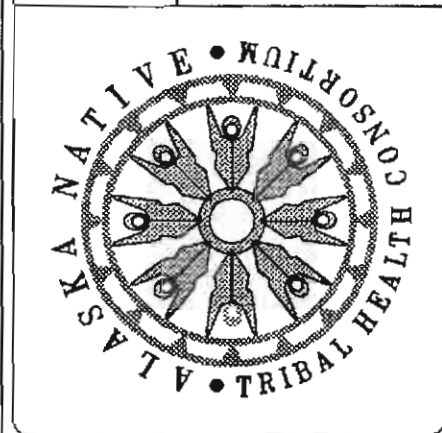
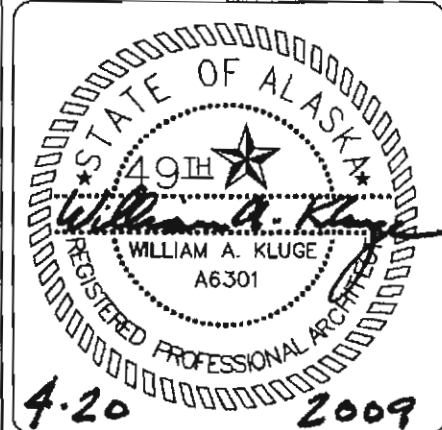


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<div>McGRATH SUB-REGIONAL HEALTH CENTER</div> <div>COVER SHEET & INDEX</div>		FILE NAME:	
		PROJECT NO:	0198
		PROJ ARCH:	BK
DATE:	4/20/2009		
SCALE:	AS NOTED		
DRAWN BY:	CFP		
SHEET G-001			
1 OF 16			

510 L Street
Suite 410, Peterson Tower
Anchorage, Alaska 99501
Main Phone: (907) 271-1414
Phone: (907) 271-1189
Toll Free: (888) 480-4321
Fax: (907) 271-1415
<http://www.denali.gov>
Nancy Merriman - Project Manager

Alaska Native Tribal Health Consortium

Department of Environmental Health and Engineering
Central Engineering Services
1901 Bragaw Street, Ste 200
Anchorage, Alaska 99508
Phone: 800-560-8637 Ext#3604
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Ted Dickerson- Project Manager



Project Team

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Email: brett@HZA-ENG.COM

Dental Supplier:
Burkhardt Dental Supply Company
Tacoma, WA
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Fax: 253-212-4983
Contact: Carter Barnes

Furniture Supplier:
Capital Office Systems
Anchorage, AK
Phone: 907-777-1522
Fax: 907-777-1516
Contact: Mary Whalen

Index

G-001 - Cover Sheet, Index
V-101 - Survey Control

Civil

- C-001- Civil Legend
- C-101 - Overall Site Plan
- C-102- Detailed Site Plan
- C-103- Grading Plan- North
- C-104- Grading Plan- South
- C-105- Horizontal Control
- C-301- Onsite Wastewater System Plan and Profile
- C-302- Civil Sections
- C-303- Site Section
- C-401 - Concrete Parking Pad Details
- C-501 - Civil Details
- C-502- Sign Details
- C-503- Fence and Gate Details

Architectural

- A-001 – Abbreviations, General Notes, and Drawing Symbols
- A-101 – Site Plan
- A-102 – Floor Plan
- A-103 – Reflected Ceiling Plan
- A-104 – Roof Plan
- A-201 – Exterior Elevations
- A-301 – Building Sections
- A-401 – Wall Sections
- A-402 – Interior Elevations
- A-403 – Interior Elevations & Details
- A-501 – Details
- A-601 – Finish Schedule, Wall Assemblies, & Details
- A-602 – Door/Frame Schedule & Details

Code Information:

IBC 2006
Building Type: V-B (Non-Sprinkled) Allowable SF.: B: 9,000 sf.
Occupancy Group: B-Clinic Actual Building SF.: 6,113 sf.

Furniture & Equipment

Q-101 – Furniture Plan
Q-102 – Exam Room Caseloads
Q-103 – Exam Room Caseloads
Q-104 – Trauma Exam Caseloads
Q-105 – Office Workstations Typical
Q-106 – Furniture Schedule

Dental

D-101 – Dental Plan
D-102 – Dental Plans
D-103 – Dental Details
D-104 – Dental Details
D-105 – Dental Details

Structural

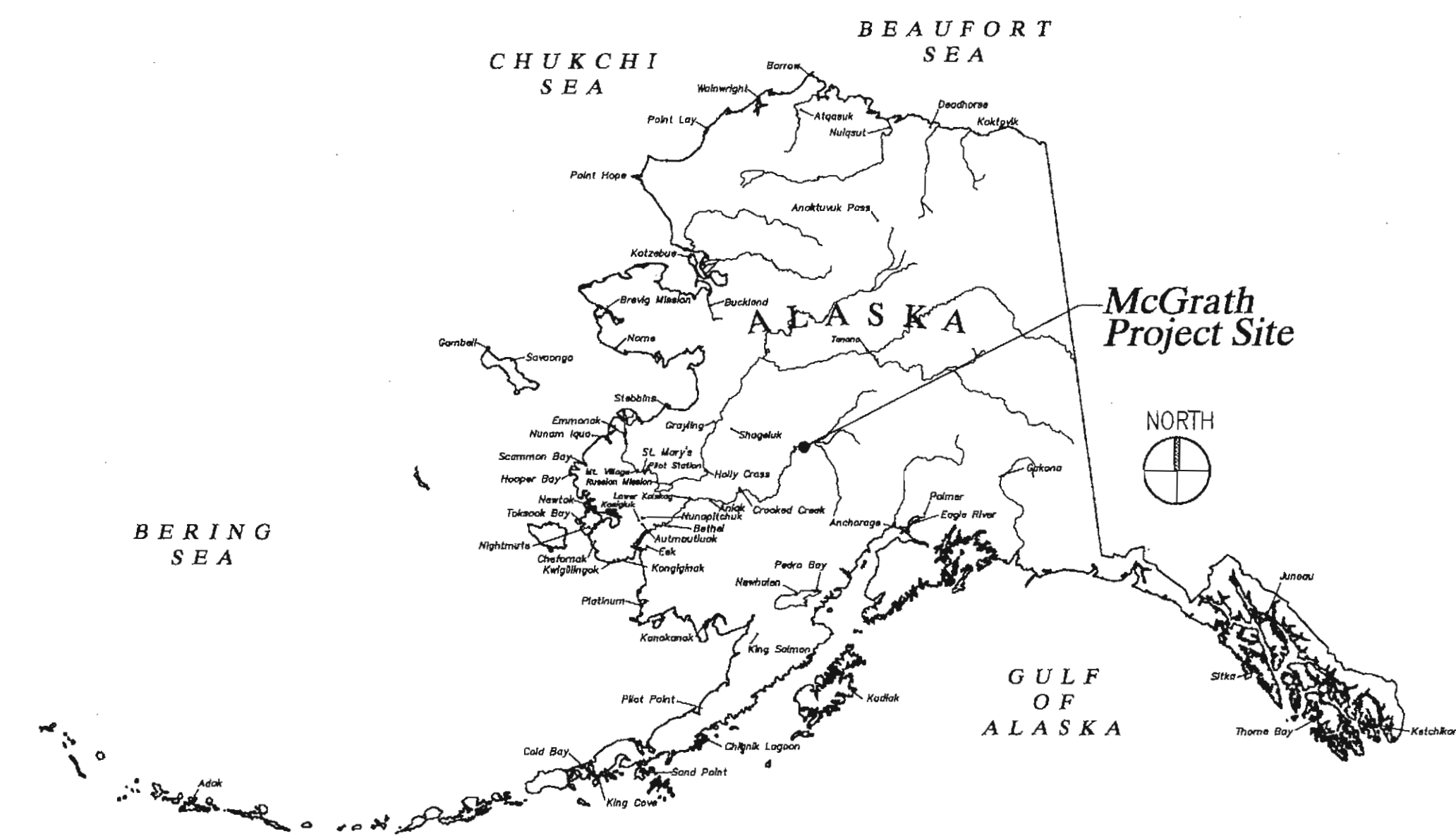
- S1.0 – General Notes
- S2.0 – Foundation Plan
- S2.1 – Foundation Details
- S2.2 – Foundation Details
- S3.0 – Roof Framing Plan
- S3.1 – Roof Details
- S4.0 – Shearwall Framing Plan
- S5.0 – Truss Profiles

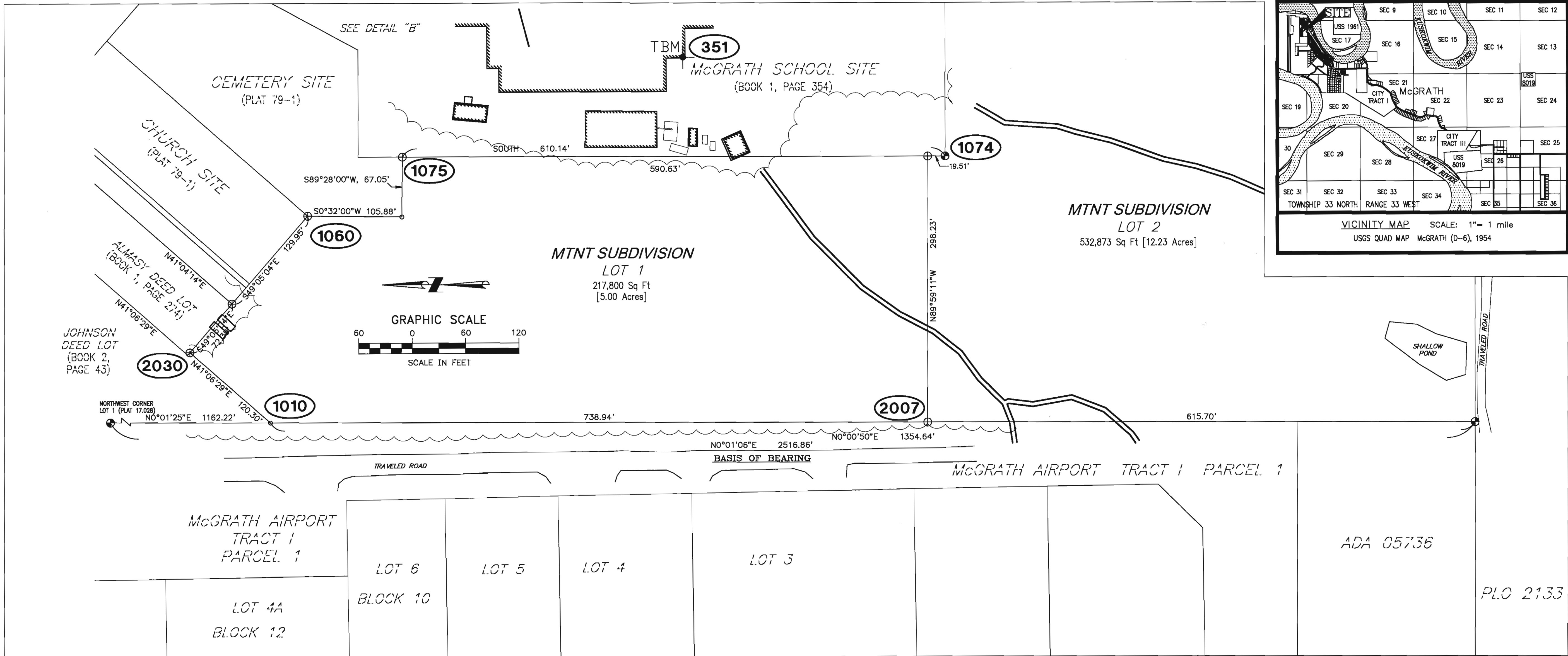
Mechanical

- M0.1 – Equipment, Legend & Abbreviations
- M0.2 – Equipment Schedules
- M1.1 – Crawlspace Plumbing Plan
- M1.2 – Plumbing Plan
- M2.1 – HVAC Plan
- M3.1 – Mechanical Room and Sections
- M4.1 – Mechanical Diagrams and Details
- M5.1 – Mechanical Details

Electrical

- E1.1 – Legend, Fixture Schedule and Details
- E1.2 – Electrical Site Plan
- E2.1 – Lighting Plan
- E2.2 – Crawlspace Lighting and Power Plan
- E3.1 – Power Plan
- E3.2 – Enlarged Power Plans
- E3.3 – Single Line Diagram and Panel Schedules
- E4.1 – Signal Plans
- E4.2 – Signal Details





Vertical Control

Vertical control is based on the NGS Benchmark MCGRATH NW BASE AZ MARK, Elevation = 340.35 feet (NAVD88), described as follows:

The station is located along the east side of McGrath, Alaska at McGrath Airport. The Airport is unrestricted. Contact the Airport Manager a minimum of 48 hours prior to entry. To reach the station from the airport main terminal, proceed northwest 0.09 miles across the apron to a point on the north edge of apron and 125 feet east of the T/W -A- Hold line. Turn right and proceed northerly 467 feet across small aircraft parking, parallel to R/W 16-34, and to the station on the right. The station is a standard CGS Azimuth Mark brass disk stamped: MCGRATH NW BASE 1951

Vertical Control Points				
Pt. No.	Northing	Easting	Elevation	Description
601	53878	196616	340.35	3 1/2" Brass Cap set in concrete, stamped MCGRATH NW BASE 1951, found east of small airplane parking, and 9' west of a Carsinte marker in chain link fence.
351	53175	197647	344.63	X was marked on top, west edge of a conc. pillar support to building overhang at the southwest ent. to McGrath School, pillar is west of said entrance.

FLOOD MANAGEMENT

Flood information gathered from the U.S. Army Corps of Engineers, Pacific Ocean Division, Alaska District, Civil Works Branch, Floodplain Management Services website.
http://www.poa.usace.army.mil/en/cw/fld_haz/mcgrath.htm Floodplain Manager (907) 753-2610

Comments:
Recommended building elevation 340.0 MSL
100-year flood, or Base Flood Elevation 337.7 MSL
Potential ice jam flood 339.0 MSL

Significant flooding also occurred in 1957. It was reported that if the 1957 flood had been 1 foot higher it would have inundated nearly all of the ground in the community. The 1991 flood caused 20 to 30 homes to be flooded.

Horizontal Control

Coordinate System:
This project is a local surface grid coordinate system expressed in U.S. Survey feet. Horizontal data obtained from existing survey of Lots 1 and 2 MTNT SUBDIVISION, done by McClintock Land Associates, Inc. dated 8-08-05.

Horizontal Control Points			
Pt. No.	Northing	Easting	Description
1010	53639.07	197237.05	1/2" Rebar w/ Yellow Plastic Cap, 0.30' above ground, cap not legible, rebar was sticking thru cap.
1060	53597.19	197469.05	1 1/2" ALCAP, 0.30' above ground, cap was damaged, only legible markings were TN S 197
1074	52880.55	197535.11	2" Brass cap set in 6" pipe with concrete, 0.40' below ground, cap good condition, marked COR 4
1075	53490.69	197535.11	1 1/2" ALCAP, flush w/ ground, cap good condition, marked 1981 4609-S
2007	52900.16	197236.85	2" ALCAP, flush w/ ground, cap good condition, marked Clinic C7, ARPT, S1962, MTNT LS-5480, 2005 MLA
2030	53729.72	197316.16	2" ALCAP, 0.30' above ground, cap good cond., marked Clinic C5, ALMASY, S1962, MTNT LS-5480, 2005 MLA

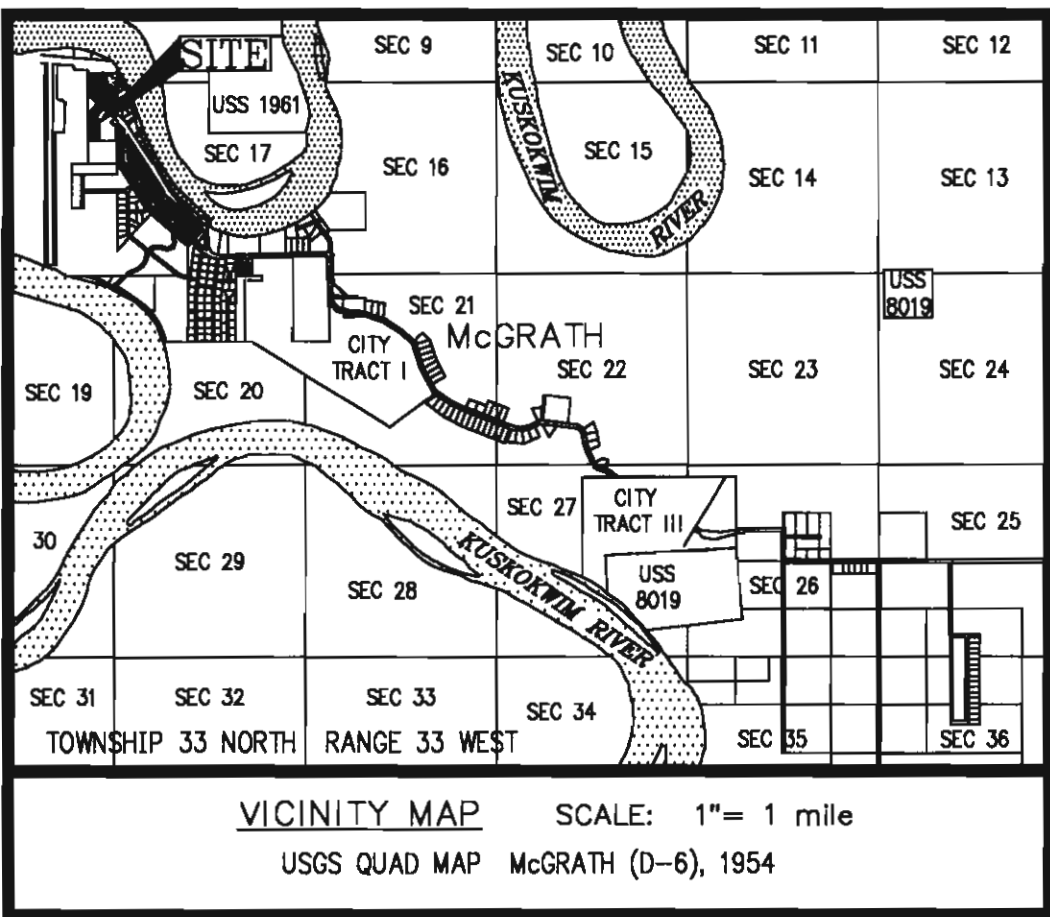
NOTES:

- Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).

