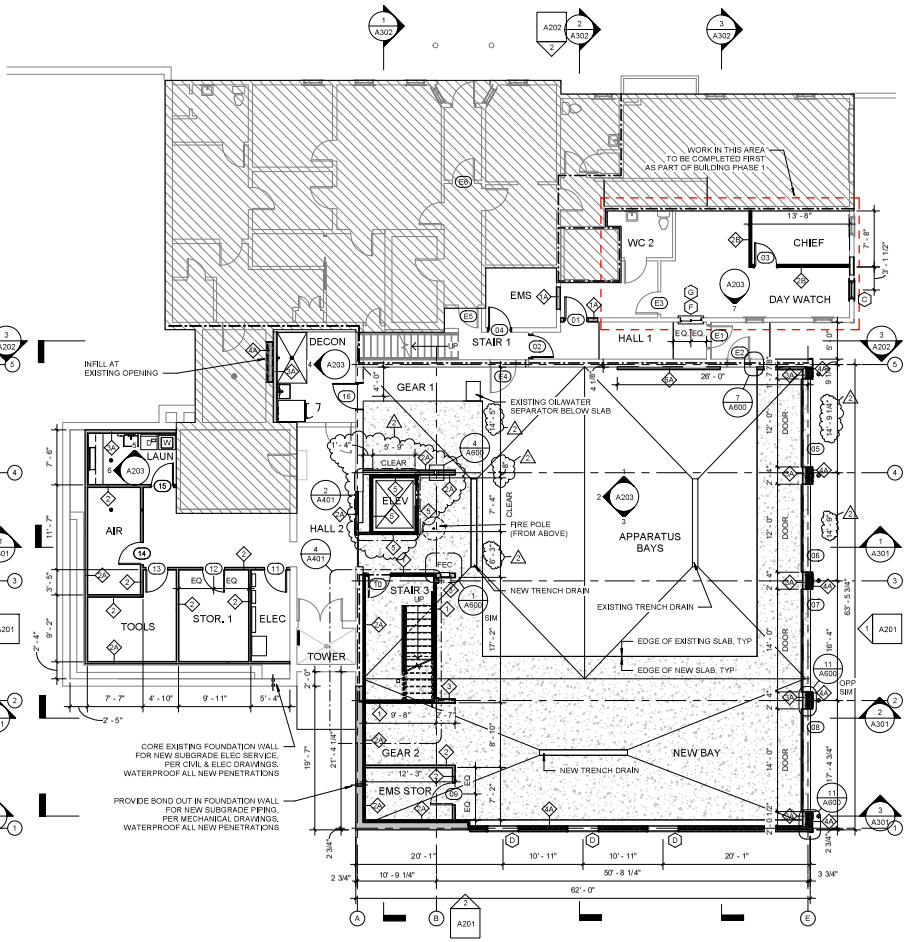
DEMO PLANS

DATE	06/25/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

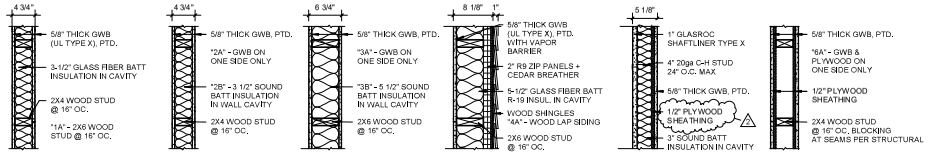
A102



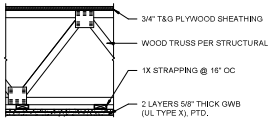
2 LEVEL 2 - PROPOSED
1/8" = 1'-0"



1 LEVEL 1 - PROPOSED
1/8" = 1'-0"



3 WALL TYPES
1" = 1'-0"



NEW 1-HR RATED CEILING ASSEMBLY UL #L542

WALL TYPE KEY

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW WALL

BUILDING AREA LEGEND

- EXISTING TO REMAIN
- NEW/RENOVATED

REV.	DESCRIPTION	DATE
1	ADDENDA	7/7/2022
2	ADDENDA & ELL-WALL	8/30/2022

CONSTRUCTION SET
6/6/2022

N

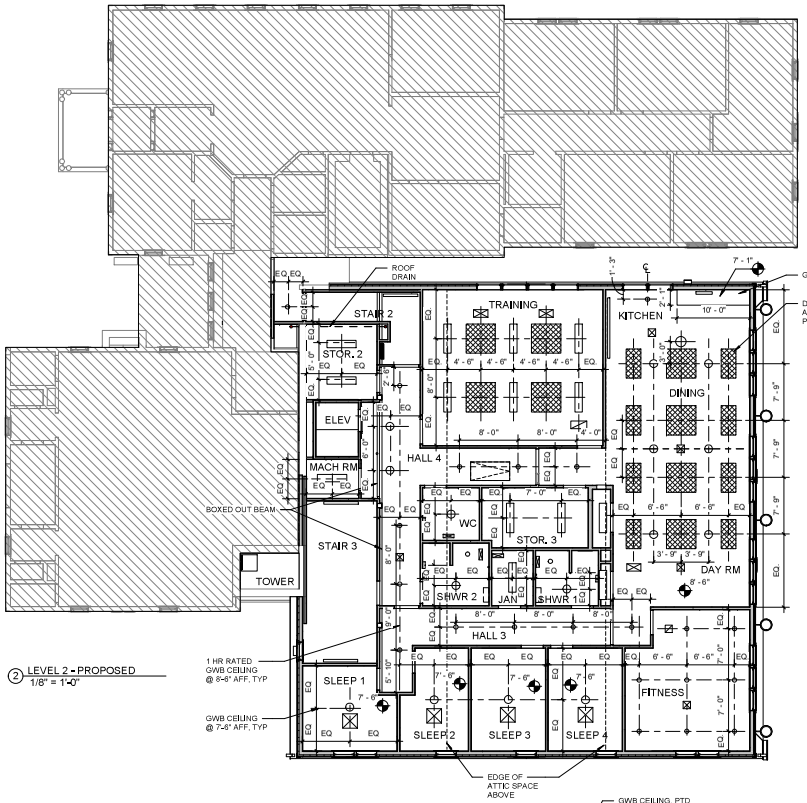
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

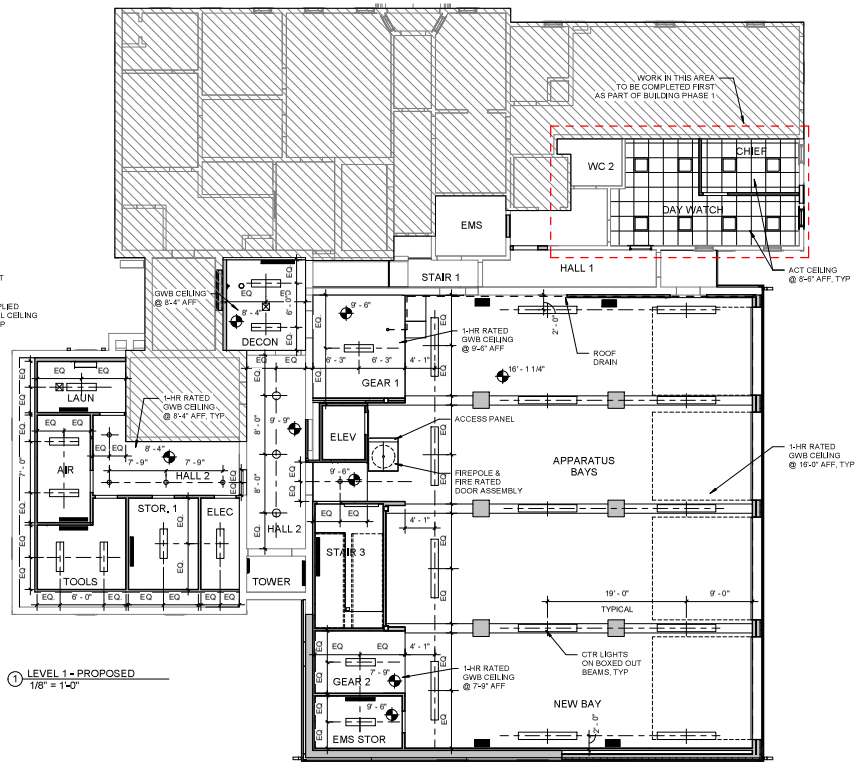
FLOOR PLANS

DATE	06/25/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

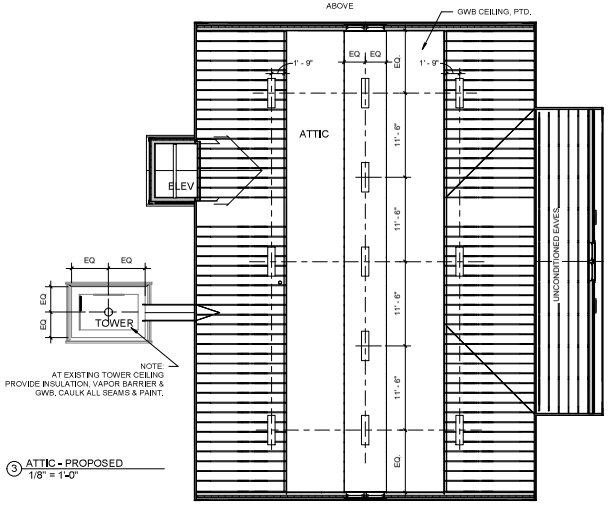
A103



2 LEVEL 2 - PROPOSED
1/8" = 1'-0"



1 LEVEL 1 - PROPOSED
1/8" = 1'-0"



3 ATTIC - PROPOSED
1/8" = 1'-0"

LIGHTING KEY

- 2x4 SURFACE
- 1x4 or 1x8 SURFACE
- 2x2 RECESSED
- 13" SURFACE
- 7" SURFACE

SEE ELEC DWG'S FOR FIXTURE SPECS

HVAC KEY

- CLG CASSETTE
- CLG REGISTER
- SMOKE EATER
- HYDRONIC UNIT
- FINTUBE HEATER

SEE MECH DWG'S FOR UNIT SPECS

WALL TYPE KEY

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW WALL

BUILDING AREA LEGEND

- EXISTING TO REMAIN
- NEW/RENOVATED

REV.	DESCRIPTION	DATE
1	ADDENDA	7/21/22
2	CMP & BLDG PERMIT	8/30/22

CONSTRUCTION SET
6/6/2022

N

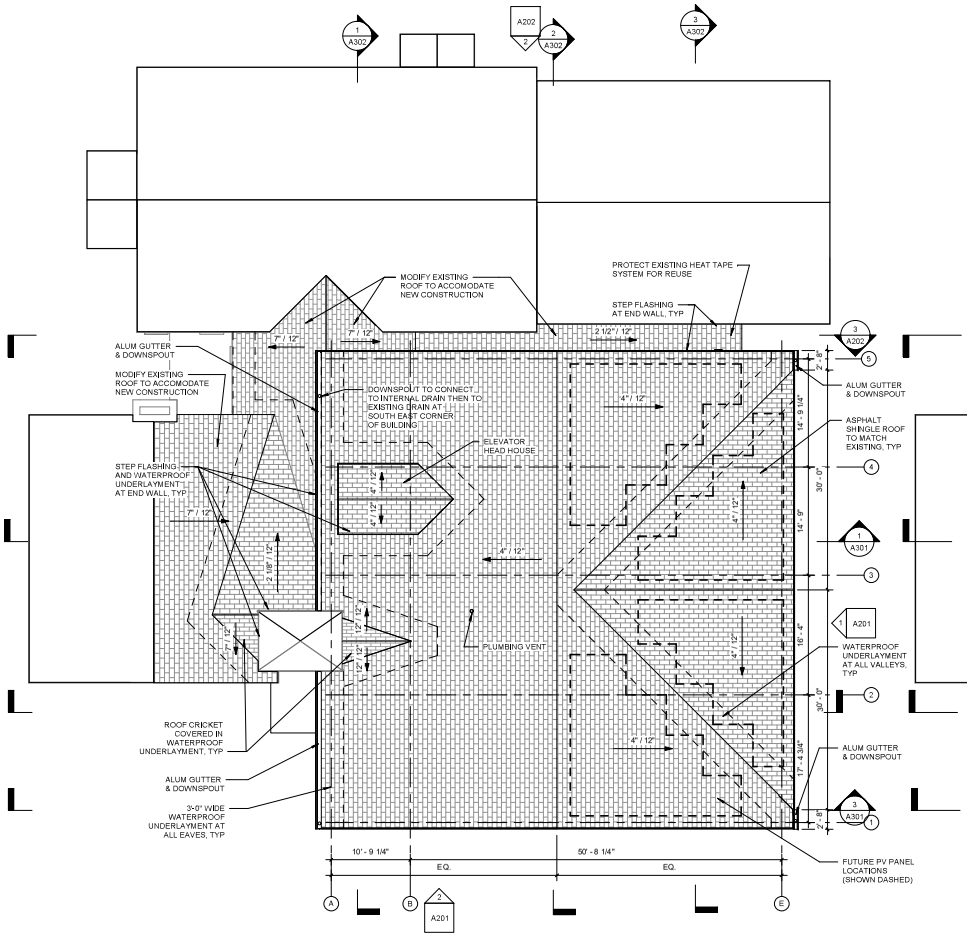
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

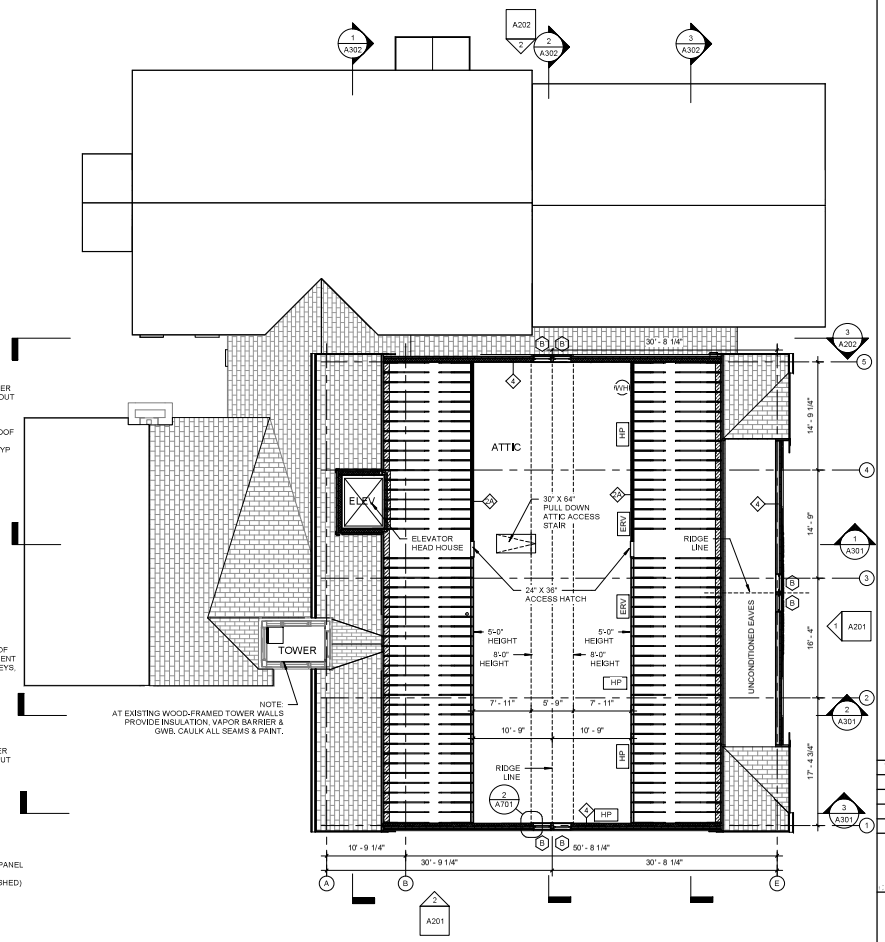
REFLECTED CEILING PLANS

DATE	07/01/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

A104



2 ROOF - PROPOSED
1/8" = 1'-0"



1 ATTIC - PROPOSED
1/8" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDUM	7/21/22
2	CODE & ELEVATOR	8/30/22

CONSTRUCTION SET
6/6/2022

N

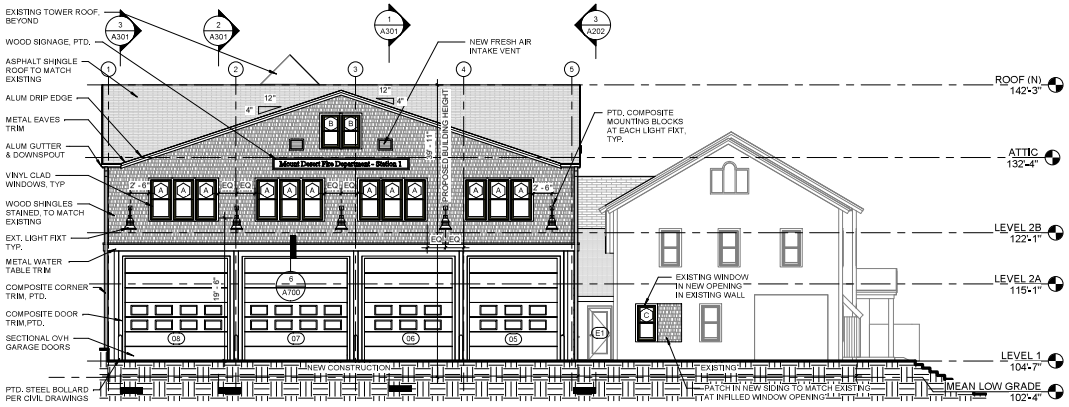
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

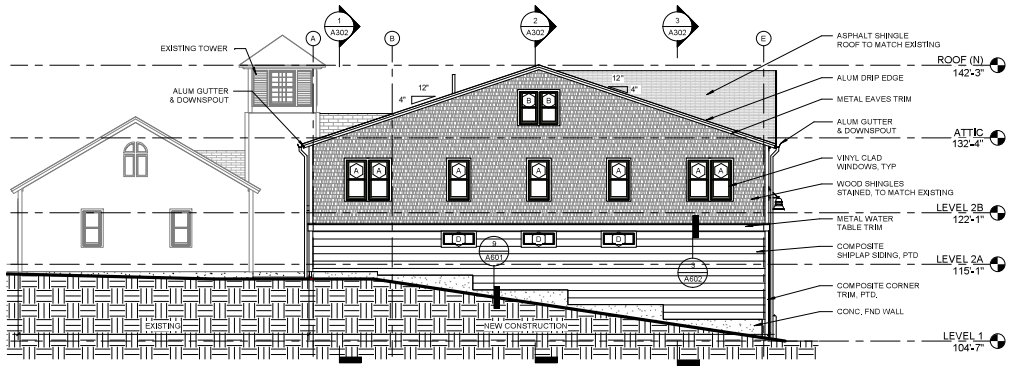
ROOF & ATTIC PLANS

DATE	06/25/21
SCALE	1/8" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

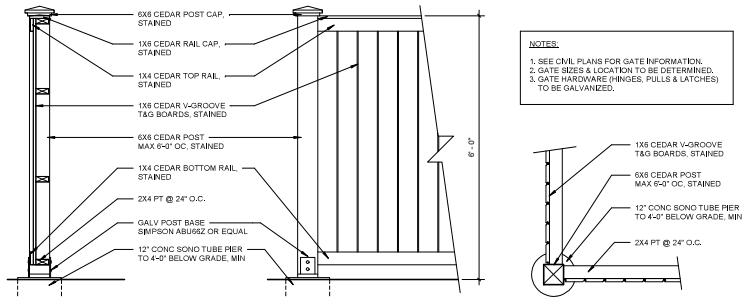
A105



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



2 WEST ELEVATION - PROPOSED
1/8" = 1'-0"



NOTES:

1. SEE CIVIL PLANS FOR GATE INFORMATION.
2. GATE SIZES & LOCATION TO BE DETERMINED.
3. GATE HARDWARE (HINGES, PULLS & LATCHES) TO BE GALVANIZED.

SECTION ELEVATION PLAN

3 FENCE DETAIL
3/4" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDA	7/7/22
2	DMG & ELLSWORTH	8/30/22

CONSTRUCTION SET
6/6/2022

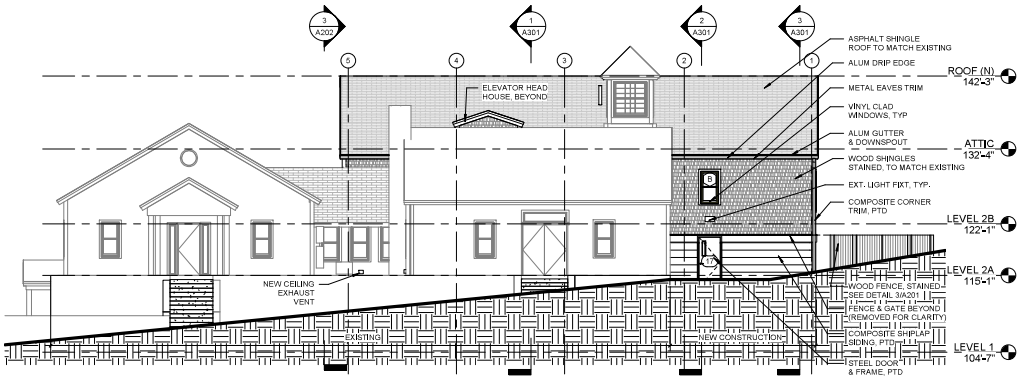
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department Station 1 Renovation

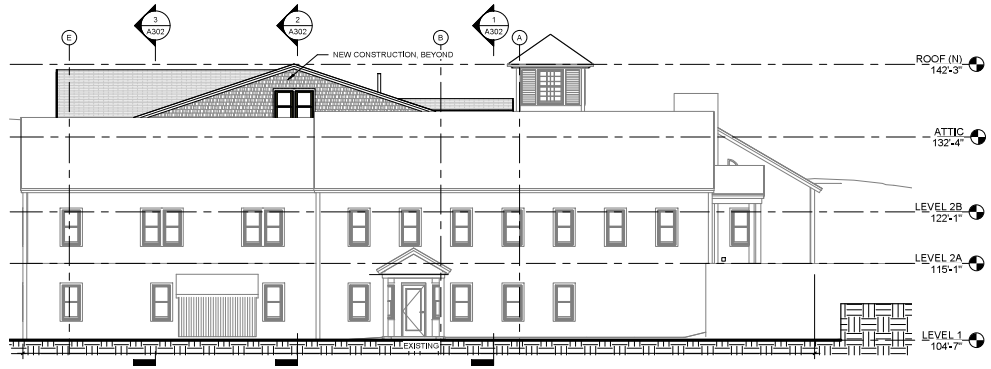
EXTERIOR ELEVATIONS

DATE	06/25/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

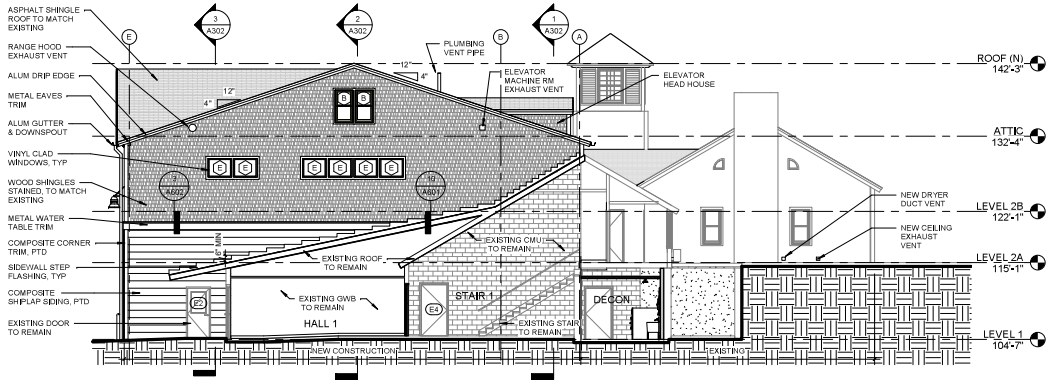
A201



1 NORTH ELEVATION - PROPOSED
1/8" = 1'-0"



2 EAST ELEVATION - PROPOSED
1/8" = 1'-0"



3 SECTION 1
1/8" = 1'-0"

REV.	DESCRIPTION	DATE
	ADDENDA	12/7/22
2	CMS & ELEVATOR	4/20/23

CONSTRUCTION SET
6/6/2022

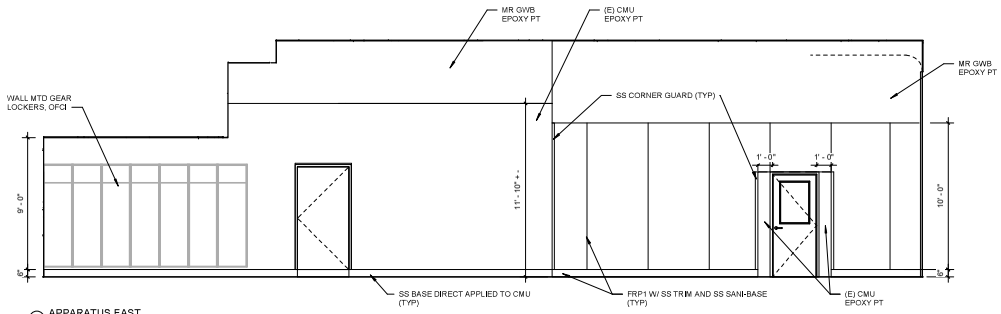
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

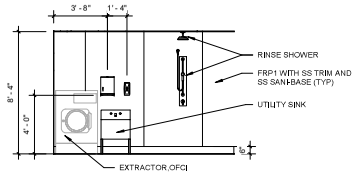
EXTERIOR ELEVATIONS

DATE	07/01/21
SCALE	1/8" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

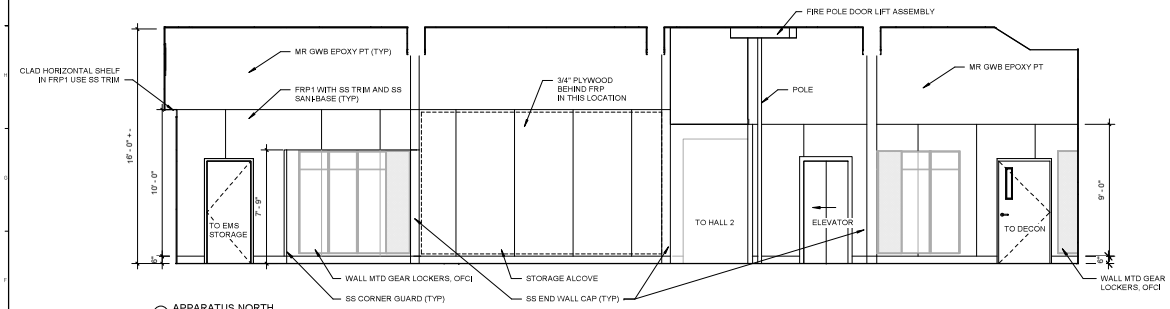
A202



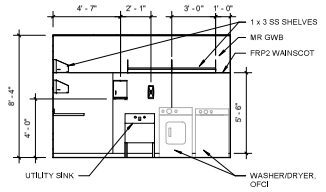
1 APPARATUS EAST
1/4" = 1'-0"



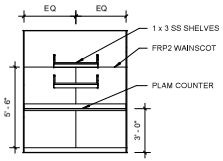
4 DECON NORTH
1/4" = 1'-0"



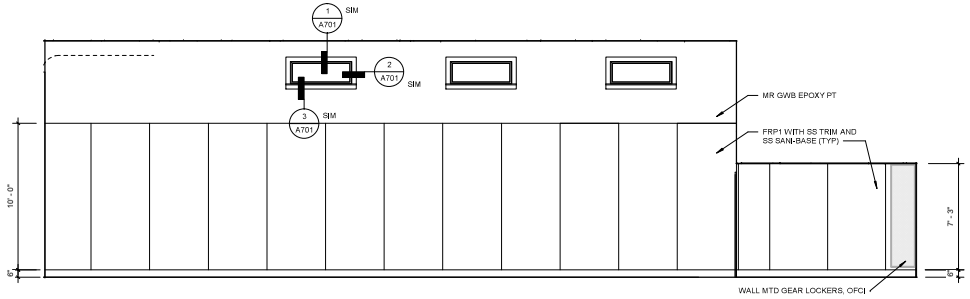
2 APPARATUS NORTH
1/4" = 1'-0"



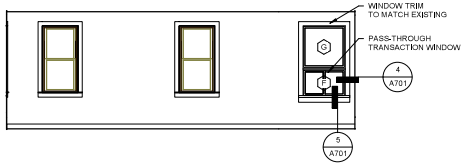
5 LAUNDRY EAST
1/4" = 1'-0"



6 LAUNDRY WEST
1/4" = 1'-0"



3 APPARATUS WEST
1/4" = 1'-0"



7 DAY WATCH WEST
1/4" = 1'-0"

FINISH LEGEND

APC	Acoustic Panel Ceiling, Tegular
ACT	Direct Apply Acoustic Ceiling Panels
RSF1	Resilient Sheet Flooring Linoleum
RSF2	Resilient Sheet Flooring Slip Resistant Sheet Vinyl
RSF3	Resilient Sheet Flooring Sheet Vinyl
RFT1	Resilient Tile Flooring Rubber Raised Disc
RFT2	Resilient Tile Flooring Sport Floor
RT1	Treads and Risers Rubber Raised Disc
LVT	Luxury Vinyl Tile
RWB1	Resilient Wall Base Millworks Reveal
RWB2	Resilient Wall Base Traditional Cove
COVE	Stainless Steel Sani-Base
PT1	Paint Satin Latex
PT2	Paint Semi-Gloss Latex
EPT	Epoxy Paint
EPOXY	Poured Epoxy Floor
ST1	Stain and Clear Finish
RWP1	Rigid Door Protection Kick Plates and Escutcheons
RWP2	Rigid Wall Protection Corner Guards
FRP1	Fiberglass Reinforced Panel with Stainless Steel Trim and Base
FRP2	Fiberglass Reinforced Panel with matching horizontal trim and butt vertical joints.
SSURFACE1	Corian Solid Surface
SSURFACE2	Swanstone Solid Surface
PLAM	Plastic Laminate

FINISH NOTES:

1. See sheet A702 FURNISHING PLAN & FINISH SCHEDULE for additional information.

2. See Specification for additional information.

REV.	DESCRIPTION	DATE
	ADDENDA	7/21/22
2	ADD'S & ELEV'S	8/30/22

CONSTRUCTION SET
6/6/2022

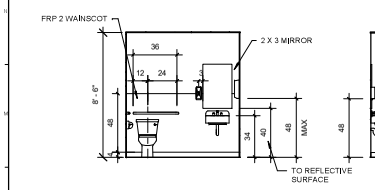
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

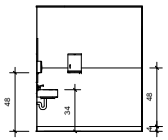
INTERIOR ELEVATIONS

DATE	07/13/21
SCALE	1/4" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

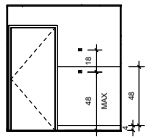
A203



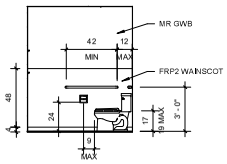
1 WC WEST
1/4" = 1'-0"



2 WC NORTH
1/4" = 1'-0"

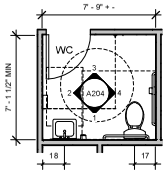


3 WC EAST
1/4" = 1'-0"

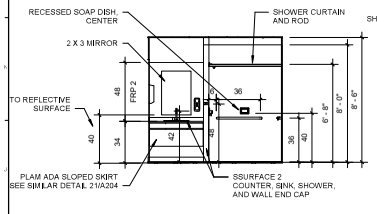


4 WC SOUTH
1/4" = 1'-0"

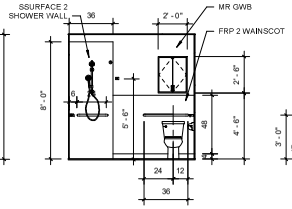
NOTE:
1. ENLARGED PLAN DIMENSIONS ARE FROM FACE OF FINISH.
2. SEE SHEET A103 FOR ADDITIONAL DIMENSIONS



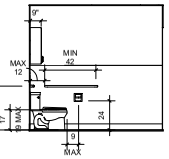
5 ENLARGED BATHROOM
1/4" = 1'-0"



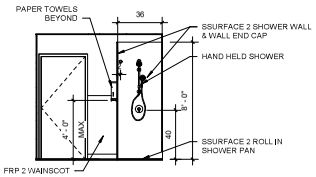
6 SHOWER 2 EAST
1/4" = 1'-0"



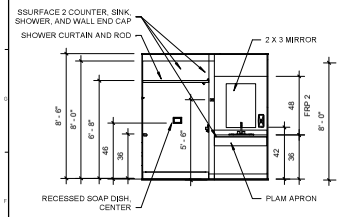
7 SHOWER 2 SOUTH
1/4" = 1'-0"



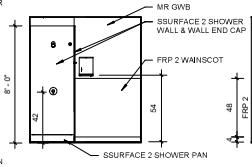
8 SHOWER 2 WEST
1/4" = 1'-0"



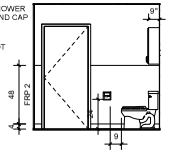
9 SHOWER 2 NORTH
1/4" = 1'-0"



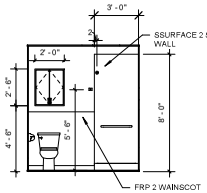
10 SHOWER 1 EAST
1/4" = 1'-0"



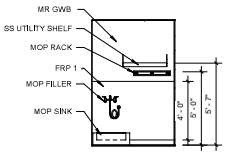
11 SHOWER 1 SOUTH
1/4" = 1'-0"



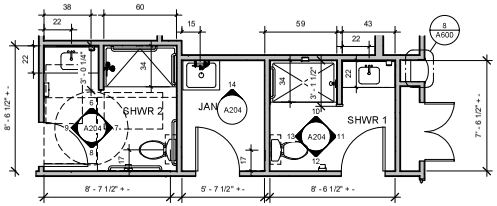
12 SHOWER 1 WEST
1/4" = 1'-0"



13 SHOWER 1 NORTH
1/4" = 1'-0"

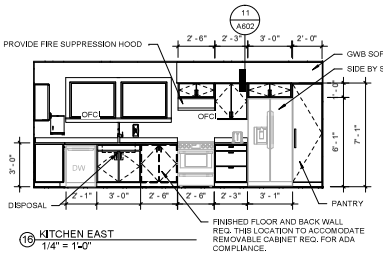


14 JANITOR EAST
1/4" = 1'-0"

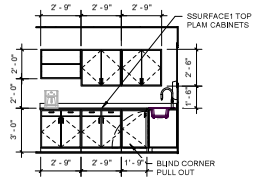


15 ENLARGED SHOWERS & JANITOR
1/4" = 1'-0"

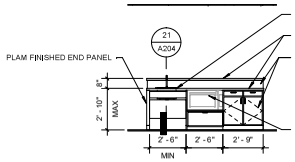
NOTE:
1. ENLARGED PLAN DIMENSIONS ARE FROM FACE OF FINISH.
2. SEE SHEET A103 FOR ADDITIONAL DIMENSIONS
3. SEE PLUMBING SHEET FOR SSURFACE 2 SHOWER & SINK INFO.



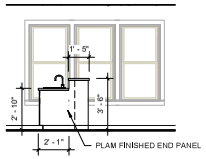
16 KITCHEN EAST
1/4" = 1'-0"



17 KITCHEN NORTH
1/4" = 1'-0"

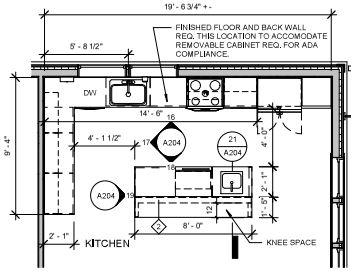


18 ISLAND WEST
1/4" = 1'-0"

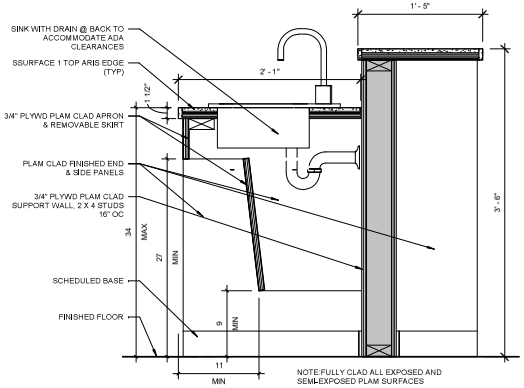


19 ISLAND SOUTH
1/4" = 1'-0"

NOTE:
1. ENLARGED PLAN DIMENSIONS ARE FROM FACE OF FINISH.
2. SEE SHEET A103 FOR ADDITIONAL DIMENSIONS



20 ENLARGED KITCHEN
1/4" = 1'-0"



21 ISLAND @ ADA SINK & SKIRT
1 1/2" = 1'-0"

FINISH LEGEND

APC	Acoustic Panel Ceiling, Tegular
ACT	Direct Apply Acoustic Ceiling Panels
RSF1	Resilient Sheet Flooring Linoleum
RSF2	Resilient Sheet Flooring Slip Resistant Sheet Vinyl
RSF3	Resilient Sheet Flooring Sheet Vinyl
RFT1	Resilient Tile Flooring Rubber Raised Disc
RFT2	Resilient Tile Flooring Sport Floor
RT1	Treads and Risers Rubber Raised Disc
LVT	Luxury Vinyl Tile
RWB1	Resilient Wall Base Millworks Reveal
RWB2	Resilient Wall Base Traditional Cove
COVE	Stainless Steel Sani-Base
PT1	Paint Satin Latex
PT2	Paint Semi-Gloss Latex
EPT	Epoxy Paint
EPOXY	Poured Epoxy Floor
ST1	Stain and Clear Finish
RWP1	Rigid Door Protection Kick Plates and Escutcheons
RWP2	Rigid Wall Protection Corner Guards
FRP1	Fiberglass Reinforced Panel with Stainless Steel Trim and Base
FRP2	Fiberglass Reinforced Panel with matching horizontal trim and butt vertical joints.
SSURFACE1	Corian Solid Surface
SSURFACE2	Swanstone Solid Surface
PLAM	Plastic Laminate

FINISH NOTES:

1. See sheet A702 FURNISHING PLAN & FINISH SCHEDULE for additional information.

2. See Specification for additional information.

REV.	DESCRIPTION	DATE
1	ADDENDUM	7/21/22
2	ADDS & CLARIFICATIONS	8/30/22

CONSTRUCTION SET
6/6/2022

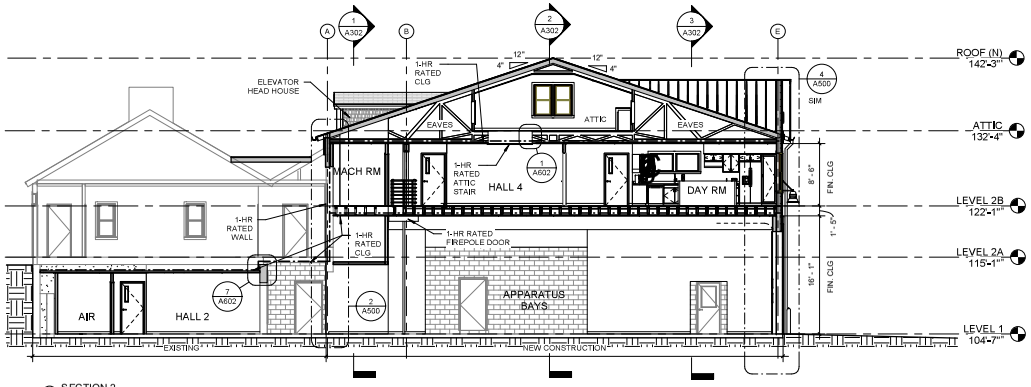
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

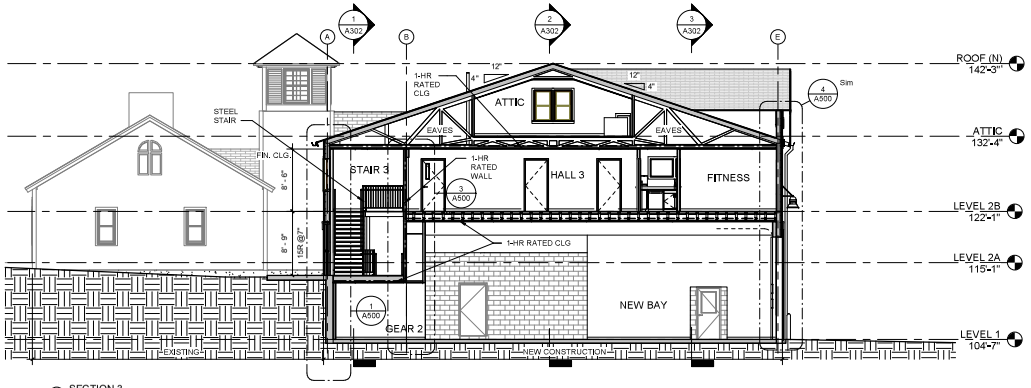
INTERIOR ELEVATIONS

DATE	07/01/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

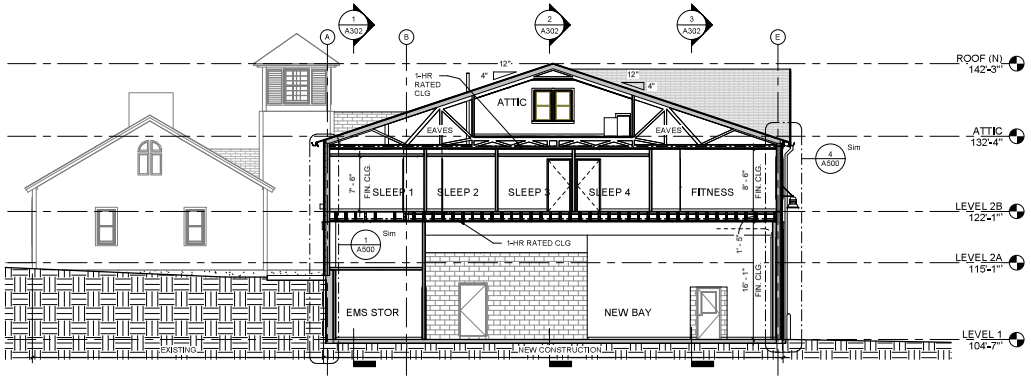
A204



1 SECTION 2
1/8" = 1'-0"



2 SECTION 3
1/8" = 1'-0"



3 SECTION 4
1/8" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDUM	7/7/2022
2	BID & ELLSWORTH	8/30/2022

CONSTRUCTION SET
6/6/2022

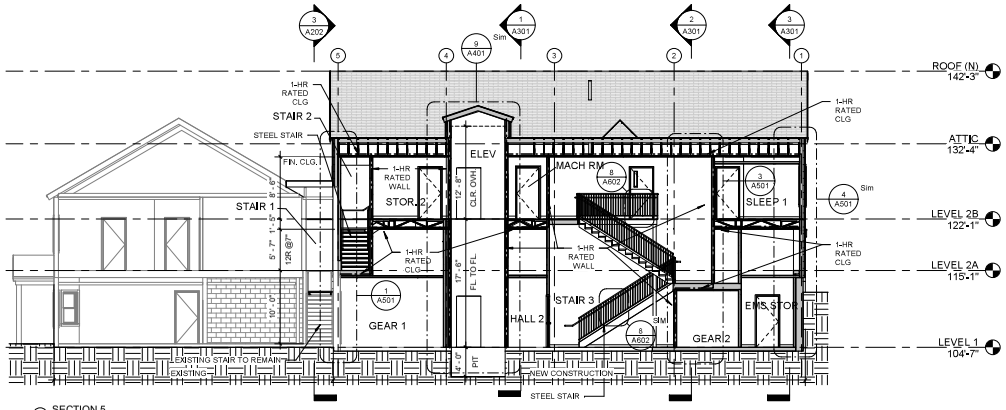
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

