GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED STATE OF ALASKA CODES AND AMENDMENTS TO THE INTERNATIONAL BUILDING CODE, NFPA, INTERNATIONAL MECHANICAL CODE, UNIFORM PLUMBING CODE, NATIONAL ELECTRICAL CODE, ALL LOCAL REGULATIONS AND TRADE STANDARDS.
2. BUILDING DESIGN IS TO BE REVIEWED AND APPROVED BY THE LOCAL FIRE CHEIF OR EQUIVALENT AUTHORITY.
3. THE ORGANIZATION OF THESE DRAWINGS IS NOT INTENDED TO CONTROL THE DIVISION OF WORK AMONG SUB-CONTRACTORS. THE DIVISION OF THE WORK SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC, ENVIRONMENT AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. CONTRACTOR ASSUMES ALL LIABILITY FOR DAMAGES INCURRED DURING CONSTRUCTION.
5. CONTRACTOR SHALL COORDINATE WORK SCHEDULE, LOCATION OF STORAGE AREAS, COLLECTION OF TRASH, AND DELIVERY OF MATERIALS WITH THE OWNER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND DEBRIS RESULTING FROM CONSTRUCTION AND DEMOLITION ACTIVITIES. DISPOSAL SHALL BE IN AN APPROVED SITE AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EXISTING FACILITIES FOR HEAT, LIGHT AND POWER WITHIN THE PREMISES AND IN THE CONSTRUCTION AREA DURING THE ENTIRE CONSTRUCTION PERIOD. PROVIDE NECESSARY MATERIALS AND LABOR FOR TEMPORARY POWER CONNECTIONS FOR MACHINES, PORTABLE EQUIPMENT, TOOLS, ETC. AS USED BY TRADES, REGARDLESS OF SIZE.
8. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITIONS AND KIND OF CONSTRUCTION. THE SPECIFICATIONS WILL INDICATE QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULAR DETAILED, MARKED OR SPECIFIED, SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF A CONDITION NOT COVERED IN THE DRAWINGS IS ENCOUNTERED, OR IF A DIMENSIONAL ERROR IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER BEFORE COMMENCING WITH THAT PORTION OF THE WORK.
10. SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISIONS OR INSTRUCTION IN WRITING FROM THE OWNER, THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATIONS IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT SHOULD IT BE ELECTED TO PROCEED, IT IS DONE SO AT THE CONTRACTOR'S OWN RISK.
11. WHERE NO SPECIFIC DETAILS IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT OR TO APPROPRIATE STANDARDS OF WORKMANSHIP OF CONTEMPORARY CONSTRUCTION PRACTICES. SHOULD THERE BE ANY QUESTIONS, CONTACT THE ARCHITECT OR ENGINEER PRIOR TO PROCEEDING.
12. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER WHERE A CONFLICT OR A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE DRAWINGS PRIOR TO COMMENCING ANY WORK.
13. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF ALASKA LATEST EDITION, AND ALL OSHA REQUIREMENTS. THE OWNER AND THE ARCHITECT OR ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING OR OTHER TEMPORARY CONSTRUCTION DESIGNS REQUIRED.
14. ANY SUBSTITUTIONS FOR MATERIALS, STRUCTURAL MEMBERS, HARDWARE, EQUIPMENT OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT OR ENGINEER. SUCH REVIEW MAY BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR UNDER APPROVED AGREEMENT WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWEDALL COMPONENTS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURERS WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.
15. ALL COMPONENTS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURERS WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.
16. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
17. THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY THE LOCAL BUILDING OFFICIALS AND SIGNED BY THE ARCHITECT AND/OR ENGINEER.
18. ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTES THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND/OR ENGINEER AND ARE THE PROPERTY OF THE OWNER AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT AND/OR ENGINEER AND FOR APPROVED COMPENSATION.

TAKOTNA HEALTH CLINIC

SOUTHCENTRAL FOUNDATION

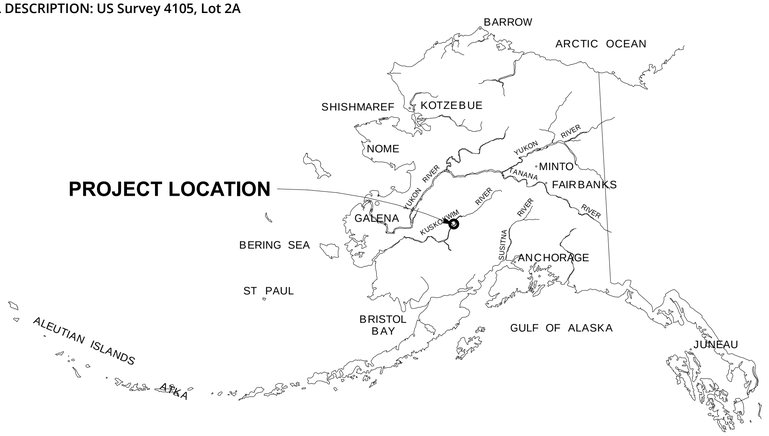
TAKOTNA, AK

100% DRAWING SET

08/07/2020

PROJECT LOCATION

LEGAL DESCRIPTION: US Survey 4105, Lot 2A



CODE SUMMARY

APPLICABLE CODES:

- ALASKA STATE BUILDING CODE (13 AAC 50-55)
- 2012 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2012 INTERNATIONAL BUILDING CODE (IBC)
- 2012 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2012 INTERNATIONAL FIRE CODE (IFC)
- 2012 INTERNATIONAL MECHANICAL CODE (IMC)
- 2012 UNIFORM PLUMBING CODE (UPC)
- 2014 NFPA 70 NATIONAL ELECTRICAL CODE (NEC)
- ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG)

OCCUPANCY CLASSIFICATION:	B, HEALTH CLINIC
TYPE OF CONSTRUCTION:	V-B
SPRINKLER SYSTEM:	NO SYSTEM REQUIRED (LOW OCCUPANCY)
FIRE ALARM SYSTEM:	SYSTEM PROVIDED (DEFERRED SUBMITTAL)
FIRE EXTINGUISHER:	UL RATED 3-A, 40-B:C (NOTED ON FLOOR PLAN)
ALLOWABLE AREA:	9,000 SF, ONE STORY (B, V-B)
ACTUAL AREA:	1,860 SF, ONE STORY
OCCUPANT LOAD:	1,860 / 100 = 19 [18.6]
NUMBER OF EXITS:	1 REQUIRED, 2 PROVIDED
TRAVEL DISTANCE:	200'-0"
COMMON PATH OF TRAVEL:	100'-0"
INTERIOR FINISH CLASS:	TYPICAL: CLASS C EXIT CORRIROR: CLASS B EXIT VESTIBULE: CLASS A

PROJECT TEAM

ARCHITECTURE, SURVEY, CIVIL AND STRUCTURAL ENGINEERING	MECHANICAL AND ELECTRICAL ENGINEERING
LCG Lantech Inc architecture • engineering • surveying 250 H Street Anchorage, AK 99501 P (907) 243-8985 F (907) 243-5629 www.lcgak.com	HZA ENGINEERING SOLUTIONS Mechanical & Electrical Consulting Engineers 113 W. Northern Lights Blvd., Suite 240 Anchorage, Alaska 99503 Tel. (907) 562-1012 Fax (907) 562-1013

PROJECT DESCRIPTION

NEW 1,860 SF CLINIC IN TAKONA, ALASKA. THIS PROJECT INCLUDES CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DESIGN. SITE WORK IS DESIGNED TO COORDINATE WITH FUTURE ADDITIONAL SITE DEVELOPMENT. PROJECT UTILIZES PROPRIETARY FOUNDATION SYSTEM. BUILDING IS METAL STUD FRAMED WITH INSULATED METAL PANEL EXTERIOR AND METAL ROOF.

DRAWING LIST

8/7/2020 12:05:52 PM

TAKOTNA HEALTH CLINIC

1285.01

G1

C:\Users\ula\Desktop\Takotna\1285.01 TAKOTNA CLINIC.rvt

30" x 21" BORDER

GENERAL CIVIL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THIS PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
2. RULES, REGULATIONS, AND REFERENCE SPECIFICATIONS WHICH MAY BE ENUMERATED HEREIN, SHALL BE CONSIDERED TO BE MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR OF FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL AND WORKMANSHIP THAN ARE SPECIFIED HEREIN, WHEN SO REQUIRED.
3. ALL PROPERTY CORNERS AND MONUMENTS DISTURBED DURING CONSTRUCTION, SHALL BE REPLACED BY OR UNDER THE DIRECT SUPERVISION OF A PERSON WHO IS REGISTERED IN THE STATE OF ALASKA AS A PROFESSIONAL LAND SURVEYOR.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT AS NECESSARY TO COMPLETE THE PROJECT.
5. THE CONTRACTOR SHALL TRANSFER ALL REMOVED AND SALVAGEABLE (AS DETERMINED BY THE OWNER'S REPRESENTATIVE) PIPE AND OTHER ASSOCIATED MATERIALS, TO A LOCATION SPECIFIED BY THE OWNER'S REPRESENTATIVE.
6. DEPTH OF PERMAFROST AND GROUND WATER MAY VARY SIGNIFICANTLY THROUGHOUT THE PROJECT SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PERMAFROST EXCAVATION AND CONTROL OF GROUND OR SURFACE WATER.
7. ADEQUATE BACK SLOPES, SHORING, BRACING OR OTHER METHODS ARE REQUIRED TO PREVENT FAILURE OF THE EXCAVATION OR SOILS, AND SHALL BE USED TO PROTECT EXCAVATIONS AND ADJACENT STRUCTURES. CONSTRUCTION PROCEDURES USED DURING TRENCH EXCAVATION SHALL COMPLY WITH CURRENT OSHA REGULATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OVERALL CARE OF PROPERTY USED TO STAGE MATERIALS AND EQUIPMENT, AND THE DRILLING SITE DURING THE CONSTRUCTION PROJECT. STORAGE OF FUEL, OIL, HYDRAULIC FLUID AND OTHER PETROLEUM OR COMBUSTIBLE PRODUCTS SHALL BE STORED AND MAINTAINED IN ACCORDANCE WITH THE ATTACHED SITE PLAN OR AT A LOCATION ACCEPTABLE TO THE OWNERS REPRESENTATIVE.
9. ALL EQUIPMENT OWNED BY THE CONTRACTOR SHALL BE KEPT IN GOOD REPAIR AT ALL TIMES. ALL POWERED EQUIPMENT AND DRILL RIGS SHALL BE INSPECTED BEFORE AND AFTER EACH USE FOR ANY FUEL, HYDRAULIC OIL OR COOLANT LEAKS. THE USE OF POWERED EQUIPMENT WITH KNOWN LEAKS IS PROHIBITED. SITE CLEAN-UP OF ANY ACCIDENTAL PETROLEUM LEAKS OR SPILLS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REMEDIED IMMEDIATELY UPON DISCOVERY. ANY SPILL, REGARDLESS OF SIZE, MUST BE REPORTED TO THE OWNERS REPRESENTATIVE AS SOON AS PRACTICAL. IN ADDITION, THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE ADEC IN ACCORDANCE WITH 18 AAC 75.
10. REFUELING OR OTHER FLUID HANDLING ACTIVITIES MAY HAVE SPECIAL RESTRICTIONS IN SENSITIVE AREAS, SUCH AS WITHIN 100 FEET OF THE WELL. ACCEPTABLE LOCATIONS FOR SUCH ACTIVITIES, IF NOT IDENTIFIED IN THE SITE PLAN, SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE. AN ADEQUATE SUPPLY OF ABSORBENT PADS SHALL BE KEPT ON SITE TO FACILITATE INITIAL REMEDIATION OF SMALL PETROLEUM SPILLS.

ON-SITE SEPTIC GENERAL NOTES

1. CONTRACTOR SHALL ABIDE BY THE MOST RECENT STATE OF ALASKA WASTEWATER REGULATIONS AND ONSITE INSTALLATION GUIDELINES.
2. CONTRACTOR SHALL VERIFY THAT ALL SEPARATION DISTANCE WAIVERS FOR SEPTIC TANK AND DRAINFIELD LOCATIONS STATED ON PLANS HAVE BEEN MET.
3. CONTRACTOR SHALL FURNISH ALL ON-SITE SEPTIC RELATED SUBMITTALS FOR APPROVAL PRIOR TO BEGINNING WORK. ON-SITE SEPTIC SUBMITTALS SHALL INCLUDE SEPTIC TANK, SEPTIC TANK INSULATION, AND COATING, SEPTIC TANK RISERS, DISTRIBUTION BOXES, DRAINFIELD INFILTRATOR CHAMBERS AND END CAPS, ARCTIC PIPE AND FITTINGS, RIGID BOARD INSULATION, BACK FILL, PIPE BEDDING, AND DRAINFIELD SAND.
4. THE CONTRACTOR SHALL MAINTAIN A CLEAN SET OF "AS-BUILT" DRAWINGS SHOWING THE LOCATION AND SWING TIES TO ALL BENDS AND APPURTENANCES. ALL ELEVATIONS SHALL BE MARKED ASB (AS-BUILT) WITH THE CORRECT VALUE INSERTED. DRAWINGS SHALL BE KEPT CURRENT IN RED PENCIL ON A DAILY BASIS IN A NEAT, LEGIBLE FASHION.
5. CONTRACTOR SHALL SUBMIT AS-BUILT REDLINE DRAWINGS TO ENGINEER AND OWNER'S REPRESENTATIVE.

PROJECT RESTORATION NOTES

1. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITION OR BETTER. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PROJECT AREA AND DISPOSED OF IN A MANNER AND LOCATION ACCEPTABLE TO THE CITY. CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION TO AVOID DISTURBING PRIVATE PROPERTY.
2. DISTURBED AREAS OUTSIDE TRAVELED WAYS SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS.
3. ALL DISTURBED AREAS OR SLOPES OUTSIDE THE GRADING LIMITS SHALL BE REGRADED, REPAIRED AND BROADCAST SEEDED AT A RATE OF 10LBS PER 1000 SF WITH THE FOLLOWING SEED MIX:

   ARCTARED RED FECUE (FESTUCA RUBRA) - 50%
   GRUENING ALPINE BLUEGRASS (POA ALPINA) - 20%
   TUNDRA GLAUCOUS BLUEGRASS (POA GLAUCA) - 20%
   NORTRAN TUFTED HAIRGRASS (DESCHAMPIA CAESPITOSA) - 10%

ABBREVIATIONS

APPROX	APPROXIMATE
BV	BALL VALVE
BTU	BRITISH THERMAL UNITS
CMP	CORRUGATED METAL PIPE
CORP	CORPORATION
℄	CENTER LINE
DIA	DIAMETER
DNR	DEPARTMENT OF NATURAL RESOURCES
D/W	DRIVEWAY
EA	EACH
ELEV	ELEVATION
ESMT	EASEMENT
EXIST	EXISTING
F	FAHRENHEIT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FT	FOOT
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GPD	GALLONS PER DAY
GPCD	GALLONS PER CAPITA DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
IE	INVERT ELEVATION
LF	LINEAR FEET
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
NIC	NOT IN CONTACT
PF	PEAKING FACTOR
PI	POINT OF INTERSECTION
ℙ	PROPERTY LINE
PP	POWER/UTILITY POLE
R	RADIUS
ROW	RIGHT OF WAY
SEC	SECOND
SF/SQFT	SQUARE FOOT
SSCO	SANITARY SEWER CLEAN-OUT
SSMH	SANITARY SEWER MANHOLE
SS	SEWER SERVICE
STA	STATION
TBM	TEMPORARY BENCHMARK
TYP	TYPICAL
WS	WATER SERVICE

LEGEND

PROPOSED	EXISTING	DESCRIPTION
		PROPERTY LINE
		EASEMENT LINE
100	100	MAJOR CONTOUR
50	50	MINOR CONTOUR
	5	BLOCK NUMBER
	5	LOT NUMBER
		FENCE LINE
		DRAINAGE SWALE
		GRAVEL ROAD/PAD
	OHE	OVERHEAD UTILITY LINE
	S	SEWER MAIN LINE
	SS	SEWER SERVICE LINE
	W	WATER MAIN LINE
	WS	WATER SERVICE LINE
	F	FUEL LINE
		CULVERT
	CO	CLEANOUT
		FIRE HYDRANT
	MH	SEWER MANHOLE
		WATER VALVE
		UTILITY POLE WITH GUY WIRE

DESIGN CRITERIA

SUMMARY OF WORK

- ABSORPTION FIELD SHALL USE 9 INFILTRATOR CHAMBERS AND SHALL BE CONSTRUCTED AS SPECIFIED IN PLANS.
- SEPTIC EFFLUENT PUMP SHALL BE A LIBERTY FL32M 1/3HP 208/230V I-PHASE MANUAL 1-1/2" DISCHARGE PUMP OR APPROVED EQUAL, CAPABLE OF PROVIDING A MINIMUM OF 22 GPM WITH A RESIDUAL HEAD LOSS OF 10 FT.
- CONTROL PANEL SHALL BE 120/208-230V SINGLE PHASE UNIT WITH NEMA 4X ENCLOSURE. PANEL SHALL BE A LIBERTY, 5XL24=3 I-PH, 0-14.9A, WITH MINIMUM 50' CORD, OR APPROVED EQUAL.
- SEPTIC TANK LIFT STATION ASSEMBLY SHALL BE A LIFEWATER SYSTEM INFILTRATOR IM 1530 OR APPROVED EQUAL

ABSORPTION FIELD SIZING

- HEALTH CLINIC : ESTIMATED AVG DAILY FLOW = 30 GPD
- HEALTH CLINIC: ESTIMATED PEAK DAILY FLOW = 60 GPD (2X AVG DAILY)
- DRAINFIELD DESIGN CAPACITY = 125 GPD (2X PEAK DAILY)
- SAND FILTER LOADING RATE = 1.O GPD/SF
- BASAL SOIL TYPE : BORROW BACKFILL
- BASAL SOIL LOADING RATE = 0.6 GPD/SF
- LINEAR LOADING RATE = 5.0 GPD/FT

  (ALTHOUGH THERE IS A SHALLOW SLOPE (3%±) A SMALL LOADING RATE WAS USED TO ACCOUNT FOR A RELATIVELY SHALLOW IMPERMEABLE LAYER AND TO PREVENT THE POSSIBILITY OF LEAKAGE AT THE TOE OF THE SYSTEM.)
- MOUND SLOPE = 2.5:1
- SAND INFILTRATION AREA DIMENSIONS = 8.5' X 14.7' = 125 SF

  MINIMUM BASAL INFILTRATIVE AREA = 14.5' X 14.7' = 247 SF

  (BASAL INFILTRATIVE AREA FOR THIS SITE IS GREATER THAN THE MINIMUM REQUIRED AREA.)
- NUMBER OF CHAMBERS = 9
- NUMBER OF END CAPS = 6
- NUMBER OF FIELDS = 1 @ 8.5' X 14.7' = 125 SF

LATERALS AND PUMP DESIGN

- LATERAL LENGTH = 3 LATERALS @ 12 FT PER LATERAL
- PIPE TYPE = 1-1/2" SCHEDULE 80 PVC
- ORIFICE SIZE AND SPACING = 1/4" HOLES SPACED AT 24" EVENLY
- ORIFICES PER LATERAL = 6 ORIFICES/LATERAL = 18 TOTAL ORIFICES
- NETWORK FLOW RATE = 1.17 GPM/ORIFICE = 7 GPM/LATERAL = 21 GPM
- FORCE MAIN LENGTH = 33 FT
- TOTAL DYNAMIC HEAD LOSS = 10 FT

  SYSTEM HEAD LOSS = 4.6 FT
  FORCE MAIN HEAD LOSS = 1.4 FT
  ELEVATION HEAD LOSS = 4 FT
- PROVIDE A PUMP CAPABLE OF PROVIDING A MINIMUM OF 22 GPM WITH A RESIDUAL HEAD LOSS OF 10 FT

DISTRIBUTION DOSING

- DOSING VOLUME = 16.6 GAL/DOSE

  (ASSUMES 0.92 GAL/FT FOR 1-1/2" PIPE AND 5 TIMES THE PIPE VOLUME)
- BACK FLOW FROM FORCE MAIN = 3.0 GAL

  (ASSUMES 0.92 GAL/FT F VOID SPACE FOR 1-1/2" PIPE)
- TOTAL DOSE VOLUME = 19.6 = 20 GAL/DOSE
- PUMP RUN TIME = 20 GAL / 22 GPM = 0.91 MIN
- PUMP DAILY CYCLES - AT PEAK DAILY FLOW = 60 GPD/ 20 GAL = 3 (USE 3 DOSE CYCLES PER DAY)
- PUMP DAILY CYCLES - AT MAXIMUM CAPACITY FLOW = 125 GPD/ 20 GAL = 6 (USE 6 DOSE CYCLES PER DAY)

100% DRAWING SET

STATE OF ALASKA 49TH
DAVID R. COOLIDGE CE-8474 EXPIRES: 12-31-20
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

NO	DATE	BY	REVISION

8/5/2020 5:05 PM

250 H Street
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W: LCGAK.com

LCG Lantech Inc architecture · engineering · surveying

SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

CIVIL NOTES, ABBREVIATIONS, AND LEGEND

SHEET SIZE:	34X22
DESIGNED BY:	CS
DRAWN BY:	CS
CHECKED BY:	DC
DATE:	08.07.2020
FILE NO.	1285.01

SHEET NUMBER

C0.0 OF 9

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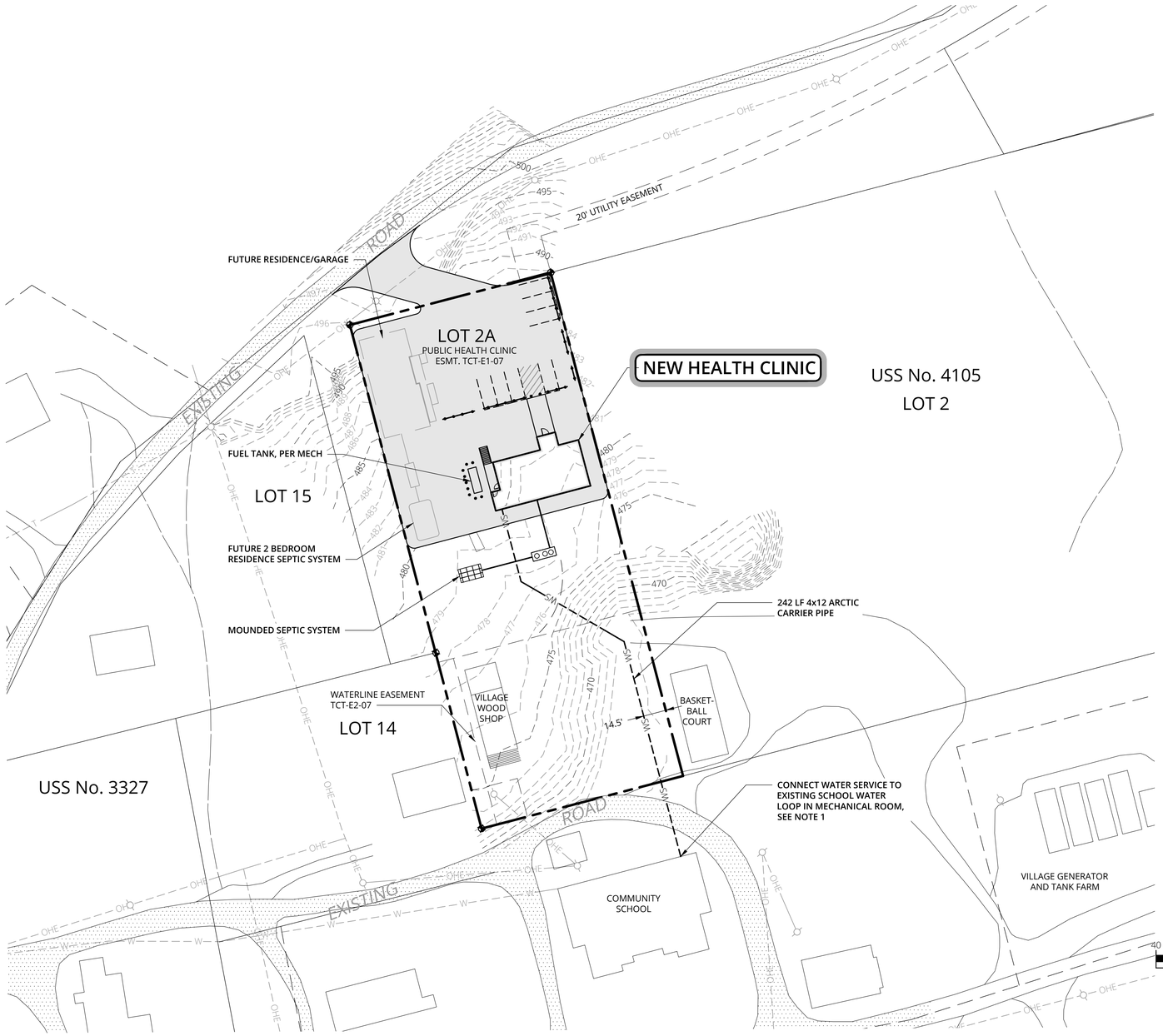
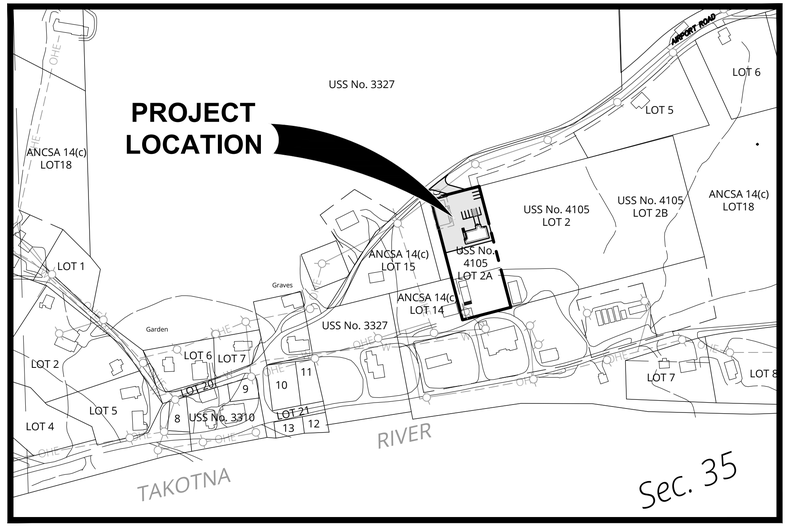
1" ONE INCH



1 C1.0 **OVERALL SITE PLAN**



VICINITY MAP

SITE NOTES

1. CONTRACTOR SHALL COORDINATE WITH CITY OF TAKOTNA WATER OPERATOR (DOUG HEATH @ 907-574-0446) FOR WATER SERVICE TIE-IN WORK AT SCHOOL. THE CLINIC SERVICE CONNECTION CAN BE MADE TO AN EXISTING WATER RETURN LINE LOCATED INSIDE THE SCHOOL MECHANICAL ROOM. ACCESS TO EXISTING RETURN LINE IS BY ROUTING THE CLINIC SERVICE PIPING UP THROUGH THE EXISTING FLOOR APPROXIMATELY 10' WEST OF THE NORTHEAST CORNER OF THE SCHOOL. CONTRACTOR SHALL CONFIRM PREFERRED TIE-IN LOCATION AND SUBMIT A WORK PLAN TO THE ENGINEER 72 HOURS PRIOR TO BEGINNING ANY CONNECTION RELATED WORK.

100% DRAWING SET

STATE OF ALASKA
10TH
DAVID R. COOLIDGE
CE-8474
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

NO	DATE	BY	REVISION

8/7/2020 11:42 AM

250 H Street
Anchorage, AK 99501
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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

OVERALL SITE PLAN

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DESIGNED BY:	CS
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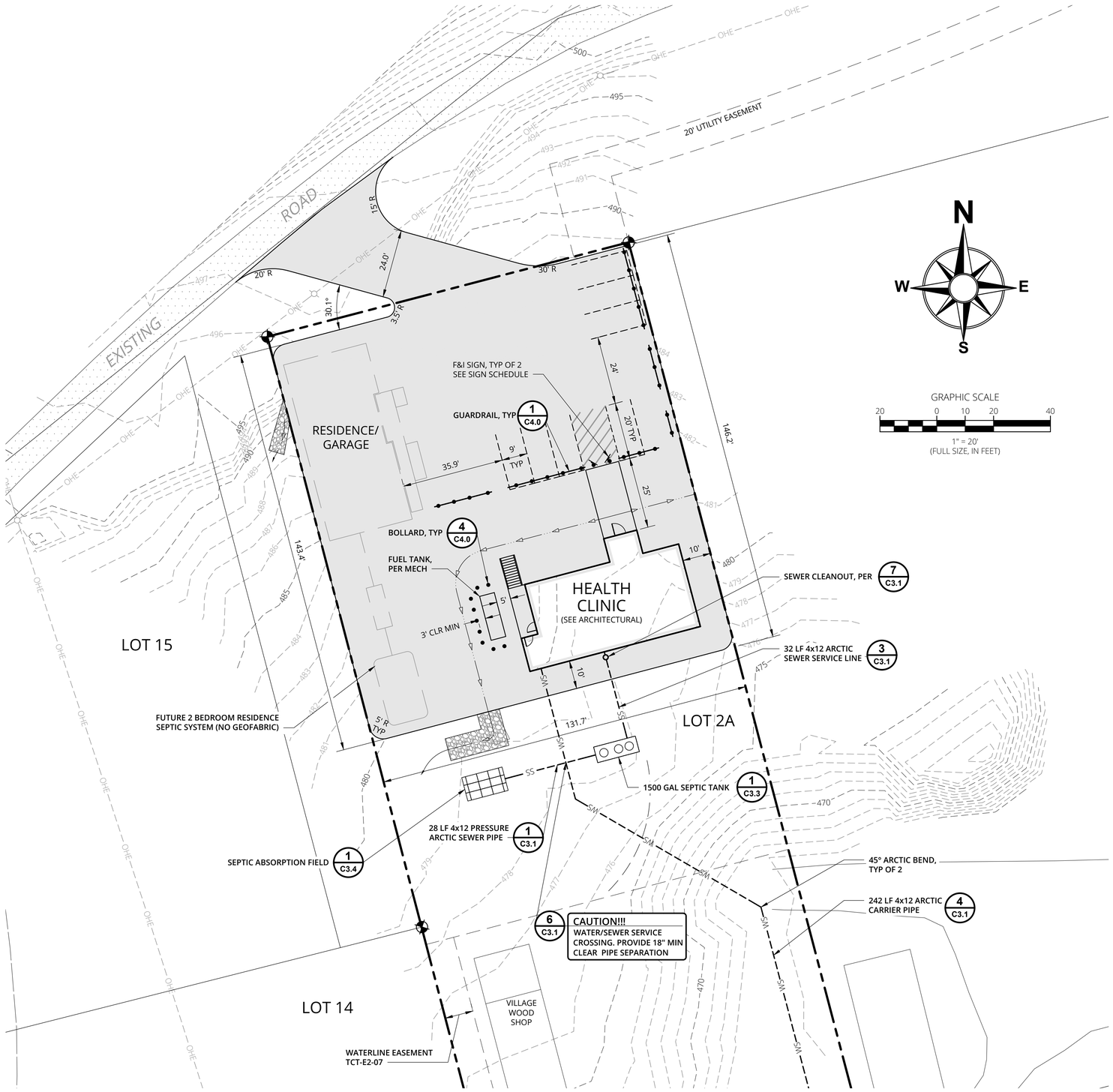
DATE:	08.07.2020
FILE NO.	1285.01
SHEET NUMBER	
C1.0	OF 9

1" ONE INCH P:\1250-1299\1285.01 SCF Takotna Replacement Health Clinic_Civil\DWG\1285.01-TAK-OSI-Health Clinic Site Design.dwg

30" x 21" BORDER



1 C1.1 **SITE PLAN**

GRAPHIC SCALE

20 0 10 20 40

1" = 20'
(FULL SIZE, IN FEET)

SITE NOTES

1. EXISTING GROUND CONTOURS AND SURFACE UTILITY IMPROVEMENTS ARE BASED ON A TOPOGRAPHIC SURVEY PERFORMED MAY 2020 BY SLANA SURVEY. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND CONTROL.
2. DIMENSIONS SHOWN ARE TO PROPERTY LINE, EDGE OF GRAVEL PAD OR EXTERIOR GRID LINE OF BUILDING.

SIGN SCHEDULE

ID	FACING	TYPE	MOUNT	COLOR			SIGN DESCRIPTION
				LEGEND	BACKGROUND	SYMBOL	
A	E	12x18	POLE	RED	WHITE	RED/BLACK	NO PARKING EMERGENCY VEHICLE DROP-OFF

SIGN SCHEDULE NOTES

1. MOUNT SIGN ON GUARDRAIL USING GALVANIZED FASTENERS.

100% DRAWING SET

STATE OF ALASKA
10TH
DAVID R. COOLIDGE
CE-8474
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

NO	DATE	BY	REVISION

8/7/2020 11:42 AM

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TAKOTNA HEALTH CLINIC
TAKOTNA, AK

SITE PLAN

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C1.1 OF 9

1" ONE INCH

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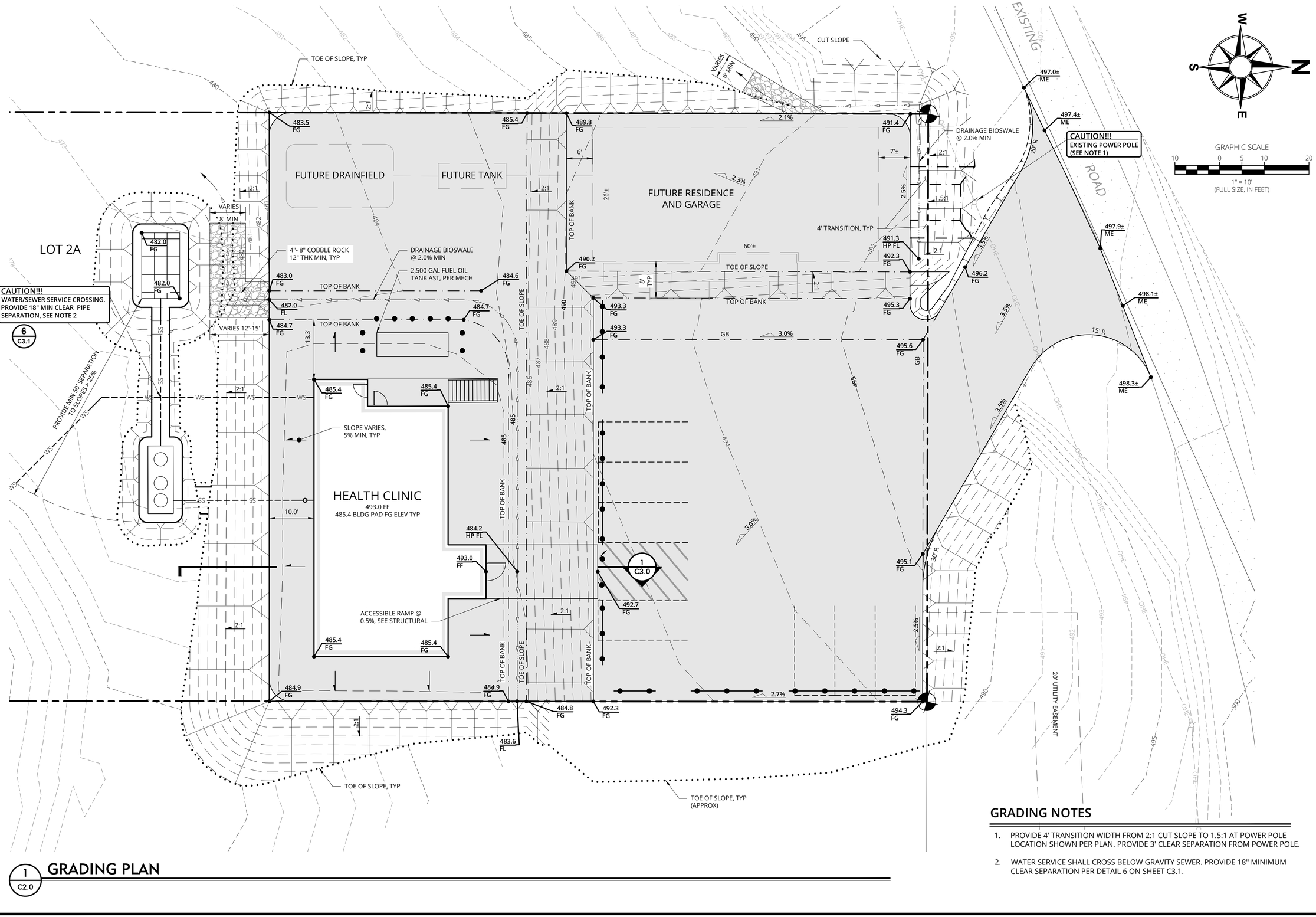

1 C2.0 **GRADING PLAN**

GRADING NOTES

1. PROVIDE 4' TRANSITION WIDTH FROM 2:1 CUT SLOPE TO 1.5:1 AT POWER POLE LOCATION SHOWN PER PLAN. PROVIDE 3' CLEAR SEPARATION FROM POWER POLE.
2. WATER SERVICE SHALL CROSS BELOW GRAVITY SEWER. PROVIDE 18" MINIMUM CLEAR SEPARATION PER DETAIL 6 ON SHEET C3.1.

100% DRAWING SET

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10TH
DAVID R. COOLIDGE
CE-8474
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

GRADING PLAN

SHEET SIZE:	34X22
DESIGNED BY:	CS
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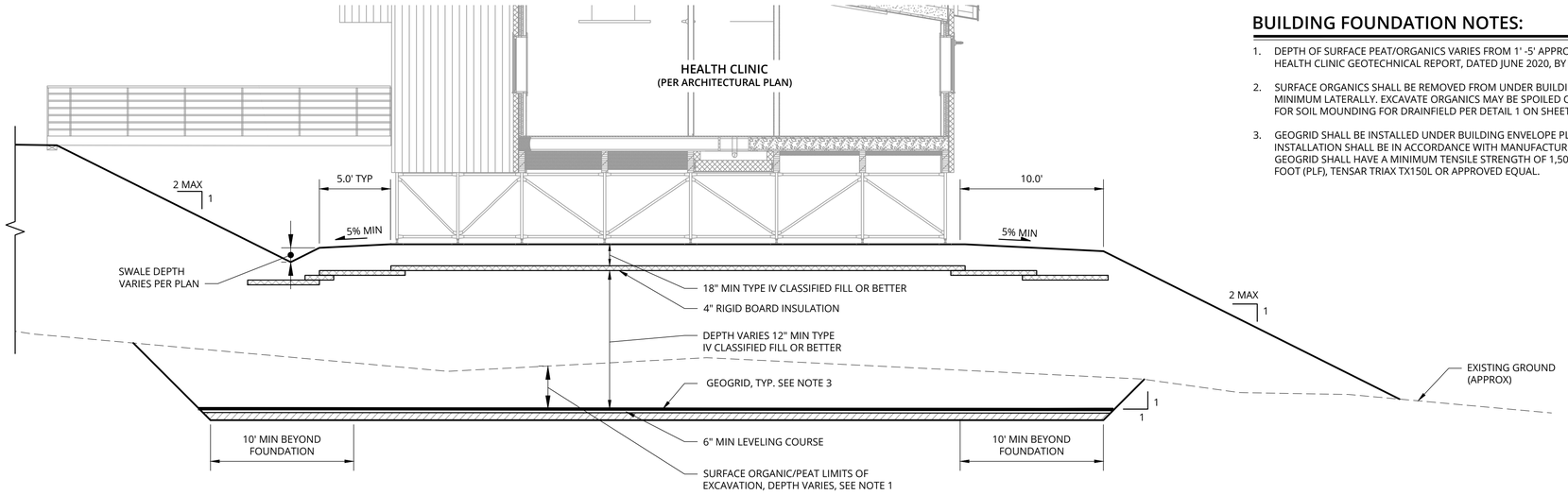
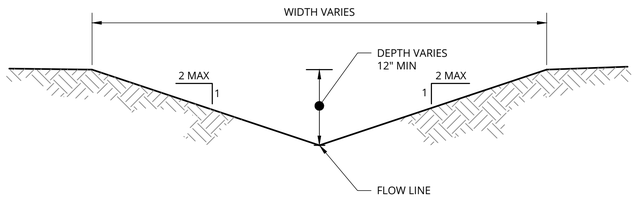


1 C3.0 INSULATED BUILDING PAD SECTION

NO SCALE

BUILDING FOUNDATION NOTES:

1. DEPTH OF SURFACE PEAT/ORGANICS VARIES FROM 1' -5' APPROXIMATE, PER TAKOTNA HEALTH CLINIC GEOTECHNICAL REPORT, DATED JUNE 2020, BY NGE/TFT
2. SURFACE ORGANICS SHALL BE REMOVED FROM UNDER BUILDING ENVELOP PLUS 10' MINIMUM LATERALLY. EXCAVATE ORGANICS MAY BE SPOILED ON SITE AND/OR USED FOR SOIL MOUNDING FOR DRAINFIELD PER DETAIL 1 ON SHEET C3.3.
3. GEOGRID SHALL BE INSTALLED UNDER BUILDING ENVELOPE PLUS 10' MIN LATERALLY. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. GEOGRID SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1,500 POUNDS PER LINEAL FOOT (PLF), TENSAR TRIAX TX150L OR APPROVED EQUAL.



3 C3.0 TYPICAL SWALE SECTION

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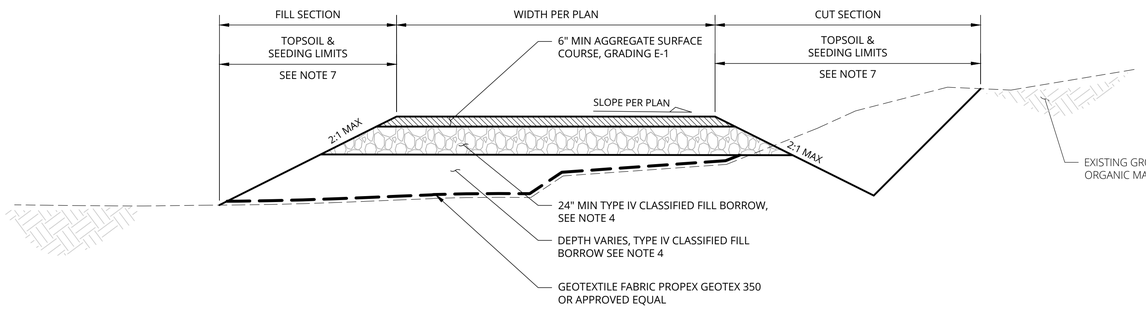
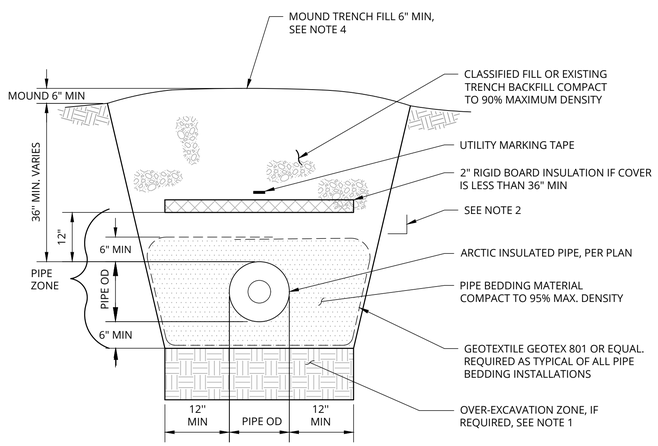


PAD NOTES:

1. DEPTH VARIES UNDER THE 24" SECTION TO ACHIEVE ELEVATION SPECIFIED IN THE PLANS. THE FIRST LIFT MAY BE INCREASED TO 18-INCH AND/OR STATIC ROLLED TO ACHIEVE A STABLE BASE FOR FURTHER FILL. ALL SUBSEQUENT FILL SHALL BE PLACED IN A MAXIMUM LIFT THICKNESS OF 12 INCHES AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY.
2. CONTRACTOR SHALL RECONNECT EXISTING DRIVEWAY ENTRIES WHERE REQUIRED, AND SHAPE AND TRIM THE EDGE OF ROADWAY CUTS AND FILLS TO BLEND WITH EXISTING NATURAL GROUND.
3. CONTRACTOR SHALL PERFORM CLEARING OF SITE WITHOUT DISTURBING ORGANIC MAT. LEVELING COURSE SHALL BE PLACED OVER UNDISTURBED ORGANIC MAT LAYER.
4. FILL MATERIAL SHALL BE LOCALLY AVAILABLE BORROW GRANULAR MATERIAL.
5. BUILDING PAD AND DRIVEWAY SHALL BE SLOPED AS INDICATED PER PLAN.
6. PROVIDE 3" TOPSOIL PRIOR TO SEEDING SCARIFY AND TRACK WALK PERPENDICULAR TO THE SLOPE WITH SMALL TRACK DOZER. PAD SLOPES SHALL BE BROADCAST SEEDED AT A RATE OF 5 LBS PER 1000 SF WITH SEED MIX PER SHEET C0.
7. TOPSOIL MATERIAL SHALL BE REASONABLY FREE FROM ROOTS, CLODS, WEEDS, BRUSH, STICKS, STUBBLE, OR OTHER LITTER AND BE FREE DRAINING.

2 C3.0 UNINSULATED PAD AND DRIVEWAY SECTION



TRENCH NOTES

1. IF ORGANICS, SILTS AND/OR ICE RICH PERMAFROST ARE ENCOUNTERED BENEATH THE PIPE ZONE, OVER-EXCAVATE A MINIMUM OF 12" AND INSTALL GEOTEXTILE FABRIC (PROPEX GEOTEX 350 OR EQUAL) AS SHOWN. REPLACE THE DELETERIOUS MATERIAL WITH LOCALLY AVAILABLE 2" MINUS GRANULAR COMPATIBLE FILL (WITH <15% PASSING THE NO. 200 SIEVE) OR ENGINEER APPROVED TRENCH EXCAVATION MATERIAL. PLACE FILL, IN THAWED CONDITION, WITH MAXIMUM 12"' LIFTS AND COMPACT TO 95% OF MAXIMUM DENSITY.
2. ALL TRENCHES AND OTHER EXCAVATIONS SHALL BE SLOPED OR SHORED IN ACCORDANCE WITH OSHA STANDARDS.
3. AFTER BACKFILLING, REGRADE ALL DITCH LINES AND RESTORE ALL DRAINAGE SLOPES AND STRUCTURES TO PRE-CONSTRUCTION CONDITIONS.
4. FOR SHALLOW PIPE BURY SITUATIONS, MOUND FILL ABOVE PIPE AS NEEDED TO ACHIEVE MINIMUM 24" COVER OVER PIPE. FOR STANDARD TRENCH PROVIDE MINIMUM OF 6" OF MOUNDED FILL FOR DRAINAGE.