Survey

Set	Found
●	⊕ BRASS CAP
⊕	⊕ ALCAP
⊕	⊕ CONTROL MONUMENT (PUBLISHED)
⊕	⊕ GPS CONTROL (LAT. LONG)
⊕	⊕ IRON PIPE
•	○ REBAR
+	⊕ SPIKE
PK	PK
PK	PK OR MAG NAIL
TBM	TBM
+	+
□	□ HUB

1000 Control Point Number



DATE	REVISIONS	INIT



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1901 Bragaw Street, Suite 200
ANCHORAGE, ALASKA 99508-3440
(907) 729-3600



MCGRATH SUB-REGIONAL HEALTH CENTER SURVEY CONTROL 100% DESIGN DRAWINGS			
DATE: APRIL 2009	PROJ MGR: TD		
DRAWN BY: TSN	PROJ SURV: MS		
CHECKED BY: MS	TUS ENG:		
		LAYOUT: V-101	

CIVIL/SURVEY LEGEND

SYMBOLS

Water

Proposed Existing

- FH FIRE HYDRANT
- WV WATER VALVE
- WKB WATER KEY BOX
- ARV AIR RELIEF VALVE
- BOV BLOW OFF VALVE
- WELL

Electric & Telephone Communication

- LIGHT POLE
- UTILITY POLE
- ELECTRIC PED
- ELECTRIC METER
- GUY ANCHOR
- GUY POLE
- ELECTRICAL TRANSFORMER
- THERMISTOR
- TELEPHONE PED
- TELEPHONE BOOTH
- CABLE PED
- SATELLITE DISH

Sanitary Sewer

Proposed Existing

- SEWER MANHOLE
- SEWER CLEANOUT
- SEPTIC VENT
- SEPTIC CLEANOUT (MONITOR TUBE)
- SEWAGE LIFT STATION
- RESIDENTIAL EFFLUENT PUMP STATION

Survey

Set Found

- BRASS CAP (3 3/4")
- BRASS CAP (3 1/4")
- ALCAP
- CONTROL MONUMENT (PUBLISHED)
- GPS CONTROL (LAT. LONG)
- IRON PIPE
- REBAR
- SPIKE
- PK OR MAG NAIL
- TBM
- HUB

Miscellaneous

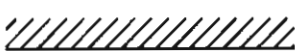
- TEST PIT
- SOILS BORE
- SIGN/PRIVATE
- SIGN/TRAFFIC
- BOLLARD
- GATE POST
- FLAG POLE

DETAIL LEGEND

- VIEW TITLE
- SHEET NUMBER
- CALL OUT BUBBLE
- VIEW TITLE
- SHEET NUMBER
- SECTION INDICATOR

SITE PLAN

EXISTING



STRUCTURES



ROADS (PAVED)



ROADS (UNPAVED)



PROPERTY LINE



COMMUNICATIONS LINE



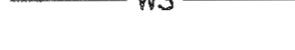
POWER LINE



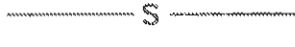
SEWER SERVICE LINE



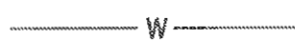
WATER SERVICE LINE



SEWER LINE



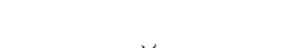
WATER LINE



FORCE MAIN



FENCE



UTILIDOR



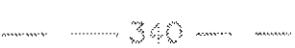
RAILROAD



CONTOUR



DRAINAGE SWALE



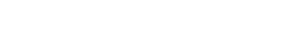
CONCRETE, 4" THICK



CONCRETE, 6" THICK



AGGREGATE BASE COURSE



PREPARED SUBGRADE



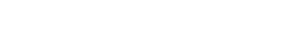
SUBBASE MATERIAL



UNCLASSIFIED MATERIAL

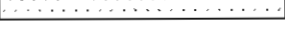
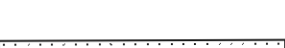
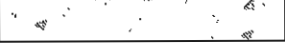
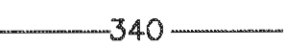
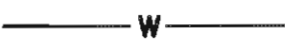
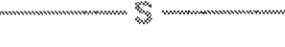


TOPSOIL



ROCK LINE DITCH

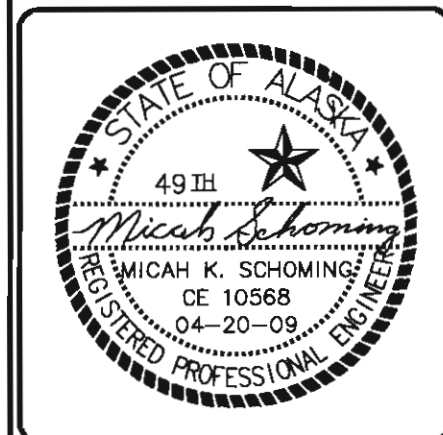
PROPOSED



COMMON ABBREVIATIONS

ABS	ACRYLONITRILE BUTADIENE STYRENE	INV	INVERT
ALUM	ALUMINUM	LS	LIFT STATION
AS	ASPHALT	LF	LINEAR FEET
AWH	AUTOMATIC WATER HEATER	MH	MANHOLE
BC	BOTTOM OF CURB	MAX	MAXIMUM
BOT	BOTTOM	MIN	MINIMUM
CL	CENTERLINE	NFS	NON-FROST SUSCEPTIBLE
CO	CLEANOUT	N.C.	NORMALLY CLOSED
CONC	CONCRETE	N.O.	NORMALLY OPEN
LNK	CHAIN LINK	N	NORTH
CW	COLD WATER	NTS	NOT TO SCALE
CON	CONCRETE	NO	NUMBER
CMP	CORRUGATED METAL PIPE	OS	OFFSET
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
E	EAST	PP	POWER POLE
ELL	90° ELBOW	PT	PRESSURE TANK
EL	ELEVATION	REQ'D	REQUIRED
EQUIL	EQUIVALENT	REPS	RESIDENTIAL EFFLUENT PUMPING STATION
FT	FEET, FOOT	SIM	SIMILAR
FF	FINISHED FLOOR	S	SOUTH
FH	FIRE HYDRANT	SAS	SOIL ABSORPTION SYSTEM
FLG	FLANGE	SS	STAINLESS STEEL
FM	FORCE MAIN	STA	STATION
FND	FOUND	STL	STEEL
GA	GAGE	TC	TOP OF CURB
GALV	GALVANIZED	TW	TREATED WATER
GB	GRADE BREAK	TYP	TYPICAL
GRV	GRAVEL	U.O.N.	UNLESS OTHERWISE NOTED
HGR	HEATED GLYCOL RETURN	WWTF	WASTE WATER TREATMENT FACILITY
HGS	HEATED GLYCOL SUPPLY	WTP	WATER TREATMENT PLANT
HDPE	HIGH DENSITY POLYETHYLENE	WST	WATER STORAGE TANK
HP	HORSEPOWER	W	WEST
HB	HOSE BIBB	WD	WOOD
HW	HOT WATER		
ID	INSIDE DIAMETER		
INT	INTERSECTION		

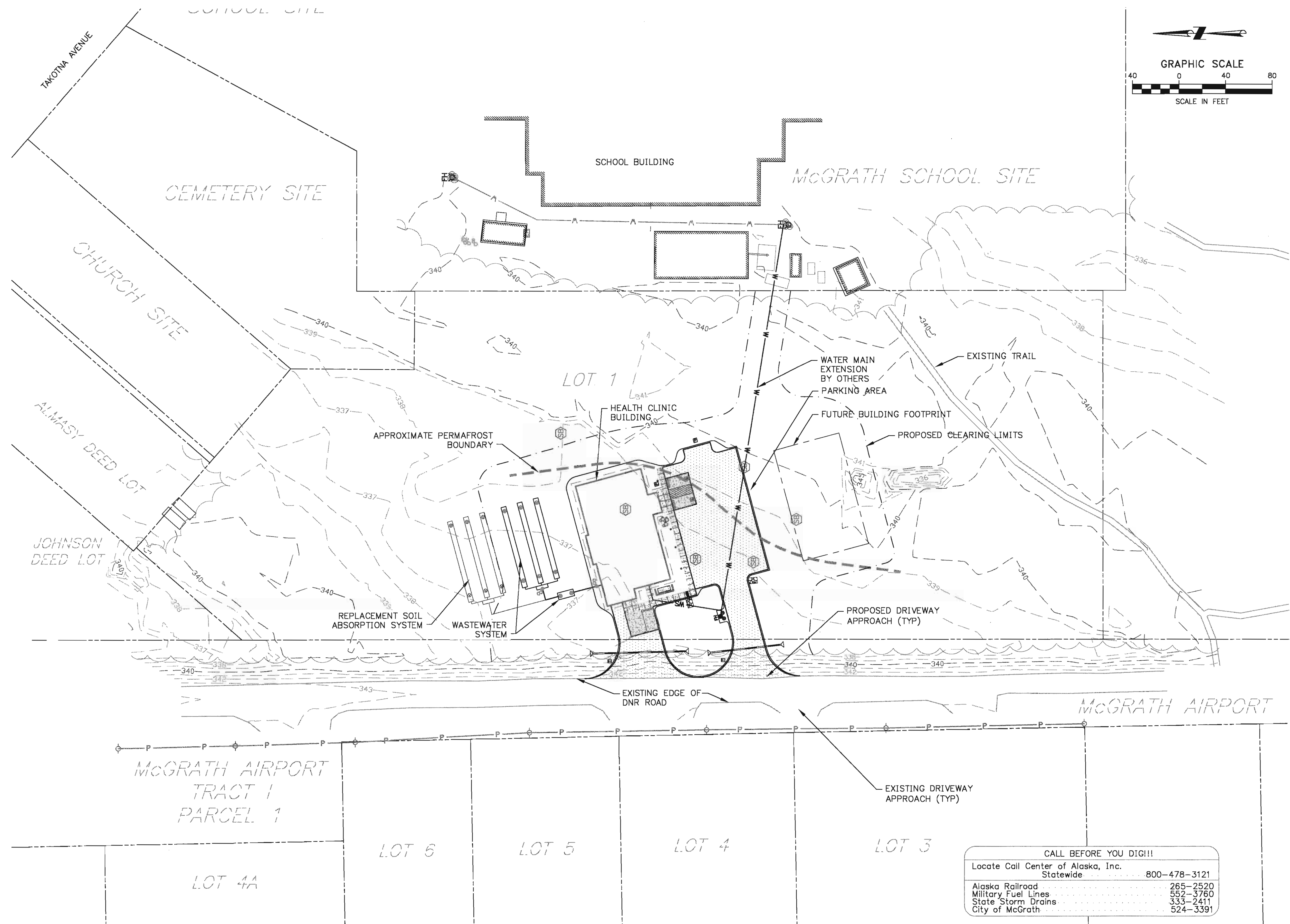
CALL BEFORE YOU DIG!!!	
Locate Call Center of Alaska, Inc.	800-478-3121
Statewide	
Alaska Railroad	265-2520
Military Fuel Lines	552-3760
State Storm Drains	333-2411
City of McGrath	524-3391

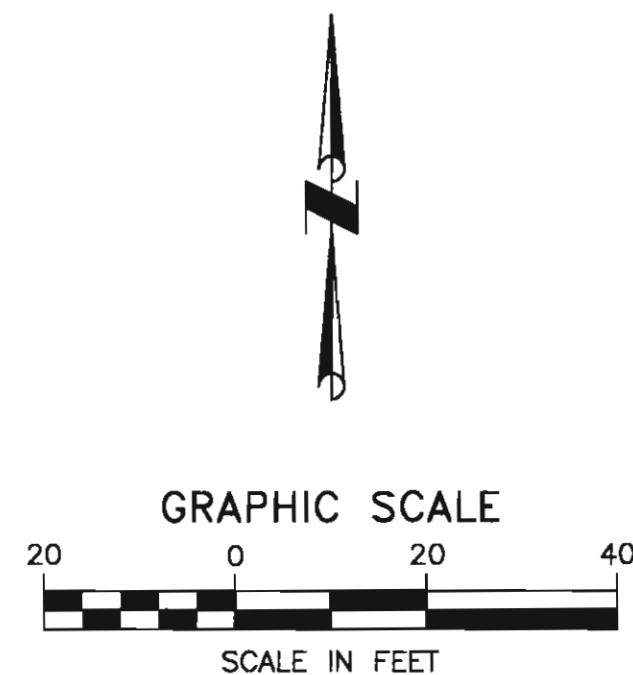


ALASKA NATIVE TRIBAL HEALTH CONSORTIUM
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(907) 729-3600



McGRATH SUB-REGIONAL HEALTH CENTER	
100% DESIGN DRAWINGS	
DATE: APRIL 2009	PROJ MGR: TD
DRAWN BY: TSN	PROJ ENG: MS
CHECKED BY: MS	TUS ENG:
FILE: MCG-C-STLGND	LAYOUT: C-001



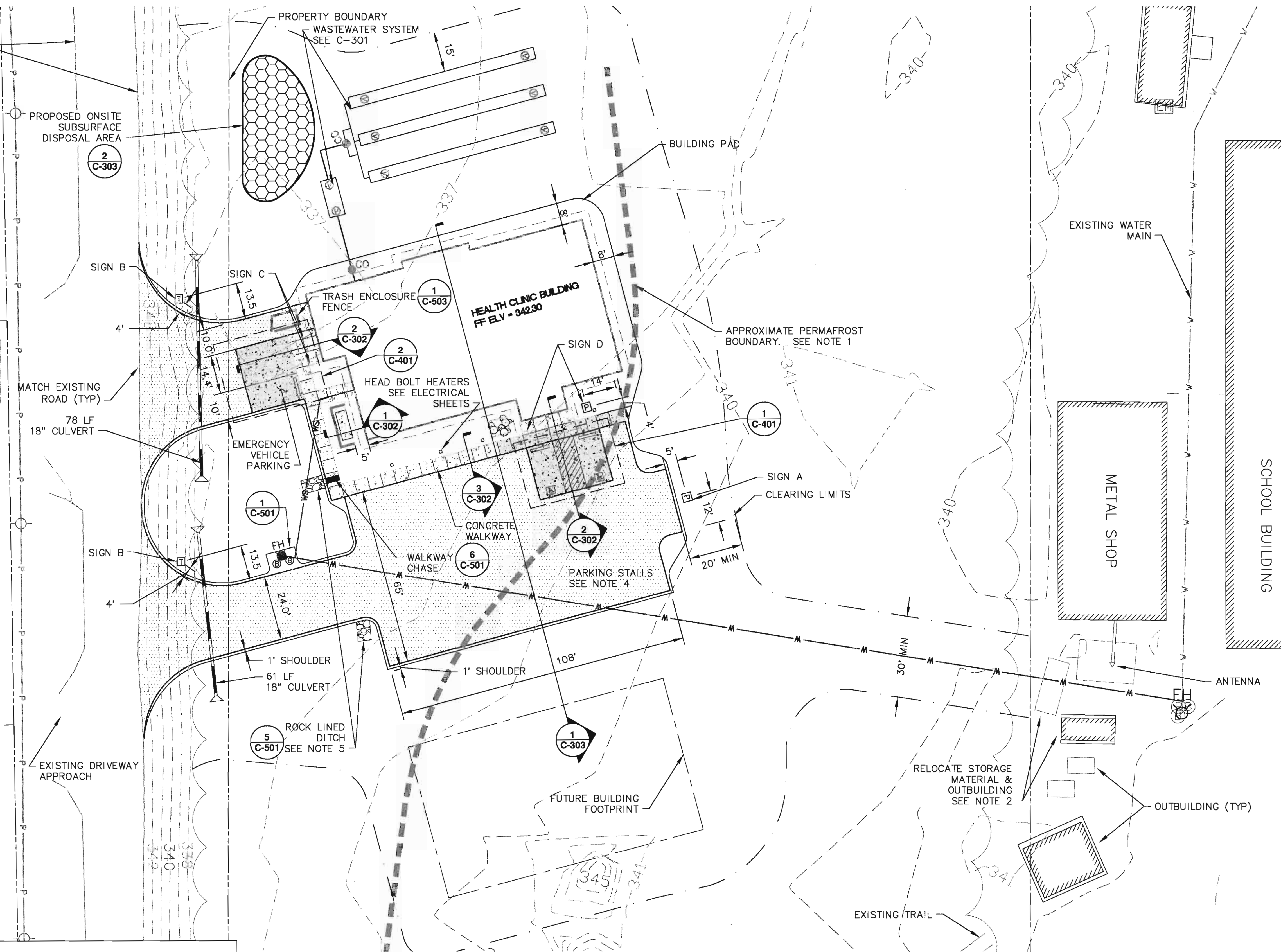


CALL BEFORE YOU DIG!!!
Locate Call Center of Alaska, Inc.
Statewide 800-478-3121
Alaska Railroad 265-2520
Military Fuel Lines 552-3760
State Storm Drains 333-2411
City of McGrath 524-3391

- NOTES:
1. APPROXIMATE PERMAFROST BOUNDARY LINE TAKEN FROM GEOTECHNICAL REPORT TITLED, "MCGRATH HEALTH CENTER, MCGRATH ALASKA" DATED JANUARY 2009..
 2. THE WATER MAIN, WATER SERVICE AND FIRE HYDRANT WILL BE INSTALLED BY THE CITY OF MCGRATH PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MCGRATH FOR THE INSTALLATION AND ACCESS OF THIS UTILITY DURING CONSTRUCTION.
 3. LOT CONTAINS 20 PARKING STALLS. TYPICAL PARKING STALL DIMENSIONS SHALL BE 10X20'. FOUR ACCESSIBLE LOADING/UNLOADING ZONES ARE INCLUDED IN THIS PARKING LOT; TWO OF THESE FOUR SHALL BE CONSTRUCTED THIS PROJECT.
 4. REMOVE ALL ORGANIC MATERIAL BELOW FILL MATERIAL FOOTPRINT.
 5. MATCH INVERT OF THE ROCK LINED DITCH TO THE FLOW PATH OF RUNOFF.