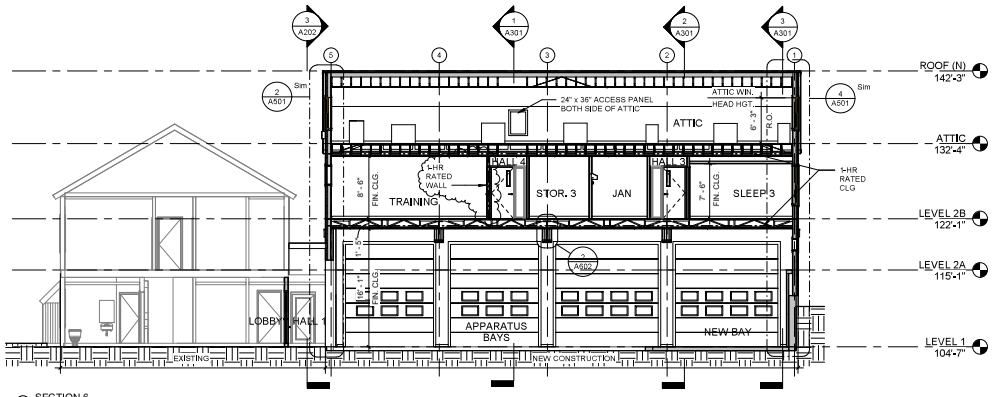
BUILDING SECTIONS

DATE	06/30/21
SCALE	1/8" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

A301



1 SECTION 5
1/8" = 1'-0"



2 SECTION 6
1/8" = 1'-0"

3 SECTION 7
1/8" = 1'-0"

REV.	DESCRIPTION	DATE
	ADDENDA	07/07/22
2	DMG & ELLSWORTH	8/30/22

CONSTRUCTION SET
6/6/2022

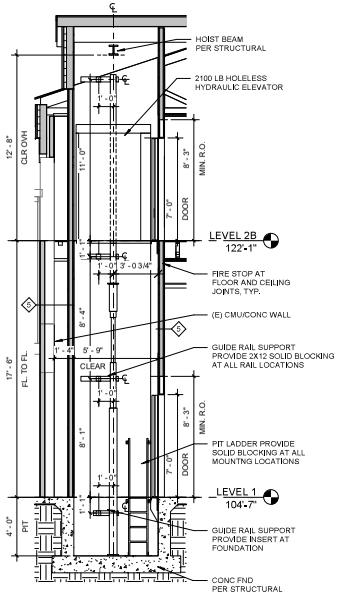
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

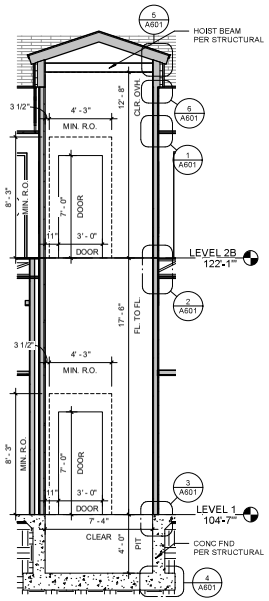
BUILDING SECTIONS

DATE	07/01/21
SCALE	1/8" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

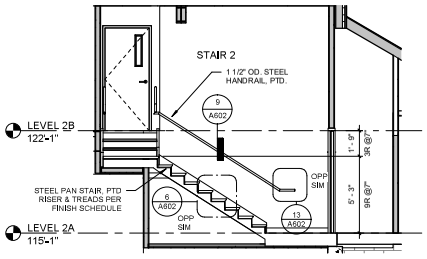
A302



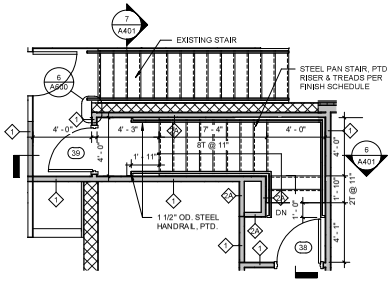
10 ELEVATOR - SECTION 2
1/4" = 1'-0"



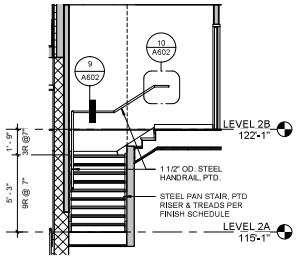
9 ELEVATOR - SECTION 1
1/4" = 1'-0"



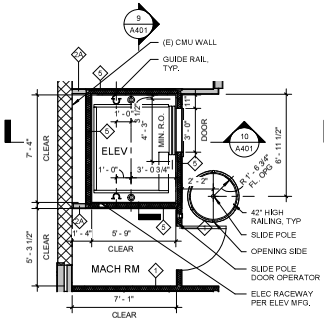
6 STAIR 2 - SECTION 1
1/4" = 1'-0"



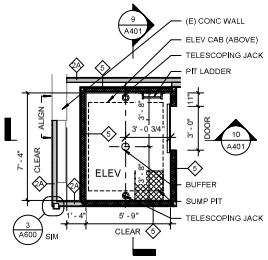
1 STAIR 2 - LEVEL 2
1/4" = 1'-0"



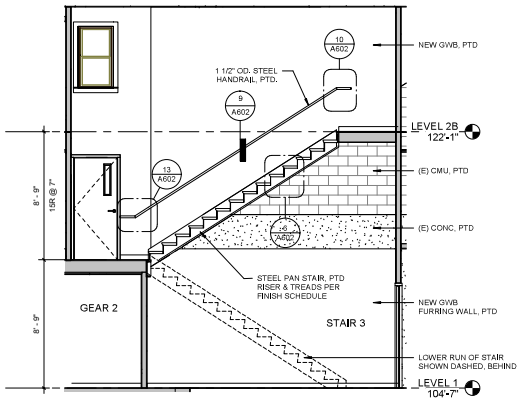
7 STAIR 2 - SECTION 2
1/4" = 1'-0"



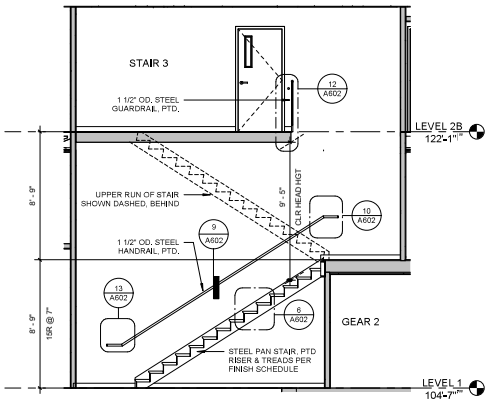
3 ELEVATOR - LEVEL 2
1/4" = 1'-0"



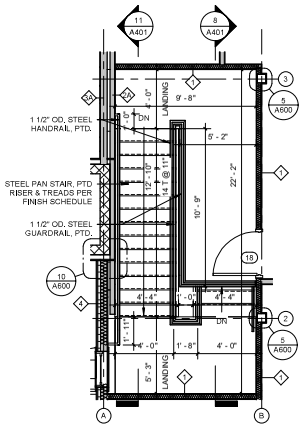
2 ELEVATOR 2 - LEVEL 1
1/4" = 1'-0"



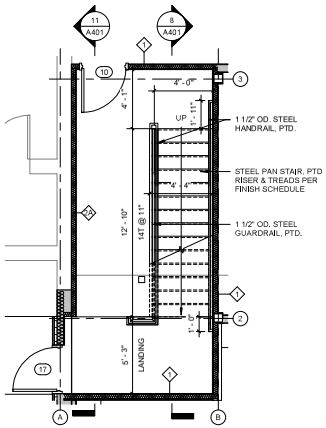
11 STAIR 3 - SECTION 2
1/4" = 1'-0"



8 STAIR 3 - SECTION 1
1/4" = 1'-0"



5 STAIR 3 - LEVEL 2
1/4" = 1'-0"



4 STAIR 3 - LEVEL 1
1/4" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDA	7/21/22
2	CODE & ELEVATOR	8/30/22

CONSTRUCTION SET
6/6/2022

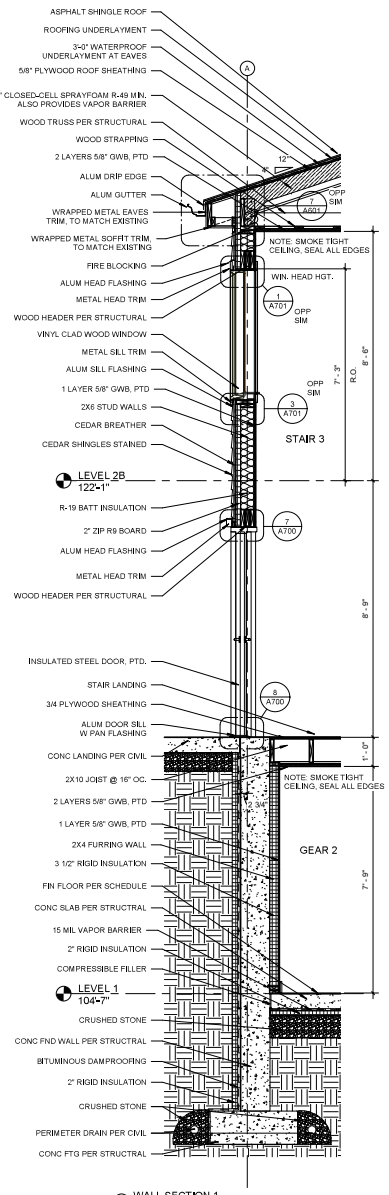
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

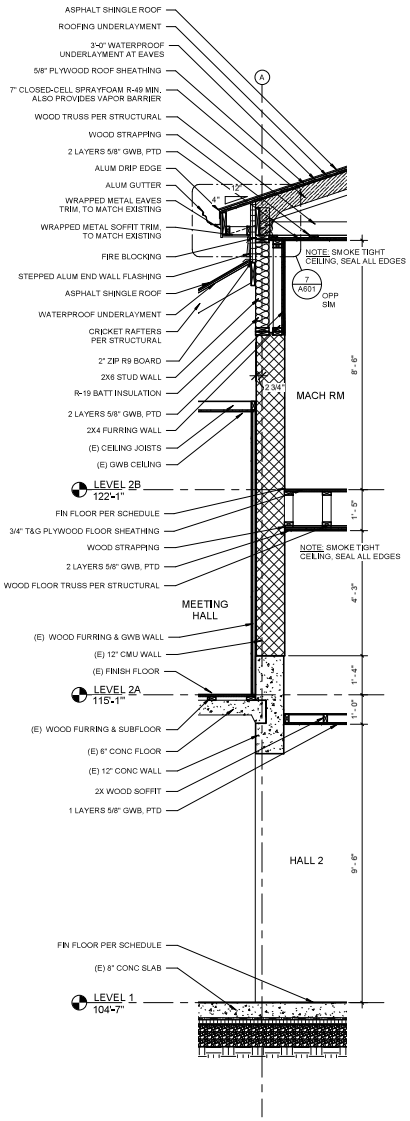
ENLARGED PLANS
STAIRS & ELEVATOR

DATE	08/25/21
SCALE	1/4" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

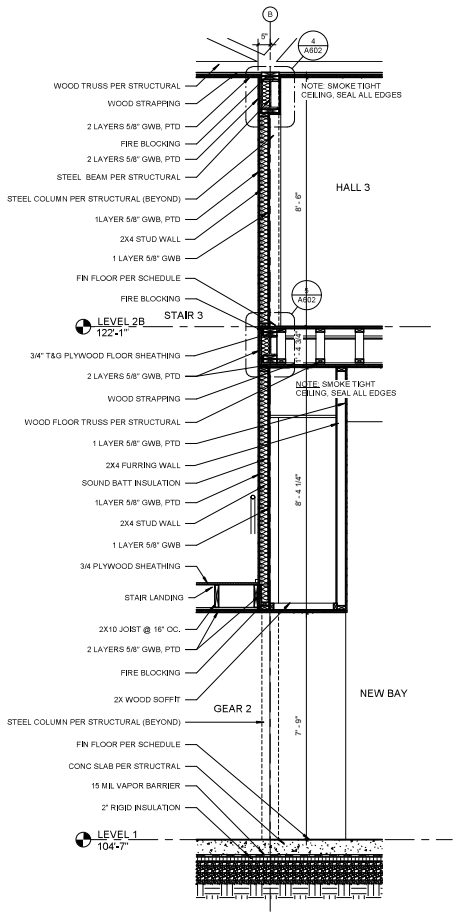
A401



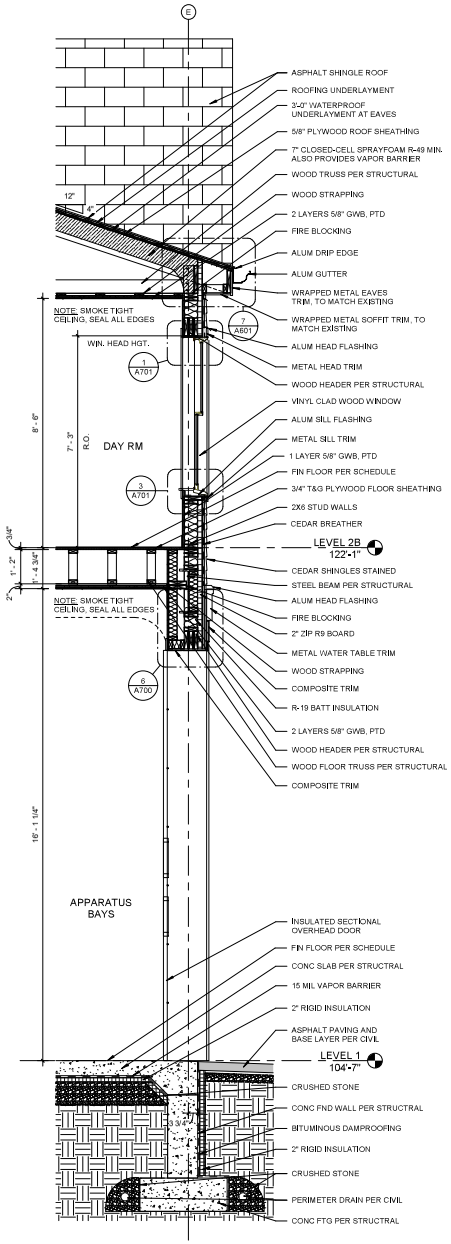
1 WALL SECTION 1
1/2" = 1'-0"



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



3 WALL SECTION 3
1/2" = 1'-0"



4 WALL SECTION 4
1/2" = 1'-0"

PROVIDE AIRTIGHT APPROACH FOR CONTINUOUS AIR BARRIER

1. WOOD FRAMED FLOORS
- SEAL THE RIM JOIST TO MINIMIZE AIR CURRENTS AROUND FLOOR INSULATION. ALSO SEAL RIM JOISTS FOR MULTISTORY CONSTRUCTION.

2. SLAB FLOORS
- SEAL EXPANSION JOINTS AND PENETRATIONS WITH A CONCRETE SEALANT SUCH AS ONE-PART URETHANE.

3. EXTERIOR WALLS
- INSTALL GASKETS OR CAULK AT THE TOP AND BOTTOM PLATES OF EXTERIOR WALLS SO THE WHEN DRYWALL IS INSTALLED IT COMPRESSES SEALANT TO FORM AN AIRTIGHT SEAL AGAINST FRAMING.
- USE DRYWALL JOINT COMPOUND OR CAULK TO SEAL THE SEAM BETWEEN DRYWALL AND ELECTRICAL BOXES. INSTALL GASKETS BEHIND COVER PLATES.

4. PARTITION WALLS
- SEAL THE DRYWALL AT EITHER THE TOP OR BOTTOM PLATE OF PARTITION WALLS.
- SEAL THE DUCTWORK AT THE INTERSECTION OF PARTITION AND EXTERIOR WALLS.
- SEAL PENETRATIONS THROUGH THE TOP AND BOTTOM PLATES FOR PLUMBING, WIRING AND DUCTS.
-PROVIDE FIRE BLOCKING WHERE RATED INTERIOR WALLS MEET EXTERIOR WALLS TO MAINTAIN INTERGRITY OF VAPOR BARRIER.

5. WINDOWS AND DOORS
- SEAL DRYWALL EDGES TO EITHER FRAMING OR JAMBS FOR WINDOWS AND DOORS.
- FILL ROUGH OPENING SPRAY FOAM INSULATION.
- CAULK WINDOW AND DOOR TRIM TO DRYWALL WITH SPECIFIED SEALANT.

6. CEILING
- FOLLOW STANDARD FINISHING TECHNIQUES TO SEAL THE JUNCTION BETWEEN THE CEILING AND WALLS.
- WHENEVER POSSIBLE, USE CONTINUOUS DRYWALL SHEETS FOR THE CEILING AND WALLS IN ORDER TO MINIMIZE JOINTS THAT NEED TO BE SEALED.
- SEAL ALL PENETRATIONS IN THE CEILING FOR WIRING, PLUMBING, DUCTS, ATTIC ACCESS OPENINGS, AND WHOLE HOUSE FANS.
-PROVIDE FIRE BLOCKING WHERE RATED CEILINGS MEET EXTERIOR WALLS TO MAINTAIN INTERGRITY OF VAPOR BARRIER.

REV.	DESCRIPTION	DATE
1	ADDENDA	7/2/22
2	DMG & ELLSWORTH	8/30/22

CONSTRUCTION SET
6/6/2022

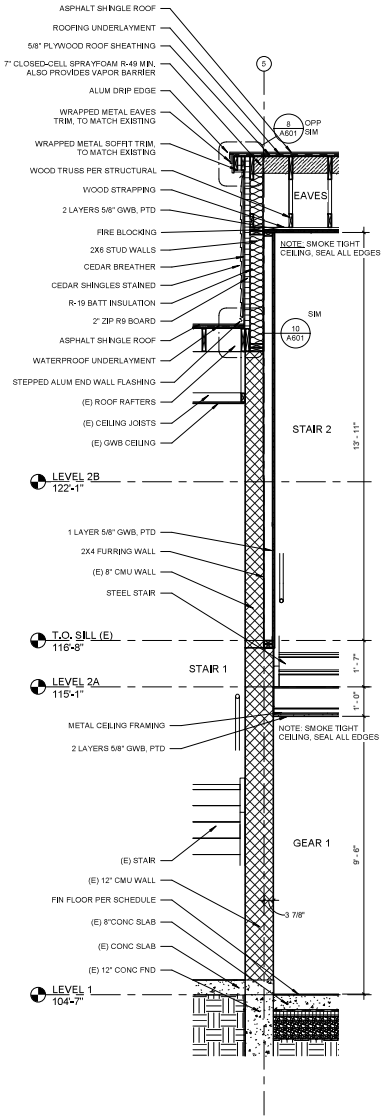
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

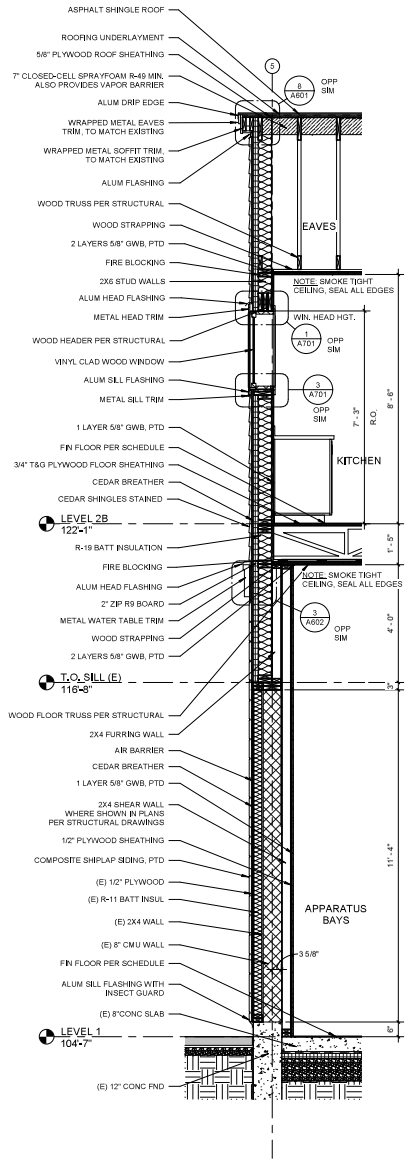
WALL SECTIONS

DATE	07/01/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

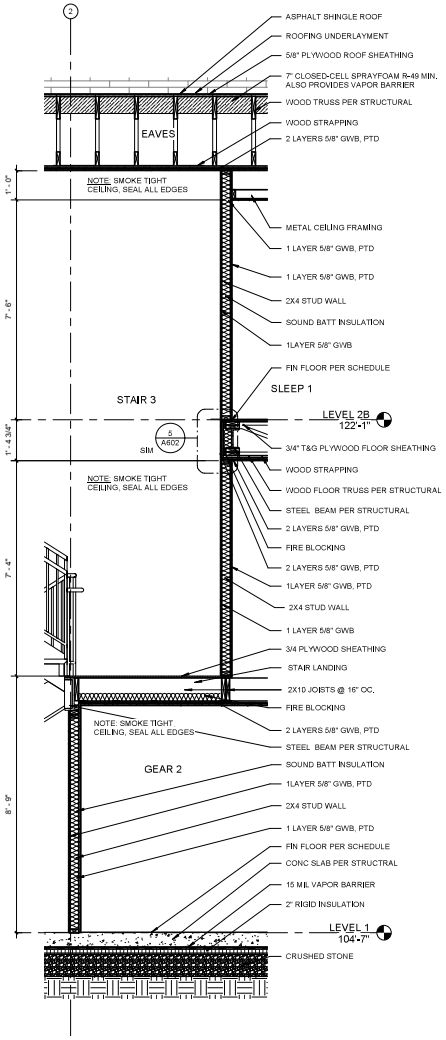
A500



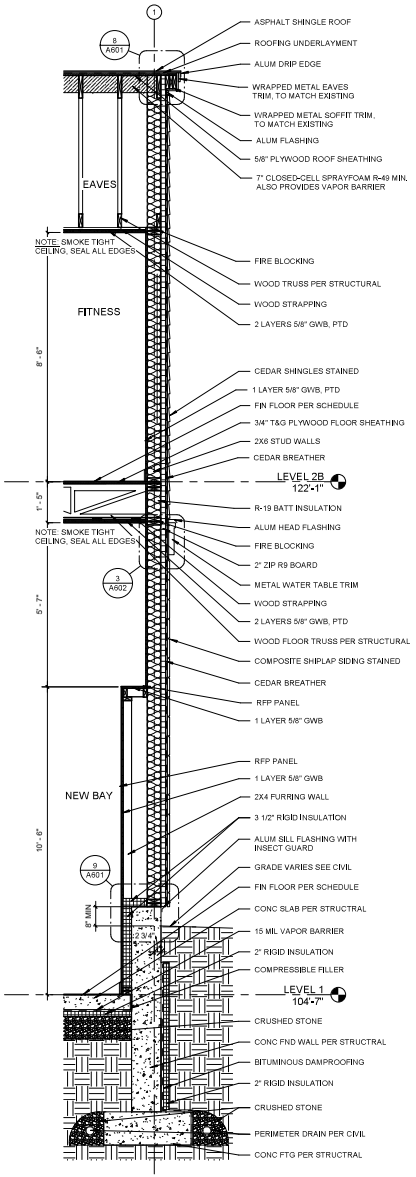
1 WALL SECTION 5
1/2" = 1'-0"



2 WALL SECTION 6
1/2" = 1'-0"



3 WALL SECTION 7
1/2" = 1'-0"



4 WALL SECTION 8
1/2" = 1'-0"

PROVIDE AIRTIGHT APPROACH FOR CONTINUOUS AIR BARRIER

1. WOOD FRAMED FLOORS
- SEAL THE RIM JOIST TO MINIMIZE AIR CURRENTS AROUND FLOOR INSULATION. ALSO SEAL RIM JOISTS FOR MULTISTORY CONSTRUCTION.

2. SLAB FLOORS
- SEAL EXPANSION JOINTS AND PENETRATIONS WITH A CONCRETESEALANT SUCH AS ONE-PART URETHANE.

3. EXTERIOR WALLS
- INSTALL GASKETS OR CAULK AT THE TOP AND BOTTOM PLATES OF EXTERIOR WALLS SO THE WHEN DRYWALL IS INSTALLED IT COMPRESSES SEALANT TO FORM AN AIRTIGHT SEAL AGAINST FRAMING.
- USE DRYWALL JOINT COMPOUND OR CAULK TO SEAL THE SEAM BETWEEN DRYWALL AND ELECTRICAL BOXES. INSTALL GASKETS BEHIND COVERPLATES.

4. PARTITION WALLS
- SEAL THE DRYWALL AT EITHER THE TOP OR BOTTOM PLATE OF PARTITION WALLS.
- SEAL THE DUCTWORK AT THE INTERSECTION OF PARTITION AND EXTERIOR WALLS.
- SEAL PENETRATIONS THROUGH THE TOP AND BOTTOM PLATES FOR PLUMBING, WIRING AND DUCTS.

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- SEAL DRYWALL EDGES TO EITHER FRAMING OR JAMBS FOR WINDOWS AND DOORS.
- FILL ROUGH OPENING SPRAY FOAM INSULATION.
- CAULK WINDOW AND DOOR TRIM TO DRYWALL WITH SPECIFIED SEALANT.

6. CEILING
- FOLLOW STANDARD FINISHING TECHNIQUES TO SEAL THE JUNCTION BETWEEN THE CEILING AND WALLS.
- WHENEVER POSSIBLE, USE CONTINUOUS DRYWALL SHEETS FOR THE CEILING AND WALLS IN ORDER TO MINIMIZE JOINTS THAT NEED TO BE SEALED.
- SEAL ALL PENETRATIONS IN THE CEILING FOR WIRING, PLUMBING, DUCTS, ATTIC ACCESS OPENINGS, AND WHOLE HOUSE FANS.

REV.	DESCRIPTION	DATE
1	ADDENDA	12/7/22
2	SMS & ELEVATOR	1/20/23

CONSTRUCTION SET
6/6/2022

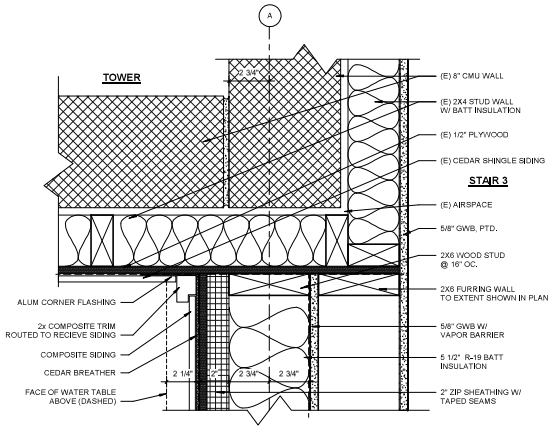
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

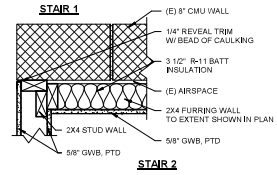
WALL SECTIONS

DATE	07/13/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
REVIEWED BY	CMH

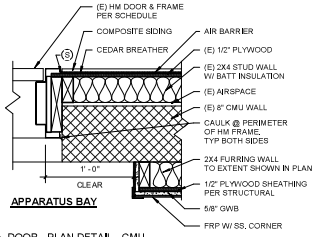
A501



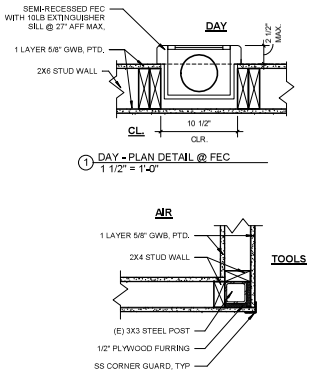
10 WALL - PLAN DETAIL @ TOWER CORNER
3" = 1'-0"



6 STAIR 2 - PLAN DETAIL @ CMU CORNER
1 1/2" = 1'-0"

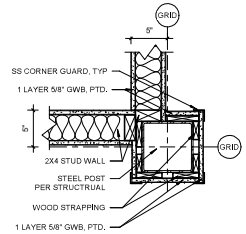


7 DOOR - PLAN DETAIL - CMU
1 1/2" = 1'-0"

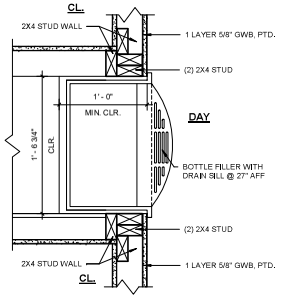


1 DAY - PLAN DETAIL @ FEC
1 1/2" = 1'-0"

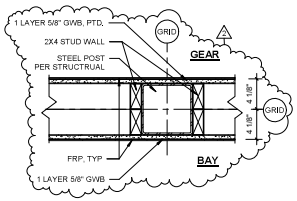
2 TOOLS - PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



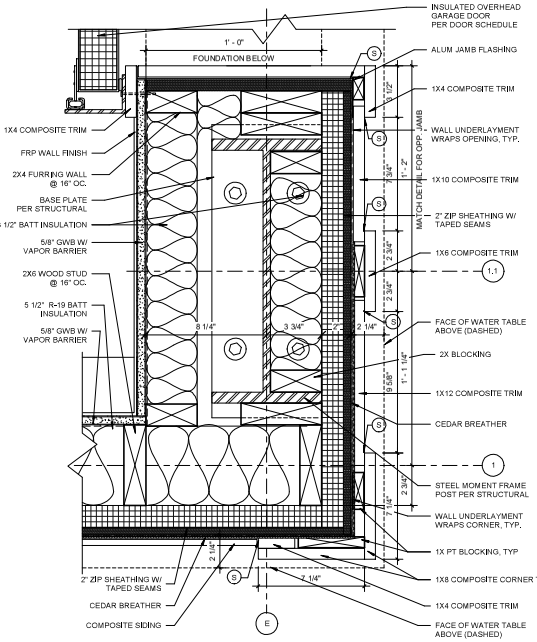
3 HALL - PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



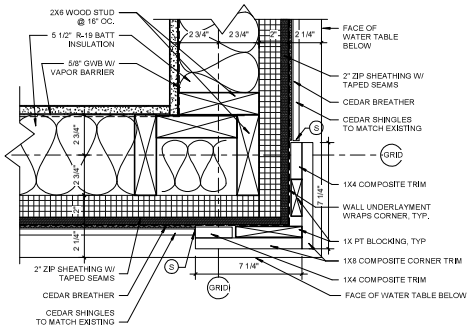
8 DAY - PLAN DETAIL @ BOTTLE FILLER
1 1/2" = 1'-0"



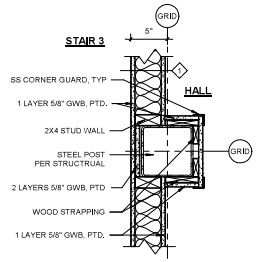
4 BAY - PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



11 DOOR - PLAN DETAIL @ COLUMN
3" = 1'-0"



9 WALL - PLAN DETAIL @ TYP. CORNER
3" = 1'-0"



5 STAIR 3 - PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDA	12/7/22
2	ADDENDA & CLARIFICATIONS	1/20/23

CONSTRUCTION SET
6/6/2022

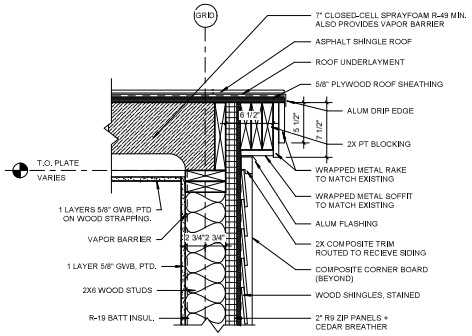
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

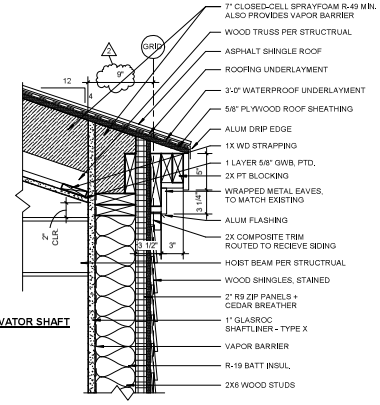
PLAN DETAILS

DATE	07/13/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

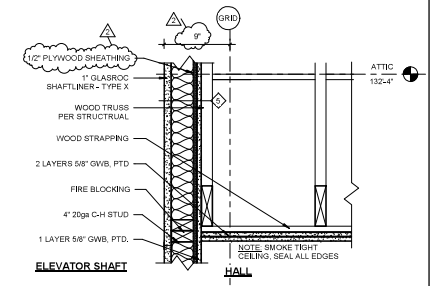
A600



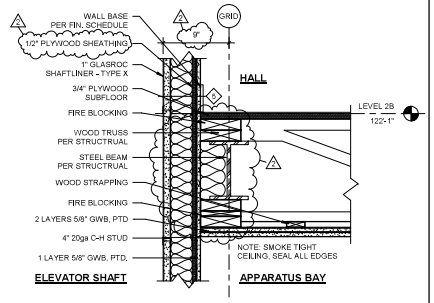
8 ROOF - SECTION DETAIL @ RAKE
1 1/2" = 1'-0"



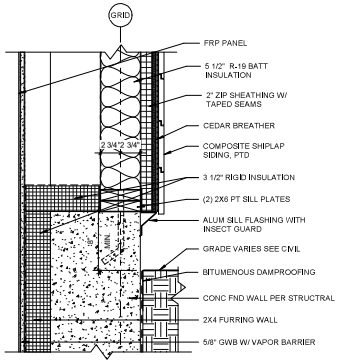
5 ELEVATOR - SECTION DETAIL @ HIGH ROOF
1 1/2" = 1'-0"



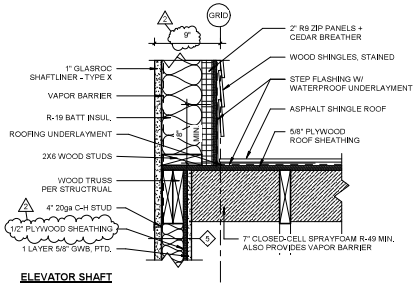
1 ELEVATOR - SECTION DETAIL @ CEILING
1 1/2" = 1'-0"



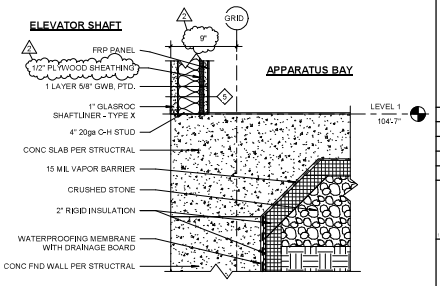
2 ELEVATOR - SECTION DETAIL @ 2ND LEVEL
1 1/2" = 1'-0"



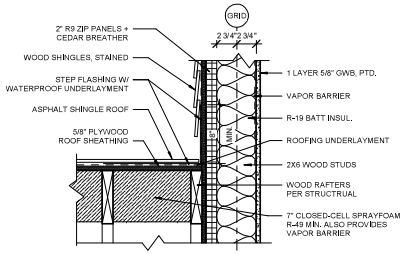
9 WALL - SECTION DETAIL @ GRADE
1 1/2" = 1'-0"



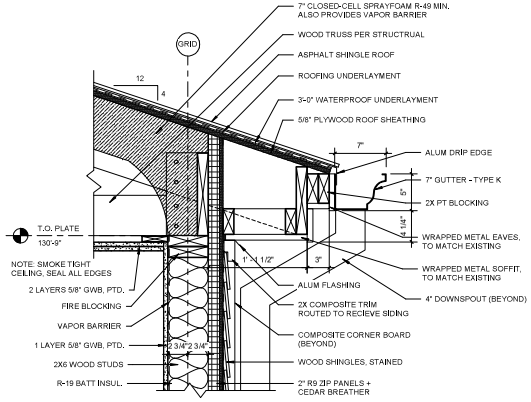
6 ELEVATOR - SECTION DETAIL @ LOW ROOF
1 1/2" = 1'-0"



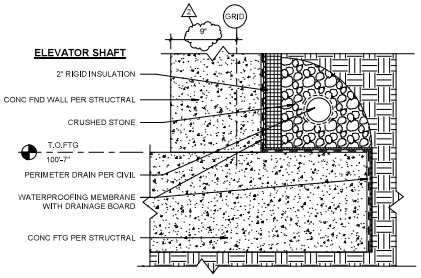
3 ELEVATOR - SECTION DETAIL @ 1ST LEVEL
1 1/2" = 1'-0"



10 ROOF - SECTION DETAIL @ LOW ROOF
1 1/2" = 1'-0"



7 ROOF - SECTION DETAIL @ EAVES
1 1/2" = 1'-0"



4 ELEVATOR - SECTION DETAIL @ FTG
1 1/2" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDA	12/7/22
2	ADDS & CLARIFICATIONS	1/20/23

CONSTRUCTION SET
6/6/2022

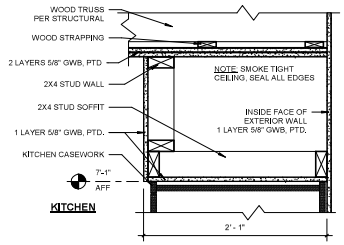
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

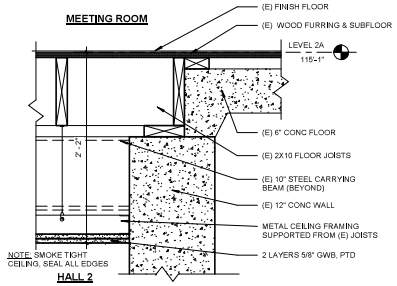
SECTION DETAILS

DATE	07/13/21
SCALE	1 1/2" = 1'-0"
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

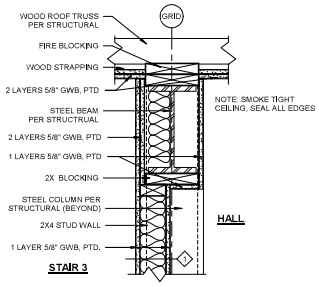
A601



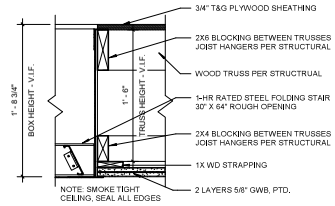
11 CEILING - SECTION DETAIL @ SOFFIT
1 1/2" = 1'-0"



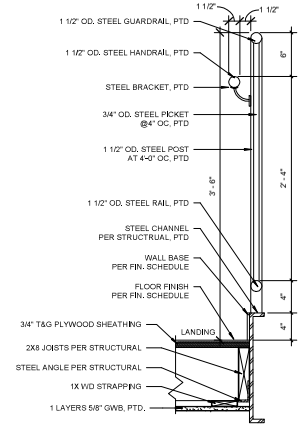
7 CEILING - SECTION DETAIL @ MEETING ROOM FL.
1 1/2" = 1'-0"



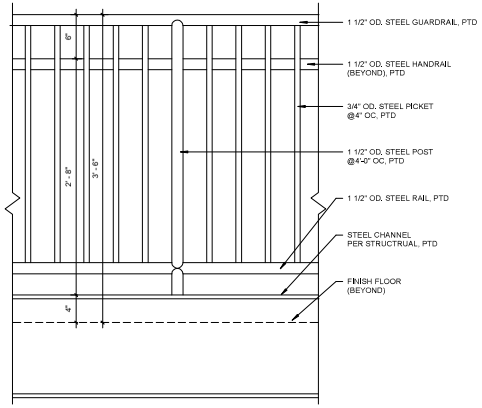
4 STAIR 3 - SECTION DETAIL @ CEILING BEAM
1 1/2" = 1'-0"



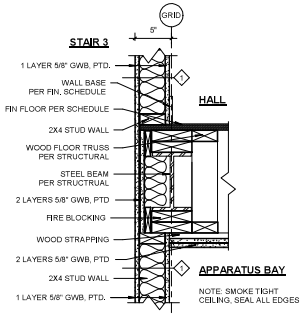
1 CEILING - SECTION DETAIL @ ATTIC STAIR
1 1/2" = 1'-0"



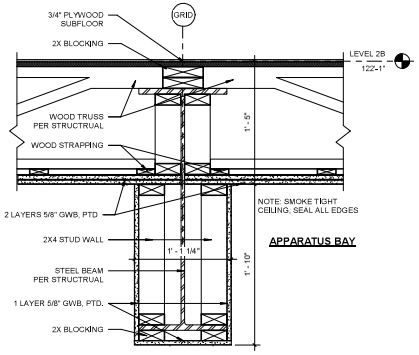
12 STAIR - TYP. GUARDRAIL - SECTION
1 1/2" = 1'-0"