4 C3.0 TYPICAL TRENCH SECTION

NO SCALE

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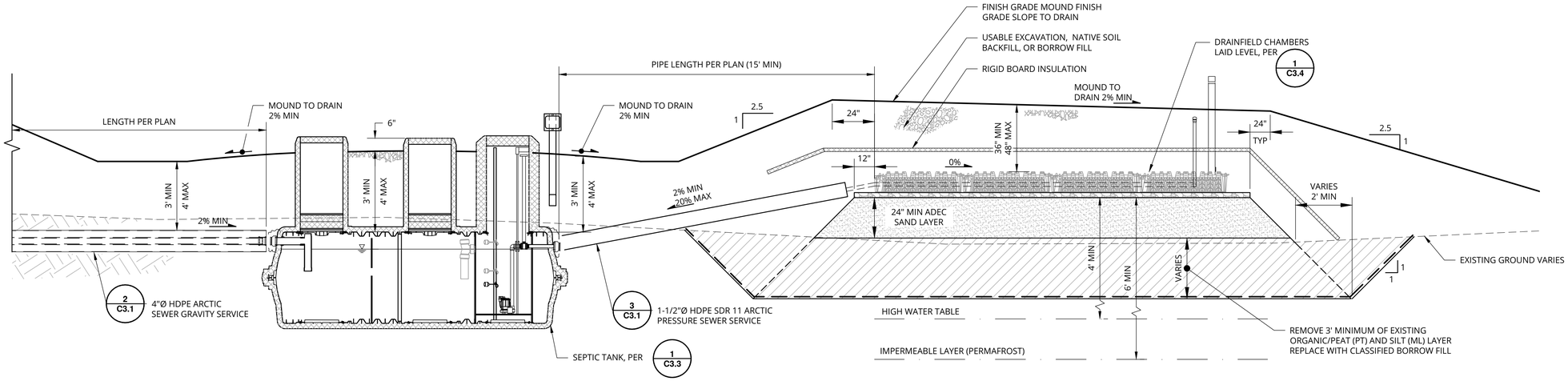
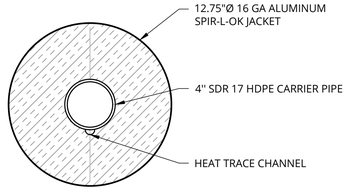
30" x 21" BORDER



1 C3.1 PRESSURIZED MOUNDED SEPTIC SYSTEM PROFILE

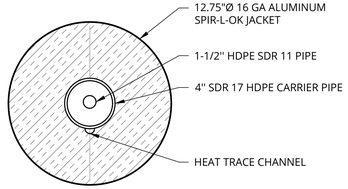
NOT TO SCALE



SECTION

2 C3.1 ARCTIC SEWER GRAVITY SERVICE PIPE

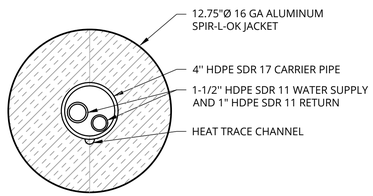
SCALE: 2" = 1'



SECTION

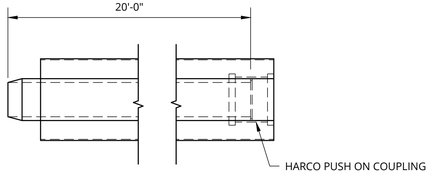
3 C3.1 PRESSURE ARCTIC SEWER PIPE

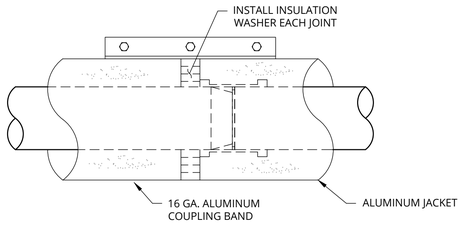
SCALE: 2" = 1'

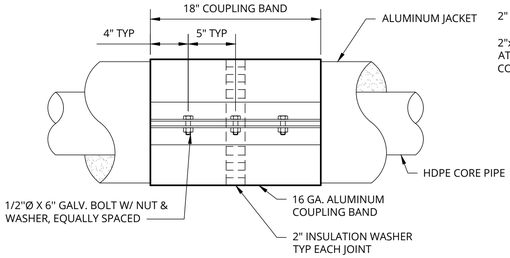


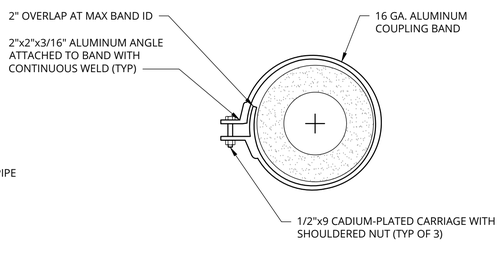
4 C3.1 ARCTIC WATER SERVICE PIPE

SCALE: 2" = 1'



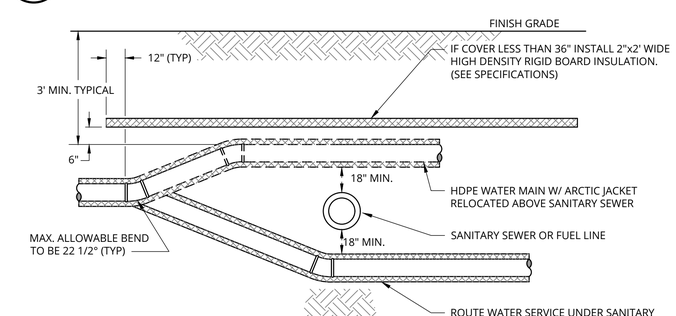






5 C3.1 ARCTIC PIPE DETAILS

NOT TO SCALE

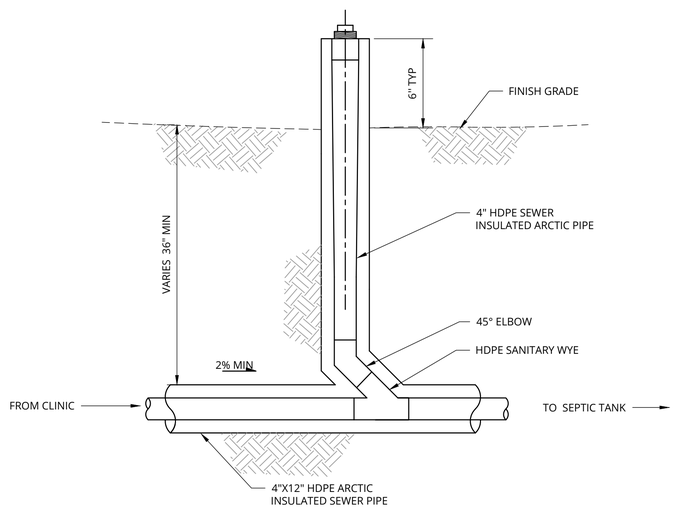


OBSTRUCTION NOTES:

1. ROUTE WATER SERVICE OVER OR UNDER SANITARY SEWER SERVICE.
2. CONTRACTOR SHALL AS-BUILT LOCATIONS OF ALL OBSTACLES ENCOUNTERED.
3. LOCALIZED HIGH POINT WILL REQUIRE INSTALLATION OF AN AUTOMATIC AIR RELEASE VALVE.
4. KNOWN CONFLICTS ARE SHOWN ON THE DRAWINGS. ADDITIONAL CONFLICTS AND OBSTRUCTIONS SHALL BE HANDLED ON A CASE BY CASE BASIS.

6 C3.1 TYPICAL PIPE CROSSING

NOT TO SCALE



7 C3.1 SEWER CLEANOUT

NOT TO SCALE

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WATER AND SEWER SERVICE DETAILS

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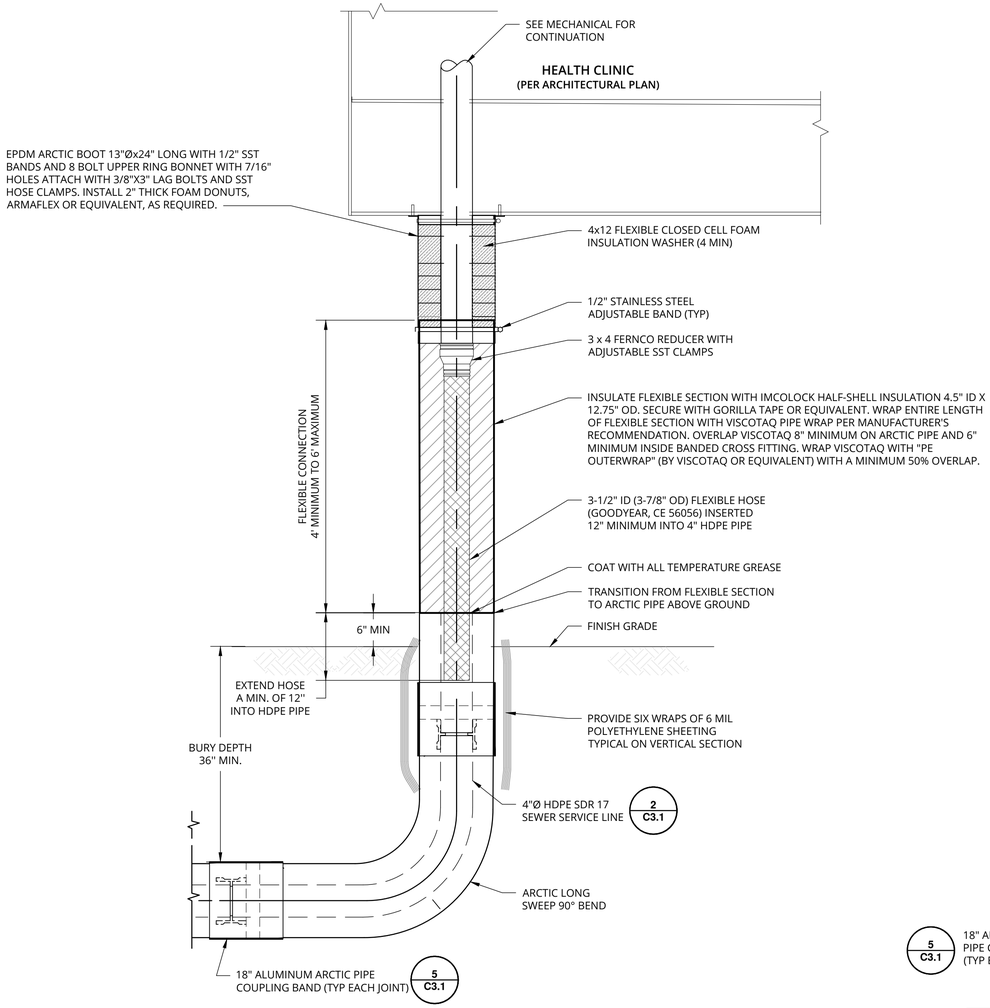
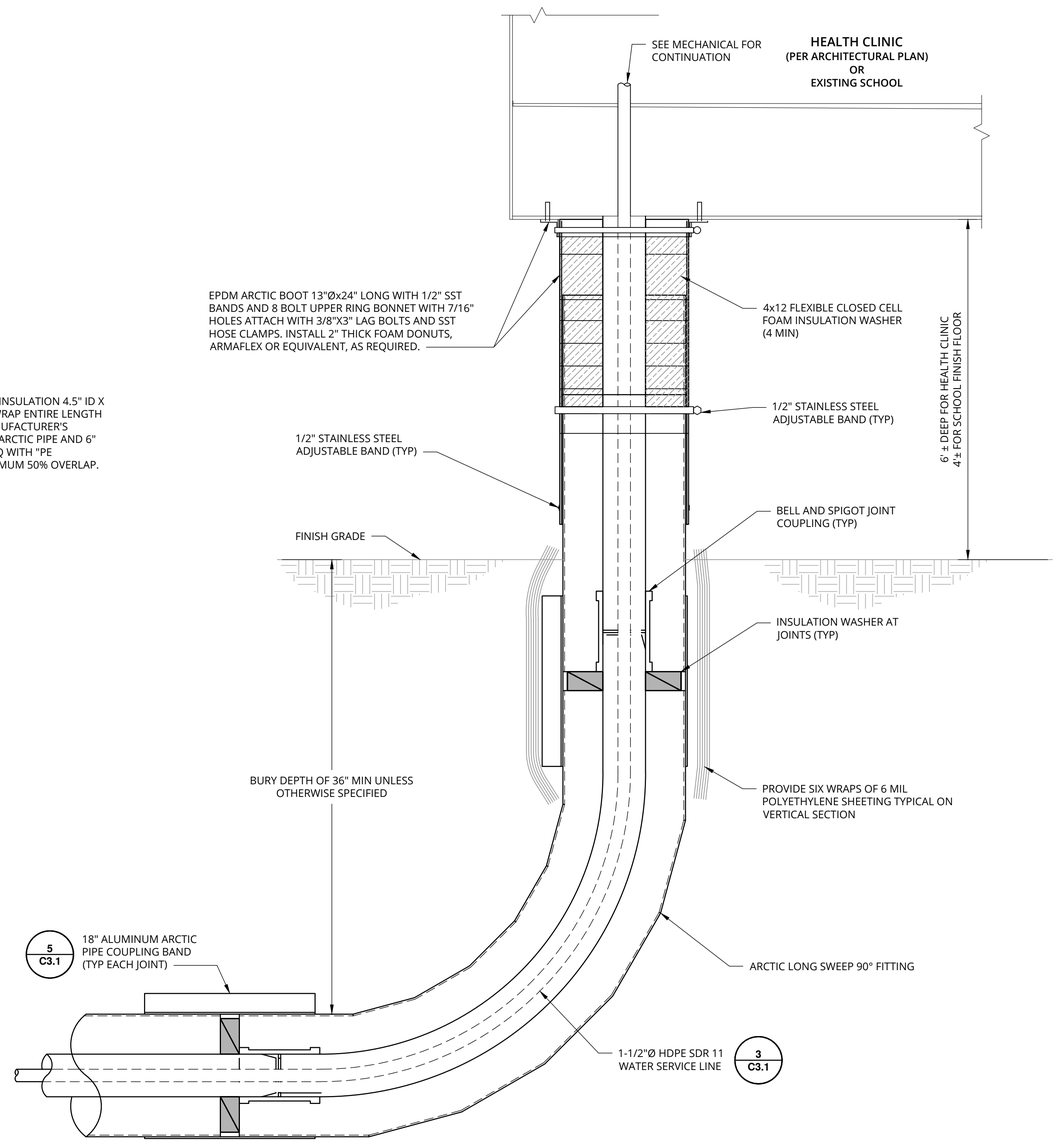


1 C3.2 SEWER CONNECTION (CLINIC)

NOT TO SCALE



2 C3.2 WATER SERVICE CONNECTION (CLINIC AND SCHOOL)

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SERVICE CONNECTION DETAILS

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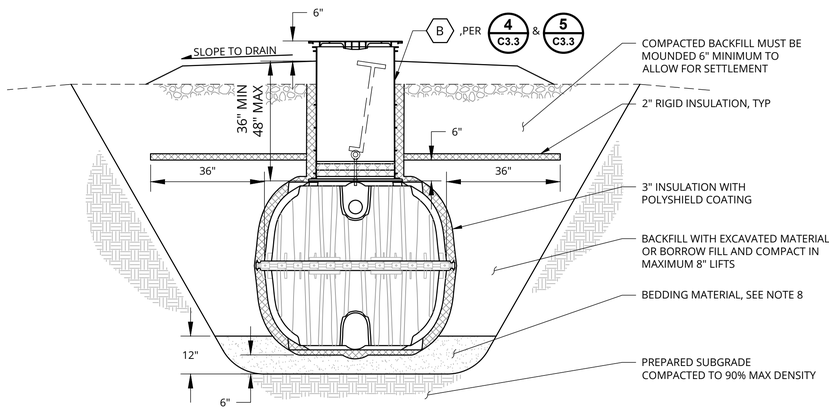


1 C3.3 SEPTIC TANK - ELEVATION

NO SCALE

SUBMERGED SEPTIC TANK BUOYANCY CALCULATIONS

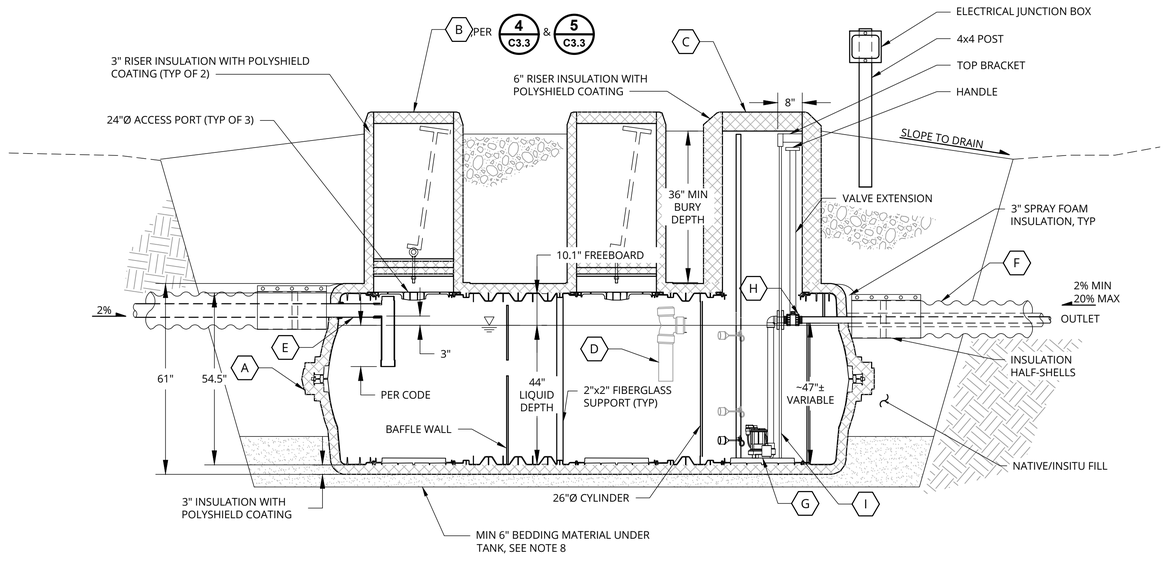
1500 GALLON TANK (INFILTRATOR IM1530)		
TANK RISER VOLUME (3X)	GAL	281
GROSS TANK VOLUME W/RISER	GAL	1818
TANK UPLIFT FORCE	LBS	15162
TANK FOOTPRINT	SF	76
COVER SOIL DEPTH	FT	3.0
COVER SOIL (120 PCF - 62.4 PCF)	(LBS/CF)	83
TOTAL COVER SOIL	(LBS)	18924
TANK WEIGHT	(LBS)	501
RESULTANT DOWNWARD FORCE (LBS)	(LBS)	4263

TANK DIMENSION TABLE

STORAGE CAPACITY (GALLONS)	WIDTH (INCHES)	LENGTHS (INCHES)	HEIGHT (INCHES)	MODEL#
1,537	62.2	176	55.0	IM-1530

PARTS TABLE

ID	DESCRIPTION
A	POLYETHYLENE SEPTIC TANK, INFILTRATOR, SEE TANK DIMENSION TABLE
B	24" BOLTING LID WITH 4" INSULATION (TYP OF 2)
C	24" BOLTING LID WITH 6" INSULATION
D	BAFFLE OVERFLOW
E	DOUBLE SANITARY TEE ROTATED 90° 4" PVC INLET TEE
F	4" HDPE SDR 17 WITH 12.75" SPIR-L-OK ALUMINUM JACKET WITH 1-1/2" SCH 80 PVC PRESSURE SEWER PIPE. SEE SHEET C3.1
G	LIBERTY FL32M 1/3 HP 208/230V I-PH LIFT STATION PUMP WITH PUMP FLOAT AND HIGH WATER ALARM, 1-1/2" DISCHARGE AND 3/4" SOLIDS HANDLING.
H	1-1/2" PVC BALL VALVE
I	LIBERTY PUMPS, GUIDE RAIL SYSTEM FOR 1-1/2" DISCHARGE. MODEL 4808000

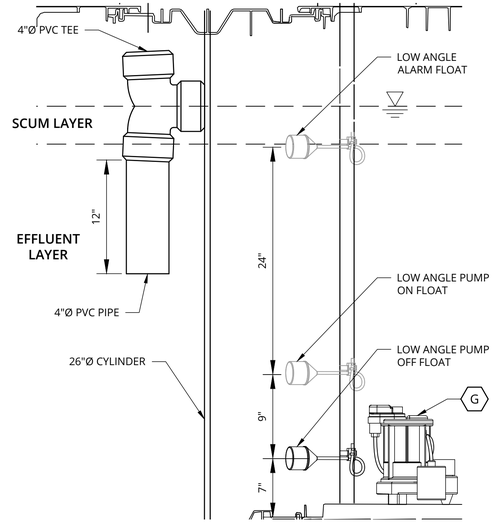


2 C3.3 SEPTIC TANK - SECTION

NO SCALE

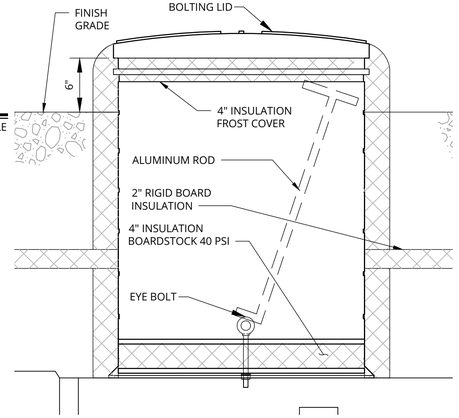
NOTES:

1. INSTALL TANK IN ACCORDANCE WITH ALL MANUFACTURER INSTRUCTIONS, GUIDELINES AND RECOMMENDATIONS.
2. TANK SHALL BE INFILTRATOR IM-1530 OR APPROVED EQUAL. TANK SHALL HAVE A CAPACITY OF 1,500 GALLONS OR GREATER.
3. THE TANK SHALL BE POLYETHYLENE AND HAVE AN ALARM SYSTEM, WITH BOTH AUDIBLE AND VISUAL ALARMS, TO ALERT THE CLINIC OPERATORS IN CASE OF HIGH WATER.
4. PUMP SHALL MEET THE FLOW AND HEAD REQUIREMENTS SPECIFIED ON SHEET C0.0.
5. PLACE AND COMPACT BACKFILL AROUND TANK IN MAX 12" LOOSE LIFTS. PLACE AND COMPACT BACKFILL TO BOTTOM OF INLET AND OUTLET PIPE FOR FULL SUPPORT BEFORE INSTALLING PIPES INTO AND OUT OF TANK, PLACE AND COMPACT BACKFILL TO TOP OF TANK BEFORE INSTALLING INSULBOARD, IF REQUIRED, OVER TANK.
6. EXTEND BACKFILL TO 1' BELOW BOTTOM OF RISER LID, SLOPE AWAY FROM TANK AT MINIMUM 2% FOR 5-FEET TO DIRECT RUN-OFF AWAY FROM RISER.
7. RIGID BOARD INSULATION SHALL BE DOW STYROFOAM HIGHLOAD 40 OR APPROVED EQUIVALENT.
8. BEDDING MATERIAL SHALL BE 1-INCH MINUS GRANULAR SAND OR BORROW FILL MATERIAL PER SPECIFICATIONS.



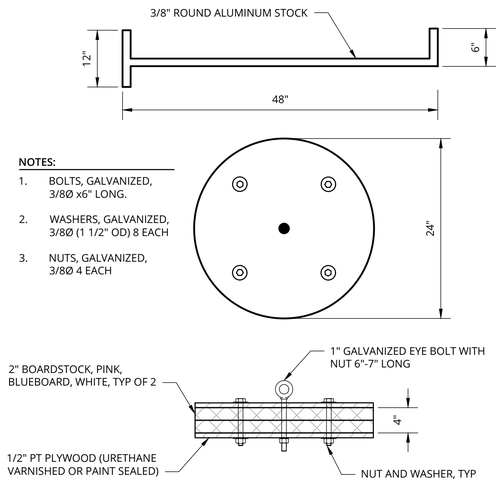
3 C3.3 BAFFLE OVERFLOW AND FLOAT ASSEMBLY

NO SCALE



4 C3.3 TANK RISER LID

NO SCALE



5 C3.3 FROST COVER AND J HOOK ASSEMBLY

NO SCALE

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SEPTIC TANK DETAILS

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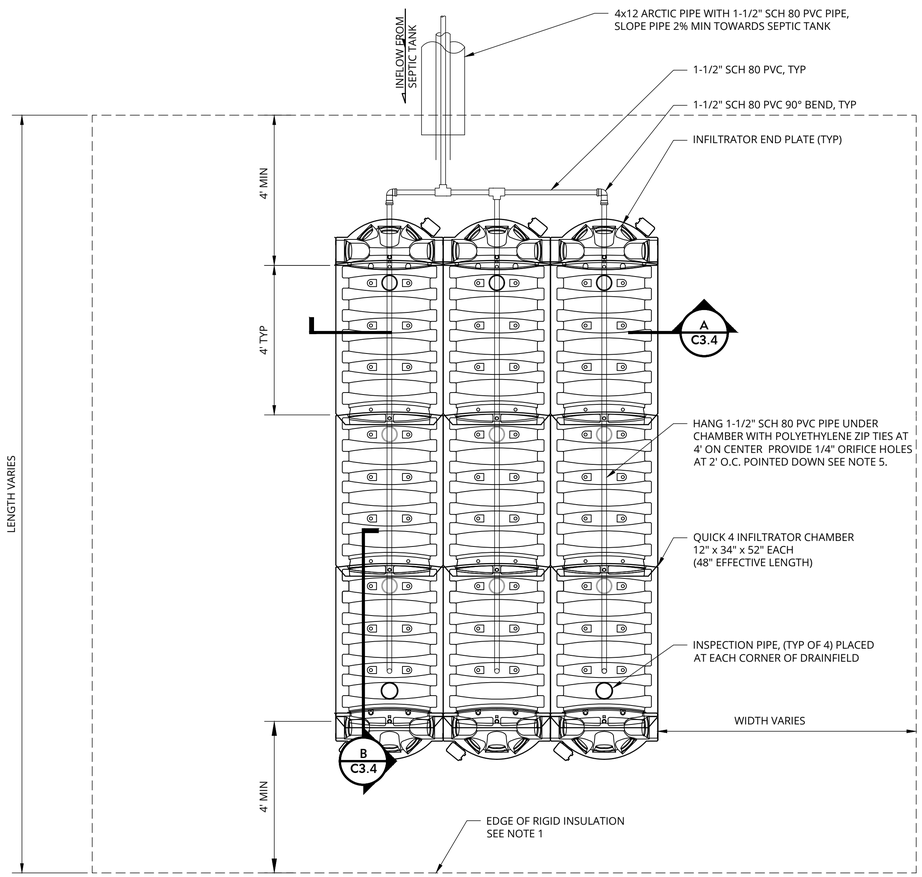
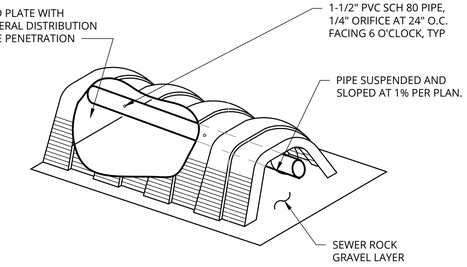


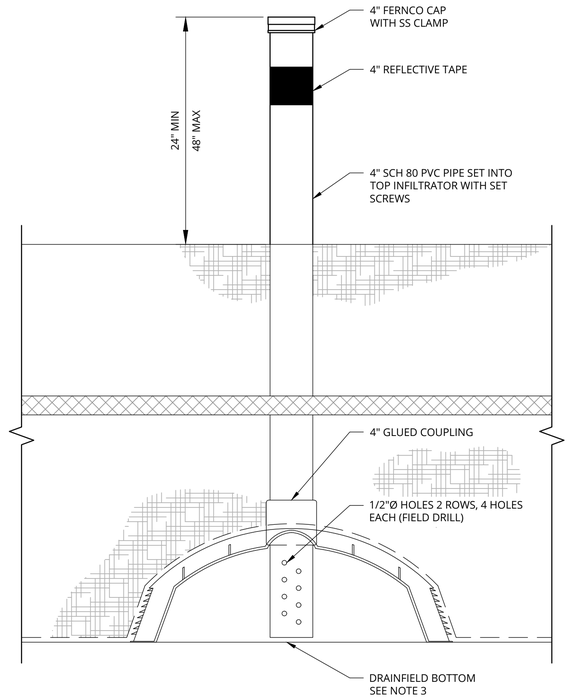
NOTES

1. EXTEND RIGID INSULATION 4' MINIMUM FROM THE ENDS OF THE INFILTRATOR CHAMBERS.
2. COVER INFILTRATORS WITH GEOTEXTILE FABRIC, PROPEX GEOTEX 801 OR EQUAL. PROVIDE MINIMUM OVERLAP AT ALL JOINTS. EXTEND 1'-0" MINIMUM BEYOND ALL SIDES OF INFILTRATORS.
3. DO NOT COMPACT DRAINFIELD BOTTOM. KEEP EQUIPMENT OUT OF THIS AREA. PLACE SAND OR GRAVEL FROM SIDES OF EXCAVATION AND FINAL GRADE BY HAND.
4. SEE SPECIFICATIONS FOR SEPTIC SYSTEM CONSTRUCTION REQUIREMENTS.
5. SUSPEND LATERALS 2" BELOW CEILING OF CHAMBER WITH POLYETHYLENE ZIP TIES. LATERAL PIPE SHALL MAINTAIN A MINIMUM 1% SLOPE BACK TO THE SEPTIC TANK TO ALLOW PIPE TO DRAIN FREELY.



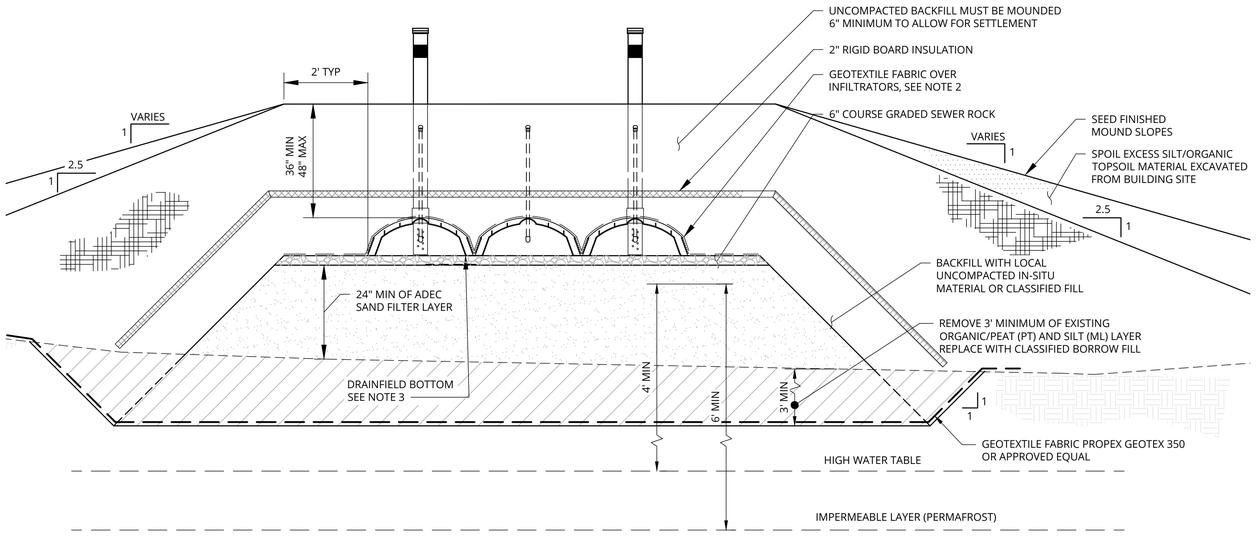
2 C3.4 PRESSURE SYSTEM CHAMBER LAYOUT

NO SCALE

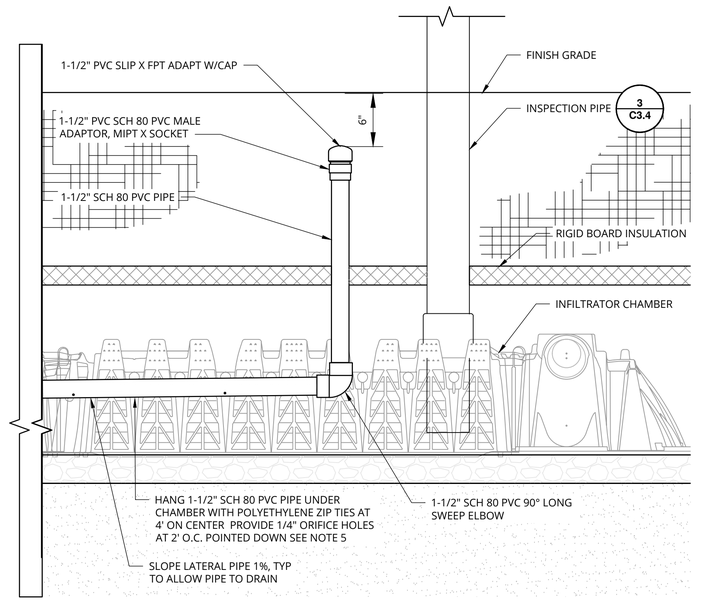


3 C3.4 INSPECTION PIPE DETAIL

NO SCALE



SECTION A



SECTION B

1 C3.4 CONVENTIONAL ABSORPTION FIELD

NO SCALE

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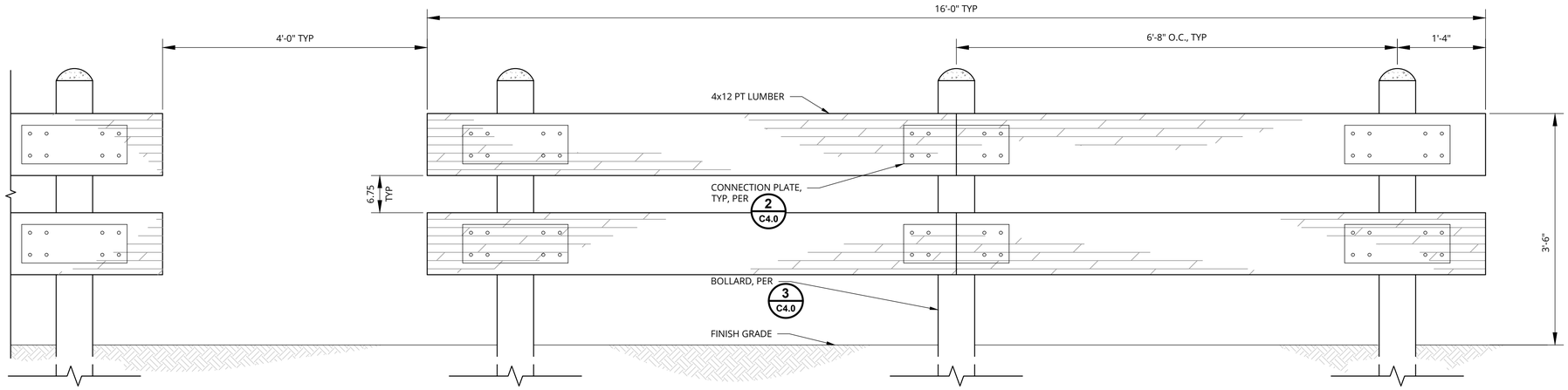
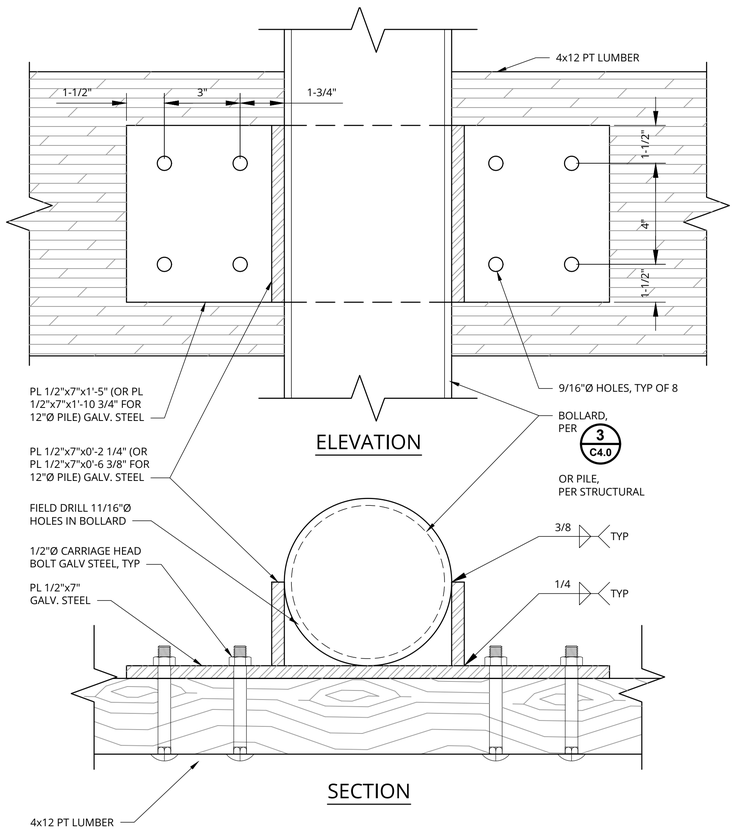
1" ONE INCH P:\1250-1299\1285.01 SCF Takotna Replacement Health Clinic\Civil\DWG\1285.01-TAK-DSIDT-Health Clinic Civil Details.dwg

30" x 21" BORDER



1 C4.0 GUARDRAIL DETAIL

SCALE: 1"=1'

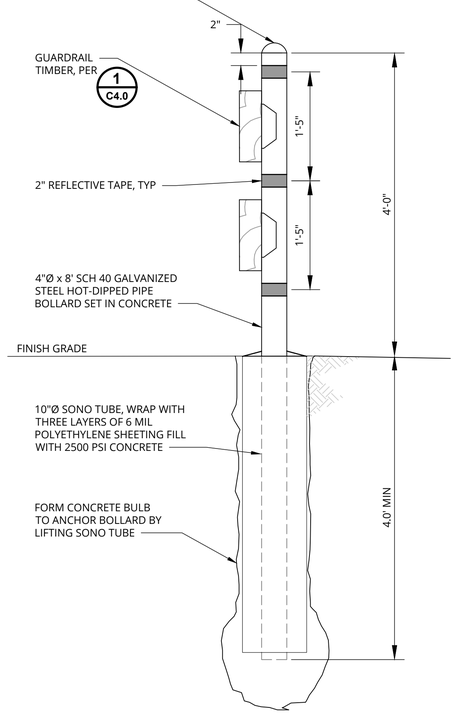


NOTE

1. BOLLARDS, BOLLARD CONNECTION PLATES, AND CONNECTORS SHALL BE HOT DIP GALVANIZED AS PER FEDERAL SPECIFICATION QQ-Z-351.

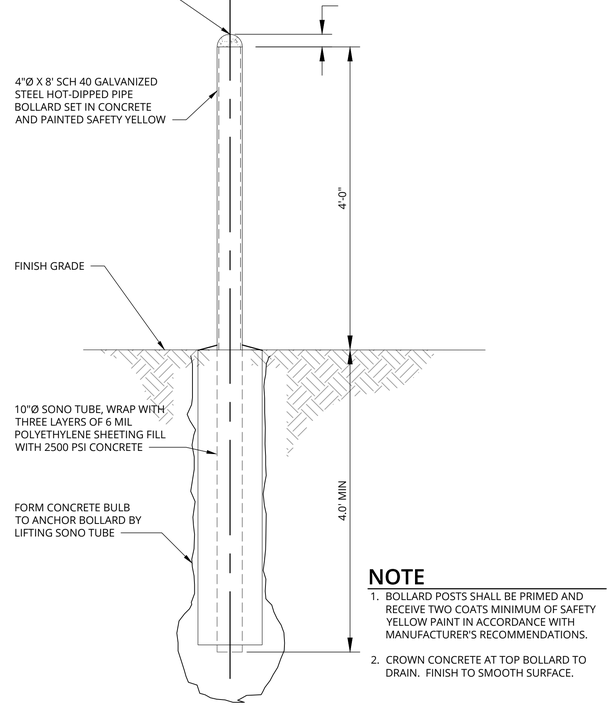
2 C4.0 BOLLARD CONNECTION PLATE

SCALE: 1" = 3'



3 C4.0 GUARDRAIL SECTION

NO SCALE



NOTE

1. BOLLARD POSTS SHALL BE PRIMED AND RECEIVE TWO COATS MINIMUM OF SAFETY YELLOW PAINT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. CROWN CONCRETE AT TOP BOLLARD TO DRAIN. FINISH TO SMOOTH SURFACE.

4 C4.0 BOLLARD DETAIL

NO SCALE

100% DRAWING SET

STATE OF ALASKA
19TH
DAVID R. COOLIDGE
CE-8474
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

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TAKOTNA HEALTH CLINIC
TAKOTNA, AK

GUARDRAIL DETAILS

P:\1250-1299\1285.01 SCF Takotna Replacement Health Clinic_Civil\DWG\1285.01-TAK-DSIDT-Health Clinic Civil Details.dwg

ONE INCH 1"

SHEET SIZE:	34X22
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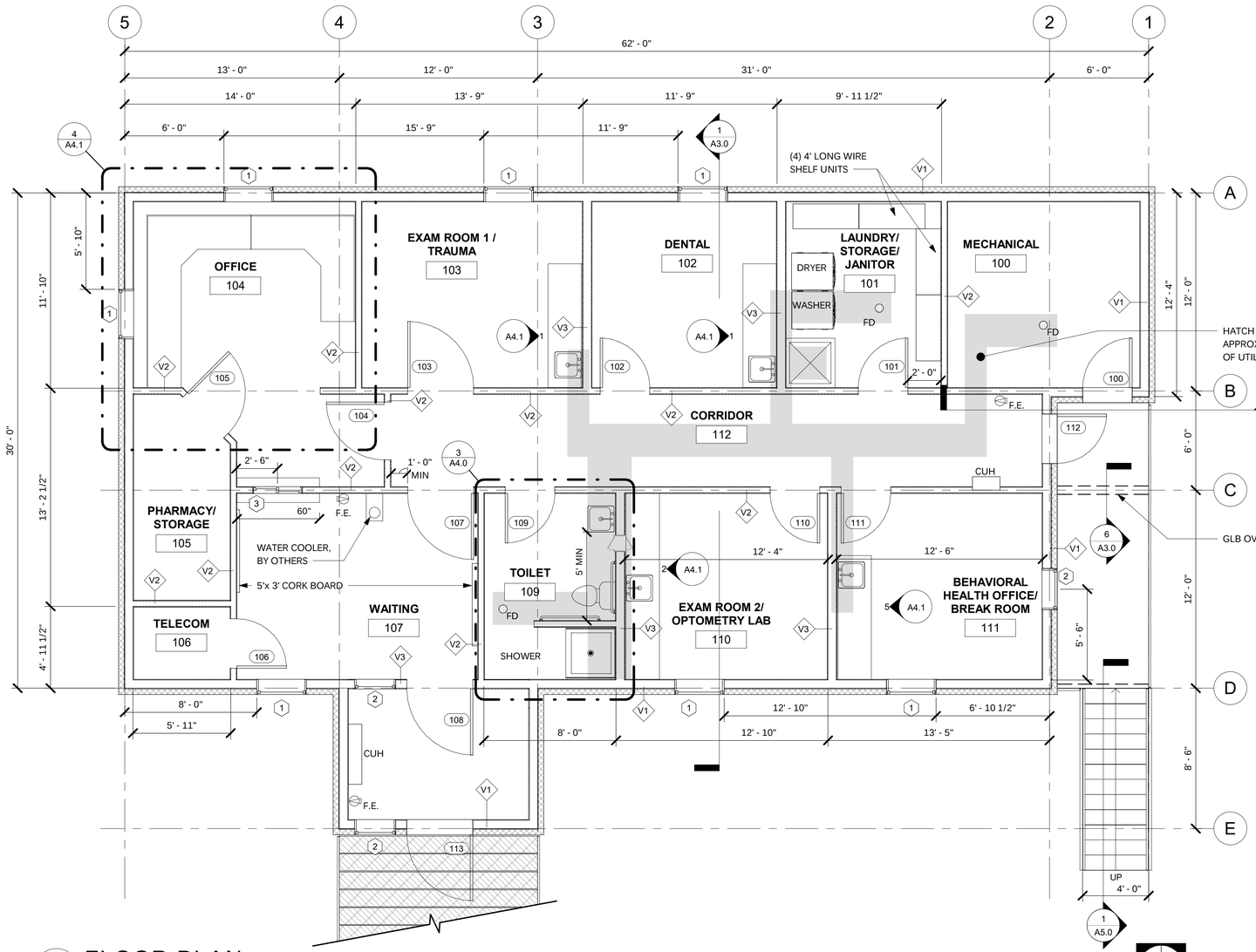
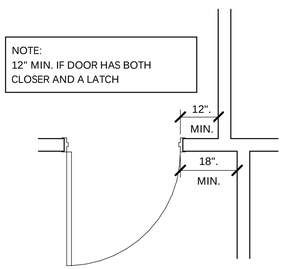
DATE:	08.07.2020
FILE NO.	1285.01

SHEET NUMBER

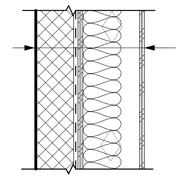
C4.0 OF 9



1 FLOOR PLAN
A1.0 1/4" = 1'-0"

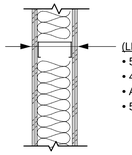


4 EGRESS DOOR CLEARANCE
A1.0 1/2" = 1'-0"



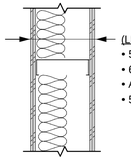
EXTERIOR TO INTERIOR:
- INSULATED METAL PANEL (R-32)
- WEATHER RESISTIVE MEMBRANE
- STRUCTURAL SHEATHING
- 6" METAL STUD
- 3 1/2" FIBERGLASS BAT INSULATION (R-15)
- 5/8" TYPE 'X' GWB

V1 EXTERIOR WALL



(LEFT TO RIGHT)
- 5/8" TYPE 'X' GWB
- 4" METAL STUD @ 16" O.C.
- ACOUSTICAL BATT INSULATION
- 5/8" TYPE 'X' GWB

V2 INTERIOR WALL

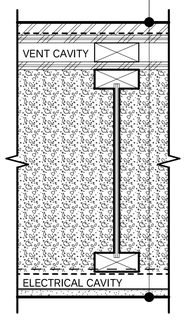


(LEFT TO RIGHT)
- 5/8" TYPE 'X' GWB
- 6" METAL STUDS @ 16" O.C.
- ACOUSTICAL BATT INSULATION
- 5/8" TYPE 'X' GWB

V3 INTERIOR PLUMBING WALL

1. PROVIDE ACOUSTICAL SEALANT AT ALL EDGES AND PENETRATIONS THROUGH ACOUSTICAL WALLS.
2. ALL WALLS ARE TO EXTEND TO UNDERSIDE OF ROOF OR ROOF FRAMING.