SIGN SUMMARY					
SIGN	DESIGNATION	LEGEND	SIZE	FACING	POST TYPE
A	R7P-101	NO PARKING ANY TIME	18" X 24"	WEST	2" x 2"
B	R1-1	STOP	30" X 30"	EAST	2-1/2" x 2-1/2"
C	*	*	18" X 24"	WEST	AFFIX TO COLUMN SUPPORT FOR ROOF OVERHANG
D	R7-8	RESERVED PARKING	12" X 18"	SOUTH	EAST SIGN-2" X 2" WEST SIGN-AFFIX TO COLUMN SUPPORT FOR ROOF OVERHANG
E	R7-8A	VAN ACCESSIBLE	12" X 6"	SOUTH	UNDER SIGN D-EAST

• SPECIAL SIGN SEE 1/C-502

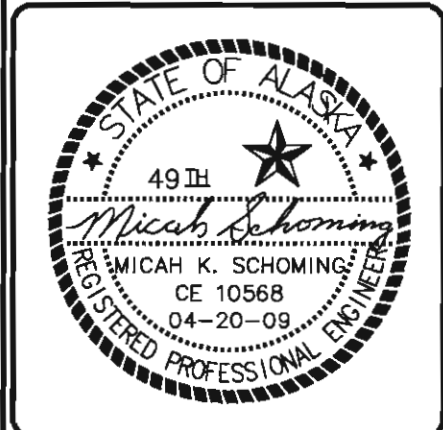


1 DETAILED SITE PLAN
Scale: 1"=20'

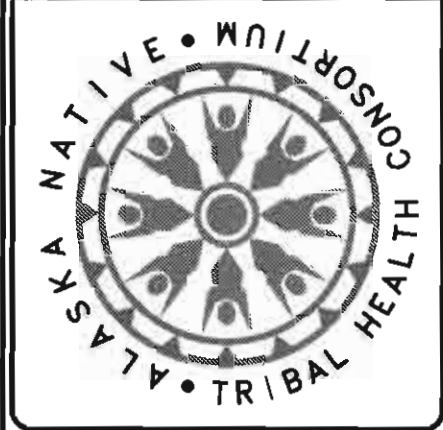
MASS EARTHWORK QUANTITIES						
CUT		FILL			WASTE	
ORGANICS	UNCLASSIFIED	ORGANICS	UNCLASSIFIED	CLASSIFIED	ORGANICS	UNCLASSIFIED
(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)
900	1500	770	1200	2323	130	300

- MASS EARTHWORK QUANTITIES NOTES:
1. VOLUME CALCULATIONS ASSUME 18 INCHES OF ORGANIC AND UNCLASSIFIED MATERIAL BELOW DRIVEWAY, PARKING LOT AND BUILDING PAD FILL WILL BE EXCAVATED. OTHER DISTURBED AREAS WILL ONLY REMOVE 6 INCHES OF ORGANIC MATERIAL.
 2. THE EARTHWORK VOLUMES PRESENTED ON THIS SHEET ARE APPROXIMATE AND SHOULD NOT BE USED FOR BIDDING PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL EARTHWORK VOLUMES FOR REQUIRED MATERIAL VOLUMES.

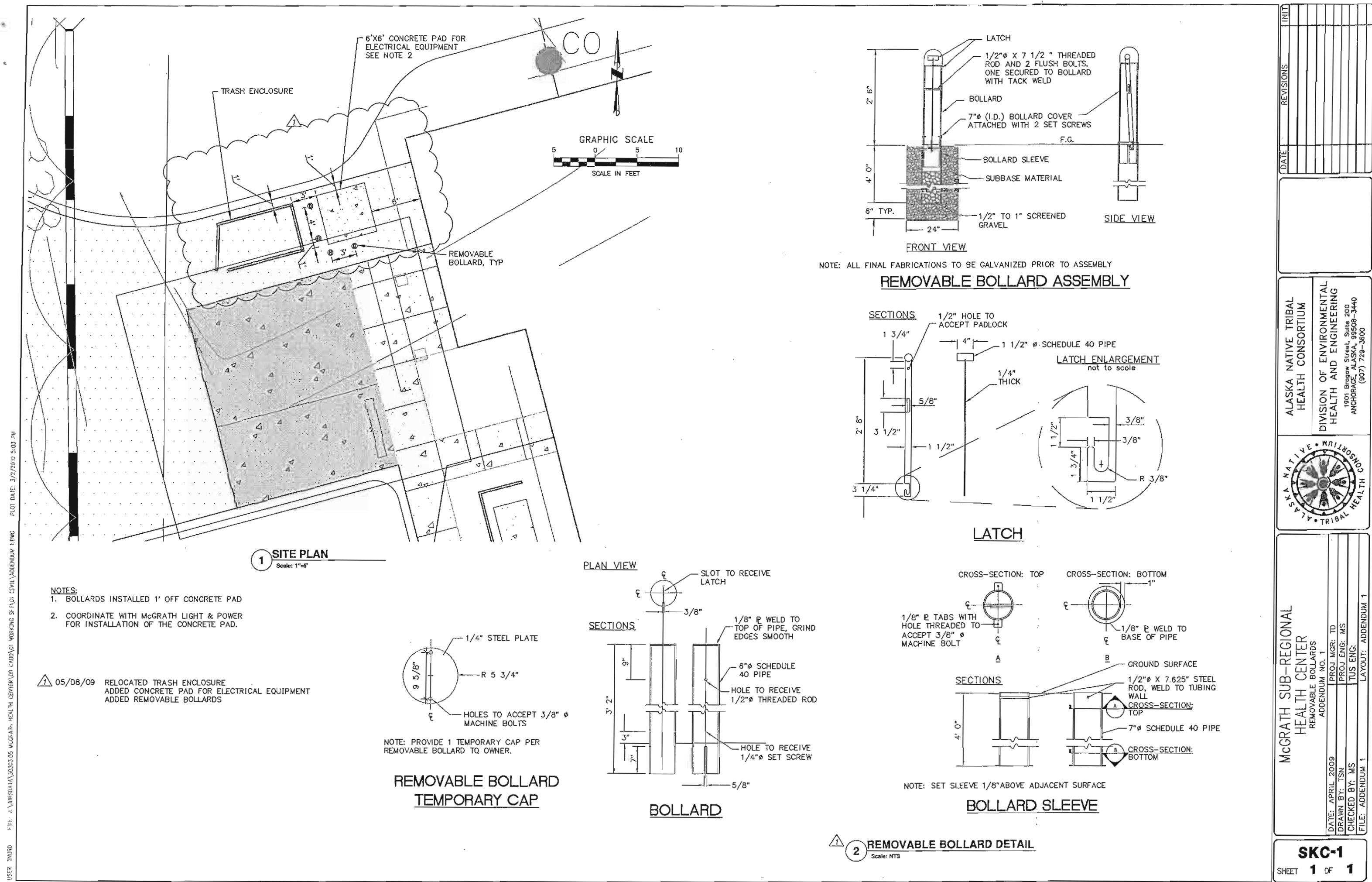
DATE	REVISIONS	INIT



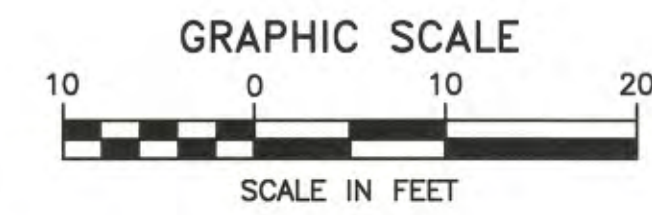
ALASKA NATIVE TRIBAL HEALTH CONSORTIUM
DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING
1901 Bragaw Street, Suite 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



MCGRATH SUB-REGIONAL HEALTH CENTER		DATE: APRIL 2009	PROJ MGR: TD
HEALTH CENTER		DRAWN BY: TSN	PROJ ENG: MS
DETAILED SITE PLAN		CHECKED BY: MS	TUS ENG:
100% DESIGN DRAWINGS		FILE: MCG-C-ST/SITE2	LAYOUT: C-102



SEE SHEET C-103



STATE OF ALASKA
49th
Micah K. Schoming
MICAH K. SCHOMING
CE 10568
04-20-09
REGISTERED PROFESSIONAL ENGINEERS

ALASKA NATIVE TRIBAL
HEALTH CONSORTIUM

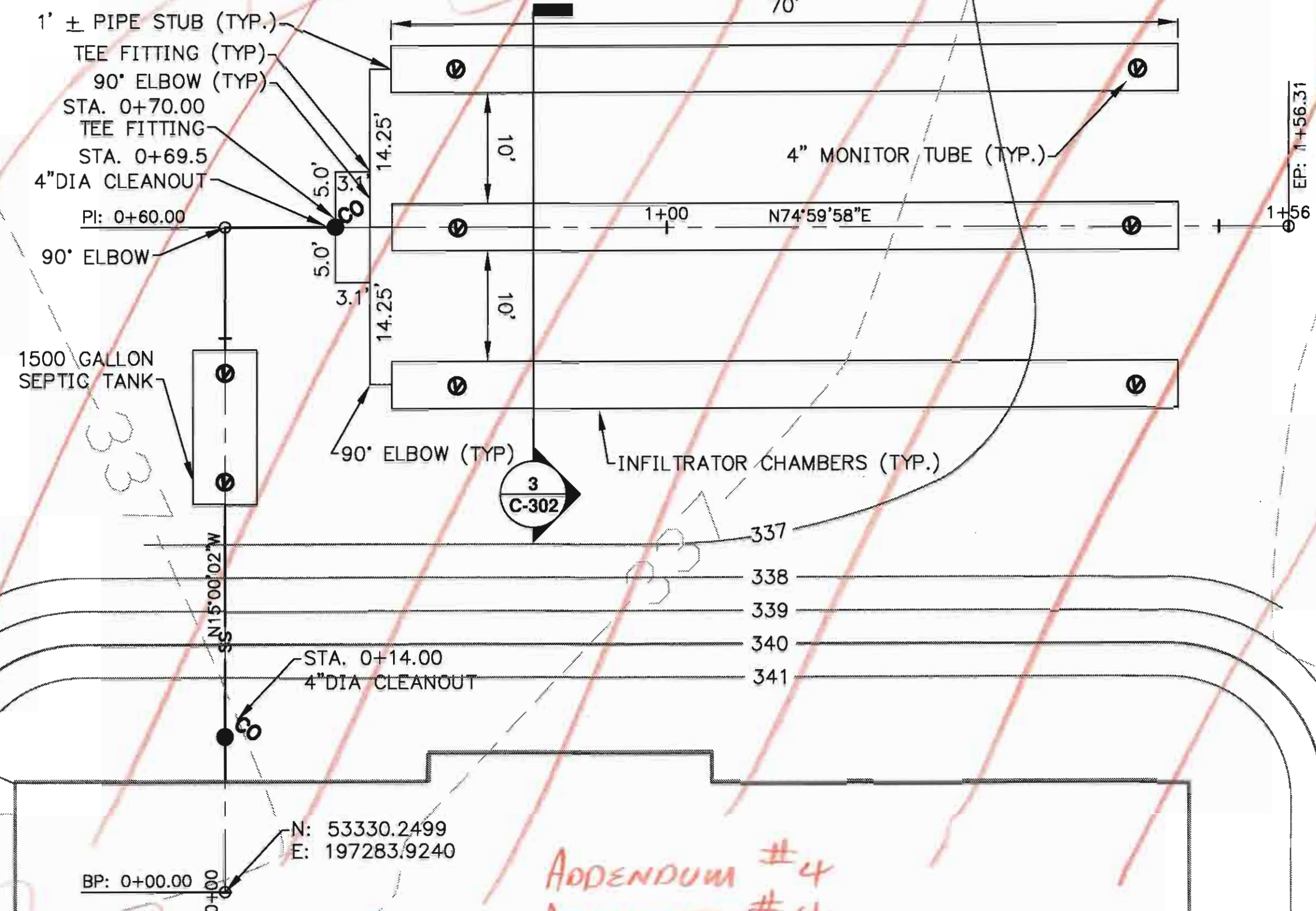
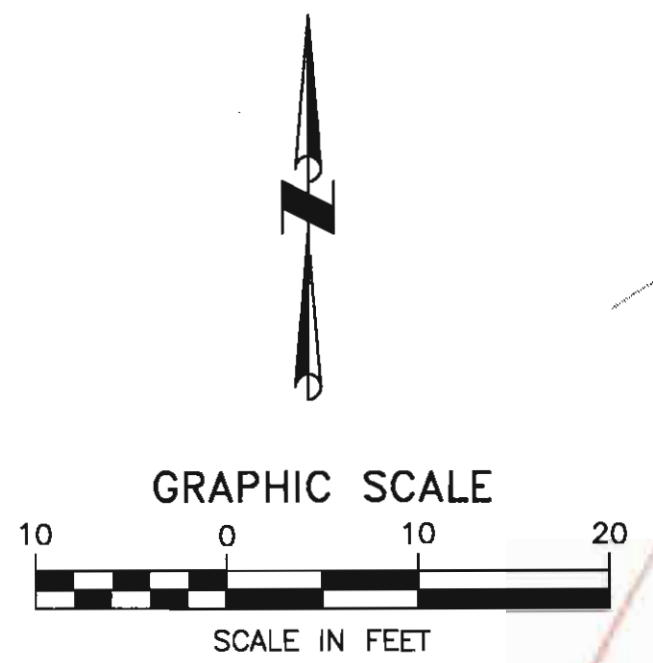
DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING