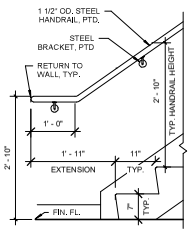
8 STAIR - TYP. GUARDRAIL - ELEVATION
1 1/2" = 1'-0"



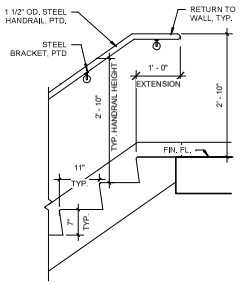
5 STAIR 3 - SECTION DETAIL @ FLOOR BEAM
1 1/2" = 1'-0"



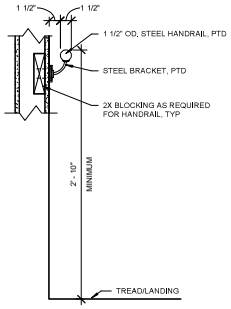
2 BAY - SECTION DETAIL @ BEAM
1 1/2" = 1'-0"



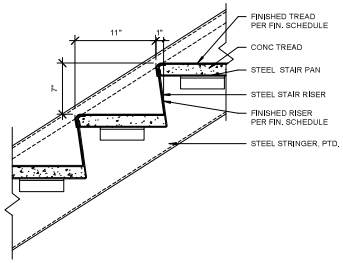
13 STAIR - TYP. HANDRAIL @ BTM
3/4" = 1'-0"



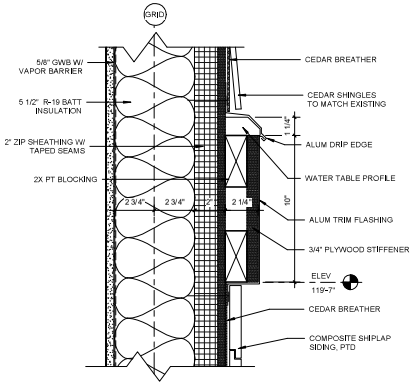
10 STAIR - TYP. HANDRAIL @ TOP
3/4" = 1'-0"



9 STAIR - TYP. HANDRAIL MOUNTING
1 1/2" = 1'-0"



6 STAIR - TYP. TREAD/RISER
1 1/2" = 1'-0"



3 WALL - SECTION DETAIL @ WATER TABLE
3" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDA	12/7/22
2	ADDS & CLEARING	1/20/23

CONSTRUCTION SET
6/6/2022

DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

SECTION DETAILS

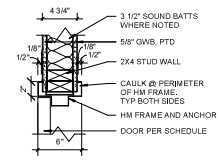
DATE	07/13/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

A602

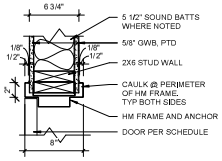
DOOR SCHEDULE

No.	Room	Width	Height	Type	Operation	Door Material	Door Finish	Door Type	Frame Material	Frame Finish	Frame Type	Head	Jamb	Sill	Fire Rating	HW SET	Comments
01	LOBBY	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	2/A700	2/A700		45	HW 9	WITH VISION PANEL
02	STAIR 1	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	2/A700	2/A700		45	HW 9	WITH VISION PANEL IN EXISTING OPENING
03	CHIEF OFFICE	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700			HW 8	WITH VISION PANEL
04	EMS OFFICE	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	2/A700	2/A700		45	HW 9	WITH VISION PANEL
05	BAY 1	12' - 0"	14' - 0"	Exterior	Overhead	STEEL	PAINTED		STEEL	PAINTED		6/A700	12/A600				WITH INT. & EXT. REMOTE SENSOR & DOOR OPERATOR WIRED BACK TO DISPATCH
06	BAY 2	12' - 0"	14' - 0"	Exterior	Overhead	STEEL	PAINTED		STEEL	PAINTED		6/A700	12/A600				WITH INT. & EXT. REMOTE SENSOR & DOOR OPERATOR WIRED BACK TO DISPATCH
07	BAY 3	14' - 0"	14' - 0"	Exterior	Overhead	STEEL	PAINTED		STEEL	PAINTED		6/A700	12/A600				WITH INT. & EXT. REMOTE SENSOR & DOOR OPERATOR WIRED BACK TO DISPATCH
08	BAY 4	14' - 0"	14' - 0"	Exterior	Overhead	STEEL	PAINTED		STEEL	PAINTED		6/A700	12/A600				WITH INT. & EXT. REMOTE SENSOR & DOOR OPERATOR WIRED BACK TO DISPATCH
09	EMS STOR	3' - 0"	7' - 0"	Interior	Swing	STEEL	PAINTED	A	HM	PAINTED	1	1/A700	1/A700			HW 8	
10	STAIR 3 - LOWER	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700		45	HW 5	WITH VISION PANEL
11	ELEC	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 2	
12	STOR 1	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 8	
13	TOOLS	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 8	
14	AIR	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 8	
15	LAUN	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700			HW 11	WITH VISION PANEL
16	DECON	3' - 6"	7' - 0"	Interior	Swing	STEEL	PAINTED	A	HM	PAINTED	1	3/A700	3/A700			HW 8	
17	STAIR 3 - LANDING	3' - 0"	7' - 0"	Exterior	Swing	STEEL	PAINTED	B	HM	PAINTED	1	7/A700	7/A700	8/A700		HW 1	INSULATED - WITH VISION PANEL
18	STAIR 3 - UPPER	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	2/A700	1/A700		45	HW 6	WITH VISION PANEL
19	HALL	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700			HW 9	WITH VISION PANEL
20	SLEEP 1	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 4	WITH SOUND GASKETING & CLOSER
21	SLEEP 2	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 4	WITH SOUND GASKETING & CLOSER
22	SHOWER 2	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 3	
23	JAN	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 2	
24	SLEEP 3	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	2/A700			HW 4	WITH SOUND GASKETING & CLOSER
25	SLEEP 4	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 4	WITH SOUND GASKETING & CLOSER
26	SHOWER 1	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 3	
27	DAY RM	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	2	1/A700	1/A700			HW 11	WITH SIDELIGHT & VISION PANEL
28	FITNESS	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700			HW 8	WITH VISION PANEL
29	CL	4' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	3	1/A700	1/A700			HW 7	
30	CL	4' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	3	1/A700	1/A700			HW 7	
31	TRAINING	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700		45	HW 10	WITH VISION PANEL & SOUND GASKETING
32	STOR 3	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 8	
33	DINING	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	2	1/A700	1/A700			HW 9	WITH SIDELIGHT & VISION PANEL
34	WC	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 3	
35	MACH RM 2	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700		45	HW 2	
36	TRAINING	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700		45	HW 9	WITH VISION PANEL
37	STOR 2	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	A	HM	PAINTED	1	1/A700	1/A700			HW 8	
38	STAIR 2 - UPPER	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700		45	HW 6	WITH VISION PANEL
39	STAIR 2 - LANDING	3' - 0"	7' - 0"	Interior	Swing	BIRCH	STAINED	B	HM	PAINTED	1	1/A700	1/A700		45	HW 5	WITH VISION PANEL
E1	LOBBY - EXISTING	3' - 0"	7' - 0"	Exterior												OFOI	W/ UNLOCKING BUTTON IN DAY WATCH
E2	BAY 1 - EXISTING	3' - 0"	7' - 0"	Exterior												OFOI	
E3	DAY WATCH - EXISTING	3' - 0"	7' - 0"	Interior												OFOI	
E4	STAIR 1 - EXISTING	3' - 6"	7' - 0"	Interior												OFOI	
E5	HALL - EXISTING	2' - 8"	7' - 0"	Interior												OFOI	
E6	VESTIBULE - EXISTING	3' - 0"	7' - 0"	Interior												OFOI	

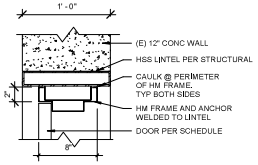
NOTES:
1. SEE SPECIFICATIONS FOR DOOR HARDWARE INFORMATION - (HW SETS)
2. GC TO CONFIRM DOOR ROUGH OPENINGS WITH MFG.



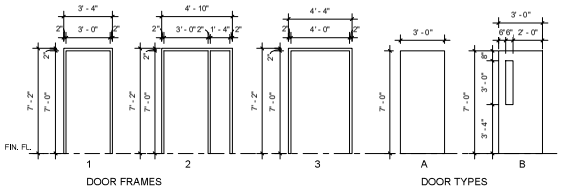
1 INT DOOR - FRAME - 2X4
1 1/2" = 1'-0"



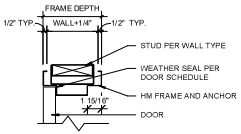
2 INT DOOR - FRAME - 2X6
1 1/2" = 1'-0"



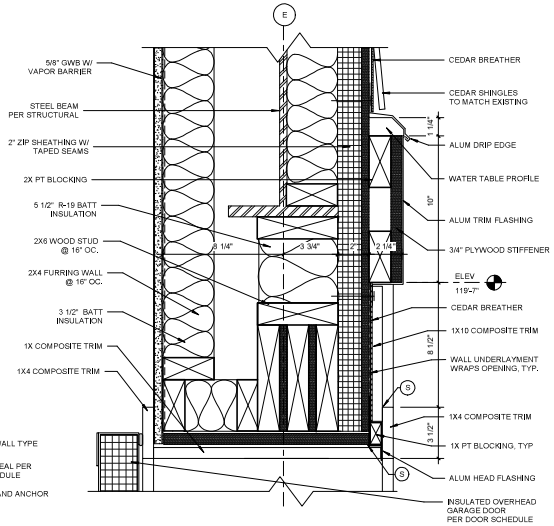
3 INT DOOR - FRAME - CONC
1 1/2" = 1'-0"



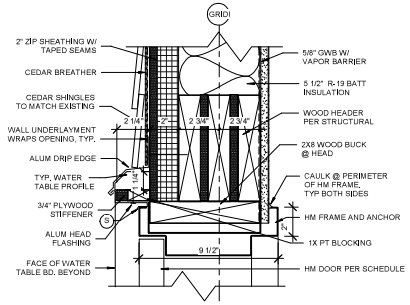
4 DOOR & FRAME TYPES
1/4" = 1'-0"



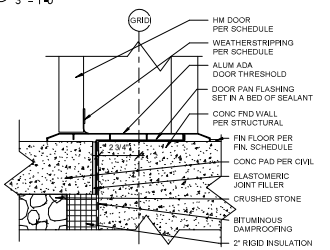
5 TYP. HM DOOR FRAME
1 1/2" = 1'-0"



6 DOOR - SECTION DETAIL @ WATER TABLE
3" = 1'-0"



7 EXT DOOR - FRAME - 2X6
3" = 1'-0"



8 EXT DOOR - SILL
3" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDUM	12/7/22
2	CMC & ELEVATOR	1/20/23

CONSTRUCTION SET
6/6/2022

DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

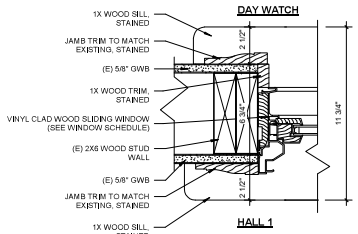
DOOR SCHEDULES & DETAILS

DATE	07/01/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

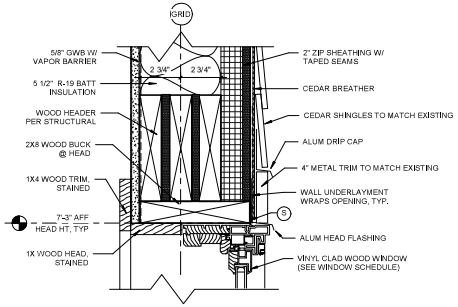
A700

WINDOW SCHEDULE												
Mark	Location	Operation	Manufacturer	Model	Width	Height	Head	Jamb	Sill	Finish	Accessories	Comments
A	Exterior	Double Hung	Andersen	ADH2854	2' - 8"	5' - 4"	1/A701	2/A701	3/A701	Ext - White / Int - Clear Poly	Screen	Interior Shades
B	Exterior	Double Hung	Andersen	ADH2444	2' - 4"	4' - 4"	1/A701	2/A701	3/A701	Ext - White / Int - Clear Poly	Screen	
C	Exterior	Double Hung	Andersen	ADH2448 (E)	2' - 4"	4' - 8"	1/A701	2/A701	3/A701	Ext - White / Int - Stained to Match	Screen	Re-use existing - GC to verfy R.O.
D	Exterior	Awning	Andersen	AAN4418	4' - 4"	1' - 8"	1/A701	2/A701	3/A701	Ext - White / Int - Clear Poly	Screen	
E	Exterior	Awning	Andersen	AAN3428	3' - 4"	2' - 8"	1/A701	2/A701	3/A701	Ext - White / Int - Clear Poly	Screen	Interior Shades
F	Interior	Gliding	Andersen	G32	3' - 0"	1' - 11"	4/A701	4/A701	3/A701	Ext - White / Int - Stained to Match		Transaction Window
G	Interior	Fixed	Andersen	P3030	3' - 0"	3' - 0"	4/A701	4/A701	3/A701	Ext - White / Int - Stained to Match		Vision Panel above Transaction Window

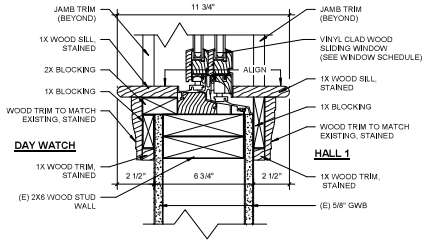
NOTES:
1. MULLION BETWEEN GANGED WINDOWS TO HAVE A DOUBLE STUD POCKET. PER DETAL 6/A701.
2. GC TO CONFIRM GANGED WINDOW ROUGH OPENINGS WITH MFG.



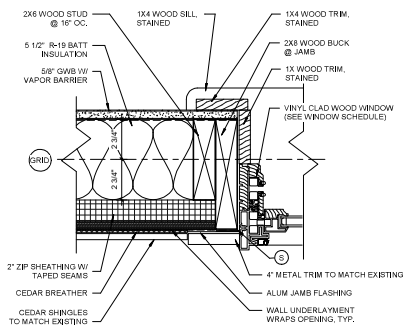
4 GLIDING - PLAN DETAIL @ JAMB
3" = 1'-0"



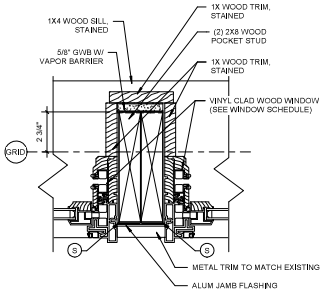
1 WINDOW - SECTION DETAIL @ HEAD
3" = 1'-0"



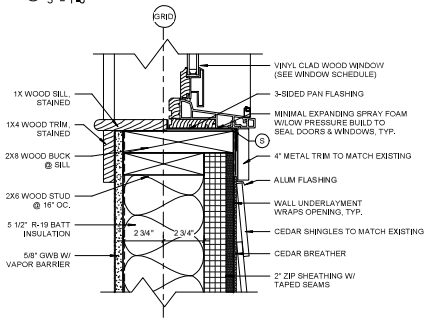
5 GLIDING - SECTION DETAIL @ SILL
3" = 1'-0"



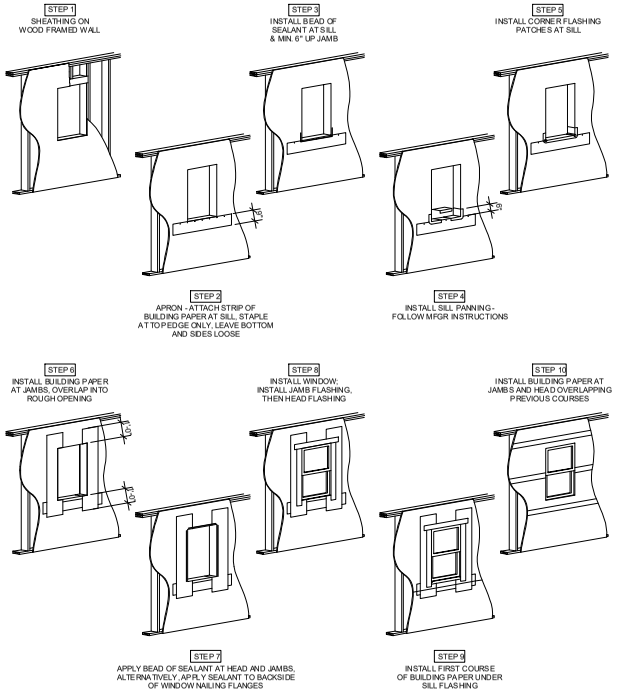
2 WINDOW - PLAN DETAIL @ JAMB
3" = 1'-0"



6 WINDOW - PLAN DETAIL @ MULLION
3" = 1'-0"



3 WINDOW - SECTION DETAIL @ SILL
3" = 1'-0"



7 WINDOW INSTALLATION SEQUENCING
1/4" = 1'-0"

REV.	DESCRIPTION	DATE
1	ADDENDA	12/2/22
2	DMG & ELLSWORTH	1/20/23

CONSTRUCTION SET
6/6/2022

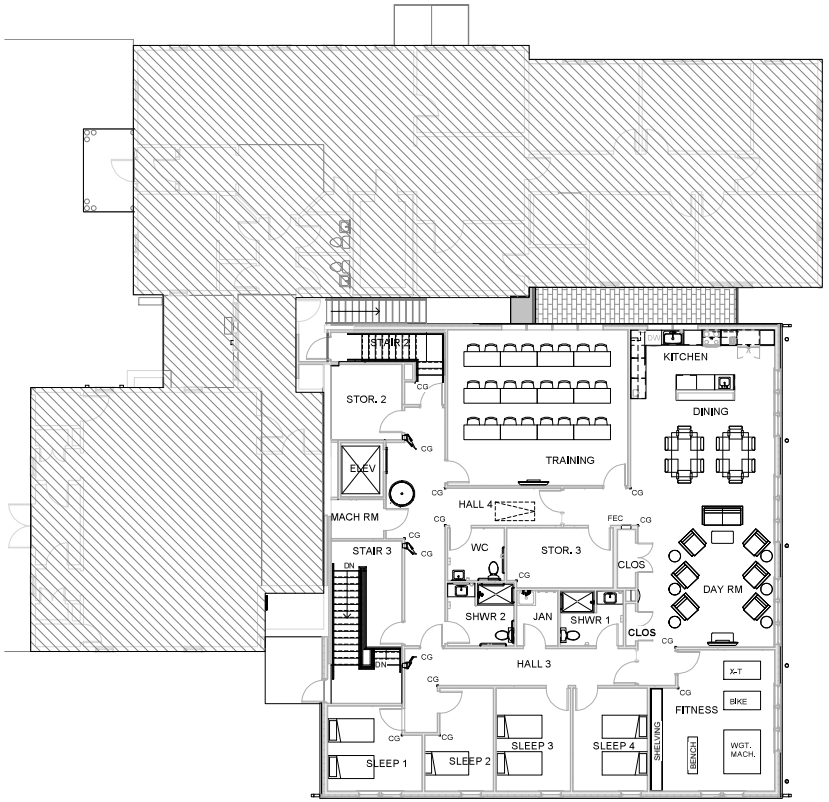
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

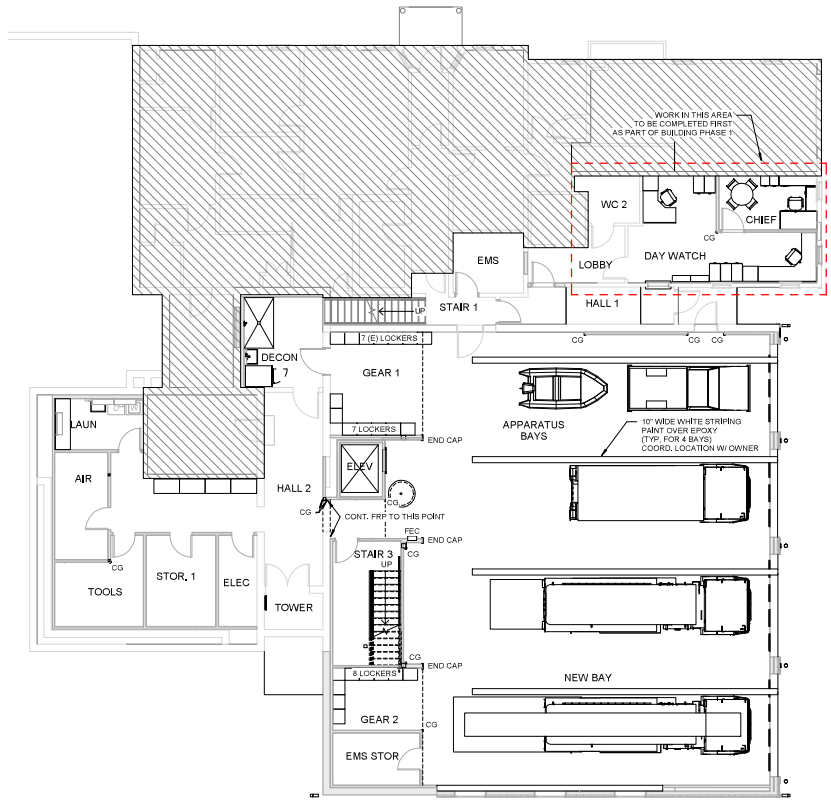
WINDOW SCHEDULE & DETAILS

DATE	11/03/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

A701



2 LEVEL 2 - FURNISHING
1/8" = 1'-0"



1 LEVEL 1 - FURNISHING
1/8" = 1'-0"

ROOM FINISH SCHEDULE

Name	Level	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
CLOS	LEVEL 2B	RSF1	RWB2	PT1-2	PT1-5	TYPICAL CLOSET
DAY RM	LEVEL 2B	RSF1	RWB1	PT1-2 EAST AND WEST PT1-1	PT1-5/ACT	
DINING	LEVEL 2B	RSF1	RWB1	PT1-2 EAST AND WEST PT1-1	PT1-5/ACT	
FITNESS	LEVEL 2B	RFT2	RWB2	PT1-2	PT1-5	
HALL 3	LEVEL 2B	RSF1	RWB1	PT1-2	PT1-5	
HALL 4	LEVEL 2B	RSF1	RWB1	PT1-2	PT1-5	
JAN	LEVEL 2B	RSF2	RWB2	PT2-5/FRP1	PT2-5	
KITCHEN	LEVEL 2B	RSF1	RWB1	PT1-2 EAST AND WEST PT1-1	PT1-5	SSURFACE1 COUNTERS PLAM CABINETS
MACH RM	LEVEL 2B	RSF3	RWB2	PT1-5	PT1-5	
SHWR 1	LEVEL 2B	RSF2	RWB1	EPT2-4/FRP2	PT2-5	SSURFACE2 COUNTER PLAM CABINET SSURFACE2 SHOWER WALL AND PAN
SHWR 2	LEVEL 2B	RSF2	RWB1	EPT2-4/FRP2	PT2-5	SSURFACE2 COUNTER PLAM CABINET SSURFACE2 SHOWER WALL AND PAN
SLEEP 1	LEVEL 2B	LVT	RWB1	PT1-4	PT1-5	
SLEEP 2	LEVEL 2B	LVT	RWB1	PT1-4	PT1-5	
SLEEP 3	LEVEL 2B	LVT	RWB1	PT1-4	PT1-5	
SLEEP 4	LEVEL 2B	LVT	RWB1	PT1-4	PT1-5	
STAIR 2	LEVEL 2B	RFT1/RT1	RWB2	PT1-5	PT1-5	
STAIR 3	LEVEL 2B	RFT1/RT1	RWB2	PT1-5	PT1-5	
STOR. 2	LEVEL 2B	RSF3	RWB2	PT1-5	PT1-5	
STOR. 3	LEVEL 2B	RSF3	RWB2	PT1-5	PT1-5	
TRAINING	LEVEL 2B	RSF1	RWB1	PT1-2	PT1-5/ACT	
WC	LEVEL 2B	RSF3	RWB1	PT2-4/FRP2	PT2-5	
AIR	LEVEL 1	RFT1	RWB2	PT1-5	PT1-5	

ROOM FINISH SCHEDULE

Name	Level	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
APPARATUS BAYS	LEVEL 1	EPOXY	COVE	FRP1/EPT-5	EPT-5	
CHIEF	LEVEL 1	EXIST	EXIST/NEW PT2-5 WD	PT1-2 SOUTH WALL PT1-1	APC	
DAY WATCH	LEVEL 1	EXIST	EXIST/NEW PT2-5 WD	PT1-2 SOUTH AND NORTH WALL PT1-1	APC	REPAIR FINISHES AS REQ BY NEW CONSTRUCTION
DECON	LEVEL 1	EPOXY	COVE	FRP1	EPT-5	
ELEC	LEVEL 1	RFT1	RWB2	PT1-5	PT1-5	
ELEV	LEVEL 1	RFT1				MANF STANDARD CAB FINISHES
EMS	LEVEL 1	EXIST	EXIST/NEW PT2-5 WD	PT1-2	EXIST	REPAIR FINISHES AS REQ BY NEW CONSTRUCTION
EMS STOR	LEVEL 1	EXIST SCONC	RWB2	EPT-5	EPT-5	
GEAR 1	LEVEL 1	EPOXY	COVE	FRP1/EPT-5	EPT-5	
GEAR 2	LEVEL 1	EPOXY	COVE	FRP1/EPT-5	EPT-5	
HALL 1	LEVEL 1	EXIST	EXIST/NEW PT2-5 WD	PT1-2	EXIST	REPAIR FINISHES AS REQ BY NEW CONSTRUCTION
HALL 2	LEVEL 1	RFT1	RWB2	EPT-5	EPT-5	
LAUN	LEVEL 1	RFT1	RWB2	PT2-5/FRP2	PT2-5	PLAM COUNTER AND CABINBETS
LOBBY	LEVEL 1	EXIST	EXIST/NEW PT2-5 WD	PT1-2	EXIST	REPAIR FINISHES AS REQ BY NEW CONSTRUCTION
NEW BAY	LEVEL 1	EPOXY	COVE	FRP1/EPT-5	EPT-5	
STAIR 1	LEVEL 1	EXIST/RT1	EXIST	PT1-5	EXIST	
STOR. 1	LEVEL 1	RFT1	RWB2	PT1-5	PT1-5	
TOOLS	LEVEL 1	RFT1	RWB2	PT1-5	PT1-5	
TOWER	LEVEL 1	EXIST	EXIST	PT1-5	PT1-5	REPAINT PAINTED SURFACES & NEW GWB
WC 2	LEVEL 1	EXIST	EXIST	EXIST/EPT-4	EPT-5	REPAINT PAINTED SURFACES

FINISH LEGEND

APC	Acoustic Panel Ceiling, Tegular
ACT	Direct Apply Acoustic Ceiling Panels
RSF1	Resilient Sheet Flooring Linoleum
RSF2	Resilient Sheet Flooring Slip Resistant Sheet Vinyl
RSF3	Resilient Sheet Flooring Sheet Vinyl
RFT1	Resilient Tile Flooring Rubber Raised Disc
RFT2	Resilient Tile Flooring Sport Floor
RT1	Treads and Risers Rubber Raised Disc
LVT	Luxury Vinyl Tile
RWB1	Resilient Wall Base Millworks Reveal
RWB2	Resilient Wall Base Traditional Cove
COVE	Stainless Steel Sani-Base
PT1	Paint Satin Latex
PT2	Paint Semi-Gloss Latex
EPT	Epoxy Paint
EPOXY	Poured Epoxy Floor
ST1	Stain and Clear Finish
RWP1	Rigid Door Protection Kick Plates and Escutcheons
RWP2	Rigid Wall Protection Corner Guards
FRP1	Fiberglass Reinforced Panel with Stainless Steel Trim and Base
FRP2	Fiberglass Reinforced Panel with matching horizontal trim and butt vertical joints.
SSURFACE1	Corian Solid Surface
SSURFACE2	Swanstone Solid Surface
PLAM	Plastic Laminate

FINISH NOTES:

1. See sheet A702 FURNISHING PLAN & FINISH SCHEDULE for additional information.

2. See Specification for additional information.

BUILDING AREA LEGEND

EXISTING TO REMAIN

NEW/RENOVATED

REV.	DESCRIPTION	DATE
	ADDENDA	7/21/22
2	PLANS & ELEVATIONS	8/30/22

CONSTRUCTION SET
6/6/2022

N

DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

Mount Desert Fire Department
Station 1 Renovation

FURNISHING PLAN & FINISH SCHEDULE

DATE	07/13/21
SCALE	As indicated
PROJECT NO.	132116
DRAWN BY	MDW
APPROVED BY	CMH

A702

GENERAL STRUCTURAL/FRAMING NOTES

1. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, OR OTHER SPECIALTY ENGINEERING DRAWINGS FOR DIMENSIONS NOT SHOWN.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, WEDGING, CUTTING AND PATCHING REQUIRED FOR THE COMPLETION OF ALL PHASES OF THE WORK. CUTTING SHALL BE DONE IN A CAREFUL MANNER TO AVOID DAMAGE TO ADJACENT CONSTRUCTION WHICH IS TO REMAIN.
5. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL BEFORE FABRICATION. FABRICATION OF ANY ITEMS PRIOR TO FINAL REVIEW & APPROVAL OF SHOP DRAWINGS WILL BE ENTIRELY AT THE RISK OF THE CONTRACTOR.
6. ALL DIMENSIONS AND ELEVATIONS NOTED ON STRUCTURAL DRAWINGS ARE TO BE COORDINATED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
7. SCALE INDICATED ON DRAWINGS IS FOR CONVENIENCE ONLY. IT IS NOT INTENDED THAT INFORMATION BE DETERMINED BY SCALING THE DRAWING SINCE SOME ITEMS MAY NOT BE TO THE SCALE SHOWN AS THE RESULT OF REVISION.

APPLICABLE CODES AND STANDARDS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH:
   1.1. THE MAINE UNIFORM BUILDING & ENERGY CODE (MUBEC)
   1.1.1. THE 2015 INTERNATIONAL BUILDING CODE (IBC)

STRUCTURAL DESIGN DATA

1. APPROXIMATE BUILDING LOCATION:
   N 44.294° ±
   W 68.287° ±
2. BUILDING OCCUPANCY CATEGORY: TYPE IV (ESSENTIAL FACILITY)
3. DEAD LOADS AND LIVE LOADS: PER ASCE 7-10. ALSO SEE LOAD MAPS.
4. SNOW LOADS: SNOW LOADING AND SNOW DRIFT LOADING SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. ALSO SEE LOAD MAPS.
   GROUND SNOW LOAD: Pg = 50 PSF
   IMPORTANCE FACTOR: Is = 1.2
   SNOW EXPOSURE CATEGORY: C (PARTIALLY EXPOSED)
   SNOW EXPOSURE FACTOR: Ce = 1.0
   ROOF SLOPE FACTOR: Cs = 1.0
   THERMAL FACTOR: Ct = 1.2 AT EAVES, 1.0 ELSEWHERE
5. WIND LOADS: WIND PRESSURE SHALL BE IN ACCORDANCE WITH THE BUILDING CODE.
   MAIN WIND FORCE RESISTING SYSTEM (MWFRS) DESIGN METHOD:
   "DIRECTIONAL PROCEDURE" PER ASCE 7-10 CHAPTER 27.
   BASIC WIND SPEED (3-SECOND GUST): V = 126 MPH
   EXPOSURE: CATEGORY C
   ENCLOSURE CLASSIFICATION: ENCLOSED
   INTERNAL PRESSURE COEFFICIENT: (GCpi = ±0.18
   COMPONENTS AND CLADDING LOADS TO BE BASED ON THE COMPONENTS TRIBUTARY AREA AND LOCATION.
   CONTRACTOR SHALL PROVIDE SUBMITTALS FOR COMPONENTS INDICATING THE DESIGN LOADS USED FOR EACH.
6. SEISMIC LOADS:
   SITE CLASS: D (ASSUMED)
   SEISMIC DESIGN CATEGORY (SDC): C
   RESPONSE MODIFICATION FACTOR (R): 7.0
   MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss): 0.176
   MAPPED SPECTRAL RESPONSE ACCELERATION AT LONG PERIOD (S1): 0.066
   SDS = 0.188
   SD1 = 0.106
   SEISMIC BASE SHEAR (V): 19.9 kips
   IMPORTANCE FACTOR (Ie): 1.5
   CALCULATION METHOD: SIMPLIFIED METHOD PER ASCE 7-10 SECTION 12.14.8.
7. GEOTECHNICAL INFORMATION:
   FOUNDATIONS WERE DESIGNED FOR A PRESUMPTIVE ALLOWABLE BEARING CAPACITY OF 3,000 PSF.
8. LOAD PATH FOR LATERAL FORCES: LATERAL FORCES ARE CARRIED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE SHEAR WALLS AND STEEL FRAME(S). MOMENTS, SHEARS, AND ROTATIONAL FORCES ARE DELIVERED TO THE FOUNDATION BY THE SHEAR WALLS AND STEEL FRAME(S) IN PROPORTION TO THEIR ABILITY TO RESIST LATERAL DEFORMATION.
9. LOAD COMBINATIONS: LOAD COMBINATIONS ARE IN ACCORDANCE WITH THE BUILDING CODE.

FOUNDATIONS

1. THE BOTTOM OF ALL EXTERIOR FOOTINGS AND FROST POSTS SHALL BE A MINIMUM OF 4'-6" BELOW ADJACENT FINISHED GRADE, UNLESS OTHERWISE NOTED.
2. ALL TOPSOIL, ORGANIC MATERIAL, UTILITIES, OR UNSUITABLE BEARING MATERIAL SHALL BE REMOVED FROM WITHIN AND BELOW THE LIMITS OF THE PROPOSED BUILDING. IF THE RESULTING SUBGRADE IS BELOW THE BOTTOM OF FOOTING OR SLAB ELEVATIONS, COMPACTED STRUCTURAL FILL OR CRUSHED STONE SHALL BE ADDED AS REQUIRED TO BOTTOM OF FOOTING OR SLAB ELEVATIONS.
3. ANCHOR RODS SHALL BE INSTALLED WITH A TEMPLATE TO HOLD THEM IN THE PROPER POSITION AND SHALL BE PLACED WITH A TOLERANCE OF ±1/4 INCH.
4. ALL SUBGRADE EXCAVATIONS SHALL BE KEPT DRY.
5. SEE STRUCTURAL, MECHANICAL, & ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF DOOR FRAMES, THRESHOLDS, ETC., AND CONCRETE PADS, PIERS, PIPE SLEEVES, ETC.

STRUCTURAL FILL

2. ALL FILL PLACED TO SUPPORT SLABS ON GRADE, FROST POSTS, BEHIND PERMANENT WALLS, AND AROUND ALL DRAINS SHALL CONSIST OF WELL GRADED, GRANULAR MATERIAL (STRUCTURAL FILL) OR CRUSHED STONE.
3. STRUCTURAL FILL SHALL BE PLACED ON SOUND NATIVE MATERIAL. PROOF-ROLL CUT AREAS THAT PROVIDE SUPPORT FOR PERMANENT STRUCTURES. AREAS WHICH ARE EXCESSIVELY YIELDING, SHALL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL.
4. SLABS SHALL BE CONSTRUCTED ON A MINIMUM OF 12 INCHES OF COMPACTED STRUCTURAL FILL OR CRUSHED STONE.
5. IN CONFINED AREAS, STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES IN UNCOMPACTED THICKNESS AND BE COMPACTED WITH HAND-OPERATED COMPACTION EQUIPMENT. STRUCTURAL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557, TEST METHOD OF LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING MODIFIED EFFORT.
6. IF FOOTINGS BEAR ON LEDGE, THE LEDGE SHALL BE LEVELED IF IT SLOPES MORE THAN 10 DEGREES PERPENDICULAR TO THE FACE OF THE WALL.
7. EXTREME LEDGE IRREGULARITIES MAY BE LEVELED WITH CLASS B CONCRETE. THE ENGINEER SHALL BE NOTIFIED BEFORE THE CONTRACTOR PROCEEDS WITH THAT PART OF THE WORK. THE TOP OF FOOTING ELEVATIONS SHALL BE ADJUSTED WHENEVER THE FOOTINGS ARE LESS THAN 1'-0" IN THICKNESS OR GREATER THAN 2'-0" IN THICKNESS.