2 VERTICAL ASSEMBLIES
A1.0 1 1/2" = 1'-0"



ROOF ASSEMBLY
- PREFINISHED METAL ROOFING
- ICE & WATER SHIELD (OVER ENTIRE ROOF)
- 5/8" CDX PLYWOOD SHEATHING
- 2x4 RUNNERS IN LINE WITH JOIST CHORD
- STRUCTURAL SHEATHING
- PREMANUFACTURED ROOF JOISTS W/
- 16" DENSE-PACK FIBERGLASS INSULATION [R68]
- INSULATION FABRIC
- VAPOR RETARDER
- 2x4 RUNNERS @ 24" PERPENDICULAR TO JOISTS
- CEILING PER SCHEDULE

3 ROOF ASSEMBLY
A1.0

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1" ONE INCH

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TAKOTNA HEALTH CLINIC
TAKOTNA, AK

FLOOR PLAN AND ASSEMBLIES

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1" ONE INCH

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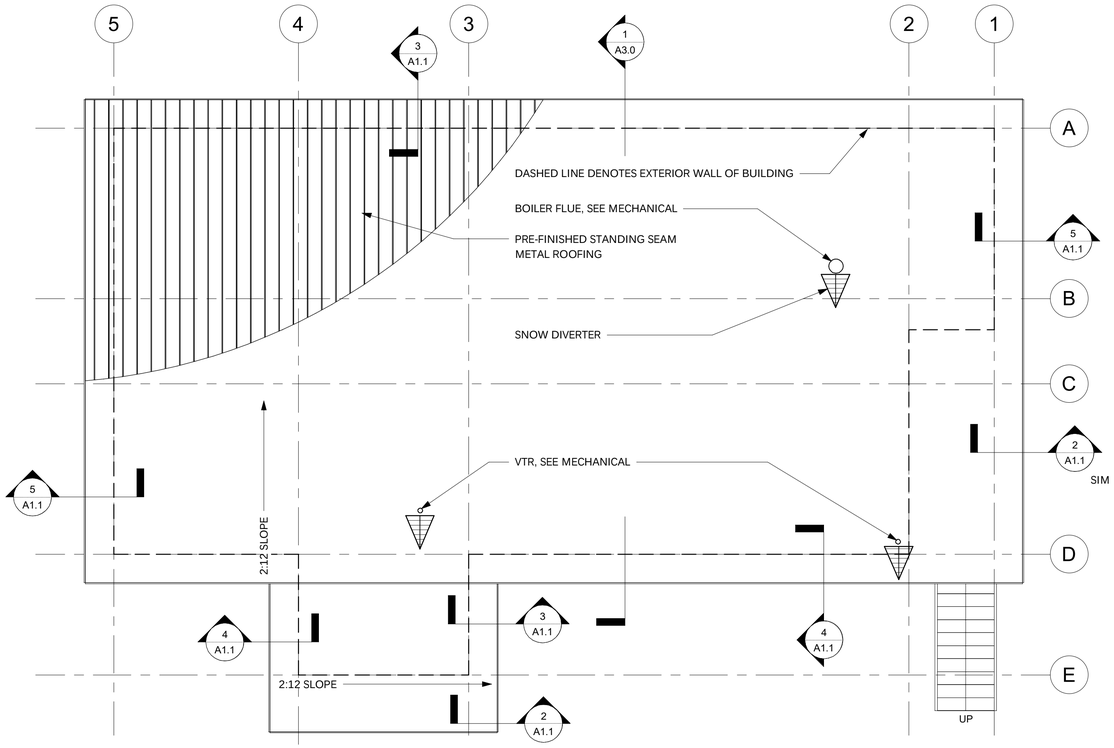
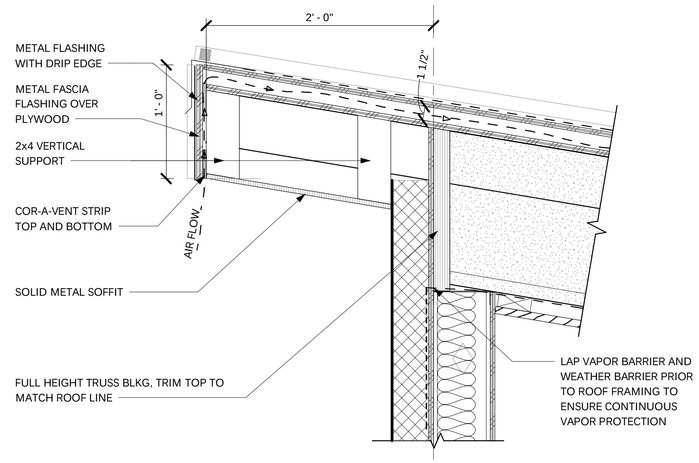
30" x 21" BORDER



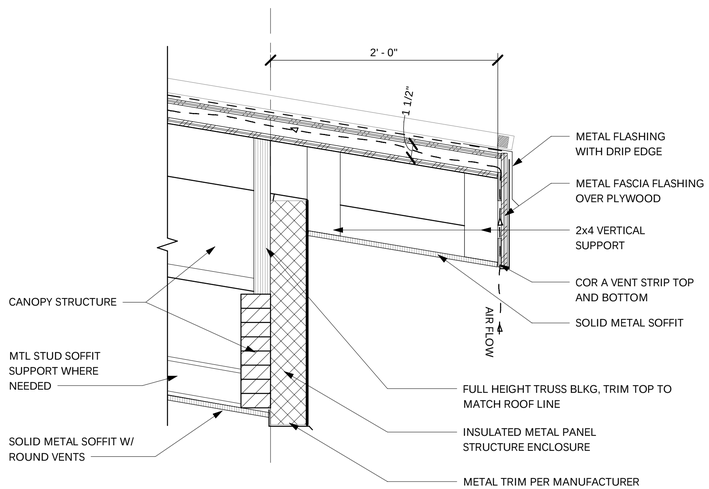
1 A1.1 ROOF PLAN

3/16" = 1'-0"



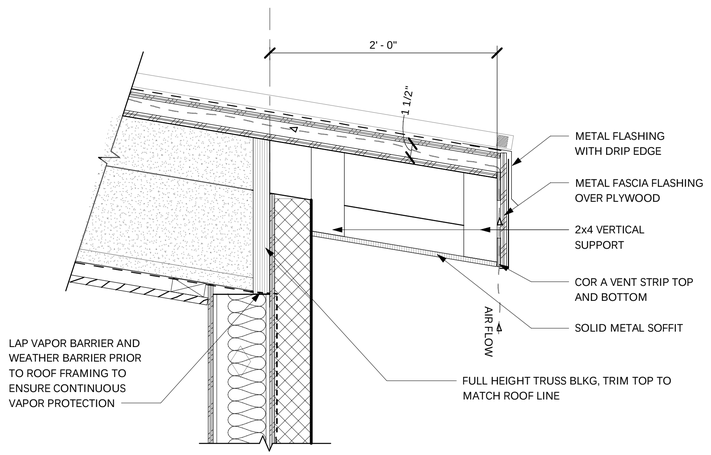
4 A1.1 HIGH EAVE DETAIL

1 1/2" = 1'-0"



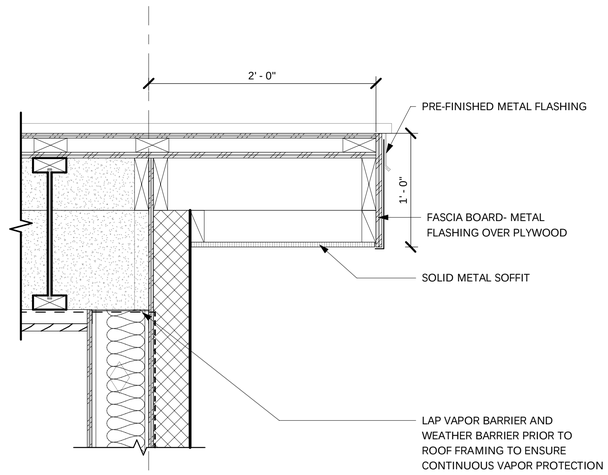
2 A1.1 CANOPY EAVE DETAIL

1 1/2" = 1'-0"



3 A1.1 LOW EAVE DETAIL

1 1/2" = 1'-0"



5 A1.1 RAKE DETAIL

1 1/2" = 1'-0"

100% DRAWING SET

1" ONE INCH

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ROOF PLAN AND ROOF DETAILS

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1" ONE INCH

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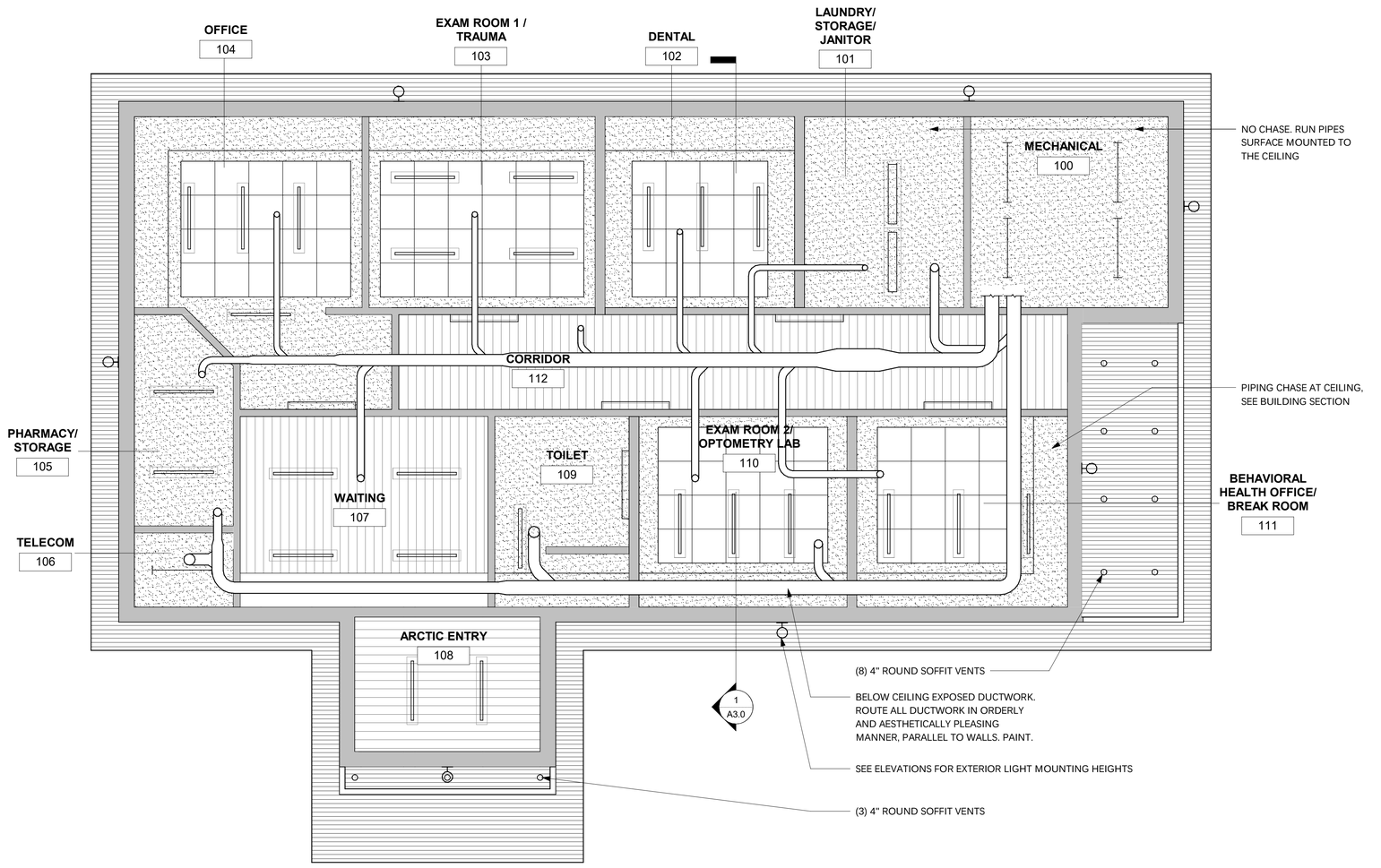

RCP LEGEND

- 3/4" T & G ALASKA YELLOW CEDAR ATTACHED TO UNDERSIDE OF STRUCTURE
- METAL SOFFIT PANEL
- GWB CEILING, PAINTED
- GLUE ON ACOUSTICAL TILE OVER GWB. CENTER CEILING IN EACH ROOM
- LIGHTING FIXTURES (REF. ELECT. DWGS)
- DIFFUSERS (REF. MECH. DWGS)

RCP NOTES

1. REFERENCE ELECTRICAL DRAWINGS FOR ALL SIZE AND TYPES OF LIGHTINGS. COORDINATE WITH ELECTRICAL FOR LOCATION OF LIGHTINGS.

2. REFERENCE MECHANICAL DRAWINGS FOR ALL SIZE AND TYPES OF DIFFUSERS, EXHAUST FANS, COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION OF DIFFUSERS, EXHAUST FANS.

N

1 / A1.2 REFLECTED CEILING PLAN

1/4" = 1'-0"

SIGN SCHEDULE	
ROOM NUMBER	ROOM FUNCTION
100	MECHANICAL
101	LAUNDRY/ STORAGE/ JANITOR
102	DENTAL
103	EXAM ROOM 1 / TRAUMA
104	OFFICE
105	PHARMACY/ STORAGE
106	TELECOM
109	TOILET
110	EXAM ROOM 2/ OPTOMETRY LAB
111	BEHAVIORAL HEALTH OFFICE/ BREAK ROOM

COLOR SCHEDULE

FINISH		COLOR INFORMATION			
MATERIALS	LOCATION	MANUFACTURER	STYLE	COLOR NAME	REMARKS
SHEET VINYL	ENTIRE FACILITY	ARMSTRONG	MEDITONE	GRAYED BLUE MID	*SEE NOTES*
WALK-OFF MAT	ARCTIC ENTRY		REMOVABLE MAT	--	--
RUBBER BASE	*SEE NOTES*	ARMSTRONG		GRAPHITE GRAY	--
WOOD TRIM	ENTIRE FACILITY		--	TO MATCH CEILING	--
SIGNAGE	ENTIRE FACILITY	INPRO CORP	ASPEN STANDARD SIGN	--	--
DOOR/FRAME PAINT	ENTIRE FACILITY	SHERWIN-WILLIAMS	--	--	--
DUCTWORK PAINT	ENTIRE FACILITY	SHERWIN-WILLIAMS	--	--	--
PLASTIC LAMINATE	COUNTER TOPS	FORMICA	FP2510	GOLDEN MORNING OAK	--
PLASTIC LAMINATE	CABINETS	FORMICA	F8822	DENIM	--
SIDING	EXTERIOR	METAL SALES	--	OCEAN BLUE	--
ROOF	EXTERIOR	METAL SALES	--	CHARCOAL	--
BLINDS	ENTIRE FACILITY	LEVELOR	SOLAR SHADES	--	--
RIGID SHEET VINYL	CORRIDOR, WAITING ROOM, ENTRY	INPRO CORP		GALA	

NOTES:
1. COVE BASE IN EXAM ROOM 1, EXAM 2, DENTAL, TOILET. ALL OTHER ROOMS TO RECEIVE RUBBER BASE.

100% DRAWING SET

1" ONE INCH

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REFLECTED CEILING PLAN, COLOR AND SIGN SCHEDULE

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ONE INCH 1"

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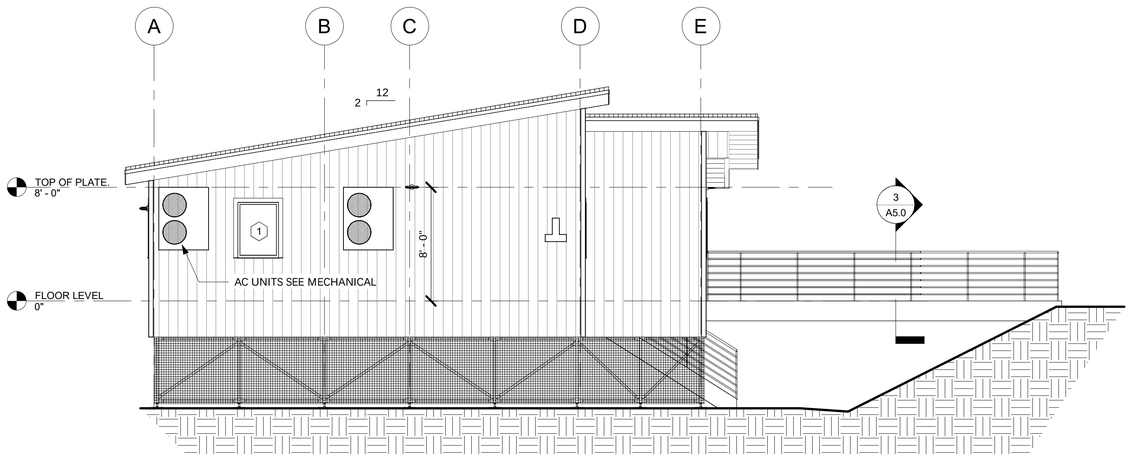
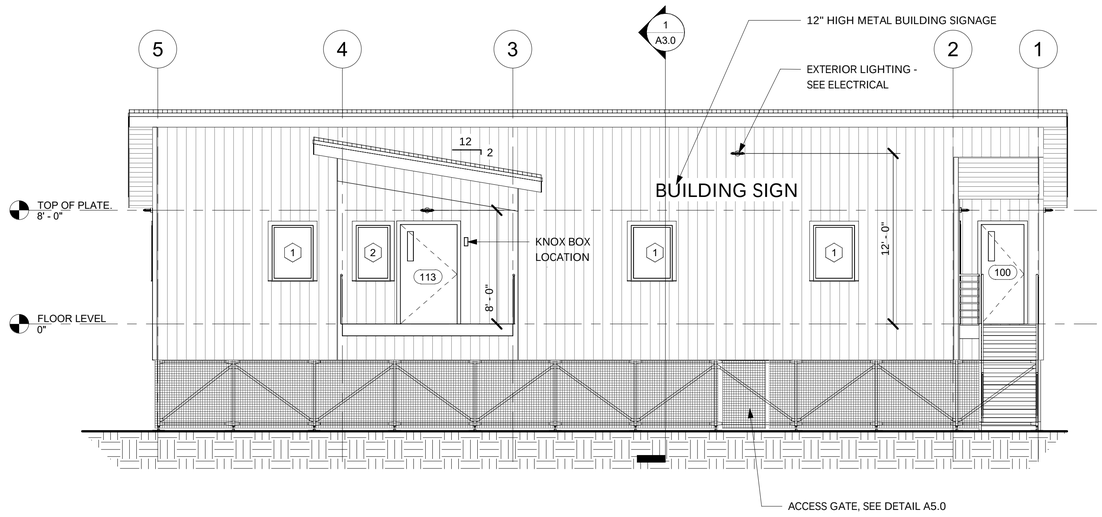
A1.2	OF 8

30" x 21" BORDER



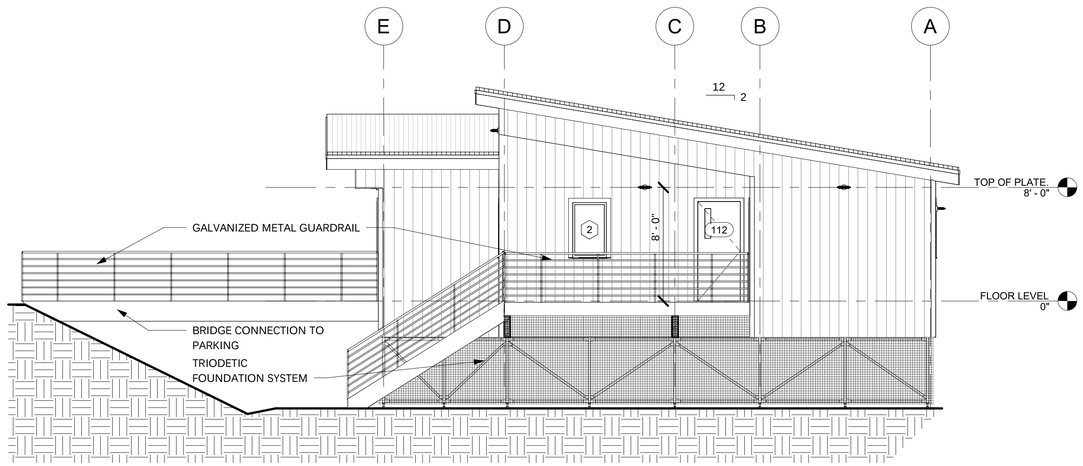
1 A2.0 WEST ELEVATION

3/16" = 1'-0"



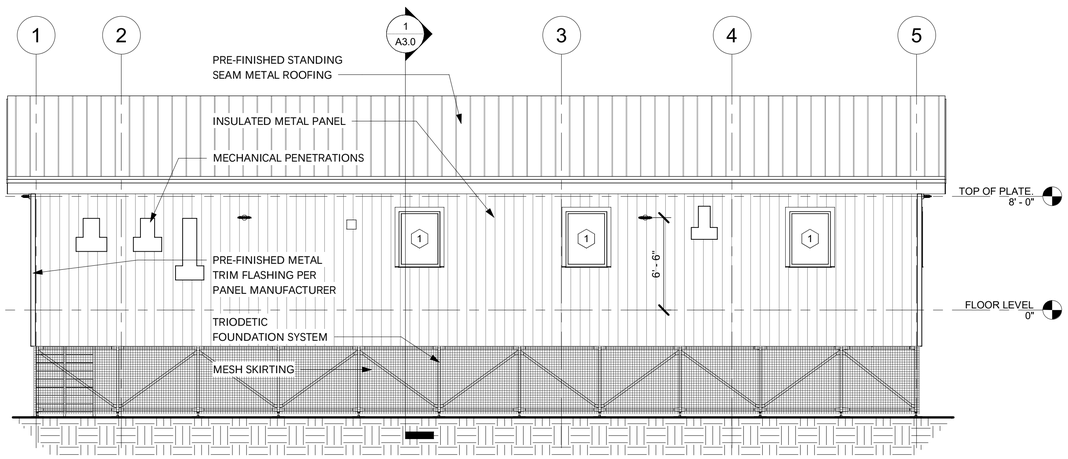
2 A2.0 NORTH ELEVATION

3/16" = 1'-0"



3 A2.0 EAST ELEVATION

3/16" = 1'-0"



4 A2.0 SOUTH ELEVATION

3/16" = 1'-0"

100% DRAWING SET

1" ONE INCH

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EXTERIOR ELEVATIONS

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1" ONE INCH

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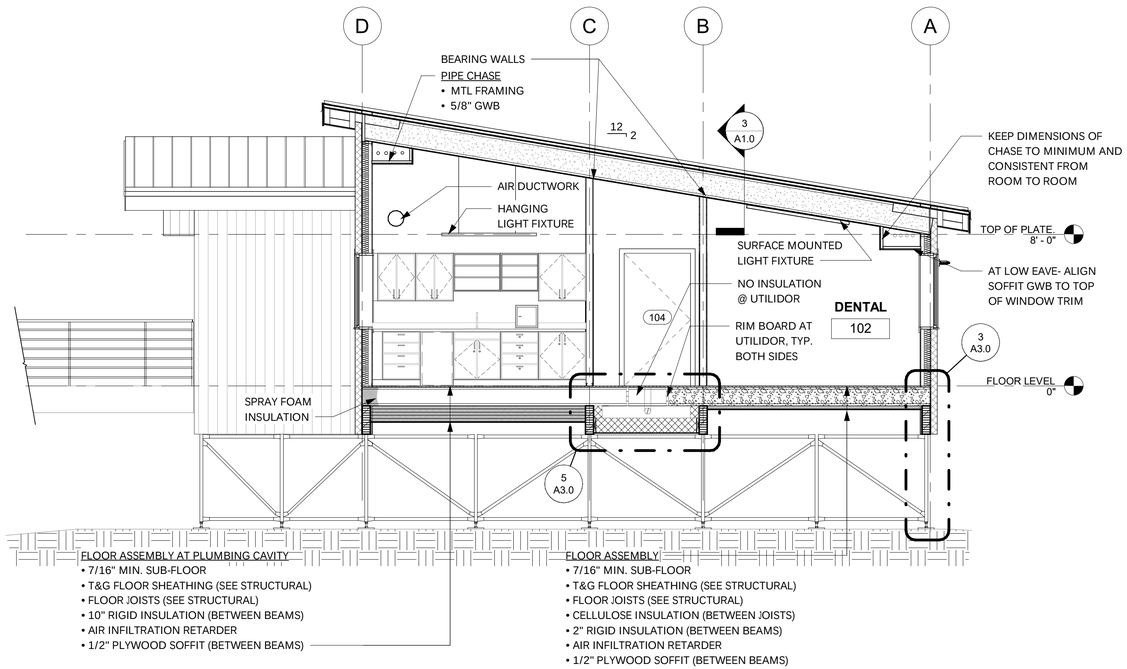
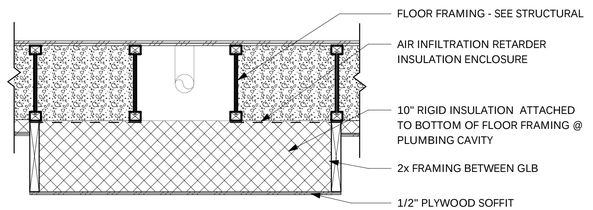
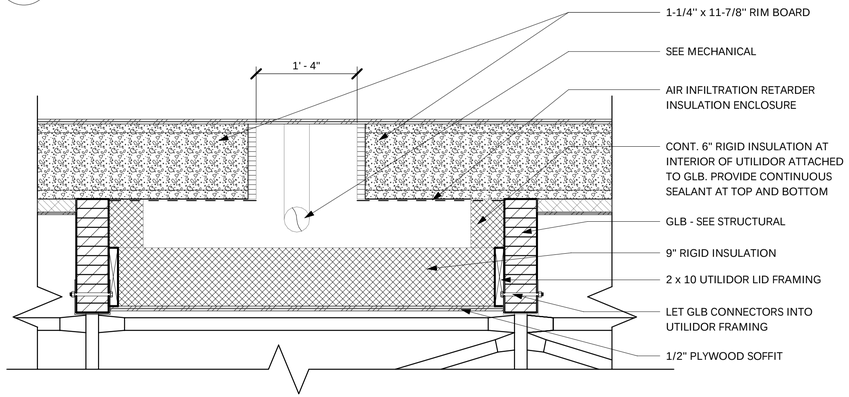


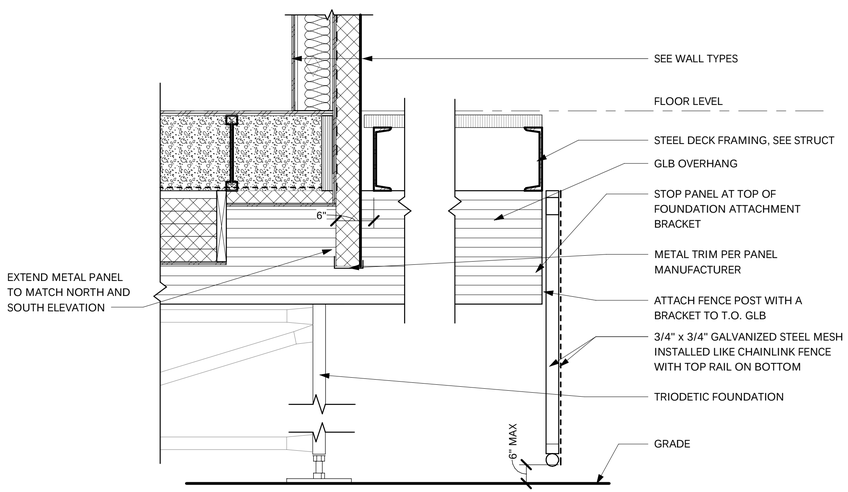
1 A3.0 BUILDING SECTION
1/4" = 1'-0"



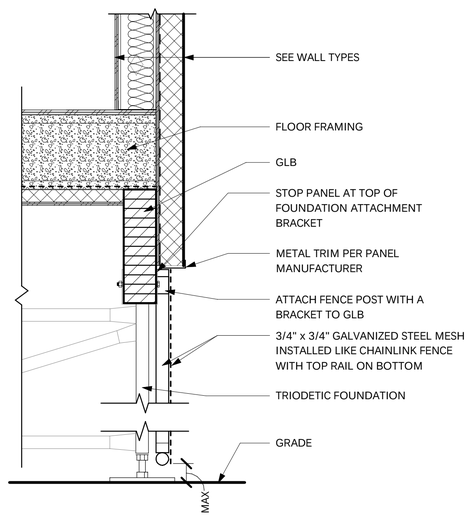
4 A3.0 SECONDARY UTILIDOR DETAIL
1" = 1'-0"



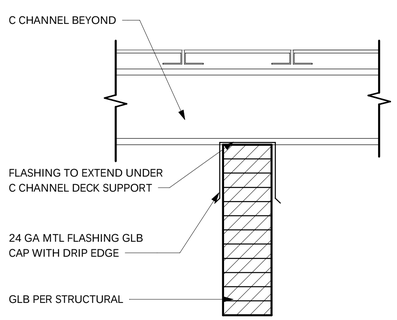
5 A3.0 UTILIDOR DETAIL
1" = 1'-0"



2 A3.0 DECK DETAIL
1" = 1'-0"



3 A3.0 SKIRTING DETAIL
1" = 1'-0"



6 A3.0 GLB CAP DETAIL
1 1/2" = 1'-0"

100% DRAWING SET

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1" ONE INCH

SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

BUILDING SECTION AND DETAILS

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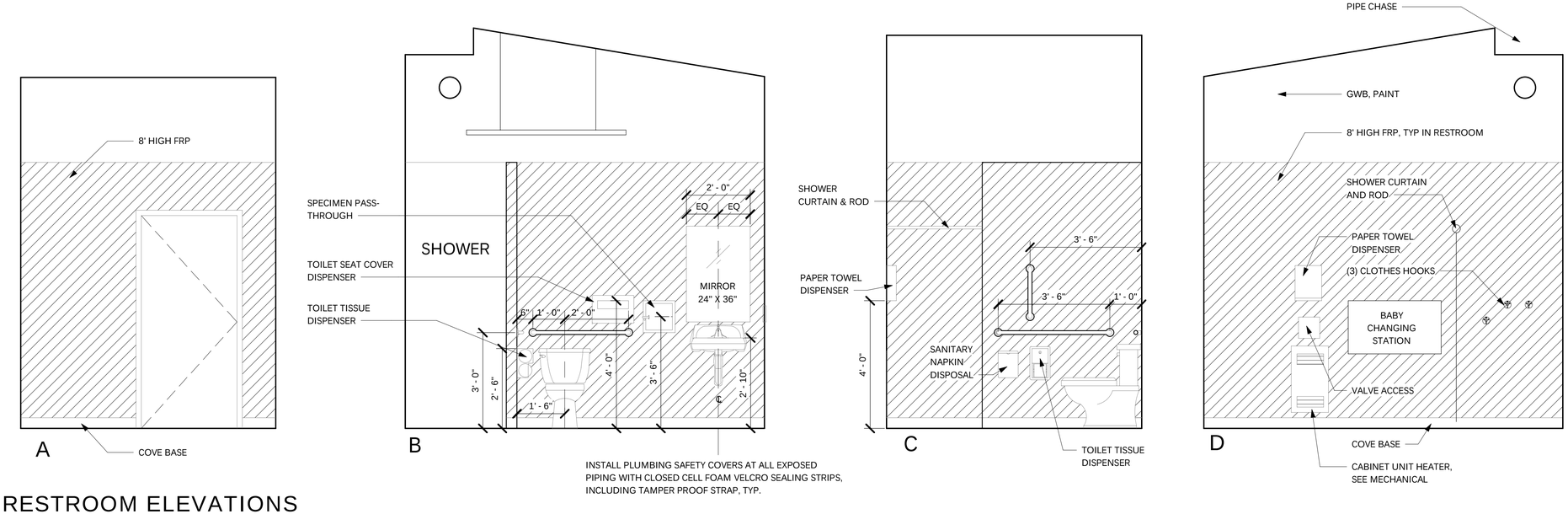
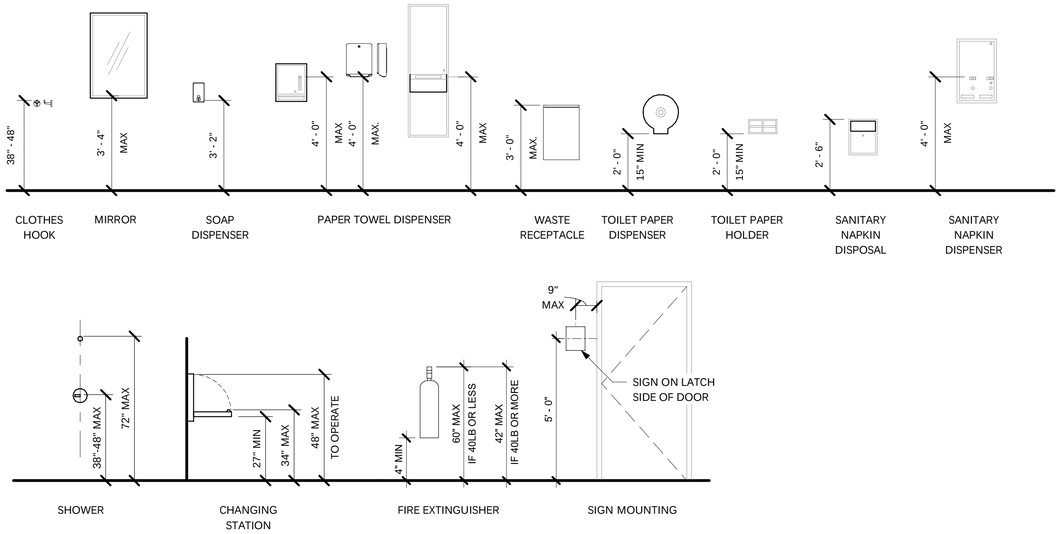
30" x 21" BORDER



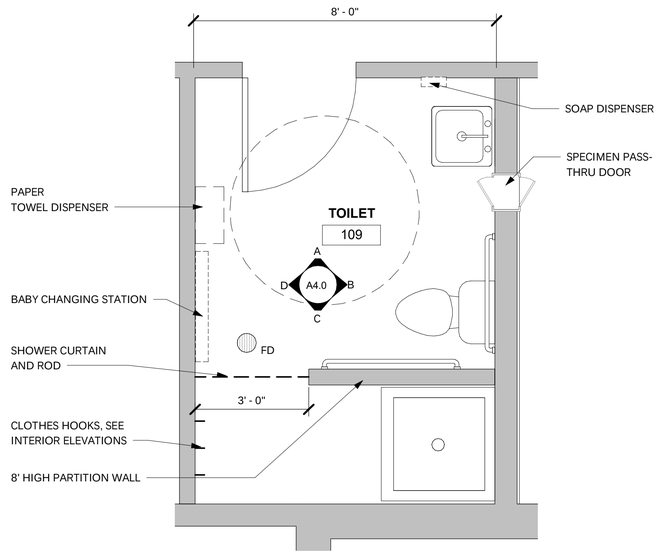
1 A4.0 RESTROOM ELEVATIONS

1/2" = 1'-0"



2 A4.0 TYPICAL MOUNTING HEIGHTS

3/8" = 1'-0"



3 A4.0 ENLARGED RESTROOM

1/2" = 1'-0"

100% DRAWING SET

1" ONE INCH

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ENLARGED RESTROOM PLAN, ELEVATIONS, AND COLOR SCHEDULE

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1" ONE INCH

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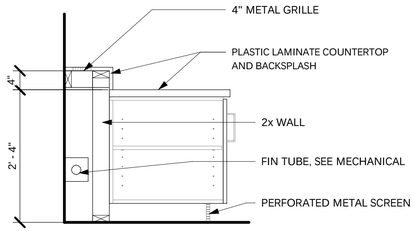
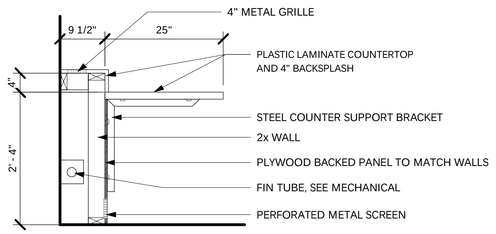
A4.0	OF 8

30" x 21" BORDER



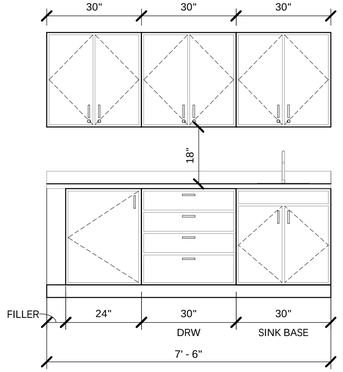
6 A4.1 OFFICE WORKSTATION CASEWORK

3/4" = 1'-0"



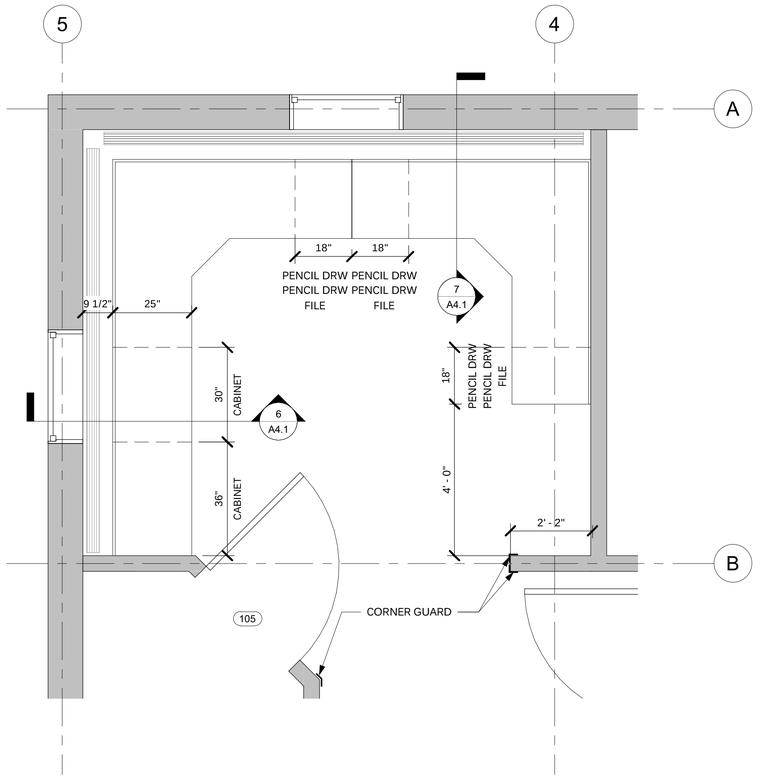
7 A4.1 OFFICE WORKSTATION COUNTER

3/4" = 1'-0"



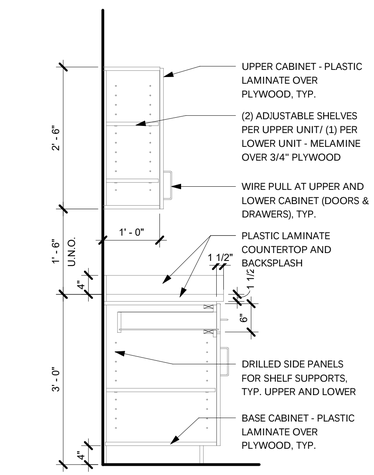
5 A4.1 ROOM 111 CASEWORK

1/2" = 1'-0"



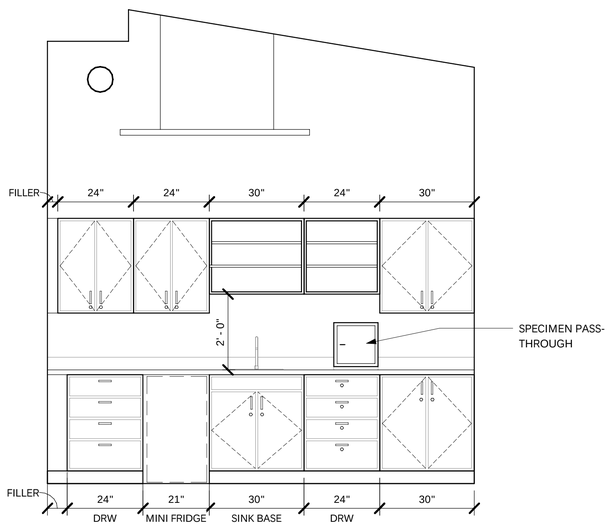
4 A4.1 OFFICE 104 CASEWORK

1/2" = 1'-0"



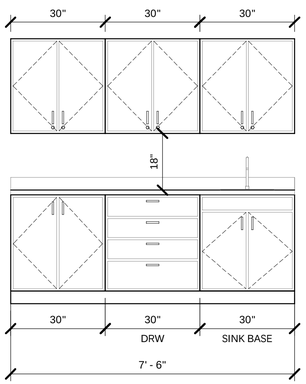
3 A4.1 TYP. CASEWORK SECTION

3/4" = 1'-0"



2 A4.1 EXAM ROOM 2 - 110 CASEWORK

1/2" = 1'-0"



1 A4.1 ROOM 102, 103 CASEWORK

1/2" = 1'-0"

100% DRAWING SET

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC

CASEWORK ELEVATIONS

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1" ONE INCH

SHEET SIZE:	
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
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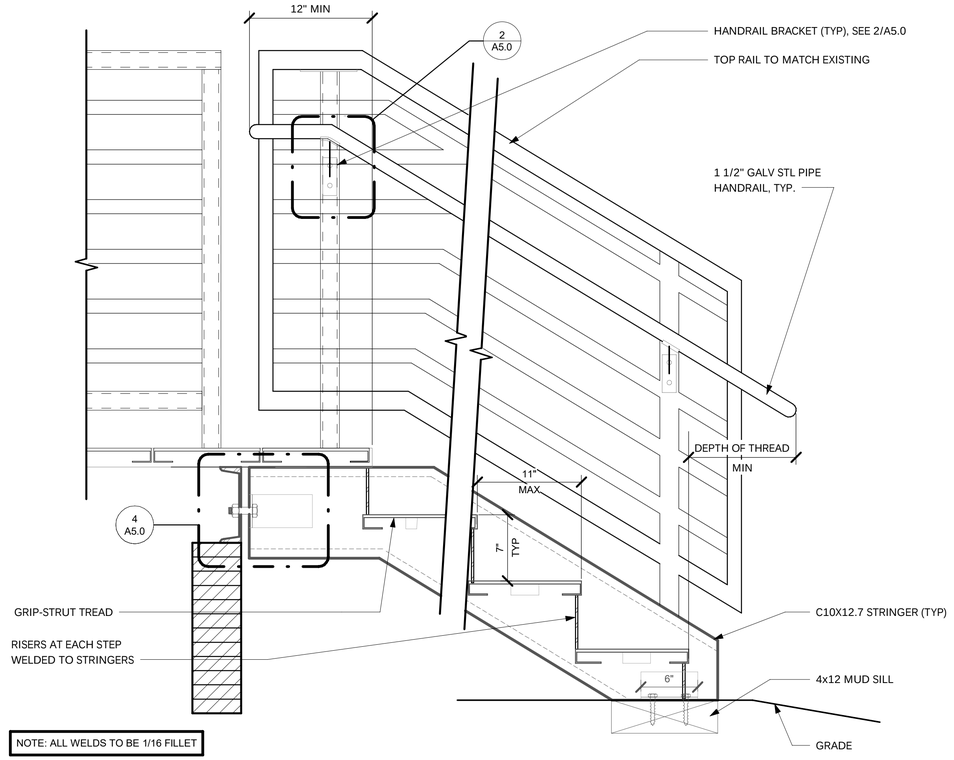
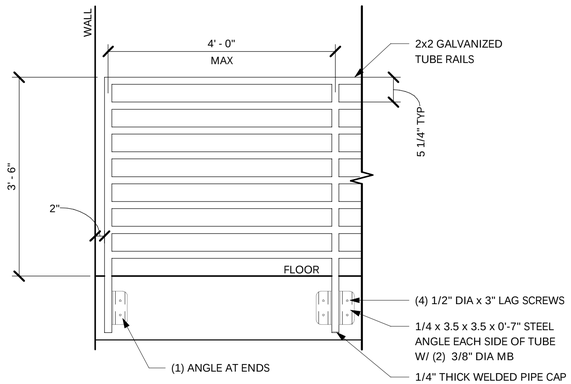
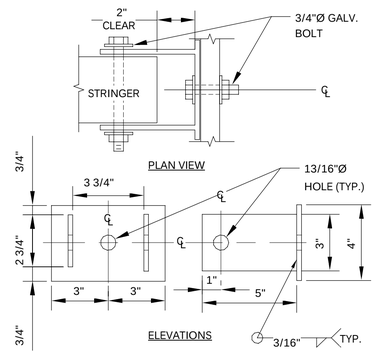
A4.1	OF 8



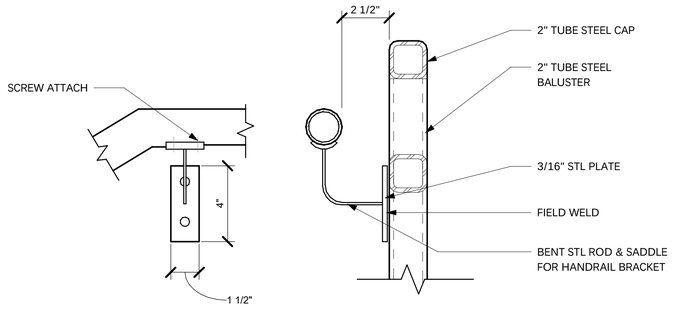
1 TYPICAL STAIR SECTION
A5.0 — 1 1/2" = 1'-0"



3 GUARDRAIL ELEVATION
A5.0 — 3/4" = 1'-0"



4 STAIR HINGE BRACKET DETAIL
A5.0 — 3" = 1'-0"

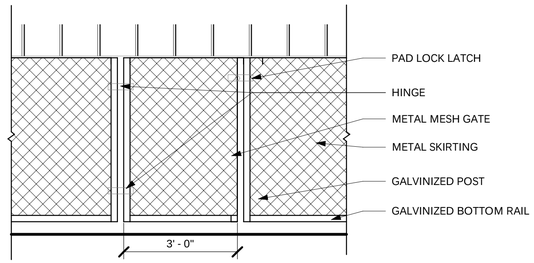


2 HANDRAIL BRACKET
A5.0 — 3" = 1'-0"

AT 90 DEGREE CORNERS

NOTE:
1. CORNER GUARDS TO BE MOUNTED FROM 4" A.F.F. (TOP OF COVE BASE). TOP TO ALIGH WITH TOP OF DOOR FRAMES

5 CORNER GUARD
A5.0 — 6" = 1'-0"



6 GATE AT SKIRTING
A5.0 — 1/2" = 1'-0"

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

MISCELLANEOUS DETAILS

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1" ONE INCH

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A5.0	OF 8

30" x 21" BORDER

DOOR SCHEDULE

#	DOOR SIZE		DOOR			FRAME		HARDWARE							
	WIDTH	HEIGHT	TYPE	MATERIAL	UNDERCUT	TYPE	MATERIAL	LOCKSET	BOLT	HINGE	CLOSER	SEALS	THRESHOLD	STOP	PLATE
100	3' - 0"	7' - 0"	FL	INS. H.M.		TF	INS. HM.	L2	DEAD	H1		G1, G2, G3	T1	S4	
101	3' - 0"	7' - 0"	FL	S.C. WOOD	1"	D.R.	HM	L5		H4		G1	T2	S4	K2
102	3' - 0"	7' - 0"	FL	S.C. WOOD		D.R.	HM	L3		H3		G4		S3	K1
103	4' - 0"	7' - 0"	FL	S.C. WOOD		D.R.	HM	L3		H3		G4		S4	K3, K4
104	3' - 6"	7' - 0"	NL	S.C. WOOD		D.R.	HM	L3		H3		G4		S3	K2
105	3' - 6"	7' - 0"	FL	S.C. WOOD		D.R.	HM	L4		H3		G3		S4	K2
106	3' - 0"	7' - 0"	FL	S.C. WOOD	1"	D.R.	HM	L4		H3		G3		S4	K2
107	4' - 0"	7' - 0"	NL	S.C. WOOD		D.R.	HM	L3		H3	C1	G4		S2	K2
108	4' - 0"	7' - 0"	NL	INS. H.M.		D.R.	HM	L1	DEAD	H2	C2	G3	T2	S4	K2
109	3' - 0"	7' - 0"	FL	S.C. WOOD	1"	D.R.	HM	L6	DEAD	H4		G3		S3	K2
110	3' - 0"	7' - 0"	FL	S.C. WOOD		D.R.	HM	L3		H3		G4		S3	K2
111	3' - 0"	7' - 0"	FL	S.C. WOOD		D.R.	HM	L3		H3		G4		S3	K2
112	3' - 0"	7' - 0"	NL	INS. H.M.		TF	INS. HM.	L1	DEAD	H1	C2	G1, G2, G3	T1	S1, S5	K1
113	4' - 0"	7' - 0"	NL	INS. H.M.		TF	INS. HM.	L1	DEAD	H1	C2	G1, G2, G3	T1	S1, S5	K1