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(907) 729-3600



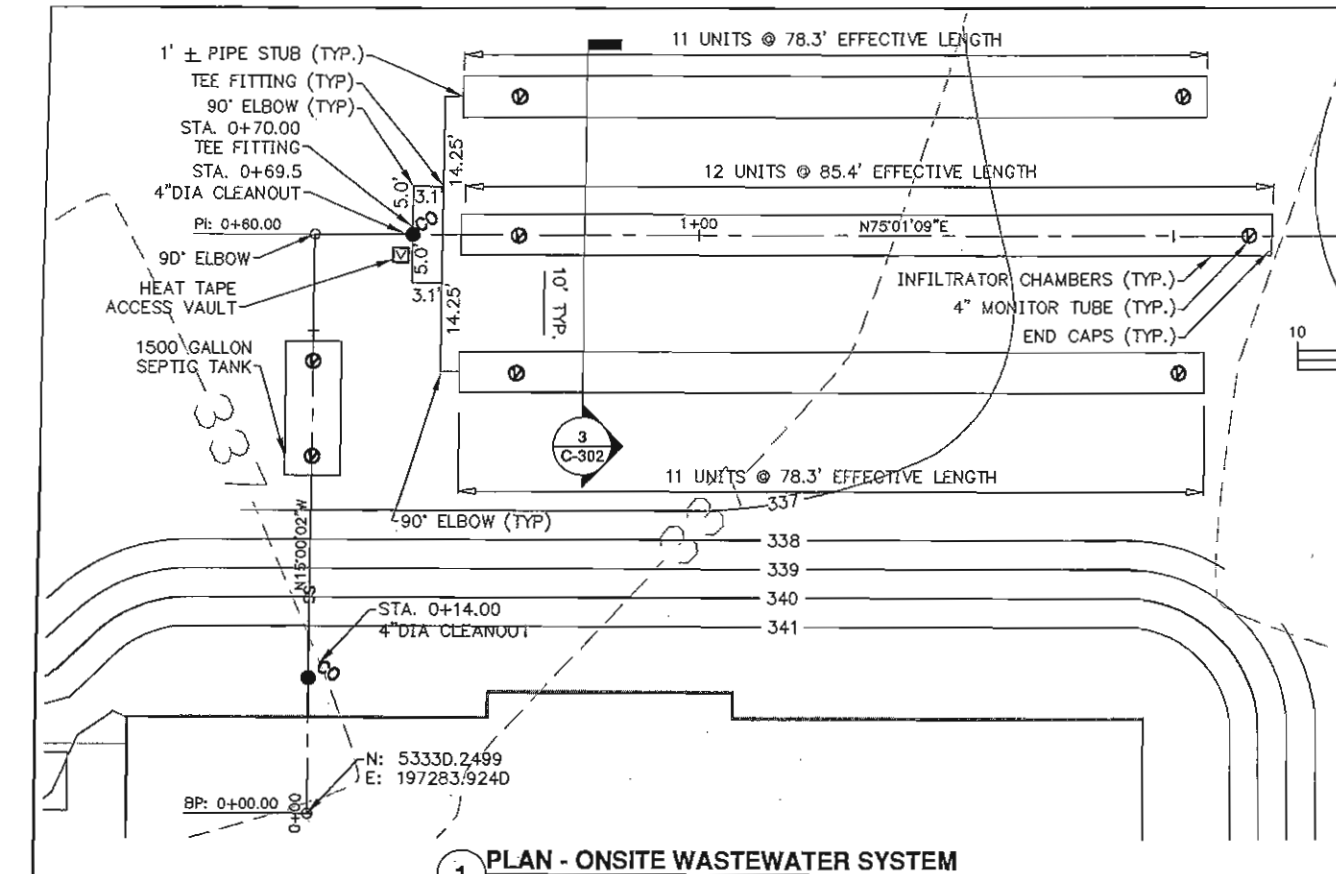
C-104
ET **5** OF **13**

1 GRADING PLAN

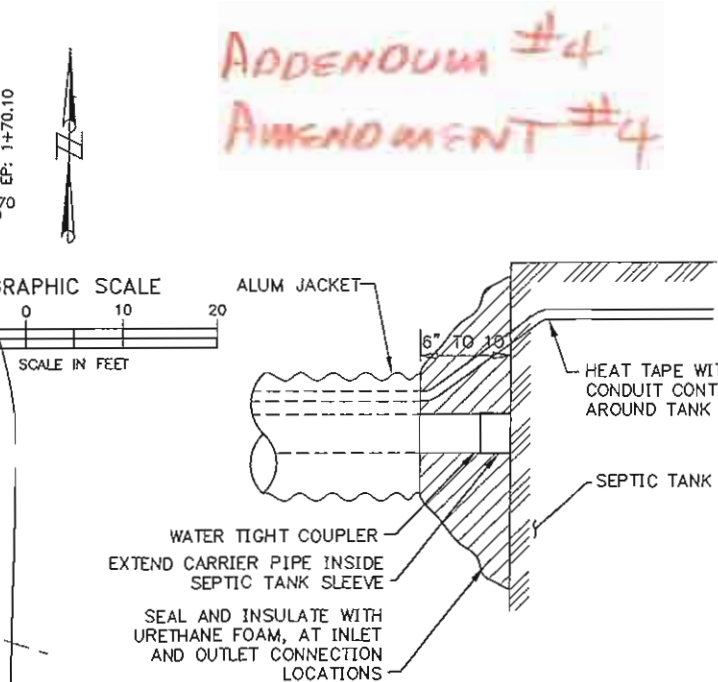


1 PLAN - ONSITE WASTEWATER SYSTEM

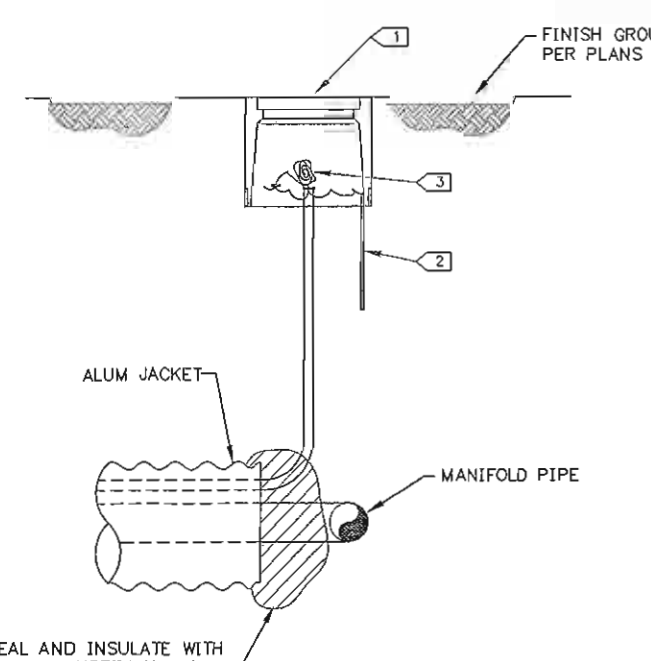
- NOTES:
1. DIRECTION OF CLEANOUTS SHALL SWEEP TOWARD SEPTIC TANK
 2. WASTEWATER SYSTEM SHALL BE INSTALLED PER STATE OF ALASKA REGULATIONS 18 AAC 72
 3. WASTEWATER SYSTEM SHALL INCLUDE 4" OF INSULATION CONTINUOUSLY FROM FOUNDATION WALL TO END OF SAS TRENCH. WIDTH SHALL COVER ENTIRE AREA OF TANK AND INFILTRATOR PLUS 1' OVERHANG EACH SIDE. WIDTH OF INSULATION OVER PIPE PER 5/C-302.
 4. INSTALL BEDDING MATERIAL FOR PIPE AND SEPTIC PER SPECIFICATIONS.



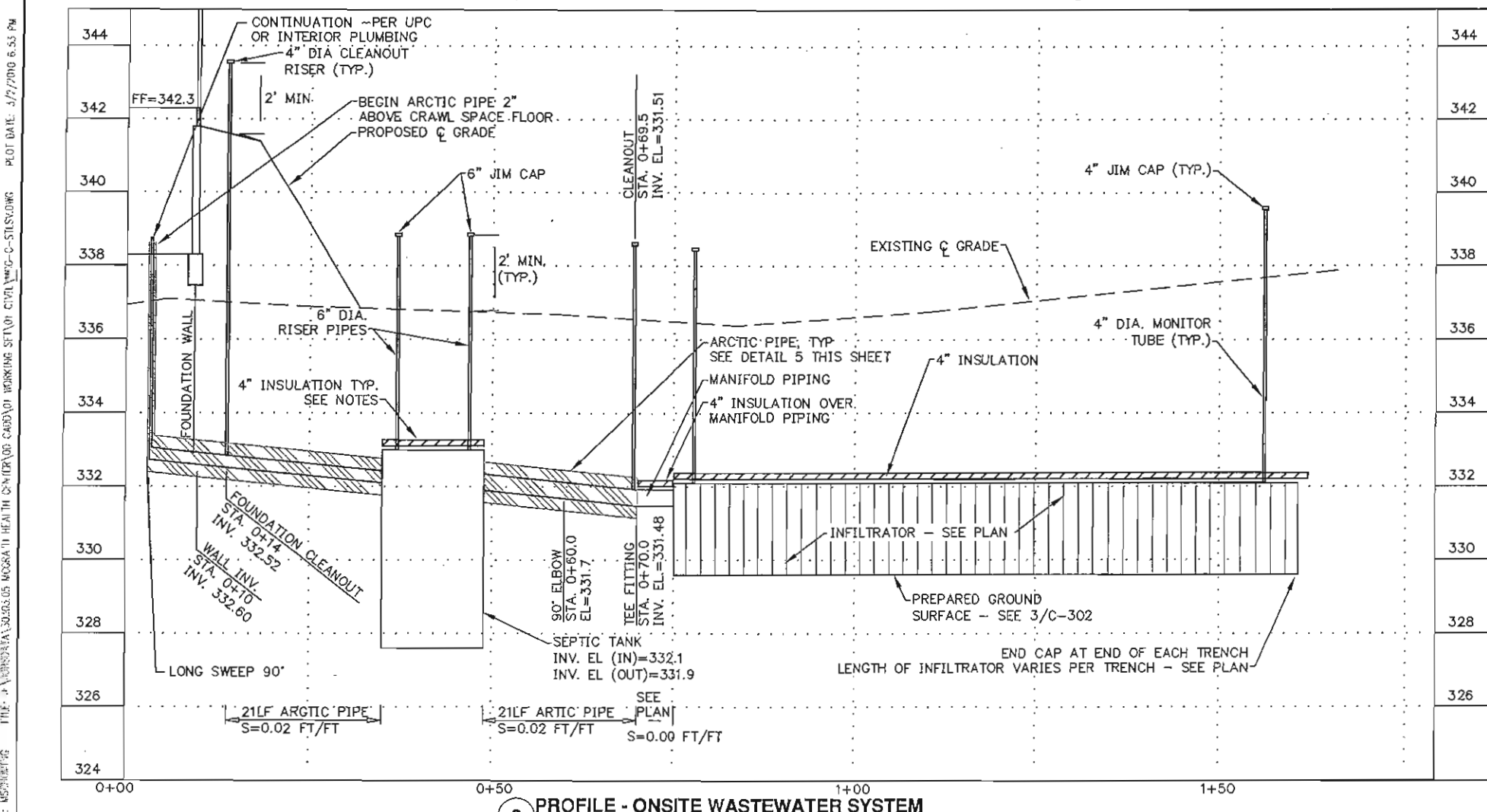
1 PLAN - ONSITE WASTEWATER SYSTEM



3 ARCTIC PIPE CONNECTION/TERMINATION



4 HEAT TAPE ACCESS VAULT DETAIL



2 PROFILE - ONSITE WASTEWATER SYSTEM

- ACCESS VAULT NOTES:
1. U/G JUNCTION BOX QUAZITE.
 2. 1" RSC RISER WITH RODED SWEEP. PROVIDE BUSHING W/GROUND LUG AT TAP. BOND ALL CONDUITS. CONTINUE CONDUIT RUN IN ACCESS TEE USING NON-METALLIC FLEX AND APPROPRIATE ADAPTERS TO CONNECT TO HEAT TAPE CHASE.
 3. COIL PULL ROPE FROM OUTFALL RETURN LINE FOR FUTURE HEAT TAPE REMOVAL/INSTALLATION PROCEDURE.
- GENERAL NOTES:
1. DIRECTION OF CLEANOUTS SHALL SWEEP TOWARD SEPTIC TANK
 2. WASTEWATER SYSTEM SHALL BE INSTALLED PER STATE OF ALASKA REGULATIONS 18 AAC 72
 3. WASTEWATER SYSTEM SHALL INCLUDE 4" OF INSULATION AS SHOWN ON THE DRAWING. WIDTH SHALL COVER ENTIRE AREA OF TANK AND INFILTRATOR PLUS 1' OVERHANG EACH SIDE. WIDTH OF INSULATION OVER PIPE PER 5/C-302.
 4. INSTALL BEDDING MATERIAL FOR PIPE AND SEPTIC PER SPECIFICATIONS.
 5. PLAN LAYOUT ASSUMES INFILTRATION MODEL 3050 INSTALLED.

5 ARCTIC PIPE DETAILS

CONTINUATION -PER UPC
OR INTERIOR PLUMBING
LONG SWEEP 90°

DATE	REVISIONS	INIT



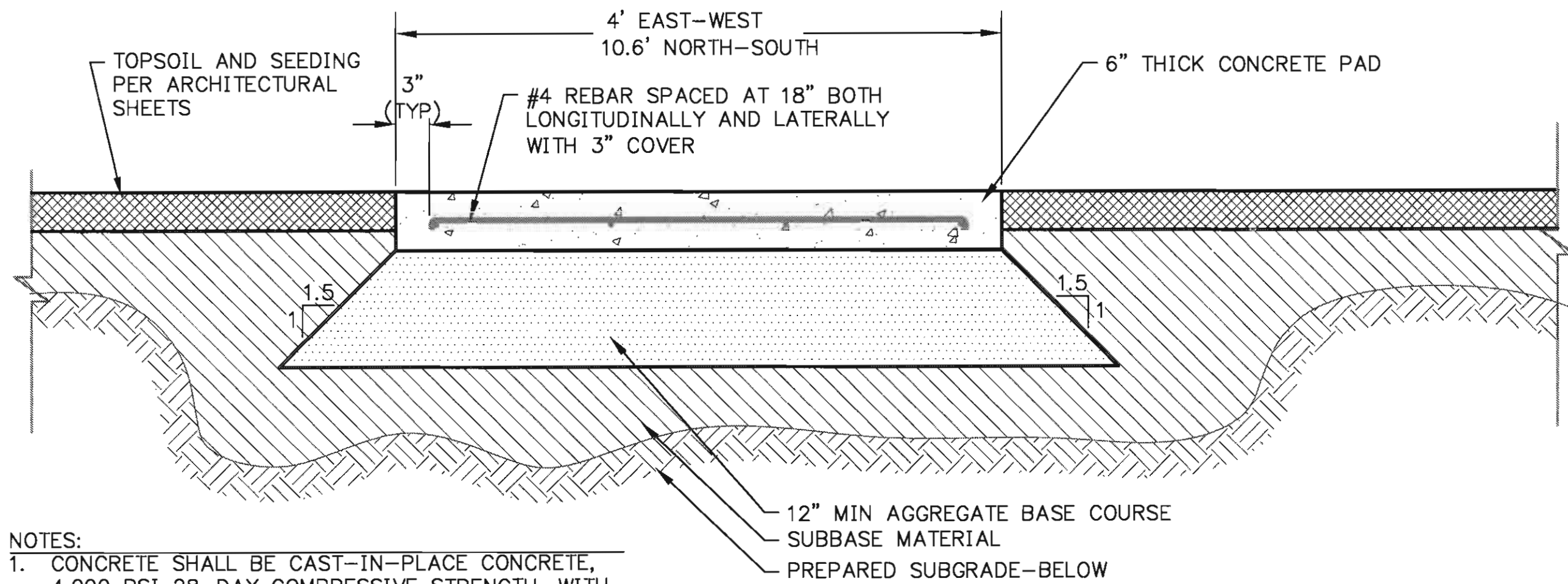
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HEALTH CONSORTIUM
DIVISION OF ENVIRONMENTAL
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(907) 729-3600



McGRATH SUB-REGIONAL
HEALTH CENTER
ONSITE WASTEWATER SYSTEM PLAN AND PROFILE
100% DESIGN DRAWINGS

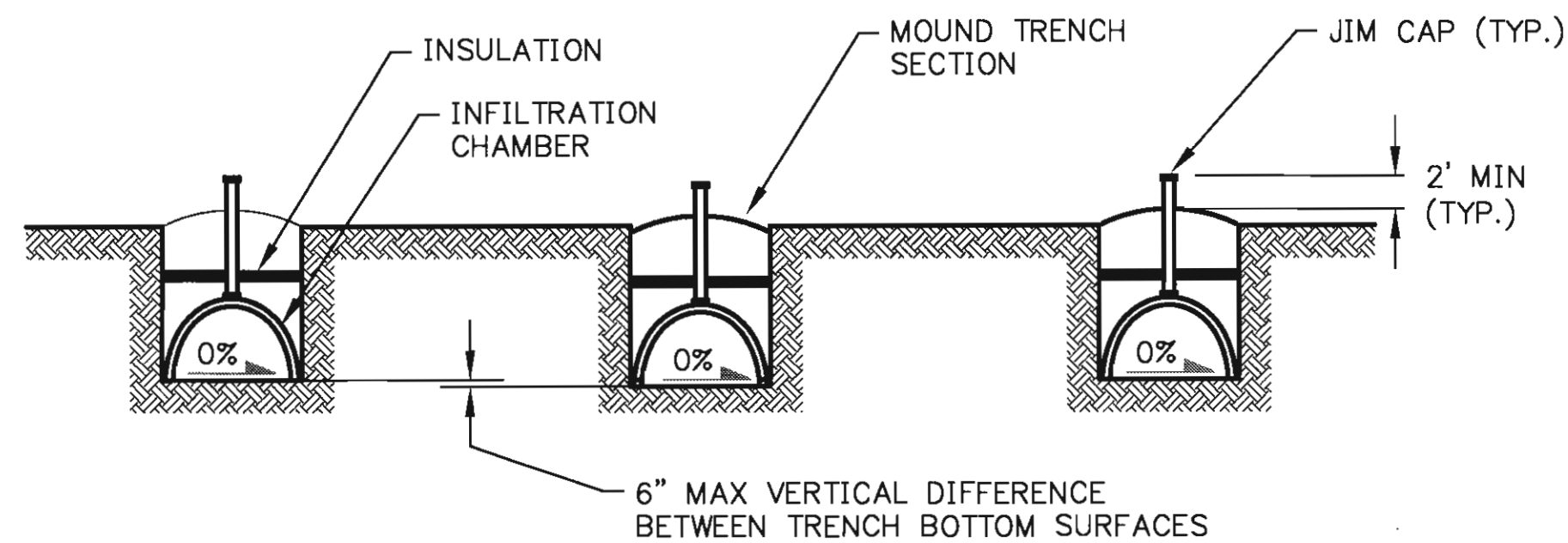
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FILE: MCG-C-STLSV