CONCRETE

1. MATERIALS:
   1.1. PORTLAND CEMENT: ASMTM C 150 TYPE I OR TYPE II
   1.2. FLY ASH: ASTM C 618, TYPE C OR F
   1.3. AGGREGATES: ASTM C 33, UNIFORMLY GRADED
   1.4. AIR-ENTRAINING ADMIXTURE: ASTM C 260
   1.5. CHEMICAL ADMIXTURES: ASMTM C 494, WATER REDUCING, HIGH-RANGE WATER REDUCING, WATER REDUCING AND ACCELERATING, AND WATER REDUCING AND RETARDING AS REQUIRED. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE PERMITTED, NOR MAY IT BE ADDED TO THE CONCRETE MIX.
   1.6. MOISTURE-RETAINING COVER: ASTM C 171 POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET.
   1.7. CLEAR, SOLVENT-BORNE, MEMBRANE-FORMING CURING AND SEALING COMPOUND: ASTM C 1315, TYPE I, CLASS A.
   CURING SHALL NOT IMPAIR BONDING OF ANY MATERIAL TO BE APPLIED DIRECTLY TO THE CONCRETE.
2. MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE, AND SELECTION OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301, EXCEPT AS NOTED BELOW. PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.
3. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN ACCEPTABLE ADMIXTURE TO PRODUCE AIR-ENTRAINED CONCRETE WITH TOTAL AIR CONTENT AS NOTED IN THE CONCRETE MIX SPECIFICATION TABLE. TOLERANCE FOR AIR CONTENT SHALL BE ± 1.5 PERCENT. AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE. TESTS FOR AIR CONTENT SHALL MEET ASTM C172 REQUIREMENTS.
4. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 301. MIX PROPORTIONS SHALL MEET OR EXCEED THE REQUIREMENTS LISTED BELOW FOR THE LOCATIONS NOTED. THE MORE STRINGENT OF THE REQUIREMENTS LISTED SHALL GOVERN.
5. MAXIMUM SIZE OF AGGREGATE SHALL BE AS LISTED IN THE "CONCRETE MIX SPECIFICATION TABLE" LOCATED ON THIS SHEET. MAXIMUM FLY ASH AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE 50 PERCENT. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING FLY ASH AND OTHER POZZOLANIC MATERIALS.
6. SLUMP SHALL BE 4" TO 8" FOR CONCRETE WITH A VERIFIED SLUMP OF 2" TO 4" BEFORE THE ADDITION OF A HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE. SLUMP SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, SLUMP SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE.
7. THE USE OF SUPER PLASTICIZERS AND WATER REDUCERS IS ALLOWED, BUT NOT REQUIRED.
8. NO CONCRETE SHALL BE PLACED ON FROZEN GROUND.
9. DURING COLD WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 306, COLD WEATHER CONCRETE PRACTICES.
10. DURING HOT WEATHER, CONCRETING PROCEDURES SHALL CONFORM TO ACI 305, HOT WEATHER CONCRETE PRACTICES.
11. REFER TO ARCHITECTURAL PLANS FOR ANY REQUIRED SLAB PITCH FOR DRAINAGE.
12. CONCRETE SLAB FINISHES (U.N.O.):
    - SURFACES TO RECEIVE MORTAR SETTING BEDS: SCRATCH FINISH
    - INTERIOR STEPS & SURFACES TO RECEIVE WATERPROOFING: FLOAT FINISH
    - FLOOR SLABS TO RECEIVE COVERINGS, PAINT, OR OTHER THIN FILM-FINISH COATINGS: TROWELED FINISH
    - UNCOATED FLOOR SLABS: TROWELED FINISH
    - SURFACES TO RECEIVE THIN-SET TILE: TROWEL & FINE-BROOM FINISH

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE NEW BILLET STOCK ASTM A615, GRADE 60, UNLESS OTHERWISE NOTED. BARS SHALL BE SECURELY TIED IN PLACE WITH #16 DOUBLE-ANNEALED IRON WIRE. BARS SHALL BE SUPPORTED ON ACCEPTABLE CHAIRS. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES." COORDINATE REINFORCING STEEL PLACEMENT DETAILS AND PROVIDE TEMPLATES FOR PLACING STEEL IN CONGESTED AREAS AS NECESSARY.
2. NO REINFORCING BARS SHALL BE SPLICED BY WELDING. REINFORCING BARS SHALL BE LAP SPLICED FOR TENSION UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL LAP SPLICES SHALL BE CONSIDERED CLASS B TENSION LAP SPLICES UNLESS OTHERWISE NOTED.
4. ANCHOR BOLTS SHALL CONFORM TO ASTM A307. EXPANSION BOLTS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A108.
5. WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR TO PLATES, ANGLES, ETC., IS PROHIBITED.
6. ALL CONCRETE SLABS AND PADS SHALL HAVE A MINIMUM RATIO OF REINFORCEMENT AREA TO GROSS AREA OF 0.0018 UNLESS OTHERWISE NOTED.
7. MINIMUM CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL, UNLESS OTHERWISE NOTED, SHALL BE AS FOLLOWS:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
   ALL BAR SIZES: 3 INCHES
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #5 BAR OR SMALLER: 1½ INCHES
   #6 BAR OR LARGER: 2 INCHES

SLEEVES

1. EXCEPT AS DETAILED ON STRUCTURAL DRAWINGS, NO CONCRETE FOOTINGS, BEAMS, OR GIRDERS SHALL BE SLEEVED FOR PIPING OR DUCTS, UNLESS APPROVED BY THE ENGINEER.
2. PROVIDE WATERTIGHT PENETRATIONS IN SLABS AS REQUIRED TO ACCOMMODATE UTILITY ENTRANCES

BUILDING TOLERANCES

1. STANDARD TOLERANCES SHALL BE BASED ON THE REQUIREMENTS OF ACI 117.

SEQUENCING CONSTRUCTION AND LATERAL STABILITY

1. THE STRUCTURAL COMPONENTS BY THEMSELVES ARE A NON-SELF-SUPPORTING STRUCTURE. LATERAL FORCES DUE TO WIND, EARTHQUAKE, OR SOIL ARE CARRIED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE LATERAL SYSTEM.
2. CERTAIN ELEMENTS SHOWN ON THE STRUCTURAL DRAWINGS (SUCH AS ROOF DECKS, AND FLOOR DECKS) ARE REQUIRED FOR OVERALL OR LOCAL STABILITY OF OTHER ELEMENTS (SUCH AS BEAMS, COLUMNS, AND WALLS). DUE TO SEQUENCING OF CONSTRUCTION, THESE STABILITY ELEMENTS MAY NOT BE IN PLACE. TEMPORARY SHORING/BRACING MAY BE NEEDED UNTIL THE REQUIRED STRUCTURAL ELEMENTS AND THEIR CONNECTIONS HAVE BEEN INSTALLED AND REACH THEIR FINAL DESIGN STRENGTHS. THIS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND PROVIDE ADEQUATE TEMPORARY SUPPORTS AND BRACING NECESSARY TO INSURE THE SAFETY AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

GENERAL WOOD FRAMING NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CONCRETE WALLS/STUDS OR TO GRIDLINES EXCEPT WHERE NOTED OTHERWISE.
2. SEE ARCHITECTURAL PLANS FOR FRAMING METHOD OF WALLS (U.N.O.)
3. ALL STRUCTURAL MEMBERS MUST BE CONTINUOUS. LOCATE SPLICES OVER BEARING POINTS, U.N.O.
4. POSTS (2-2x4 AND LARGER) AND JACK STUDS SHALL EXTEND DOWN CONTINUOUSLY TO THE FOUNDATION UNLESS INTERRUPTED BY A BEAM OR JACK STUDS. ALL JACK STUDS AND POST LOCATIONS REQUIRE MATCHING BLOCKING STUDS BELOW FLOOR SHEATHING DOWN TO FOUNDATION WALL OR STRUCTURAL BEAMS.
5. IF POST IS NOT SPECIFIED AT A BEAM END OR WHERE A BEAM CROSSES A LOAD BEARING WALL, PROVIDE MIN. 2 JACK STUDS BELOW ALL BEAMS EQUAL TO OR GREATER THAN THE WIDTH OF THE BEAM ABOVE.
6. PROVIDE MINIMUM (2) JACK STUDS ON EACH SIDE OF ALL DOOR AND WINDOW OPENINGS IN INTERIOR PARTITION WALLS. (MIN.: (2) 2x4). IN EXTERIOR WALLS MIN. (2) 2x6.
7. CONNECTION HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED LUMBER OR OTHERWISE EXPOSED TO THE ELEMENTS SHALL BE HOT-DIPPED GALVANIZED (SIMPSON Z-MAX), OR STAINLESS STEEL, WITH MATCHING FASTENERS MEETING THE SPECIFICATIONS OF ASTM A153 OR SDS SCREWS WITH DOUBLE-BARRIER COATING. BARRIER MEMBRANES USED AS AN ALTERNATIVE TO THIS STANDARD MUST BE APPROVED BY THE ENGINEER. NAILS USED WITH SIMPSON CONNECTION HARDWARE AT TYPICAL FRAMING MEMBERS (STUDS, ROOF RAFTERS, ETC.) SHALL BE 10d COMMON OR SIMPSON 10d x1.5", U.N.O. NAILS IN BEAM HANGERS SHALL BE 16d COMMON, U.N.O.
8. ALL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) 2008 EDITION.
9. FRAMING GRADES:
   - FRAMING LUMBER (2x STUDS, ETC.) SHALL BE #1/#2 SPRUCE/PINE/FIR LESS THAN 19% MOISTURE CONTENT.
   - LAMINATED VENEER LUMBER (LVL): 1.9E, 2600 Fb, 285 Fv
   - PRESSURE TREATED FRAMING LUMBER (PT) SHALL BE #1/#2 AND BETTER SOUTHERN YELLOW PINE WITH MINIMUM Fb = 1500 PSI.
   - PT LUMBER SHALL MEET USE CATEGORIES AS FOLLOWS (BASED ON THE AMERICAN WOOD PROTECTION ASSOCIATION STANDARD U1-08):
     - PLATES: USE CATEGORY UC2
     - EXTERIOR POSTS: UC4A
     - EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND: UC3B
10. SHEATHING:
    - EXTERIOR WALL ⏚ ADVANTECH EXPOSURE 1, STRUCTURAL 1. FASTENERS: 8d @ 6" O.C. AT PANEL EDGES, 12" O.C. WITHIN PANEL U.N.O. WHERE SHEAR WALLS ARE DESIGNATED AS "BLOCKED" ON DRAWINGS, EDGE NAIL SPACING SHALL BE 3" O.C.
    - ROOF: ⏚ ADVANTECH EXPOSURE 1 TAG. FASTENERS: 8d AT 6" o/c AT PANEL EDGES, 12" o/c WITHIN PANEL.
    - NAIL HEAD MUST BE DRIVEN FLUSH. SHEATHING WITH OVERDRIVEN NAILS MUST BE REFASTENED.
    NOTE: NAILS DRIVEN INTO PT FRAMING MEMBERS SHALL BE HAND NAILED AND HOT-DIPPED GALVANIZED.
    SHEATHING NAILS TO BE LOCATED A MINIMUM OF ⅜" FROM ALL PANEL EDGES AND ENDS (TYP.)
11. ALL BUILT-UP BEAMS AND POSTS SHALL BE NAILED AS FOLLOWS (U.N.O.):
    - POSTS, JACKKING STUDS: 2-10d NAILS AT 6" o/c
    - BEAMS LESS THAN 12" DEEP: 2-16d NAILS AT 12" o/c IN EACH PLY
    - BEAMS DEEPER THAN 12" (INCLUDING 12"): 3-16d NAILS AT 12" o/c IN EACH PLY.
    (END-LOADED BEAMS MAY REQUIRE ADDITIONAL CONNECTIONS - SEE FRAMING DETAILS)
    -LVL: FOR 2 & 3 PLY BEAMS LESS THAN 12" DEEP: 2 ROWS 16d NAILS 12" O.C.; 2 & 3 PLY BEAMS GREATER THAN 12" DEEP: 3 ROWS 16d NAILS 12" O.C.; FOR MORE THAN 3 PLY BEAMS 2 ROWS 12" THREADED BOLTS AT 24" O.C., STAGGERED.
12. SILL SEALER SHALL BE PROVIDED BETWEEN WALL PLATES AND CONCRETE, U.N.O.
13. ALL HANGERS AND TIES ARE "SIMPSON STRONG-TIE" DESIGNATION U.N.O. AND MUST BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
14. STRUCTURAL BOLTS MUST MEET REQUIREMENTS OF ANSI/AISC B18.2.1.
15. ALL FASTENING OF FRAMING MEMBERS SHALL COMPLY WITH TABLE 2304.9.1 OF THE 2009 INTERNATIONAL BUILDING CODE.
16. WHERE REQUIRED, CONTRACTOR SHALL PROVIDE WOOD 2x NAILER PLATE ON TOP OF STEEL W-SECTIONS FOR THE ATTACHMENT OF HANGERS OR WOOD FRAMING MEMBERS. BOLT NAILER PLATE TO TOP FLANGE WITH ½"Ø STEEL BOLTS AT 24" ON-CENTER. BOLTS SHALL OCCUR ON ALTERNATE SIDES OF STEEL BEAM WEB. BOLT HOLES SHALL BE DRILLED BY THE STEEL FABRICATOR, AND SHALL BE SHOWN ON SHOP DRAWINGS. WOOD FILLING AND BLOCKING MAY ALSO BE REQUIRED ALONG WEBS OF BEAMS FOR HANGER OR OTHER ATTACHMENTS. PROVIDE AS REQUIRED.

STRUCTURAL STEEL

1. CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION. (ALLOWABLE STRENGTHS DESIGN)
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES.
3. MATERIALS:
   ASTM A992, FY=50 W SHAPES
   ASTM A36, FY=36 KSI PLATES AND ANGLES
   ASTM A500, GRADE B, FY=46 KSI FOR SQUARE AND RECTANGULAR TUBING
   ASTM A325 FOR HIGH STRENGTH BOLTS
   ASTM F1554 GRADE 36 ANCHOR RODS
4. ALL SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. FIELD CONNECTIONS SHALL BE HIGH STRENGTH BOLTED WHERE POSSIBLE. UNLESS NOTED, USE ¾" DIAMETER ASTM A-325N BOLTS INSTALLED IN ACCORDANCE WITH AISC, SNUG-TIGHT.
5. STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF RUST INHIBITIVE PRIMER. ADDITIONAL FINISHES MAY BE REQUIRED BY THE ARCHITECTURAL DOCUMENTS
6. GROUT UNDER BASE PLATES SHALL BE SIKAGROUT 212 AS MANUFACTURED BY SIKA CORPORATION OR SET GROUT BY MASTER BUILDERS.
7. STEEL COLUMNS AND BASE PLATES SHALL HAVE A MINIMUM 3" CONCRETE COVER PROTECTION, U.N.O.

WELDING:

1. ALL STRUCTURAL STEEL WELDING SHALL CONFORM THE AMERICAN WELDING SOCIETY STANDARD D1.1, LATEST EDITION.
2. ALL STRUCTURAL STEEL WELDING ELECTRODES SHALL CONFORM THE AWS A5.1 OR A5.5 E-70XX.
3. FIELD WELDING SHALL BE SHOWN ON SECTION DRAWINGS.
4. ALL EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND SUBJECT TO ENGINEERS APPROVAL. THE CONTRACTOR SHALL SUBMIT WRITTEN PROCEDURE AND DETAILS TO THE ENGINEERS FOR REVIEW PRIOR TO COMMENCING THE WORK.
5. PAINT ALL WELDS WITH RUST INHIBITIVE PAINT.
6. SPLICING OF STEEL MEMBERS, UNLESS SHOWN IN THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

STATEMENT OF SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS AND TESTS SHALL BE MADE DURING CONSTRUCTION, PER IBC 1704. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSPECTIONS AND TESTING WITH THE ENGINEER. SEE SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ACCEPTANCE OF TEST RESULTS.

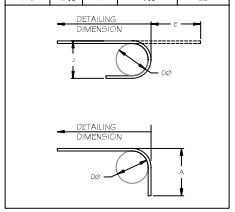
1. STRUCTURAL STEEL: QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360
2. CONCRETE CONSTRUCTION: (PER IBC TABLE 1705.3)
   2.1. PERIODIC SPECIAL INSPECTION:
   2.1.1. INSPECT REINFORCEMENT (FOOTINGS, WALLS, SLABS)
   2.1.2. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED (FOOTINGS, WALLS)
   2.1.3. INSPECT ANCHORS CAST IN CONCRETE
   2.1.4. VERIFY USE OF REQUIRED DESIGN MIX
   2.1.5. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES
   2.2. CONTINUOUS SPECIAL INSPECTION:
   2.2.1. PRIOR TO CONCRETE PLACEMENT: FIELD TESTS (SLUMP, AIR CONTENT AND TEMPERATURE) FOR EACH CONCRETE PLACEMENT, AND FABRICATE SPECIMENS FOR STRENGTH TEST CYLINDERS
3. SOILS: (PER IBC TABLE 1705.6)
   3.1. PERIODIC SPECIAL INSPECTION:
   3.1.1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY
   3.1.2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL
   3.1.3. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY SITE HAS BEEN PREPARED PROPERLY
   3.1.4. CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS (MD CURVES)
   3.2. CONTINUOUS SPECIAL INSPECTION:
   3.2.1. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL (SEE SPECIFICATIONS FOR TESTING METHOD, LOCATION, AND QUANTITY OF TESTS PER LIFT).
4. SPECIAL INSPECTIONS FOR WIND RESISTANCE: PERIODIC SPECIAL INSPECTIONS
   4.1. WOOD-FRAMED SHEAR WALLS WITH FASTENER SPACING 4" OR LESS VERIFY NAILING, SHEATHING MATERIAL, HOLD-DOWNS, ETC.:
   4.1.1. ALONG GRIDLINE A BETWEEN GRIDLINES 1 AND 2.1
   4.1.2. ALONG GRIDLINE 5, AGAINST EXISTING CMU
   4.2. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS
   4.3. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING
5. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE: NONE
6. OTHER SPECIAL INSPECTIONS: SEE ARCHITECTURAL PLANS FOR TESTING/INSPECTION RELATED TO FIRESTOPPING AND SMOKE CONTROL, AS APPLICABLE.

CONCRETE MIX SPECIFICATION TABLE

LOCATION	f'c MIN (PSI)	TEST AGE (DAYS)	MAX W/C RATIO	AIR CONTENT (%)	MAX AGGREGATE SIZE (IN.)
FOOTINGS & WALLS	4,000	28	0.44	5.5% ± 1.5%	1"
INTERIOR SLABS	3,000	28	0.44	3.0% MAX.	1"
EXTERIOR SLABS	4,000	28	0.44	5.5% ± 1.5%	1"

STANDARD HOOK DIMENSIONS

BAR SIZE	180° HOOKS			90° HOOKS
	D	E	J	A
#3	2½	5	3	6
#4	3	6	4	8
#5	3½	7	5	10
#6	4½	8	6	12
#8	6	11	8	16
#10	10½	17	13½	22



REQUIRED BAR DEVELOPMENT AND LAP SPLICE LENGTHS (UNLESS OTHERWISE NOTED)

DEVELOPMENT LENGTHS				
BAR SIZE	HOOK DEV	COMP DEV	STD DEV	TOP* DEV
#3	6	8	15	19
#4	7	10	19	25
#5	9	12	24	31
#6	10	15	29	37
#8	14	19	48	62
#10	17	25	61	79

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. "TOP" DEVELOPMENT & SPLICE VALUES APPLY TO HORIZONTAL WALL BARS.
3. WHERE SPLICING BARS OF DIFFERENT SIZE, USE GREATER OF SMALL BAR LAP AND LARGE BAR DEVELOPMENT LENGTH.

LAP SPLICE LENGTHS				
BAR SIZE	COL LAP	COMP LAP	STD LAP	TOP* LAP
#3	12	12	19	25
#4	13	15	25	33
#5	16	19	31	41
#6	19	23	37	48
#8	25	30	62	81
#10	32	39	79	102

DATE	REVISIONS
01/20/2022	ISSUED FOR PERMIT
04/20/2022	ALL CHANGES MADE VIA ADDENDA DURING BIDDING
	ALL COMMENTS MADE PER BID ISSUED FOR CONSTRUCTION

DRAWN BY: RP
REVIEWED BY: AW
DATE: 12/15/2021
PROJECT #: 220002
SCALE: AS NOTED

OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE

MOUNT DESERT FIRE STATION #1 RENOVATION

STRUCTURAL NOTES

SEAL: STATE OF MAINE, No. 11195, LICENSED PROFESSIONAL ENGINEER

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0930

DRAWING PHASE: CD

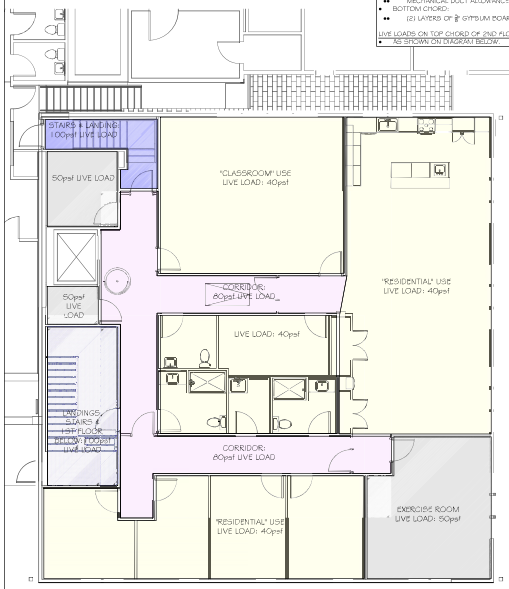
SHEET: S-0.1

1 LOAD MAP: 2ND FLOOR

Scale: 1/8" = 1'

SUPERIMPOSED DEAD LOADS ON 2ND FLOOR TRUSSES:
- TOP CHORD:
  - RESILIENT FLOORING ALLOWANCE: 2psf (ASSUMED)
  - ¾" PLYWOOD SUBFLOOR: 3psf
  - MECHANICAL DUCT ALLOWANCE: 4psf
- BOTTOM CHORD:
  - (2) LAYERS OF ⅝" GYPSUM BOARD CEILING BELOW: 5.5psf

LIVE LOADS ON TOP CHORD OF 2ND FLOOR TRUSSES:
- AS SHOWN ON DIAGRAM BELOW

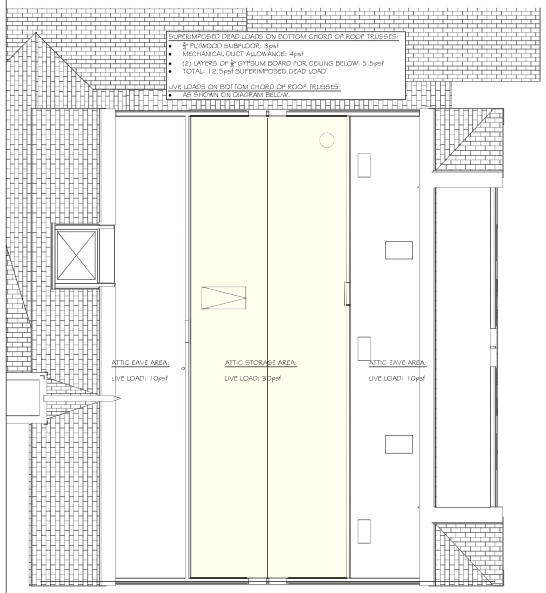


2 LOAD MAP: ATTIC

Scale: 1/8" = 1'

SUPERIMPOSED DEAD LOADS ON BOTTOM CHORD OF ROOF TRUSSES:
- ¾" PLYWOOD SUBFLOOR: 3psf
- MECHANICAL DUCT ALLOWANCE: 4psf
- (2) LAYERS OF ⅝" GYPSUM BOARD FOR CEILING BELOW: 5.5psf
- TOTAL: 12.5psf SUPERIMPOSED DEAD LOAD

LIVE LOADS ON BOTTOM CHORD OF ROOF TRUSSES:
- AS SHOWN ON DIAGRAM BELOW

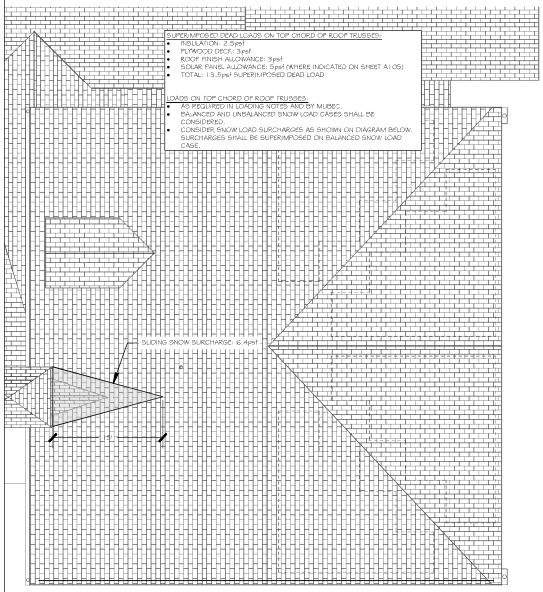


3 LOAD MAP: ROOF

Scale: 1/8" = 1'

SUPERIMPOSED DEAD LOADS ON TOP CHORD OF ROOF TRUSSES:
- INSULATION: 2.5psf
- PLYWOOD DECK: 3psf
- ROOF FINISH ALLOWANCE: 3psf
- SOLAR PANEL ALLOWANCE: 5psf (WHERE INDICATED ON SHEET A105)
- TOTAL: 13.5psf SUPERIMPOSED DEAD LOAD

LOADS ON TOP CHORD OF ROOF TRUSSES:
- AS PRESCRIBED IN LOADING NOTES AND BY MUNEC.
- BALANCED AND UNBALANCED SNOW LOAD CASES SHALL BE CONSIDERED.
- CONSIDER SNOW LOAD SURCHARGES AS SHOWN ON DIAGRAM BELOW. SURCHARGES SHALL BE SUPERIMPOSED ON BALANCED SNOW LOAD CASE.



4 LOAD MAP: MAIN FLOOR

NTS

MAIN FLOOR LEVEL LOADING:

- 100psf LIVE LOAD ON CONCRETE FLOOR SLAB-ON-GRADE. (NO DIAGRAM PROVIDED)

DATE	
01/20/22	
04/20/22	

REVISIONS	
1. ALL CHANGES MADE VIA ADDENDA DURING BIDDING.	
2. ALL CHANGES MADE POST-BID, ISSUED FOR CONSTRUCTION.	

DRAWN BY: RP
APPROVED BY: AW
DATE: 12/15/2021
PROJECT #: 220002
SCALE: AS NOTED

MOUNT DESERT FIRE STATION #1 RENOVATION

OWNER: TOWN OF MOUNT DESERT
LOCATION: 17 SOUTH STREET, NORTHEAST HARBOR, MAINE
21 SEA STREET, NORTHEAST HARBOR, MAINE

LOAD MAPS

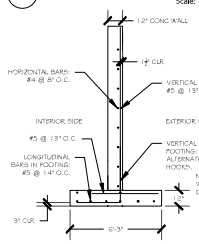
SEAL: STATE OF MAINE, No. 11195, LICENSED, PROFESSIONAL ENGINEER

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0930

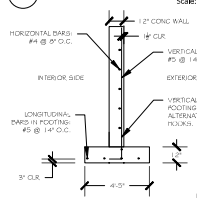
DRAWING PHASE: CD

SHEET: S-0.2

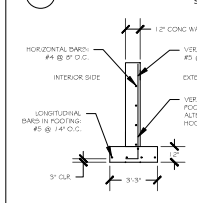
2 FOUNDATION SECTION 'A'
Scale: 1/4" = 1'



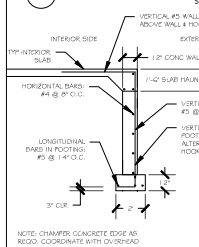
3 FOUNDATION SECTION 'B'
Scale: 1/4" = 1'



4 FOUNDATION SECTION 'C'
Scale: 1/4" = 1'

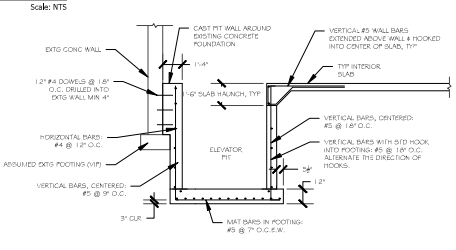


5 FOUNDATION SECTION 'D'
Scale: 1/4" = 1'

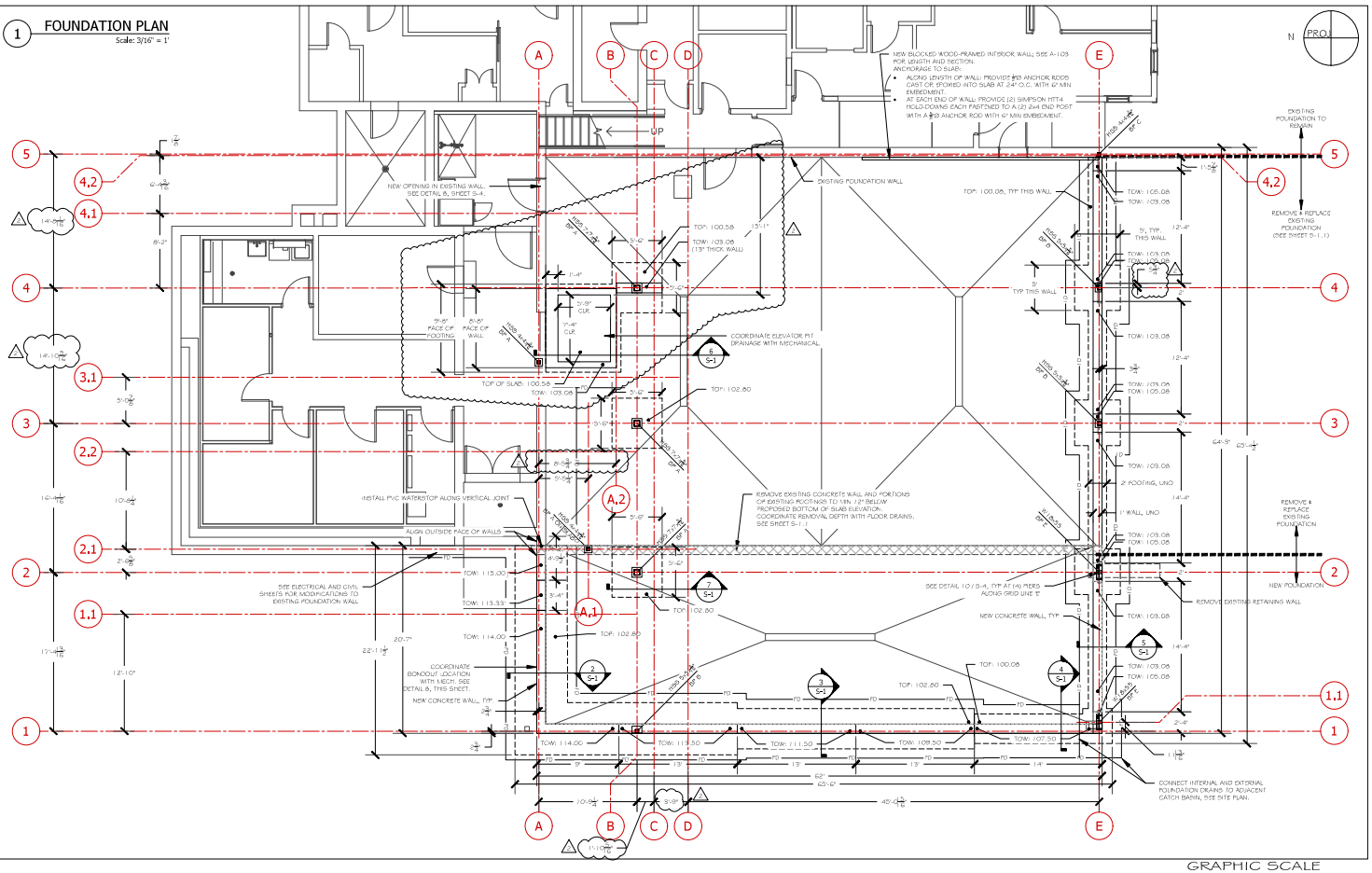


6 FOUNDATION SECTION 'E'
Scale: NTS

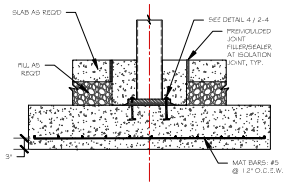
NOTES:
1. SUMP & PUMP NOT SHOWN FOR CLARITY. CONTRACTOR TO ADJUST REINFORCEMENT PLACEMENT TO ACCOMMODATE.
2. CONTRACTOR SHALL PROTECT EXISTING WALL FROM BEING UNDERMINED BY SHORING, INSTALLING ADJACENT PIT WALL IN 3' SECTIONS, OR SOME OTHER METHOD APPROVED BY THE ENGINEER.



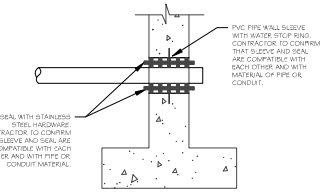
1 FOUNDATION PLAN
Scale: 3/16" = 1'



7 FOUNDATION SECTION 'F'
Scale: 3/4" = 1'



8 WALL PENETRATION SEAL FOR MECH.
Scale: NTS



HATCH LEGEND

- NEW CONCRETE SLAB
- REMOVE & REPLACE EXTG CONCRETE SLAB
- REMOVE EXTG CONC WALL

GRAPHIC SCALE
0 5 10 20
(IN FEET)
3/16" = 1 ft.

DATE	
01/05/2022	
04/05/2022	

ALL CHANGES MADE VIA ADDENDA CLOUDING
ALL CHANGES MADE POST BID, ISSUED FOR CONSTRUCTION

DRAWN BY: RP
REVIEWED BY: AW
DATE: 12/15/2021
PROJECT #: 220002
SCALE: AS NOTED

MOUNT DESERT FIRE STATION #1 RENOVATION
OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE
FOUNDATION PLAN

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0930

DRAWING PHASE
CD

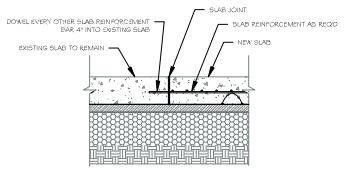
SHEET
S-1

HATCH LEGEND

- NEW CONCRETE SLAB
- REMOVE & REPLACE EXTG CONCRETE SLAB
- REMOVE EXTG CONC WALL

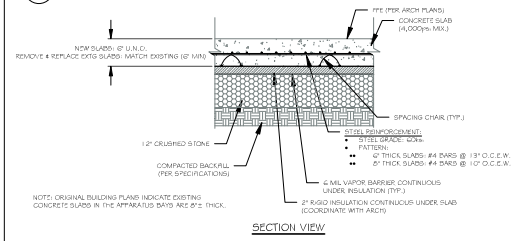
2 SECTION A-A

Scale: NTS



3 TYP. INTERIOR CONCRETE SLAB

Scale: NTS

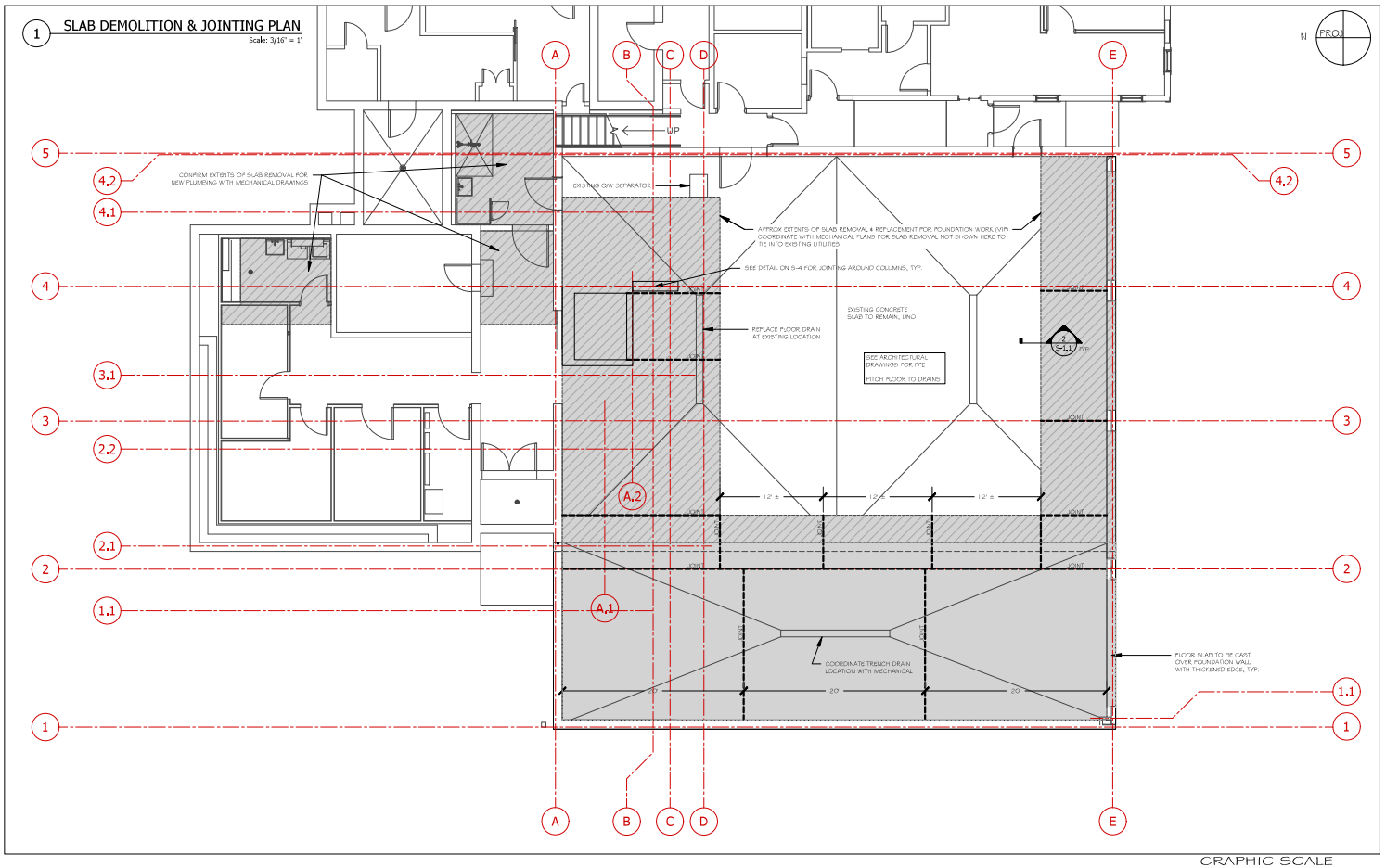


NOTE: ORIGINAL BUILDING PLANS INDICATE EXISTING CONCRETE SLABS IN THE APPARATUS BAYS ARE 6"± THICK.

SECTION VIEW

1 SLAB DEMOLITION & JOINTING PLAN

Scale: 3/16" = 1'



GRAPHIC SCALE

0 5 10 20

(IN FEET)
3/16" = 1 ft.

NO.	DESCRIPTION	DATE
1	ALL CHANGES MADE VIA ADDENDA CLARIFICATIONS	01/20/2023
2	ALL CHANGES MADE PER IFB, ISSUED FOR CONSTRUCTION	04/20/2023

DRAWN BY: RP
APPROVED BY: AW
DATE: 12/15/2022
SCALE: AS NOTED

OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE
PROJECT #: 220002

MOUNT DESERT FIRE STATION #1 RENOVATION

SLAB DEMO & JOINTING PLAN

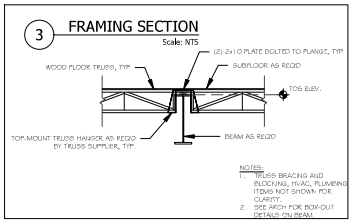
STATE OF MAINE
No. 11196
LICENSED
PROFESSIONAL ENGINEER
SEAL

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0930

DRAWING PHASE: CD

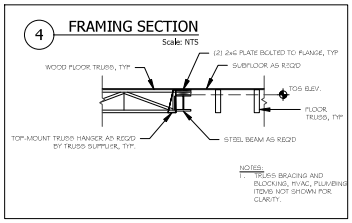
SHEET: S-1.1

3 FRAMING SECTION
Scale: NTS



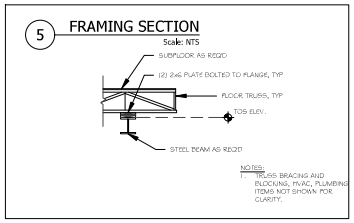
NOTES:
1. TRUSS BRACING AND BLOCKING, HVAC, PLUMBING ITEMS NOT SHOWN FOR CLARITY.
2. SEE ARCH FOR BOX-OUT DETAILS ON BEAM.

4 FRAMING SECTION
Scale: NTS



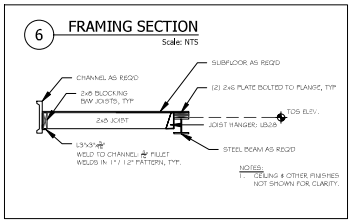
NOTES:
1. TRUSS BRACING AND BLOCKING, HVAC, PLUMBING ITEMS NOT SHOWN FOR CLARITY.

5 FRAMING SECTION
Scale: NTS



NOTES:
1. TRUSS BRACING AND BLOCKING, HVAC, PLUMBING ITEMS NOT SHOWN FOR CLARITY.

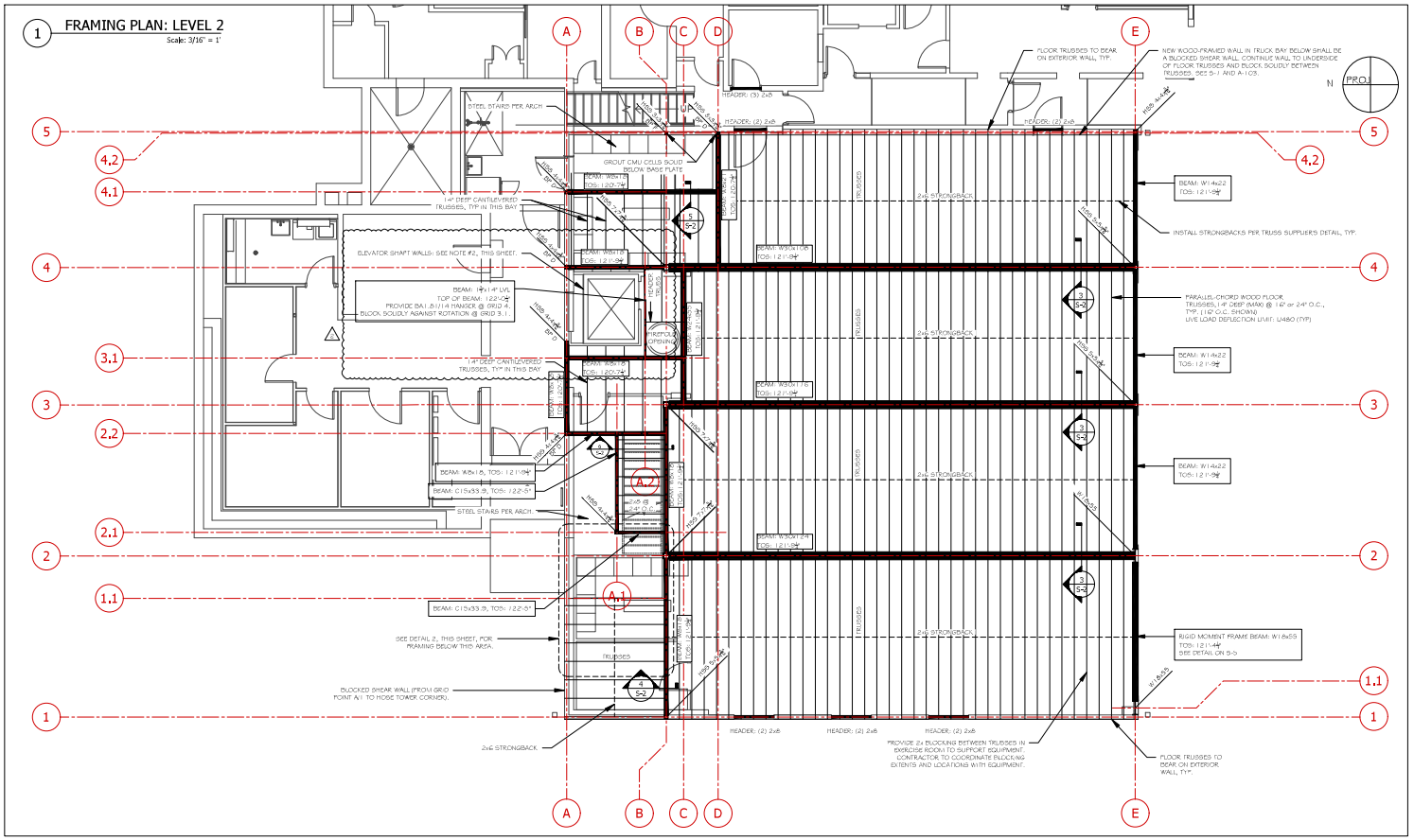
6 FRAMING SECTION
Scale: NTS



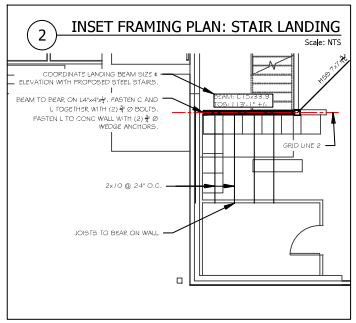
NOTES:
1. CEILING & OTHER FINISHES NOT SHOWN FOR CLARITY.

NOTES:
1. CONTRACTOR TO PROVIDE BOLTED SHEAR OR BEARING CONNECTIONS BETWEEN STEEL MEMBERS AS REQUIRED IN N.O. SEE DETAILS ON SHEET S-3.
2. ELEVATOR SHAFT WALLS: SHALL BE SHEATHED WITH A MINIMUM OF 3/8" THICK STRUCTURAL I CDX PANEL. JOINTS SHALL BE BLOCKED.

1 FRAMING PLAN: LEVEL 2
Scale: 3/16" = 1'



2 INSET FRAMING PLAN: STAIR LANDING
Scale: NTS



GRAPHIC SCALE
0 5 10 20
(IN FEET)
3/16" = 1 ft.