LOCKSETS1

KEY	MANUFACTURER	PRODUCT	FUNCTION	FINISH
L1	SARGENT	8904	EXIT DEVICE (RETRATCH LATCHBOLT)	630
L2	SCHLAGE	L9453	ENTRANCE LOCK WITH DEADBOLT	630
L3	SCHLAGE	L9050	OFFICE WITH INNER ENTRY LOCK	626
L4	SCHLAGE	L9080	STOREROOM LOCK	626
L5	SCHLAGE	L9080	STOREROOM LOCK	630
L6	SCHLAGE	L9010 & L496	PASSAGE LOCK WITH OCCUPANCY INDICATOR DEADLOCK	630

CLOSERS

KEY	MOUNTING	CYLINDER	ARM	COVER	FINISH
C1	TOP JAMB	HEAVY DUTY	HEAVY DUTY PARALLEL	METAL	626
C2	TOP JAMB	HEAVY DUTY	HEAVY DUTY PARALLEL W/ CONCEALED STOP	METAL	626

HINGES1

KEY	WEIGHT	CONFIGURATION	MOUNTING	SIZE	FINISH
H1	HEAVY	FIVE-KNUCKLE BEARING	FULL MORTISE	5 x 4.5	630
H2	HEAVY	FIVE-KNUCKLE BEARING	FULL MORTISE	5 x 4.5	626
H3	STANDARD	FIVE-KNUCKLE BEARING	FULL MORTISE	4.5 x 4.5	626
H4	STANDARD	FIVE-KNUCKLE BEARING	FULL MORTISE	4.5 x 4.5	630

SEALS & GASKETS

KEY	MANUFACTURER	PRODUCT	LOCATION
G1	PEMKO	18175DNB	BOTTOM
G2	PEMKO	290DS	JAMB
G3	PEMKO	2891DS	HEAD
G4	PEMKO	S88	FRAME
G5	ROCKWOOD	608-RKW	FRAME

DOOR STOPS

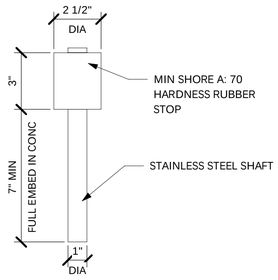
KEY	MANUFACTURER	PRODUCT	FINISH
S1	SARGENT	690S	626
S2	ROCKWOOD	490	626
S3	ROCKWOOD	430-RKW	626
S4	ROCKWOOD	445	626
S5	ROCKWOOD	468-RKW	630

DOOR PLATES

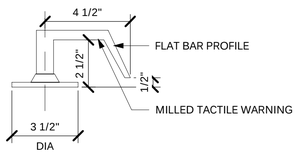
KEY	MANUFACTURER	PRODUCT	SIZE	FINISH	LOCATION
K1	ROCKWOOD	K1050	KICK PLATE	630	PUSH
K2	ROCKWOOD	K1050	KICK PLATE	630	BOTH
K3	ROCKWOOD	K1050	KICK PLATE	630	PULL
K4	ROCKWOOD	K1050	ARMOR PLATE	630	PUSH

THRESHOLDS

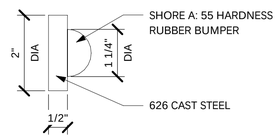
KEY	MANUFACTURER	PRODUCT
T1	PEMKO	273X_DFG
T2	PEMKO	271_D



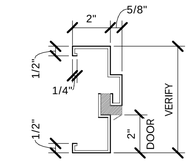
6 A6.0 EXTERIOR DOOR STOP
3" = 1'-0"



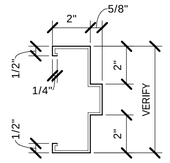
5 A6.0 DOOR LEVER
3" = 1'-0"



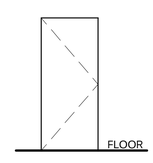
4 A6.0 WALL DOOR STOP
6" = 1'-0"



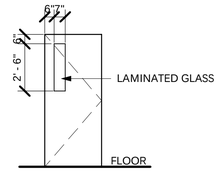
TF THERMAL FRAME



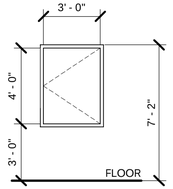
DR DOUBLE RABBET



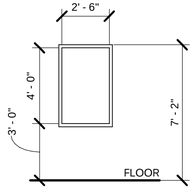
FL FLUSH PANEL



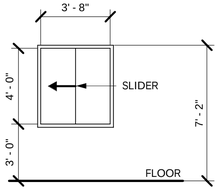
NL NARROW LITE



1 CASEMENT



2 FIXED



3 PASS THROUGH

WINDOWS NOTES:
1. PROVIDE INSECT SCREENS AT ALL OPERABLE WINDOWS.
2. PROVIDE BLINDS FOR ALL EXTERIOR WINDOWS

100% DRAWING SET

1" ONE INCH

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1" ONE INCH

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

DOOR & WINDOW TYPES, DOOR HARDWARE

SHEET SIZE:	
DESIGNED BY:	WHS
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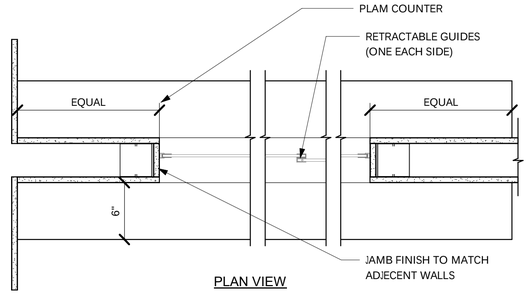
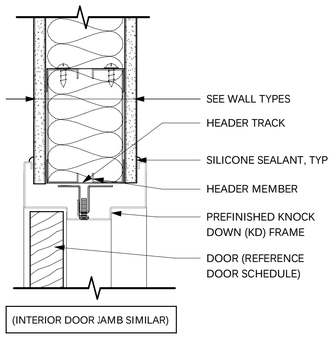
A6.0	OF 8

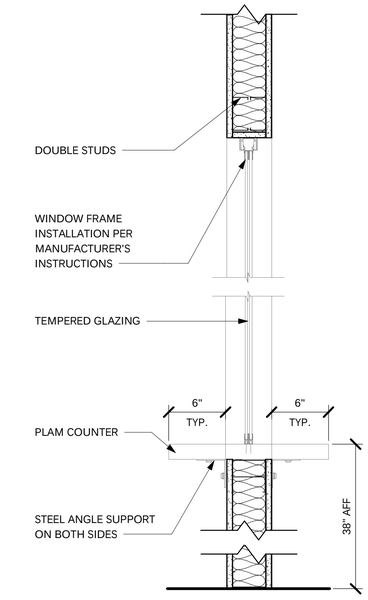
30" x 21" BORDER



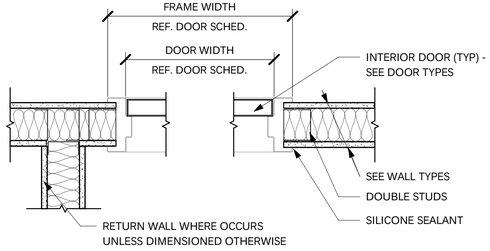
PLAN VIEW



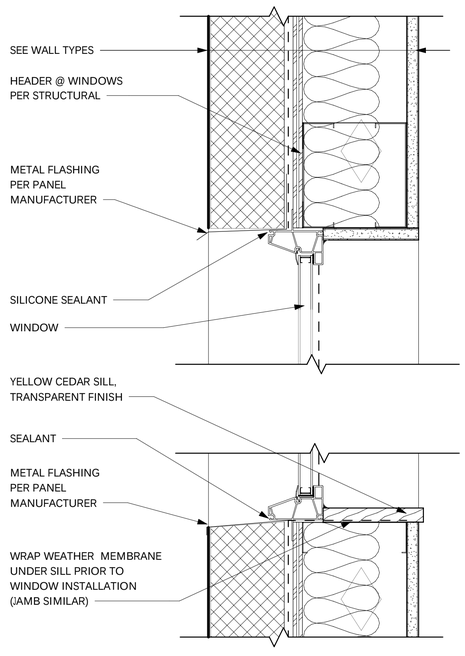
5 A6.1 INTERIOR DOOR HEAD
3" = 1'-0"



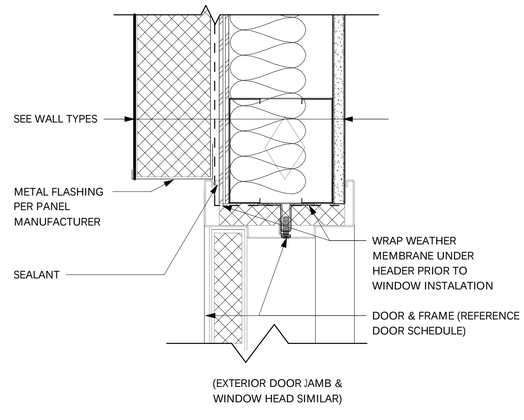
6 A6.1 RECEPTION WINDOW COUNTER
1 1/2" = 1'-0"



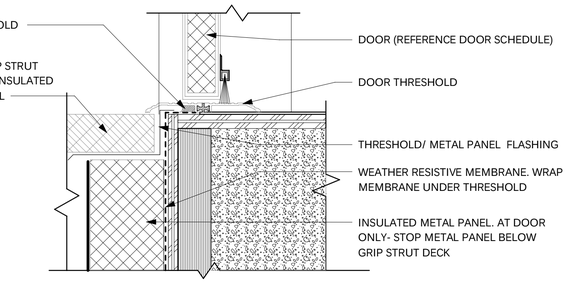
4 A6.1 INTERIOR DOOR JAMB DETAIL
1 1/2" = 1'-0"



2 A6.1 EXTERIOR WINDOW HEAD/SILL
3" = 1'-0"



3 A6.1 EXT. DOOR HEAD - JAMB SIMILAR
3" = 1'-0"



1 A6.1 EXTERIOR DOOR THRESHOLD
3" = 1'-0"

100% DRAWING SET

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

DOOR & WINDOW DETAILS

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1" ONE INCH

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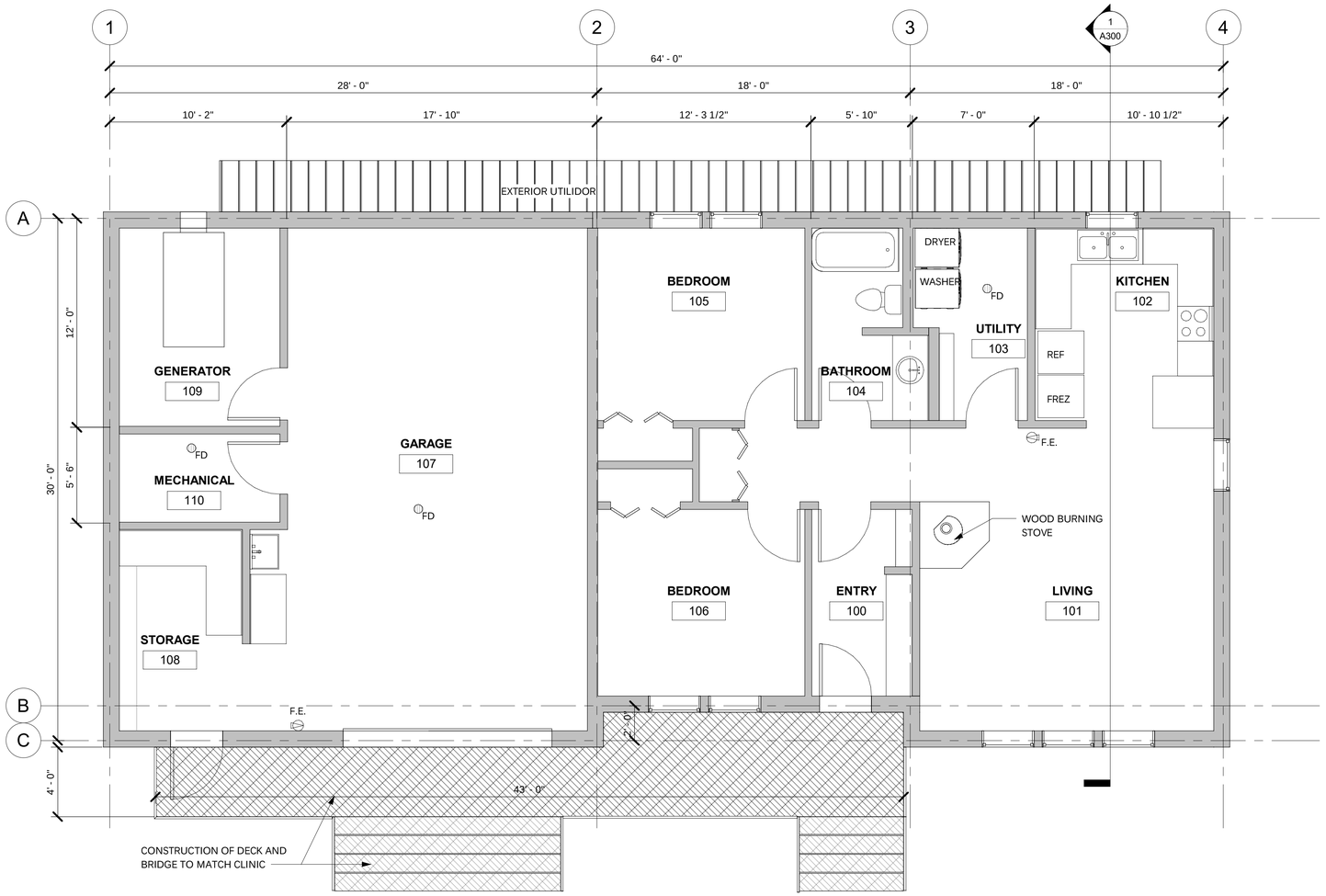
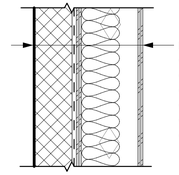
A6.1	OF 8

30" x 21" BORDER



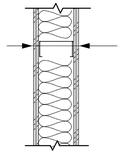
1 FLOOR PLAN
A100 — 1/4" = 1'-0"

N



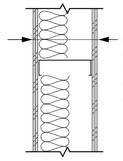
EXTERIOR TO INTERIOR:
- INSULATED METAL PANEL (R-32)
- WEATHER RESISTIVE MEMBRANE
- STRUCTURAL SHEATHING
- 6" METAL STUD
- 3 1/2" FIBERGLASS BAT INSULATION (R-15)
- PLYWOOD BACKED PANEL

V1 EXTERIOR WALL



(LEFT TO RIGHT)
- PLYWOOD BACKED PANEL
- 4" METAL STUD @ 16" O.C.
- ACOUSTICAL BATT INSULATION
- PLYWOOD BACKED PANEL

V2 INTERIOR WALL

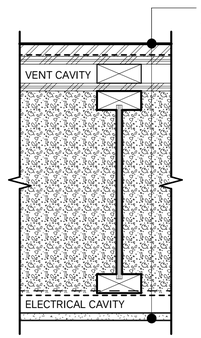


(LEFT TO RIGHT)
- PLYWOOD BACKED PANEL
- 6" METAL STUDS @ 16" O.C.
- ACOUSTICAL BATT INSULATION
- PLYWOOD BACKED PANEL

V3 INTERIOR PLUMBING WALL

1. PROVIDE ACOUSTICAL SEALANT AT ALL EDGES AND PENETRATIONS THROUGH ACOUSTICAL WALLS.
2. ALL WALLS ARE TO EXTEND TO ROOF FRAMING.

2 VERTICAL ASSEMBLIES
A100 — 1 1/2" = 1'-0"



ROOF ASSEMBLY
- PREFINISHED METAL ROOFING
- ICE & WATER SHIELD (OVER ENTIRE ROOF)
- 5/8" CDX PLYWOOD SHEATHING
- 2x4 RUNNERS IN LINE WITH JOIST CHORD
- STRUCTURAL SHEATHING
- PREMANUFACTURED ROOF JOISTS W/
- 16" DENSE-PACK FIBERGLASS INSULATION [R68]
- INSULATION FABRIC
- VAPOR RETARDER
- 2x4 RUNNERS @ 24" PERPENDICULAR TO JOISTS
- 5/8" TYPE 'X' GWB, PAINTED

3 ROOF ASSEMBLY
A100

SCHEMATIC DESIGN

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HOUSE
TAKOTNA, AK

HOUSE FLOOR PLAN AND ASSEMBLIES

SHEET SIZE:	
DESIGNED BY:	WHS
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A100	OF 4

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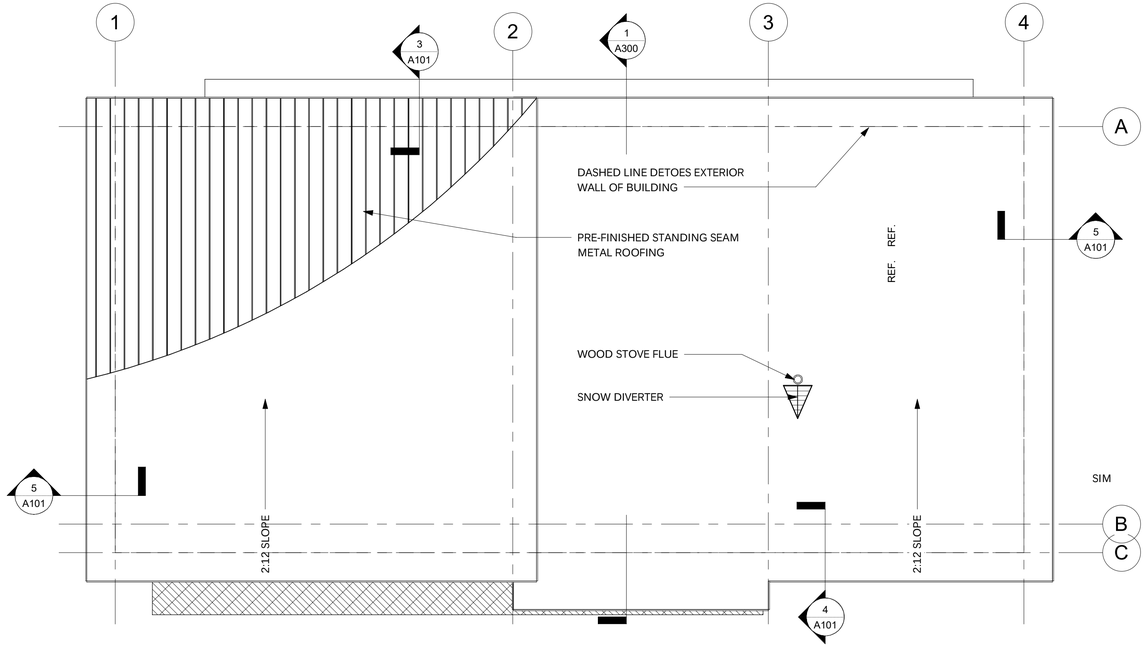
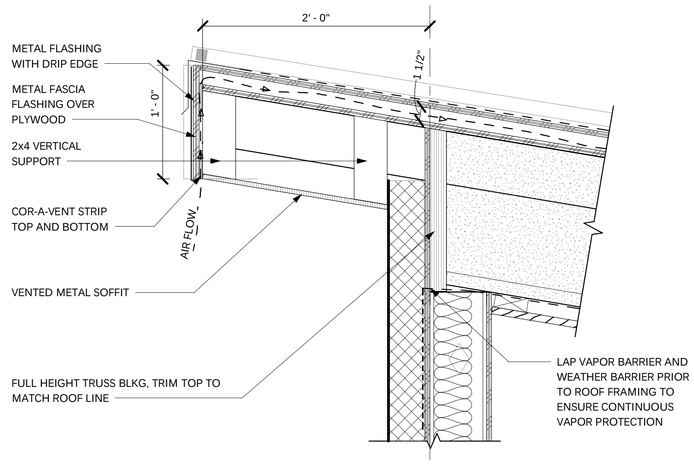
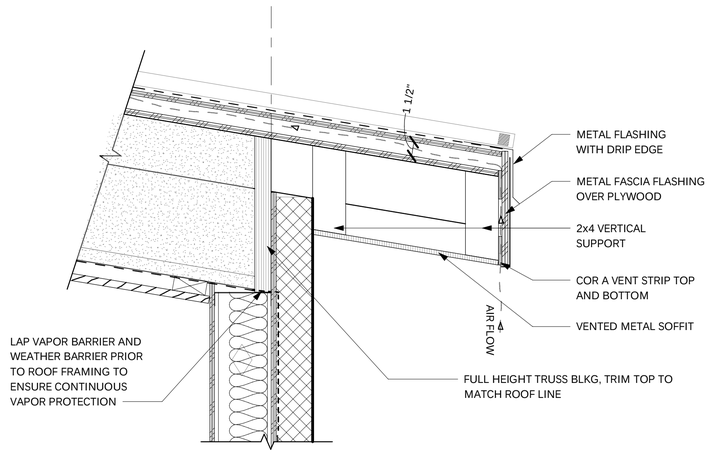
1" ONE INCH



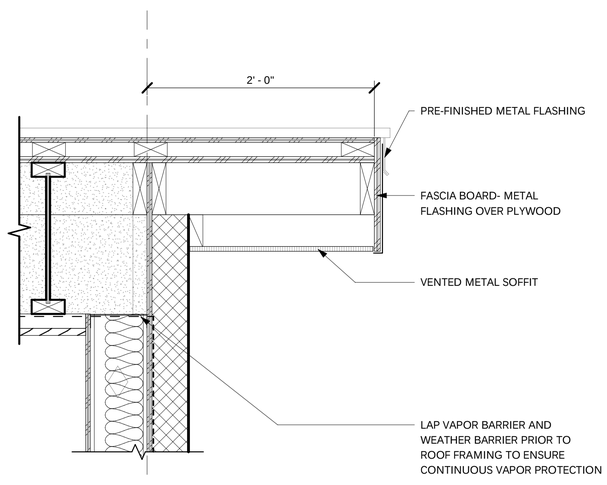
1 A101 ROOF PLAN
3/16" = 1'-0"



4 A101 HIGH EAVE DETAIL
1 1/2" = 1'-0"



3 A101 LOW EAVE DETAIL
1 1/2" = 1'-0"



5 A101 RAKE DETAIL
1 1/2" = 1'-0"

SCHEMATIC DESIGN

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HOUSE
TAKOTNA, AK

HOUSE ROOF PLAN AND ROOF DETAILS

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1" ONE INCH

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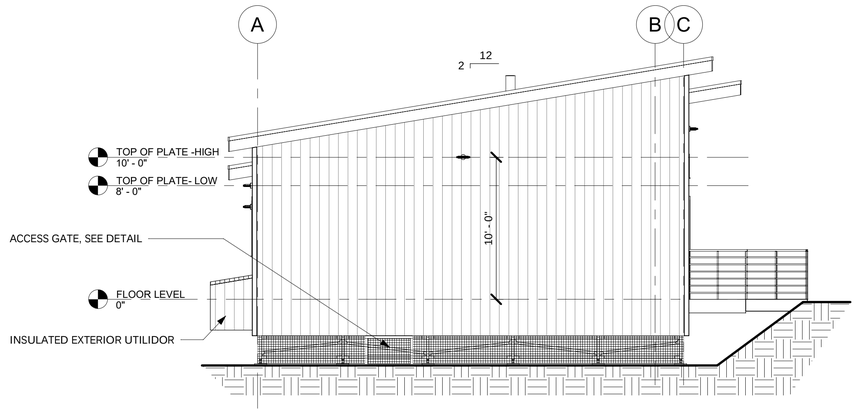
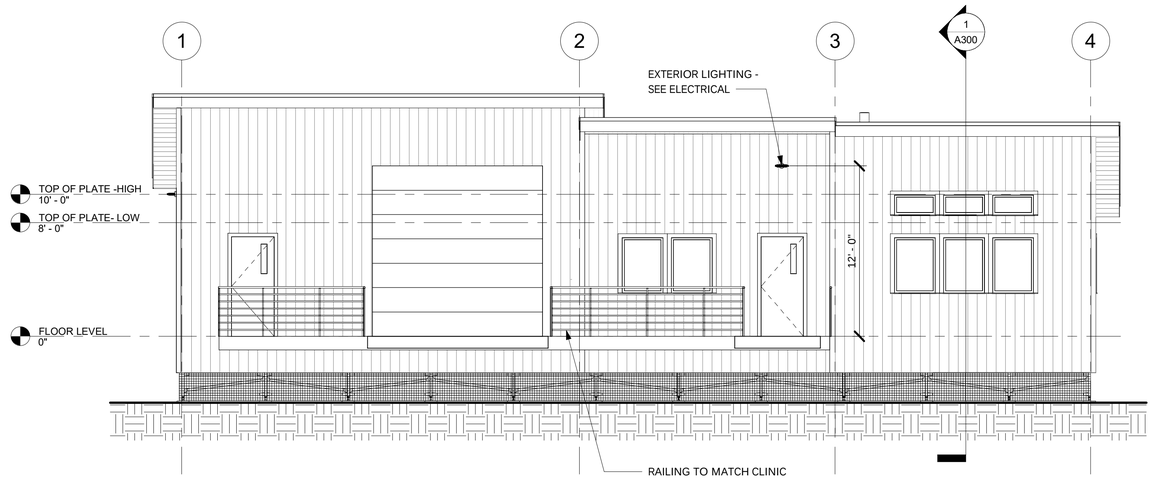
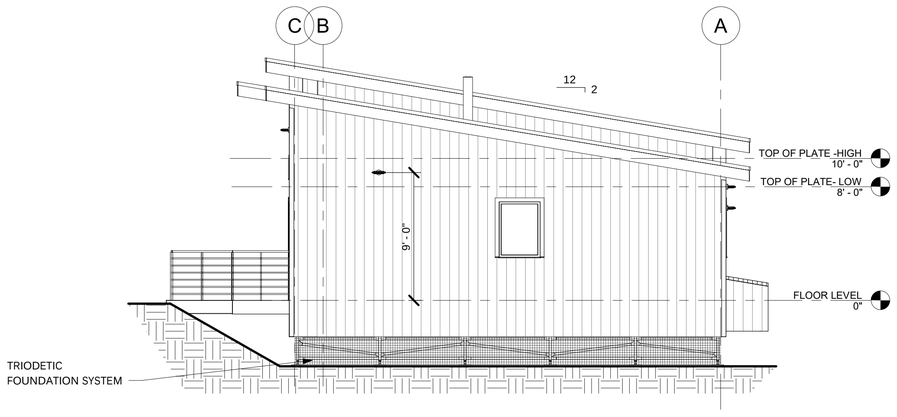
A101	OF 4



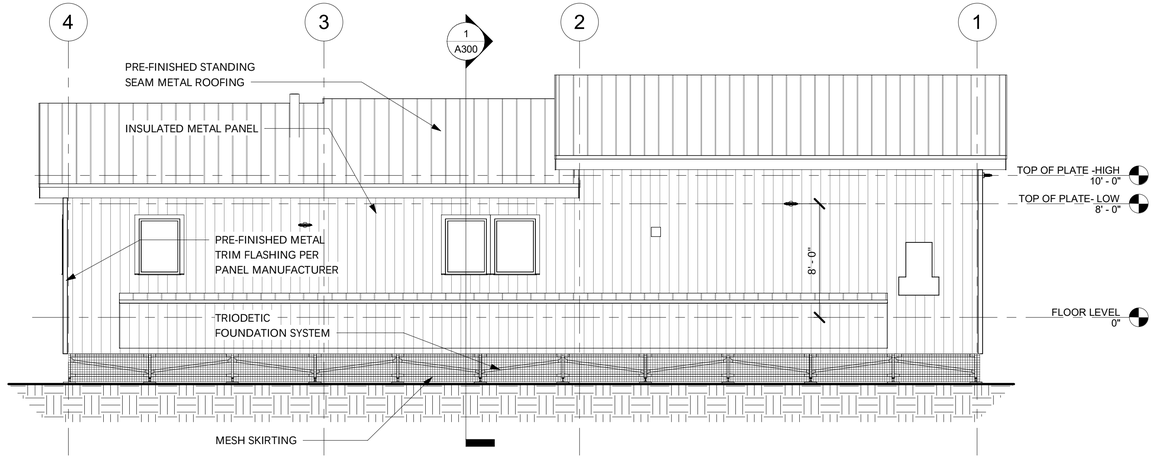
1 SOUTH ELEVATION
A200 — 3/16" = 1'-0"



2 EAST ELEVATION
A200 — 3/16" = 1'-0"



3 NORTH ELEVATION
A200 — 3/16" = 1'-0"



4 WEST ELEVATION
A200 — 3/16" = 1'-0"

SCHEMATIC DESIGN

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HOUSE
TAKOTNA, AK

HOUSE EXTERIOR ELEVATIONS

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1" ONE INCH

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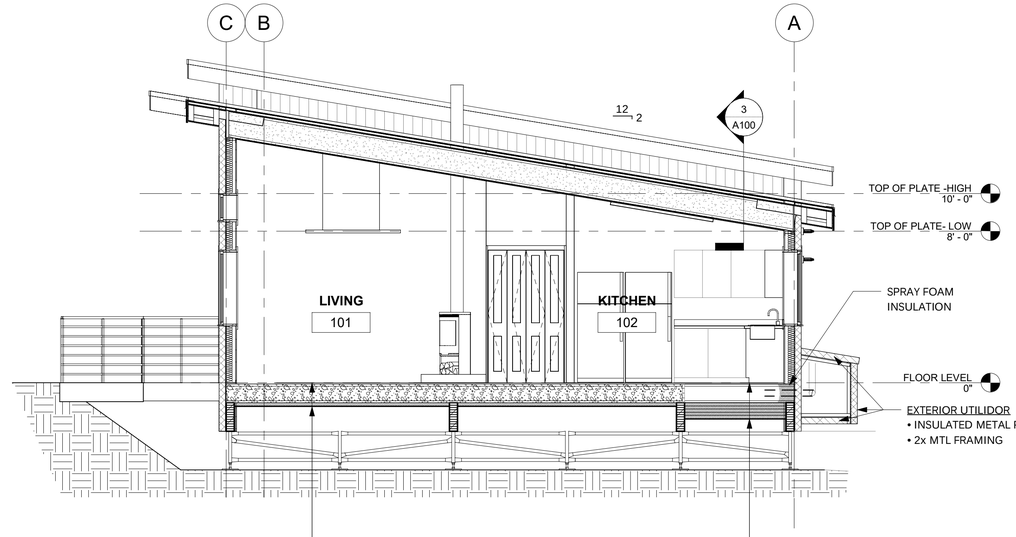
A200	OF 4

30" x 21" BORDER



FLOOR ASSEMBLY
- 7/16" MIN. SUB-FLOOR
- T&G FLOOR SHEATHING (SEE STRUCTURAL)
- FLOOR JOISTS (SEE STRUCTURAL)
- CELLULOSE INSULATION (BETWEEN JOISTS)
- 2" RIGID INSULATION (BETWEEN BEAMS)
- AIR INFILTRATION RETARDER
- 1/2" PLYWOOD SOFFIT (BETWEEN BEAMS)

FLOOR ASSEMBLY AT PLUMBING CAVITY
- 7/16" MIN. SUB-FLOOR
- T&G FLOOR SHEATHING (SEE STRUCTURAL)
- FLOOR JOISTS (SEE STRUCTURAL)
- 10" RIGID INSULATION (BETWEEN BEAMS)
- AIR INFLITRATION RETARDER
- 1/2" PLYWOOD SOFFIT (BETWEEN BEAMS)

1 / A300 BUILDING SECTION
1/4" = 1'-0"

SCHEMATIC DESIGN

1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HOUSE
TAKOTNA, AK

HOUSE BUILDING SECTION

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1" ONE INCH

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A300	OF 4

30" x 21" BORDER

STRUCTURAL NOTES

1. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE STABILITY OF THIS STRUCTURE DEPENDS ON THE DIAPHRAGM AND BRACING MEMBERS SHOWN. THE CONTRACTOR IS TO PROVIDE FOR THE DESIGN AND CONSTRUCTION OF SHORING FOR ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, SEISMIC, AND CONSTRUCTION LOADS. SHORING SHALL REMAIN IN PLACE UNTIL ALL DIAPHRAGM AND LATERAL RESISTING ELEMENTS ARE IN PLACE IN THEIR ENTIRETY.

2. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL, PLUMBING OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

3. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF FULL SIZED PDF FILES. THE PURPOSE OF SHOP DRAWINGS SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT HE UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIALS HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO STRUCTURAL STEEL, REINFORCED STEEL, PRE-FABRICATED WALL PANELS. PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE". SHOP DRAWINGS SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS. ANY DETAIL ON THE SHOP DRAWING THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE". SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.

4. SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT BY CHAPTER 17 OF THE IBC SHALL BE PROVIDED DURING CONSTRUCTION. THE ENGINEER OF RECORD OR OTHER LICENSED AND CERTIFIED INDIVIDUALS SHALL BE RETAINED FOR THESE INSPECTIONS AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE ANCHORAGE MUNICIPAL CODES.
   - A. SOILS (IBC TABLE 1705.6):

EXCAVATION LOCATIONS AND PLACEMENT	(PERIODIC)
FILL MATERIAL CLASSIFICATION	(PERIODIC)
SUBGRADE PREPARATION	(PERIODIC)
COMPACTION TESTS	(CONTINUOUS)
LIFT THICKNESSES	(CONTINUOUS)

   - B. STRUCTURAL WOOD (IBC 1705.10.1 & 1705.11.2):

HOLDOWNS, HANGERS, BLOCKING	(PERIODIC)
DIAPHRAGM THICKNESS AND FASTENING	(CONTINUOUS)
SHEARWALL THICKNESS AND FASTENING	(CONTINUOUS)

5. DEFERRED SUBMITTAL ITEMS ARE THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF APPLICATION AND HAVE RECEIVED PRIOR APPROVAL FROM THE BUILDING OFFICIAL TO BE DEFERRED. DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL PRIOR TO INSTALLATION. THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS:
   - A. TRIODETIC FOUNDATION
   - B. PLYWOOD WEB JOISTS
   - C. LAMINATED VENEER LUMBER
   - D. MANUFACTURED GLU-LAMINATED BEAMS

STRUCTURAL DESIGN CRITERIA

CODES AND STANDARDS PER INTERNATIONAL BUILDING CODE (IBC) 2012 IN ADDITION TO DEAD LOADS, THE FOLLOWING MINIMUM LIVE LOADS APPLY TO THE CONSTRUCTION OF ALL BUILDINGS AND FACILITIES SHOWN UNLESS OTHER- WISE NOTED.

OCCUPANCY CATEGORY:	III
FLOOR LOADINGS:	50psf OFFICE 15psf PARTITION 100psf EXITING
ROOF LIVE LOAD:	70psf SNOW
SEISMIC LOADS:	
SEISMIC DESIGN GROUP	"D"
IMPORTANCE FACTOR	1.25
SPECTRAL RESPONSE COEF	Sds = 0.48
SITE CLASS	"D"
BASIC FORCE SYSTEM	COLD-FORMED STEEL R = 6.5

WIND LOADS:	
BASIC WIND SPEED	120 MPH, 3 SECOND GUST
IMPORTANCE FACTOR	1.0
EXPOSURE	"B"
HORIZONTAL DISTANCE "a"	3.0 feet
C&C (20sf)	FIGURE 30.5-1 (ASCE 7-10)
ZONE 1	13.6psf, -23.0psf
ZONE 2	13.6psf, -38.0psf
ZONE 3	13.6psf, -57.1psf
ZONE 4	24.7psf, -26.9psf
ZONE 5	24.7psf, -32.4psf
OH ZONE 2	-48.5psf
OH ZONE 3	-73.5psf
DESIGN BASE SHEAR	18.0 Kips (WIND-TRANSVERSE) 11.0 Kips (WIND-LONGITUDINAL) 10.1 Kips (SEISMIC)

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STATE OF ALASKA 49 TH
DALE L. MCCOY
CE 13357
08/07/2020
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

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TAKOTNA HEALTH CLINIC
TAKOTNA, AK

DESIGN CRITERIA AND NOTES

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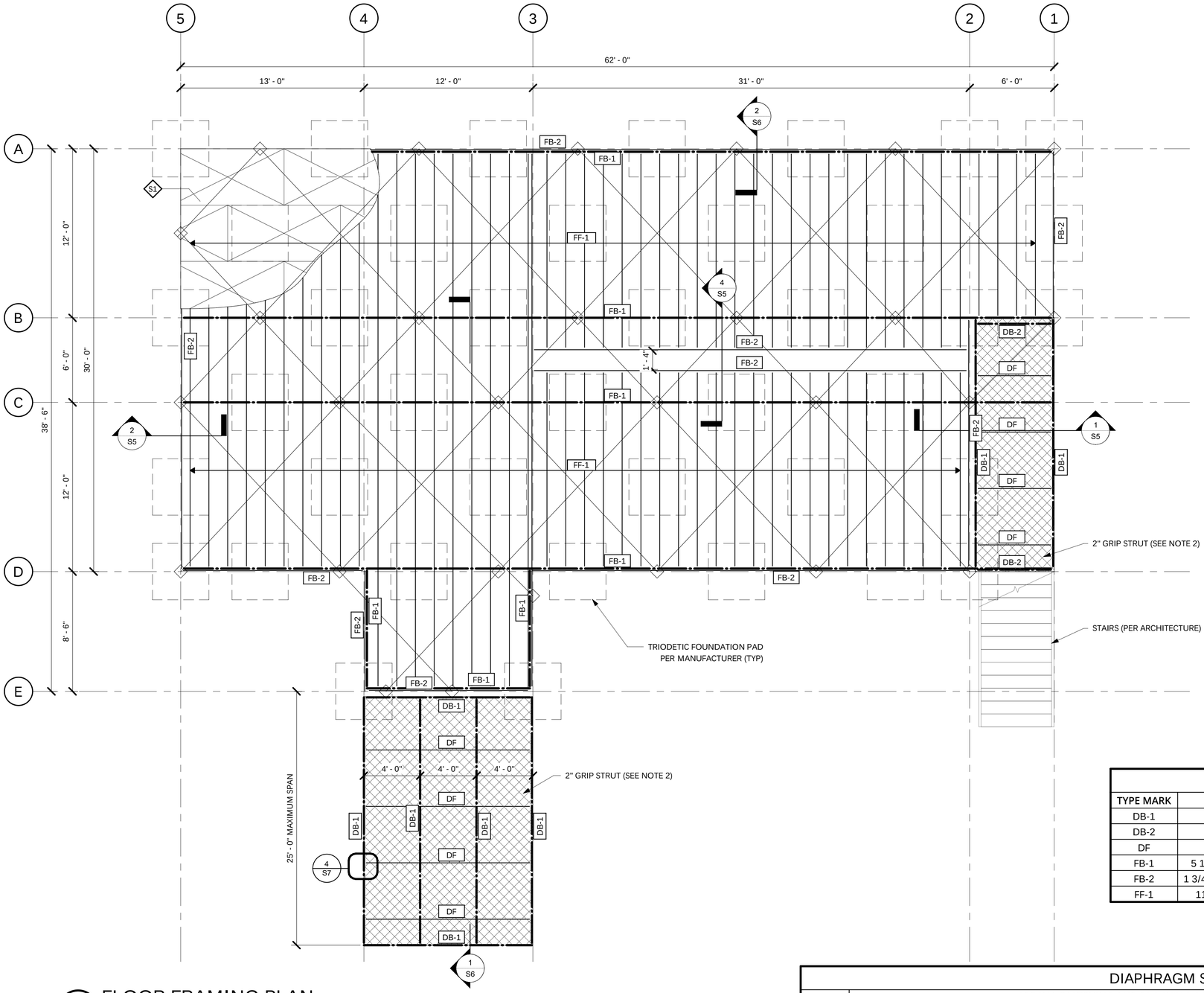
S1 OF 7



1 S2 FLOOR FRAMING PLAN

1/4" = 1'-0"

NOTES:
1. FOUNDATION SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL COORDINATE SHOP DRAWINGS WITH MANUFACTURER AND SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. GRIP STRUT SHALL BE McNICHOLS 10-DIAMOND 24-INCH 12-GAUGE GALVANIZED STEEL PLANK GRATING.
3. INSTALL FLASHING GAP OVER GLB AT EXTERIOR DECKS TO PROTECT FROM THE ELEMENTS.

FLOOR FRAMING SCHEDULE		
TYPE MARK	TYPE/SIZE	DESCRIPTION
DB-1	C12x25	HOT-DIPPED GALVANIZED
DB-2	C8x11.5	HOT-DIPPED GALVANIZED
DF	C6x10.5	HOT-DIPPED GALVANIZED @ 4' - 0" OC
FB-1	5 1/8" x 18" GLB	DF/DF 24F-V8 GLB, 2-SPAN CONTINUOUS MINIMUM
FB-2	1 3/4" x 11 7/8" LVL	3100 Fb 2.0E VERSALAM
FF-1	11 7/8" JOISTS	RED-I65 @ 16" OC

DIAPHRAGM SCHEDULE							
	SPECIAL FASTENING AND BLOCKING CONDITIONS ARE NOTED ON FRAMING PLANS						
			FASTENER SPACING				
TYPE	LOCATION	SHEATHING	BOUNDARY	EDGE	FIELD	FASTENERS	COMMENTS
S1	FLOOR	3/4" T&G 48/24 APA-RATED	4" OC	6" OC	12" OC	3 x 0.148	BLOCKING AS NOTED & GLUED @ EA SUPPORT
S2	ROOF	5/8" CDX 32/16 APA-RATED	4" OC	6" OC	8" OC	3 x 0.148	BLOCKING AS NOTED

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SOUTHCENTRAL FOUNDATION

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TAKOTNA, AK

FLOOR FRAMING PLAN

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1" ONE INCH

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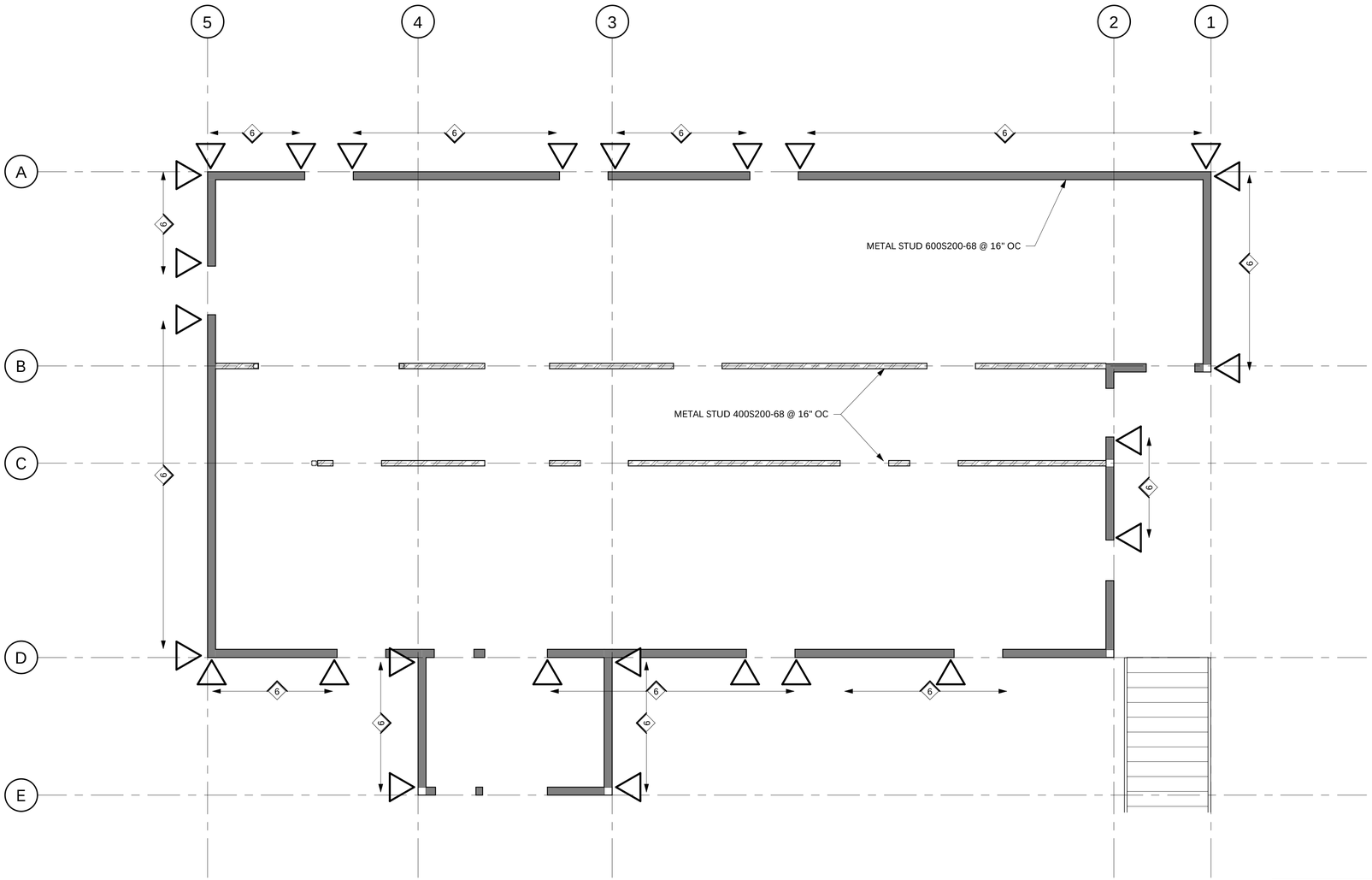

2 / S3 SHEARWALL PLAN

1/4" = 1'-0"

SHEARWALL SCHEDULE:	REMARKS:	SILL ℄ NAILING/BOLTING:
6 7/16" OSB SHEATHING W/ #8 METAL SCREW @ 6" OC ALL EDGES	SEE NOTES	PLATE @ 16" OC W/ (4) #8 SCREWS AND (4) 10d

LEGEND:

- SIMPSON MSTC66B3 WALL TO FLOOR BEAMS
- METAL STUD WALL W/ SHEARWALL SHEATHING

NOTES:

1. SEE DIAPHRAGM SCHEDULE FOR FASTENER SIZING AND SPACING.
2. FIELD FASTENING FOR SHEARWALLS SHALL BE 12" OC MAXIMUM.
3. SIMPSON MSTC66B3 TO BE INSTALLED TO METAL STUDS PER MANUFACTURER'S RECOMMENDATIONS.