PROJ MGR: TD
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TUS ENG: MS
LAYOUT: C-301

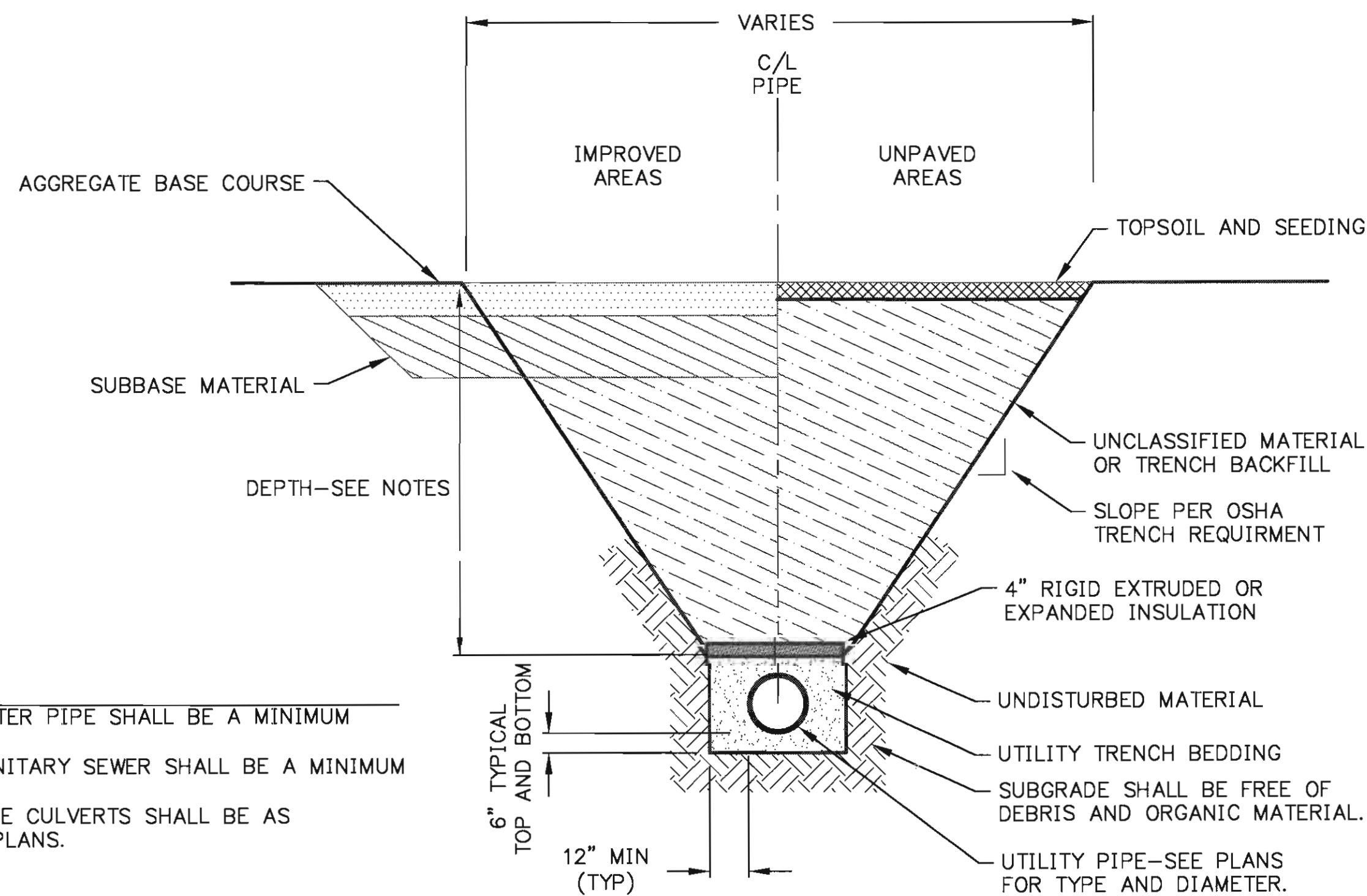


- NOTES:
1. CONCRETE SHALL BE CAST-IN-PLACE CONCRETE, 4,000 PSI 28-DAY COMPRESSIVE STRENGTH, WITH A 6 INCH MINIMUM THICKNESS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF MECHANICAL ANCHORAGE.
 3. REBAR REINFORCEMENT GRADE 60

1 CONCRETE PAD FOR FUEL TANK
Scale: NTS

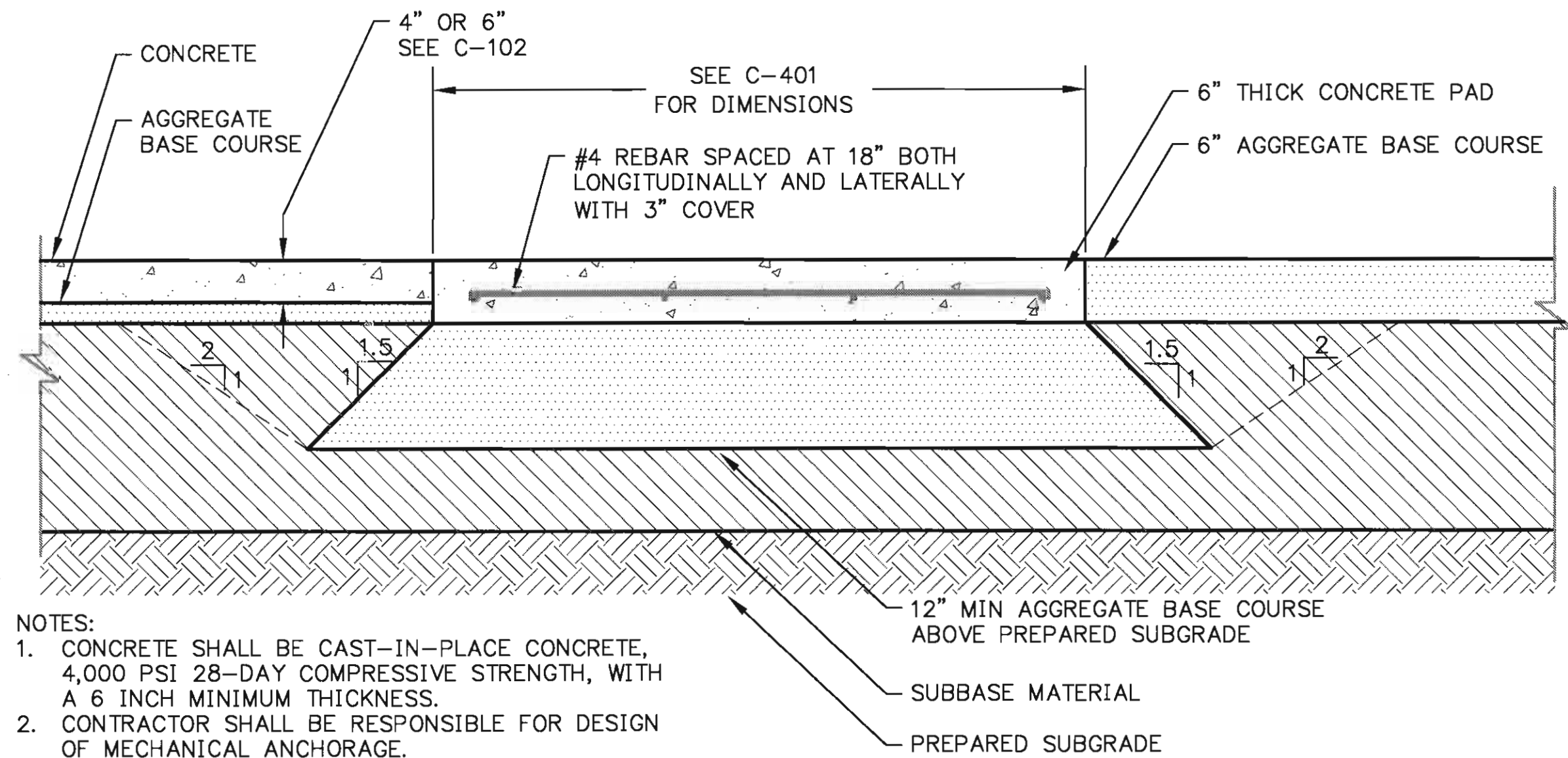


3 INFILTRATOR SECTION
Scale: NTS



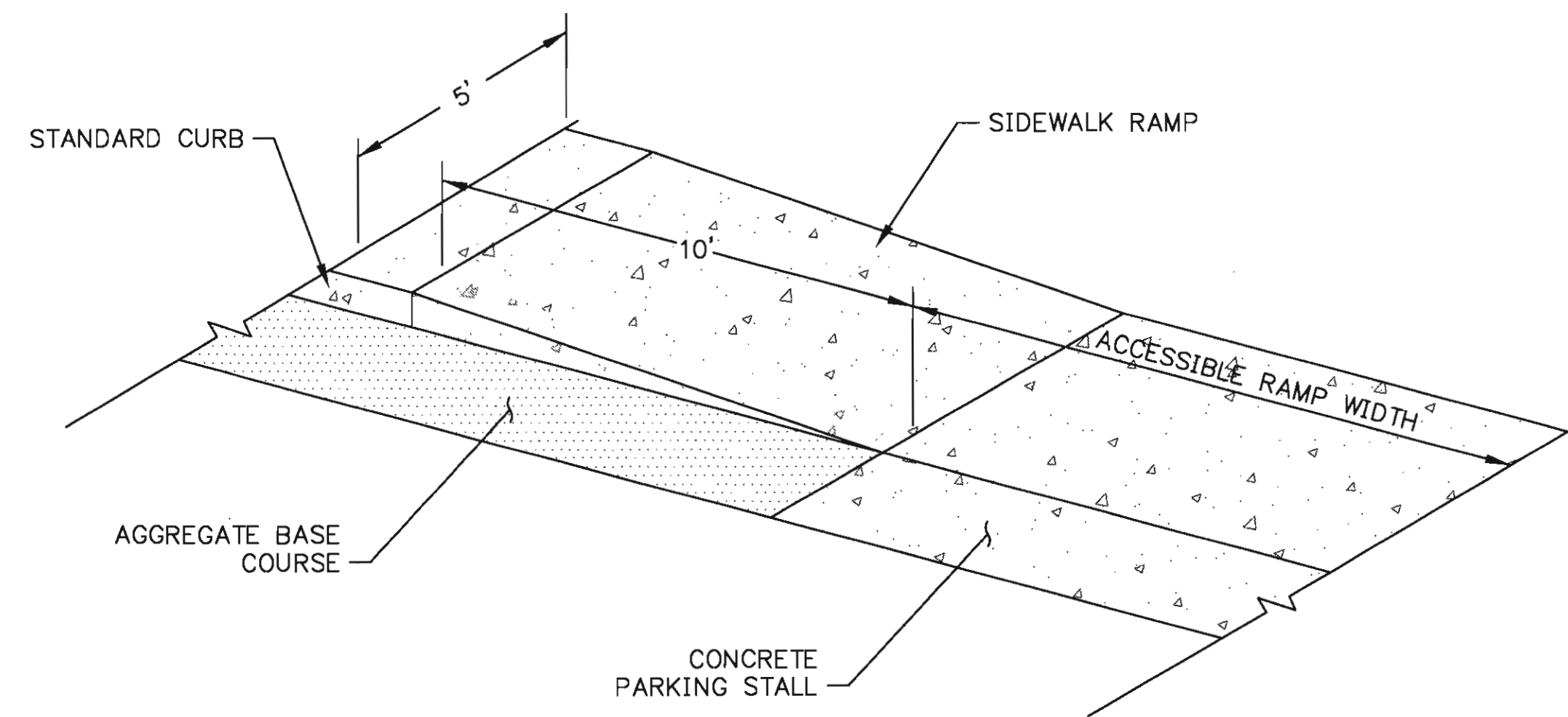
- NOTES:
1. DEPTH FOR WATER PIPE SHALL BE A MINIMUM OF 5'.
 2. DEPTH FOR SANITARY SEWER SHALL BE A MINIMUM OF 4'.
 3. DEPTHS OF PIPE CULVERTS SHALL BE AS SPECIFIED IN PLANS.

5 TYPICAL UTILITY TRENCH SECTION
Scale: NTS

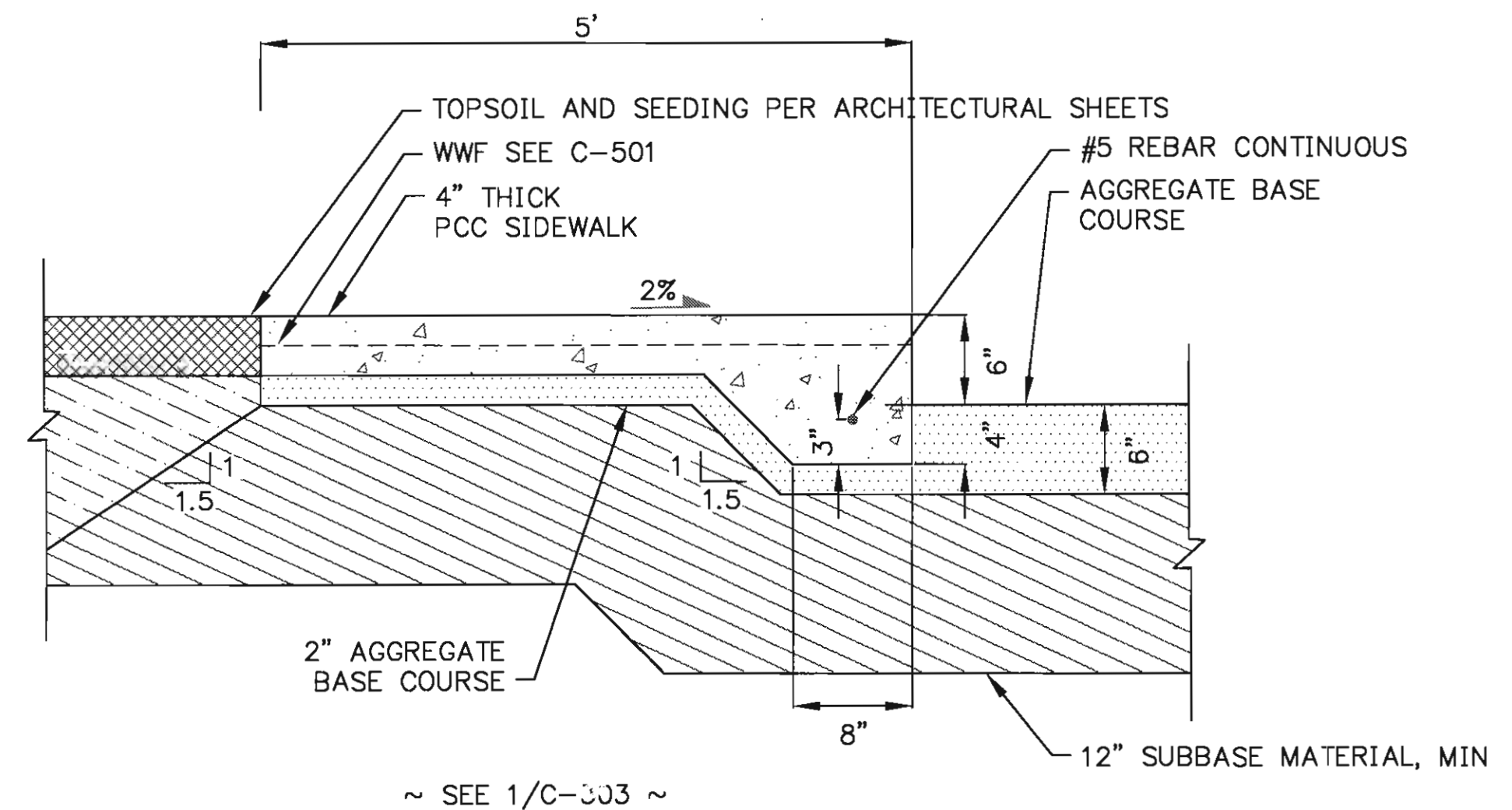


- NOTES:
1. CONCRETE SHALL BE CAST-IN-PLACE CONCRETE, 4,000 PSI 28-DAY COMPRESSIVE STRENGTH, WITH A 6 INCH MINIMUM THICKNESS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF MECHANICAL ANCHORAGE.
 3. REBAR REINFORCEMENT GRADE 60