DATE	
01/20/22	
04/20/22	

01-14-22	ALL CHANGES MADE VIA ADDENDA DURING BIDDING
04-20-22	ALL CHANGES MADE PER RFI'S, ISSUED FOR CONSTRUCTION

DRAWN BY: RP
REVIEWED BY: AW
DATE: 12/15/2021
SCALE: AS NOTED

OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE
PROJECT #: 20002

MOUNT DESERT FIRE STATION #1 RENOVATION

FRAMING PLAN: LEVEL 2

SEAL: STATE OF MAINE No. 11196 LICENSED PROFESSIONAL ENGINEER

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0830

DRAWING PHASE: CD

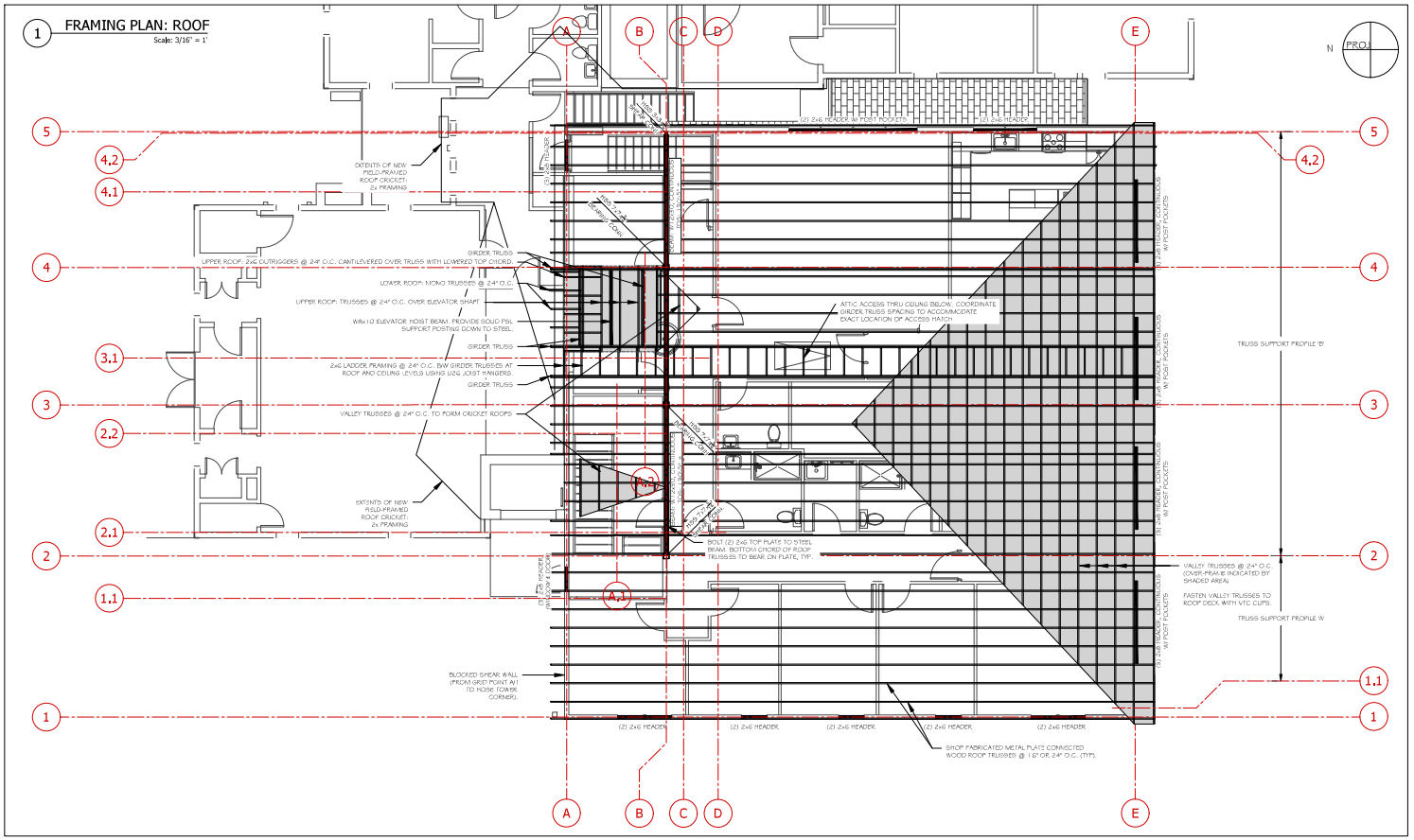
SHEET: S-2

NOTES:

1. CONTRACTOR TO PROVIDE BOLTED SHEAR OR BEARING CONNECTIONS BETWEEN STEEL MEMBERS AS NEEDED, U.N.O. SEE DETAILS ON SHEET S-5.
2. PERMANENT TRUSS BRACING IS NOT SHOWN ON THE FRAMING PLAN FOR CLARITY.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY & PERMANENT LATERAL TRUSS BRACING AS REQUIRED BY TRUSS MANUFACTURER AND TYPICAL DETAIL ON SHEET S-5.

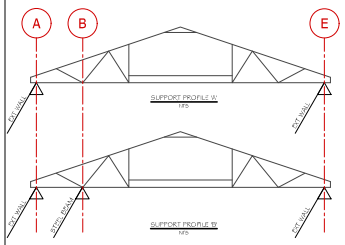
1 FRAMING PLAN: ROOF

Scale: 3/16" = 1'



2 ROOF TRUSS SUPPORT PROFILES

Scale: NTS



NOTES:

1. DIAGRAMS ABOVE SHOW SCHEMATICALLY WHERE TRUSSES WILL BE SUPPORTED
2. SEE ROOF FRAMING PLAN FOR EXTENTS OF WHERE EACH TRUSS SUPPORT TYPE IS USED.
3. TRUSS CHORD LAYOUT SHOWN ABOVE IS SCHEMATIC IN NATURE ONLY.

GRAPHIC SCALE

0 5 10 20

(IN FEET)
3/16" = 1 ft.

REVISIONS	DATE
#1 ALL CHANGES MADE VIA ADDENDA DURING BIDDING	01/20/22
#2 ALL CHANGES MADE POST-BID, ISSUED FOR CONSTRUCTION	04/20/22

DRAWN BY: RP
APPROVED BY: AW
DATE: 12/15/2021
SCALE: AS NOTED

MOUNT DESERT FIRE STATION #1 RENOVATION

OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE

PROJECT #: 20002

FRAMING PLAN: ROOF

SEAL

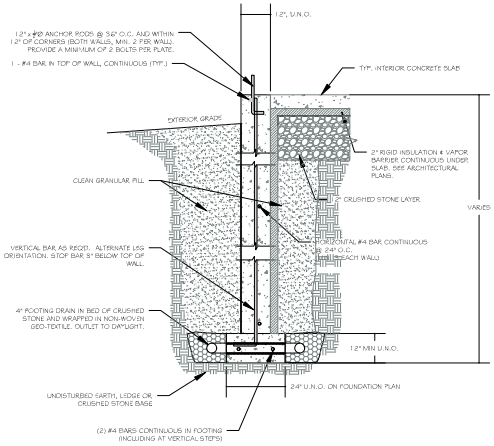
HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0830

DRAWING PHASE
CD

SHEET
S-3

1 TYP. EXTERIOR CONCRETE WALL CROSS-SECTION

Scale: NTS



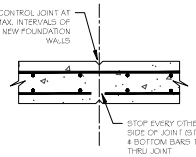
NOTES:

1. BOTTOM OF FOOTING ELEVATION MAY BE RAISED IF ON SOLID LEDGE, PROVIDED THE WALL EXTENDS NO LESS THAN 3' BELOW FINISH GRADE. IF WALL RESTS ON UNDISTURBED LEDGE THEN FOOTING MAY BE DILATED AND WALL PINNED TO THE LEDGE WITH (1) #4 x 36" REBAR @ 36" O.C. WITH 12" EMBEDDED INTO THE LEDGE. ALTERNATELY, IF LEDGE IS HIGHER THAN BOTTOM OF FOOTING DEPTH A FLAT PAD OF ¾" CRUSHED STONE MAY BE MADE AT A HIGHER ELEVATION AND FOOTING PLACED ON THIS.

2. IF LEDGE ELEVATION IS BELOW THE SPECIFIED BOF ELEVATION, THEN FOOTING SHALL BE LOWERED TO REST ON SOLID LEDGE OR ON GRADE AT LEAST 5.0' BELOW FINISH GRADE (HIGHER OF THE TWO).

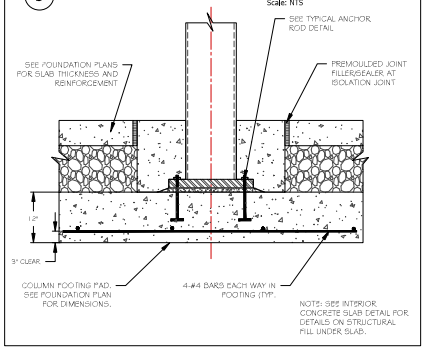
2 TYP. CONTROL JOINT AT CONCRETE WALL

Scale: NTS



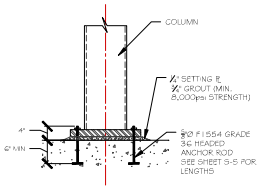
3 TYP. INTERIOR COLUMN FOOTING

Scale: NTS



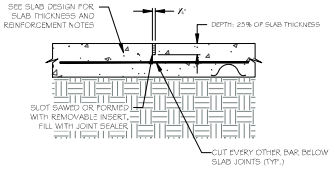
4 TYP. ANCHOR RODS

Scale: NTS



5 TYP. CONTROL JOINT FOR SLABS ON GRADE

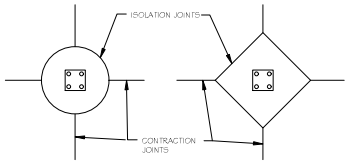
Scale: NTS



NOTES:
1. SEE ALSO 'CONCRETE JOINTS @ COLUMNS' DETAIL, THIS SHEET.
2. CONTROL JOINT LOCATIONS SHALL CORRESPOND TO COLUMN LINES.
3. JOINTS TO BE CUT WITHIN 48 HOURS AFTER SLAB PLACEMENT.

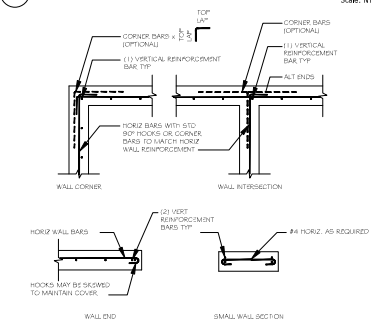
6 TYP. CONCRETE JOINTS AT INTERIOR COLUMNS

Scale: NTS



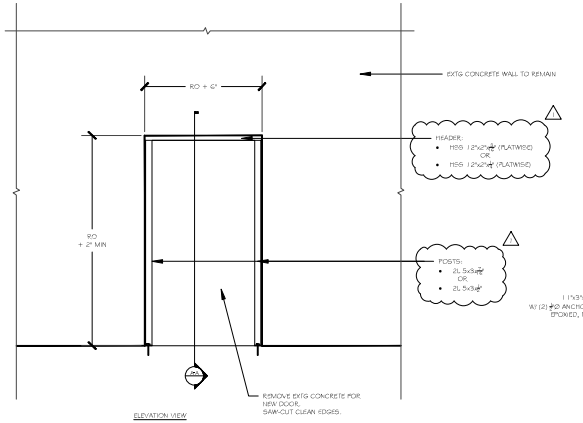
7 TYP. CONCRETE WALL REINFORCEMENT LAYOUT

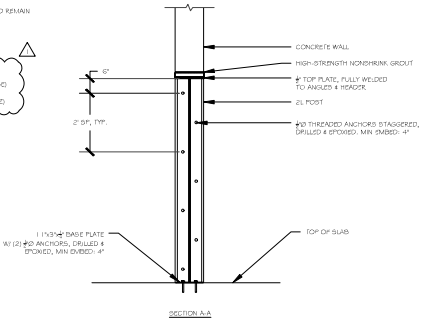
Scale: NTS



8 NEW DOOR OPENING IN EXISTING CONCRETE WALL

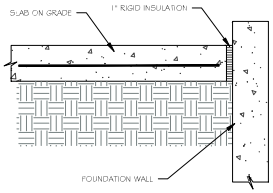
Scale: NTS





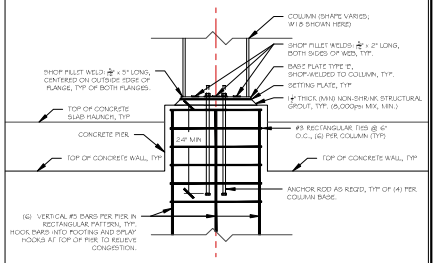
9 TYP. ISOLATION JOINT @ SLAB PERIMETER

Scale: NTS



10 TYP. CONCRETE PIER REINFORCEMENT

Scale: NTS



NOTE:
THIS CONCRETE PIER REINFORCEMENT DETAIL APPLIES AT THE FOLLOWING GRID LOCATIONS:
- S1/ I
- S2
- S3
- S4

2/14/22	ALL CHANGES MADE VIA ADDENDA DURING BIDDING
4/22/22	ALL CHANGES MADE PER RFI, ISSUED FOR CONSTRUCTION

DRAWN BY: RP
REVIEWED BY: AW
DATE: 12/15/2021
SCALE: AS NOTED
PROJECT #: 20002

MOUNT DESERT FIRE STATION #1 RENOVATION

OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE

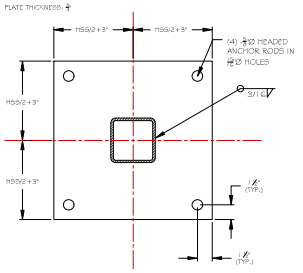
DETAILS

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0530

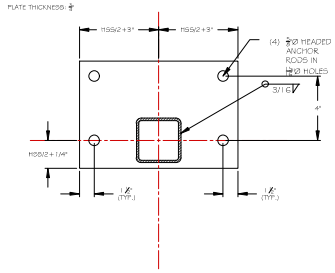
DRAWING PHASE
CD

SHEET
S-4

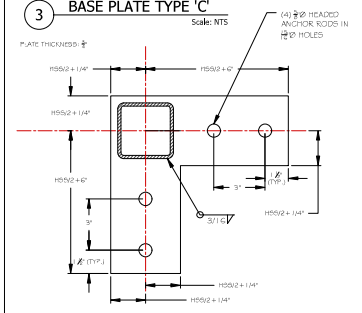
1 BASE PLATE TYPE 'A'
Scale: NTS



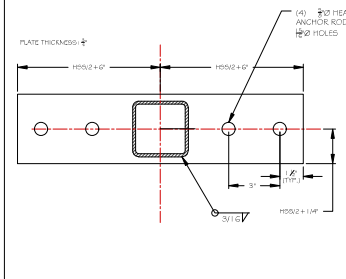
2 BASE PLATE TYPE 'B'
Scale: NTS



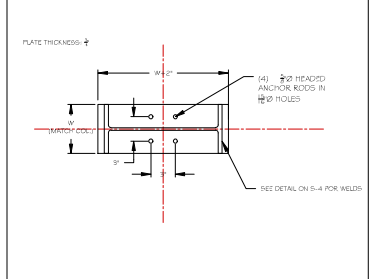
3 BASE PLATE TYPE 'C'
Scale: NTS



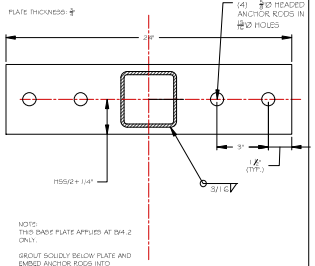
4 BASE PLATE TYPE 'D'
Scale: NTS



5 BASE PLATE TYPE 'E'
Scale: NTS



6 BASE PLATE TYPE 'F'
Scale: NTS



NOTE:
THIS BASE PLATE APPLIES AT B14.2 ONLY.

GROUT SOLIDLY BELOW PLATE AND EMBED ANCHOR RODS INTO GROUT.

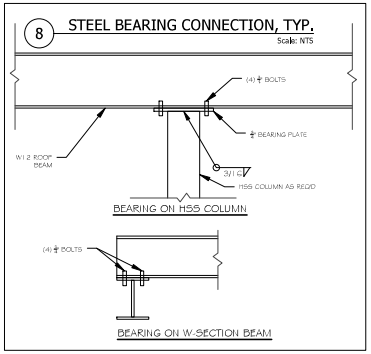
7 TYP. BASE PLATE & ANCHOR ROD NOTES
Scale: NTS

ANCHOR RODS:
- (4) 3/4" Ø F1554 GRADE 36 HEAVY HEX ANCHOR RODS PER COLUMN BASE. MINIMUM EMBEDMENT : 12" U.N.O.
- WASHERS: 2" Ø ROUND (OR 2" SQUARE) x MIN 1/4" THICK.
- ** : PIPE DIAMETER OF WASHERS: 13/16"
- NUTS: ASTM A563 HEAVY HEX.

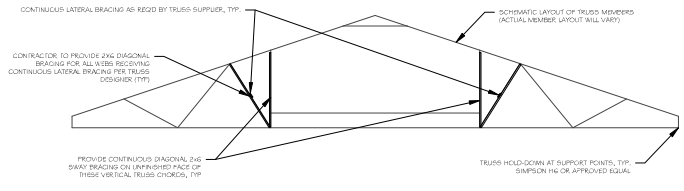
BASE PLATE:
- SIZE: AS SHOWN
- HOLES FOR ANCHOR RODS: AS SHOWN

SETTING PLATE:
- SIZE: 1/4" THICK (A36) (MATCH PLAN-SIZE OF CORRESPONDING BASE PLATE)
- HOLES FOR ANCHOR RODS: 13/16" Ø

8 STEEL BEARING CONNECTION, TYP.
Scale: NTS



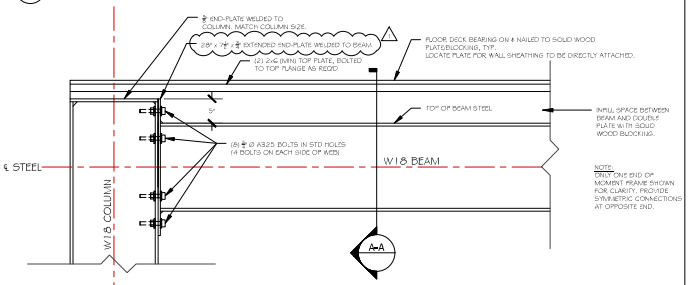
9 TYP. ROOF TRUSS BRACING: SCHEMATIC DETAIL
Scale: NTS



ROOF SECTION VIEW
NTS

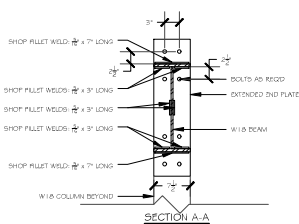
NOTES:
1. BRACE ENTIRE SET OF ROOF TRUSSES.
2. ACTUAL TRUSS MEMBER SIZES & LAYOUT TO BE DETERMINED BY TRUSS MANUFACTURER. THUS, THE DETAIL MAY REQUIRE FIELD MODIFICATION TO PROVIDE A BRACED SET OF TRUSSES. CONTRACTOR TO COORDINATE WITH STRUCTURAL ENGINEER.
3. PROVIDE EAVE WIDTHS AND RAISED HEEL AS REQUIRED BY ARCHITECTURAL PLANS.

10 MOMENT FRAME CONNECTION DETAILS
Scale: NTS



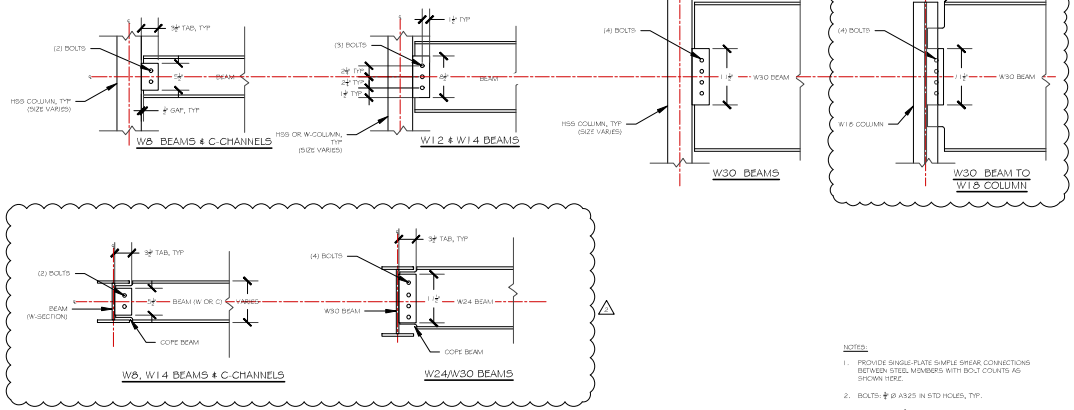
NOTE:
ONLY ONE END OF MOMENT FRAME SHOWN FOR CLARITY. PROVIDE SYMMETRIC CONNECTIONS AT OPPOSITE END.

ELEVATION VIEW
NTS



SECTION A-A
NTS

11 TYP. STEEL SHEAR CONNECTIONS
Scale: NTS



NOTES:
1. PROVIDE SINGLE-PLATE SIMPLE SHEAR CONNECTIONS BETWEEN STEEL MEMBERS WITH BOLT COUNTS AS SHOWN HERE.
2. BOLTS: 3/4" Ø A325 IN STD HOLES, TYP.
3. SHEAR TABS: 3/4" THICK, TYP. TABS TO BE WELDED ON BOTH SIDES TO SUPPORTING MEMBER WITH 1/4" FILLET WELDS.
4. COPE BEAMS AS NEEDED TO FACILITATE CONNECTIONS.
5. CONNECTION CONFIGURATIONS SHOWN HERE ARE SCHEMATIC AND NATURE AND SHALL BE DETAILED ON THE STRUCTURAL STEEL SHOP DRAWINGS.

DATE	
01/05/2022	ALL CHANGES MADE VIA ADDENDA CLARIFICATIONS
04/22/2022	ALL CHANGES MADE PER RFI, ISSUED FOR CONSTRUCTION

DRAWN BY: RP
APPROVED BY: AW
DATE: 12/15/2021
PROJECT #: 220002
SCALE: AS NOTED

MOUNT DESERT FIRE STATION #1 RENOVATION

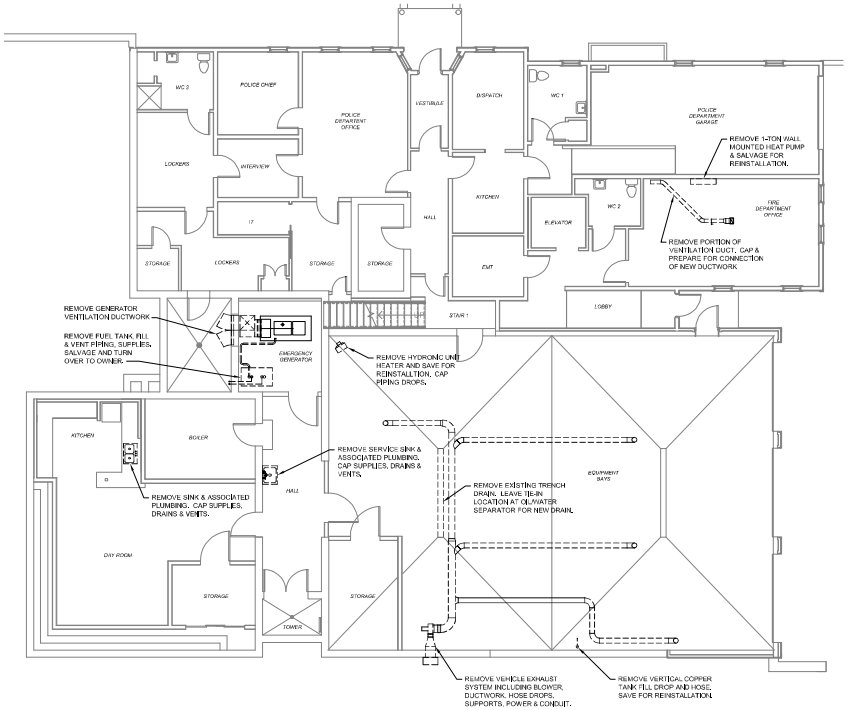
OWNER: TOWN OF MOUNT DESERT
LOCATION: 21 SEA STREET, NORTHEAST HARBOR, MAINE

DETAILS

HEDEFINE ENGINEERING & DESIGN, INC.
PO BOX 668
ELLSWORTH, ME 04605
(207) 664-0830

DRAWING PHASE
CD

SHEET
S-5



A / M001 **MECHANICAL REMOVALS**
SCALE: 1/8" = 1'-0"

MECHANICAL REMOVALS NOTES:

1. ITEMS INDICATED TO BE REMOVED INCLUDES ALL ASSOCIATED PIPING, WIRING, CONNDUITS, SUPPORTS & SPECIALTIES UNLESS OTHERWISE NOTED.
2. COORDINATE MECHANICAL REMOVALS WITH THE MECHANICAL DRAWINGS AND THE WORK OF OTHER TRADES.
3. WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS. ITEMS INDICATED TO BE REMOVED INCLUDES ALL PIPING, WIRING, SUPPORTS & SPECIALTIES UNLESS OTHERWISE NOTED OR REQUIRED FOR PROPER OPERATION OF THE REMAINING BUILDING SYSTEMS.
4. PATCH HOLES IN WALLS, CEILINGS, ROOFS & FLOORS AFTER REMOVING PIPE, CONDUIT OR EQUIPMENT.
5. CAP & SEAL RE-USED DUCTS AT LOCATIONS WHERE BRANCH DUCTS WERE REMOVED.
6. UNLESS OTHERWISE NOTED, REMOVED ITEMS SHALL BE THE PROPERTY OF THE CONTRACTOR. THE ITEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.
7. ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN OWNER'S PROPERTY. REMOVE, CLEAN & STORE FOR RE-USE.
8. NO LEAD PAINT REMOVAL OR ASBESTOS ABATEMENT SHALL BE PERFORMED UNDER THIS CONTRACT.

REV	DATE	DESCRIPTION

Project: **MOUNT DESERT FIRE STATION #1 RENOVATION & ADDITION**

21 SEA STREET — NORTHEAST HARBOR, ME

Prepared by: **Hedefine Engineering & Design, Inc.**
P.O. BOX 688
ELLSWORTH, ME 04605
TEL: (207) 610-4030

J.M. Kilby
Engineering P.A.
P.O. Box 160
Burlington, ME 04417
207.732.5404

Seal: STATE OF MAINE — JOHN M. KILBY — No. 8722 — LICENSED PROFESSIONAL ENGINEER — 6-6-2022

Project #: 19027

Phase: ISSUED FOR CONSTRUCTION

Scale: AS NOTED — Drawn: JMK

Sheet Title: *Mechanical Removals*

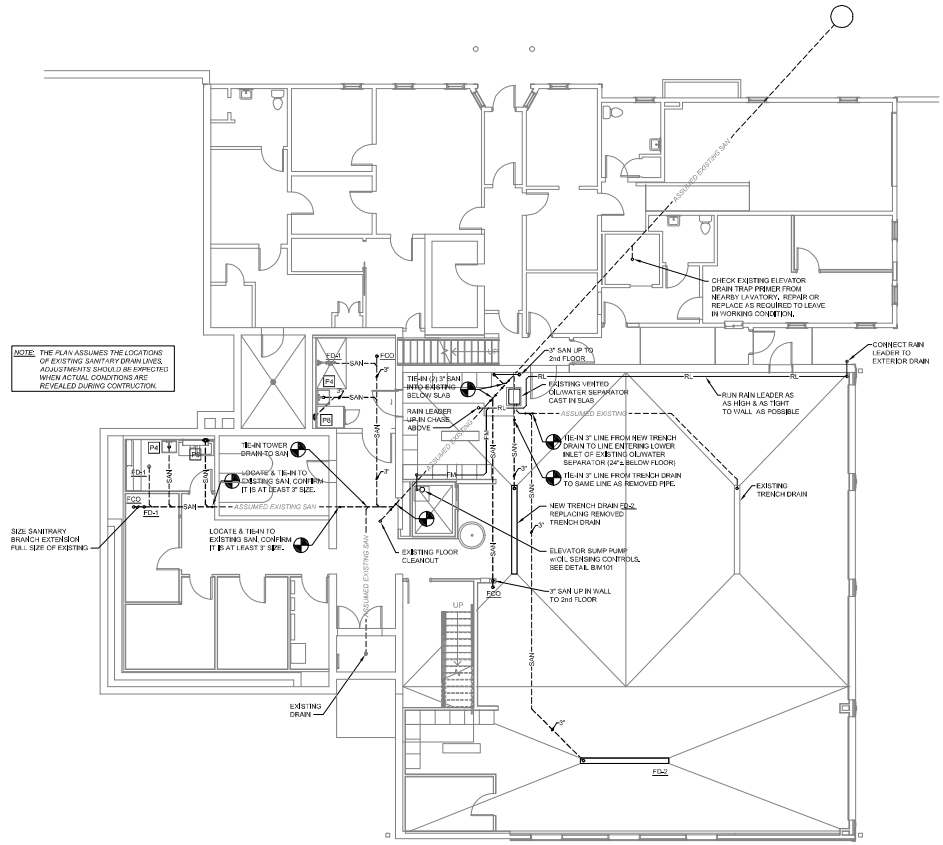
Date: June 6, 2022

Sheet #: M001

PLUMBING FIXTURE & CONNECTION SCHEDULE

SYMBOL	FIXTURE	DESCRIPTION	WASTE	VENT	CW	HW
P1	WATER CLOSET, FLOOR MOUNTED, PRESSURE-ASSISTED, TANK TYPE. ADA & ANSI A117.1 COMPLIANT	AMERICAN STANDARD #2467.016. CADET PRESSURE-ASSISTED. WHITE, ELONGATED BOWL. 1.6 GPF. 16-1/2" RIM HEIGHT. WITH CHURCH MODEL 3905LOW SLOW-CLOSE SOLID PLASTIC WHITE SEAT AND COVER. TRIP LEVER SHALL BE TO THE OPEN FLOOR SIDE OF THE WATER CLOSET.	3"	2"	1/2"	-
P2A	LAVATORY, WALL-HUNG. ADA & ANSI A117.1 COMPLIANT	AMERICAN STANDARD MURRO. w/ WALL HANGER AND OPTIONAL SHROUD/KNEE CONTACT GUARD. WHITE. PROVIDE WITH SYMMONS MODEL S-820-AS SINGLE LEVER FAUCET WITH GRID STRAINER DRAIN.	1-1/2"	1-1/4"	1/2"	1/2"
P2B	LAVATORY, INTEGRAL ADA & ANSI A117.1 COMPLIANT	SWANSTONE CV182249. 49" x 22" CONTOUR VANITY TOP. WHITE, w/MOUNTING KIT. PROVIDE WITH SYMMONS MODEL S-20-AS SINGLE LEVER FAUCET WITH GRID STRAINER DRAIN.	1-1/2"	1-1/4"	1/2"	1/2"
P3A	SHOWER SYSTEM ADA & ANSI A117.1 COMPLIANT	SWANSTONE SK-366296 BATH WALL KIT. WHITE, WITH FIBFAS452 VERTEX PERFORMIX ROLL-IN TRENCH. PROVIDE w/SYMMONS TEMPITROL PRESSURE BALANCE VALVE AND MODEL S960SPLRTRM SHOWER / HAND SHOWER TRIM.	2"	1-1/2"	1/2"	1/2"
P3B	SHOWER SYSTEM	SWANSTONE SK-366296 BATH WALL KIT. WHITE, WITH FIBAS454 VERTEX SINGLE THRESHOLD PAN. PROVIDE w/SYMMONS TEMPITROL PRESSURE BALANCE VALVE AND MODEL S960SPLRTRM SHOWER / HAND SHOWER TRIM.	2"	1-1/2"	1/2"	1/2"
P3C	DECONTAMINATION SHOWER SYSTEM ADA COMPLIANT	SYMMONS "HYDAPIPE" SURFACE MOUNTED SHOWER SYSTEM MODEL 1-401-454FSB. PRESSURE BALANCE MIXING VALVE, LEVER DIVERTER, FIXED SHOWERHEAD AND HAND SHOWER, METAL HOSE AND SLIDE BAR. 18-GAUGE STAINLESS STEEL, COVER, BRUSHED FINISH. *NOTE: CONTRACTOR SHALL REMOVE FLOW RESTRICTORS IN BOTH FIXED SHOWERHEAD AND HAND SHOWER. MODIFY COVER TO ACCOMODATE SURFACE RUN SUPPLIES.*	"	1-1/2"	1/2"	1/2"
P4	SERVICE SINK / LAUNDRY TUB	FIAT PRODUCTS MODEL FL-1. FLOOR MOUNTED. MOLDED STONE. BAKED ENAMEL STEEL LEGS. 20-1/4" x 17-1/4" x 13" DEEP INSIDE DIMENSIONS. WHITE COLOR. FAUCET SHALL BE FIAT PRODUCTS MODEL 830-AA WALL MOUNT UTILITY TYPE. 3/4" HOSE CONNECTION. WITH VACUUM BREAKER.	3"	1-1/2"	3/4"	3/4"
P5	MOP BASIN	FIAT PRODUCTS MODEL MSB-2424. MOLDED STONE. 24 x 24 x 10" HIGH. w/MOP HANGER. VINYL BUMBERGUARD. STAINLESS STEEL WALL GUARD. DOME STRAINER AND STAINLESS STEEL UNIT BASKET. w/MODEL 830-AA WALL MOUNTED SERVICE FAUCET WITH VACUUM BREAKER. INTEGRAL STOPS. ADJUSTABLE WALL BRACE. PAIL HOOD AND 3/4" HOSE THREAD SPOUT.	3"	1-1/2"	3/4"	3/4"
P6A	SINGLE BOWL SINK TOP MOUNT ADA COMPLIANT	ELKAY CELEBRITY MODEL LRAD312265. 18-GAUGE STAINLESS STEEL. TOP MOUNT. 33" x 22" OVERALL SIZE. 28" x 16" x 5-3/8" DEEP BOWL. PROVIDE WITH SYMMONS SK-660 FAUCET. ADA COMPLIANT. 8" SINGLE LEVER FAUCET WITH PULL-OUT SPRAY WAND. CHROME FINISH.	1-1/2"	1-1/4"	1/2"	1/2"
P6B	SINGLE BOWL SINK TOP MOUNT ADA COMPLIANT	ELKAY MODEL LRAD152265. 18-GAUGE TYPE 304 STAINLESS STEEL. ONE 11-1/2" x 16" x 6-1/2" DEEP BOWL. REAR CENTER DRAIN WITH BASKET STRAINER. PROVIDE WITH SYMMONS SK-660 FAUCET. ADA COMPLIANT. 8" SINGLE LEVER FAUCET WITH PULL-OUT SPRAY WAND. CHROME FINISH.	1-1/2"	1-1/4"	1/2"	1/2"
P7	BOTTLE FILLER ADA & ANSI A117.1 COMPLIANT	HALSEY TAYLOR MODEL HTHB8LMWF. WALL BOTTLE FILLER. SENSOR-ACTIVATED. FILTERED. CHILLED. 8.0 GPH CAPACITY. 115V/60 HZ. 6 FLA. (ONLY)	-	-	1/2"	-
P8	WASHING MACHINE SUPPLY & DRAIN FIXTURE.	SYMMONS W-6074 "LAUNDRY MATE". RECESSED SUPPLY & DRAIN FIXTURE. SLIDE ACTION ON/OFF CONTROL. WHITE COLOR. PAINTABLE. PROVIDE WITH SERVICE STOPS.	2"	1-1/2"	1/2"	1/2"
P9	WALL HYDRANT FREEZELESS TYPE BACKFLOW PROTECTED	WOODFORD MODEL 19. FREEZELESS. ANTI-SIPHON. BACKFLOW PROTECTED. BRASS CONSTRUCTION WITH NICKEL PLATED FINISH. METAL HANDLE. 3/4" HOSE THREAD OUTLET. SHANK LENGTH AS REQUIRED FOR WALL THICKNESS.	-	-	1/2"	-
FD-1	FLOOR DRAIN w/TRAP PRIMER	WATTS FD-100-A. EPOXY COATED CAST IRON BODY. CLAMPING COLLAR. ADJUSTABLE COLLAR w/ 6" POLISHED NICKEL-BRONZE STRAINER. 1/2" TRAP PRIMER CONNECTION AT TRAP.	3"	-	1/2"	-
FD-2	TRENCH DRAIN w/TRAP PRIMER	6" WIDE x 12" LONG TRENCH DRAIN. WATTS "DEAD LEVEL-D" PRE-SLOPED POLYPROPYLENE. w/DUCTILE IRON FRAME AND ADA DUCTILE IRON GRATE. 1/2" TRAP PRIMER CONNECTION AT TRAP.	3"	-	1/2"	-

P7 - MODEL LISTED IS ONLY ONE THAT WILL BE ACCEPTED



A M101 **LEVEL 1 - DWV PLUMBING PLAN**
SCALE: 1/8" = 1'-0"

DESCRIPTION OF OPERATION:

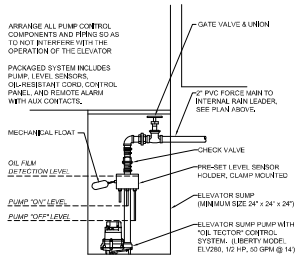
A. ON WATER RISE, THE PUMP WILL ACTIVATE WHEN THE WATER LEVEL REACHES THE "START" PROBE.

B. PUMP WILL REMAIN ON UNTIL THE WATER LEVEL IS BELOW THE "OFF" PROBE.

C. WHEN THE "OFF" PROBE NO LONGER SENSES WATER, IT TURNS THE PUMP OFF. AIR & OIL ARE IGNORED AND AN OIL LAYER (IF PRESENT) WILL NOT BE PUMPED OUT OF THE SUMP.

D. IF THE LIQUID LEVEL REACHES THE "ALARM" PROBE AND MECHANICAL FLOAT, THE SYSTEM WILL DIFFERENTIATE BETWEEN WATER AND OIL AND ACTIVATE A REMOTE ALARM.

E. THE BUILDING CONTROL SYSTEM SHALL RECEIVE AN ALARM THROUGH A SET OF AUXILARY CONTACTS.



B M101 **ELEVATOR SUMP PUMP SYSTEM SCHEMATIC**
SCALE: NONE

GENERAL NOTES:

(Applies to all Plumbing & Mech. Drawings)

1. THE CONTRACTOR SHALL CONFIRM ACTUAL CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO THE START OF WORK. WORK SHALL BE COORDINATED AMONG THE TRADES TO ENSURE INSTALLATION WILL FIT IN THE SPACE AVAILABE.
2. WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS. INSTALLATION SHALL BE IN ACCORDANCE WITH EQUIPMENT AND MATERIAL MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
3. PLANS ARE SCHEMATIC AND ONLY INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF PIPING, DUCTWORK, SYSTEMS, ETC. THE PLANS DO NOT INDICATE EACH ELBOW, OFFSET, OR TRAP THAT MAY BE REQUIRED. DUCTWORK, PIPING AND DROP LOCATIONS ARE APPROXIMATE.
4. REFER TO THE ARCHITECTURAL DRAWINGS AND FIRESTOP PENETRATIONS THROUGH FIRE-RATED WALLS, PARTITIONS AND CEILINGS.
5. DO NOT SCALE DRAWINGS.

PLUMBING NOTES:

1. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE STATE INTERNAL PLUMBING CODE.
2. MINIMUM DRAINAGE PIPE UNDERSLAB SHALL BE 2".
3. ALL REQUIRED VENT PIPING IS NOT SHOWN ON THE PLANS BUT IS REQUIRED. VENT PER PLUMBING CODE.
4. PROVIDE CLEANOUTS WHERE INDICATED AND WHERE REQUIRED BY CODE. COORDINATE CLEANOUT LOCATIONS WITH THE ARCHITECT.
5. PIPING SHALL BE RUN ON THE WARM SIDE OF THE BUILDING INSULATION IN FURRED OUT WALLS OR CHASES. COORDINATE ANY REQUIRED FURR OUTS THAT ARE NOT INDICATED WITH THE ARCHITECT.

PLUMBING FIXTURE NOTES:

1. FIXTURES SHALL HAVE STOPS ON COLD WATER AND HOT WATER SUPPLIES WHERE NOT SPECIFIED AS INTEGRAL.
2. EXPOSED FIXTURE SUPPLIES, STOPS, TRAPS, & DRAIN PIPING SHALL BE CHROME.
3. PIPE FIXTURES TO PROVIDE "HOT-ON-LEFT" & "COLD-ON-RIGHT".

REV	DATE	DESCRIPTION

Project: **MOUNT DESERT FIRE STATION #1 RENOVATION & ADDITION**
21 SEA STREET — NORTHEAST HARBOR, ME

Prepared for: Hedefine Engineering & Design, Inc. P.O. BOX 688 ELLSWORTH, ME 04605 TEL: (207) 667-4630
J.M.Kilby Engineering & A. P.O. Box 160 Burlington, ME 04417 207.732.5404

STATE OF MAINE JOHN M. KILBY No. 8722 LICENSED PROFESSIONAL ENGINEER 6-7-2022

Project #: 19027

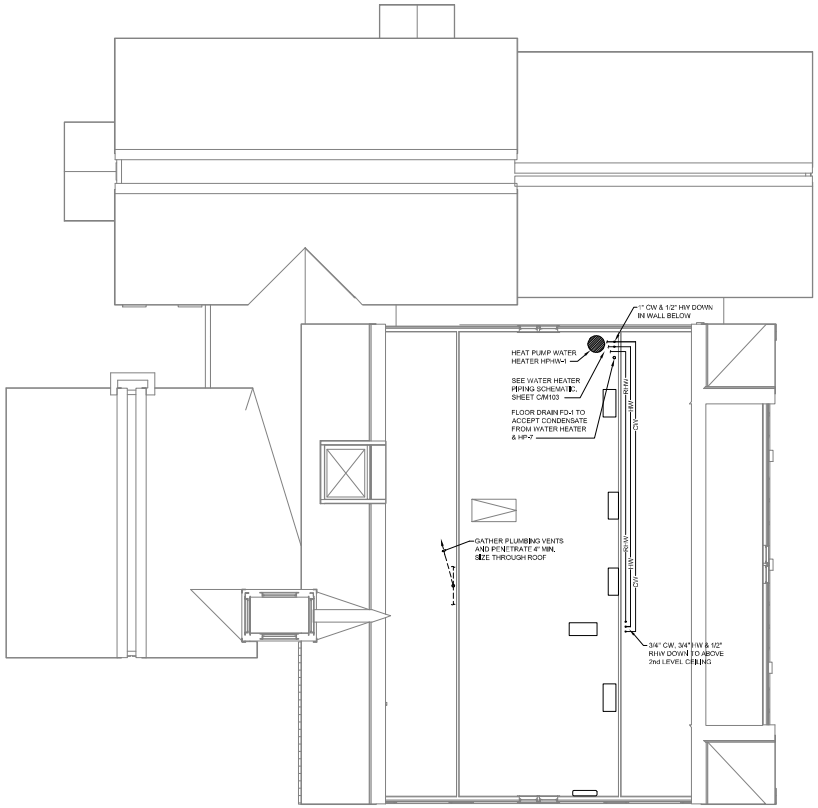
Phase: ISSUED FOR CONSTRUCTION

Scale: AS NOTED — Drawn: JMK

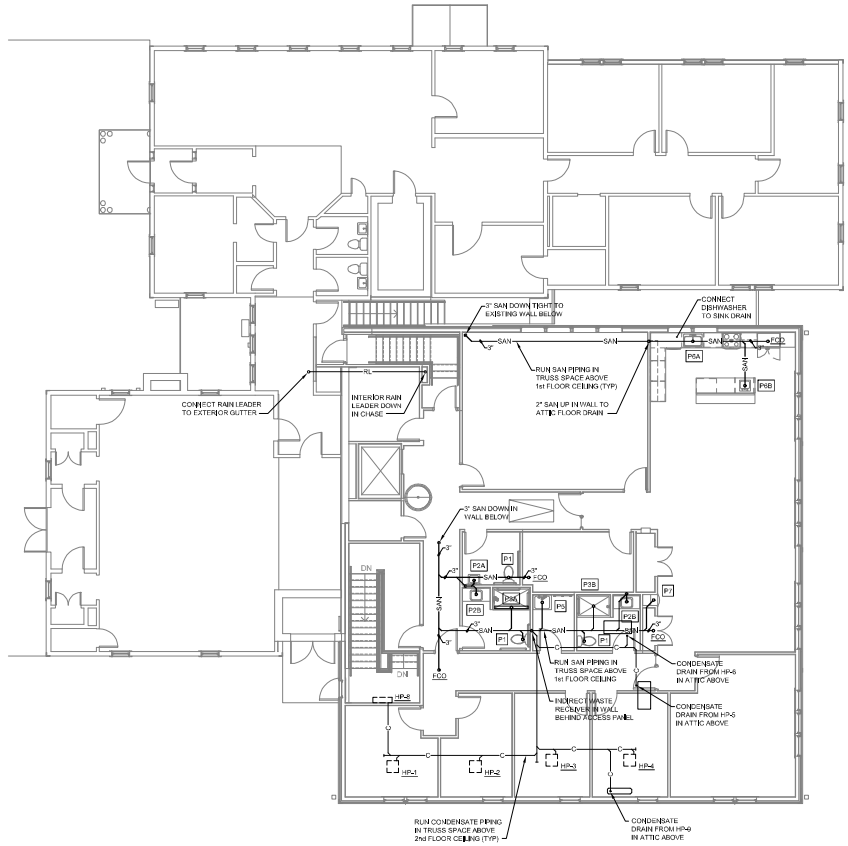
Sheet Title: *Level 1 - Plumbing Plan & Fixture Schedule*

Date: June 6, 2022

Sheet #: M101



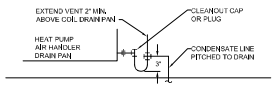
B M102 **ATTIC - PLUMBING PLAN**
SCALE: 1/8" = 1'-0"



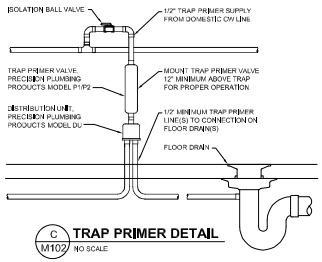
A M102 **LEVEL 2 - DWV PLUMBING PLAN**
SCALE: 1/8" = 1'-0"

CONDENSATE DRAIN NOTES:

1. GATHER CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT AND RUN TO INDIRECT WASTES OR FLOOR DRAINS PER PLUMBING CODE.
2. TRAP AIR HANDLING UNIT TYPE HEAT PUMPS PER DETAIL BELOW.
3. PROVIDE CONDENSATE LIFT PUMPS ONLY WHERE REQUIRED. GRAVITY DRAINAGE IS PREFERRED.