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TAKOTNA, AK

SHEARWALL PLAN

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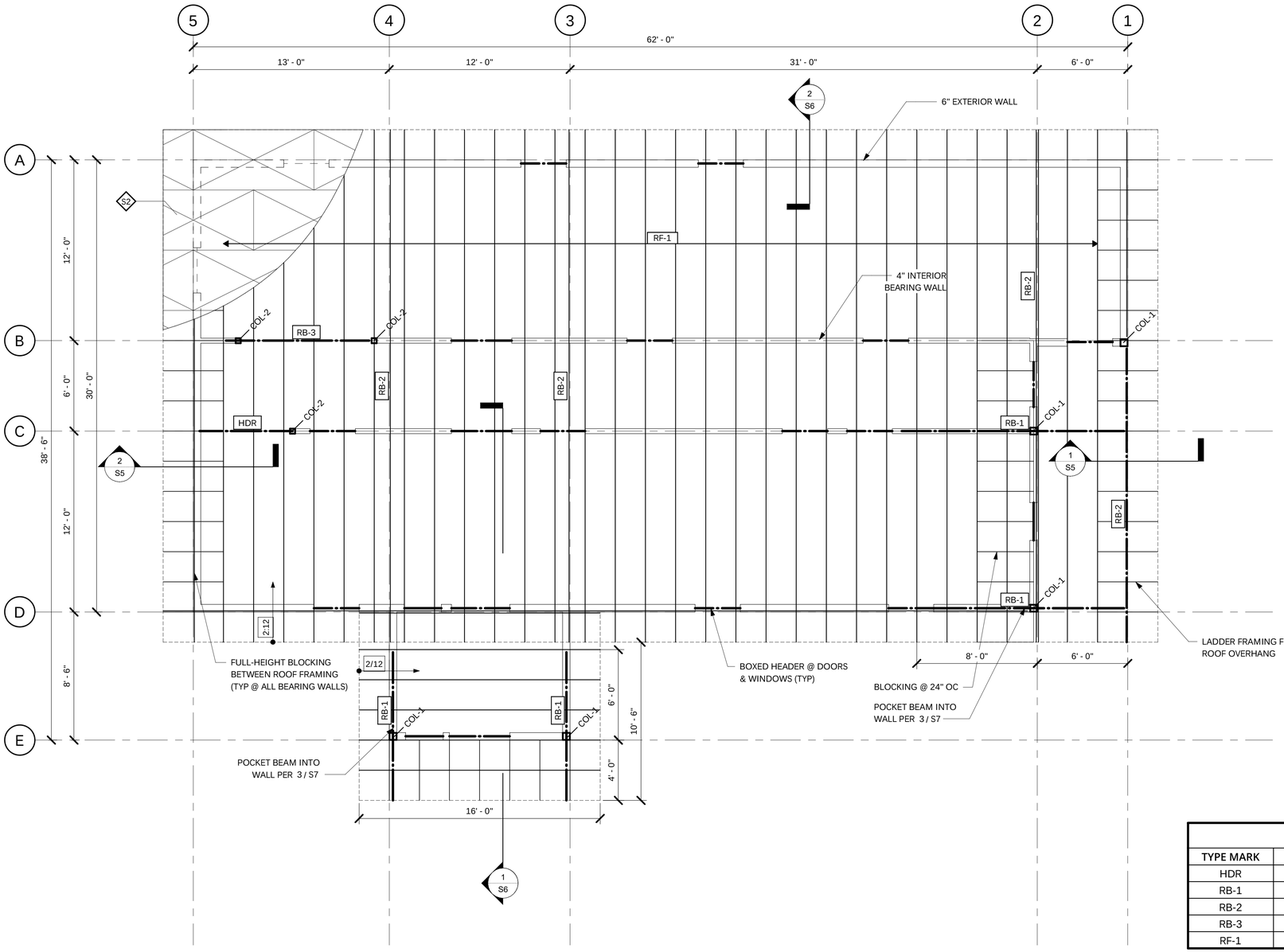

1 S4 ROOF FRAMING PLAN

1/4" = 1'-0"

NOTES:
1. ALL HEADERS AND COLUMNS TO BE SUPPORTED BY A MINIMUM OF ONE TRIMMER AND KING STUD.
2. ALL WALL STUDS SHALL BE FULL HEIGHT TO THE BOTTOM OF THE ROOF FRAMING.
3. TRACK SPLICE PER STUD MANUFACTURER REQUIRED AT ALL WALL TOP PLATE JOINTS.

STRUCTURAL COLUMN SCHEDULE

TYPE MARK	TYPE/ SIZE	DESCRIPTION
COL-1	DOUBLE 6" STUD COLUMN	(2) 600S200-68 W/ 400S200-68 EACH SIDE
COL-2	TRIPLE 4" STUD COLUMN	(3) 400S200-68 W/ 600S200-68 EACH SIDE

ROOF FRAMING SCHEDULE

TYPE MARK	TYPE/ SIZE	DESCRIPTION
HDR	DOUBLE STUD BOX HEADER	(2) 600S200-68 W/ 400S200-68 TOP & BOTTOM
RB-1	5 1/8" x 12" GLB	DF/DF 24F-V8 GLB
RB-2	1 3/4" x 16" LVL	3100 Fb 2.0E Versalam
RB-3	6" BOX BEAM	(3) 600S200-68 W/ 400S200-68 TOP & BOTTOM
RF-1	16" JOISTS	RED-I65 @ 16" OC

DIAPHRAGM SCHEDULE

TYPE	LOCATION	SHEATHING	SPECIAL FASTENING AND BLOCKING CONDITIONS ARE NOTED ON FRAMING PLANS: FASTENER SPACING BOUNDARY	FASTENER SPACING EDGE	FASTENER SPACING FIELD	FASTENERS	COMMENTS
S1	FLOOR	3/4" T&G 48/24 APA-RATED	4" OC	6" OC	12" OC	3 x 0.148	BLOCKING AS NOTED & GLUED @ EA SUPPORT
S2	ROOF	5/8" CDX 32/16 APA-RATED	4" OC	6" OC	8" OC	3 x 0.148	BLOCKING AS NOTED

100% DRAWING SET

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ROOF FRAMING PLAN

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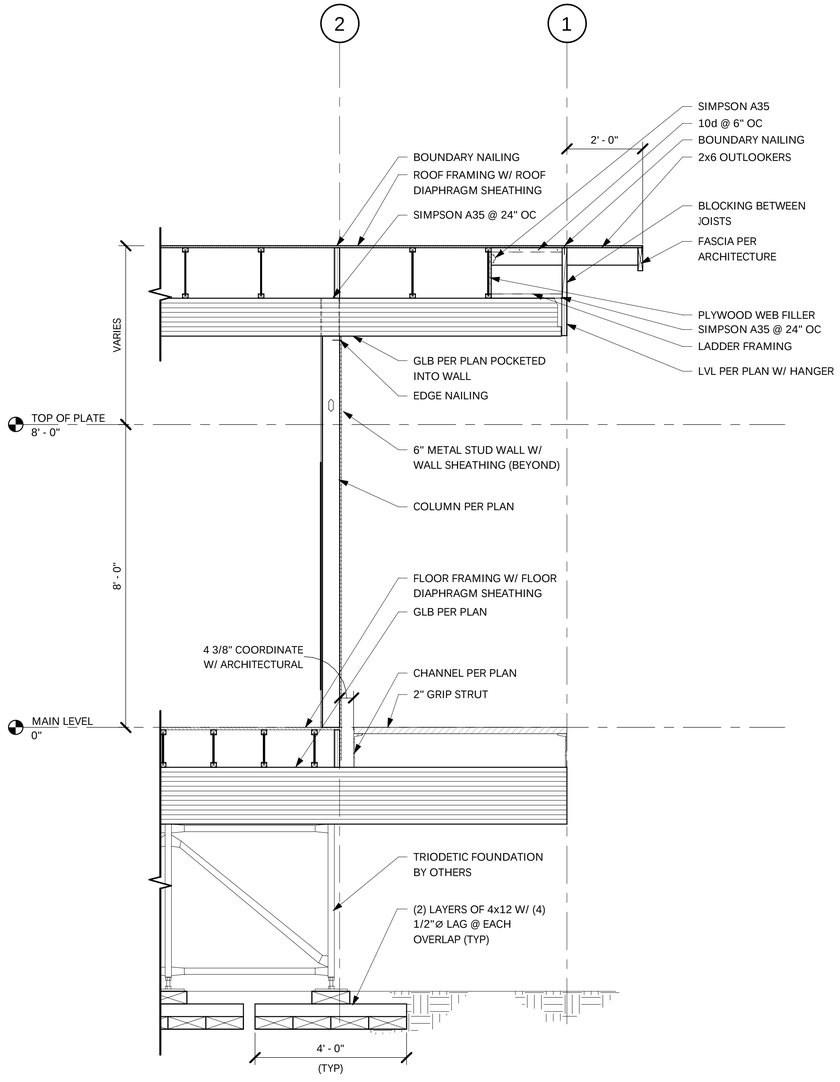
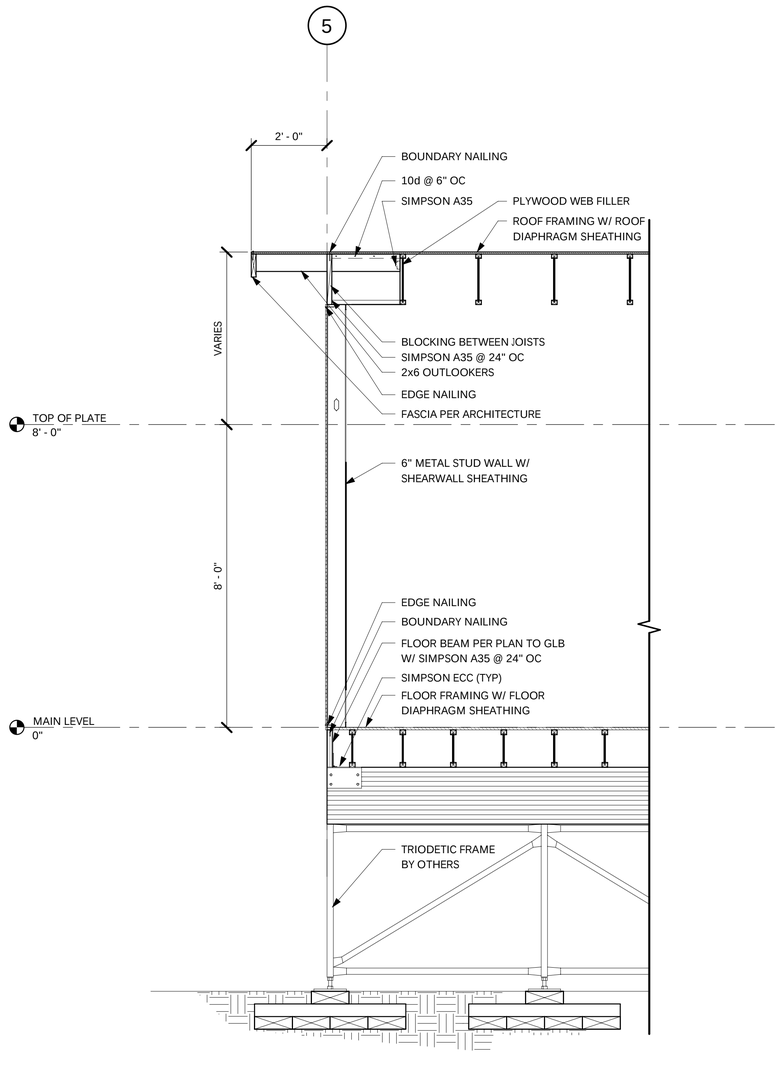
30" x 21" BORDER



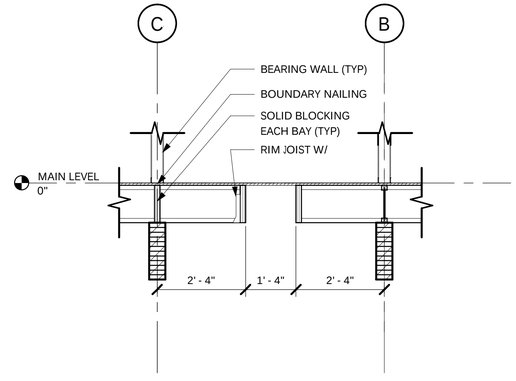
1 S5 EAST SECTION

1/2" = 1'-0"



2 S5 WEST SECTION

1/2" = 1'-0"



4 S5 FLOOR FRAMING PLUMBING CHASE

1/2" = 1'-0"

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1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

SECTIONS

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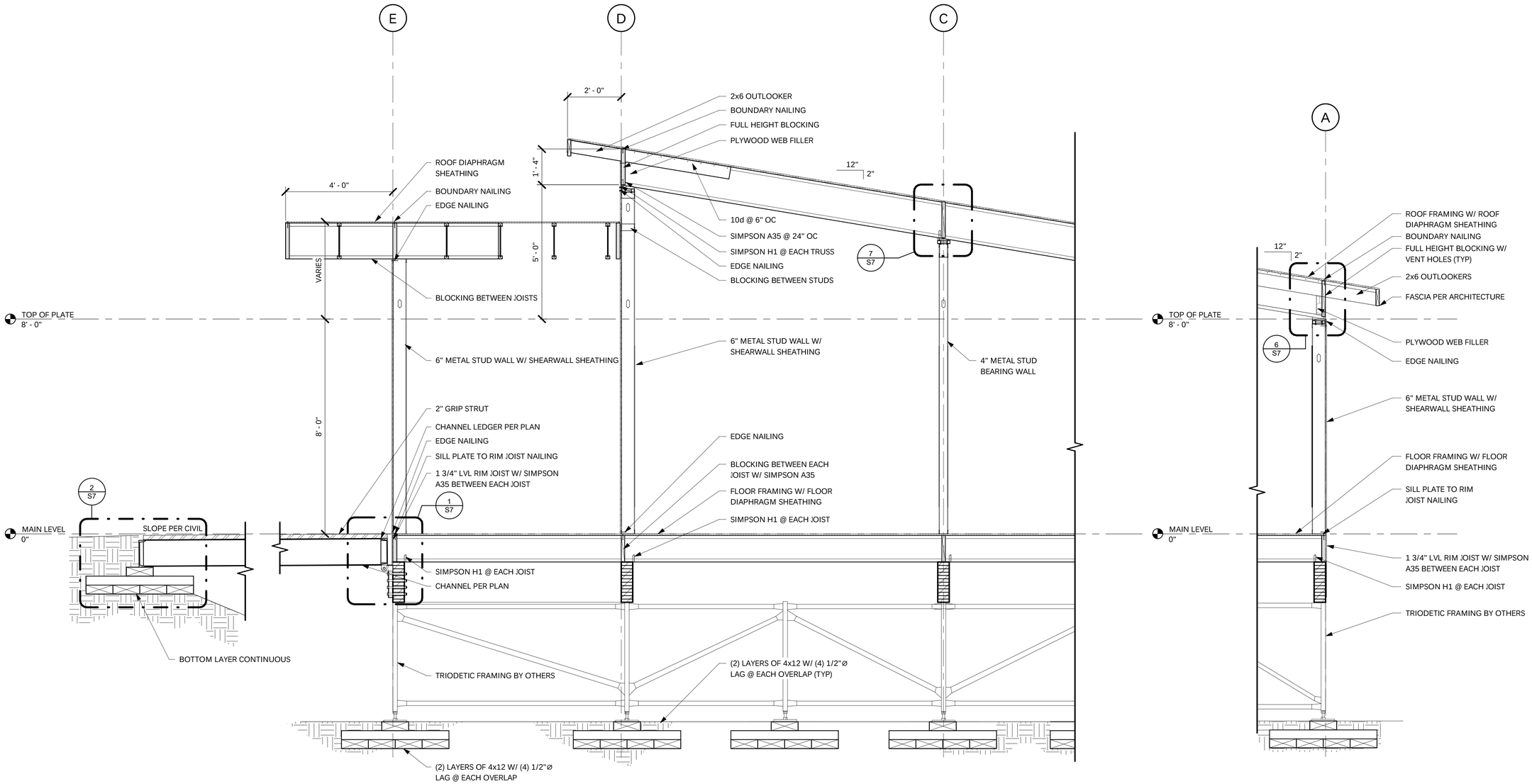

1 S6 NORTH SECTION

1/2" = 1'-0"

2 S6 SOUTH SECTION

1/2" = 1'-0"

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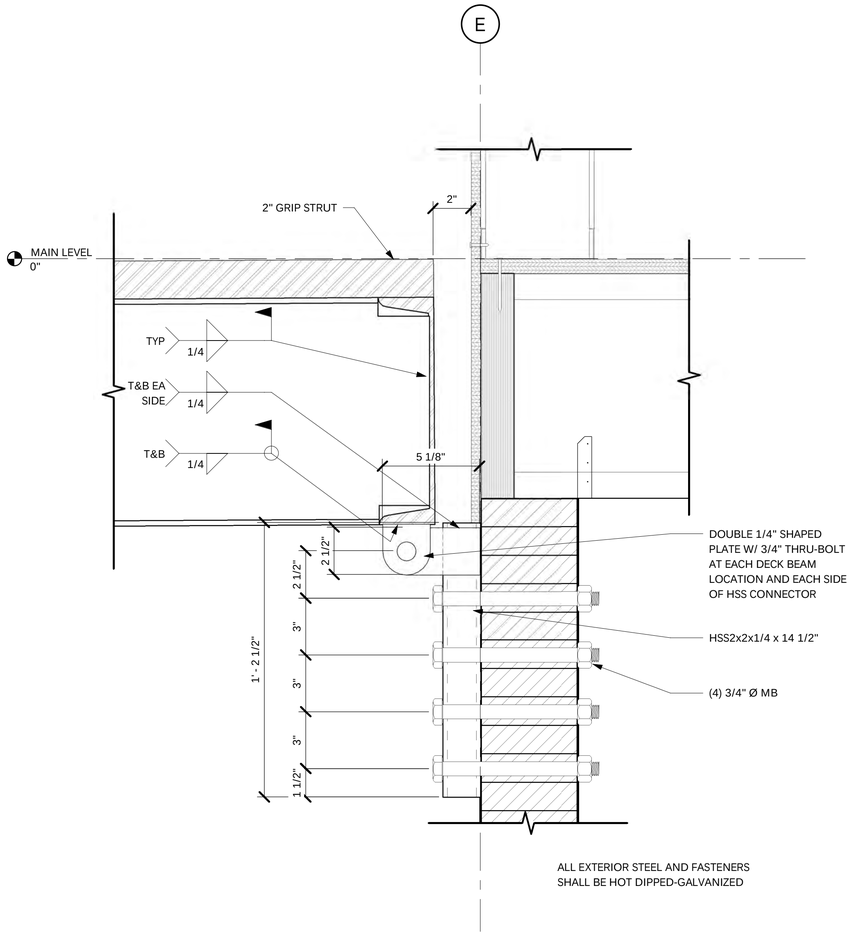
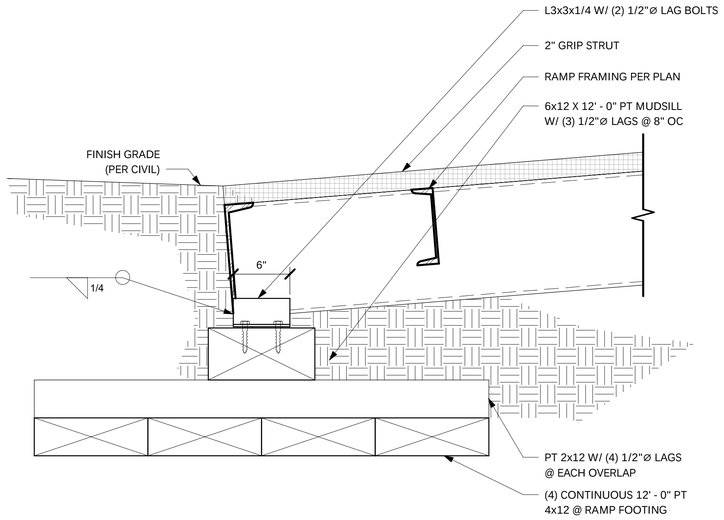
S6 OF 7

30" x 21" BORDER



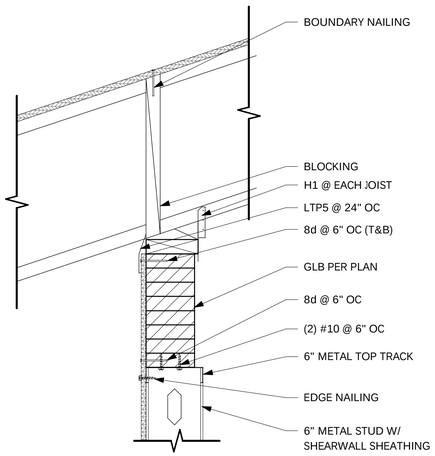
1 S7 RAMP HINGE CONNECTION

3" = 1'-0"



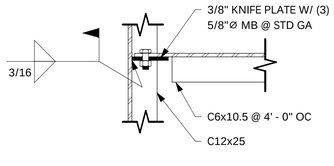
2 S7 RAMP FOOTING

1 1/2" = 1'-0"



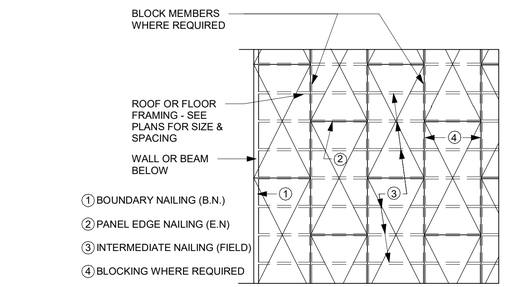
3 S7 GLB TO WALL CONNECTION

1 1/2" = 1'-0"



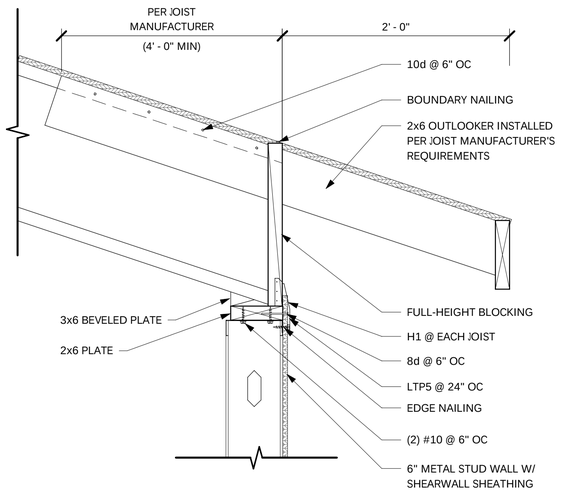
4 S7 DECK FRAMING CONNECTION

1 1/2" = 1'-0"



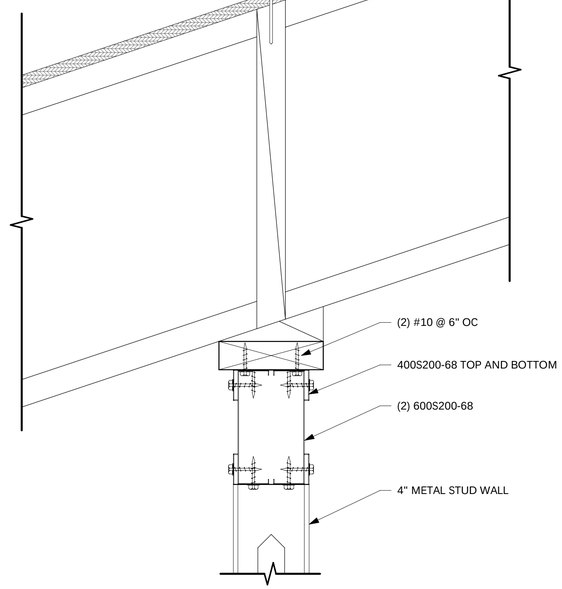
5 S7 TYPICAL DIAPHRAGM PLAN

1/4" = 1'-0"



6 S7 TRUSS HEEL FRAMING

1 1/2" = 1'-0"



7 S7 BOX HEADER

3" = 1'-0"

100% DRAWING SET

STATE OF ALASKA
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DALE L. MCCOY
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REGISTERED PROFESSIONAL ENGINEER
08/07/2020

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TAKOTNA HEALTH CLINIC
TAKOTNA, AK

FRAMING DETAILS

P:\1250-1299\1285.01 SCF Takotna Replacement Health Clinic_Architecture\1285.01 Takotna Clinic - S.rvt

1" ONE INCH

SHEET SIZE:	34x22
DESIGNED BY:	DM
DRAWN BY:	SC
CHECKED BY:	DM
DATE:	7/29/2020
FILE NO.	1285.01

SHEET NUMBER

S7 OF 7

MECHANICAL LEGEND

- WASTE
- VENT PIPING
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATED
- XXX — SEE ABBREVIATIONS FOR MEDIA
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- CAP
- UNION
- DIRECTION OF FLOW
- ISOLATION VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- CHECK VALVE
- BALANCE/SHUT-OFF VALVE
- PRESSURE REDUCING VALVE
- FLEXIBLE PIPING CONNECTOR
- PRESSURE/TEMPERATURE RELIEF VALVE
- HOSE BIBB
- PUMP
- CLEANOUT
- PIPE GUIDE
- PIPE ANCHOR
- THERMOMETER
- PRESSURE GAUGE WITH ISOLATION COCK
- STRAINER WITH BLOWDOWN
- FLOOR CLEANOUT
- FLOOR DRAIN
- SUPPLY AIR UP & DOWN (SQUARE) / SUPPLY AIR DIFFUSER / GRILLE
- RETURN AIR UP & DOWN (SQUARE) / RETURN AIR GRILLE
- EXHAUST AIR UP & DOWN (SQUARE) / EXHAUST AIR GRILLE
- ROUND DUCT UP & DOWN
- VOLUME DAMPER
- MOTORIZED CONTROL DAMPER
- SOUND LINED DUCTWORK
- 24/12 — DUCT SIZE (FIRST NUMBER - SIDE SHOWN) (SECOND NUMBER - SIDE NOT SHOWN)
- INSULATED DUCTWORK
- TURNING VANES
- FD — FIRE DAMPER
- DIFFUSER WITH FLEXIBLE DUCT
- T — THERMOSTAT OR SENSOR
- TH — REVERSE ACTING THERMOSTAT
- H — HUMIDISTAT
- 1 — SHEET NOTES
- SX:CFM — SERVICE: S=SUPPLY, R=RETURN, E=EXHAUST; CFM; DIFFUSER OR GRILLE TAG
- 1 / M1 — DETAIL NUMBER; SHEET LOCATED ON
- BASEBOARD DESIGNATION
- BB-1 / 1.0 / 12' — ACTIVE LENGTH; GPM

ABBREVIATIONS

A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMPS	AMPERES
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
AWT	AVERAGE WATER TEMPERATURE
BDD	BACKDRAFT DAMPER
BHD	BOTTOM HORIZONTAL DISCHARGE
BI	BACKWARD INCLINE
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
C/A	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONT	CONTINUED
CO	CLEANOUT
CONN	CONNECTION
CP	CIRCULATION PUMP
CUH	CABINET UNIT HEATER
CW	COLD WATER
ø	DIAMETER
dB	DECIBELS
DBD	DOWNBLAST DISCHARGE
DEG	DEGREE
DN	DOWN
DWG	DRAWING
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	ETHYLENE GLYCOL
ET	EXPANSION TANK
EXH	EXHAUST
EWT	ENTERING WATER TEMPERATURE
EST	EXTERNAL STATIC PRESSURE
EGT	ENTERING GLYCOL TEMPERATURE
EXIST	EXISTING
FT	FEET
FPM	FEET PER MINUTE
FPF	FINS PER FOOT
FC	FORWARD CURVE
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FIRE DAMPER, FLOOR DRAIN
FSD	FIRE SMOKE DAMPER
G	NATURAL GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GI	GREASE INTERCEPTOR
GT	GLYCOL TANK
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HGR	HEATING GLYCOL RETURN
HGS	HEATING GLYCOL SUPPLY
HW	HOT WATER
HWC	HOT WATER CIRCULATED
HP	HORSEPOWER
ID	INSIDE DIAMETER
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LF	LINEAL FEET
LGT	LEAVING GLYCOL TEMPERATURE
LPG	LIQUID PROPANE GAS
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MFGR	MANUFACTURER
M/A	MAKEUP AIR
MIN	MINIMUM
MTD	MOUNTED
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NSF	NATIONAL SANITARY FOUNDATION
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PROPYLENE GLYCOL
PH	PHASE
PSI	POUNDS PER INCH
R/A	RETURN AIR
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RL	RAIN LEADER
S/A	SUPPLY AIR
SD	STORM DRAIN
SP	STATIC PRESSURE
T/A	TRANSFER AIR
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TW	TEMPERED WATER
TWC	TEMPERED WATER CIRCULATED
TYP	TYPICAL
UH	UNIT HEATER
V	VENT
VEL	VELOCITY
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
WC	WATER COLUMN
WG	WATER GAGE
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER
W	WASTE
WPD	WATER PRESSURE DROP
YCO	YARD CLEAN OUT

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MINIMUM CONNECTION SIZE CW	HW	WASTE	VENT	TRAP	MFGR	MODEL	COLOR	TRIM / REMARKS
WC-1	WATER CLOSET - FLOOR MOUNT - ADA	1/2"	---	3"	2"	---	KOHLER	HIGHLINE K-3999-UT	WHITE	ELONGATED BOWL, SPLIT RIM SEAT WITH COVER, INSULATED TANK, TANK LOCKS
SK-1	SINK - DENTAL	1/2"	1/2"	2"	1-1/2"	2"	ELKAY	LR1722PD	STAINLESS	DELTA FAUCET 26C3944 WITH GOOSENECK SPOUT, LAMINAR FLOW, AND SANITARY BLADES
SK-2	SINK - EXAM ROOM/BEHAVIORAL HEALTH	1/2"	1/2"	2"	1-1/2"	2"	ELKAY	LR1722PD	STAINLESS	DELTA FAUCET 26C3944 WITH GOOSENECK SPOUT, LAMINAR FLOW, AND SANITARY BLADES
SK-3	SINK - EXAM ROOM 1/TRAUMA	1/2"	1/2"	2"	1-1/2"	2"	ELKAY	LR1722PD	STAINLESS	SPEAKMAN SEF-1800-CA-TW FAUCET WITH EYEWASH, ACTIVATOR, FLIP-TOP DUST
										CAPS, GOOSENECK, BLADE HANDLES, AND THERMOSTATIC MIXING VALVE
SK-4	SINK - JANITOR	1/2"	1/2"	3"	2"	3"	FIAT	MSB-2424	WHITE	FIAT FAUCET 830-AA, 832-AA HOSE AND BRACKET, E-77-AA VINYL
										BUMPERGUARD, AND 889-CC MOP HANGER
LV-1	LAVATORY - WALL MOUNT - ADA	1/2"	1/2"	1-1/2"	1-1/2"	1-1/4"	KOHLER	KINGSTON K-2005	WHITE	DELTA FAUCET 515LF-HDF WITH POP-UP STRAINER, CONCEALED ARM SUPPORTS, ADA
										WALL CARRIER, PROTECTIVE COVER FOR WASTE/HOT/COLD PIPING AND ANGLE STOPS
WB-1	WASHER BOX	1/2"	1/2"	2"	1-1/2"	2"	OATEY	38541	---	WITH WATER HAMMER ARRESTORS
FD-1	FLOOR DRAIN	1/2"	---	2"	1-1/2"	2"	J.R. SMITH	DX-2010	---	ROUND TOP, TRAP PRIMER, SECURING HOLES FOR WOOD FLOOR INSTALLATION
FS-1	FLOOR SINK	1/2"	---	2"	1-1/2"	2"	J.R. SMITH	DX 3001	---	TRAP PRIMER, SECURING HOLES FOR WOOD FLOOR INSTALLATION, 3/4 SS GRATE
SH-1	SHOWER - ADA	1/2"	1/2"	2"	1-1/2"	2"	MAAX	OPS-3636	WHITE	DELTA T13H152 WITH R10000-UNWS VALVE BODY, 70" FLEX HOSE, METAL LEVER, ADJUSTABLE
										MAXIMUM TEMPERATURE, INTEGRAL CHECK STOPS, PRESSURE BALANCED, 24" STAINLESS STEEL
										SLIDE BAR, ONE PIECE FIBERGLASS UNIT, ONE HORIZONTAL L-SHAPED TEXTURED STAINLESS
										STEEL GRAB BAR, FOLD UP SEAT, RECESSED SOAP DISH, CHROME CURTAIN ROD WITH VINYL
										SHOWER CURTAIN, BRASS DRAIN WITH CHROME PLATED STAINLESS STEEL GRID, INSTALL PER ADA
										REQUIREMENTS, PROVIDE BACKING IN WALL AS REQUIRED FOR GRAB BAR INSTALLATION

TEMPERING VALVE SCHEDULE

SYMBOL	MFGR / MODEL	INLET SIZES	OUTLET SIZE	MINIMUM FLOW RATE (GPM)	FLOW RATE AT 10 PSI DROP (GPM)	FINISH	LISTING	APPROVAL	REMARKS
TV-1	WATTS / LF1170-M2	1"	1"	0.5	10	BRASS	ASSE 1017	CSA B125	INTEGRAL CHECK VALVES & FILTER WASHERS, LEAD FREE, SET OUTLET TO 120°F, CONNECTION AS REQUIRED

EXPANSION TANK SCHEDULE

SYMBOL	MFGR / MODEL	FUNCTION	FLUID	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	DIMENSIONS	MATERIAL	LABEL	REMARKS
ET-1	AMTROL / EXTROL AX-40V	HYDRONIC EXPANSION	50% P.G.	23.0	11.3	15"ø x 33"	STEEL/BUTYL	ASME	SET PRE-CHARGE TO 12 PSIG
ET-2	AMTROL / THERM-X-TROL ST-12	DOMESTIC HOT WATER EXPANSION	WATER	4.4	3.2	11"ø x 15"	STEEL/BUTYL	NSF	SET PRE-CHARGE TO 40 PSIG

TANK SCHEDULE

SYMBOL	MFGR / MODEL	FUNCTION	FLUID	CAPACITY (GALLONS)	DIMENSIONS	MATERIAL	LABEL	REMARKS
GT-1	AXIOM / MF200	GLYCOL MIX	50% P.G.	6.6	16"x12"x12"	PLASTIC	ETL	WITH PACKAGED PUMP, SHELF, LOW PRESSURE ALARM, AND CONTROLS: 50 WATTS, 120V/1PH
FOT-1	GREER TANK / PER MFGR	FUEL OIL STORAGE	#1 F.O.	2,500	64"ø x 204"L	STEEL	UL-142	DOUBLE WALL ABOVE GROUND SKID TANK WITH WEATHERPROOF COATING

HOT WATER GENERATOR SCHEDULE

SYMBOL	MFGR / MODEL	DOMESTIC HOT WATER RECOVERY (GPH)	CAPACITY (GAL)	EWT	LWT	HEATING MEDIUM FLUID	FLOW (GPM)	WPD (FT HD)	EFT	LFT	LABEL	REMARKS
HWG-1	TRIANGLE TUBE / SMART 40	150	36	40°F	140°F	50% P.G.	7	1.0	180°F	140°F	---	STAINLESS STEEL, TANK-IN-TANK HEAT EXCHANGER

PUMP SCHEDULE

SYMBOL	MFGR / MODEL	SERVICE	FLUID	GPM	HEAD FT.	MOTOR DATA HP	WATTS	VOLTS/PH	REMARKS
BC-1	GRUNDFOS / UPS 26-99 FC	BOILER CIRCULATION	50% P.G.	14	5'	1/6	---	120/1	CAST IRON, SET INITIALLY TO SPEED ONE
CP-1A	GRUNDFOS / MAGNA3 32-100F	BUILDING HEAT	50% P.G.	14.7	22'	---	178.3	120/1	CAST IRON, INTEGRAL VFD, AUTOADAPT CONTROL MODE
CP-1B	GRUNDFOS / MAGNA3 32-100F	BUILDING HEAT	50% P.G.	14.7	22'	---	178.3	120/1	CAST IRON, BACKUP PUMP, INTEGRAL VFD, AUTOADAPT CONTROL MODE
CP-2	GRUNDFOS / UP 26-64 F	HOT WATER GENERATOR	50% P.G.	7	16'	1/12	---	120/1	CAST IRON
CP-3	GRUNDFOS / ALPHA2 26-99	WATER SERVICE RECIRCULATION	WATER	5.0	20'	---	120	120/1	RATED FOR OPEN SYSTEMS, STAINLESS STEEL, ECM MOTOR

AIR SEPARATOR SCHEDULE

SYMBOL	MFGR / MODEL	SYSTEM	FLUID	FLOW RATE (GPM)	WPD (FT. HD)	INLET/OUTLET SIZE	DIMENSIONS	MATERIALS	LABEL	REMARKS
AS-1	SPIROTHERM / VDT-200	HEATING SYSTEM	50% P.G.	14.7	<1.0'	2"	25.3"H x 6.3"ø	STEEL	---	COMBINATION AIR AND DIRT SEPARATOR WITH AUTO AIR VENT

BOILER SCHEDULE

SYMBOL	MFGR / MODEL	TYPE	FLUID	FUEL	GROSS INPUT (GPH)	AHRI HEATING CAPACITY (MBH)	ELEC. DATA HP	VOLTS/PH	LABEL	REMARKS
B-1	WEIL-McLAIN / WGO-6	CAST IRON	50% PG	#1 F.O.	1.75	184	FR	120/1	ASME	TRIM PER IMC CHAPTER 10, ASME CSD-1 COMPLIANT,
										30 PSI RELIEF, BECKETT BURNER

100% DRAWING SET

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Timothy C Hickman
ME-14669
07/31/20
REGISTERED PROFESSIONAL ENGINEER

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TAKOTNA HEALTH CLINIC
TAKOTNA , AK

MECHANICAL SCHEDULES, ABBREVIATIONS, AND LEGEND

SHEET SIZE:	34x22
DESIGNED BY:	PJB
DRAWN BY:	PJB
CHECKED BY:	TCH
DATE:	7/31/2020
FILE NO.	2020.025.0

SHEET NUMBER
M0.1 OF 8M

1" ONE INCH

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BASEBOARD RADIATION SCHEDULE

SYMBOL	MFGR / MODEL	OUTPUT (BTU/LF)	FLUID	EFT	LFT	TUBE SIZE	ELEMENT FIN SIZE	FIN PER FOOT	FIN THICKNESS	NUMBER OF TIERS	MOUNTING HEIGHT	ENCLOSURE THICKNESS	REMARKS
BB-1	STERLING / JVB-S14B C3/4-435	1,120	50% P.G.	180°F	160°F	3/4"ø Cu	4-1/4" x 3-5/8"	50	0.020" AL	1	18"	18 GA	SLOPED TOP, COLOR PER ARCHITECT
BB-2	STERLING / B C3/4-435	980	50% P.G.	180°F	160°F	3/4"ø Cu	4-1/4" x 3-5/8"	50	0.020" AL	1	---	---	BARE FINTUBE

DUCT COIL SCHEDULE

SYMBOL	MFGR	SIZE	CFM	AIR P.D. (IN. W.C.)	VELOCITY (FPM)	EAT	LAT	GPM	FLUID	EFT	LFT	WPD (FT. HD.)	REMARKS
DC-1	GREENHECK	12"W x 10.5"H	330	<0.1	<380	40°F	75°F	1.4	50% P.G.	180°F	160°F	<0.5'	COIL CONNECTIONS AS REQUIRED

UNIT HEATER SCHEDULE

SYMBOL	MFGR / MODEL	CAPACITY (MBH)	FLOW (GPM)	FLUID	EFT (°F)	LFT (°F)	WPD (FT HD)	CFM	ELEC. DATA HP	ELEC. DATA VOLTS/PH	REMARKS
CUH-1	EMBASSY / HAV-48	4.5	1.0	50% PG	180	160	0.2	53	FR	120/1	RECESSED VERTICAL WALL MOUNTING KIT, SET FAN TO HIGH SPEED
CUH-2	MODINE / CW-03	16.2	2.2	50% PG	180	160	0.3	330	FR	120/1	EXPOSED WALL MOUNTED
CUH-3	EMBASSY / HAV-88	7.9	1.5	50% PG	180	160	0.5	103	FR	120/1	RECESSED VERTICAL WALL MOUNTING KIT, SET FAN TO HIGH SPEED
UH-1	MODINE / HC-33	16.0	2.3	50% PG	180	160	0.2	630	FR	120/1	HORIZONTAL UNIT HEATER, SIDE CONNECTIONS

HEAT RECOVERY VENTILATOR SCHEDULE

SYMBOL	MFGR / MODEL	AIRFLOW (CFM)	TSP @ HIGH SPEED (IN. WG)	ELEC. DATA WATTS/VOLTS/PH	REMARKS
HRV-1	LIFEBREATH / 350DCS	330	0.5	610/120/1	99-DXPL02 CONTROLLER WITH 5 USER SELECTED OPERATION MODES, INTERLOCK WITH THIRD PARTY OCCUPANCY SENSOR AS REQUIRED

FAN SCHEDULE

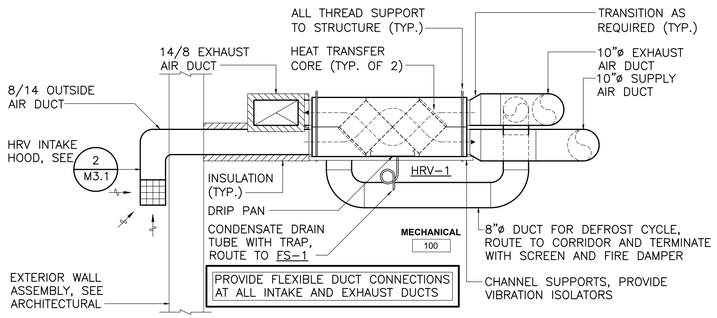
SYMBOL	MFGR / MODEL	SERVICE	TYPE	CFM	ESP (IN. WG)	MOTOR DATA AMPS	MOTOR DATA HP	MOTOR DATA VOLTS/PH	DRIVE	SONES	REMARKS
VF-1	GREENHECK / SQ-90-VG	MECH. ROOM VENT	INLINE	300	0.5"	---	1/4	120/1	DIRECT	<9	EC MOTOR, UL LISTED, INSULATED HOUSING, SPEED CONTROLLER, OUTLET GUARD
PF-1	GREENHECK / SQ-60-VG	UTILIDOR PRESSURE	INLINE	30	0.15"	---	1/6	120/1	DIRECT	<7	EC MOTOR, UL LISTED, INSULATED HOUSING, SPEED CONTROLLER, INLET GUARD
EF-1	GREENHECK / SP-B150	TELECOM EXHAUST	CENTRIFUGAL	100	0.375"	1.7	---	120/1	DIRECT	<4	WITH SPEED CONTROLLER
EF-2	GREENHECK / SP-A390	EXAM ROOM EXHAUST	CENTRIFUGAL	300	0.375"	1.4	---	120/1	DIRECT	<5	WITH SPEED CONTROLLER

GRILLE - REGISTER - DIFFUSER SCHEDULE

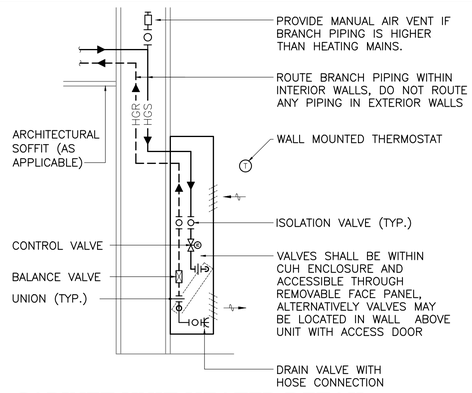
SYMBOL	MFGR / MODEL	TYPE	SERVICE	MATERIAL	FINISH	FACE SIZE	DIFFUSER NECK SIZE	THROW	REMARKS
SA	LIFEBREATH / TECHGRILLE	DIFFUSER	S/A	POLYPROPYLENE	WHITE	5.9"ø	4"ø	360°	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
SB	LIFEBREATH / TECHGRILLE	DIFFUSER	S/A	POLYPROPYLENE	WHITE	6.25"ø	5"ø	360°	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
EA	LIFEBREATH / TECHGRILLE	DIFFUSER	E/A	POLYPROPYLENE	WHITE	7.5"ø	6"ø	---	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
EB	LIFEBREATH / TECHGRILLE	DIFFUSER	E/A	POLYPROPYLENE	WHITE	9.75"ø	8"ø	---	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
BG	TITUS / CT-PP-0	GRILLE	T/A	ALUMINUM	ALUMINUM	4" WIDTH	---	---	FRAME FOR COUNTER, LOCATE ABOVE BB-1 IN ROOM 104, LENGTH AS REQUIRED, COORDINATE INSTALL WITH ARCHITECT/COUNTER

AIR CONDITIONING UNIT SCHEDULE

SYMBOL	MFGR / MODEL	SERVICE	NOMINAL COOLING (TONS)	EVAPORATOR ELECTRICAL DATA MCA	EVAPORATOR ELECTRICAL DATA VOLTS/PHASE	CONDENSER ELECTRICAL DATA MCA	CONDENSER ELECTRICAL DATA BRKR	CONDENSER ELECTRICAL DATA VOLTS/PHASE	REMARKS
AC-1	MITSUBISHI / PKA-A36NKA7	EVAPORATOR	3.0	1	230/1	---	---	---	WALL MOUNT, R-410A, WIRED WALL-MOUNT CONTROLLER, CU-1 REMOTE CONDENSER, CONDENSATE PUMP, AIRFLOW DIRECTION CONTROL,
									POWERED BY CU-1, DRAIN PAN LEVEL SENSOR
CU-1	MITSUBISHI / PUY-A36NKA7-BS	CONDENSER	3.0	---	---	25	30	230/1	EXTERIOR WALL MOUNT, R-410A, SEACOAST PROTECTION, FRONT/SIDE/REAR WIND BAFFLE FOR OPERATION DOWN TO -40°F, PROVIDE FIELD
									FABRICATED OR PRE-MANUFACTURED SUPPORT BRACKETS FOR WALL MOUNTING



1 M0.2 HRV SECTION
SCALE: NONE



2 M0.2 CABINET UNIT HEATER DETAIL
SCALE: NONE

SEQUENCE OF OPERATION

BOILER (B-1) AND CIRCULATION PUMP (BC-1)
BOILER AND BOILER CIRCULATION PUMP SHALL BE CONTROLLED BY BOILER CONTROLLER TO MAINTAIN HEATING WATER/GLYCOL SUPPLY HEADER TEMPERATURE SETPOINT. BOILER SHALL MAINTAIN SUPPLY HEADER TEMPERATURE BETWEEN 180°F AND 160°F (ADJUSTABLE) BASED ON OUTSIDE AIR TEMPERATURE RESET UPON CALL FOR HEAT. THE BOILER CONTROLLER SHALL DISABLE BOILER AND BOILER CIRCULATION PUMP, BC-1, ON OUTSIDE AIR TEMPERATURES OF 65°F (ADJUSTABLE) AND HIGHER. EITHER HIGH LIMIT CONTROLLER SHALL DISABLE BOILER ABOVE 210°F. AT LOW WATER CONDITION, EITHER LOW WATER CUT-OFF SHALL DISABLE BOILER, PROVIDE MANUAL RESET. PROVIDE DOMESTIC HOT WATER OVERRIDE SUCH THAT BOILER IS ENABLED TO FIRE WHEN IT IS DISABLED UPON OUTSIDE AIR TEMPERATURE (>65°F) AND THE HOT WATER GENERATOR HAS A CALL FOR HEAT.