2 CONCRETE PAD FOR PARKING STALLS
Scale: NTS



4 SIDEWALK AND ACCESSIBLE RAMP ISOMETRIC
Scale: NTS



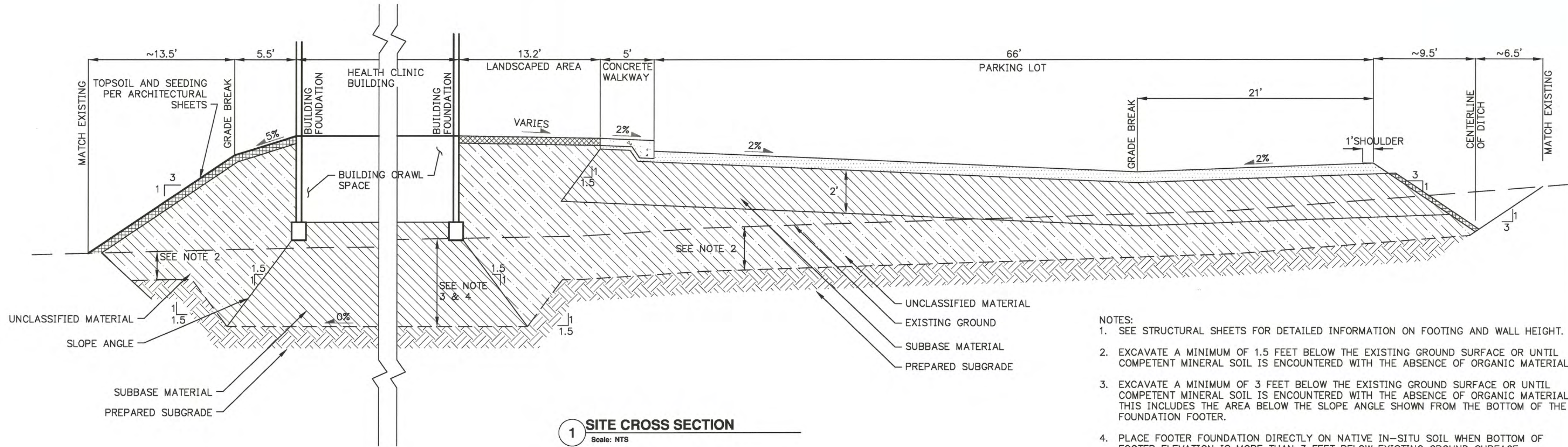
6 TYPICAL SIDEWALK SECTION
Scale: NTS



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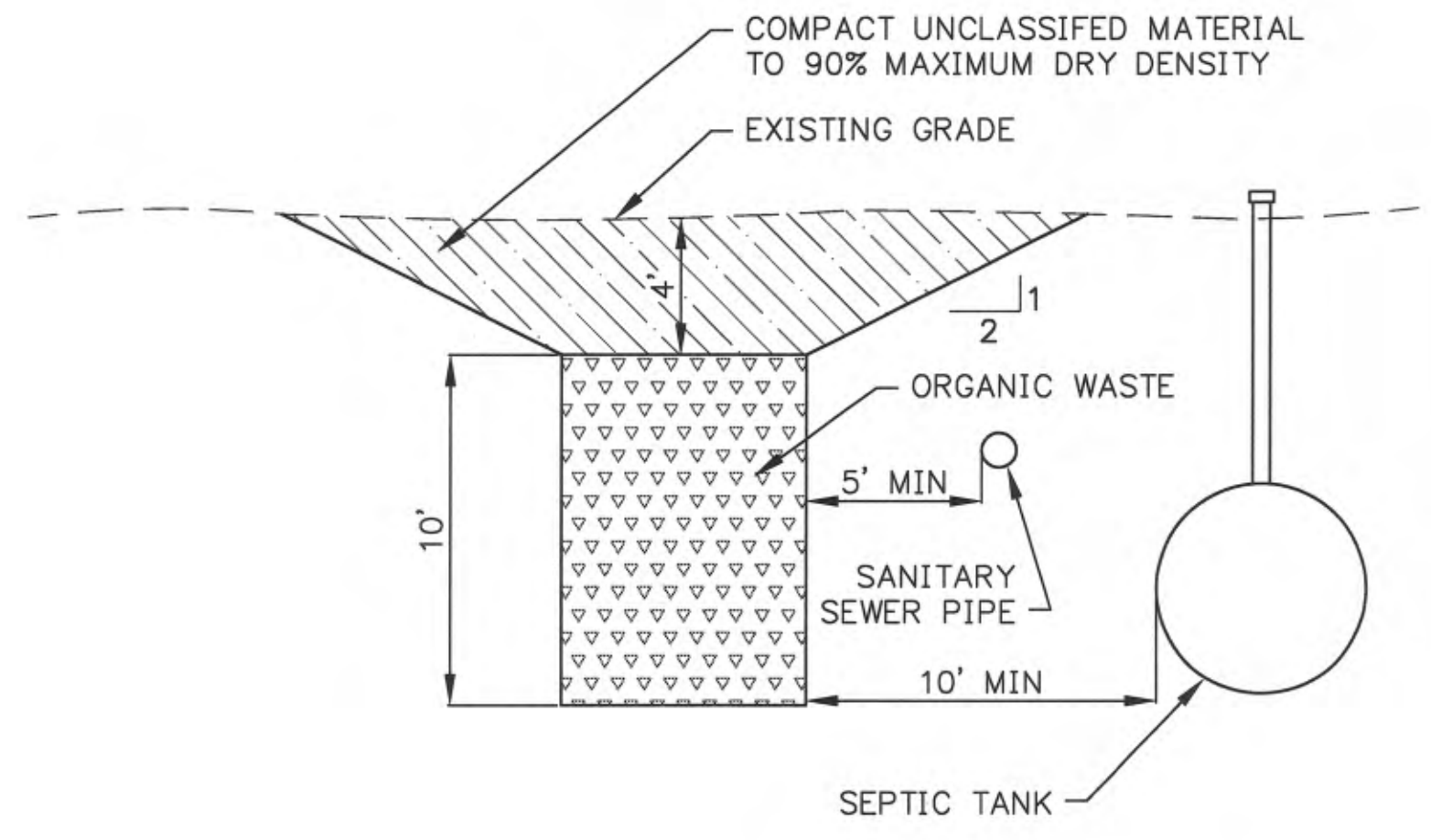


McGRATH SUB-REGIONAL
HEALTH CENTER
CIVIL SECTIONS
100% DESIGN DRAWINGS
DATE: APRIL 2009
DRAWN BY: TSN
CHECKED BY: MS
FILE: MCG-C-STSECT
PROJ MGR: TD
PROJ ENG: MS
TUS ENG: MS
LAYOUT: C-302



1 SITE CROSS SECTION
Scale: NTS

- NOTES:
1. SEE STRUCTURAL SHEETS FOR DETAILED INFORMATION ON FOOTING AND WALL HEIGHT.
 2. EXCAVATE A MINIMUM OF 1.5 FEET BELOW THE EXISTING GROUND SURFACE OR UNTIL COMPETENT MINERAL SOIL IS ENCOUNTERED WITH THE ABSENCE OF ORGANIC MATERIAL.
 3. EXCAVATE A MINIMUM OF 3 FEET BELOW THE EXISTING GROUND SURFACE OR UNTIL COMPETENT MINERAL SOIL IS ENCOUNTERED WITH THE ABSENCE OF ORGANIC MATERIAL. THIS INCLUDES THE AREA BELOW THE SLOPE ANGLE SHOWN FROM THE BOTTOM OF THE FOUNDATION FOOTER.
 4. PLACE FOOTER FOUNDATION DIRECTLY ON NATIVE IN-SITU SOIL WHEN BOTTOM OF FOOTER ELEVATION IS MORE THAN 3 FEET BELOW EXISTING GROUND SURFACE.



2 ONSITE SUBSURFACE DISPOSAL AREA
Scale: NTS

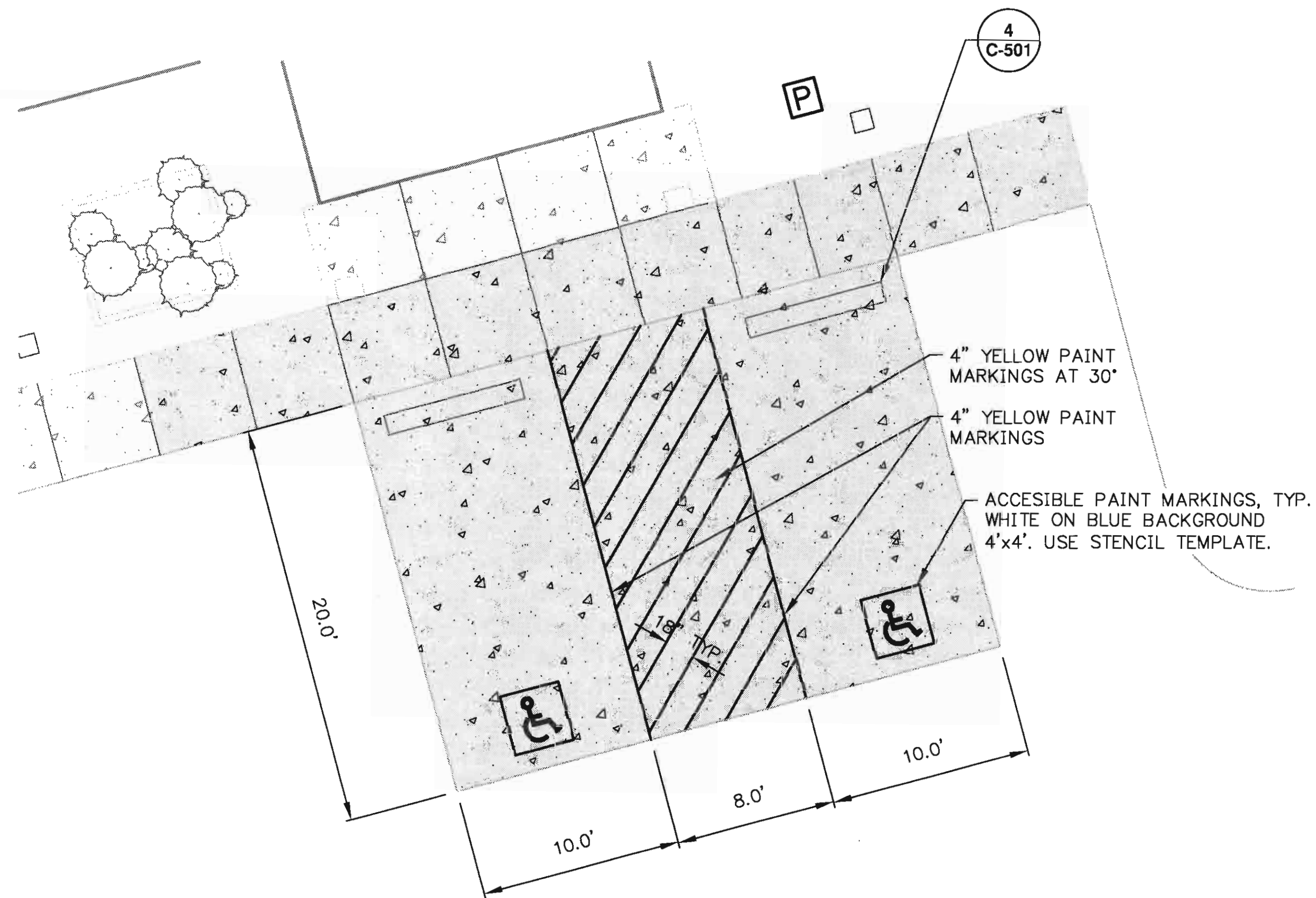
REVISIONS		DATE	INIT

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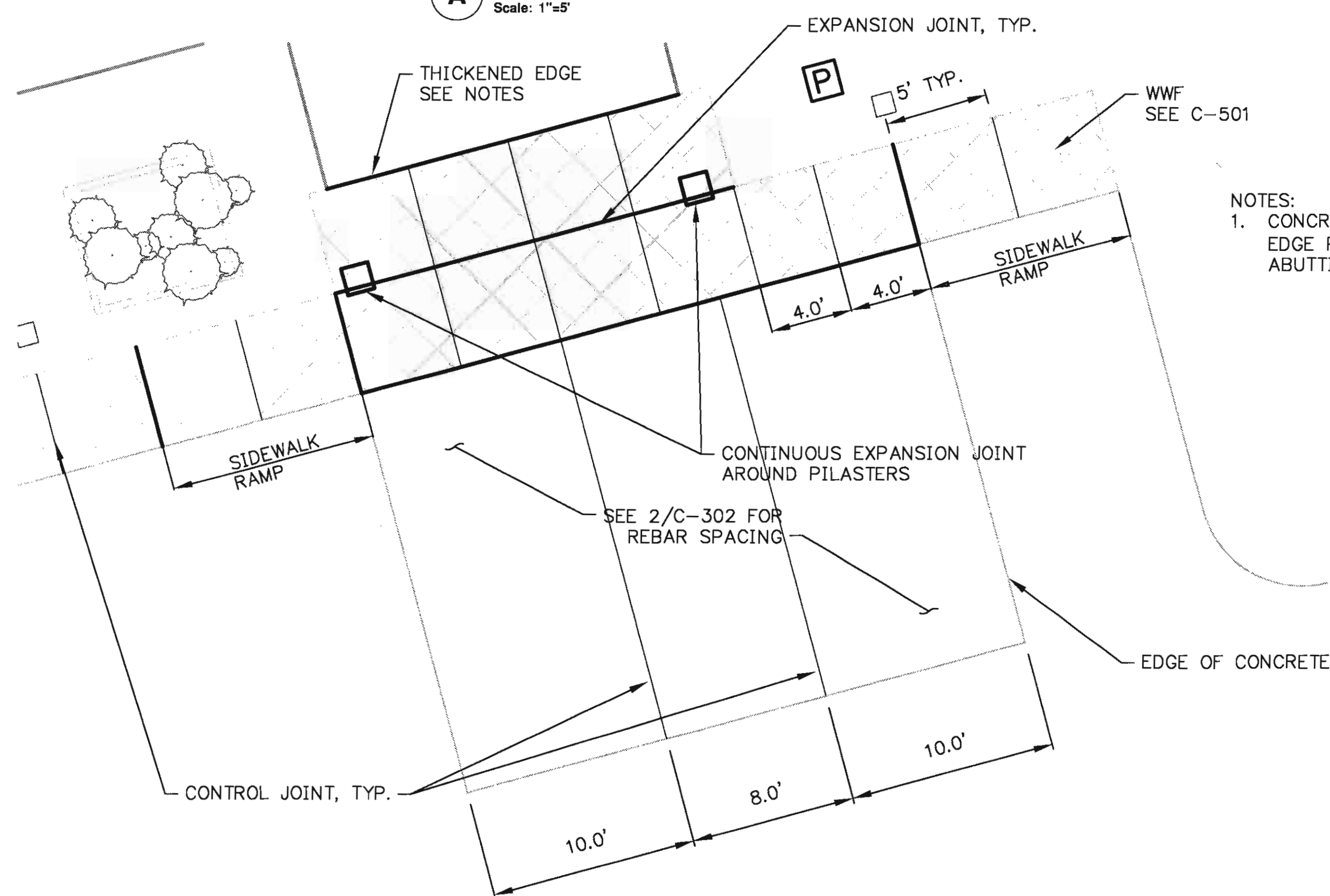
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SITE SECTION			
100% DESIGN DRAWINGS			
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CHECKED BY: MS	TUS ENG: MS	FILE: MCG-C-STSECT	

C-303

SHEET **9** OF **13**

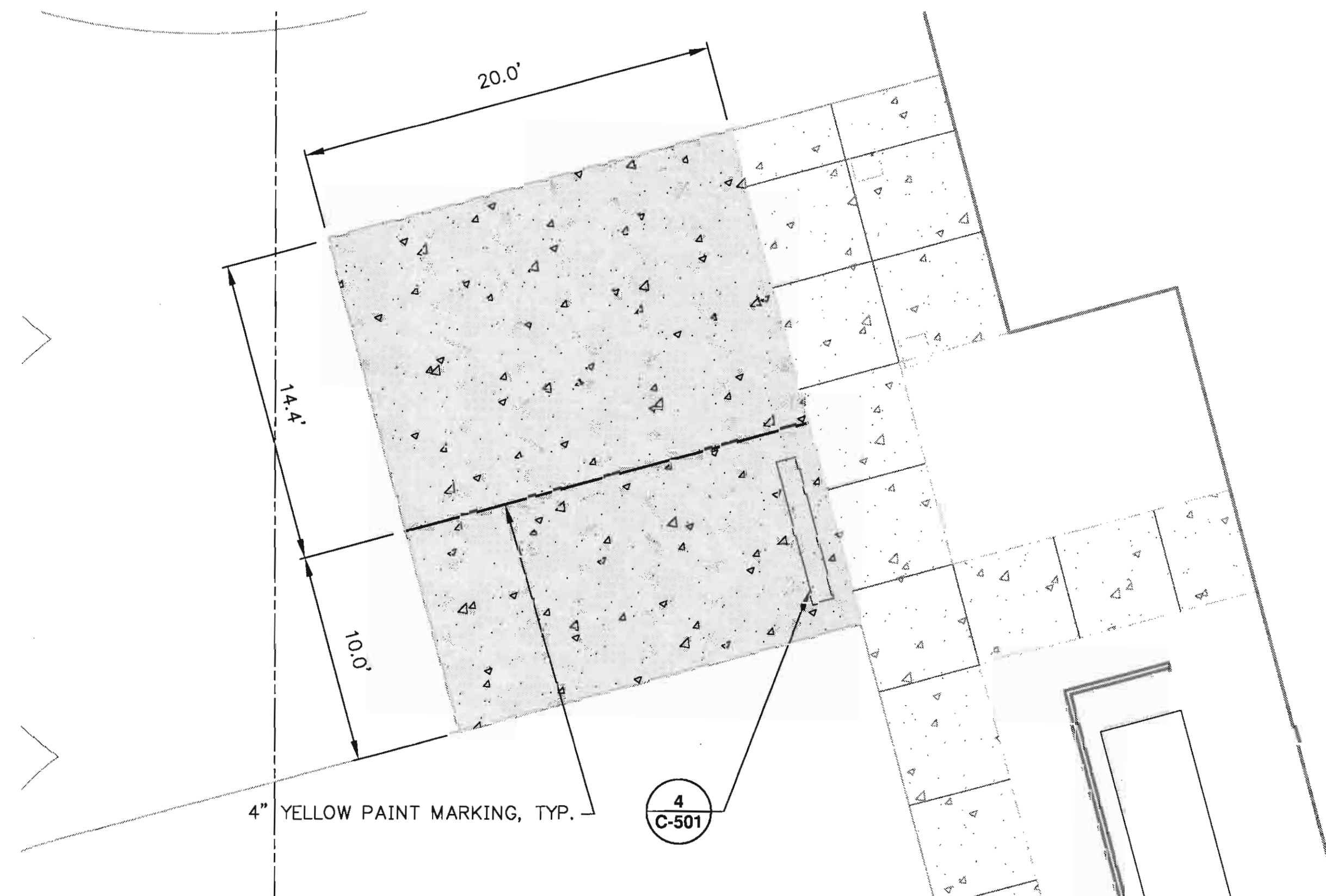


A PAINT MARKINGS DETAIL
Scale: 1"=5'