D M102 **CONDENSATE TRAP DETAIL**
NO SCALE



C M102 **TRAP PRIMER DETAIL**
NO SCALE

REV	DATE	DESCRIPTION

Project:
MOUNT DESERT FIRE STATION #1
RENOVATION & ADDITION
21 SEA STREET NORTHEAST HARBOR, ME

Prepared by:
Hedefine Engineering & Design, Inc.
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J.M.Kilby
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Seal: STATE OF MAINE JOHN M. KILBY No. 8722 LICENSED PROFESSIONAL ENGINEER
6-7-2022

Project #: 19027

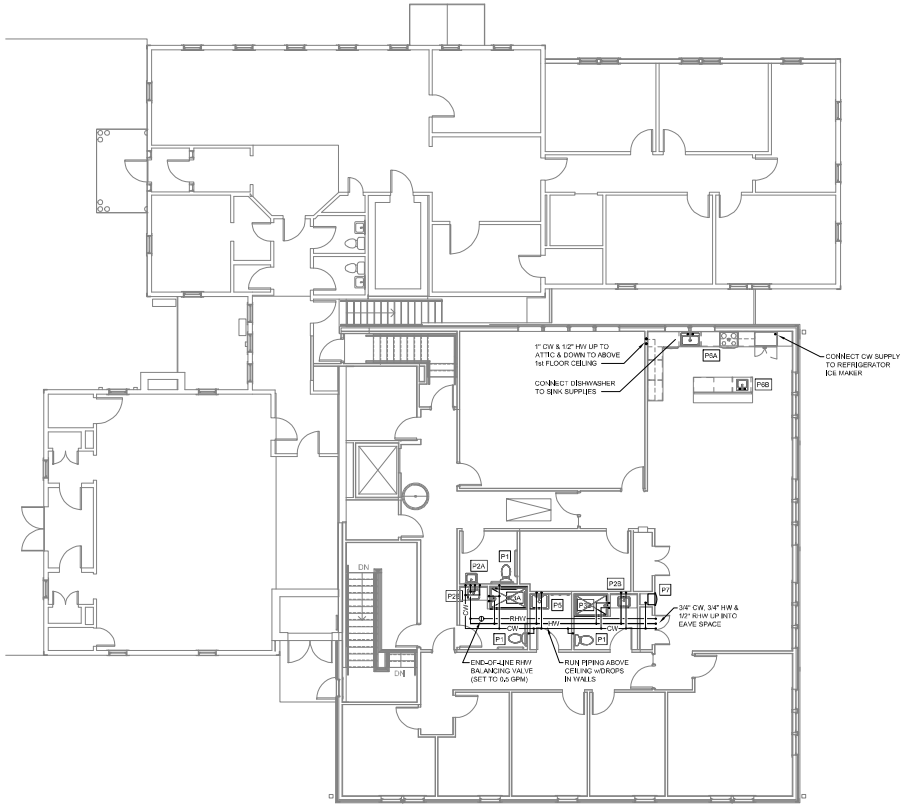
Phase: ISSUED FOR CONSTRUCTION

Scale: AS NOTED
Drawn: JMK

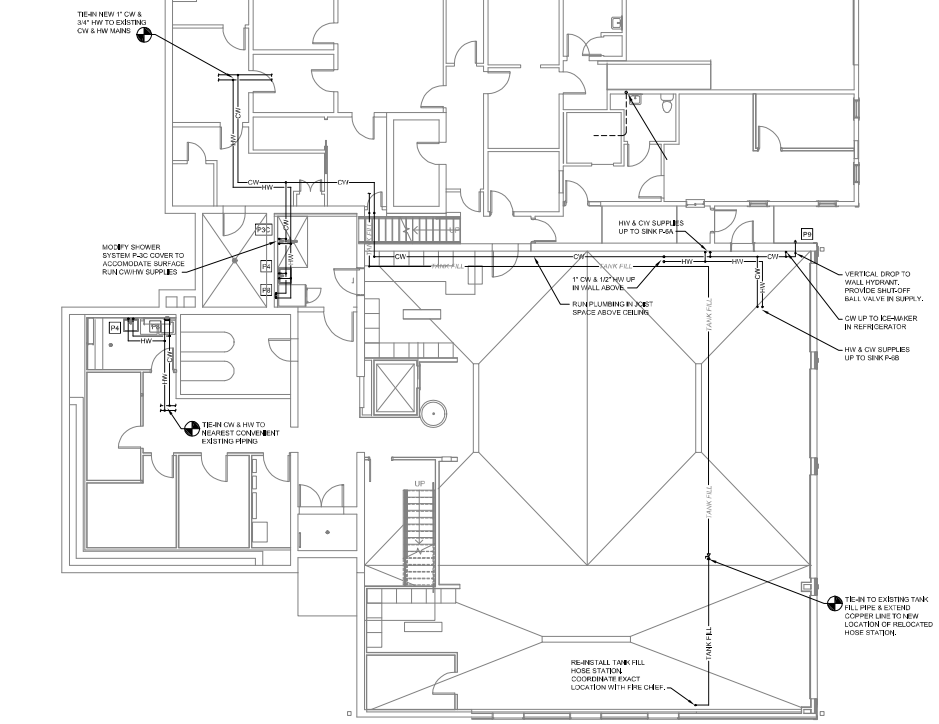
Sheet Title: *Level 2 & Attic Plumbing Plans*

Date: June 6, 2022

Sheet #: **M102**



A M103 **LEVEL 2 - DOMESTIC WATER PLUMBING PLAN**
SCALE: 1/8" = 1'-0"



A M103 **LEVEL 1 - DOMESTIC WATER PLUMBING PLAN**
SCALE: 1/8" = 1'-0"

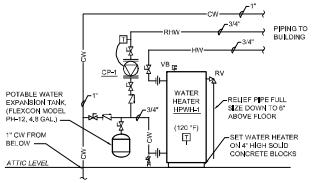
HEAT PUMP WATER HEATER PERFORMANCE SCHEDULE — BASIS OF DESIGN: RHEEM

TAG	TANK SIZE (GAL)	COMPRSR (BTU/HR)	ELEMENT (WATTS)	SOUND (dBA)	1st HOUR (GPH)	RECOVERY (GPH)	ELECTRICAL (V/PH/HZ)	MODEL
HPWH-1	72	4,200	4,500	49	87	27	208/1/60	XE80T10H45U0

1st HOUR RECOVERY BASED ON 90 °F TEMPERATURE RISE.
ENERGY STAR LISTED

DWH RECIRC PUMP PERFORMANCE SCHEDULE — BASIS OF DESIGN: GRUNDFOS

TAG	FLOW (GPM)	HEAD (FT WG)	SPEED SETTING	MOTOR HP	ELECTRICAL (V/PH/HZ)	STYLE	MODEL
CP-1	0.6	3.4	VARIABLE	1/25	120/1/60	BRONZE	UP TO-1E, 1/2" UNION CONNECTION



C M103 **WATER HEATER PIPING SCHEMATIC**
NO SCALE

REV	DATE	DESCRIPTION

Project: **MOUNT DESERT FIRE STATION #1 RENOVATION & ADDITION**
21 SEA STREET — NORTHEAST HARBOR, ME

Prepared for: Hedefine Engineering & Design, Inc.
P.O. BOX 688
ELLSWORTH, ME 04605
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Seal: STATE OF MAINE — JOHN M. KILBY No. 8722 — LICENSED PROFESSIONAL ENGINEER — 6-7-2022

Project #: 19027

Status: ISSUED FOR CONSTRUCTION

Scale: AS NOTED — Drawn: JMK

Drawing Title: *Domestic Water Plumbing Plans*

Date: June 6, 2022

Sheet #: M103

PIPING NOTES:

1. PLANS ARE SCHEMATIC. THEY DO NOT INDICATE EACH ELBOW, OFFSET, OR TRAP. PIPING AND DROP LOCATIONS ARE APPROXIMATE.
2. RUN PIPING PARALLEL WITH OR AT RIGHT ANGLES TO WALLS, EXCEPT AS OTHERWISE INDICATED.
3. PROVIDE SWING JOINTS AT MAINS AND CONNECTIONS TO RISERS. PROVIDE SWING JOINTS, EXPANSION LOOPS, AND FITTINGS AS REQUIRED TO ACHIEVE FLEXIBLE PIPING SYSTEMS.
4. INSTALL AIR VENTS AT HIGH POINTS IN CLOSED LIQUID SYSTEMS AND PITCH PIPING UNIFORMLY TO DRAIN.
5. LOCATE PIPING, VALVES AND FITTINGS TO ALLOW MAINTENANCE AND EQUIPMENT REMOVAL INCLUDING THE REMOVAL OF TUBES AND COILS.

PIPING INSULATION NOTES:

1. SEE PIPE INSULATION APPLICATION SCHEDULE IN SPECIFICATION SECTION 230711 OF THE PROJECT MANUAL.

VRV-HR SYSTEM NOTES:

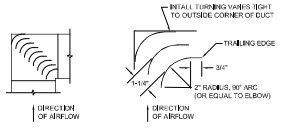
1. VARIBLE REFRIGERANT VOLUME HEAT PUMP (HEAT RECOVERY TYPE) SYSTEM (OUTSIDE UNIT, VRV INSIDE UNITS, REFRIGERANT CONNECTIONS & CONTROLS) SHALL BE BY A SINGLE MANUFACTURER AND SHALL BE COMPLETE TO PROVIDE A FULLY OPERATIONAL SYSTEM.
2. SIZE & FIELD RUN 3-LINE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BASED ON ELEVATION AND TOTAL RUN LENGTH.
3. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

DUCTWORK NOTES:

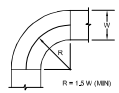
1. DUCTWORK SHALL BE TIGHT, PROPERLY SEALED, AND INSTALLED TO MINIMIZE PRESSURE DROP. THE CONTRACTOR SHALL ENSURE DUCTS ARE AS STRAIGHT AS PRACTICAL. TRANSITIONS ARE STREAMLINED, AND ELBOWS HAVE TURNING VANES OR HAVE A MINIMUM INSIDE RADIUS OF 1/3 THE DUCT WIDTH.
2. FIRE DAMPERS: INSTALL DUCTWORK & FIRE DAMPERS IN ACCORDANCE WITH NFPA 90A - *STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS*. CONFIRM FIRE RATINGS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE BALANCING DAMPERS AT EACH AIR DEVICE UNLESS DEVICE IS SPECIFIED TO HAVE INTEGRAL DAMPER.
4. THE PLANS DO NOT NECESSARILY SHOW EVERY FITTING OR OFFSET REQUIRED TO ACCOMODATE THE BUILDING STRUCTURE, CROSSING DUCTS, THE WORK OF OTHER TRADES, ETC.
5. WHERE ROUND DUCT IS INDICATED, THE CONTRACTOR MAY SUBSTITUTE THE EQUIVALENT RECTANGULAR DUCT: 6" Ø = 6 x 5, 8"Ø = 8 x 8, 10"Ø = 10 x 10, & 12" Ø = 12" x 10".
6. FLEXIBLE DUCTWORK MAY BE USED ONLY WHERE INDICATED AND SHALL NOT EXCEED 48" IN LENGTH. DO NOT INSTALL FLEXIBLE DUCT ABOVE HARD CEILINGS.
7. PROVIDE ACCESS PANELS FOR BALANCING DAMPERS, ZONE DAMPERS, FIRE DAMPERS, ETC. ABOVE HARD CEILINGS.
8. HEAT PUMP AIR HANDLING UNITS AND ENERGY RECOVERY VENTILATORS SHALL BE ISOLATED FROM DUCTWORK WITH FLEXIBLE DUCT CONNECTIONS.

DUCT INSULATION NOTES:

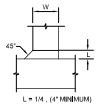
1. SEE DUCT INSULATION APPLICATION SCHEDULE IN SPECIFICATION SECTION 230711 OF THE PROJECT MANUAL.



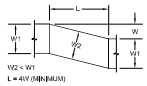
RECT. ELBOW w/ TURNING VANES



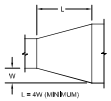
RADIUS ELBOW



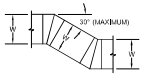
RECTANGULAR TAP



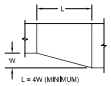
ANGLED OFFSET



CONCENTRIC TRANSITION

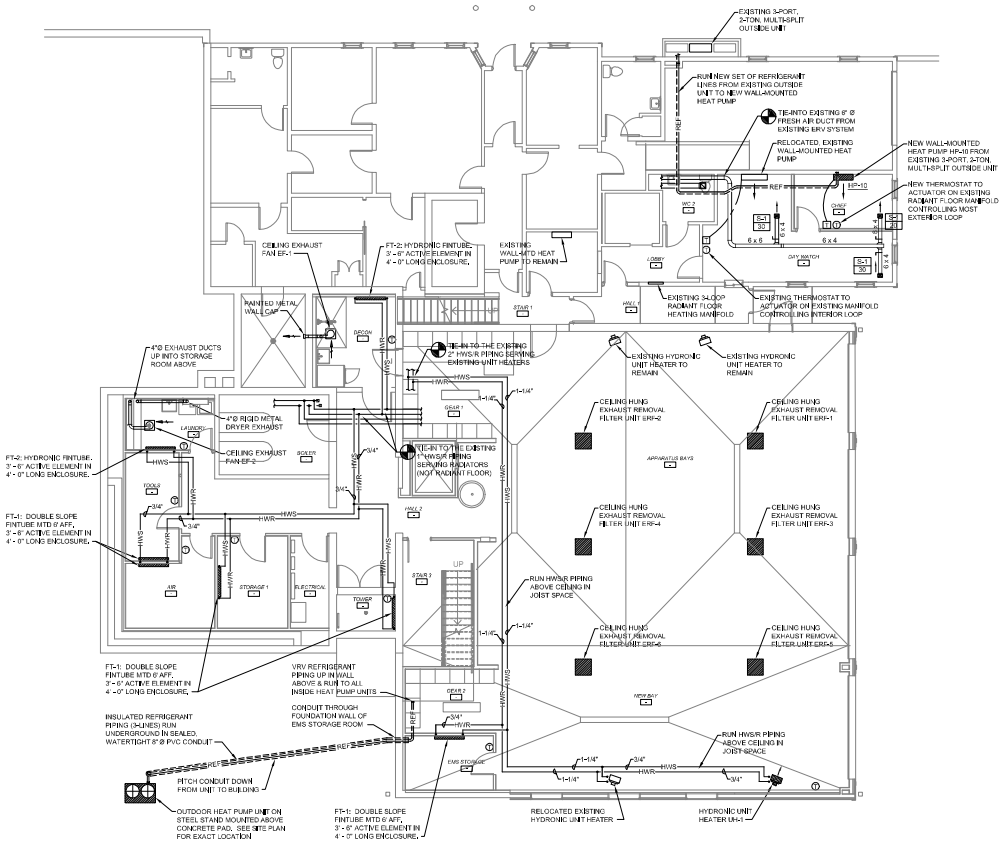


MITERED OFFSET

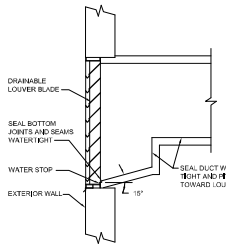


ECCENTRIC TRANSITION

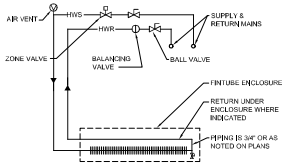
E M201 DUCT CONSTRUCTION DETAILS
NO SCALE



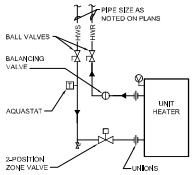
A M201 LEVEL 1 HVAC PLAN
SCALE: 1/8" = 1'- 0"



D M201 TYPICAL LOUVER DETAIL
NO SCALE



DOWNFEED FINTUBE PIPING SCHEMATIC
C M201 SCALE: NONE



UNIT HEATER PIPING SCHEMATIC
B M201 SCALE: NONE

REV	DATE	DESCRIPTION

Project: MOUNT DESERT FIRE STATION #1 RENOVATION & ADDITION
21 SEA STREET NORTHEAST HARBOR, ME

Prepared by: Hedefine Engineering & Design, Inc.
P.O. BOX 688
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207.732.5404

Seal: STATE OF MAINE JOHN M. KILBY No. 8722 LICENSED PROFESSIONAL ENGINEER
6-7-2022

Project #: 19027

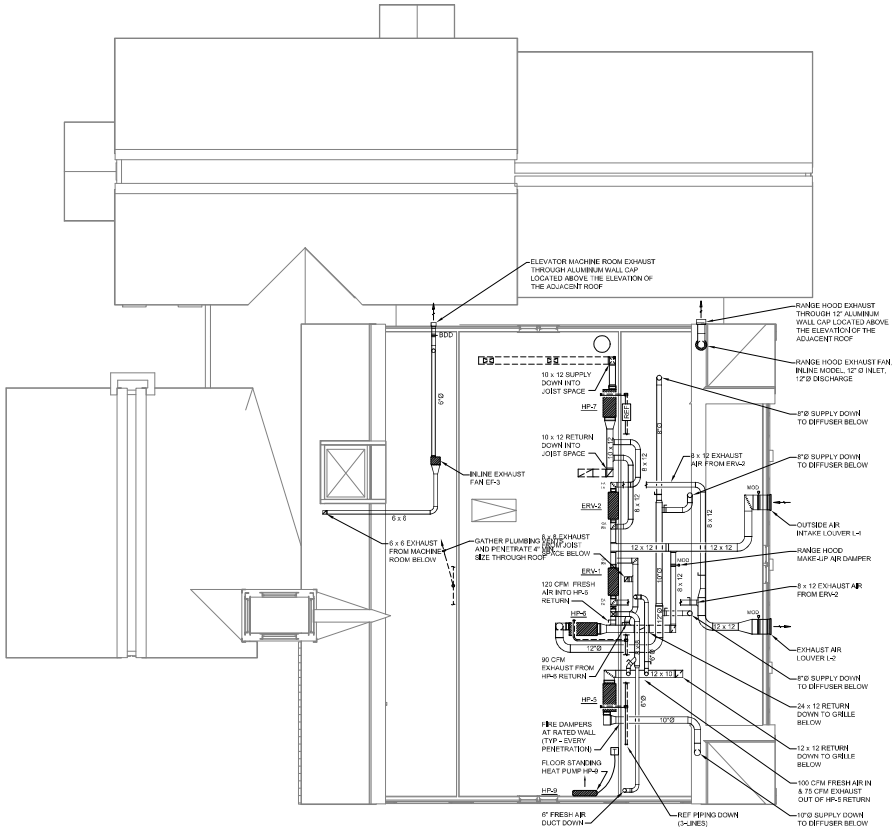
Phase: ISSUED FOR CONSTRUCTION

Scale: AS NOTED
Drawn: JMK

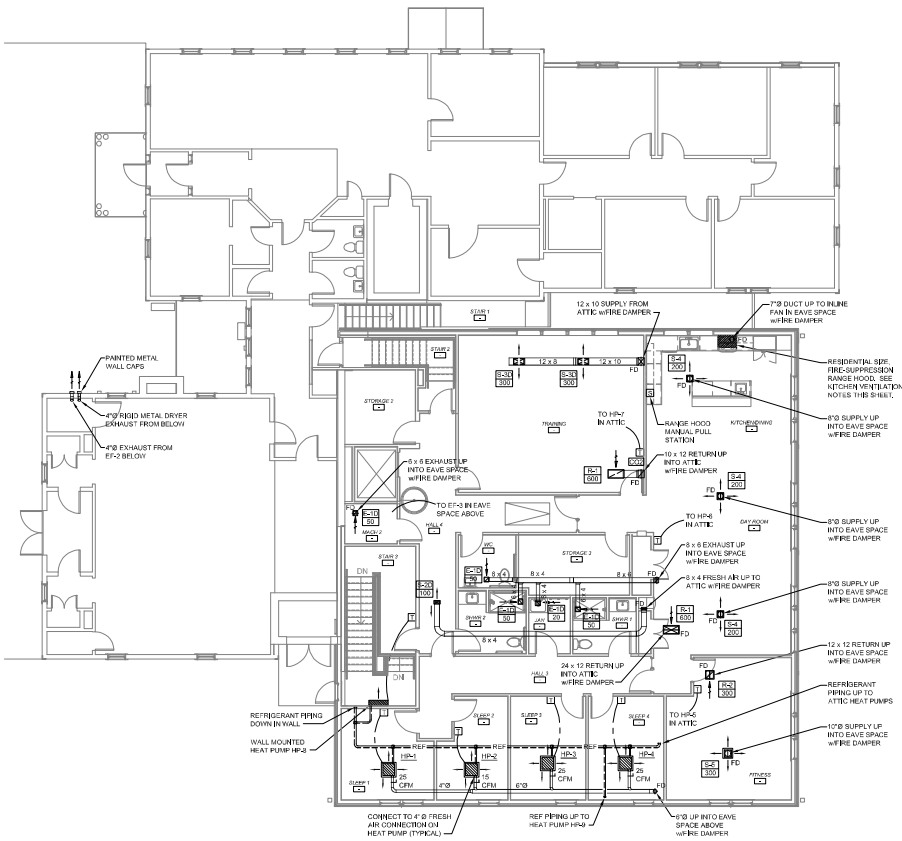
Sheet Title: *Level 1 HVAC Plan Notes & Details*

Date: June 6, 2022

Sheet #: M201



B
M202
ATTIC HVAC PLAN
SCALE: 1/8" = 1'-0"



A
M202
LEVEL 2 HVAC PLAN
SCALE: 1/8" = 1'-0"

KITCHEN VENTILATION NOTES:

1. CONTRACTOR SHALL CONFIRM THAT THE KITCHEN VENTILATION SYSTEM INDICATED AND DESCRIBED BELOW HAS BEEN ACCEPTED IN WRITING BY THE AUTHORITY HAVING JURISDICTION (AHJ).
2. THE STAINLESS STEEL KITCHEN HOOD SHALL BE A DENLAR MODEL D1030-D4F-NFPA WITH TOP DISCHARGE & REMOTE INLINE FAN. HOOD SHALL HAVE AUTOMATIC FIRE SUPPRESSION, AUTOMATIC RANGE DISCONNECT (ELECTRIC), CLOCKBOX PRO, AND REMOTE MANUAL PULL STATION.
3. PROVIDE WITH OPTIONAL NSF APPROVAL PACKAGE AND HANDICAP ACCESS CONTROLS. WHEN FIRE SUPPRESSION ACTIVATES, HOOD SHALL SEND SIGNAL TO FIRE ALARM SYSTEM AND SOUND INTERNAL 85 dBA BUZZER.
4. UPON STARTING, THE HOOD MAKE-UP AIR DAMPER CONTROL (MODEL D1080-MVCM) SHALL CAUSE RANGE MAKE-UP OUTSIDE AIR DAMPER IN THE EAVE SPACE TO OPEN. WHEN THE HOOD IS OFF, THE DAMPER SHALL BE CLOSED.

REV	DATE	DESCRIPTION

Project:
MOUNT DESERT FIRE STATION #1
RENOVATION & ADDITION
21 SEA STREET NORTHEAST HARBOR, ME

Prepared for:
Hedefine Engineering & Design, Inc.
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Seal:
STATE OF MAINE
JOHN M. KILBY
No. 8722
LICENSED
PROFESSIONAL ENGINEER
6-6-2022

Project #: 19027

Phase: ISSUED FOR CONSTRUCTION

Scale: AS NOTED
Drawn: JMK

Sheet Title: *Level 2 & Attic HVAC Plans*

Date: June 6, 2022

Sheet #: **M202**

MECHANICAL LEGEND

(Applies to all Plumbing & Mech. Drawings)

HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
CW	DOMESTIC COLD WATER PIPING
HW	DOMESTIC HOT WATER PIPING
RHW	RECIRCULATED HOT WATER PIPING
SAN	SANITARY DRAIN PIPING
V	PLUMBING VENT PIPING
GAS	LP-GAS PIPING
C	CONDENSATE DRAINAGE PIPING
REF	REFRIGERANT TUBING
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE (TACO ACCU-FLOW)
	PRESSURE REDUCING VALVE
	GLOBE VALVE
	ZONE CONTROL VALVE
	THREE WAY CONTROL VALVE
	DIRECTION OF FLOW
	PIPE CAP
	UNION CONNECTION
	CIRCULATING PUMP
	TEMPERATURE SENSOR
T	THERMOSTAT
	TEMPERATURE INDICATOR
P	PRESSURE GAUGE
	FLEXIBLE CONNECTION
AAV	AUTOMATIC AIR VENT
V	MANUAL AIR VENT
FD	FIRE DAMPER
MOD	DUCT BALANCING DAMPER
	MOTOR OPERATED DAMPER
CBBD	COUNTER BALANCED BACKDRAFT DAMPER
	SQUARE DUCT ELBOW w/ TURNING VANES
ED	DUCT SMOKE DETECTOR
SP	STATIC PRESSURE SENSOR
FC	DUCT FLEXIBLE CONNECTION
CO2	CARBON DIOXIDE SENSOR
	SUPPLY DIFFUSER W/FLEXIBLE DUCT
S-4 / 165	AIR DEVICE TAG "S" = SUPPLY "R" = RETURN OR TRANSFER "E" = EXHAUST

THIS SCHEDULE FOR EXISTING EQUIPMENT IS PROVIDED FOR INFORMATION ONLY. CONFIRM ACTUAL EQUIPMENT IN THE FIELD.

EXISTING MULTI-SPLIT OUTSIDE UNIT PERFORMANCE SCHEDULE

BASIS OF DESIGN: DAIKIN

TAG	NOMINAL TONS	TOT. CLG. (MBH)	SENS. CLG. (MBH)	SYSTEM SEER	REF TYPE	INDOOR UNIT(S)	ELECTRICAL (V/PH/HZ)	MIN CKT. (AMPS)	MODEL
CU-2	2.0	24.0	-	16.6	R-410A	AC-2,3	208-230/1/60	17.8	3MXS24JVJU

MULTI-SPLIT INSIDE HEAT PUMP PERFORMANCE SCHEDULE

BASIS OF DESIGN: DAIKIN

TAG	LOCATION	TYPE	TOT. CLG. (MBH)	SENS. CLG. (MBH)	**AIRFLOW (CFM)	**SOUND (dBA)	ELECTRICAL (V/PH/HZ)	ELECTRICAL (MCA)	MODEL
EXISTING	*DAY ROOM*	*WALL*	*11.8*	-	*388 / 293*	*45*	*208/1/60*	-	*CTXS12LVJU*
EXISTING	*AMBULANCE*	*WALL*	*7.0*	-	*332 / 149*	*38*	*208/1/60*	-	*CTXS07LVJU*
HP-10	CHIEF	WALL	7.0	-	332 / 145	38 / 22	208/1/60	0.4	CTXS07LVJU

NOTES: *HEATING CAPACITIES ARE WITH MATCHED OUTSIDE UNIT.
**AIRFLOWS & SOUND LEVELS AT HIGH / LOW SPEEDS.
***PROVIDE WITH CONDENSATE LIFT PUMP.

AIR DEVICE PERFORMANCE SCHEDULE

BASIS OF DESIGN: METALAIRE

SYMBOL	SIZE (INCHES)	STYLE	*AIRFLOW (CFM)	S.P. LOSS (IN. WG)	THROW (FEET)	NOISE CRITERION	MOUNTING	MODEL
S-1	6 x 4	GRILLE	50	0.01	7 - 9 - 12	<20	CEILING	SERIES H4004, ALUMINUM, WHITE, DOUBLE DEFLECTION, WITH LONG DIMENSION FRONT BLADES. TAGS w/ "D" INDICATES ALUMINUM OPPOSED BLADE DAMPER OBDA.
S-2D	8 x 4	GRILLE	50	0.01	6 - 8 - 11	<20	CEILING	
S-3D	16 x 8	GRILLE	306	0.02	13 - 20 - 32	10	CEILING	
S-4	9 x 9	4-WAY	225	0.05	7 - 12	<20	SURFACE	SERIES 5500 CEILING DIFFUSER, ALUMINUM, REMOVABLE CORE, WHITE FINISH w/SQUARE TO ROUND ADAPTER
S-5	12 x 12	4-WAY	300	0.03	8 - 15	<20	SURFACE	
R-1	24 x 12	RETURN	600	0.011	N/A	19	SURFACE	SERIES RH, 45° LOUVERED FACE, 2/3" SPACED DEFLECTION VANES, ALUMINUM, WHITE.
R-2	12 x 12	RETURN	300	0.011	N/A	16	SURFACE	
E-1D	6 x 6	EXHAUST	100	0.020	N/A	14	SURFACE	SERIES RH, 45° LOUVERED FACE, 2/3" SPACED DEFLECTION VANES, ALUMINUM, WHITE. TAGS w/ "D" INDICATE OPTIONAL OBDA OPPOSED BLADE ALUMINUM DAMPER

SCHEDULED AIRFLOW ARE FOR PERFORMANCE ONLY, BALANCE TO AIRFLOWS INDICATED ON THE PLANS.

SEQUENCES OF OPERATION

1. VRV HEAT RECOVERY SYSTEM:

   A. CONTROLLERS FOR THE VARIABLE REFRIGERANT VOLUME (VRV) HEAT RECOVERY SYSTEM SHALL BE SUPPLIED BY THE VRV EQUIPMENT MANUFACTURER. ONE OF THE CONTROLLERS (TO BE DETERMINED BY THE OWNER) SHALL BE DESIGNATED AS THE LEAD CONTROL AND SHALL HAVE THE FOLLOWING FUNCTIONS:

   - (7) DAY SCHEDULING WITH BATTERY BACKUP
   - RANGE LIMITS FOR ALL SECONDARY CONTROLLERS.
   - OCCUPIED SIGNAL TO ERV-1

   B. THE INSIDE UNITS SHALL HEAT OR COOL THE SPACES SUBJECT TO THEIR OWN WALL-MOUNTED TEMPERATURE CONTROLLER. HEATING SETPOINTS SHALL TYPICALLY BE 70 °F (ADJUSTABLE) AND COOLING SETPOINTS SHALL BE 75 °F (ADJUSTABLE).

   C. HEAT PUMPS HP-5 & HP-6 FANS ARE INTENDED TO RUN CONTINUOUSLY WHENEVER THE BUILDING IS OCCUPIED TO DISTRIBUTE VENTILATION AIR TO THE SPACES SERVED.

   D. HEAT PUMP HP-6 HAS A SUPPLIMENTAL ELECTRIC HEATER WHICH SHALL BE CONTROLLED BY THE VRV-HR CONTROLS.

2. ENERGY RECOVERY VENTILATORS:

   A. ERV-1 SHALL RUN WHENEVER THE BUILDING IS OCCUPIED OR WHEN A "VENTILATION" SWITCH IS "ON" IN ANY OF THE TWO SHOWER ROOMS OR 2nd FLOOR TOILET ROOM. IF THE BUILDING IS UNOCCUPIED AND ALL THE "VENTILATION" SWITCHES IN THE SHOWER/TOILET ROOMS ARE "OFF", THEN ERV-1 SHALL NOT RUN.

   B. ERV-2 SHALL RUN WHEN THE TRAINING ROOM CARBON DIOXIDE SENSOR (CO2) SENSES A CARBON DIOXIDE LEVEL ABOVE SETPOINT (800 PPM, ADJUSTABLE) OR WHEN A MANUAL ON/OFF VENTILATION SWITCH IS IN THE "ON" POSITION. IF THE CARBON DIOXIDE LEVEL IS BELOW SETPOINT AND THE SWITH IS "OFF", THEN ERV-2 SHALL NOT RUN.

   C. TWO-POSITION, MOTORIZED ISOLATION DAMPERS ON THE OUTSIDE AIR INTAKE AND EXHAUST AIR DAMPERS SHALL OPEN PRIOR TO EITHER ERV OR THE RANGE HOOD EXHAUST FAN STARTING AND SHALL CLOSE IF BOTH ERVS AND THE RANGE HOOD EXHAUST FAN SHUTS DOWN.

3. MULTI-SPLIT HEAT PUMP:

   A. THE NEW HEAT PUMP INSTALLED ON THE EXISTING MULTI-SPLIT OUTSIDE UNIT SHALL OPERATE FROM A WALL-MOUNTED TEMPERATURE SENSOR/CONTROLLER SET UP PER THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS. THE TYPICAL COOLING SETPOINT SHALL BE (74 °F, ADJUSTABLE).

   B. AIR CONDITIONING LOCK-OUT: AS WITH THE OTHER (2) EXISTING INSIDE UNITS ON THIS SYSTEM, WHEN THE EXISTING HEATING SYSTEM IS ENABLED, THE HEAT PUMP SHALL BE DISABLED BY A RELAY IN THE POWER SUPPLY.

4. HYDRONIC UNIT HEATERS:

   A. WHEN A LOCAL THERMOSTAT FALLS BELOW SETPOINT (60 °F, ADJUSTABLE), THE ASSOCIATED ZONE VALVE SHALL OPEN ALLOWING FLOW. THE BLOWER SHALL START SUBJECT TO A LOCALLY MOUNTED AQUASTAT SENSING THAT HEATING WATER IS AVAILABLE (110 °F SETPOINT, ADJUSTABLE). WHEN THE SENSOR IS SATISFIED, THE ASSOCIATED ZONE VALVE SHALL CLOSE AND THE BLOWER SHALL SHUTDOWN.

5. FINTUBE RADIATION:

   A. WHEN A ROOM TEMPERATURE SENSOR FALLS BELOW SETPOINT (60 °F, ADJUSTABLE), THE ASSOCIATED ZONE VALVE SHALL OPEN ALLOWING FLOW. WHEN THE SENSOR IS SATISFIED, THE ASSOCIATED ZONE VALVE SHALL CLOSE.

6. EXHAUST FANS:

   A. EXHAUST FANS EF-1 & EF-2, EF-4 SHALL OPERATE FROM A DEDICATED WALL SWITCH. WHEN THE SWITCH IS "ON", THE FAN SHALL RUN. WHEN THE SWITCH IS "OFF" THE FAN SHALL BE OFF.

   EXHAUST FAN EF-3: A COOLING THERMOSTAT IN THE ELEVATOR MACHINE ROOM SHALL START THE FAN WHEN THE ROOM TEMPERATURE RISES ABOVE SETPOINT (85 °F, ADJUSTABLE). WHEN THE TEMPERATURE FALLS BELOW SETPOINT, THE FAN SHALL SHUT DOWN.

7. EXISTING RADIANT FLOOR HEAT:

   A. A NEW THERMOSTAT IN THE CHIEF'S OFFICE SHALL OPERATE A LOOP ACTUATOR ON THE MOST EXTERIOR ZONE OF THE EXISTING RADIANT FLOOR SYSTEM. WHEN FALLING BELOW SETPOINT (68 °F, ADJUSTABLE), THE ACTUATOR SHALL OPEN. WHEN THE THERMOSTAT IS SATISFIED, THE ACTUATOR SHALL CLOSE.

8. RANGE HOOD MAKE-UP AIR:

   A. WHEN THE RANGE HOOD EXHAUST FAN STARTS, THE HOOD CONTROLLER SEND AN OUTPUT SIGNAL CAUSING A MOTORIZED DAMPER TO OPEN ALLOWING DIRECT OUTSIDE AIR INTAKE TO THE RETURN DUCT OF HEAT PUMP HP-4.

   B. WHEN THE HOOD FAN STOPS, THE OUTSIDE AIR DAMPER SHALL CLOSE.

9. DOMESTIC HOT WATER RECIRCULATION:

   A. THE DOMESTIC HOT WATER RECIRCULATION PUMP SHALL RUN CONTINUOUSLY.

10. VEHICLE EXHAUST REMOVAL SYSTEM:

   A. THE EXHAUST REMOVAL FILTER UNITS SHALL BE CONTROLLED FROM THE MANUFACTURER SUPPLIED CONTROL PANEL.

   B. THE SYSTEM SHALL ACTIVATED BY TWO METHODS: SPRING WOUND TIMER(S) AND VEHICLE IGNITION WIRE TRANSMITTERS / RECEIVERS.

VRV OUTSIDE HEAT PUMP PERFORMANCE SCHEDULE

BASIS OF DESIGN: DAIKIN VRV-4V HEAT RECOVERY

TAG	NOMINAL TONS	TOT. CLG. (MBH)	TOT. CLG. (MBH)	HEATING (MBH)	SYSTEM SEER	REF TYPE	INDOOR UNIT(S)	ELECTRICAL (V/PH/HZ)	MIN CKT. (AMPS)	MODEL
HP-0	8.0	90.0	100.0	21.00	21.00	R-410A	HP-1 TO -6	208/3/60	38.00	REYQ96TTJU

PERFORMANCE BASED ON TERMINAL UNITS INDICATED ON PLANS AND SCHEDULED BELOW,
95 °F OUTSIDE AMBIENT (COOLING), 80 °F DB / 67 °F WB INSIDE TEMPERATURE. HEATING
PERFORMANCE BASED ON 22 °F OUTSIDE TEMPERATURE AND 70 °F INSIDE. HEATING OPERATION
TO -22 °F.

PROVIDE WITH ALL REQUIRED REFRIGERANT PIPING, BRANCH KITS, CONTROLS AND ANY OTHER
ITEMS NEED FOR FULLY COMPLETE AND OPERATING SYSTEMS.

VRV INSIDE UNIT PERFORMANCE SCHEDULE

BASIS OF DESIGN: DAIKIN VRV-4V

TAG	TYPE	TOT. CLG. (MBH)	SENS. CLG. (MBH)	HEATING (MBH)	AIRFLOW (CFM)	**SOUND (dBA)	ELECTRICAL (V/PH/HZ)	ELECTRICAL (MCA)	MODEL
HP-1	CASSETTE	5.8	4.7	6.5	300 / 229	32 / 26	208/1/60	0.3	FXZQ05TAVJU
HP-2	CASSETTE	5.8	4.7	6.5	300 / 229	32 / 26	208/1/60	0.3	FXZQ05TAVJU
HP-3	CASSETTE	5.8	4.7	6.5	300 / 229	32 / 26	208/1/60	0.3	FXZQ05TAVJU
HP-4	CASSETTE	5.8	4.7	6.5	300 / 229	32 / 26	208/1/60	0.3	FXZQ05TAVJU
HP-5	AHU	12.0	9.9	13.5	400 / 280	45	208/1/60	4.9	FXTQ12TAVJUA
HP-6	AHU	18.0	12.7	20.0	600 / 420	45	208/1/60	33.3	FXTQ18TAVJUA w/8 kW AUXILIARY HEAT
HP-7	AHU	18.0	12.7	20.0	600 / 420	45	208/1/60	4.9	FXTQ18TAVJUA
HP-8	WALL	7.5	6.4	8.5	260 / 160	35 / 31	208/1/60	0.4	FXAQ07PVJU
HP-9	FLOOR	7.5	5.8	8.5	246 / 210	35 / 32	208/1/60	0.3	FXLQ07MVJU

NOTES: - COOLING CAPACITIES ARE AT 80 °F DB / 67 °F WB INSIDE AND 95 °F OUTSIDE
- HEATING CAPACITIES ARE AT 70 °F INSIDE AND 47 °F OUTSIDE DB
- AIRFLOWS & SOUND LEVELS AT HIGH / LOW SPEEDS.
- PROVIDE UNITS WITH WIRED WALL-MOUNTED REMOTE CONTROLLERS.
- PROVIDE WALL UNITS WITH CONDENSATE LIFT PUMPS AS NECESSARY.