GLYCOL MAKE-UP TANK (GT-1)
INTEGRAL CONTROLS SHALL CONTROL PUMP TO MAINTAIN SYSTEM PRESSURE SETPOINT (ADJUSTABLE). PROVIDE LOW LEVEL ALARM PANEL WITH SELECTABLE AUDIBLE ALARM.

CIRCULATION PUMPS (CP-1A/B)
PUMPS SHALL OPERATE IN A LEAD/LAG CONFIGURATION. UPON FAILURE OF THE LEAD PUMP, THE LAG PUMP SHALL OPERATE. THE LEAD AND LAG PUMPS SHALL ALTERNATE EVERY MONTH OR AS SCHEDULED BY THE USER. SPACE THERMOSTATS SHALL ENERGIZE THE CORRESPONDING ZONE VALVES OPEN ON CALL FOR HEAT. WHEN ANY ZONE VALVE IS OPENED OR WHEN BOILERS ARE FIRING, THE LEAD CIRCULATION PUMP SHALL OPERATE. PUMPS SHALL REMAIN OPERATIONAL DURING HWG-1 CALL FOR HEAT.

WATER SERVICE CIRCULATION PUMP (CP-3)
PUMP SHALL RUN CONTINUOUSLY. PROVIDE WITH ON-OFF WALL SWITCH FOR MAINTENANCE.

HOT WATER GENERATOR (HWG-1, CP-2 AND TV-1)
HOT WATER GENERATOR'S AQUASTAT SHALL CALL FOR HEAT TO MAINTAIN TANK WATER TEMPERATURE OF 140°F (ADJUSTABLE). ON CALL FOR HEAT FROM THE HOT WATER GENERATOR THE CIRCULATION PUMP, CP-2, SHALL OPERATE. TV-1 SHALL BE MANUALLY SET TO 120°F (ADJUSTABLE). BOILER SHALL FIRE AS REQUIRED TO MAINTAIN HEADER TEMPERATURE SETPOINT OF 180°F DURING HOT WATER GENERATOR CALL FOR HEAT.

BASEBOARD RADIATION (BB-1 AND BB-2)
UPON CALL FOR HEAT FROM ZONE THERMOSTAT, SIGNAL BOILER AND CYCLE 2-WAY CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.

CABINET UNIT HEATER (CUH-1 THRU CUH-3)
UPON CALL FOR HEAT FROM ZONE THERMOSTAT, SIGNAL BOILER, CYCLE 2-WAY CONTROL VALVE AND CYCLE UNIT FAN TO MAINTAIN SPACE TEMPERATURE.

UNIT HEATER (UH-1)
UPON CALL FOR HEAT FROM ZONE THERMOSTAT, SIGNAL BOILER AND CYCLE BLOWER TO MAINTAIN SPACE TEMPERATURE. COIL SHALL RUN WILD.

DUCT COIL (DC-1)
THREE WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN DUCT SUPPLY AIR TEMPERATURE (70°F ADJUSTABLE). PROVIDE CONTACTS ON VALVE SO THAT ON GREATER THAN 10% OPEN A CALL FOR HEAT IS PROVIDED TO THE BOILER AND CIRCULATION PUMP, CP-1A/B, OPERATE.

EXHAUST FAN (EF-1)
ON-OFF CONTROL VIA REVERSE ACTING THERMOSTAT. ON TEMPERATURE RISE ABOVE ADJUSTABLE SETPOINT FAN SHALL OPERATE.

EXHAUST FAN (EF-2)
ON-OFF CONTROL VIA LOCAL WALL SWITCH.

VENTILATION FAN - MECHANICAL ROOM (VF-1)
ON-OFF CONTROL VIA REVERSE ACTING THERMOSTAT (ADJUSTABLE). ON TEMPERATURE RISE ABOVE ADJUSTABLE SETPOINT FAN SHALL OPERATE. OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN 55°F (ADJUSTABLE) SUPPLY AIR TEMPERATURE. WHEN FAN IS OFF, RETURN AIR DAMPER SHALL BE OPEN AND OUTSIDE AIR DAMPER SHALL BE CLOSED. SPEED CONTROLLER TO BE USED FOR BALANCING.

PRESSURIZATION FAN - UTILIDOR (PF-1)
ON-OFF CONTROL VIA ILLUMINATED WALL SWITCH, COORDINATE WITH ELECTRICAL. SPEED CONTROLLER TO BE USED FOR BALANCING.

HEAT RECOVERY VENTILATOR (HRV-1)
UNIT SHALL OPERATE CONTINUOUSLY UPON ACTIVATION OF THIRD PARTY OCCUPANCY SENSOR, SEE ELECTRICAL FOR SENSOR LOCATION. OCCUPANCY SENSOR SHALL HAVE A 0-2 HOUR TIME DELAY FEATURE, COORDINATE WITH END USER FOR DESIRED TIME DELAY DURATION SETTING. UNIT MOUNTED ELECTRONIC CONTROLLER SHALL CONTROL FAN SPEED. HUMIDISTAT SHALL INCREASE SPEED AUTOMATICALLY AS REQUIRED TO MAINTAIN 50% RH (ADJUSTABLE). ELECTRONIC CONTROLLER SHALL AUTOMATICALLY ENGAGE DEFROST CYCLE AS REQUIRED TO MAINTAIN HEAT TRANSFER COIL FROST FREE. REMOTE DIGITAL ELECTRONIC 99-DXPL02 CONTROLLER SHALL ENGAGE HRV IF UNIT IS OFF, OR BOOST HRV TO HIGH SPEED IF UNIT IS ON, FOR 20-MINUTE TIME DURATIONS.

AIR CONDITIONING SYSTEM (AC-1 AND CU-1)
INTEGRAL PACKAGED CONTROLS SHALL OPERATE INDOOR UNIT, IN CONJUNCTION WITH CONDENSING UNIT, TO MAINTAIN SPACE TEMPERATURE SETPOINT (75°F, ADJUSTABLE) VIA WIRED CONTROLLER. CONDENSATE PUMP SHALL AUTOMATICALLY OPERATE AS REQUIRED TO DRAIN CONDENSATE FROM THE INDOOR UNIT.

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MECHANICAL SCHEDULES AND SEQUENCE OF OPERATIONS

SHEET SIZE:	34x22
DESIGNED BY:	PJB
DRAWN BY:	PJB
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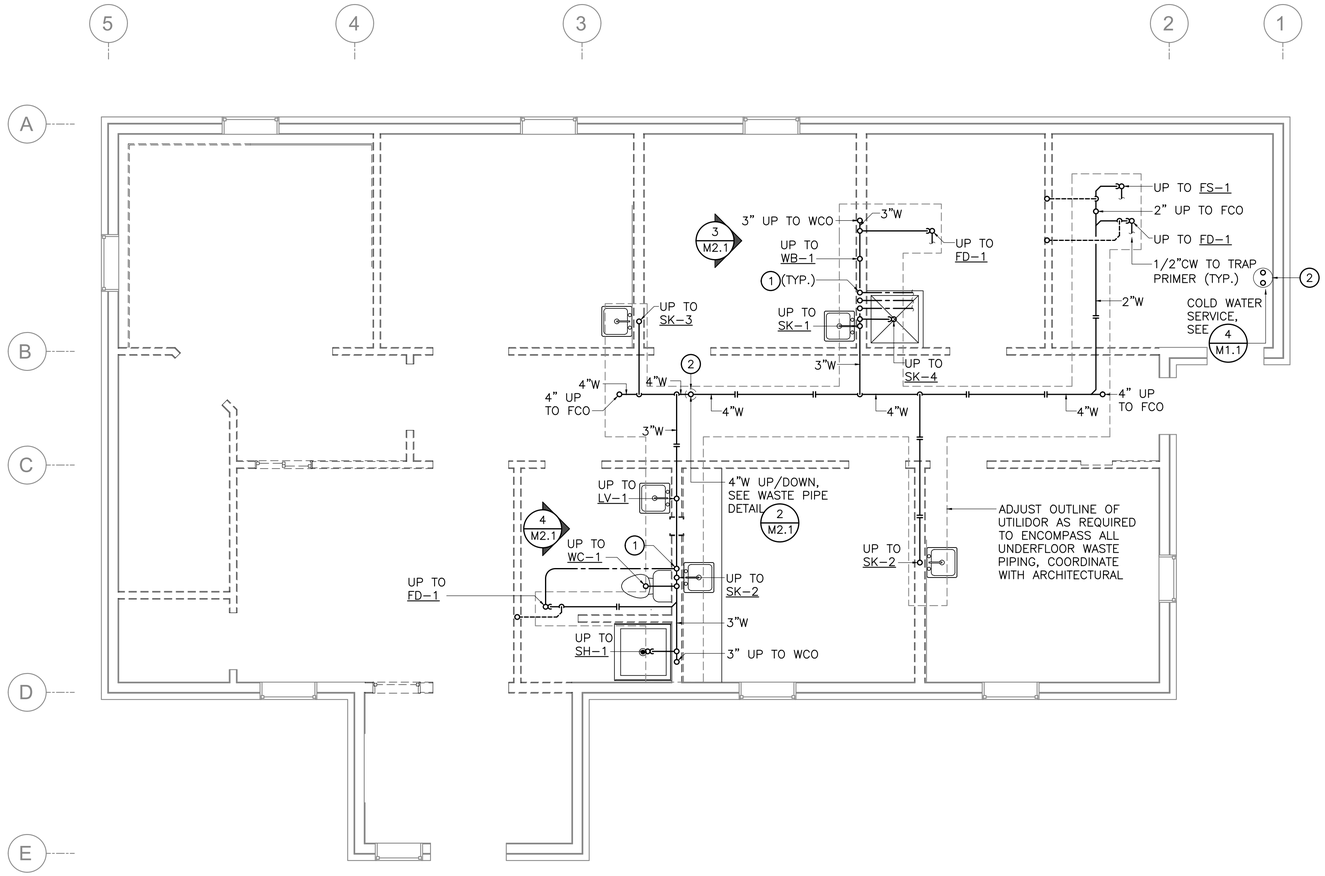


1 M1.1 UNDERFLOOR PLUMBING PLAN

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

N

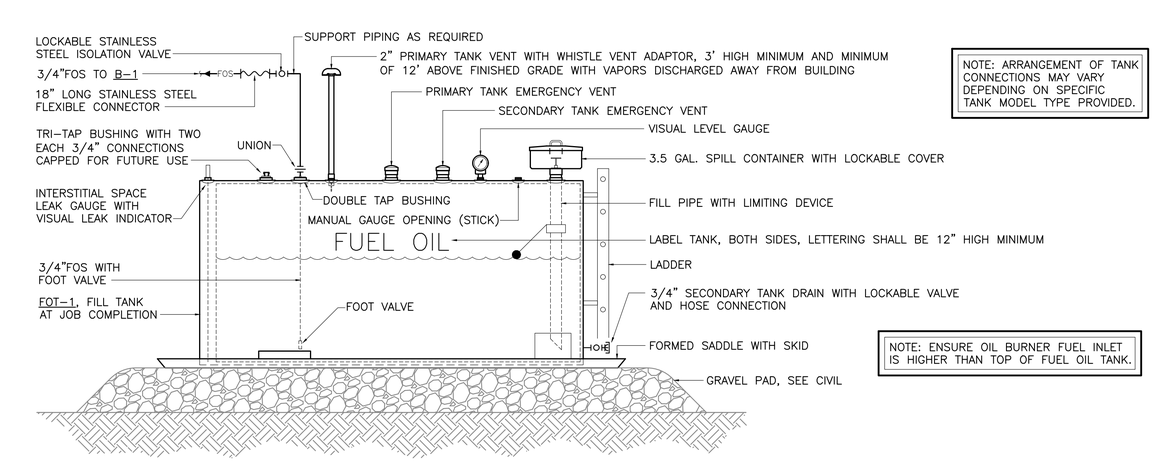
SHEET NOTES

1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE REQUIRED BY THE PLUMBING FIXTURES SCHEDULE UNLESS OTHERWISE INDICATED.
2. PROVIDE CLEANOUTS ON ALL INDIVIDUAL SINK, LAVATORY, AND WASHER BOX RISERS.
3. DO NOT ROUTE ANY PIPING IN EXTERIOR WALLS UNLESS OTHERWISE INDICATED.
4. ENSURE WASTE PIPING IS ROUTED ABOVE FLOOR ASSEMBLY INSULATION. DO NOT ROUTE ANY WASTE PIPING WITHIN INSULATION. COORDINATE WASTE PIPE PENETRATIONS OF FLOOR JOIST WITH STRUCTURAL. COORDINATE WASTE PIPE ROUTING WITHIN UTILIDOR WITH ARCHITECTURAL.
5. SLOPE 3"W PIPING AND SMALLER AT 1/4" PER FOOT. SLOPE 4"W PIPING AT 1/8" PER FOOT.

KEY NOTES

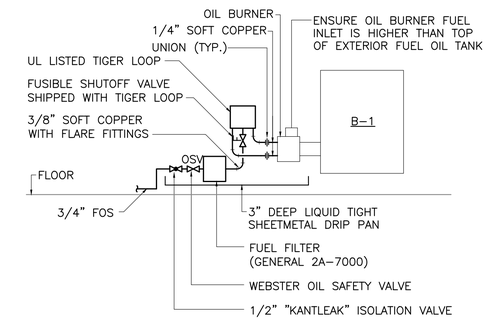
(1) 1/2"CW UP TO TRAP PRIMER, SEE 2/M1.2.

(2) COORDINATE UTILITY PENETRATIONS WITH FOUNDATION DESIGN.



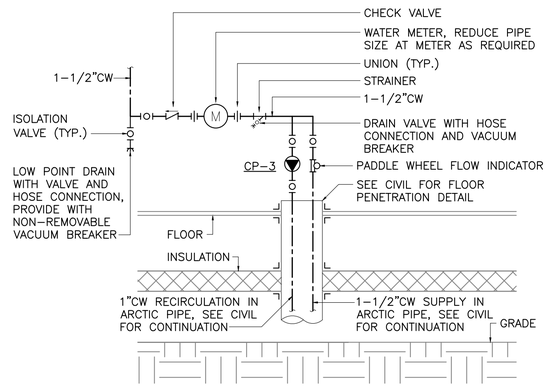
2 M1.2 FUEL OIL TANK DETAIL

SCALE: NONE



3 M1.1 FUEL CONNECTION DETAIL

SCALE: NONE



4 M1.1 WATER METER DETAIL

SCALE: NONE

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TAKOTNA , AK

UNDERFLOOR PIPING PLAN AND DETAILS

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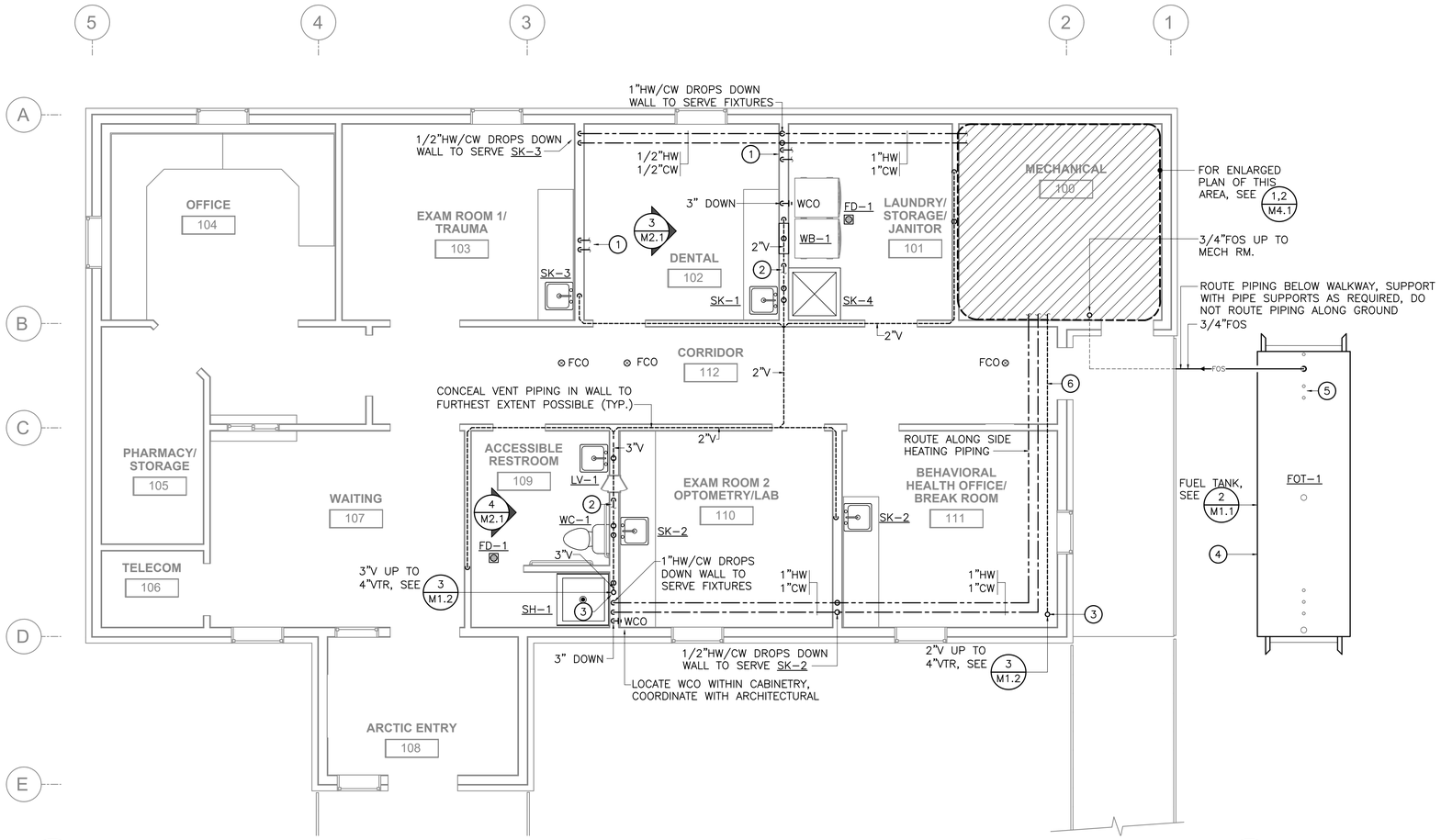


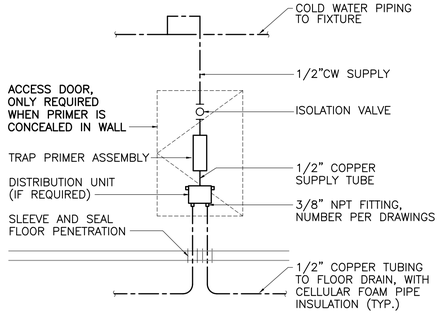
1 PLUMBING PLAN
M1.2 SCALE: 1/4" = 1'-0"

SHEET NOTES

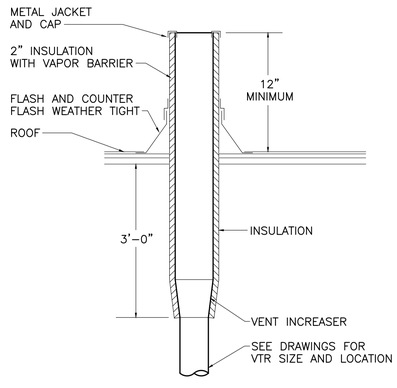
1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE REQUIRED BY THE PLUMBING FIXTURES SCHEDULE UNLESS OTHERWISE INDICATED.
2. PROVIDE CLEANOUTS ON ALL INDIVIDUAL SINK, LAVATORY, AND WASHER BOX RISERS.
3. DO NOT ROUTE ANY PIPING IN EXTERIOR WALLS UNLESS OTHERWISE INDICATED.
4. EXPOSED PIPING TO BE PAINTED OR LOCATED WITHIN SOFFIT. COORDINATE WITH ARCHITECTURAL.

KEY NOTES

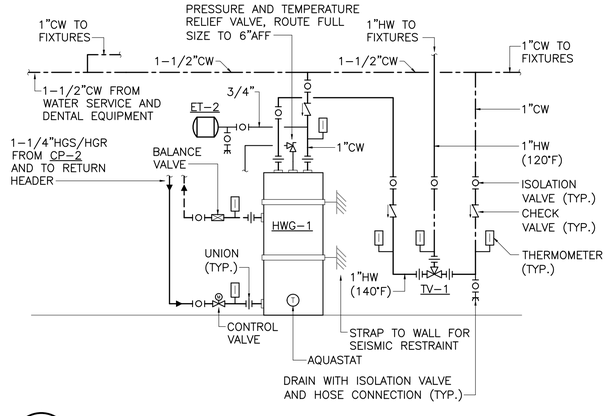
1. 1/2" DENTAL AIR AND 3/4" DENTAL VACUUM DOWN WALL TO DENTAL TERMINATIONS. COORDINATE DENTAL TERMINATIONS, PIPE/TUBE ROUTING, AND INSTALLATION REQUIREMENTS WITH DENTAL EQUIPMENT SUPPLIER.
2. 1/2"CW DOWN TO TRAP PRIMER, SEE 2/M1.2.
3. LOCATE VTR AT HIGH SIDE OF ROOF SLOPE.
4. ENSURE TANK IS A MINIMUM OF 15' FROM NEAREST PROPERTY LINE, 5' FROM NEAREST BUILDING, AND TANK VENT IS A MINIMUM OF 10' FROM OPERABLE OPENINGS AND MECHANICAL INTAKES.
5. 3/4" FOS/FOR CAPPED AT TANK FOR FUTURE CONNECTION TO APARTMENT/GENERATOR BUILDING.
6. 2" VACUUM PUMP VENT FROM DENTAL EQUIPMENT. DO NOT COMBINE VACUUM VENT WITH VENT PIPING SERVING PLUMBING FIXTURES. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR EXACT PIPE SIZE AND INSTALLATION REQUIREMENTS.



2 TRAP PRIMER DETAIL
M1.2 SCALE: NONE



3 VENT THROUGH ROOF DETAIL
M1.2 SCALE: NONE



4 HOT WATER GENERATOR DETAIL
M1.2 SCALE: NONE

N

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TAKOTNA HEALTH CLINIC
TAKOTNA, AK

PLUMBING PLAN AND DETAILS

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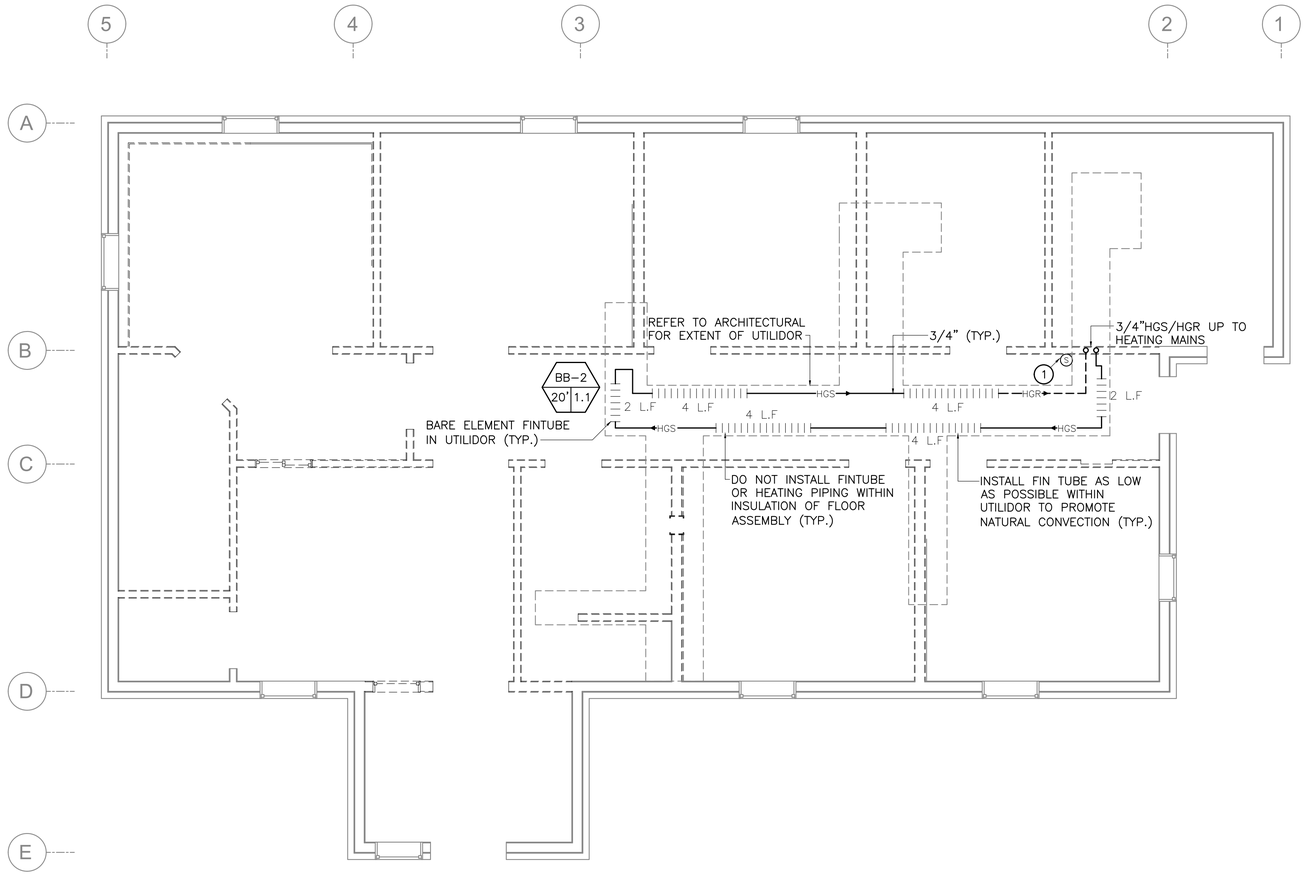


1 UTILIDOR HEATING PLAN

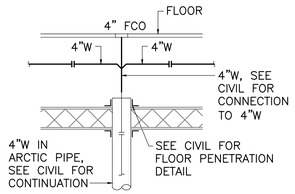
M2.1 SCALE: 1/4" = 1'-0"

SHEET NOTES

1. BRANCH PIPING TO INDIVIDUAL TERMINAL HEATING UNITS SHALL BE 3/4" UNLESS OTHERWISE INDICATED.
2. DO NOT ROUTE ANY PIPING IN EXTERIOR WALL ASSEMBLIES.
3. PROVIDE ACCESS DOORS OF APPROPRIATE SIZE AS REQUIRED TO ALL EQUIPMENT AND VALVES LOCATED BELOW HARD FLOOR ASSEMBLIES OR WITHIN WALLS REQUIRING PERMANENT ACCESS.
4. INSTALL THERMOSTATS/SENSORS ON STRUCTURAL MEMBERS AT APPROXIMATE LOCATIONS INDICATED.

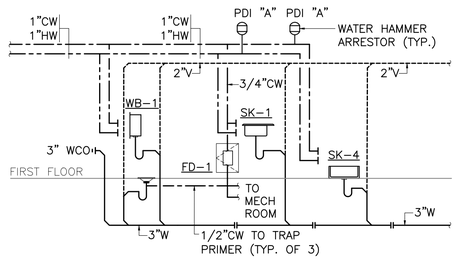
KEY NOTES

(1) TEMPERATURE SENSOR FOR UNDERFLOOR BASEBOARD CONTROL VALVE OPERATION. LOCATE IN UTILIDOR WITH EITHER ACCESS DOOR IN FLOOR ABOVE OR REMOVABLE UTILIDOR ACCESS PANEL BELOW, ATTACH TO STRUCTURAL MEMBER. ENSURE SENSOR IS LOCATED ABOVE ANY INSULATION WITHIN UNDERFLOOR SPACE. UNDERFLOOR SPACE TEMPERATURE SETPOINT SHALL BE USER ADJUSTABLE VIA A REMOTE MOUNTED THERMOSTAT LOCATED IN THE MECHANICAL ROOM.



2 WASTE PIPE DETAIL

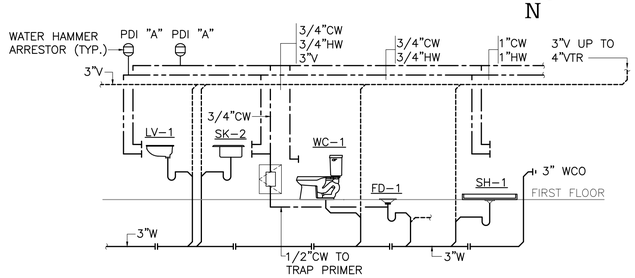
M2.1 SCALE: NONE



PIPING IS TO BE ROUTED EITHER CONCEALED IN WALL OR WITHIN ARCHITECTURAL SOFFIT. PROVIDE ACCESS DOOR IN WALL FOR WATER HAMMER ACCESS.

3 PLUMBING RISER DIAGRAM

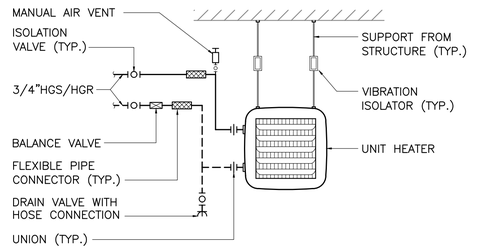
M2.1 SCALE: NONE



PIPING IS TO BE ROUTED EITHER CONCEALED IN WALL OR WITHIN ARCHITECTURAL SOFFIT. PROVIDE ACCESS DOOR IN WALL FOR WATER HAMMER ACCESS.

4 PLUMBING RISER DIAGRAM

M2.1 SCALE: NONE



5 UNIT HEATER DETAIL

M2.1 SCALE: NONE

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TAKOTNA , AK

UTILIDOR HEATING PLAN AND DETAILS

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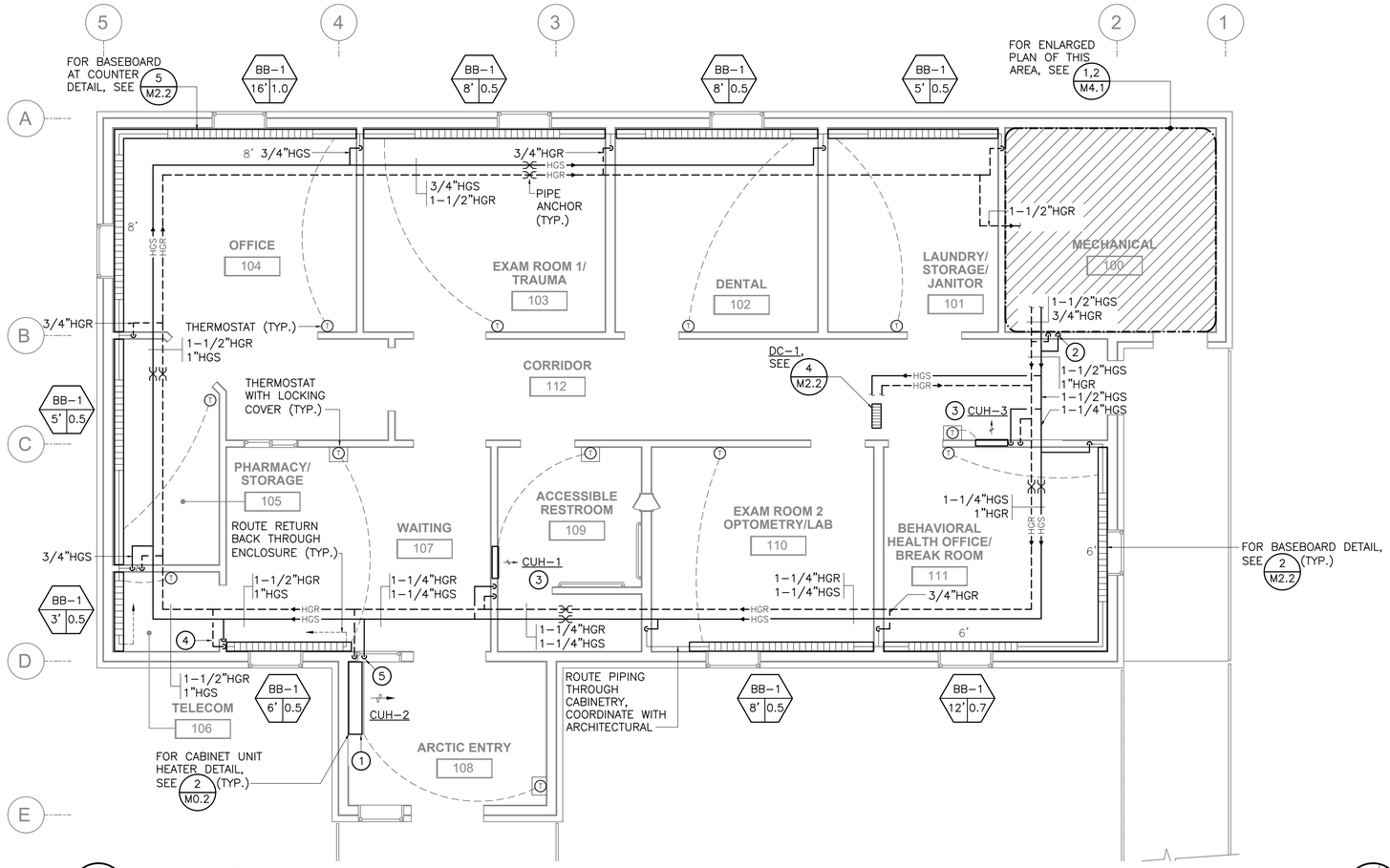


1 M2.2 FIRST FLOOR HEATING PLAN

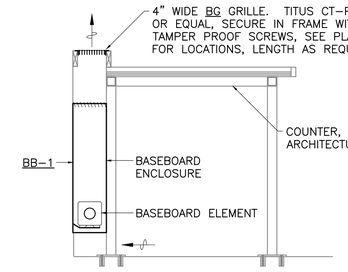
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. BRANCH PIPING TO INDIVIDUAL TERMINAL HEATING UNITS SHALL BE 3/4" UNLESS OTHERWISE INDICATED.
2. DO NOT ROUTE ANY PIPING IN EXTERIOR WALL ASSEMBLIES.
3. PROVIDE ACCESS DOORS OF APPROPRIATE SIZE AS REQUIRED TO ALL EQUIPMENT AND VALVES LOCATED BELOW HARD FLOOR ASSEMBLIES OR WITHIN WALLS REQUIRING PERMANENT ACCESS.
4. EXPOSED PIPING TO BE PAINTED OR LOCATED WITHIN SOFFIT. COORDINATE WITH ARCHITECTURAL.
5. INSTALL THERMOSTATS ON WALLS AT APPROXIMATE LOCATIONS INDICATED AFTER INSTALLATION OF FURNISHINGS. COORDINATE FINAL LOCATION AS REQUIRED SO THAT FURNISHINGS DO NOT COVER OR BLOCK ACCESS TO THERMOSTATS. DO NOT INSTALL ANY THERMOSTATS BEHIND DOORS.
6. COORDINATE PIPE ROUTING WITH DUCTWORK AND OTHER TRADES AS REQUIRED.
7. COORDINATE LOCATIONS WHERE BASEBOARD TERMINATES AT CABINETRY TO ENSURE CABINET ACCESS AND CABINET DOOR SWINGS ARE NOT COMPROMISED.

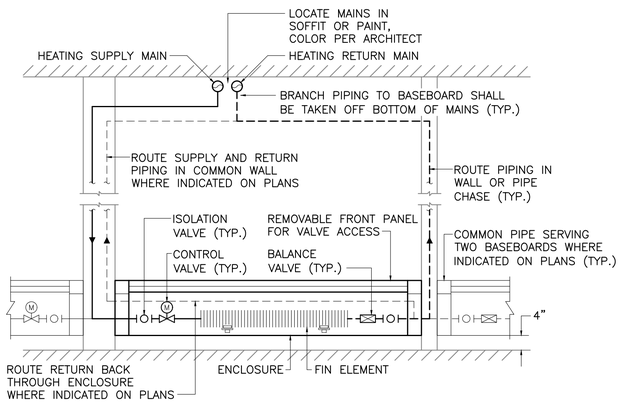
KEY NOTES

1. PROVIDE A DOOR STOP TO PREVENT ANY DOOR FROM CONTACTING THE CABINET UNIT HEATER WHEN DOOR IS OPENED, COORDINATE WITH ARCHITECTURAL.
2. 3/4"HGS/HGR DOWN. PROVIDE CONTROL VALVE, BALANCE VALVE, AND ISOLATION VALVE SIMILAR TO BASEBOARD DETAIL, SEE 2/M2.2. INSTALL ALL VALVES IN CEILING SPACE OF MECH ROOM. BALANCE VALVE TO BE BALANCED TO 1.1 GPM.
3. PROVIDE CONTROL VALVE, BALANCE VALVE AND ISOLATION VALVES SIMILAR TO CABINET UNIT HEATER DETAIL, SEE 2/M0.2. VALVES MAY BE INSTALLED ABOVE CABINET UNIT HEATER IN WALL WITH ACCESS DOOR IF VALVES DO NOT FIT INSIDE CABINET UNIT HEATER. COORDINATE FINAL CABINET UNIT LOCATION WITH ARCHITECTURAL AND INTERIOR ELEVATIONS.
4. ROUTE PIPING DOWN TO BASEBOARD WITHIN INTERIOR PARTITION, NOT IN EXTERIOR WALL ASSEMBLY.
5. ROUTE PIPING DOWN TO CABINET UNIT HEATER WITHIN INTERIOR PARTITION, NOT IN EXTERIOR WALL ASSEMBLY.



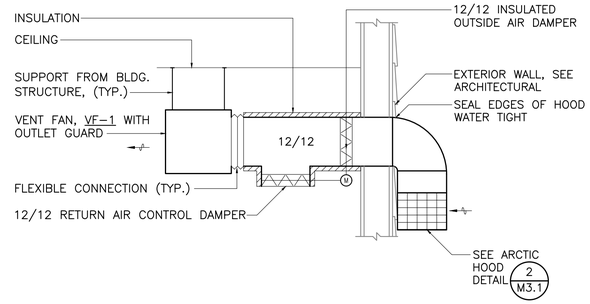
5 M2.2 BASEBOARD AT COUNTER DETAIL

SCALE: NONE



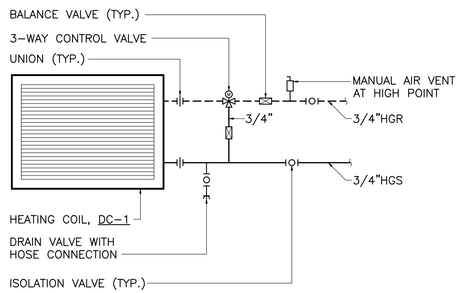
2 M2.2 BASEBOARD DETAIL

SCALE: NONE



3 M2.2 VENT FAN DETAIL

SCALE: NONE



4 M2.2 DUCT COIL DETAIL

SCALE: NONE

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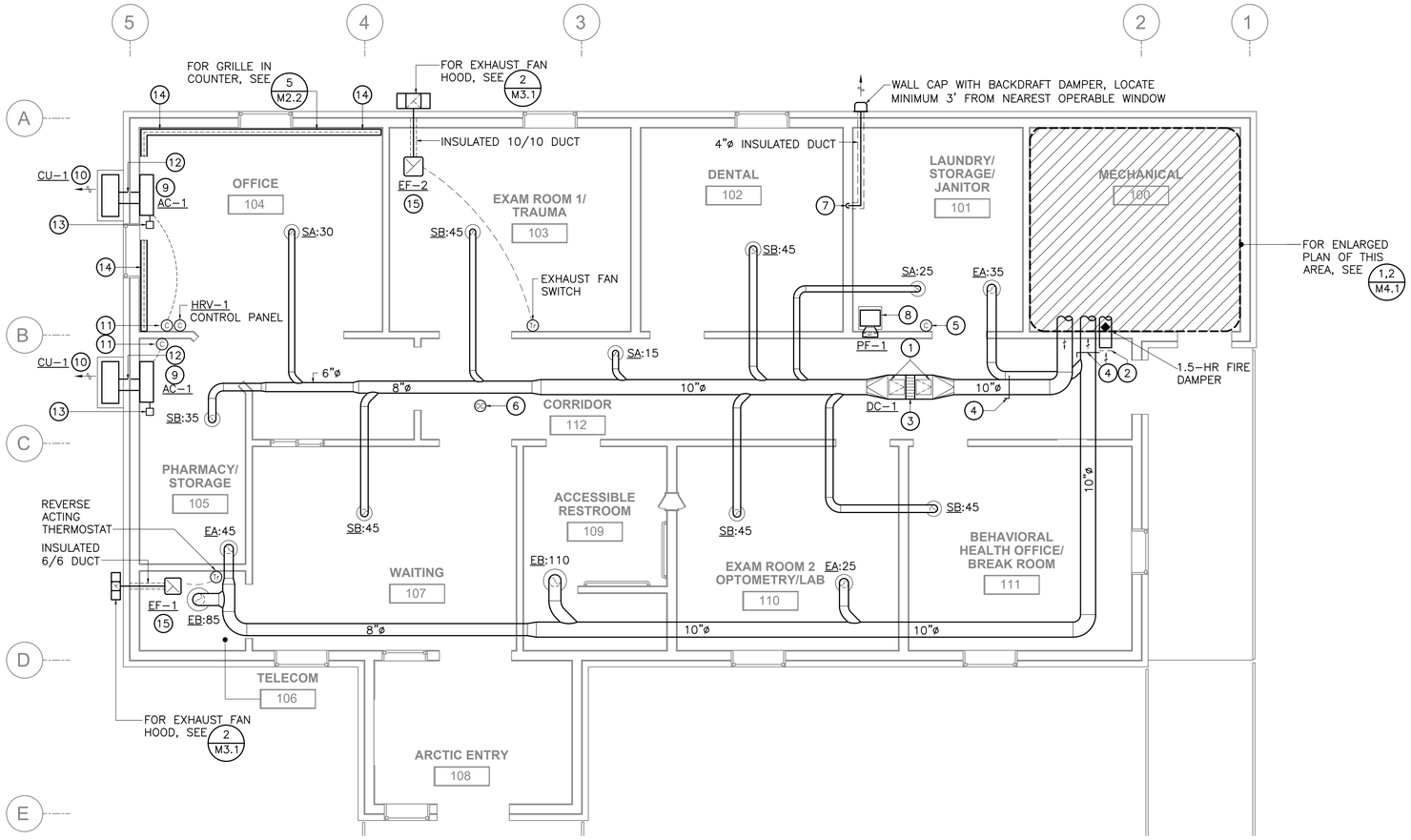


SHEET NOTES

1. BRANCH DUCTWORK TO INDIVIDUAL DIFFUSERS SHALL EQUAL THE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED.
2. COORDINATE FINAL DIFFUSER AND GRILLE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND LIGHTING.
3. PROVIDE ACCESS DOORS AS REQUIRED FOR EQUIPMENT ACCESS.
4. COORDINATE DUCT ROUTING WITH LIGHTING, STRUCTURAL, AND PIPING TO AVOID CONFLICTS.
5. EXPOSED DUCTWORK TO BE PAINTED OR LOCATED WITHIN SOFFIT. COORDINATE WITH ARCHITECTURAL.

KEY NOTES

(1) MINIMUM 10/10 DUCT ACCESS DOORS FOR COIL CLEANING. PROVIDE DUCTWORK, SAME SIZE AS COIL FACE, BEFORE AND AFTER COIL AS REQUIRED FOR ACCESS DOOR MOUNTING.

(2) PROVIDE SCREEN ON 8"ø DEFROST DUCT LOCATED ABOVE HALLWAY CEILING.

(3) DC-1, SEE 4/M2.2.

(4) BALANCE DAMPER.

(5) PF-1 WALL SWITCH, ILLUMINATE WHEN ACTIVE. PROVIDE WITH LABEL AND COVER TO PREVENT UNWANTED TAMPERING.

(6) OCCUPANCY SENSOR AT HALLWAY CEILING FOR HRV OPERATION, COORDINATE WITH ELECTRICAL.

(7) 4"ø DRYER DUCT TO DRYER, CONNECT PER DRYER MANUFACTURER'S INSTALLATION REQUIREMENTS. ENSURE INSTALLED DRYER IS CAPABLE OF HANDLING THE LENGTH OF INSTALLED EXHAUST DUCT, WITH PROPER LENGTH ADDED FOR NUMBER OF EXPECTED DUCT ELBOWS. PROVIDE A PERMANENT LABEL BY THE DRYER CONNECTION INDICATING THE TOTAL EQUIVALENT INSTALLED DUCT LENGTH PER IMC 504.6.5. DO NOT INSTALL ANY DAMPERS WITHIN THE DRYER DUCT.

(8) MOUNT FAN FROM CEILING WITH 3/10 DUCT DOWN THROUGH WALL INTO UTILIDOR.

(9) INSTALL AC-1 UNIT HIGH ON WALL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

(10) INSTALL CU-1 UNIT ON EXTERIOR WALL SUCH THAT BOTTOM OF UNIT IS AT LEAST 8' ABOVE GRADE. INSTALL UNIT WITH REQUIRED CLEARANCES, VIBRATION ISOLATORS, AND OTHER APPURTENANCES AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD FABRICATE OR PROVIDE PRE-MANUFACTURERED SUPPORT BRACKETS FOR ATTACHING UNIT TO EXTERIOR WALL. ENSURE SUFFICIENT BACKING IS PROVIDED FOR ATTACHING UNIT SUPPORTS TO WALL. ENSURE SUFFICIENT AIR SPACE IS PROVIDED BETWEEN UNIT'S AIR INTAKE AND EXTERIOR WALL SURFACE AS INDICATED BY MANUFACTURER.

(11) WIRED CONTROLLER FOR AC-1 SYSTEM OPERATION CONTROL, INSTALL AT 48" AFF, COORDINATE LOCATION WITH FURNITURE/EQUIPMENT AS REQUIRED.

(12) SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(13) MOUNT CONDENSATE PUMP ON WALL ADJACENT TO AC-1 AND ROUTE DISCHARGE TUBING THRU SOFFIT, OR ABOVE HEATING PIPING IF NO SOFFIT PRESENT, TO JANITOR SINK FOR INDIRECT DISCHARGE INTO SINK WITH 1" AIR GAP.

(14) BG GRILLE IN ARCHITECTURAL COUNTER TO ALLOW BASEBOARD HEAT TO TRANSFER UP THROUGH OBSTRUCTION. COORDINATE WITH ARCHITECTURAL AS REQUIRED FOR NECESSARY GRILLE LENGTH AND FRAMING.