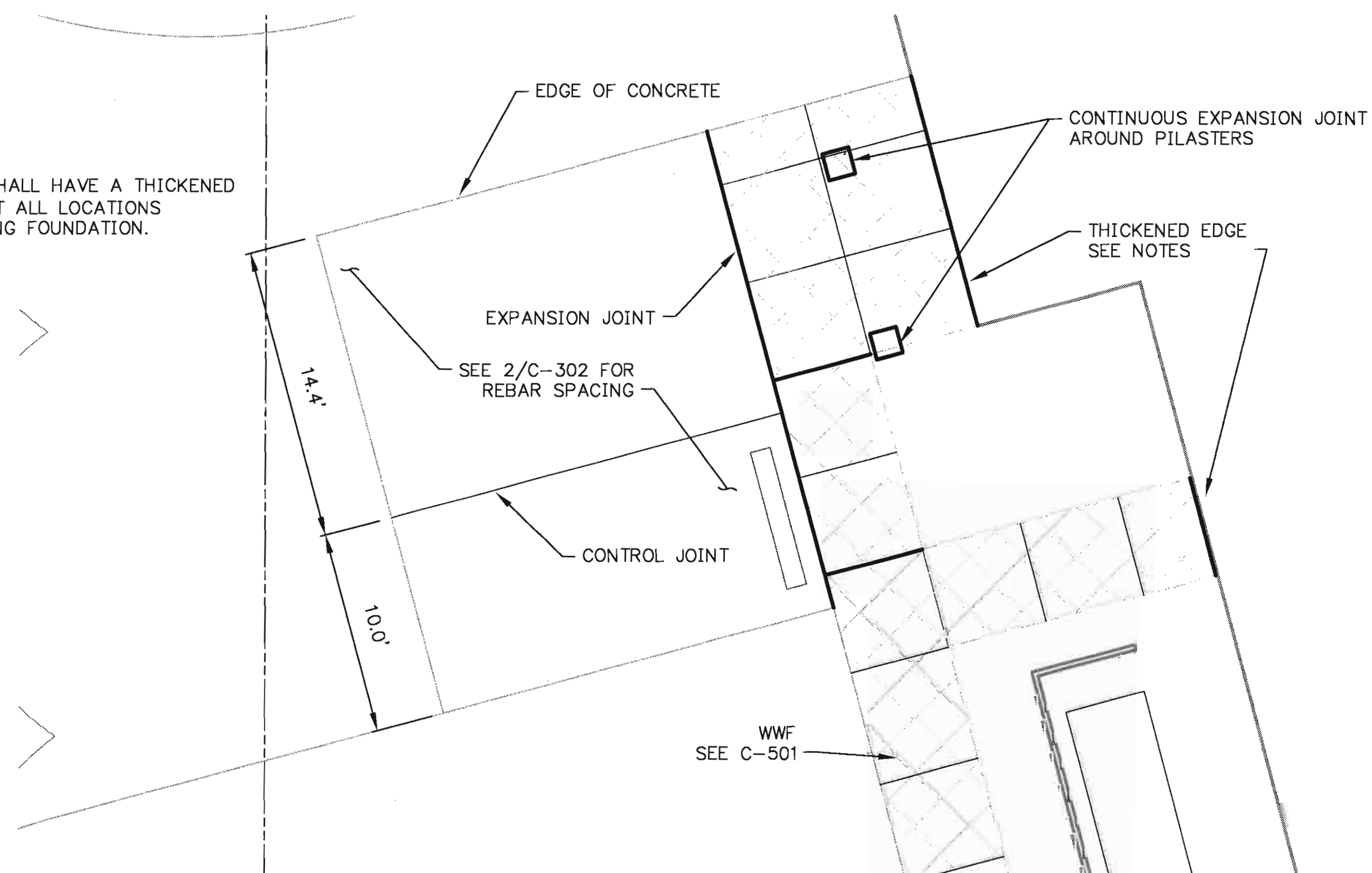


B CONCRETE JOINT DETAIL
Scale: 1"=5'

1 HANDICAP PARKING CONCRETE PAD DETAILS
Scale: SEE DETAIL



A PAINT MARKINGS DETAIL
Scale: 1"=5'



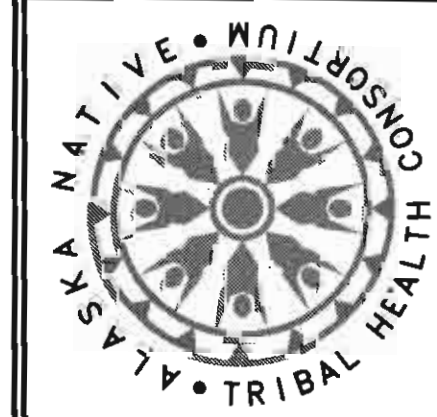
B CONCRETE JOINT DETAIL
Scale: 1"=5'

2 EMERGENCY VEHICLE PARKING CONCRETE PAD DETAILS
Scale: SEE DETAIL

DATE	REVISIONS	INIT



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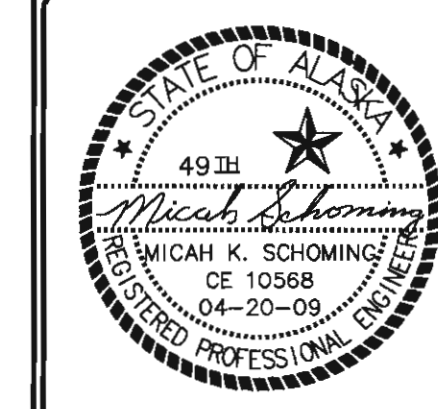
McGRATH SUB-REGIONAL HEALTH CENTER CONCRETE PARKING PAD DETAILS 100% DESIGN DRAWINGS	DATE: APRIL 2009 DRAWN BY: TSN CHECKED BY: MS FILE: MCG-C-STLSV	PROJ MGR: TD PROJ ENG: MS TUS ENG: LAYOUT: C-401
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C-501
SHEET **11** OF **13**



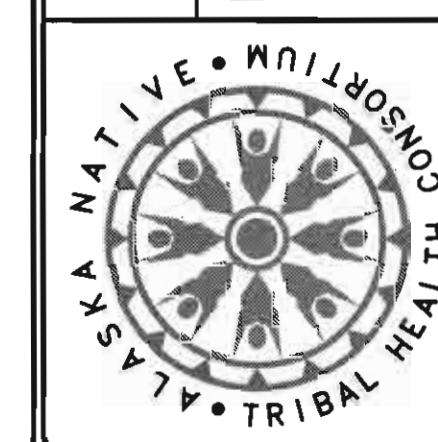
< 30" NO BRACING REQUIRED AND USE SQUARE TUBE



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MCGRATH SUB-REGIONAL HEALTH CENTER	
SIGN DETAILS	
100% DESIGN DRAWINGS	
DATE: APRIL 2009	PROJ MGR: TD
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CHECKED BY: MS	TUS ENG:
FILE NO: A-28674	NOVLOT FOR



C-503
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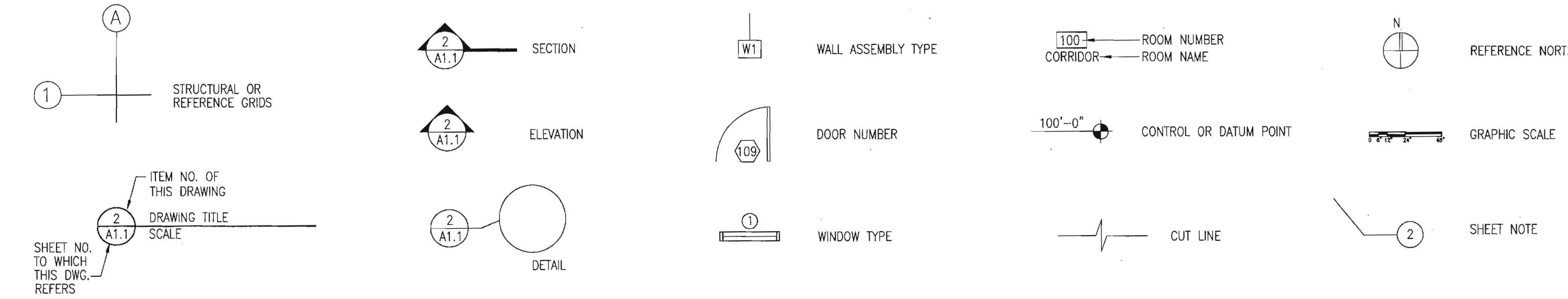
1 A0.2 ABBREVIATIONS

"	INCH	CSK.	COUNTERSUNK	FLR.	FLOOR	MECH.	MECHANICAL	S.S.	SANITARY SEWER
#	NUMBER	CSMT.	CASEMENT	FLSH.	FLASHING	MEMB.	MEMBRANE	SAN.	SANITARY
&	AND	CTD.	COATED	FLUOR.	FLUORESCENT	MFG.	MANUFACTURE	SCHED.	SCHEDULED
@	AT	CTR.	CENTER	FRPF.	FIREPROOFING	MH.	MANHOLE	SD.	SIDE
<	ANGLE	CU.	CUBIC	FRT.	FIRE RETARDANT TREATED	MIN.	MINIMUM OR MINUTE	SDG.	SIDING
ø	DIAMETER	CVR'G	COVERING	FT.	FOOT	MIR.	MIRROR	SECT.	SECTION
A.B.	ANCHOR BOLT	D.B.	DRAWER BANK	FTG.	FOOTING	MISC.	MISCELLANEOUS	SHEATH.	SHEATHING
A.C.T.	ACOUSTICAL CEILING TILE	D.F.	DRINKING FOUNTAIN	FURR.	FURRING	MTL.	METAL	SHR.	SHOWER
A.F.F.	ABOVE FINISH FLOOR	D.L.	DEAD LOAD	FUT.	FUTURE	MULL.	MULLION	SHWR.	SHEET
ACOUS.	ACOUSTICAL	DBL.	DOUBLE			N.	NORTH	SIM.	SIMILAR
ACT.	ACTUAL	DEMO.	DEMOLITION	G.A.	GYPSUM ASSOCIATION	N.A.	NOT APPLICABLE	SPEC.	SPECIFICATIONS.
ADD.	ADDITION OR ADDENDUM	D.L.	DEAD LOAD	G.B.	GRAB BAR	N.I.C.	NOT IN CONTRACT	SPL.	SPECIAL
ADDN.	ADDITIONAL	DEPT.	DEPARTMENT	G.I.	GALVANIZED IRON	N.T.S.	NOT TO SCALE	SQ.	SQUARE
ALT.	ALTERNATE	DIA.	DIAMETER	G.W.B.	GYPSUM WALL BOARD	NO.	NUMBER	SQ. FT.	SQUARE FEET
ALUM.	ALUMINUM	DIAG.	DIAGONAL	GAL.	GALLON	NOM.	NOMINAL	SST.	STAINLESS STEEL
ANDD.	ANODIZED	DIFF.	DIFFUSER OR DIFFERENCE	GA.	GAUGE			ST.S.	STORM SEWER
APPROX.	APPROXIMATE	DIM.	DIMENSION	GALV.	GALVANIZED			STA.	STATION
ARCH.	ARCHITECTURAL	DISP.	DISPENSER	GL.	GLASS			STD.	STANDARD
ASB.	ASBESTOS	DK.	DECK	GLB.	GLUE LAMINATED BEAM	O.C.	ON CENTER	STL.	STEEL
ASPH.	ASPHALT	DN.	DOWN	GOVT.	GOVERNMENT	O.H.	OVER HEAD	STOR.	STORAGE
AUTO. DR.	AUTOMATIC DOOR	DR.	DOOR	GR.	GRADE	OFF.	OFFICE	STRUCT.	STRUCTURE
AVG.	AVERAGE	DS.	DOWN SPOUT	GSP.	GALVANIZED STEEL PIPE	OHD.	OVER HEAD DOOR	SUR.	SURFACE
		DTL.	DETAIL	GYM.	GYMNASIUM	OPNG.	OPENING	SUSP.	SUSPENDED
		DWG.	DRAWING	GWB.	GYPSUM WALL BOARD	OPP.	OPPOSITE	SV.	SHEET VINYL
				H.B.	HOSE BIB	ORIG.	ORIGINAL	SYM.	SYMMETRICAL
B.C.	BASE CABINET	E.	EAST	H.C.	HANDICAPPED	P.LAM.	PLASTIC LAMINATE	T.&G.	TONGUE AND GROOVE
B.M.	BENCH MARK	E.I.F.S.	EXT INSULATION & FINISH SYS	H.C.	HOLLOW CORE	P.T.D.	PAPER TOWER DISPENSER	T.B.	TOWER BAR
B.O.	BOTTOM OF	E.S.	EACH SIDE	H.M.	HOLLOW METAL	PART.	PARTITION	T.BD.	TACK BOARD
B.S.	BOTH SIDES	E.W.	EACH WAY	H.M.F.	HOLLOW METAL FRAME	PL.	PLATE	T.I.	TENANT IMPROVEMENT
B.T.U.	BRITISH THERMAL UNIT	EA.	EACH	H.P.	HIGH POINT	PLAST.	PLASTER	T.O.	TOP OF
B.U.R.	BUILT-UP ROOFING	ELECT.	ELECTRICAL	H.W.	HOT WATER	PLYWD.	PLYWOOD	T.O.C.	TOP OF CURB
BK.	BACK	ELEV.	ELEVATION	HD.	HAND	PR.	PAIR	T.O.S.	TOP OF STEEL
BLDG.	BUILDING	ENCL.	ENCLOSURE	HDWD.	HARDWOOD	PRE. ENG.	PREVIOUSLY ENGINEERED	TEL.	TELEPHONE
BLK.	BLOCK	EQ.	EQUAL	HDWR.	HARDWARE	PREFAB.	PREFABRICATED	TEMP.	TEMPORARY
BLKG.	BLOCKING	EQUIP.	EQUIPMENT	HORIZ.	HORIZONTAL	PROJ.	PROJECT	TERR.	TERRAZZO
BM.	BEAM	EXIST.	EXISTING	HR.	HOUR	PSF.	POUNDS PER SQUARE FOOT	THK.	THICK
BOTT.	BOTTOM	EXP.	EXPANSION	HT.	HEIGHT	PT.	POINT	THRU.	THROUGH
		EXP. AGG.	EXPOSED AGGREGATE	HWY.	HIGHWAY			TRANSV.	TRANSVERSE
C TO C	CENTER TO CENTER	EXP. JT.	EXPANSION JOINT	I.D.	INSIDE DIAMETER	Q.T.	QUARRY TILE	TS.	TUBE STEEL
C.B.	CATCH BASIN	EXT.	EXTERIOR	IN.	INCH			TV.	TELEVISION
C.I.	CAST IRON	EXTR.	EXTRUDED	INCL.	INCLUDE	R.	RISER	TYP.	TYPICAL
C.I.P.	CAST IRON PIPE			INSUL.	INSULATE	RCP	REFLECTED CEILING PLAN	U.L.	UNDERWRITERS LABORATORIES
C.J.	CONTROL JOINT	F TO F	FACE TO FACE	INT.	INTERIOR	R.D.	ROOF DRAIN	UNFIN.	UNLESS OTHERWISE NOTED
C.M.P.	CORRUGATED METAL PIPE	F.B.	FLAT BAR	JAN.	JANITOR	R.H.	RIGHT HAND		
C.M.U.	CONCRETE MASONRY UNITS	F.D.	FLOOR DRAIN	JT.	JOINT	R.L.	RAIL LEADER		
C.R.	COLD ROLLED	F.E.	FIRE EXTINGUISHER	KIT.	KITCHEN	R.O.	ROUGH OPENING	V.B.	VAPOR BARRIER
C.R.C.	COLD ROLLED CHANNEL	F.E.C.	FIRE EXTINGUISHER CABINET			R.O.W.	RIGHT OF WAY	V.C.T.	VINYL COMPOSITION TILE
C.T.	CERAMIC TILE	F.F.	FACTORY FINISH			RAD.	RADIUS	V.I.F.	VERIFY IN FIELD
CAB.	CABINET	F.F.E.	FINISHED FLOOR ELEVATION			RBR.	RUBBER	V.T.	VINYL TILE
CEM.	CEMENT	F.H.C.	FIRE HOSE CABINET			REF.	REFERENCE	VAC.	VACUUM
CER.	CERAMIC	F.L.	FLOOR LINE			REFR.	REFRIGERATOR	VERT.	VERTICAL
CH.B.	CHALK BOARD	F.O.	FACE OF			REQ.	REQUIRED	VEST.	VESTIBULE
CIRC.	CIRCULAR	F.O.B.	FACE OF BLOCK			RESIL.	RESILIENT	VFY.	VERIFY
CL.	CENTER LINE	F.O.BLDG.	FACE OF BUILDING			REV.	REVERSED	W.	WEST
CLG.	CEILING	F.O.C.	FACE OF CONCRETE			RGH.	ROUGH	W.C.	WATER CLOSET
CLKG.	CAULKING	F.O.F.	FACE OF FINISH			RM.	ROOM	W.P.	WATER PROOF
CLOS.	CLOSET	F.O.S.	FACE OF STUDS			RT.	RIGHT	W.W.F.	WELDED WIRE FABRIC
CLR.	CLEAR	F.O.W.	FACE OF WALL			S.	SOUTH	W.W.M.	WELDED WIRE MESH
COL.	COLUMN	F.P.	FIRE PROOF			S.A.T.	SUSPENDED ACOUSTICAL TILE	W/	WITH
COMM.	COMMUNICATION	F.S.	FULL SIZE			S.B.	SINK BASE	W/O	WITHOUT
COMP.	COMPOSITION	F.T.	FIRE TREATED			S.C.	SOLID CORE	WD.	WOOD
CONC.	CONCRETE	FAB.	FABRICATED			S.C.W.	SOLID CORE WOOD	WT.	WEIGHT
CONN.	CONNECTION	FIN.	FINISH			S.D.	SMOKE DETECTOR	WTH.	WIDTH
CONN.	CONNECTION	FIN. FL.	FINISH FLOOR						
CONST.	CONSTRUCTION								
CONT.	CONTINUOUS								
CORR.	CORRIDOR								
CPT.	CARPET								