ENERGY RECOVERY VENTILATOR SCHEDULE

BASIS OF DESIGN: RENEWAIRE

TAG	*EXHAUST (CFM)	*SUPPLY (CFM)	EA E.S.P. (IN. WG)	SA E.S.P. (IN. WG)	TEMP. EFF. (%)	MOTORS	ELECTRICAL (V/PH/HZ)	ELECTRICAL (AMPS)	MODEL
ERV-1	450	450	0.64	0.64	72%	2	208-230/1/60	6.4 MCA	EV450N-ECM
ERV-2	450	450	0.64	0.64	72%	2	208-230/1/60	6.4 MCA	EV450N-ECM

NOTES: -AIRFLOW IS FOR PERFORMANCE ONLY. ADJUST MOTOR SPEEDS TO ACHIEVE AIRFLOWS INDICATED ON PLANS
-PROVIDE ERV-1 & 2 WITH OPTIONAL DOUBLE WALL CONSTRUCTION, FLANGE KIT, REMOTE POTENTIOMETER SPEED CONTROL SQ-ECM
-PROVIDE ERV-1 & 2 WITH WALL MOUNTED DIGITAL TIME CLOCK MODEL TCT70-HY

LOUVER PERFORMANCE SCHEDULE

BASIS OF DESIGN: AWV

TAG	SIZE (INCHES)	AIRFLOW (CFM)	S.P. LOSS (IN. WG)	FREE AREA (SQ. FT.)	DRAINABLE (Y OR N)	SERVICE	MODEL/OPTIONS
L-1	24W x 18H	800	0.06	1.18	YES	INTAKE	EL-24 w/BIRD SCREEN & KYNAR FINISH
L-2	24W x 18H	800	0.06	1.18	YES	EXHAUST	EL-24 w/BIRD SCREEN & KYNAR FINISH

NOTES: COLOR SELECTION BY ARCHITECT

EXHAUST REMOVAL SYSTEM PERFORMANCE SCHEDULE

BASIS OF DESIGN: AIR VACUUM CORPORATION

TAG	SIZE (W x D x H)	AIRFLOW (CFM)	FILTRATION STAGE 1	FILTRATION STAGE 2	FILTRATION STAGE 3, 4	MOTOR HP.	ELECTRICAL (V/PH/HZ)	ELECTRICAL FLA	MODEL
ERF-1	26"x25"x35"	2,000	PRE-FILTER	MERV-16	GAS EXTRACTOR	3/4	208/1/60	6.5	AIRVAC 911 SYSTEM
ERF-2	26"x25"x35"	2,000	PRE-FILTER	MERV-16	GAS EXTRACTOR	3/4	208/1/60	6.5	AIRVAC 911 SYSTEM
ERF-3	26"x25"x35"	2,000	PRE-FILTER	MERV-16	GAS EXTRACTOR	3/4	208/1/60	6.5	AIRVAC 911 SYSTEM
ERF-4	26"x25"x35"	2,000	PRE-FILTER	MERV-16	GAS EXTRACTOR	3/4	208/1/60	6.5	AIRVAC 911 SYSTEM
ERF-5	26"x25"x35"	2,000	PRE-FILTER	MERV-16	GAS EXTRACTOR	3/4	208/1/60	6.5	AIRVAC 911 SYSTEM
ERF-6	26"x25"x35"	2,000	PRE-FILTER	MERV-16	GAS EXTRACTOR	3/4	208/1/60	6.5	AIRVAC 911 SYSTEM

PROVIDE WITH AVC-6C/22 ZONED CONTROL PANEL TO CONTROL UNITS.
PROVIDE WITH VEHICLE IGNITION WIRELESS TRANSMITTERS & RECEIVERS AND INSTALL ON (6) VEHICLES.

UNIT HEATER PERFORMANCE SCHEDULE

BASIS OF DESIGN: MODINE

TAG	CAPACITY (MBH)	AIRFLOW (CFM)	MTG. HT. (FEET)	THROW (FEET)	WTR FLOW (GPM)	W.P.D. (FT. WG)	MOTOR HP	ELECTRICAL (VPH/HZ)	MODEL
UH-1	18.6	630	10 ±	23	2.3	0.2	1/25	120/1/60	HC-33 w/FINGERPROOF FAN GUARD

*NOTE: PERFORMANCE BASED ON 180 °F ENTERING WATER TEMPERATURE & 60 °F ENTERING AIR.

FINTUBE RADIATION PERFORMANCE SCHEDULE

BASIS OF DESIGN: SLANTFIN

TAG	ELEMENT LENGTH	MTG HEIGHT (INCHES)	*OUTPUT (BTU/HR/FT)	FIN SIZE (INCHES)	FINS PER FOOT	MODEL/OPTIONS
FT-1	PER PLANS	6" ABOVE FLOOR	538	4-1/4 SQ.	40	MODEL 1BG-17, TOP & BOTTOM SLOPE COVER, 16-GAUGE, WITH SINGLE-TIER C-340 ELEMENT, WHITE FINISH.
FT-2	PER PLANS	6" ABOVE FLOOR	538	4-1/4 SQ.	40	MODEL MULTI-PAK 65, FLAT TOP FIN TUBE, 16-GAUGE COVER WITH SINGLE-TIER C-340 ELEMENT, WHITE FINISH.

*OUTPUT BASED ON 65°F ROOM TEMPERATURE, 140 °F ENTERING WATER TEMPERATURE AND 3 FT/SEC WATER FLOW.
PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.

EXHAUST FAN PERFORMANCE SCHEDULE

BASIS OF DESIGN: LOREN COOK

TAG	AIRFLOW (CFM)	E.S. P. (IN. WG)	MOTOR HP	SOUND (SONES)	ELECTRICAL (V/PH/HZ)	DESCRIPTION	MODEL
EF-1	63	0.25	FRAC	1.0	115/1/60	DECON	GC-126, ALUMINUM GRILLE
EF-2	63	0.25	FRAC	1.0	115/1/60	LAUNDRY	GC-126, ALUMINUM GRILLE
EF-3	50	0.25	FRAC	1.0	115/1/60	ELEV. MACHINE	GH-120, INLINE

PROVIDE "VARI-SPEED" FAN SPEED CONTROLLER FOR EACH FAN. BALANCE TO AIRFLOWS INDICATED ON THE PLANS.

REV	DATE	DESCRIPTION

Project: **MOUNT DESERT FIRE STATION #1 RENOVATION & ADDITION**

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Sheet Title: *Mechanical Schedules, Sequences & Legend*

Date: June 6, 2022

Sheet #: M301

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
EG	EQUIPMENT GROUND
EH	ELECTRICALLY HELD
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
EX	EXTERIOR
FA	FIRE ALARM
FC	FOOT-CANDLE
FDR	FEEDER
FLUOR	FLUORESCENT
FS	FLOW SWITCH (FA SYSTEM)
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	HAND HOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILO VOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LSW	LIGHT SWITCH
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MH	METAL HALIDE
EMH	ELECTRICAL MANHOLE
MLO	MAIN LUGS ONLY
MO	MECHANICALLY OPERATED
MOD	MOTOR OPERATED DAMPER
MTS	MANUAL TRANSFER SWITCH
MV	MERCURY VAPOR
MVA	MEGAVOLT-AMPERE
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
OH	OVERHEAD
OL	OVER LOAD
OOA	ON-OFF-AUTOMATIC
OSY	OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
P	POLE
PB	PUSH BUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RGSC	RIGID GALVANIZED STEEL CONDUIT
RVSS	REDUCED VOLTAGE SOLID STATE
RSC	RIGID STEEL CONDUIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
S	SIGNAL
SEC	SECONDARY
SHLD	SHIELDED CABLE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
T	TELEPHONE
TR	TRANSFORMER
TBD	TO BE DETERMINED
TD	TELEDIALER
TDR	TIME DELAY RELAY
TEL	TELEPHONE
TM	TELEMETRY
UG	UNDERGROUND
UT	UTILITY
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT HOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
XLP	CROSS LINKED POLYETHYLENE
XP	EXPLOSION PROOF

POWER SYMBOLS

- CIRCUIT BREAKER
- GROUND CONNECTION
- GROUND BAR
- LP1-2 — HOME RUN TO PANEL (CKT. NO. AS SHOWN)
- TRANSFORMER
- CT — CURRENT TRANSFORMER
- PT — POTENTIAL TRANSFORMER
- 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF
- USB — 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF WITH INTERNAL USB PORTS
- 20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT SINGLE RECEPTACLE
- 20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF
- XX — OTHER POWER RECEPTACLE NEMA DESIGNATION AS NOTED
- HP — MOTOR
- J — JUNCTION BOX
- P — POWER POLE CONNECTION TO MODULAR FURNITURE WHIP
- T — TRANSFORMER
- CB XX — CIRCUIT BREAKER SIZED AS NOTED
- ELECTRICAL PANEL
- BD — BUS DUCT AMPERE RATING AS NOTED
- FLOOR RECEPTACLE CONDUIT INSTALLED IN SLAB
- X — RECEPTACLE/DATA BOX
  - F = FLOOR MOUNTED
  - W = WALL MOUNTED
- J 200/3 — UNFUSED SAFETY SWITCH, RATING AS NOTED
  - POLES
  - AMPERES
- 3R F XXAF XXAT — FUSED SAFETY SWITCH, RATING AS NOTED
  - FRAMESIZE
  - FUSE/TRIP
  - NEMA RATING
- MAGNETIC MOTOR STARTER, RATING AS NOTED
- M — MANUAL TOGGLE OPERATED MOTOR STARTER
- M — SMOKE DAMPER TOGGLE
- ELECTRIC ACTUATED VALVE
- M — MOTOR CONTACTOR
- CONTACT NORMALLY OPEN
- CONTACT NORMALLY CLOSED
- SELECTOR SWITCH
- TEMPERATURE SWITCH
- R — PILOT LIGHT

FIRE ALARM SYMBOLS

- F — PULL STATION
- XX — FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
- XX — STROBE UNIT XX= CANDELA
- 120V XX — NON-SYSTEM STROBE UNIT
- LF — LOW FREQUENCY MINI HORN UNIT
- SD — SMOKE DETECTOR
- FIXED TEMP HEAT DETECTOR (135F OR 200F)
- CO — CARBON MONOXIDE DETECTOR
- FACP — FIRE ALARM CONTROL PANEL
- VECP — VOICE EVACUATION SYSTEM COMMAND PANEL
- ANN — ANNUNCIATOR
- DD — DIGITAL COMMUNICATOR
- MB — MASTER BOX
- SD D — DUCT SMOKE DETECTOR
- T — REMOTE TEST STATION
- TS — SPRINKLER TAMPER SWITCH
- FS — SPRINKLER FLOW SWITCH
- PS — SPRINKLER PRESSURE SWITCH
- MM — MONITOR MODULE
- CM — CONTROL MODULE
- 120V SD — NON-SYSTEM SMOKE DETECTOR
  - STR = DENOTES INTEGRAL STROBE FOR H/C UNITS
- L — RED MASTER BOX LIGHT
- KB — KNOX BOX, FBO
- EXT — HOOD EXT SYSTEM
- DH — DOOR HOLDER
- FCPS — SIGNAL POWER EXTENDER

SYSTEMS SYMBOLS

- X — COMBINATION VOICE/DATA SYSTEM OUTLET PROVIDE (2) DATA/(1) PHONE CAT6
  - W = WALL PHONE, MOUNTED 42" AFF.
- COMBINATION VOICE/DATA SYSTEM OUTLET IN FLOOR BOX. FURNISH 1" CONDUIT IN SLAB
- WAP — CEILING MOUNTED JACK FOR WIRELESS ACCESS POINT.
- TV — CATV JACK
- DS — SECURITY SYSTEM DOOR SWITCH
- EL — ELECTRIC DOOR LOCK SET
- KP — SECURITY SYSTEM CARD ACCESS PAD
- SP — INTERCOM SYSTEM SPEAKER
- INT — INTERCOM MASTER STATION
- CABLE TRAY
- PUSH BUTTON
- DB — DOOR BELL
- CR — CARD READER
- X C — CAMERA
  - 4D = 4 CAMERA DOME
- ADO — AUTOMATIC DOOR OPENER
- REX — REQUEST TO EXIT
- ES — ELECTRIC STRIKE

LIGHTING SYMBOLS

- X — LIGHT FIXTURE
- X — LIGHT FIXTURE W/ EMERGENCY BATTERY BALLAST
- X — WALL MOUNTED LIGHT FIXTURE
- X — PENDANT MOUNTED LIGHT FIXTURE
- X — STRIP/WRAP LIGHT FIXTURE
- X — EXTERIOR WALL-PACK
- X — ROUND RECESSED CEILING MOUNTED FIXTURE
- X — SURFACE MOUNTED FIXTURE
- X — WALL MOUNTED LIGHTING FIXTURE
- X — WALL SCONCE
- X — TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY)
- EMERGENCY LED EXIT SIGN
- COMBINATION EMERGENCY EXIT SIGN & LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
- EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
- WP — REMOTE EMERGENCY LIGHTING LAMP HEAD
  - WATER PROOF
- Sx a — LIGHT SWITCH
  - DENOTES FIXTURE SWITCHED
  - D = DIMMER (WHERE NOTED)
  - 3 = 3-WAY (WHERE NOTED)
  - 4 = 4-WAY (WHERE NOTED)
  - P = PILOT LIGHT (WHERE NOTED)
  - T = TIMER SWITCH
- $LV — LOW VOLTAGE LIGHT SWITCH
- X — ULTRASONIC/INFRARED OCCUPANCY SENSOR
  - C = CEILING MOUNTED
  - W = WALL MOUNTED 48" AFF (TO TOP)
  - CR = CORNER MOUNTED
  - WD = WALL MOUNTED DIMMER 48" AFF (TO TOP)
- TC — TIME CLOCK
- LC — LIGHTING CONTACTOR
- PC — PHOTOCELL

GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
3. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
4. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
5. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
6. DEVICE COVERPLATES SHALL BE THERMOPLASTIC NYLON TYPE WITH IVORY FINISH IN ALL FINISHED SPACES. MECHANICAL ROOMS, ELECTRICAL ROOM, AND UTILITY ROOMS SHALL BE FURNISHED WITH BRUSHED STAINLESS STEEL COVERPLATES.
7. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
8. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.
9. MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS FOLLOWS:
   CONVENIENCE RECEPTACLES: 18" AFF TO BOTTOM OF BOX
   LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF BOX
   FIRE ALARM AUDIO/VISUAL DEVICES: 80" AFF OR 6" BELOW CEILING TO TOP OF DEVICE.
   FIRE ALARM PULL STATIONS: 48" TO TOP OF BOX.

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REV.	DESCRIPTION	DATE

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CURRENT ISSUE STATUS: 6/6/2022

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STATE OF MAINE — TIMOTHY D. MATTHEWS — No. 9159 — LICENSED PROFESSIONAL ENGINEER

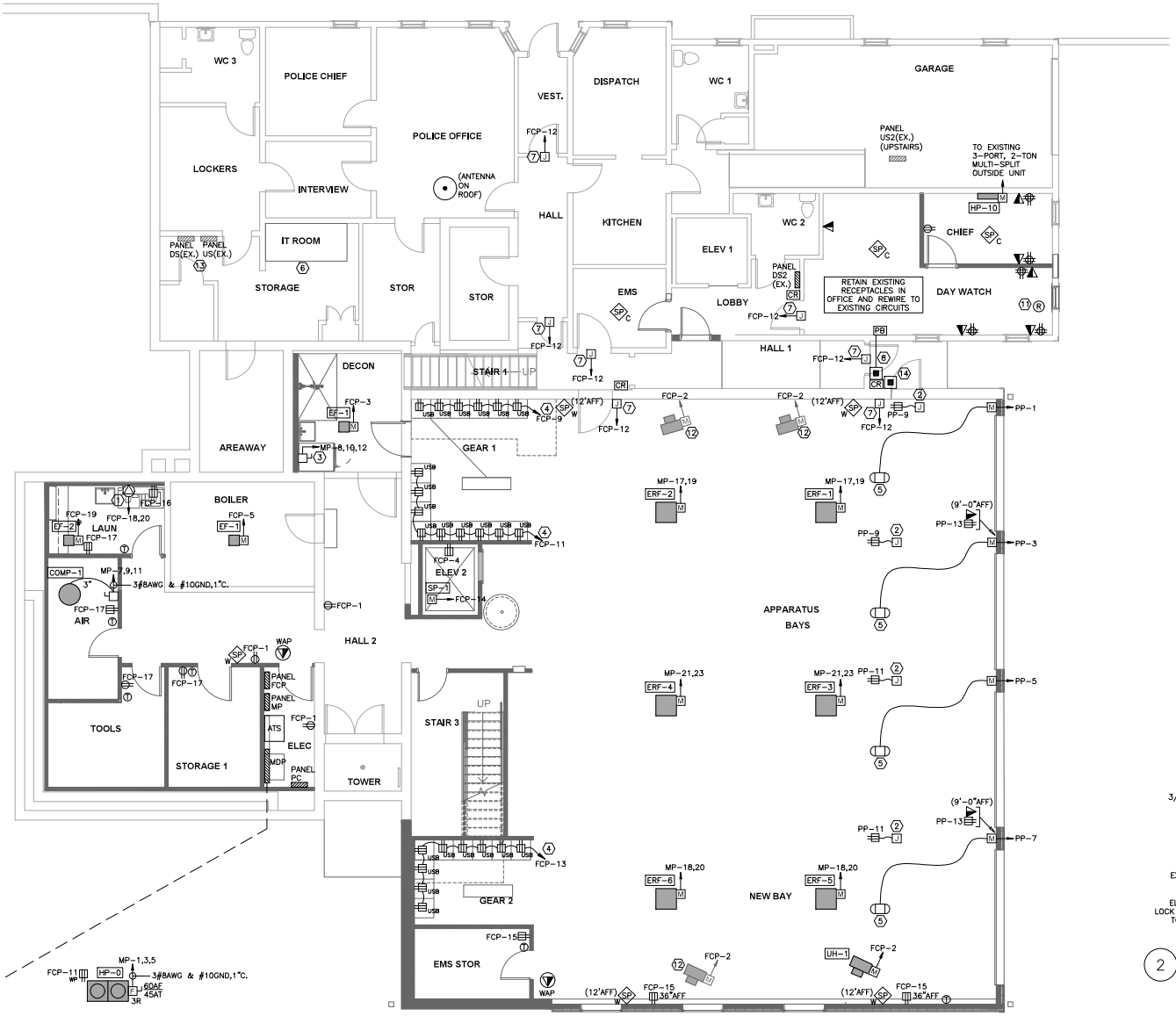
DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

MDFD Station 1 Renovation & Addition

ELECTRICAL GENERAL NOTES & LEGEND

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN BY	JMD
CHECKED BY	TDM

E000



1 ELECTRICAL POWER & SYSTEMS PLAN – FIRST FLOOR

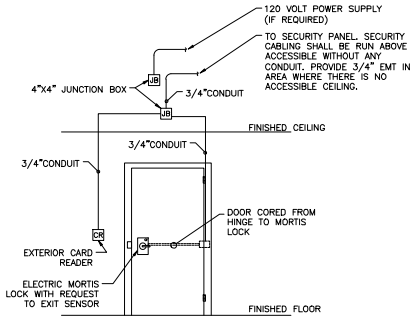
SCALE: 3/16" = 1

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1. DRYER. NEMA 6-30R RECEPTACLE. WIRING 3#10AWG & #10GND.
2. CEILING MOUNTED ELECTRICAL DROPS. MOUNT TWIST-LOCK RECEPTACLE AT CEILING WITH RETRACTABLE CORD FOR PLUG LOCATED ON EACH TRUCK'S DRIVER'S SIDE. CABLE ASSEMBLY SHALL BE AS MANUFACTURED BY HUBBELL MODEL HBL125123C20. PLUG TO BE NEMA 5-20R.
3. INDUSTRIAL WASHER WITH EXTRACTOR. WIRING TO BE 3#12AWG & #12GND, 3/4"C.
4. LOCKER RECEPTACLE. MOUNT 75" AFF TO CENTER OF BOX. FURNISH 20A RECEPTACLE WITH TYPE A/C USB PORTS AS MANUFACTURED BY LEVITON MODEL T5833 OR EQUAL. FEED FROM GFI BREAKER.
5. AUTOMATIC GARAGE DOOR OPENER.
6. RUN ALL NEW TELEPHONE AND DATA BACK TO IT ROOM FOR TO TOWN'S IT CONSULTANT TO PUNCHDOWN. CONTRACTOR TO CLEARLY LABEL ALL CABLES.
7. CONTROLLED DOOR. COORDINATE WITH ARCHITECTURAL DOOR SCHEDULE AND DETAIL ON THIS SHEET.
8. INTERCOM WITH DOOR RELEASE IN DAY WATCH.
9. TOWER WINCH. COORDINATE SIZE IN FIELD.
10. COMPRESSOR.
11. RELOCATE RADIO LEADS TO NEW LOCATION FOR PA SYSTEM IN DAYWATCH.
12. EXISTING HYDRONIC HEATER TO REMAIN.
13. INTENT IS TO PICK UP FEEDS TO PANELS US2 AND DS2 HERE, AND REFEED PANELS US AND DS.
14. AFTER HOURS HARDWIRED DOORBELL WIRED TO UPSTAIRS DAY ROOM. FURNISH BROAN/NUTONE MODEL BK240SLPB, OR EQUAL.



2 EXTERIOR DOOR CONDUIT RUN DETAIL

SCALE: NOT TO SCALE

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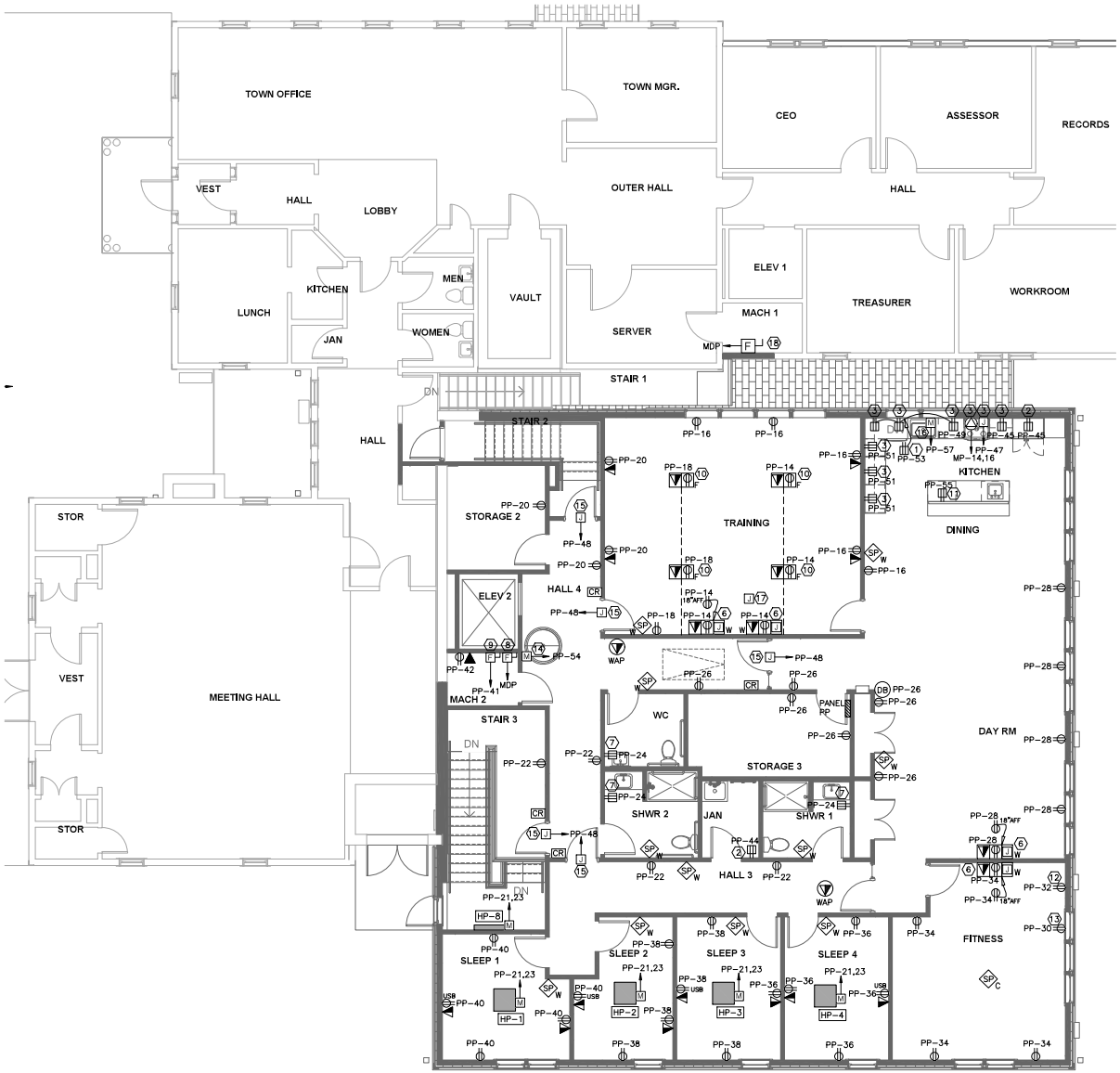
MDFD Station 1 Renovation & Addition

ELECTRICAL POWER & SYSTEMS PLAN - FIRST FLOOR

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
CHECKED	TDM

E101



1 ELECTRICAL POWER & SYSTEMS PLAN – SECOND FLOOR

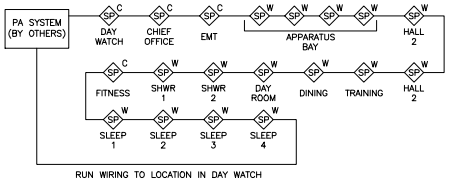
SCALE: 3/16" = 1

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 7'6"AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.

KEYED NOTES:

1. DISHWASHER. MOUNT GFI RECEPTACLE UNDER COUNTER 18" AFF.
2. REFRIGERATOR.
3. COUNTER TOP RECEPTACLE MOUNT 6" ABOVE COUNTER TOP. COORDINATE WITH BACKSPLASH.
4. RANGE. WIRING 3#8AWG & #10GND.
5. RANGE EXHAUST HOOD.
6. 3-GANG MEDIA RECEPTACLE FOR FLATSCREEN TV. MOUNT 72" AFF. AS MANUFACTURED BY LEGRAND MODEL TV3WTVSSW.
7. MOUNT 42" AFF.
8. ELEVATOR MACHINE DISCONNECT.
9. ELEVATOR CAB LIGHT DISCONNECT.
10. FLOOR MOUNTED RECEPTACLE AND JACK AS MANUFACTURED BY WIREMOLD, CATALOG #880W2827B. FIRE STOP AS REQUIRED FOR INSTALLATION.
11. RECEPTACLE ON ISLAND. FEED FROM FLOOR. COORDINATE WITH CASEWORK.
12. STAIR MASTER RECEPTACLE.
13. BIKE RECEPTACLE.
14. POWER TO SLIDE POLE.
15. CONTROLLED DOOR. COORDINATE WITH ARCHITECTURAL DOOR SCHEDULE AND DETAIL ON THIS SHEET.
16. DISPOSAL, 3/4HP.
17. 4" X 4" HDMI BOX MOUNTED AT 18" AFF. CONNECT TO UPPER BOX W/ 2"C.
18. EXISTING ELEVATOR MACHINE DISCONNECT. REFEED FROM MDP. FURNISH SHUNT TRIP WIRING BACK TO NEW BREAKER.



2 PA SYSTEM RISER DIAGRAM

SCALE: NOT TO SCALE

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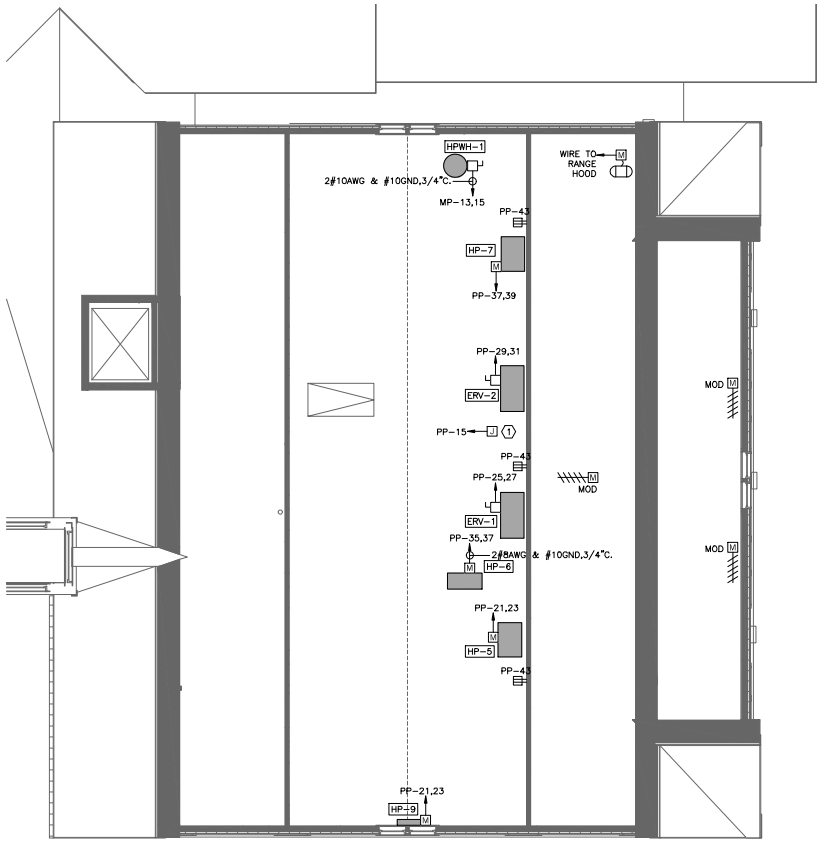
ELECTRICAL POWER & SYSTEMS PLAN - SECOND FLOOR

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
CHECKED	TDM

E102



1 ELECTRICAL POWER & SYSTEMS PLAN – ATTIC

SCALE: 3/16" = 1

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1. MECHANICAL CONTROL POWER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

REV.	DESCRIPTION	DATE

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STATE OF MAINE TIMOTHY D. MATTHEWS No. 9159 LICENSED PROFESSIONAL ENGINEER

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Renovation & Addition

ELECTRICAL POWER & SYSTEMS PLAN - ATTIC

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DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
CHECKED	TDM

E103

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DIRECTORY	KVA LOAD A	KVA LOAD B	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	DIRECTORY
RECEPTACLES FIRE DEPT. OFFICE	1.0		1	20	A	20	2	0.4		LIGHTING FIRE DEPT. OFFICE
RECEPTACLES FIRE DEPT. OFFICE		0.8	3	20	B	20	4		0.3	LIGHTING STORAGE/HALLWAY
RECEPTACLES SMALL OFFICE	1.0		5	20	A	20	6	0.6		LIGHTING GARAGE
BATHROOM RECEPTACLES		0.2	7	20	B	20	8		0.2	LIGHTING BATHROOM
RECEPTACLE GARAGE	1.1		9	20	A	20	10	1.9		CU-1
RECEPTACLE GARAGE		0.4	11	20	B		12		1.9	
EXHAUST BLOWER	0.4		13	15	A	20	14	0.3		EF-1
		0.4	15		B	30	16		2.8	CU-3
AC-1	2.0		17	30	A		18	2.8		
		2.0	19		B	50	20		3.4	RANGE
SPLIT UNITS (5)	0.8		21	20	A		22	3.4		
		0.8	23		B	20	24		0.6	COUNTERTOP/REFRIGERATOR
BOILER CIR. PUMP	0.2		25	20	A	20	26	0.4		COUNTERTOP RECEPTS.
GARAGE DOOR OPENER		1.2	27	20	B	20	28		1.5	MICROWAVE RECEPT.
SPARE	*		29	20	A	20	30	0.3		RANGEHOOD.
SUBTOTAL	**6.5**	**5.8**						**10.1**	**10.7**	SUBTOTAL

VOLTAGE: 240Y/120V PHASE: 1 POLES: 3	TOTAL KVA A-PHASE	**16.6**	PANEL: PANEL DS2
MAIN BREAKER: MLO BUS AMPS: 100	TOTAL KVA B-PHASE	**16.5**	
MOUNTING: FLUSH			LOCATION: FIRST FLOOR
SHORT CIRCUIT RATING: 10KAIC	TOTAL KVA	**33.1**	

NOTES: EXISTING PANEL TO BE REFED DIRECTLY FROM MDP.

DIRECTORY	KVA LOAD A	KVA LOAD B	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	DIRECTORY
RECEPTACLES ASSESSORS OFFICE	1.0		1	20	A	20	2	0.3		LIGHTING ASSESSORS OFFICE
RECEPTACLES CEO OFFICE		1.0	3	20	B	20	4		0.4	LIGHTING COORIDOR/RECORDS
RECEPTACLES RECORDS/HALL	1.1		5	20	A	20	6	0.4		LIGHTING TREASURER/WORK RM./STORAGE
RECEPTACLES WORK ROOM		1.5	7	20	B	20	8		1.9	CU-2
RECEPTACLE TREASURER	1.0		9	20	A		10	1.9		
SPLIT UNITS (4)		0.8	11	20	B	20	12		*	TOWN CLERKS OFFICE (SEE NOTES)
	0.8		13		A	20	14	*		TOWN OFFICE (SEE NOTES)
SPARE		*	15	20	B	80	16		*	SPARE
SPARE	*		17	20	A		18	*		
SPARE		*	19	20	B	20	20		0.1	ELEVATOR PIT LIGHT
SPARE	*		21	20	A	20	22	0.2		ELEVATOR PIT RECEPTACLE
SPARE		*	23	20	B	20	24		0.1	ELEVATOR MACHINE ROOM LIGHTS
SPARE	*		25	20	A	20	26	0.1		ELEVATOR LIGHTS
SPARE		*	27	20	B	20	28		0.2	ELEVATOR MACHINE ROOM RECEPTACLE
SPARE	*		29	20	A	20	30	*		SPARE
SUBTOTAL	**3.9**	**3.3**						**2.9**	**2.7**	SUBTOTAL

VOLTAGE: 240Y/120V PHASE: 1 POLES: 3	TOTAL KVA A-PHASE	**6.8**	PANEL: PANEL US2
MAIN BREAKER: MLO BUS AMPS: 100	TOTAL KVA B-PHASE	**6.0**	
MOUNTING: FLUSH			LOCATION: SECOND FLOOR
SHORT CIRCUIT RATING: 10KAIC	TOTAL KVA	**12.8**	

NOTES: EXISTING PANEL TO BE REFED DIRECTLY FROM MDP.

DIRECTORY	KVA LOAD A	KVA LOAD B	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	DIRECTORY
MAIN	*		1	100	A	15	2	**0.2**		**UH-1**
		*	3		B	15	4		**0.2**	**ELEV. PIT RECEPTS**
EF-1 (DECON)	**0.1**		5	15	A	**20 (1)**	6	**0.2**		**EXTERIOR RECEPTS**
EF-1 (BOILER)		**0.1**	7	15	B	**20 (1)**	8		**1.5**	**GENERATOR BLOCK HEATER**
GEAR LOCKER RECEPT	**1.1**		9	**20G**	A	**20 (1)**	10	**0.5**		**BATTERY CHARGER**
GEAR LOCKER RECEPTACLES		**1.6**	11	**20G**	B	**20 (1)**	12		**0.5**	**SECURE DOORS**
GEAR LOCKER RECEPTACLES	**1.6**		13	**20G**	A	**20 (1)**	14	**1.7**		**ELEVATOR SUMP PUMP**
GARAGE RECEPTS		**1.3**	15	20	B	**20 (1)**	16		**1.5**	**WASHER**
LAUNDRY/AIR/TOOLS RECEPTS	**0.6**		17	20	A	30	18	**2.5**		**DRYER**
EF-2 (LAUNDRY)		**0.1**	19	15	B		20		**2.5**	
SUBTOTAL	**3.4**	**3.1**						**5.1**	**6.2**	SUBTOTAL

VOLTAGE: 240Y/120V PHASE: 1 POLES: 3	TOTAL KVA A-PHASE	**8.5**	PANEL: FCP (NEW LAYOUT)
MAIN BREAKER: MB BUS AMPS: 100	TOTAL KVA B-PHASE	**9.3**	
MOUNTING: SURFACE			LOCATION: ELECTRIC ROOM
SHORT CIRCUIT RATING: 10 KAIC EXISTING	TOTAL KVA	**17.8**	

NOTES: EXISTING TO BE RELOCATED.

(1) NEW BREAKER.

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
CAR CHARGING STATION	2.5			1	30	A	30	2	*			SPARE
		2.5		3		B		4		*		
CAR CHARGING STATION			2.5	5	30	C	30	6			*	SPARE
	2.5			7		A		8	*			
SPARE		*		9	30	B	30	10		*		SPARE
			*	11		C		12			*	
SPARE	*			13	20	A	20	14	*			SPARE
SPARE		*		15	20	B	20	16		*		SPARE
SPARE			*	17	20	C	20	18			*	SPARE
SPACE	*			19		A		20	*			SPACE
SPACE		*		21		B		22		*		SPACE
SPACE			*	23		C		24			*	SPACE
SPACE	*			25		A		26	*			SPACE
SPACE		*		27		B		28		*		SPACE
SPACE			*	29		C		30			*	SPACE
SUBTOTAL	5.0	2.5	2.5						###	###	###	SUBTOTAL

VOLTAGE: 208Y/120V PHASE: 3 POLES: 4	TOTAL KVA A-PHASE	5.0	PANEL: PC
MAIN LUGS ONLY BUS AMPS: 200A	TOTAL KVA B-PHASE	2.5	
MOUNTING: SURFACE	TOTAL KVA C-PHASE	2.5	LOCATION: ELECTRICAL ROOM
SHORT CIRCUIT RATING: 18KAIC	TOTAL KVA	10.0	

NOTES:

DIRECTORY	KVA LOAD A	KVA LOAD B	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	DIRECTORY
RADIO CHARGERS	*		1	20	A	60	2	*		AC UNIT
FIRE CHEIFS PANEL		*	3	100	B		4		*	
	*		5		A	15	6	*		FIRST FLOOR RECEPTACLES
SURGE PROTECTOR		*	7	20	B	20	8		*	DISPATCH RECEPTACLES
	*		9		A	20/20	10	*		UNDER PANEL REC./LOCKER RM RECEPT.
PHONE SYSTEM		*	11	20	B	20/20	12		*	SERVER ROOM DOUBLE 4 RECEPTS/WEST WALL FIRE BAY
POLICE OFFICE	*		13	20	A	15	14	*		NORTH ICE MELTER
POLICE OFFICE		*	15	20	B	20	16		*	HOSE TOWER HEAT TRANSFER
DISPATCHER	*		17	20	A	20	18	*		CHEIFS & PROPERTY RECEPT.
FIRE ALARM		*	19	15	B	20	20		*	POLICE CHEIFS OFFICE LTS
BACK UP DISPATCH/SERVER TRANSMITTER	*		21	20	A	30	22	*		HOT WATER HEATER
SHORE POWER FOR AMBULANCE		*	23	20	B		24		*	
LOCKER BATHROOM	*		25	20	A	50	26	*		DISPATCH RANGE
LOCKER ROOM INTERROGATION LIGHTS		*	27	20	B		28		*	
DISPATCH HALL LIGHTS	*		29	20	A	20	30	*		GENERATOR/STORE RM. LIGHTS
FURNACE RM. LIGHTS		*	31	20	B	20	32		*	FIRST FLOOR GENERAL
FURNACE	*		33	20	A	20	34	*		DISPATCH STAIR LIGHTS
DISPATCH/BATH		*	35	20	B	20	36		*	POLICE CHEIFS RECEPTACLE
POLICE LIGHTS/NEW AC UNIT MEETING RM	*		37	20/30	A	100	38	*		UPSTAIRS PANEL (SEE NOTES)
PUBLIC BATH & STORAGE		*	39	30/20	B		40		*	
SUBTOTAL	###	###						###	###	SUBTOTAL

VOLTAGE: 240Y/120V PHASE: 1 POLES: 3	TOTAL KVA A-PHASE	###	PANEL: DOWNSTAIRS
MAIN BREAKER: MB EXISTING BUS AMPS: 200A	TOTAL KVA B-PHASE	###	
MOUNTING: SURFACE			LOCATION: ELECTRIC ROOM
SHORT CIRCUIT RATING: EXISTING	TOTAL KVA	###	

NOTES: EXISTING PANEL TO BE REFED DIRECTLY FROM MDP.

DIRECTORY	KVA LOAD A	KVA LOAD B	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	DIRECTORY
DISPATCH	*		1	20	A	20/20	2	*		MEETING ROOM/NEW PHONE SYSTEM
(UNKNOWN)		*	3	20	B	20	4		*	TOWN OFFICE
3 OVERHEAD DOORS	*		5	20	A	20	6	*		MANAGER
AC EXTERIOR CONTROLS		*	7	20	B	20	8		*	TOWN CLERK (SEE NOTE BELOW)
LIGHTS THIS ROOM	*		9	20	A	20	10	*		TOWN OFFICE (SEE NOTE BELOW)
MANAGER		*	11	20	B	20	12		*	CLERK/KITCHEN
ENTRY LIGHTS	*		13	20	A	20	14	*		KITCHEN AND JANITOR
MEETING ROOM		*	15	20	B	20	16		*	TOWN OFFICE
MEETING RM. TRACK LIGHTS	*		17	20	A	20	18	*		BATH VAULT ASSESSOR
BATH VAULT LIGHTS		*	19	20	B	20	20		*	MEETING ROOM WEST LIGHTS
FAN	*		21	20	A	100	22	*		FEED TO SUBPANEL US-2
		*	23		B		24		*	
RANGE	*		25	50	A	20	26	*		UPSTAIRS REFRIGERATOR
		*	27		B	20/20	28		*	MEETING & ENTRY LTS/MEETING EAST LTS
3 GANG RECEPTACLES	*		29	20	A	20	30	*		CIRCULATION PUMP
3 GANG RECEPTACLES		*	31	20	B	20	32		*	LOCKER RM INTERROGATION OUTLETS
TOWN OFFICES COMPUTER CIRCUITS IN BOTTOM OF CABINETS	*		33	20/20	A	20/20	34	*		BOILER ROOM 1
CORRIDOR HALLWAY UP STAIRS		*	35	20	B	20	36		*	TOWN OFFICE
ASSESSORS	*		37	20	A	20/20	38	*		FIREHOUSE LIGHT & BOILER RM 2 /BOILER RM 3 & FIRE HOUSE LIGHT
MODINE HEATER		*	39	20	B	20/20	40		*	
SUBTOTAL	###	###						###	###	SUBTOTAL

VOLTAGE: 240Y/120V PHASE: 1 POLES: 3	TOTAL KVA A-PHASE	###	PANEL: UPSTAIRS
MAIN BREAKER: MB EXISTING BUSS AMPS 200A	TOTAL KVA B-PHASE	###	
MOUNTING: SURFACE			LOCATION: ELECTRIC ROOM
SHORT CIRCUIT RATING: EXISTING	TOTAL KVA	###	

NOTES: EXISTING PANEL TO BE REFED DIRECTLY FROM MDP.