(15) SUPPORT FAN FROM CEILING WITH VIBRATION ISOLATORS. PROVIDE FLEX DUCT BETWEEN FAN OUTLET AND DUCT.

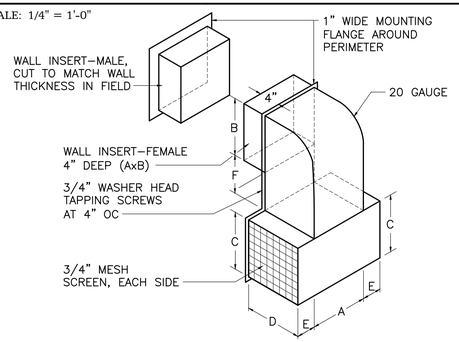
N

1 VENTILATION PLAN

M3.1 SCALE: 1/4" = 1'-0"

2 ARCTIC HOOD DETAIL

M3.1 SCALE: NONE

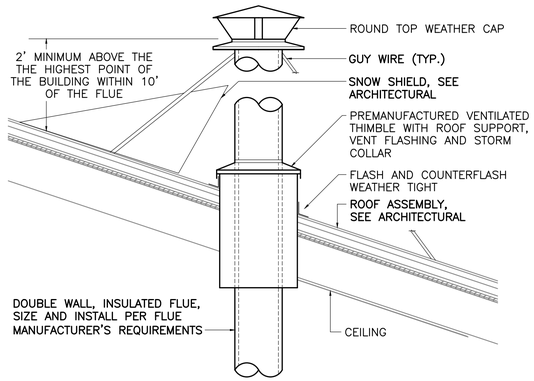


LOCATION	SERVICE	A	B	C	D	E	F
WEST SIDE	HRV INTAKE	14"	8"	14"	8"	6"	8"
SOUTH SIDE	HRV EXHAUST	14"	8"	N/A*	8"	N/A*	8"
SOUTH SIDE	C/A INTAKE	12"	8"	12"	8"	6"	8"
SOUTH SIDE	VF-1	12"	12"	12"	12"	6"	**
EAST SIDE	EF-1	6"	6"	6"	6"	6"	8"
SOUTH SIDE	EF-2	10"	10"	10"	10"	6"	8"

* ARCTIC TEE NOT REQUIRED, TERMINATE WITH DOWN DISCHARGE
** LENGTH AS REQUIRED TO LOCATE VF-1 INTAKE 3' BELOW C/A INTAKE

3 BOILER FLUE DETAIL

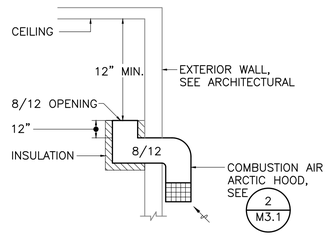
M3.1 SCALE: NONE



NOTE: EACH FLUE SERVING AN OIL FIRED APPLIANCE SHALL BE EQUIPPED WITH A BAROMETRIC DAMPER AND INSTALLED IN ACCORDANCE WITH THE OIL FIRED APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

4 COMBUSTION AIR DETAIL

M3.1 SCALE: NONE



100% DRAWING SET

STATE OF ALASKA 49TH
Timothy C Hickman
ME-14669
07/31/20
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

NO	DATE	BY	REVISION

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA , AK

VENTILATION PLAN AND DETAILS

SHEET SIZE:	34x22
DESIGNED BY:	PJB
DRAWN BY:	PJB
CHECKED BY:	TCH
DATE:	7/31/2020
FILE NO.	2020.025.0

SHEET NUMBER
M3.1 OF 8M

1" ONE INCH

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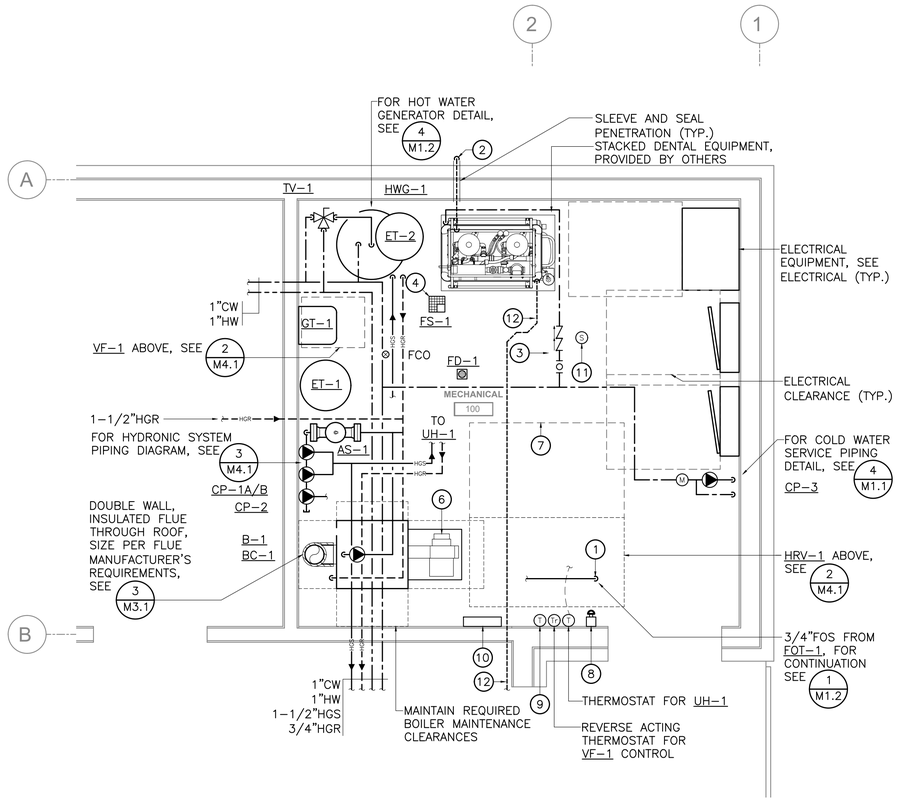
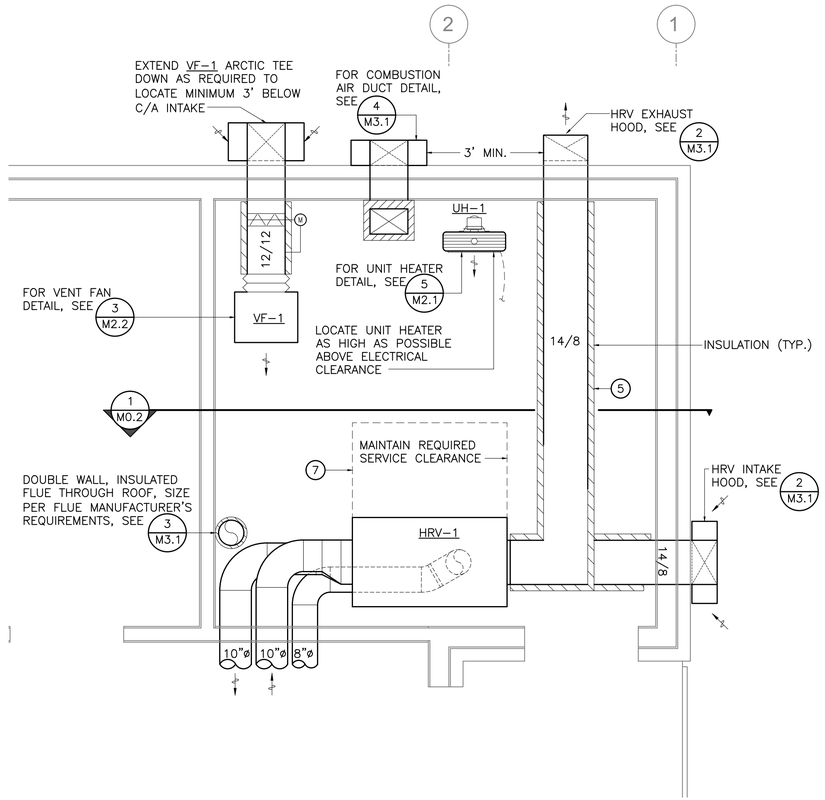




SHEET NOTES

1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE REQUIRED BY THE PLUMBING FIXTURES SCHEDULE UNLESS OTHERWISE INDICATED.
2. DO NOT ROUTE ANY PIPING IN EXTERIOR WALLS UNLESS OTHERWISE INDICATED.
3. BRANCH PIPING TO INDIVIDUAL TERMINAL HEATING UNITS SHALL BE 3/4" UNLESS OTHERWISE INDICATED.
4. PROVIDE ACCESS DOORS OF APPROPRIATE SIZE AS REQUIRED TO ALL EQUIPMENT AND VALVES LOCATED WITHIN WALLS REQUIRING PERMANENT ACCESS.
5. INSTALL THERMOSTATS/SENSORS ON WALLS AT APPROXIMATE LOCATIONS INDICATED. DO NOT INSTALL THERMOSTATS/SENSORS BEHIND EQUIPMENT.
6. PROVIDE LABELING AT THE HOT WATER GENERATOR AS REQUIRED PER SECTION 505.4.1 (3) OF THE 2012 UPC.
7. EXPOSED DUCTWORK/PIPING TO BE PAINTED OR LOCATED WITHIN SOFFIT. COORDINATE WITH ARCHITECTURAL.

KEY NOTES

(1) 3/4"FOS TO BOILER. ROUTE PIPING ALONG WALL TO BOILER, SHOWN OFFSET FOR CLARITY. SLEEVE AND SEAL PENETRATION THROUGH FLOOR.

(2) AIR COMPRESSOR INTAKE. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR SIZE AND INSTALLATION REQUIREMENTS. ENSURE MINIMUM 3' SEPARATION FROM ANY MECHANICAL EXHAUST TERMINATION.

(3) 1/2"CW TO DENTAL EQUIPMENT WITH ISOLATION VALVE AND RPZ BACKFLOW PREVENTION DEVICE, WATTS 009–QT OR EQUAL.

(4) COORDINATE EXACT LOCATION OF FLOOR SINK WITH DENTAL EQUIPMENT AS REQUIRED TO ACCOMMODATE EQUIPMENT DRAINS, COORDINATE WITH DENTAL EQUIPMENT SUPPLIER.

(5) ROUTE DUCTWORK AS CLOSE TO STRUCTURE AS POSSIBLE AND AS REQUIRED TO AVOID ELECTRICAL PANEL CLEARANCES.

(6) FOR FUEL CONNECTION AT BURNER DETAIL, SEE 3/M1.1.

(7) PROVIDE MINIMUM OF 30" CLEARANCE AT HRV SIDE FOR MAINTENANCE ACCESS.

(8) EMERGENCY BOILER SHUTDOWN SWITCH, INSTALL PER ASME CSD–1. PROVIDE TAMPER RESISTANT SWITCH TYPE.

(9) REMOTE MOUNTED, USER ADJUSTABLE SETPOINT THERMOSTAT FOR UTILIDOR BASEBOARD CONTROL, SEE 1/M2.1. PROVIDE LABEL ABOVE THERMOSTAT INDICATING SERVICE AREA.

(10) BOILER CONTROL PANEL.

(11) OUTSIDE AIR TEMPERATURE SENSOR, LOCATE UNDERNEATH BUILDING ATTACHED TO EXTERIOR FLOOR ASSEMBLY SOFFIT. ENSURE SENSOR IS NOT PLACED WITHIN DIRECT SUNLIGHT.

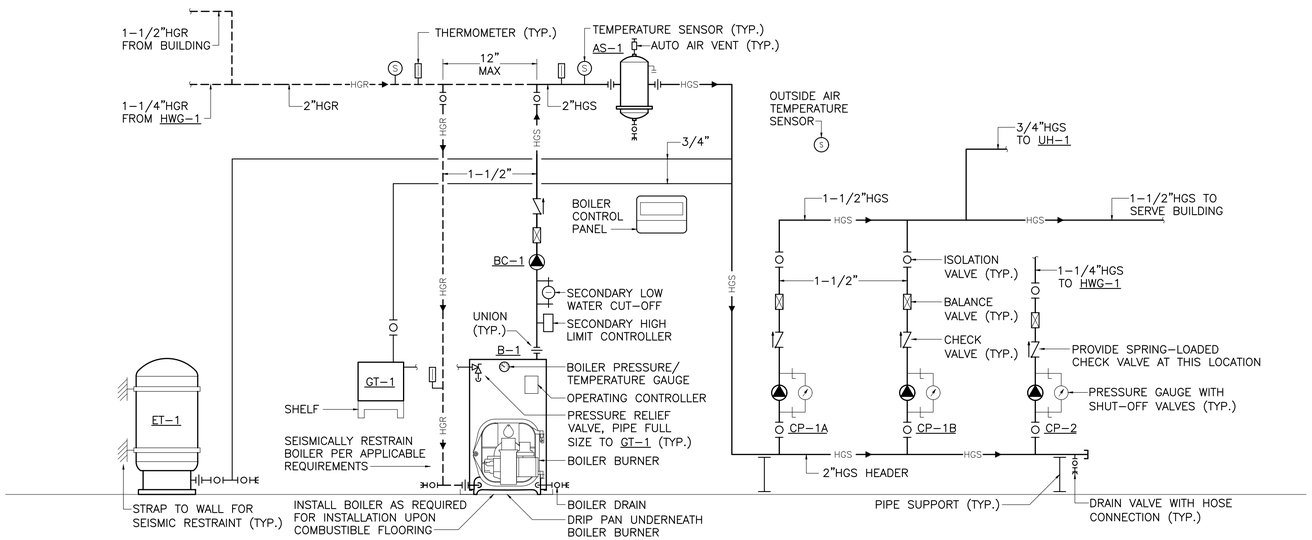
(12) 2" VACUUM PUMP VENT. DO NOT COMBINE VACUUM VENT WITH VENT PIPING SERVING PLUMBING FIXTURES. COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR EXACT PIPE SIZE AND INSTALLATION REQUIREMENTS. ROUTE TO NORTH SIDE OF BUILDING TO TERMINATE VTR AT HIGH POINT OF ROOF SLOPE.

1 M4.1 LOWER LEVEL MECHANICAL ROOM PLAN

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

2 M4.1 UPPER LEVEL MECHANICAL ROOM PLAN

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



3 M4.1 HYDRONIC SYSTEM PIPING DIAGRAM

SCALE: NONE

100% DRAWING SET

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1" ONE INCH

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SOUTHCENTRAL FOUNDATION

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ENLARGED MECHANICAL ROOM PLAN AND BOILER PIPING DIAGRAM

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MOUNTING HEIGHT SCHEDULE

PANELBOARDS (TOP)	70"
SPECIAL SYSTEM PANELS (TOP)	66"
POWER METER BASE (CENTER LINE OF SOCKET)	66"
CONTACTORS, MOTOR STARTERS, DISCONNECT SWITCHES (TOP)	66"
RECEPTACLES (UNLESS OTHERWISE NOTED)	18" SEE NOTES
ABOVE COUNTER DEVICES (DENOTED "AC")	SEE NOTES
WALL MOUNTED SWITCHES	46"
TELECOMMUNICATION OUTLETS (UNLESS OTHERWISE NOTED)	18"
HORNS/STROBES/HORN STROBES	80" TO BOTTOM
PULL STATIONS, PUSH BUTTONS	46"

NOTES:
COORDINATE AND INSTALL ALL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL PLANS AND ANY SPECIFICALLY DENOTED REQUIREMENTS.

MOUNTED HEIGHTS SHALL PREVAIL UNLESS OTHERWISE NOTED OR FIELD CONDITIONS REQUIRE DEVIATION.

MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.

COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS DENOTED AS ABOVE COUNTER TO BE INSTALLED 6" ABOVE COUNTERS OR BACKSPLASHES, WHICHEVER IS HIGHER. "AC"

COORDINATE AND INSTALL ALL EQUIPMENT AND DEVICES RELATED TO DENTAL, PER DENTAL PLANS.

COORDINATE MOUNTING HEIGHTS OF POWER AND TELECOMMUNICATION DEVICES WITH MECHANICAL BASEBOARD. WHERE LOCATED ABOVE BASEBOARD, RAISE DEVICES TO HEIGHT WHERE THE DEVICE COVER PLATES WILL CLEAR THE BASEBOARD

ELECTRICAL SYMBOLS LEGEND

	LIGHT FIXTURE – SURFACE WALL MOUNTED		PANEL
	LED FIXTURE – 4' SURFACE/WALL/PENDANT MNTD		DUPLEX RECEPTACLE
	LED STRIP FIXTURE – SURFACE MOUNTED		GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
	LIGHT FIXTURE – WALL MOUNTED		QUADRAPLEX RECEPTACLE
	EXIT LIGHT – CEILING MOUNTED	A–1 A–3	CAPITAL LETTER AND # INDICATES SUPPLY PANEL AND BRANCH CIRCUIT, UNLESS OTHERWISE NOTED 1/2" CONDUIT AND 3#12 AWG
	EXIT LIGHT – WALL MOUNTED		SPECIAL PURPOSE RECEPTACLE
$	SINGLE POLE SWITCH		JUNCTION BOX
$a a	LOWER CASE LETTER INDICATES SWITCHING CONTROL REQUIREMENTS PER ROOM, AREA OR ZONE. REFER TO LIGHTING CONTROL SCHEDULE FOR REQUIREMENTS		DISCONNECT SWITCH
$3 $4	THREE WAY SWITCH AND FOUR WAY SWITCH		FUSED DISCONNECT SWITCH
$P	PILOT LIGHT SWITCH	$F	FRACTIONAL HP MOTOR SWITCH
$D	SWITCH WITH DIMMING CONTROLS		MOTOR
	SELF–CONTAINED EMERGENCY LIGHT		TELECOMMUNICATION OUTLET
	REMOTE HEAD ASSOCIATED W/ EMERGENCY LIGHT	S	FA SMOKE DETECTOR
WP	WEATHERPROOF	135°F	FA HEAT DETECTOR (FIXED TEMP. NOTED)
WR	WEATHER RESISTANT		FA HORN STROBE
FACP	FIRE ALARM CONTROL PANEL		FA MANUAL PULL STATION
AC	ABOVE COUNTER – REFERENCE MOUNTING HEIGHT SCHEDULE ON THIS SHEET		STROBE
GFCB	TO BE PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKER	TV	TELEVISION OUTLET
		D	DOOR CONTACTOR FOR SECURITY SYSTEM
WIFI	WIRELESS ACCESS ROUTER	MS	SECURITY SYSTEM MOTION DETECTOR
IDS	INTRUSION DETECTION SYSTEM PANEL		SECURITY ALARM SIREN
EM	FIXTURE WITH EMERGENCY BATTERY BACK UP	KP	INTRUSION DETECTION SYSTEM KEY PAD
CLG	CEILING MOUNTED	OS	OCCUPANCY SENSOR SEE LIGHTING CONTROL SCHEDULE
X	NOTE TAG (No. INDICATES NOTE)		EMERGENCY SHUTDOWN SWITCH
X	FIXTURE IDENTIFICATION (LETTER INDICATES TYPE)		

LIGHTING CONTROL SCHEDULE

OS $OS	PROVIDE WALL OR CEILING MOUNT OCCUPANCY SENSOR CONTROLS TO BE USED IN CONJUNCTION WITH MANUAL OVERRIDE "ON/OFF" (WHERE SHOWN). CONTROLS ARE TO BE OF A TYPE, QUANTITY, AND LOCATED AS APPROPRIATE FOR COVERAGE AS REQUIRED.
$ $3 $4	MANUAL "ON/OFF" WALL MOUNT SWITCH CONTROLS (LINE OR LOW VOLTAGE AS APPROPRIATE) TO BE USED IN CONJUNCTION WITH AUTOMATIC LIGHTING CONTROLS WHERE INDICATED ON THE DRAWINGS.
$D	PROVIDE WALL MOUNT "ON/OFF" DIMMING CONTROLS (LINE OR LOW VOLTAGE AS APPROPRIATE). CONTROLS ARE TO BE OF A TYPE, QUANTITY AND LOCATED AS APPROPRIATE FOR CONTROL AS REQUIRED.
a,b	LOWER CASE LETTER ADJACENT TO SWITCH, OCCUPANCY SENSOR, OR LIGHT FIXTURE INDICATES LIGHTING CONTROL ZONES.
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING VENDOR DESIGN, LAYOUT, PROGRAMMING, AND STARTUP AS NECESSARY FOR LIGHTING CONTROLS AS INDICATED AND INTENDED FOR PROPER OPERATION. LIGHTING CONTROLS SHALL BE SELECTED, PROVIDED, CONNECTED, AND PROGRAMMED TO PROVIDE ADEQUATE CONTROL AND COVERAGE OF THE SPACES CONTROLLED.	

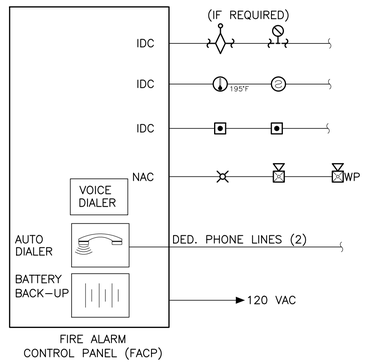
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL NUMBER	DESCRIPTION	LAMP TYPE	LAMP LUMENS	MOUNTING TYPE	MOUNTING HEIGHT
A	MARK LIGHTING #S4LID–LCB–4FT–MSL4–80CRI–35K–600LMF–I80CRI–I35K–I600LMF–MIN1–SCT–MVOLT–WHT–(E10WLCP)–F2/XX–XXCY –SLOPED CEILING MOUNTING	4' DIRECT/INDIRECT PENDANT FIXTURE WITH MULTI–VOLT INPUT, WHITE FINISH, 3500K COLOR TEMPERATURE, AND DIMMING DRIVER. PROVIDE WITH 1250 LUMEN EMERGENCY BATTERY BACK–UP WHERE SHOWN. PROVIDE WITH MOUNTING TYPE (SLOPED HARD CEILING) AND LENGTHS AS APPROPRIATE FOR EACH LOCATION. COORDINATE WITH ARCHITECTURAL DRAWINGS SUSPENSION LENGTHS	41W LED	2,707 DIRECT/ 2,573 INDIRECT	PENDANT	8' COORD. WITH ARCHITECT
B	MARK LIGHTING #S4LWID–LCB–4FT–MSL4–80CRI–35K–800LMF–I80CRI–I35K–I600LMF–MIN1–SCT–MVOLT–WHT–(E10WLCP)	4' DIRECT/INDIRECT WALL MOUNT FIXTURE WITH MULTI–VOLT INPUT, WHITE FINISH, 800 LUMENS PER FOOT DIRECT/600 LUMENS PER FOOT INDIRECT, 3500K COLOR TEMPERATURE, AND DIMMING DRIVER. PROVIDE WITH 1250 LUMEN EMERGENCY BATTERY BACK–UP WHERE SHOWN.	49W LED	3,398 DIRECT/ 2,567 INDIRECT	SURFACE	WALL
C	LITHONIA #BLWP4–100L–ADP–EZ1–LP835–(E10WLCP)	4' LOW PROFILE FIXTURE WITH MULTI–VOLT INPUT, WHITE FINISH, AND DIMMING DRIVER. PROVIDE WITH 10W EMERGENCY BATTERY BACK–UP WHERE SHOWN.	85W LED	9,645	SURFACE	CEILING
D	LITHONIA #ZL1N–L48–5000LM–FST–MVOLT–35K–80CRI–WH–(WGZ48)–(E7W)	4' LED STRIPLIGHT FIXTURE WITH FROSTED DIFFUSER, WHITE FINISH, 5000 LUMEN PACKAGE, AND MULTI–VOLT INPUT. PROVIDE WITH WIREGUARD IN MECHANICAL ROOM, MOUNTING ACCESSORIES AS REQUIRED, AND PROVIDE 7W EMERGENCY BATTERY BACK–UP WHERE SHOWN.	34W LED	4,515	SURFACE/ PENDANT	CEILING
E	LITHONIA #WL4–40L–EZ1–LP835	4' LED WALL BRACKET FIXTURE WITH LINEAR FACETED REFRACTOR, 3500K COLOR TEMPERATURE, MULTI–VOLT DRIVER, 82 CRI, AND WHITE FINISH.	40W LED	4,124	SURFACE	ABOVE MIRROR
F	LITHONIA #DSXW1–LED–10C–530–40K–T3M–MVOLT–BBW–PE(120)–DNATXD	LED WALL MOUNTED FIXTURE WITH WET LOCATION LISTING, FULL CUTOFF TYPE 3 MEDIUM DISTRIBUTION, MULTI–VOLT OPERATION, TEXTURED NATURAL ALUMINUM FINISH, INTEGRAL SURFACE MOUNTED BACK BOX, INTEGRAL PHOTOCELL, –40°F RATED.	20W LED	2,159	WALL	REFERENCE ARCH. ELEVATIONS
	LITHONIA #LQMSW3G–120/277–EL N	SELF CONTAINED EMERGENCY EXIT SIGN WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY. PROVIDE WITH MOUNTING, QUANTITY OF FACES, & DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.	LED	–	SURFACE	WALL/ CEILING
	LITHONIA #ELM4L–UVOLT–LTP–HO	SELF CONTAINED EMERGENCY LIGHTING UNIT WITH MAINTENANCE FREE HIGH OUTPUT LITHIUM IRON PHOSPHATE BATTERY, 120/277V INPUT, 22W (9.6V) OUTPUT FOR CONNECTION TO REMOTE EMERGENCY HEADS, AND MOUNTING AS NECESSARY.	(2) 9.6V 6.6W LED	–	WALL/ CEILING	7.5' (VERIFY)
	LITHONIA #ELM4L–UVOLT–LTP–EHO	SELF CONTAINED EMERGENCY LIGHTING UNIT WITH MAINTENANCE FREE LITHIUM EXTRA HIGH OUTPUT IRON PHOSPHATE BATTERY, 120/277V INPUT, 32W (12.8V) OUTPUT FOR CONNECTION TO REMOTE EMERGENCY HEADS, AND MOUNTING AS NECESSARY.	(2) 12.6V 6.6W LED	–	WALL/ CEILING	7.5' (VERIFY)
R	LITHONIA #AFF–OELR–DNAXD–FCT	REMOTE EMERGENCY EXTERIOR FLOODLIGHT (8–30V), WITH SINGLE HEAD, FIELD CONFIGURABLE THROW (PRE–CONFIGURED TO WIDE THROW), WET LOCATION LISTING, –40°F TEMPERATURE RATING, AND FULLY GASKETED.	8–30V 8.22W LED	–	WALL	7.5' (VERIFY)

NOTES TO LIGHTING FIXTURE SCHEDULE:
1. CATALOG NUMBERS ARE FOR GENERAL REFERENCE AND ARE NOT INCLUSIVE OF ALL OPTIONS OR REQUIREMENTS DENOTED ON PLANS AND SPECIFICATIONS.
2. ALL LIGHT FIXTURE LOCATIONS ARE DIAGRAMMATIC IN NATURE, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.

GENERAL NOTES

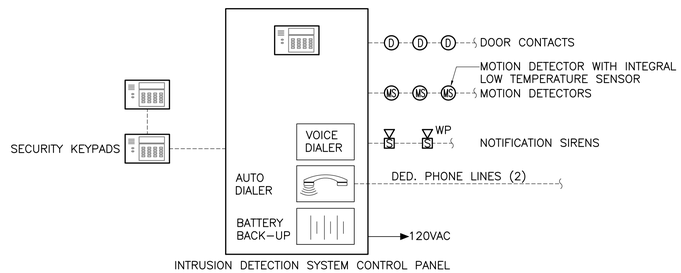
1. ALL BRANCH CIRCUITRY (SUPPLYING RECEPTACLES, LIGHTS, LIGHT SWITCHES, DEVICES, EQUIPMENT, ETC.), SERVING "PATIENT CARE SPACES", AS DEFINED BY NEC 517 (EXAM ROOMS, DENTAL ROOMS, LABORATORIES, STERILE SUPPLY, SUPPORT SPACES, WAITING ROOMS, ETC.) SHALL BE OF A TYPE LISTED FOR A REDUNDANT GROUNDING PATH (WIRING WITH A COPPER EQUIPMENT GROUNDING CONDUCTOR RUN IN A METALLIC CONDUIT THAT COMPLIES WITH THE LISTING REQUIREMENTS OF NEC 250.118) BACK TO THE SOURCE ELECTRICAL PANEL AS REQUIRED BY NEC 517.
2. ELECTRICAL PENETRATIONS THROUGH THE FLOOR ARE TO BE AVOIDED. ANY REQUIRED PENETRATIONS THROUGH THE FLOOR WILL HAVE TO BE APPROVED BY THE ARCHITECT.
3. COORDINATE EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL ITEMS PRIOR TO ROUGH–IN. PROVIDE ALL REQUIRED CONTROLS AND CONNECTIONS AS NEEDED FOR FULLY OPERATIONAL SYSTEMS, AND THE INTENDED OPERATION AS INDICATED BY MECHANICAL SEQUENCE OF OPERATIONS.
4. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT NEC REQUIRED WORKING CLEARANCES AND SPACES AROUND ALL ELECTRICAL EQUIPMENT, PANELS, DISCONNECTS, MOTOR STARTERS, VFD'S, ETC. ARE MAINTAINED AND ARE NOT AFFECTED BY THE WORK PROVIDED AS PART OF THIS PROJECT. WHERE NECESSARY, PROVIDE STRUCTURAL CHANNEL (UNISTRUT) SUPPORT FOR INSTALLATION.
5. COORDINATE EXACT HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL, MECHANICAL, FURNITURE, DENTAL, AND EQUIPMENT DRAWINGS PRIOR TO ROUGH–IN. LOCATE DEVICES ABOVE MECHANICAL BASEBOARD HEATING UNITS.
6. GFCI RECEPTACLES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION PER NEC 210.8. IF NOT POSSIBLE, PROVIDE CIRCUITS SUPPLIED BY A 5mA GFCI CIRCUIT BREAKER.
7. SIZE CONDUCTORS TO PROVIDE MAXIMUM VOLTAGE DROP NOT TO EXCEED 3% IN BRANCH CIRCUITS OR FEEDERS. IN GENERAL, FOR A 20 AMP 120V CIRCUIT, MINIMUM WIRE SIZE SHALL BE #12 (CU.) FOR BRANCH CIRCUITS LESS THAN 75', #10 (CU.) FOR CIRCUITS 75' TO 125' AND #8 (CU.) FOR CIRCUITS 125 TO 200'.
8. PROVIDE SEISMIC BRACING AND SUPPORT FOR ALL ELECTRICAL EQUIPMENT WHERE REQUIRED BY THE IBC AND OTHER APPLICABLE CODES.
9. ALL REQUIRED FIRE ALARM DEVICES MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESIGN OF FIRE ALARM AND DETECTION SYSTEMS FOR FULL DETECTION COVERAGE. PROVIDE ALL NECESSARY DEVICES, WIRING, ETC. AS REQUIRED FOR COMPLIANCE WITH GOVERNING CODES INCLUDING DETECTORS THAT MAY NOT BE SHOWN.



DETAIL NOTES:

1. REFERENCE DRAWINGS AND SPECIFICATIONS FOR PROPOSED QUANTITY, LOCATION OF DEVICES AND ADDITIONAL REQUIREMENTS. PROVIDE NUMBER OF INITIATING (IDC), NOTIFICATION (NAC) AND SUPERVISORY (SC) LOOPS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE FIRE ALARM DESIGN FOR FULL DETECTION COVERAGE IN COMPLIANCE WITH GOVERNING CODES INCLUDING ANY NECESSARY DEVICES AND DETECTORS NOT SHOWN IN THESE DRAWINGS.
2. PROVIDE ALL NECESSARY AUXILIARY CONTACTS, CONNECTIONS, ETC. TO PROVIDE A COMPLETE SYSTEM.

1 E0.1 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NTS



DETAIL NOTES:

1. REFERENCE SPECIFICATIONS FOR ALL REQUIREMENTS.
2. SEE PLANS FOR PROPOSED QUANTITY AND LOCATION OF DEVICES.
3. INSTALL TEMPERATURE SENSORS AND ANY CONTROLLERS IN LOCATIONS AS APPROPRIATE. CONNECT ALARM CONTACTS TO INTRUSION DETECTION SYSTEM FOR DIAL OUT ANNUNCIATION OF LOW TEMPERATURE CONDITION.

2 E0.1 INTRUSION DETECTION SYSTEM
SCALE: NO SCALE

100% DRAWING SET

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Brett A. Bingham
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REGISTERED PROFESSIONAL ENGINEER
07/31/20

1" ONE INCH

NO	DATE	BY	REVISION

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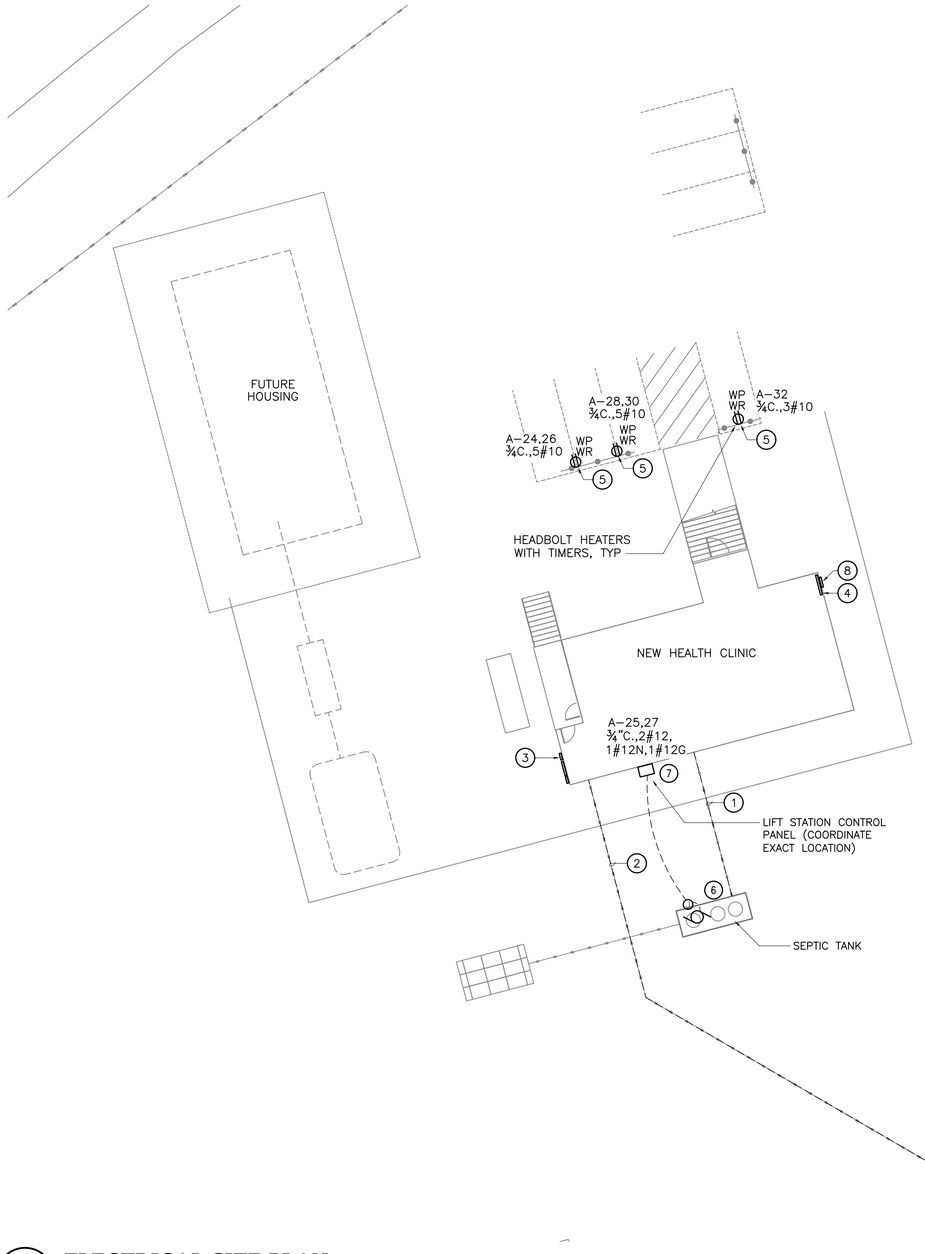
TAKOTNA, AK

LEGEND, FIXTURE SCHEDULE, DIAGRAMS

SHEET SIZE:	34x22
DESIGNED BY:	
DRAWN BY:	JWA
CHECKED BY:	BAB
DATE:	7/31/2020
FILE NO.	2020.025.0
SHEET NUMBER	
E0.1	OF 7

1" ONE INCH



1 E1.1 ELECTRICAL SITE PLAN

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

SHEET NOTES

INDICATED BY: (#)

1. APPROXIMATE ROUTING OF HEAT TRACE IN SEWER LINE ARCTIC PIPING ASSEMBLY. SEE CIVIL DRAWINGS FOR EXACT LOCATIONS, ROUTING, DISTANCES, ETC.
2. APPROXIMATE ROUTING OF HEAT TRACE IN WATER LINE ARCTIC PIPING ASSEMBLY. SEE CIVIL DRAWINGS FOR EXACT LOCATIONS, ROUTING, DISTANCES, ETC.
3. PROPOSED LOCATION FOR ELECTRICAL SERVICE ENTRANCE EQUIPMENT. CONTRACTOR TO COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SERVING UTILITY. ELECTRICAL SERVICE IS TO COMPLY WITH REQUIREMENTS OF SERVING UTILITY.
4. APPROXIMATE LOCATION OF TELECOMMUNICATION BACKBOARD. BACKBOARD SHALL COMPLY WITH UTILITY REQUIREMENTS.
5. INTELLIGENT HEAD BOLT OUTLET (IPLC M210TN OR EQUAL), WITH 20 AMP 120V WEATHER RESISTANT DUPLEX RECEPTACLE. PROVIDE WITH WEATHERPROOF WHILE–IN–USE COVER. RECEPTACLE IS TO BE SPLIT WIRED WHERE SHOWN FED WITH 2 CIRCUITS. MOUNT TO BULLRAIL. EACH CIRCUIT IS TO BE FED FROM AND PROTECTED BY A 5mA GFCI CIRCUIT BREAKER.
6. LIFT STATION TANK AND SIMPLEX PUMP. COORDINATE WITH CIVIL AND EQUIPMENT MANUFACTURER FOR EXACT LOCATIONS AND REQUIREMENTS. ENTIRE LIFT STATION WELL CONSIDERED AS CLASS 1, DIVISION 1 HAZARDOUS LOCATION. ALL SYSTEMS, DEVICES, WIRING, AND CONNECTIONS SHALL BE IN CONFORMANCE WITH AND INSTALLED IN COMPLIANCE WITH ALL REQUIREMENTS OUTLINED IN THE NATIONAL ELECTRICAL CODE, ARTICLES 500 AND 501 AS WELL AS LOCAL AND STATE OF ALASKA SPECIFICATIONS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SEAL–OFFS AS APPROPRIATE AND AS REQUIRED BY GOVERNING CODES.
7. LIFT STATION CONTROLLER, WITH 1/3HP 240V SINGLE PHASE PUMP. PROVIDE POWER AND CONTROL CONNECTIONS BETWEEN CONTROL PANEL, PUMP, AND FLOATS AS REQUIRED FOR OPERATION, INCLUDING ANY NECESSARY CONDUIT AND WIRING FOR A REMOTE ALARM IF A REMOTE ALARM IS PROVIDED. COORDINATE WITH CIVIL FOR LOCATIONS AND REQUIREMENTS.
8. TELECOMMUNICATION UTILITY NETWORK CONNECTION BOX. CONTRACTOR TO COORDINATE WITH TELECOM UTILITY FOR THE PROVIDING AND INSTALLING OF MAST CONDUIT, WEATHERHEAD, AND EXTERIOR RATED BOX ON EXTERIOR OF THE BUILDING FOR CONNECTION OF INCOMING OVERHEAD TELECOM SERVICE. PROVIDE ONE 2" CONDUIT WITH CABLING AS REQUIRED FROM TELECOM BOX TO TELECOM BACKBOARD WITHIN BUILDING. COORDINATE AND CONFIRM EXACT LOCATION, SIZE AND TYPE OF BOX, CONDUIT SIZE, CABLING REQUIREMENTS, AND ANY OTHER REQUIREMENTS WITH TELECOM UTILITY

100% DRAWING SET

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1" ONE INCH

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA , AK

SITE PLAN

SHEET SIZE:	34x22
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1" ONE INCH

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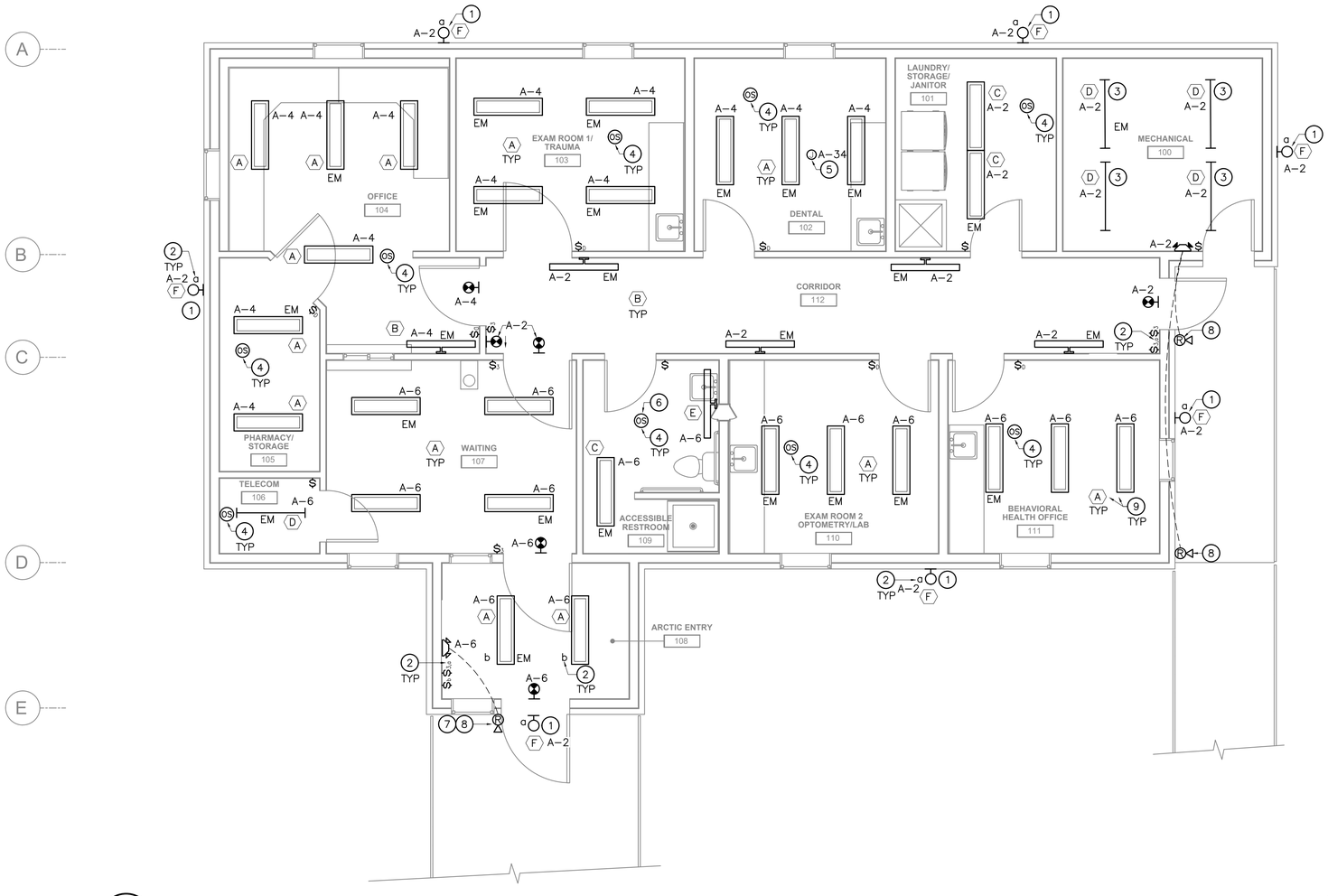

1 E2.1 LIGHTING PLAN

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

N

GENERAL NOTES

1. PROVIDE SEISMIC BRACING AND SUPPORT FOR ELECTRICAL LIGHTS AND EQUIPMENT WHERE REQUIRED BY THE IBC AND OTHER APPLICABLE CODES. REFERENCE ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS.
2. ALTHOUGH NOT SHOWN, AND UNLESS CONDUCTORS ENTER THE BOX THROUGH A RACEWAY, SWITCH BOXES SHALL INCLUDE A "GROUNDED CONDUCTOR" (NEUTRAL) OF THE CONTROLLED LIGHTING CIRCUIT AS REQUIRED BY NEC 404.2(C).
3. ALTHOUGH NOT SHOWN, THE CONTRACTOR SHALL PROVIDE LINE AND/OR LOW VOLTAGE CONTROL WIRING AS REQUIRED FOR LIGHT FIXTURE SWITCHING CONTROLS, DIMMING, ETC.
4. CONNECT EMERGENCY LIGHT BATTERIES AND EXIT SIGNAGE TO UNSWITCHED "HOT" LEG OF LOCAL AREA LIGHTING BRANCH CIRCUIT.
5. CONTRACTOR TO VERIFY LOCATIONS OF ALL SWITCHES WITH TENANT PRIOR TO ROUGH-IN.
6. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES TO AVOID CONFLICTS WITH MECHANICAL DUCTWORK, PIPING, ARCHITECTURAL AND STRUCTURAL ELEMENTS.
7. CONTRACTOR TO COORDINATE WORK WITH OWNER SUPPLIED FURNISHINGS, FIXTURES, EQUIPMENT AND DENTAL EQUIPMENT.

SHEET NOTES

INDICATED BY: (#)

1. EXTERIOR LIGHT FIXTURES ARE TO BE SURFACE MOUNTED ON INTEGRAL BACK BOX. CONTRACTOR TO MINIMIZE ANY EXPOSED RACEWAY AS MUCH AS POSSIBLE. THE LIGHTS ARE TO BE CONTROLLED BY INTEGRAL PHOTOCELL AND THE TWO 3-WAY OVERRIDE OFF SWITCHES LOCATED AT ENTRANCE/EGRESS DOORS.
2. LOWER CASE LETTER INDICATES LIGHT FIXTURE SWITCHING CONTROL CORRESPONDING TO CONTROLS LOCATED AT WALL AND CEILING, TYPICAL WHERE SHOWN.
3. COORDINATE WITH MECHANICAL FOR THE BEST PLACEMENT OF LIGHT FIXTURE, TO ADEQUATELY ILLUMINATE THE SPACE AND TO AVOID CONFLICTS WITH MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC.
4. TYPE, QUANTITY, AND LOCATION OF OCCUPANCY SENSORS FOR CONTROL OF EACH AREA'S LIGHTING IS TO BE DESIGNED BY CONTRACTOR'S VENDOR. TYPICAL OF ALL. REFERENCE ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS.
5. JUNCTION BOX FOR CONNECTION TO OWNER FURNISHED DENTAL OPERATING LIGHT, (120V). PROVIDE BACKING PER MANUFACTURERS REQUIREMENTS.
6. OCCUPANCY SENSOR IS TO BE DAMP LOCATION LISTED.
7. CONTRACTOR TO ADJUST THE DISTRIBUTION OF THIS FIXTURE TO PROVIDE FORWARD THROW TO PROPERLY ILLUMINATE THE PATH OF EGRESS.
8. CONTRACTOR TO MOUNT REMOTE EMERGENCY FIXTURES ON CONTRACTOR SUPPLIED SURFACE MOUNTED JUNCTION BOX APPROPRIATE FOR THE USE. CONTRACTOR TO MINIMIZE ANY EXPOSED RACEWAY AS MUCH AS POSSIBLE.
9. FIXTURES TYPE 'A' ARE TO BE SUSPENDED FROM A SLOPED CEILING. REFERENCE THE ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS. PROVIDE MOUNTING AS NEEDED. TYPICAL OF ALL.