1 ELECTRIC PANEL SCHEDULES
SCALE: NOT TO SCALE

REV.	DESCRIPTION	DATE

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CURRENT ISSUE STATUS: **6/6/2022**

N

STATE OF MAINE TIMOTHY D. MATHEWS No. 9119 LICENSED PROFESSIONAL ENGINEER

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MDFD Station 1 Renovation & Addition

ELECTRICAL EXISTING PANEL SCHEDULES

DATE	06/6/22
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E104

SWIFTCURRENT
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DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
HP-OUT	4.6			1	45	A	*	2	*			SPACE
		4.6		3		B		4		*		
			4.6	5		C		6			*	
COMPRESSOR	3.2			7	50	A	15	8	0.7			WASHER/EXTRACTOR
		3.2		9		B		10		0.7		
			3.2	11		C		12			0.7	
HPWH-1	2.3			13	30	A	50	14	4.8			RANGE
		2.3		15		B		16		4.8		
ERF-1, 2			1.4	17	20	C	20	18			1.4	ERF-5, 6
	1.4			19		A		20	1.4			
ERF-3, 4		1.4		21	20	B		22		*		SPACE
			1.4	23		C		24			*	
PANEL US	*			25	100	A	100	26	*			PANEL DS-2
		*		27		B		28		*		
PANEL US2			*	29	100	C	100	30			8.5	PANEL FP
	*			31		A		32	9.3			
PANEL DS		*		33	100	B		34		*		SPACE
			*	35		C		36			*	SPACE
PANEL PP	12.4			37	200	A		38	*			SPACE
		15.2		39		B		40		*		SPACE
			11.1	41		C		42			*	SPACE
SUBTOTAL	23.9	26.7	21.7						16.2	5.7	10.6	SUBTOTAL

VOLTAGE: 208Y/120V PHASE: 3 POLES: 4	TOTAL KVA A-PHASE	40.1	PANEL: MP
MAIN BREAKER: 400A BUS AMPS: 400A	TOTAL KVA B-PHASE	32.4	
MOUNTING: SURFACE	TOTAL KVA C-PHASE	32.3	LOCATION: ELECTRICAL ROOM
SHORT CIRCUIT RATING: 18KAIC	TOTAL KVA	104.8	
NOTES:			

1 ELECTRIC PANEL SCHEDULES

SCALE: NOT TO SCALE

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
BAY DOOR OPENER	1.2			1	20	A	20	2	0.8			NEW BAY LIGHTS
BAY DOOR OPENER		1.2		3	20	B	20	4		0.6		EXISTING BAY LIGHTS
BAY DOOR OPENER			1.2	5	20	C	20	6			0.5	BOILER/LAUNDRY/DECON LTS.
BAY DOOR OPENER	1.2			7	20	A	20	8	0.6			SLEEP/SHOWER/FITNESS LTS.
TRUCK RECEPTS		0.4		9	20	B	20	10		0.4		DAYROOM/TRAINING LIGHTS
TRUCK RECEPTS			0.4	11	20	C	20	12			0.4	STAIRS & CORRIDOR LTS.
APPARATUS MONITOR	0.4			13	20	A	20	14	0.9			TRAINING RECEPTS.
MECHANICAL CONTROLS			0.2	15	20	B	20	16		0.9		TRAINING RECEPTS.
SPARE	*			17	20	C	20	18			0.6	TRAINING RECEPTS.
SPARE		*		19	20	A	20	20	0.8			TRAINING RECEPTS.
HP-1, 2, 3, 4, 5, 6, 9		0.3		21	15	B	20	22		0.8		HALL RECEPTS.
			0.3	23		C	20	24			0.6	TOILET RECEPTS.
ERV-1	0.5			25	15	A	20	26	1.1			DAYROOM/CORR. RECEPTS.
		0.5		27		B	20	28		1.1		DAYROOM RECEPTS.
ERV-2			0.5	29	15	C	20	30			0.2	BIKE RECEPT.
	0.5			31		A	20	32	1.2			TREADMILL RECEPT.
HP-6 (WITH AUX. HEAT)		3.5		33	40	B	20	34		0.8		FITNESS RECEPTS.
			3.5	35		C	20	36			0.9	SLEEP 4 RECEPTS
HP-7	0.5			37	15	A	20	38	1.1			SLEEP 2 & 3 RECEPTS
		0.5		39		B	20	40		0.9		SLEEP 1 RECEPTS
ELEVATOR CAB LIGHTS			0.1	41	20	C	20	42			0.2	ELEV. MACH. RM. RECEPT.
ATTIC RECEPTS	0.6			43	20	A	20	44	0.2			JANITOR GFI
KIT. COUNTER & REFRIG.		0.6		45	20	B	20	46		0.4		ATTIC LIGHTS
KITCHEN HOOD			0.3	47	20	C	20	48			*	SPARE
KITCHEN COUNTER RECEPTS.	0.6			49	20	A	20	50	*			SPARE
KITCHEN COUNTER RECEPTS.		0.6		51	20	B	20	52		*		SPARE
DISHWASHER			1.0	53	20	C	20	54			*	SPARE
KITCHEN ISLAND	0.2			55	20	A	20	56	*			SPARE
DISPOSAL		1.7		57	20	B	20	58		*		SPARE
FIRE POLE POWER			0.2	59	20	C	20	60			*	SPARE
SUBTOTAL	5.7	9.3	7.7						6.7	5.9	3.4	SUBTOTAL

VOLTAGE: 208Y/120V PHASE: 3 POLES: 4	TOTAL KVA A-PHASE	12.4	PANEL: PP
MAIN LUGS ONLY BUS AMPS: 200A	TOTAL KVA B-PHASE	15.2	
MOUNTING: SURFACE	TOTAL KVA C-PHASE	11.1	LOCATION: SECOND FLOOR STORAGE RM.
SHORT CIRCUIT RATING: 10KAIC	TOTAL KVA	38.7	
NOTES:			

NOTES:

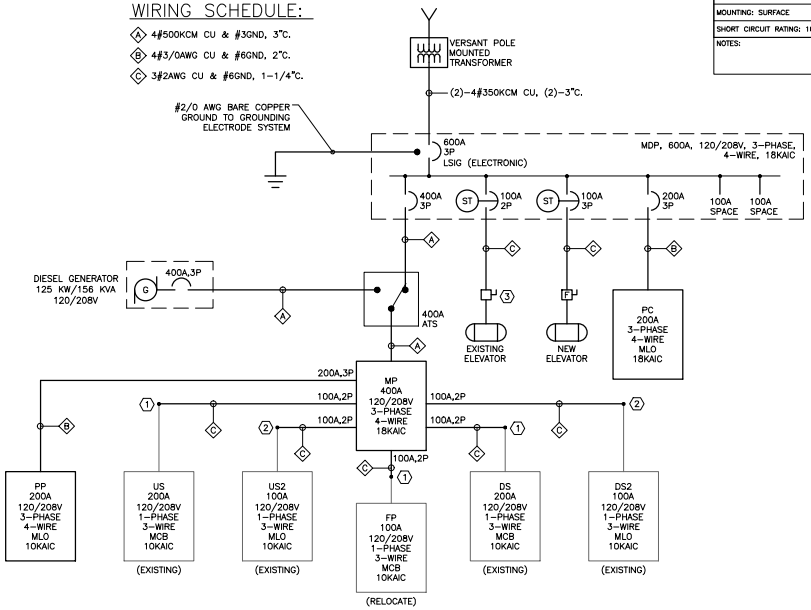
1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1. INTENT IS TO RUN NEW FEEDER FROM PANEL MP TO REFEED EACH PANEL SEPARATELY IN THE MECHANICAL ROOM.
2. DISCONNECT PANEL FEEDERS DS2 AND US2 FROM PANELS DS AND US RESPECTIVELY. SPLICE EXISTING FEEDERS TO NEW FEEDERS FROM PANEL MP IN NEW ENCLOSURE IN MECHANICAL ROOM.
3. REFEED EXISTING ELEVATOR DISCONNECT IN SECOND FLOOR EMR FROM NEW SERVICE PANEL MDP.

WIRING SCHEDULE:

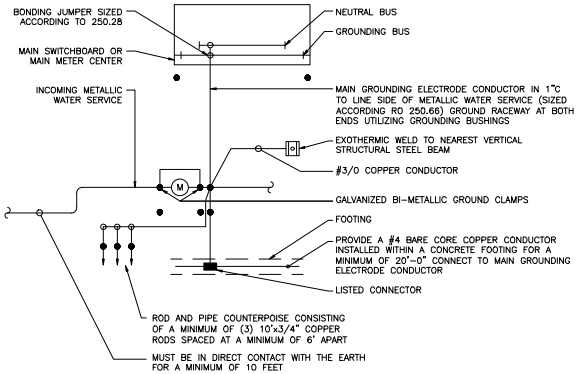
- A: 4#500KCM CU & #3GND, 3"C.
- B: 4#3/0AWG CU & #6GND, 2"C.
- C: 3#2AWG CU & #6GND, 1-1/4"C.



2 ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

NOTE: PROVIDE A GROUNDING ELECTRODE SYSTEM AS DETAILED BELOW (IF AVAILABLE ON PREMISES) UNTIL A MAXIMUM RESISTANCE LEVEL OF 25 OHMS TO GROUND IS ATTAINED PERFORM A GROUND RESISTANCE TEST AND PROVIDE A COPY OF THE TESTING REPORT TO THE ENGINEER.



3 ELECTRICAL GROUNDING DETAIL

SCALE: NOT TO SCALE

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Engineering Services
10 Forest Falls Dr. Unit 4B
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Tel: (207) 847-9280

REV.	DESCRIPTION	DATE
	ISSUED FOR CONSTRUCTION	

CURRENT ISSUE STATUS: 6/6/2022

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DESIGN GROUP COLLABORATIVE
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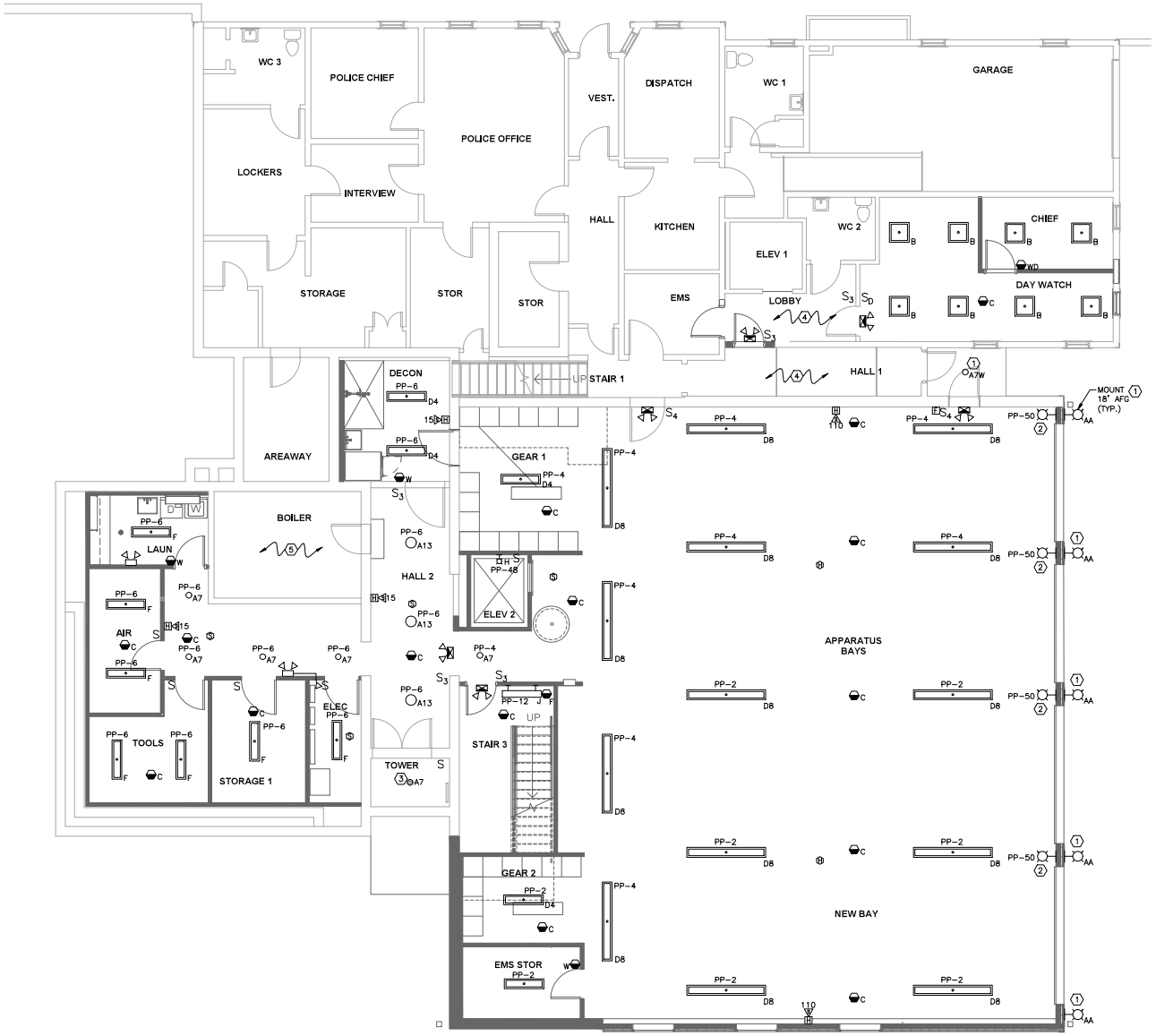
MDFD Station 1
Renovation & Addition

ELECTRICAL PANEL SCHEDULES & ONE-LINE DIAGRAM

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
CHECKED	TDM

E105



1 ELECTRICAL LIGHTING & FIRE ALARM PLAN – FIRST FLOOR
SCALE: 3/16" = 1

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1. SEE EXTERIOR LIGHTING CONTROL ON ES-101. REWIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT.
2. FURNISH LED DOOR SAFETY SYSTEM. KIT CONSISTS OF 10' LONG LED LIGHT MOUNTED VERTICALLY ON BOTTOM SIDES OF GARAGE DOOR FRAME, ALIGNED WITH TOP OF OPENING INSIDE ONLY. LIGHT SHALL BE RED WHEN DOOR IN CLOSED, FLASHING RED WHEN IN MOTION AND GREEN WHEN DOOR IS OPEN. PROVIDE ALL INTER CONNECTION WIRING WITH DOOR OPERATOR INCLUDING AUXILIARY EQUIPMENT SUCH AS LIMIT SWITCHES. SYSTEM SHALL BE FURNISHED BY GATEARMS, OR EQUAL.
3. MOUNT LIGHT AT TOP OF TOWER TO LIGHT CUPOLA. WIRE TO EXTERIOR LIGHTING CIRCUIT FOR CONTROL WITH OVERRIDE AT FIRST FLOOR ENTRY.
4. EXISTING LIGHTING TO REMAIN, RELOCATE AS REQUIRED DURING CONSTRUCTION. REPLACE EXISTING SWITCH AS REQUIRED.
5. EXISTING LIGHTING TO REMAIN.

REV.	DESCRIPTION	DATE
	ISSUED FOR CONSTRUCTION	

CURRENT ISSUE STATUS: 6/6/2022

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STATE OF MAINE — TIMOTHY D. MATHEWS No. 9159 — LICENSED PROFESSIONAL ENGINEER

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MDFD Station 1 Renovation & Addition

ELECTRICAL LIGHTING & FIRE ALARM PLAN - FIRST FLOOR

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
REVIEWED	TDM

E201

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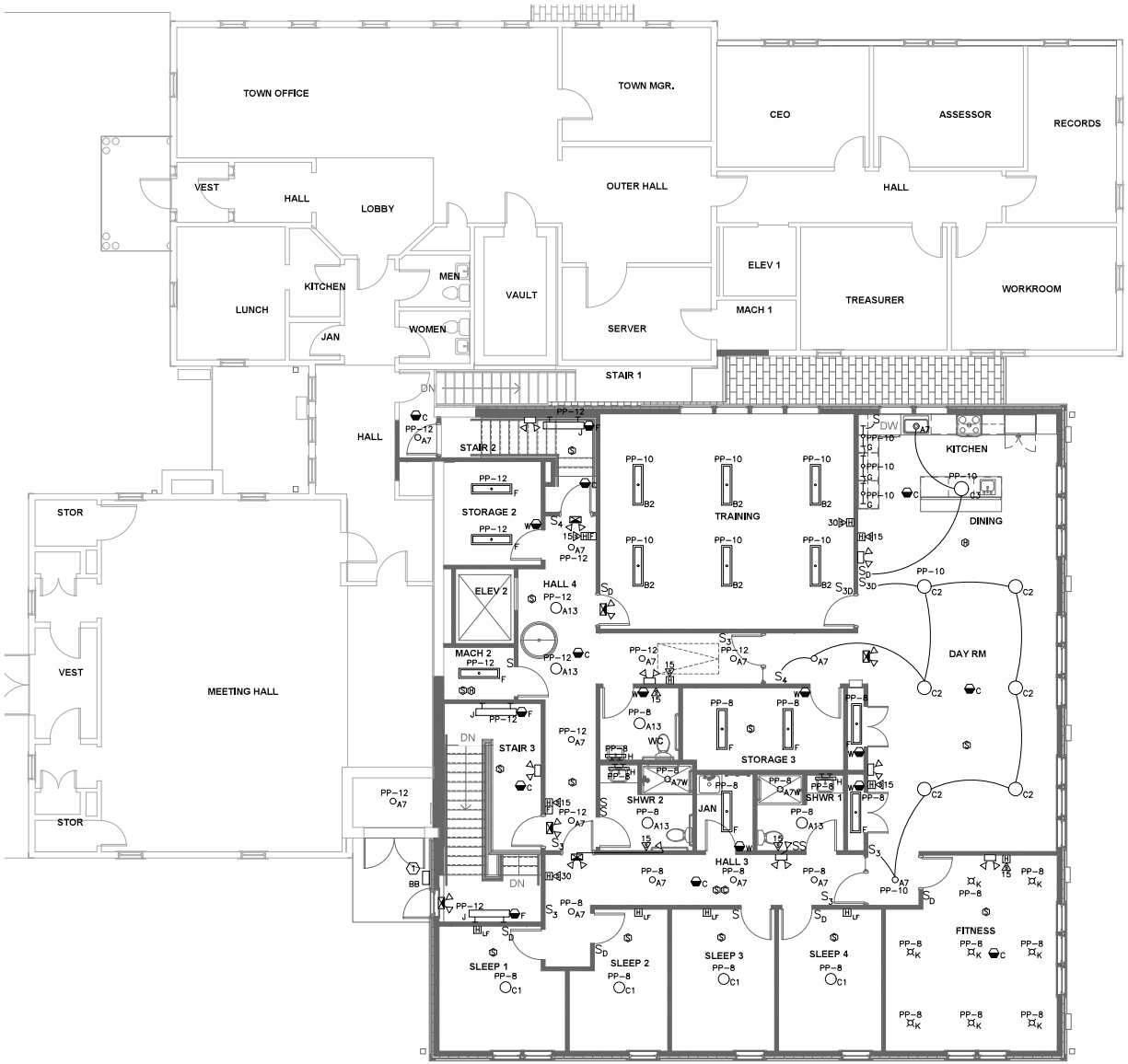

1 ELECTRICAL LIGHTING & FIRE ALARM PLAN – SECOND FLOOR

SCALE: 3/16" = 1

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1. WIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT FEEDING THE BAY DOORS. SEE EXTERIOR LIGHTING CONTROL ON ES-101.

REV.	DESCRIPTION	DATE

ISSUED FOR CONSTRUCTION

CURRENT ISSUE STATUS: 6/6/2022

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STATE OF MAINE TIMOTHY D. MATTHEWS No. 9159 LICENSED PROFESSIONAL ENGINEER

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ELECTRICAL LIGHTING & FIRE ALARM PLAN - SECOND FLOOR

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
CHECKED	TDM

E202

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LIGHTING SCHEDULE

TYPE	DESCRIPTION	MANFACTURER	LAMPS	MOUNTING	NOTES
A7W	7" SURFACE MOUNT LED LIGHT. WHITE FINISH WET LOCATION. 120V	LITHONIA LIGHTING	10W LED 3000K 642 LUMENS	CEILING SURFACE	MODEL #: FMML7-830-WL
A7	7" SURFACE MOUNT LED LIGHT. WHITE FINISH. 120V	LITHONIA LIGHTING	10W LED 3000K 642 LUMENS	CEILING SURFACE	MODEL #: FMML7-830
A13	13" SURFACE MOUNT LED LIGHT. WHITE FINISH. 120V	LITHONIA LIGHTING	28W LED 3000K 1898 LUMENS	CEILING SURFACE	MODEL #: FMML13-830
AA	EXTERIOR FULL CUTOFF WALL MOUNT FIXTURE WITH DECORATIVE ARM. 120V	BEACON LIGHTING	55W LED 3000K 5811 LUMENS	WALL ARM 18'0"AFG	MODEL #: URB-CAP21-24L55-3K7-UNV-4-SM-NRNW-MOB-BLS BUG RATING: 102 (COLOR TBD BY ARCHITECT)
B1	2' X 2' LED FLAT PANEL WITH SURFACE MOUNT KIT. 120V	LITHONIA LIGHTING	30W LED 3500K 3428 LUMENS	CEILING SURFACE	MODEL #: EPANL22-3400LM-80CRI-35K-MIN10ZT+MVOLT SURFACE MOUNT KIT: 2X2 SMKSH
B2	1' X 4' LED FLAT PANEL WITH SURFACE MT. 120V	LITHONIA LIGHTING	23W LED 3500K 2845 LUMENS	CEILING SURFACE	MODEL #: EPANL14-3000LM-80CRI-35K-MIN10ZT+MVOLT SURFACE MOUNT KIT: 1X4 SMKSH
BB	EXTERIOR WALL SCONCE. COLOR TBD BY ARCHITECT. 120V	LITHONIA LIGHTING	20W LED 3000K 2053 LUMENS	WALL SURFACE 8' AFG	MODEL #: MRW LED-P1-30K-SR4-MVOLT-PE-XX
C1	15" ROUND LED SURFACE MOUNT. WHITE FINISH. MEDIUM OUTPUT. 120V	BROWNLEE LIGHTING	16W LED 3000K 1327 LUMENS	CEILING SURFACE	MODEL #: 2081-15-WH-C17-FLZ-30K
C2	15" ROUND LED SURFACE MOUNT. WHITE FINISH. HIGH OUTPUT. DIMMABLE. 120V	BROWNLEE LIGHTING	23W LED 3000K 2062 LUMENS	CEILING SURFACE	MODEL #: 2081-15-WH-C24-FL2-30K-DTR
C3	17" LED SURFACE MOUNT. WHITE FINISH. DIMMABLE. 120V	BROWNLEE LIGHTING	32W LED 3000K 3132 LUMENS	CEILING SURFACE	MODEL #: 2081-17-WH-C37-FLZ-30K-DTR
D4	4' VAPOR TIGHT LED STRIP. 120V	LITHONIA LIGHTING	24W LED 4000K 3106 LUMENS	CEILING SURFACE	MODEL #: CSVT-L48-3000LM-MVOLT-40K-80CRI
D8	8' VAPOR TIGHT LED STRIP. HIGH OUTPUT. 120V	LITHONIA LIGHTING	103W LED 4000K 12425 LUMENS	CEILING SURFACE	MODEL #: CSVT-L96-12000LM-MVOLT-30K-80CRI
E	3' LED VANITY FIXTURE BRUSHED NICKEL FINISH. 120V	LITHONIA LIGHTING	25W LED 3000K 2009 LUMENS	WALL SURFACE	MODEL #: FMVTRL-36IN-MVOLT-30K-BN
F	4' LED STRIP FIXTURE W/ ACRYLIC DIFFUSER. 120V	LITHONIA LIGHTING	36W LED 4000K 4298 LUMENS	CEILING SURFACE	MODEL #: CSS-L48-4000LM-MVOLT-40K-80CRI
G	2' UNDERCABINET LIGHT WITH CONNECTOR CORD. 120V	LITHONIA LIGHTING	11W LED 3000K 742 LUMENS	UNDER CABINET	MODEL #: UCEL-24IN-30K-WH WITH CONNECTOR CORD.
H	VAPOR TIGHT ELEVATOR PIT LIGHT 120V	HUBBELL INDUSTRIAL LIGHTING	27W LED 5000K 1402 LUMENS	WALL SURFACE	MODEL #: VTC-5KG-U-W-2-G-GR
J	STAIRWELL LED WALL BRACKET WITH INTEGRAL OCCUPANCY SENSOR. 120V	LITHONIA LIGHTING	29W LED 3500K 3095 LUMENS	WALL SURFACE	MODEL #: WL4-30L-EZ1-LP835-MSD7-DIM10 (UNOCCUPIED = 10%; OCCUPIED = 100%)
K	8" LED RECESSED DOWNLIGHT WITH REMOTE DRIVER BOX. 120V	LITHONIA LIGHTING	20W LED 3500K 1650 LUMENS	CEILING RECESSED	MODEL #: WF8-LED-35K-MVOLT-90CRI-MW
C	CEILING MOUNTED DUAL TECHNOLOGY UTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL	N/A	CEILING SURFACE	MODEL #: OMNIDT2000 FURNISH RELAYS/POWER PACKS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION
W	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL	N/A	WALL	MODEL #: LHIRS11
	EMERGENCY BATTERY UNIT 120V	DUAL-LITE	2W LED	WALL SURFACE	MODEL #: EV4D-02L
WP	WEATHER PROOF REMOTE HEAD. WHITE FINISH. 120V	DUAL-LITE	(2) 1W LED	WALL SURFACE	MODEL #: EVO-D-W
	LED EXIT SIGN EMERGENCY BATTERY UNIT COMBINATION WITH REMOTE CAPACITY 120V	DUAL-LITE	(2) 1W LED	CEILING SURFACE	MODEL #: EVCU-R-W-D4
	LED EXIT SIGN EMERGENCY BATTERY UNIT 120V	DUAL-LITE	2W LED	CEILING SURFACE	MODEL #: EVEU-R-W

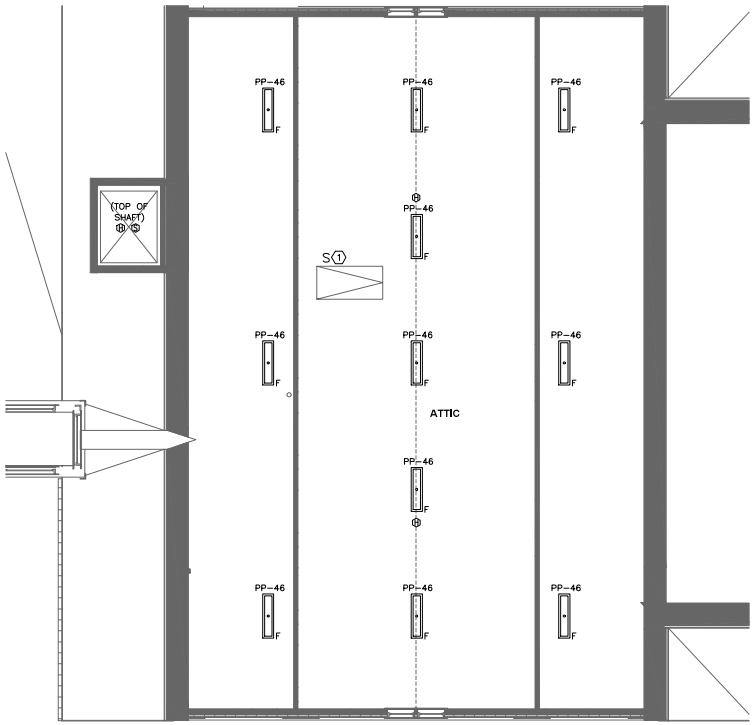
1 LIGHTING SCHEDULE
SCALE: NOT TO SCALE

NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

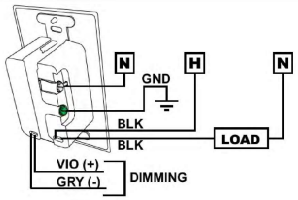
KEYED NOTES:

1. MOUNT SWITCH ON CLOSEST TRUSS TO ATTIC HATCH DOOR.
2. MOUNT LIGHT IN CUPOLA CONNECT TO EXTERIOR LIGHTING CIRCUIT AND CONTROL BY PHOTOCELL/TIME CLOCK.



2 ELECTRICAL LIGHTING & FIRE ALARM PLAN – ROOF
SCALE: 3/16" = 1

WIRE COLOR KEY
120/277 VAC WIRING
BLACK* - Line 1 Input
BLACK* - Load 1 Output
*BLACK wires can be reversed
VIOLET - Low Voltage Dim Output (0-10 VDC)
GRAY - Low Voltage Common
347 VAC WIRING (-347 Option)
Red wires replace Black wires.



NOTES:

1. PER NEC REQUIREMENTS, THE 0-10V (VIOLET AND GRAY) WIRES MUST BE INSTALLED AS CLASS ONE.
2. THE 0-10V (VIOLET AND GRAY) WIRES SHALL NOT EXCEED 240' IN LENGTH AND SHALL BE SIZED AS #18AWG.

3 SINGLE-POLE DIMMER WIRING APPLICATION
SCALE: NOT TO SCALE

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MDFD Station 1 Renovation & Addition

ELECTRICAL LIGHTING & FIRE ALARM PLAN - ATTIC

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN BY	JMD
CHECKED BY	TDM

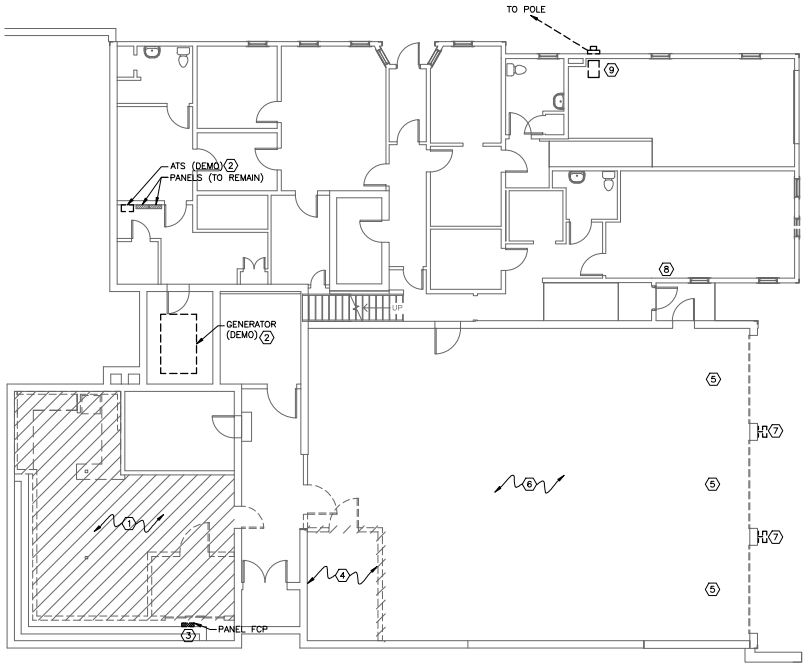
E203

NOTES:

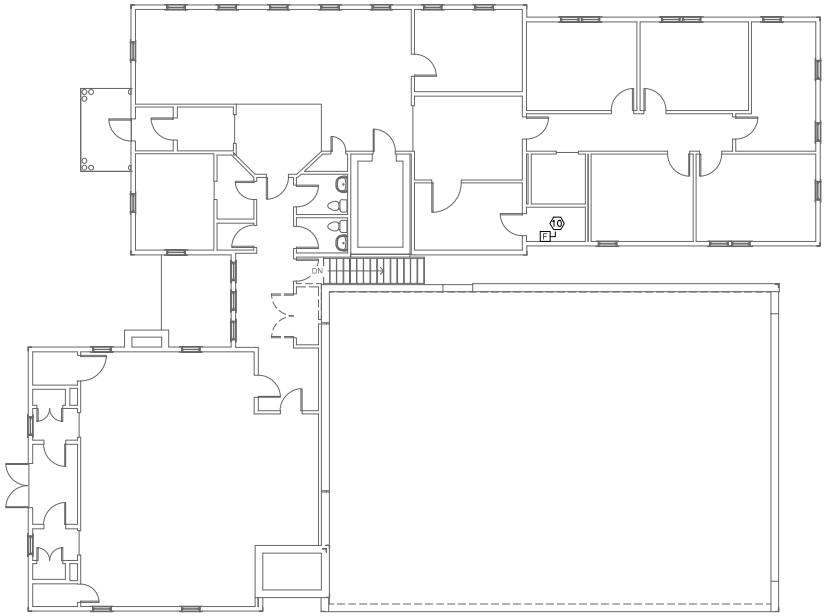
1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

DEMOLITION KEYED NOTES:

1. DEMO ALL LIGHTING, RECEPTACLES AND WIRING IN THIS SPACE.
2. EXISTING GENERATOR AND ATS TO BE REMOVED CONSTRUCTION AFTER NEW GENERATOR IS ON-LINE. RETURN EQUIPMENT TO OWNER FOR, REUSE ANOTHER MUNICIPAL FACILITY.
3. PANEL FCP. REMOVE FROM EXISTING LOCATION AND REINSTALL IN NEW ELECTRIC ROOM.
4. REMOVE EXISTING DEVICES AND LIGHTING IN THIS AREA.
5. GARAGE DOORS BEING REPLACED. REMOVE EXISTING OPERATORS AND WIRING BACK TO SOURCE.
6. REMOVE ALL LIGHTING AND EQUIPMENT IN THIS AREA. CEILING BEING RAISED. THIS INCLUDES EXISTING VENTILATION EQUIPMENT ADN OTHER EQUIPMENT SHOWN TO BE REQUIRED/RELOCATED ON PLANS.
7. DEMO EXISTING EXTERIOR LIGHTING AND WIRING.
8. EXISTING RADIO WIRING TO BE RELOCATED TO SOUTH-WEST CORNER OF ROOM.
9. EXISTING SERVICE EQUIPMENT TO BE DEMOLISHED AFTER CUT OVER. REMOVE METER, BREAKER, WIRING BACK TO ELECTRICAL AREA IN POLICE STATION. REMOVE EXISTING SINGLE PHASE SERVICE CONDUCTORS IF POSSIBLE. RETAIN EXISTING CONDUITS AND CAP IN PLACE. REUSE CONDUIT PENETRATIONS AND RUNS UNDER SIDEWALK FOR CAR CHARGING STATION WIRING.
10. EXISTING ELEVATOR MACHINE DISCONNECT. DISCONNECT FROM EXISTING SERVICE DISCONNECT. RECONNECT TO NEW MDP.



1 ELECTRICAL DEMOLITION PLAN – FIRST FLOOR
SCALE: 1/8" = 1



2 ELECTRICAL DEMOLITION PLAN – SECOND FLOOR
SCALE: 1/8" = 1

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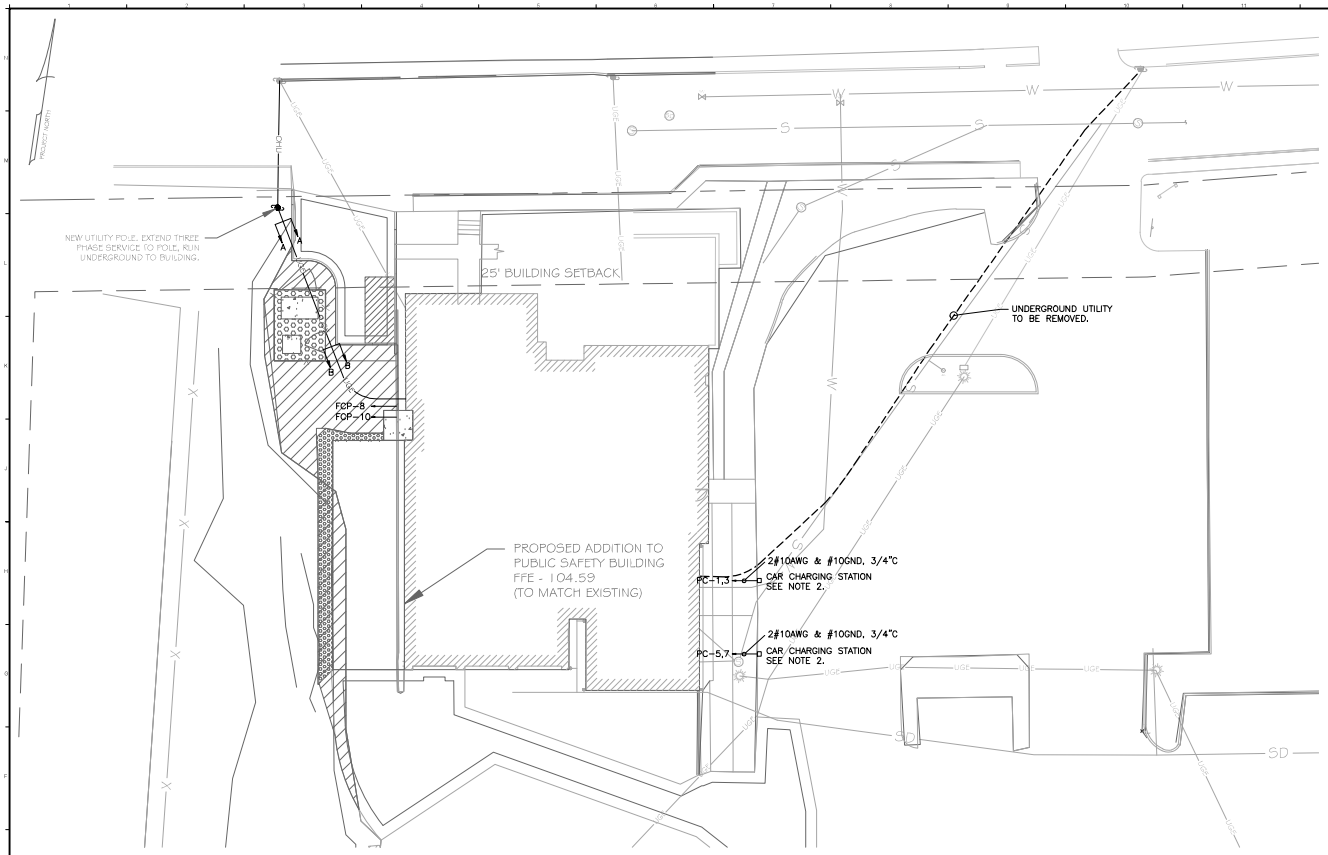
MDFD Station 1 Renovation & Addition

ELECTRICAL DEMOLITION PLAN

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
CHECKED	TDM

ED101

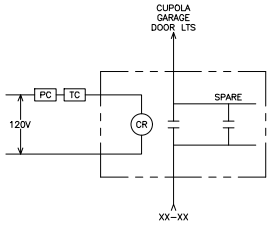


1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'

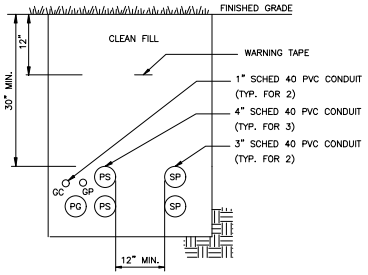
NOTES:

1. SEE E000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. 2-UNIT SV CHARGING STATION CONSISTING OF:
   (2) – HCS 30, LEVEL 2 CHARGERS
   (1) – HCS PEDESTAL
   (1) – DUAL MOUNT KIT SHARE-2
   AS MANUFACTURED BY CLIPPER CREEK



4 EXTERIOR LIGHTING CONTROL DIAGRAM

SCALE: NOT TO SCALE

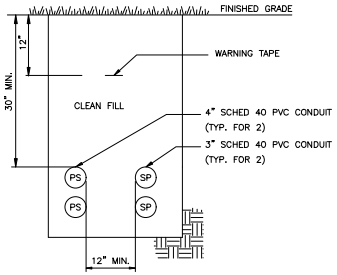


3 DUCT BANK DETAIL B-B

SCALE: NOT TO SCALE

DUCT BANK LEGEND:

GC – GENERATOR CONTROLS
GP – GEGERATOR AUX. POWER
PG – POWER (GENERATOR)
PS – POWER (SECONDARY)
SP – SPARE



2 DUCT BANK DETAIL A-A

SCALE: NOT TO SCALE

SWIFTCURRENT
Engineering Services
10 Forest Falls Dr. Unit 4B
Yarmouth, ME 04096
Tel: (207) 847-9280

REV.	DESCRIPTION	DATE

ISSUED FOR CONSTRUCTION

CURRENT ISSUE STATUS: **6/6/2022**

N

STATE OF MAINE TIMOTHY D. MATTHEWS No. 9159 LICENSED PROFESSIONAL ENGINEER

DESIGN GROUP COLLABORATIVE
ARCHITECTURE
DESIGN + PLANNING
40 CHURCH ST STUDIO A
ELLSWORTH, MAINE 04605
(207) 664-0560

MDFD Station 1 Renovation & Addition

ELECTRICAL SITE PLAN

DATE	06/6/22
SCALE	AS NOTED
PROJECT NO.	132116
DRAWN	JMD
REVIEWED	TDM

ES101