100% DRAWING SET

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA, AK

LIGHTING PLAN

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DESIGNED BY:	
DRAWN BY:	JWA
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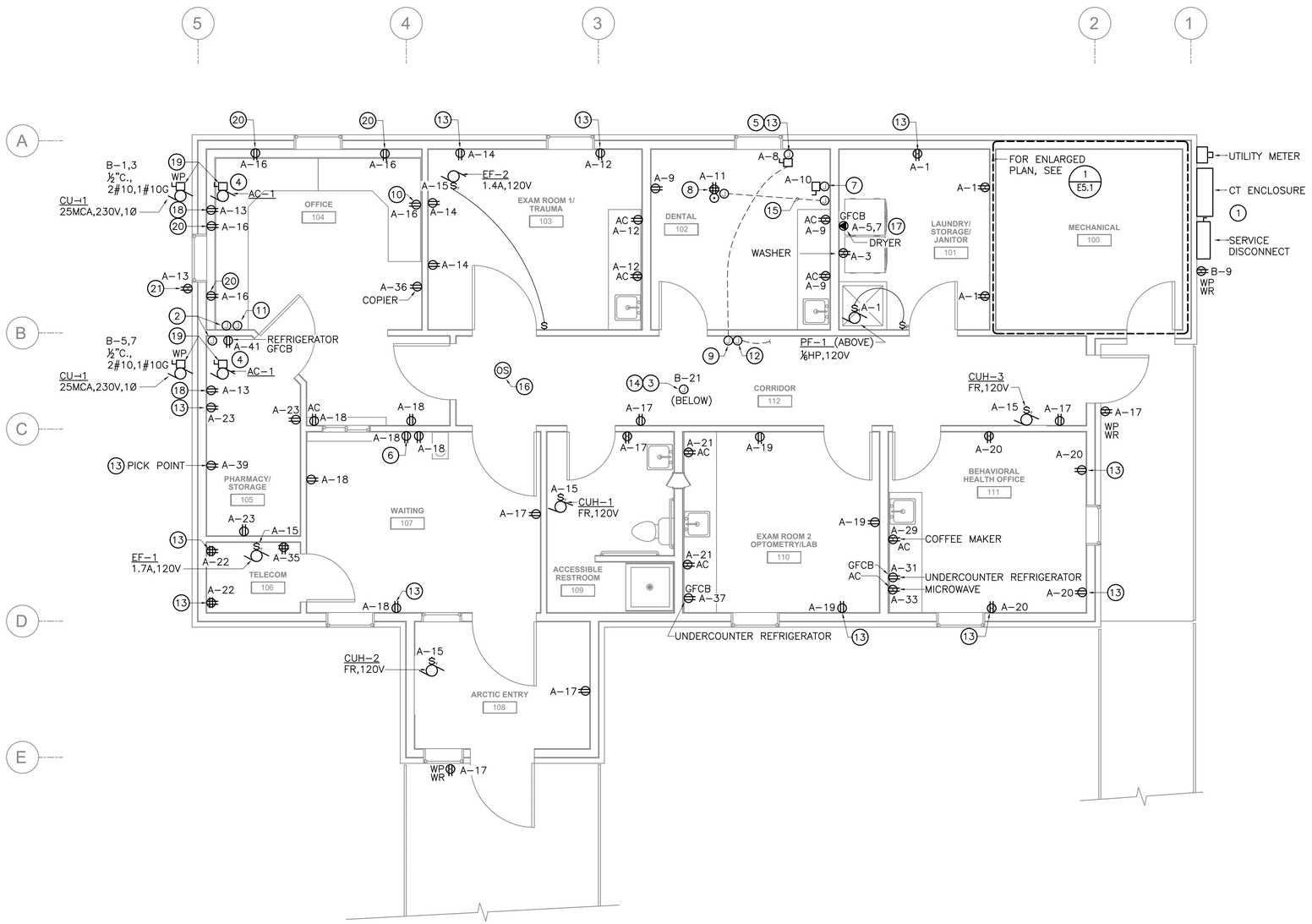

1 POWER PLAN

E3.1

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

N

GENERAL NOTES

1. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT NEC REQUIRED WORKING CLEARANCES AND SPACES AROUND ALL ELECTRICAL EQUIPMENT, INCLUDING SERVICE ENTRANCE EQUIPMENT, PANELS, TRANSFER SWITCH, DISCONNECTS, MOTOR STARTERS, ETC. ARE MAINTAINED TO ENSURE THAT THEY ARE PROVIDED WITH NEC REQUIRED WORKING CLEARANCE AND DEDICATED SPACES AS REQUIRED BY NEC 110.26. WHERE NECESSARY, PROVIDE STRUCTURAL CHANNEL (UNISTRUT) SUPPORT FOR INSTALLATION.
2. GFCI RECEPTACLES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION PER NEC 210.8. IF NOT POSSIBLE, PROVIDE CIRCUITS SUPPLIED BY A 5mA GFCI CIRCUIT BREAKER.
3. ALL NON-LOCKING 125 VOLT AND 250 VOLT TYPE 15 AND 20 AMP RECEPTACLES ARE TO BE TAMPER-RESISTANT TYPE RECEPTACLES PER NEC 406.12.
4. COORDINATE EXACT QUANTITY, HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL, MECHANICAL, FURNITURE, DENTAL, AND EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN. LOCATE DEVICES ABOVE MECHANICAL BASEBOARD HEATING UNITS.
5. PROVIDE SEISMIC BRACING AND SUPPORT FOR ALL ELECTRICAL EQUIPMENT WHERE REQUIRED BY THE IBC AND OTHER APPLICABLE CODES.
6. DO NOT PUT ANY RECESSED DEVICE BOXES BACK TO BACK IN THE SAME STUD SPACE.
7. ALL EXTERIOR MOUNTED DEVICES AND FIXTURES ARE TO BE MOUNTED ON SURFACE MOUNTED JUNCTION BOXES.
8. DENTAL REQUIREMENTS ARE ASSUMED AS DENTAL DESIGN DRAWINGS HAVE NOT BEEN DEVELOPED. THE CONTRACTOR SHALL CONFIRM DENTAL REQUIREMENTS, INCLUDING QUANTITY AND SIZE OF CIRCUITS, LOCATION OF DEVICES, ETC., ONCE DENTAL DESIGN DRAWINGS BECOME AVAILABLE AND PROVIDE THE NECESSARY CIRCUITS, BREAKERS, RACEWAYS, WIRING, DEVICES, ETC., AS REQUIRED.
9. COORDINATE EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL ITEMS PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED CONTROLS AND CONNECTIONS AS NEEDED FOR FULLY OPERATIONAL SYSTEMS, AND THE INTENDED OPERATION AS INDICATED BY MECHANICAL SEQUENCE OF OPERATIONS.

SHEET NOTES

INDICATED BY: (#)

1. COORDINATE LOCATION AND TYPE OF UTILITY SERVICE DROP WITH SERVING UTILITY. COORDINATE LOCATION WITH ARCHITECT.
2. PROVIDE POWER AND CONTROL CONNECTIONS AS REQUIRED BETWEEN AC-1 AND RESPECTIVE WIRED REMOTE CONTROLLER.
3. JUNCTION BOX FOR BRANCH CIRCUIT FOR CONNECTION TO SEWER LINE ARCTIC PIPE/HEAT TRACE ASSEMBLY. CIRCUIT BREAKER TO HAVE PROVISIONS TO BE LOCKED OFF IN THE OPEN POSITION. PROVIDE AND INSTALL HEAT TRACE FROM CLINIC TO LOCATION AS SHOWN ON CIVIL DRAWINGS. COORDINATE WITH CIVIL FOR THE INSTALLATION OF HEAT TRACE. SEE CIVIL AND MECHANICAL DRAWINGS FOR EXACT LOCATION, LENGTHS, DETAILS, AND REQUIREMENTS. COORDINATE EXACT LOCATION OF JUNCTION BOX TO AVOID CONFLICTS WITH TRIODETIC FOUNDATION, STRUCTURE. ETC., AND TO ENSURE BOX AND HEATTRACE ARE ACCESSIBLE. IF LOCATED OUTDOORS, INSTALLATION SHALL BE APPROPRIATE FOR THE CONDITIONS.
4. UNIT IS TO BE POWERED FROM CU-1.
5. DENTAL X-RAY COMPONENT, (120V). COORDINATE EXACT LOCATION AND CONNECTION TYPE WITH DENTAL SUPPLIER.
6. COORDINATE EXACT HEIGHT AND LOCATION OF DEVICES FOR TV.
7. DENTAL UNIT UTILITY CENTER, PROVIDE 120V CONNECTION PER MANUFACTURER'S REQUIREMENTS.
8. RECEPTACLE FOR CONNECTION OF DENTAL CHAIR. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT LOCATION AND TYPE OF RECEPTACLE REQUIRED.
9. DENTAL X-RAY COMPONENT, 120V. COORDINATE EXACT LOCATION AND CONNECTION TYPE WITH DENTAL SUPPLIER. PROVIDE JUNCTION BOX WITH SINGLE GANG MUDRING FOR X-RAY CONTROL STATION AT +60". PROVIDE ½" CONDUIT WITH PULL STRING TO SIMILAR BOX IN SPECIALTY/DENTAL ROOM.
10. COORDINATE EXACT HEIGHT AND LOCATION OF DEVICES WITH FURNITURE SUPPLIER.
11. HRV CONTROL PANEL. PROVIDE JUNCTION BOX WITH CONNECTIONS FROM HRV CONTROL PANEL TO HRV-1 AS NECESSARY.
12. DENTAL CONTROL PANEL FOR REMOTE CONTROL OF COMPRESSOR AND VACUUM PUMP. COORDINATE EXACT LOCATION. PROVIDE LOW VOLTAGE CONTROL WIRING AS REQUIRED BY DENTAL DRAWINGS.
13. COORDINATE EXACT HEIGHT OF DEVICE TO AVOID CONFLICTS WITH MECHANICAL BASEBOARD. REFERENCE MECHANICAL DRAWINGS SHEET M2.2 DETAIL 2.
14. HEAT TRACE IS TO BE CONTROLLED BY A FREEZE PROTECTION THERMOSTAT WITH TEMPERATURE SENSOR INSTALLED IN THE ARCTIC PIPING, OUTSIDE OF THE UTILIDOR.
15. PROVIDE 2" CONDUIT BETWEEN CHAIR AND DENTAL UTILITY FOR DENTAL WIRING.
16. OCCUPANCY SENSOR FOR CONNECTION TO AND FOR CONTROL OF HRV-1. COORDINATE WITH MECHANICAL FOR THE PROVIDING, INSTALLING, AND CONNECTING OF THE OCCUPANCY SENSOR. VERIFY EXACT LOCATION PRIOR TO INSTALLATION. OCCUPANCY SENSOR IS TO HAVE TIME DELAY SETTING AND BE APPROPRIATE FOR THE INTENDED USE. REFERENCE MECHANICAL SEQUENCE OF OPERATIONS FOR ADDITIONAL REQUIREMENTS.
17. PROVIDE ½"C,4#10 (CU) AND NEMA 14-30R FOR CONNECTION TO DRYER.
18. COORDINATE HEIGHT OF RECEPTACLE FOR CONDENSATE PUMP WITH MECHANICAL.
19. PROVIDE POWER AND CONTROL CONNECTIONS BETWEEN CONDENSING UNIT (CU-1) OUTSIDE AND COOLING UNIT (AC-1) LOCATED INDOORS.
20. COORDINATE EXACT HEIGHT OF DEVICE TO AVOID CONFLICTS WITH MECHANICAL BASEBOARD AND FURNITURE. REFERENCE MECHANICAL DRAWINGS SHEET M2.2 DETAIL 5 AND COORDINATE WITH FURNITURE DRAWINGS.
21. WEATHER RESISTANT TYPE GFCI RECEPTACLE WITH "EXTRA DUTY", "WET WHILE IN USE" COVER. GFCI RECEPTACLE TO BE AT SAME LEVEL AND WITHIN 25 FEET OF EQUIPMENT AS PER NEC 210.63. COORDINATE LOCATION OF GFCI RECEPTACLE SO IT WILL BE READILY ACCESSIBLE.

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA , AK

POWER PLAN

SHEET SIZE:	34x22
DESIGNED BY:	
DRAWN BY:	JWA
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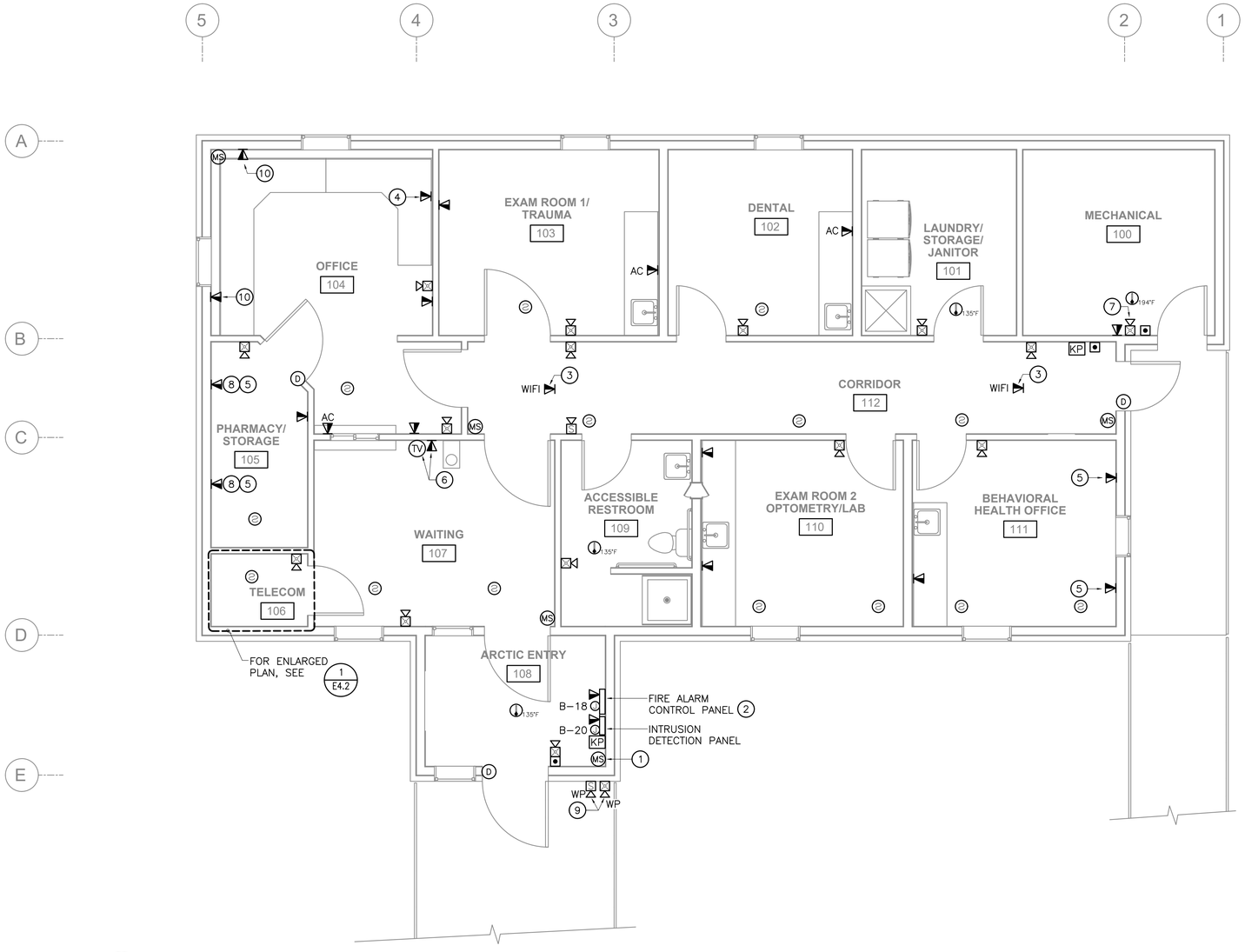

1 E4.1 SIGNAL PLAN

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

N

GENERAL NOTES

1. COORDINATE EXACT QUANTITY, HEIGHTS, AND LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL, MECHANICAL, FURNITURE, DENTAL, AND EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN. LOCATE DEVICES ABOVE MECHANICAL BASEBOARD HEATING UNITS.
2. ALL REQUIRED FIRE ALARM DEVICES MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESIGN OF FIRE ALARM AND DETECTION SYSTEMS FOR FULL DETECTION COVERAGE. PROVIDE ALL NECESSARY DEVICES, WIRING, ETC. AS REQUIRED FOR COMPLIANCE WITH GOVERNING CODES INCLUDING DETECTORS THAT MAY NOT BE SHOWN.
3. DO NOT PUT ANY RECESSED DEVICE BOXES BACK TO BACK IN THE SAME STUD SPACE.
4. RUN MINIMUM OF 1" CONDUIT BACK TO TELECOM ROOM FOR EACH TELECOM OUTLET.
5. ALL TELECOM OUTLETS SHALL HAVE A MINIMUM OF 3 CAT6 HOMERUNS UNLESS OTHERWISE NOTED. SEE 4/E4.2.
6. ALL EXTERIOR MOUNTED DEVICES AND FIXTURES ARE TO BE MOUNTED ON SURFACE MOUNTED JUNCTION BOXES.
7. DENTAL REQUIREMENTS ARE ASSUMED AS DENTAL DESIGN DRAWINGS HAVE NOT BEEN DEVELOPED. THE CONTRACTOR SHALL CONFIRM DENTAL REQUIREMENTS, INCLUDING QUANTITY, LOCATION OF DEVICES, ETC., ONCE DENTAL DESIGN DRAWINGS BECOME AVAILABLE, PROVIDE THE NECESSARY RACEWAYS, CABLING, DEVICES, ETC., AS REQUIRED.

SHEET NOTES

INDICATED BY: (#)

1. THIS MOTION SENSOR IS TO COME WITH BUILT IN LOW TEMPERATURE SENSOR. REFERENCE DETAIL 2/E0.1 AND SPECIFICATIONS.
2. COORDINATE EXACT LOCATION OF FIRE ALARM PANEL WITH AUTHORITY HAVING JURISDICTION AND ARCHITECT.
3. PROVIDE TELECOMMUNICATION CONNECTION WITH TWO DATA JACKS/CABLES EACH AT CEILING FOR WIRELESS TELECOMMUNICATION ACCESS PORT.
4. COORDINATE EXACT HEIGHT AND LOCATION OF DEVICES WITH FURNITURE SUPPLIER.
5. COORDINATE EXACT HEIGHT AND LOCATION OF DEVICES TO AVOID CONFLICTS WITH MECHANICAL BASEBOARD.
6. COORDINATE EXACT HEIGHT AND LOCATION OF DEVICES FOR TV. TELEVISION CABLING IS TO BE RUN FROM EACH OUTLET LOCATION TO 'TELECOM' ROOM 106. TYPICAL OF ALL SHOWN.
7. COORDINATE EXACT LOCATION SO DEVICE IS VISIBLE AFTER ALL EQUIPMENT, DUCTWORK, PIPING, ETC. HAS BEEN INSTALLED.
8. TELECOMMUNICATION OUTLETS FOR COMPUTER WORKSTATION AND PICKPOINT. COORDINATE LOCATIONS PRIOR TO ROUGH-IN.
9. DEVICES ARE TO BE SURFACE MOUNT EITHER WITH INTEGRAL BACK BOXES OR PROVIDE WITH WEATHERPROOF JUNCTION BOX AS NEEDED. CONTRACTOR TO MINIMIZE THE AMOUNT OF EXPOSED CONDUIT AS MUCH AS POSSIBLE.
10. COORDINATE EXACT HEIGHT AND LOCATION OF DEVICES TO AVOID CONFLICTS WITH MECHANICAL BASEBOARD AND FURNITURE.

100% DRAWING SET

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SIGNAL PLAN

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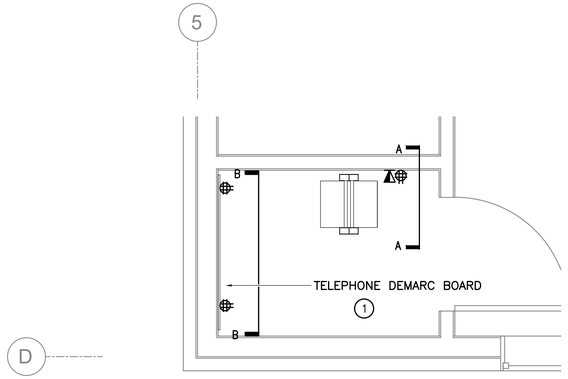


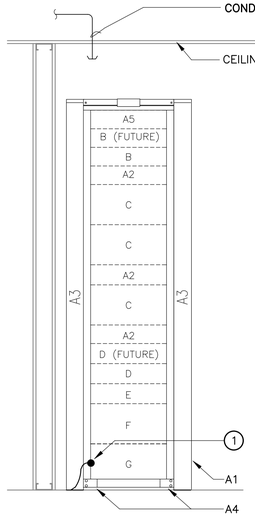
DETAIL NOTES

1. COORDINATE LAYOUT OF ROOM, LOCATIONS, AND HEIGHTS OF DEVICES WITH THE MECHANICAL DRAWINGS TO AVOID CONFLICTS WITH MECHANICAL BASEBOARD HEATER. REFERENCE MECHANICAL DRAWINGS, SHEET M2.2.
2. POWER RECEPTACLES ARE SHOWN FOR REFERENCE ONLY SEE SHEET E3.1 FOR CIRCUITING.

1 TELECOM ROOM DETAIL

E4.2 SCALE: 1/2" = 1'-0"

THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT DEPICT EXACT EQUIPMENT OR REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S 'IT' REPRESENTATIVE, AND SHALL PROVIDE ALL EQUIPMENT, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.



PROVIDE THE FOLLOWING RACK EQUIPMENT AS NOTED:

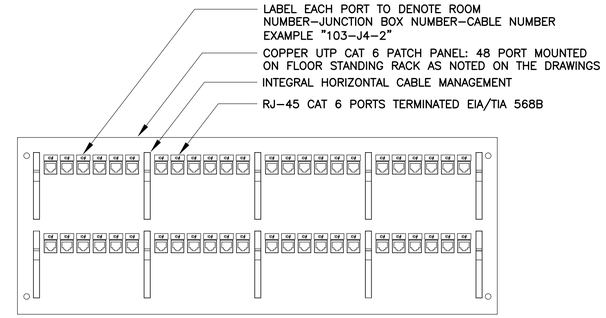
- A1– UNIVERSAL SELF SUPPORT RACK, 7'–0" HIGH, 19" WIDE, EXTRUDED ALUMINUM, CLEAR COAT FINISH
- A2– HORIZONTAL WIRE MANAGEMENT PANEL, 2RMU, CLEAR
- A3– DOUBLE–SIDED NARROW VERTICAL RACK CABLING SECTION, CLEAR
- A4– RACK SEISMIC GUSSET KIT
- A5– MODEM SHELF (MODEM NIC)
- B– 24 PORT RJ–45 PATCH PANEL FOR TELCO, PRECONFIGURED 25PR, TERMINATED 1–PAIR PER JACK, CONNECTORIZED
- C– 48–PORT RJ–45 PATCH PANEL FOR CAT 6 DISTRIBUTION
- D– 24–PORT ACTIVE HUB (NIC)
- E– MONITOR/KEYBOARD/MOUSE (NIC)
- F– SERVER (NIC)
- G– UPS

DETAIL NOTES

1. ALL GROUND CONNECTIONS SHALL BE IRREVERSIBLE CRIMP TYPE.
2. SEE ALSO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT TO BE PROVIDED.

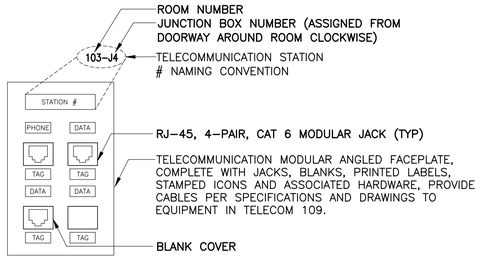
2 TELECOM ROOM RACK DETAIL A-A

E4.2 SCALE: NTS



3 TELECOM PATCH PANEL (TYP)

E4.2 SCALE: NTS



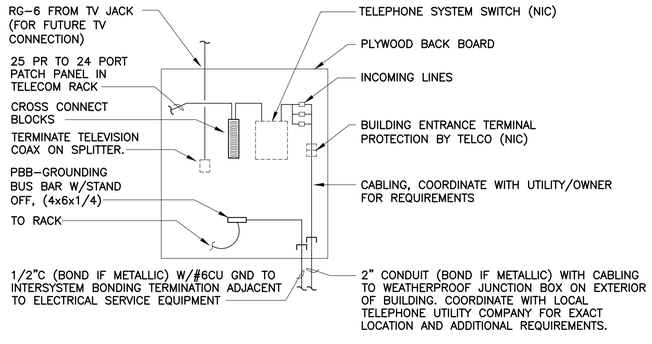
DETAIL NOTES

1. EACH DEVICE PLATE SHALL BE 4 PORT MINIMUM WITH (3) RJ–45 JACK CAT 6 RATED, UON ON THE DRAWINGS.
2. FILL ACTIVE PORTS IN FACEPLATE FROM LEFT TO RIGHT AND TOP TO BOTTOM.
3. TERMINATE EACH CAT 6 CABLE ON RJ–45 CAT 6 RATED JACK AS INDICATED.
4. PROVIDE BLANKS FOR UNUSED PORT SPACES.
5. PROVIDE LABEL DENOTING ROOM NUMBER AND JUNCTION BOX NUMBER AS SHOWN ON THE FLOOR PLANS ON EACH DEVICE PLATE WHERE NOTED ABOVE AS STATION NUMBER.
6. ALL LABELS SHALL BE PRINTED WITH THERMAL OR LASER PRINTER SYSTEM.

4 TELECOM OUTLET (TYP.)

E4.2 SCALE: NTS

THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT DEPICT EXACT EQUIPMENT OR LOCATIONS OF UTILITY PROVIDED ITEMS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOMMUNICATION UTILITY PROVIDER, AND SHALL PROVIDE ALL CONDUITS, CABLING, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE AND OPERABLE INFRASTRUCTURE AS INTENDED.



5 TELCO SERVICE DEMARC DETAIL B-B

E4.2 SCALE: NTS

100% DRAWING SET

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STATE OF ALASKA 49 TH
Brett A. Bingham
EE-10821
07/31/20
REGISTERED PROFESSIONAL ENGINEER

1" ONE INCH

NO	DATE	BY	REVISION

250 H Street
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LCG Lantech inc
architecture • engineering • surveying

SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA , AK

TELECOMMUNICATION DETAILS

SHEET SIZE:	34x22
DESIGNED BY:	
DRAWN BY:	JWA
CHECKED BY:	BAB
DATE:	7/31/2020
FILE NO.	2020.025.0

SHEET NUMBER
E4.2 OF 7

1" ONE INCH

GENERAL NOTES

1. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT NEC REQUIRED WORKING CLEARANCES AND SPACES AROUND ALL ELECTRICAL EQUIPMENT, INCLUDING SERVICE ENTRANCE EQUIPMENT, PANELS, TRANSFER SWITCH, DISCONNECTS, MOTOR STARTERS, ETC. ARE MAINTAINED TO ENSURE THAT THEY ARE PROVIDED WITH NEC REQUIRED WORKING CLEARANCE AND DEDICATED SPACES AS REQUIRED BY NEC 110.26. WHERE NECESSARY, PROVIDE STRUCTURAL CHANNEL (UNISTRUT) SUPPORT FOR INSTALLATION.
2. GFCI RECEPTACLES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION PER NEC 210.8. IF NOT POSSIBLE, PROVIDE CIRCUITS SUPPLIED BY A 5mA GFCI CIRCUIT BREAKER.
3. ALL NON-LOCKING 125 VOLT AND 250 VOLT TYPE 15 AND 20 AMP RECEPTACLES ARE TO BE TAMPER-RESISTANT TYPE RECEPTACLES PER NEC 406.12.
4. COORDINATE EXACT QUANTITY, HEIGHTS, AND LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL, MECHANICAL, FURNITURE, DENTAL, AND EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN.
5. PROVIDE SEISMIC BRACING AND SUPPORT FOR ALL ELECTRICAL EQUIPMENT WHERE REQUIRED BY THE IBC AND OTHER APPLICABLE CODES.
6. DO NOT PUT ANY RECESSED DEVICE BOXES BACK TO BACK IN THE SAME STUD SPACE.
7. IMMEDIATELY UPON PROJECT INCEPTION THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRICAL UTILITY COMPANY FOR THE INSTALLATION OF A NEW ELECTRICAL SERVICE TO THE BUILDING AS SHOWN. ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE LOCAL ELECTRICAL UTILITY COMPANY STANDARDS AND THE LATEST ADOPTED NEC.
8. PROVIDE ARC FLASH WARNING SIGNS ON THE PANELBOARDS, METER SOCKET ENCLOSURES, ETC AS REQUIRED PER NFPA 70 (NEC) ARTICLE 110.16.
9. PROVIDE IDENTIFICATION AT ALL DISCONNECTS, SERVICE EQUIPMENT, AND PANELS AS APPROPRIATE AND AS REQUIRED BY THE NEC AND LOCAL CODES.
10. SIZE CONDUCTORS TO PROVIDE MAXIMUM VOLTAGE DROP NOT TO EXCEED 3% IN BRANCH CIRCUITS OR FEEDERS. IN GENERAL, FOR A 20 AMP 120V CIRCUIT, MINIMUM WIRE SIZE SHALL BE #12 (CU.) FOR BRANCH CIRCUITS LESS THAN 75', #10 (CU.) FOR CIRCUITS 75' TO 125' AND #8 (CU.) FOR CIRCUITS 125 TO 200'.
11. DENTAL REQUIREMENTS ARE ASSUMED AS DENTAL DESIGN DRAWINGS HAVE NOT BEEN DEVELOPED. THE CONTRACTOR SHALL CONFIRM DENTAL REQUIREMENTS, INCLUDING QUANTITY AND SIZE OF CIRCUITS, LOCATION OF DEVICES, ETC., ONCE DENTAL DESIGN DRAWINGS BECOME AVAILABLE AND PROVIDE THE NECESSARY CIRCUITS, BREAKERS, RACEWAYS, WIRING AND CONTROL CONNECTIONS, DEVICES, ETC., AS REQUIRED.
12. COORDINATE EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL ITEMS PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED CONTROLS AND CONNECTIONS AS NEEDED FOR FULLY OPERATIONAL SYSTEMS, AND THE INTENDED OPERATION AS INDICATED BY MECHANICAL SEQUENCE OF OPERATIONS.

SHEET NOTES

INDICATED BY: (#)

1. COORDINATE WITH MECHANICAL FOR THE PROVIDING AND INSTALLING OF BOILER EMERGENCY SHUTDOWN CONTROLS. PROVIDE ALL CONNECTIONS AND APPURTENANCES AS REQUIRED BY ASME CSD-1 AND MECHANICAL DRAWINGS.
2. HEAT TRACE IS TO BE CONTROLLED BY A FREEZE PROTECTION THERMOSTAT WITH TEMPERATURE SENSOR INSTALLED IN THE ARCTIC PIPING, LOCATED OUTSIDE OF THE UTILIDOR.
3. HRV-1, COORDINATE WITH MECHANICAL FOR EXACT EXACT LOCATION AND HEIGHT OF RECEPTACLE. PROVIDE CONNECTIONS TO OCCUPANCY SENSOR IN CORRIDOR FOR CONTROL.
4. VACUUM PUMP UNIT – 220 VOLTS, 12 AMPS (ASSUMED), COORDINATE ELECTRICAL REQUIREMENTS, INCLUDING CONNECTION TYPE, OF DENTAL EQUIPMENT WITH DENTAL SUPPLIER. MAXIMUM VOLTAGE PERMITTED IS BELIEVED TO BE 240 VOLTS (CONTRACTOR TO VERIFY). ELECTRICIAN IS TO VERIFY THE VOLTAGE LEVEL AT EQUIPMENT AND COORDINATE WITH DENTAL SUPPLY/EQUIPMENT MANUFACTURER FOR THE PROVIDING AND INSTALLING OF A BUCK/BOOST TRANSFORMER TO BUCK VOLTAGE IF REQUIRED.
5. PILOT LIGHT SWITCHES FOR CONTROL OF WATER AND SEWER HEAT TRACE SUPPLY CIRCUITS. PROVIDE IDENTIFICATION LABEL FOR EACH SWITCH. HEAT TRACE IS ALSO TO BE CONTROLLED BY A FREEZE PROTECTION THERMOSTAT WITH TEMPERATURE SENSOR INSTALLED IN EACH RESPECTIVE ARCTIC PIPE.
6. AIR COMPRESSOR – 208/230 VOLTS, 8 AMPS (ASSUMED). COORDINATE ELECTRICAL REQUIREMENTS, INCLUDING CONNECTION TYPE, OF DENTAL EQUIPMENT WITH DENTAL SUPPLIER. VERIFY MAXIMUM VOLTAGE PERMITTED AS WELL AS ACTUAL VOLTAGE LEVEL AT EQUIPMENT, COORDINATE WITH DENTAL SUPPLY/EQUIPMENT MANUFACTURER FOR THE PROVIDING AND INSTALLING OF A BUCK/BOOST TRANSFORMER TO BUCK VOLTAGE IF REQUIRED.
7. JUNCTION BOX FOR BRANCH CIRCUIT FOR CONNECTION TO WATER LINE ARCTIC PIPE/HEAT TRACE ASSEMBLY. PROVIDE AND INSTALL HEAT TRACE FROM FLOOR PENETRATION IN MECHANICAL ROOM CLINIC TO LOCATION AS SHOWN ON CIVIL DRAWINGS. COORDINATE WITH CIVIL FOR THE INSTALLATION OF HEAT TRACE. SEE CIVIL AND MECHANICAL DRAWINGS FOR EXACT LOCATION, LENGTHS, DETAILS, AND REQUIREMENTS.
8. PROVIDE TWO (2) 3" CONDUITS BELOW THE TRANSFER SWITCH STUBBED DOWN BELOW BUILDING AND CAPPED FOR CONNECTION TO FUTURE GENERATOR.
9. PROVIDE GROUNDING ELECTRODE SYSTEM AS FOLLOW: #1/0 CU. TO METALLIC WATER MAIN (IF PRESENT), #1/0 CU. TO BUILDING STEEL (IF PRESENT), 20' OF #4 CU. ENCASED IN FOOTING CONCRETE AND BONDED TO REBAR. (IF PRESENT) AND #4 CU. TO 2 DRIVEN ROD ELECTRODES. STEEL PILES (IF PRESENT) ARE TO BE BONDED TO BUILDING STEEL.
10. INTERSYSTEM BONDING TERMINATION PER NEC 250.94 FOR CONNECTION TO COMMUNICATIONS BONDING AND GROUNDING CONDUCTORS. PROVIDE #6 COPPER TO TELECOM ROOM GROUND BAR.
11. TRANSFER SWITCH IS TO BE A 3 POLE SWITCHED TYPE FOR FUTURE FLEXIBILITY OF SWITCHING THE NEUTRAL IF THE FUTURE GENERATOR IS A SEPARATELY DERIVED SYSTEM. UNTIL THIS CAN BE DETERMINED, ASSUME THAT THE FUTURE GENERATOR WILL BE A NON-SEPARATELY DERIVED SYSTEM, AND SOLIDLY CONNECT THE NEUTRAL (NOT SWITCHED) AT THE TRANSFER SWITCH. PROVIDE LABELING TO INDICATE SUCH.

PANEL A — **SCHEDULE** — 400A MLO
120/240V,1PH,3W

	CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA		PHASE B VA		LOAD DESCRIPTION	POLE	AMP	CKT	
	1	20	1	PF-1, REC - LAUNDRY	1070	580			LTS - MECH,JAN,HALLWAY,EXT	1	20	2	
	3	20	1	REC - WASHING MACHINE			1500	650	LTS - DENTAL,EXAM1,OFFICE,PHARM	1	20	4	
GP	5	30	/	REC - DRYER	2500	680			LTS-BEHAV,EXAM2,RR,WAIT,ENTRY,TEL	1	20	6	
	7	/	2				2500	1200	DENTAL X-RAY	1	20	8	
	9	20	1	REC - DENTAL	540	1200			DENTAL UNIT UTILITY CENTER	1	20	10	
	11	20	1	REC - DENTAL CHAIR			360	540	REC - EXAM ROOM 1 WEST	1	20	12	
	13	20	1	REC - CONDENSATE PUMP, REC - EXT	830	540			REC - EXAM ROOM 1 EAST	1	20	14	
	15	20	1	CUH-1 RR, CUH-2, EF-1,2 ,CUH-1 HALL			1300	900	REC - OFFICE SOUTH	1	20	16	
	17	20	1	REC - ENTRY,RR,EXTERIOR,HALLWAY	1260	1080			REC - OFFICE N, WAITING, TV	1	20	18	
	19	20	1	REC - EXAM ROOM 2 S,W			540	720	REC - BEHAV HEALTH OFFICE	1	20	20	
	21	20	1	REC - EXAM ROOM 2 EAST	360	720			REC - TELECO PHONE BRD	1	20	22	
	23	20	1	REC - PHARMACY			540	1200	REC - HEADBOLT HEATERS	1	20	24	GP
	25	20	/	LIFT STATION PUMP	1260	1200			REC - HEADBOLT HEATERS	1	20	26	GP
	27	/	2				1260	1200	REC - HEADBOLT HEATERS	1	20	28	GP
	29	20	1	REC - COFFEE MAKER	1000	1200			REC - HEADBOLT HEATERS	1	20	30	GP
GP	31	20	1	REC - UC FRIDGE, BEHV OFFICE			900	1200	REC - HEADBOLT HEATERS	1	20	32	GP
	33	20	1	REC - MICROWAVE	1200	1200			DENTAL EXAM LIGHT	1	20	34	
	35	20	1	REC - TELECOM RACK			360	1200	REC - COPIER	1	20	36	
GP	37	20	1	REC - UC FRIDGE, EXAM RM 2	900				SPARE	1	20	38	
	39	20	1	REC - PHARMACY PICK POINT			900	13620	PANEL B	\	*	40	
GP	41	20	1	REC - PHARMACY FRIDGE	900	13840				2	\	42	
CONNECTED LOAD (VA)					34,060		32,590		66,650 VA				
CONNECTED LOAD (AMPERES)					284		272		278 A				
DEMAND LOAD (VA)					35,290		33,968		69,258 VA				
DEMAND LOAD (AMPERES)					294		283		289 A				
AMPERE INTERUPT RATING					AS INDICATED BY THE FAULT CURRENT ANALYSIS								

GP - PROVIDE WITH 5mA GFCI TYPE CIRCUIT BREAKER.
* - SEE SINGLE LINE DIAGRAM FOR CIRCUIT BREAKER RATING.

PANEL B — **SCHEDULE** — 200A MLO
120/240V,1PH,3W

	CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA		PHASE B VA		LOAD DESCRIPTION	POLE	AMP	CKT	
	1	30	/	CU-1 OFFICE	3000	1440			DENTAL VACUUM PUMP	\	20	2	
	3	/	2				3000	1440		2	\	4	
	5	30	/	CU-1 PHARMACY	3000	960			DENTAL AIR COMPRESSOR	\	20	6	
	7	/	2				3000	960		2	\	8	
	9	20	1	GT-1, REC - MECHANICAL EXTERIOR	720	500			DENTAL VACUUM CONTROLLER	1	20	10	
	11	20	1	VF-1,UH-1			1000	360	CP-1A, 1B	1	20	12	
	13	20	1	CP-2, CP-3	500	610			HRV-1	1	20	14	
	15	20	1	B-1, BC-1			1000	500	BOILER CONTROLS	1	20	16	
G	17	20	/	HEAT TRACE WATER	1200	500			FIRE ALARM SYSTEM	1	20	18	LC
	19	/	2				1200	500	INTRUSION DETECTION SYSTEM	1	20	20	
G,L	21	20	1	HEAT TRACE WASTE	600				SPARE	1	20	22	
	23	20	1	SPARE					SPARE	1	20	24	
	25	20	1	SPARE					SPARE	1	20	26	
	27	20	1	SPARE					SPARE	1	20	28	
	29	20	1	SPARE					SPARE	1	20	30	
	31	20	1	SPARE					SPACE	-	20	32	
	33	20	1	SPARE					SPACE	-	20	34	
	35	20	-	SPACE					SPACE	-	20	36	
	37	20	-	SPACE					SPACE	-	20	38	
	39	20	-	SPACE					SPACE	-	20	40	
	41	20	-	SPACE					SPACE	-	20	42	
CONNECTED LOAD (VA)					13,030		12,960		25,990 VA				
CONNECTED LOAD (AMPERES)					109		108		108 A				
DEMAND LOAD (VA)					13,840		13,620		27,460 VA				
DEMAND LOAD (AMPERES)					115		114		114 A				
AMPERE INTERUPT RATING					AS INDICATED BY THE FAULT CURRENT ANALYSIS								

G - PROVIDE WITH 30mA GFEP TYPE CIRCUIT BREAKER.
LC - PROVIDE CIRCUIT BREAKER WITH DEVICE SUITABLE FOR LOCKING IN THE "ON" POSITION PER NEC 760.41(A).
L - PROVIDE CIRCUIT BREAKER WITH DEVICE SUITABLE FOR LOCKING IN THE "OFF" POSITION.

FAULT CURRENT ANALYSIS

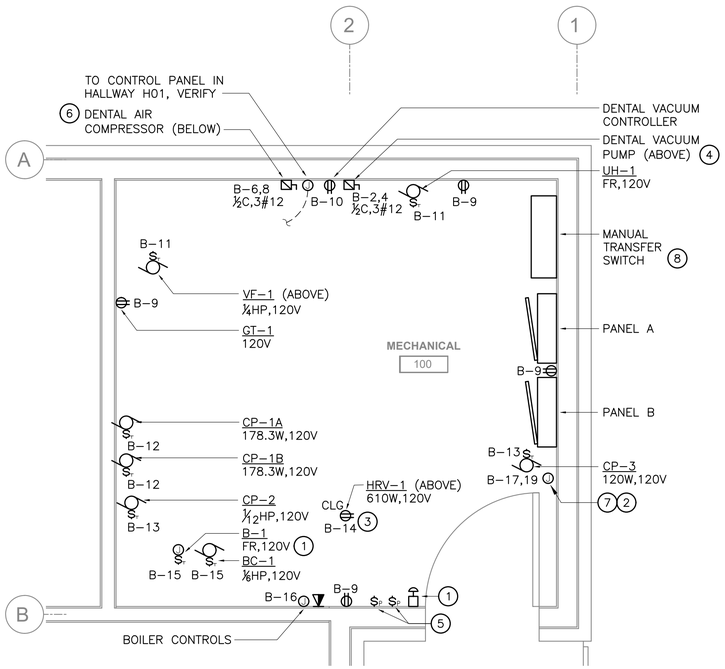
BASIS OF CALCULATIONS: DATE OF CALCULATION: 06/17/2020

VARIABLE	VALUE	
UTILITY		
PRIMARY BUS	INFINITE MVA	
UTILITY TRANSFORMER RATING	150 KVA	(ASSUMED)
VOLTAGE (LINE TO LINE)	120/240 VOLTS, 1ø	
UTILITY TRANSFORMER IMPEDANCE	1.6%Z	(ASSUMED)
SERVICE LATERAL LENGTH	70 FT	(ASSUMED)
SERVICE LATERAL CONDUCTOR SIZE	500 kcmil CU	(ASSUMED)
CONDUCTORS PER PHASE	1	(ASSUMED)
CONDUIT TYPE	MAGNETIC	

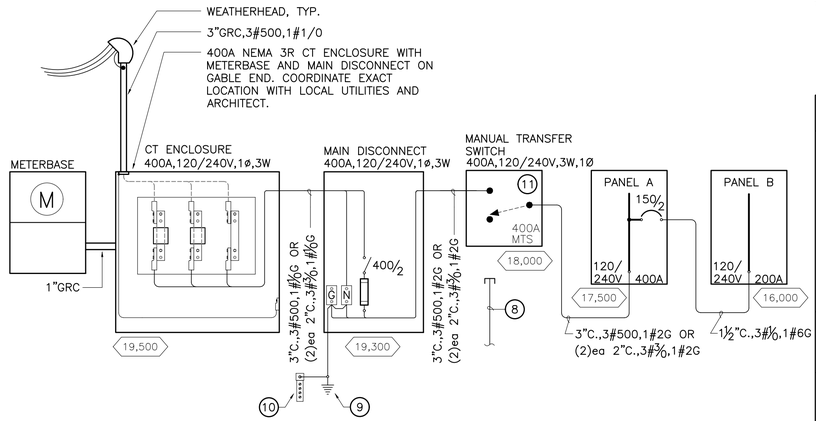
CALCULATION SUMMARY:

LOCATION	SHORT CIRCUIT CURRENT (L-L)
xx,xxx	SEE DRAWINGS FOR CURRENT.

CONTRACTOR TO CONFIRM ACTUAL VALUES OF ABOVE LISTED CALCULATION VARIABLES WITH SERVING UTILITY PRIOR TO ORDERING EQUIPMENT. IF ELECTRICAL UTILITY EQUIPMENT AND INSTALLATION DEVIATES FROM THE BASIS ITEMIZED ABOVE, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER OF RECORD TO CONFIRM THE AIC RATING REQUIRED FOR ELECTRICAL DISTRIBUTION EQUIPMENT. ALL EQUIPMENT SHALL BE RATED FOR AVAILABLE FAULT CURRENT AND LABELED PER NEC 110.24 WITH THE MAXIMUM AVAILABLE FAULT CURRENT WITH THE DATE THE CALCULATIONS WERE PERFORMED.



1 E5.1 ENLARGED MECHANICAL ROOM POWER PLAN
SCALE: 1/2" = 1'0"



2 E5.1 ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NTS

100% DRAWING SET

STATE OF ALASKA 49TH
Brett A. Bingham
EE-10821
REGISTERED PROFESSIONAL ENGINEER
07/31/20

1" ONE INCH

NO	DATE	BY	REVISION

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SOUTHCENTRAL FOUNDATION

TAKOTNA HEALTH CLINIC
TAKOTNA , AK

MECHANICAL ROOM POWER PLAN AND PANEL SCHEDULES

SHEET SIZE:	34x22
DESIGNED BY:	
DRAWN BY:	JWA
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DATE:	7/31/2020
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