3 A0.2 GENERAL NOTES

- SUMMARY OF WORK:
- THE SCOPE OF WORK SHOWN IN THE CONTRACT DOCUMENTS ADDRESSES THE WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION OF A HEALTH CLINIC FOR THE VILLAGE OF MCGRATH, ALASKA.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, NFPA, JCAHO, INTERNATIONAL MECHANICAL CODE, NATIONAL ELECTRICAL CODE, UNIFORM PLUMBING CODE AND ALL LOCAL AND ALASKA STATE CODE REGULATIONS AND AMENDMENTS.
 - THESE DRAWINGS ARE SUPPLIED TO THE GENERAL CONTRACTOR AND OTHERS FOR THEIR USE ON THIS SPECIFIC PROJECT. ALL COPIES OF THESE DRAWINGS SHALL REMAIN THE PROPERTY OF ANTHC AND SHALL NOT BE RE-USED OR REPRODUCED WITHOUT PERMISSION FROM ANTHC.
 - 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.
 - CONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO ALL APPLICABLE LOCAL CODES AND TRADE STANDARDS.
 - CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. CONTRACTOR ASSUMES ALL LIABILITY FOR DAMAGES INCURRED DURING CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO COMPLETE ALL WORK AS SHOWN OR AS IMPLIED ON THESE DRAWINGS.
 - CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL FACILITIES FOR LIGHT, HEAT AND POWER WITHIN THE PREMISES AND IN THE CONSTRUCTION AREA DURING THE ENTIRE CONSTRUCTION PERIOD. PROVIDE NECESSARY MATERIALS AND LABOR FOR POWER CONNECTIONS FOR MACHINES, PORTABLE, ETC. AS USED BY OTHER TRADES, REGARDLESS OF SIZE.
 - 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 BEFORE COMMENCING WITH THAT PORTION OF THE WORK.
 - ALL COMPONENTS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURERS PRINTED RECOMMENDATIONS
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND DEBRIS RESULTING FROM CONSTRUCTION.
 - ALL COLOR SELECTION SHALL BE PER THE COLOR SCHEDULE OR IF NOT ON THE COLOR SCHEDULE THEN SUBMIT TO THE CONTRACTING OFFICER FOR APPROVAL.
 - ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF PANEL SHEATHING, GRID LINES, FACE OF ROUGH OPENING, UNLESS INDICATED OTHERWISE.
 - CAULK ALL JOINTS, PROVIDE BACKER ROD AS NEEDED, AND PROVIDE FLASHING AND COUNTER FLASHING AS NEEDED TO PROVIDE COMPLETE WEATHER PROOF INSTALLATION.

2 A0.2 DRAWING SYMBOLS



REVISIONS

NO.	DATE	DESCRIPTION

DATE

4.20

2009

STATE OF ALASKA

PROFESSIONAL ARCHITECT

WILLIAM A. KLUGE

A6301

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DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING

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ANCHORAGE, ALASKA 99508-3440

(907) 729-3600

McGRATH SUB-REGIONAL HEALTH CENTER

ABBREVIATIONS, GENERAL NOTES & DRAWING SYMBOLS

FILE NAME:

PROJECT NO: 0198

DRAWN BY: CFP

DATE: 4/20/2009

SCALE: AS NOTED

SHEET A-001

1 OF 13A

DENALI COMMISSION

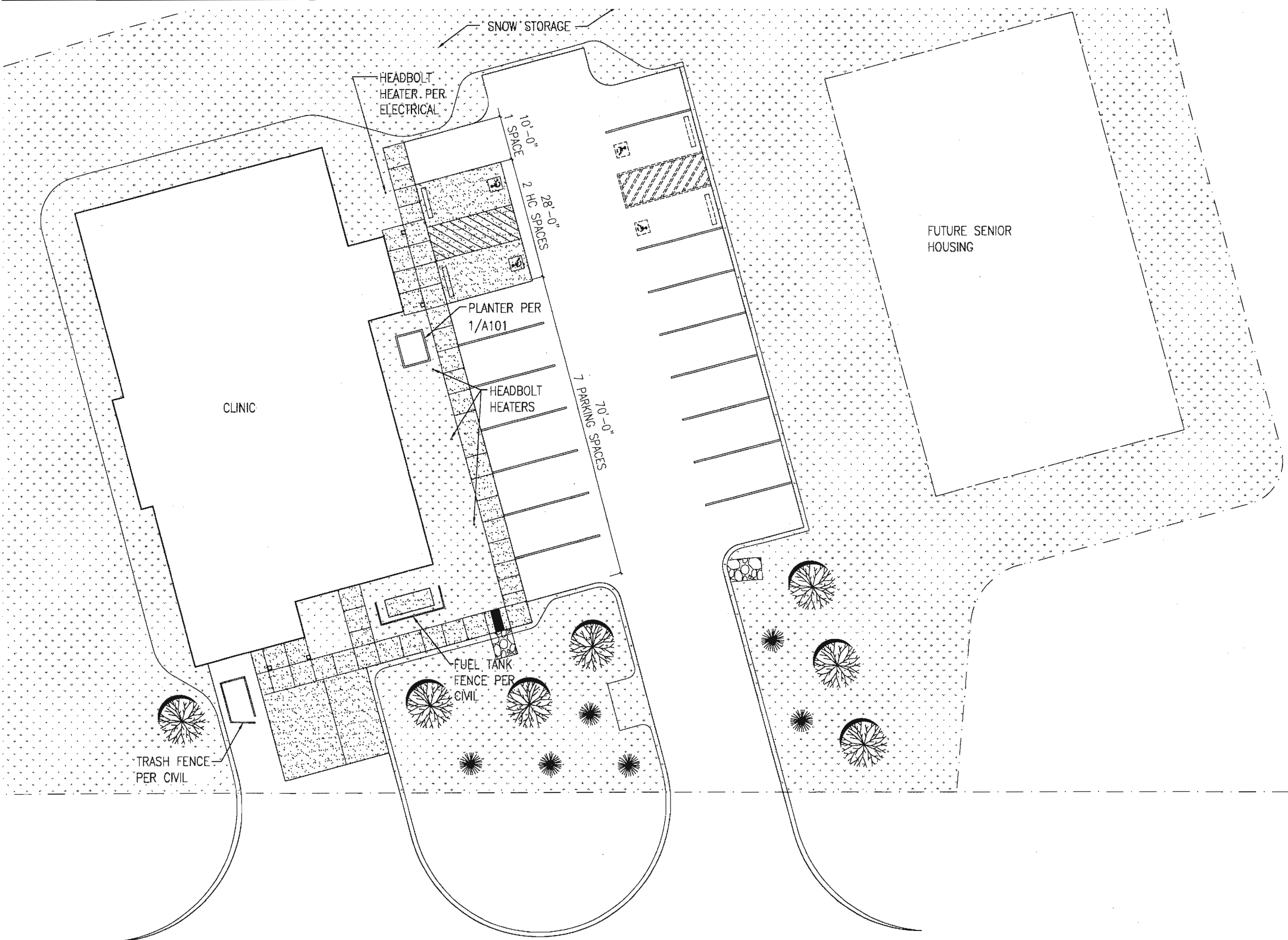
ALASKA

LEGEND

SYMBOL	DETAIL	DESCRIPTION
	4 A101	(7)10'-12' NATIVE BIRCH
	3 A101	(6)6' NATIVE SPRUCE
	4" MIN TOPSOIL W/ KENTUCKY BLUE GRASS SEED @ ALL DISTURBED AREAS. REFER TO CIVIL DRAWINGS FOR THE EXTEND OF CLEARING LIMITS.	

PARKING

(22) TOTAL PARKING SPACES
(2) ADA ACCESSIBLE SPACES



2

SITE PLAN

GRAPHIC SCALE:

10'

20'

30'

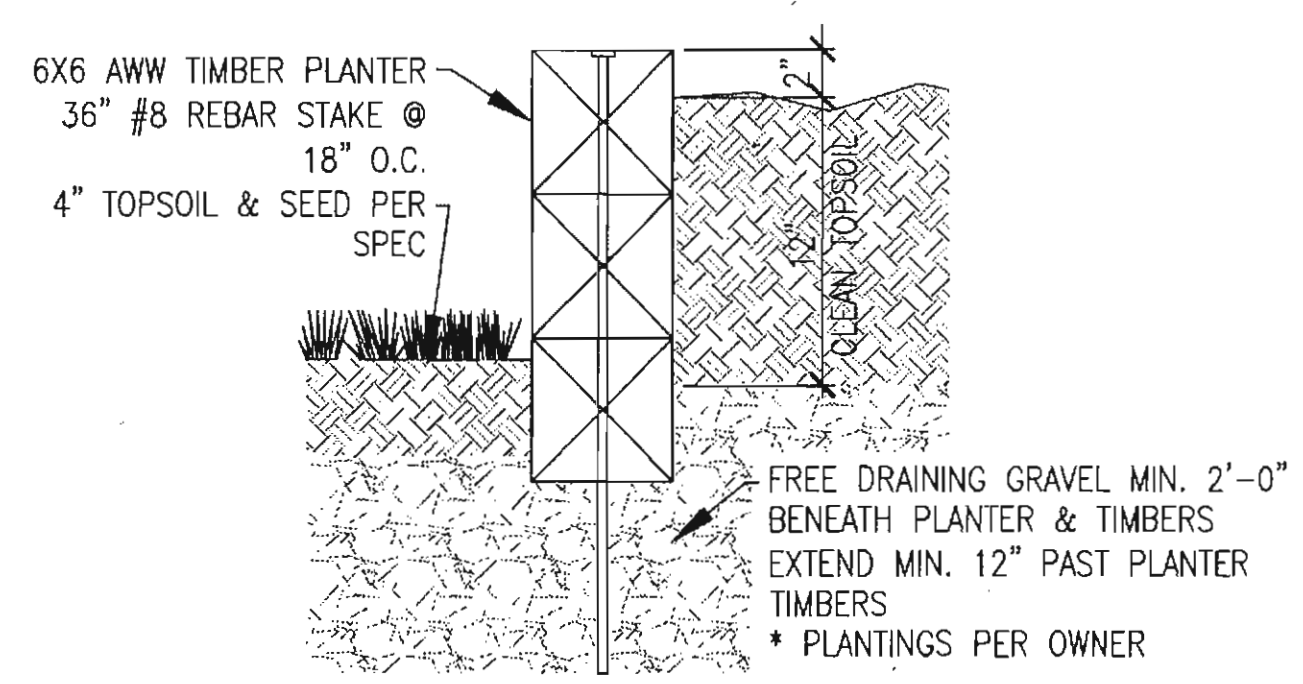
TOTAL BUILDING AREA: 6,113 S.F.

REF. N

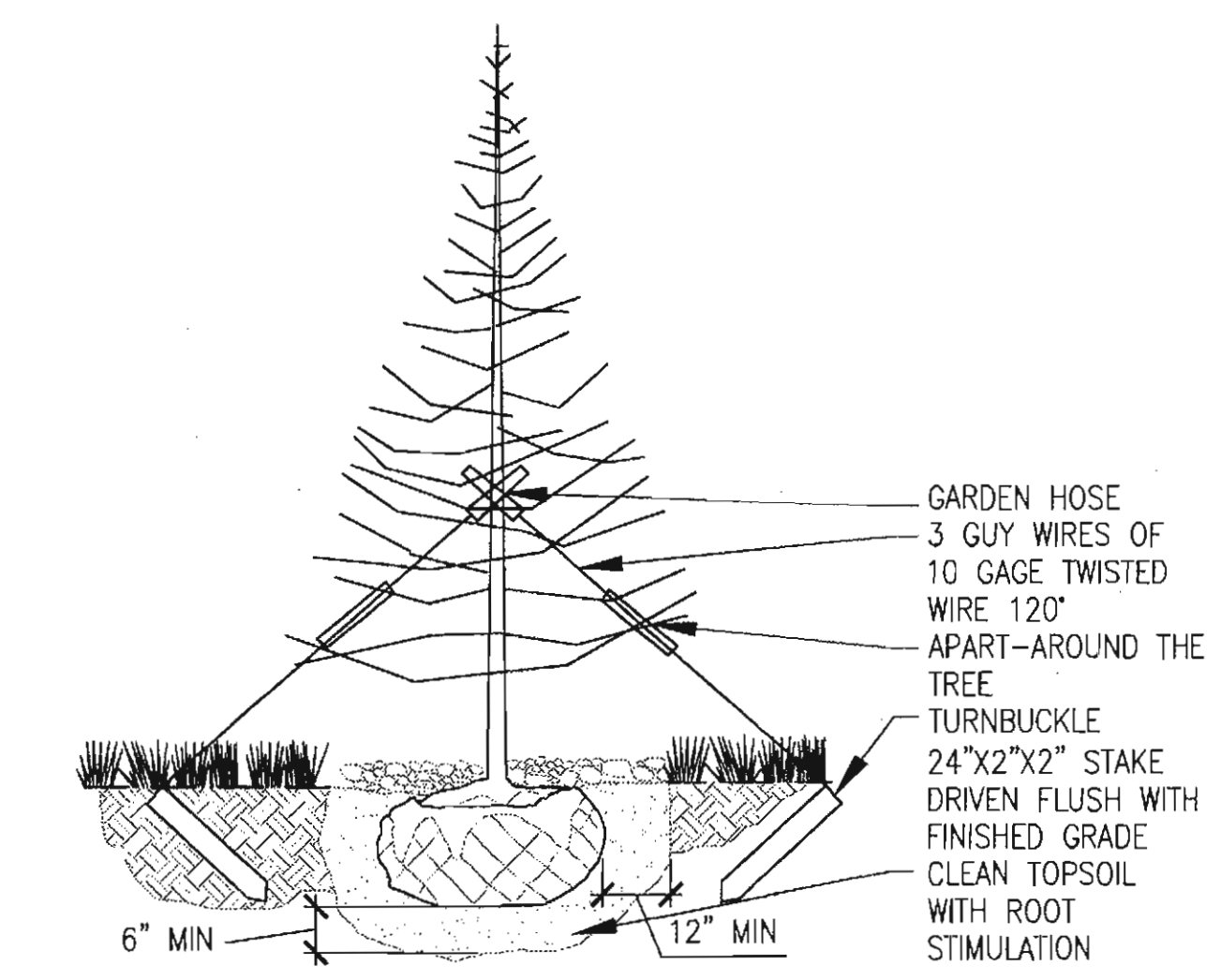
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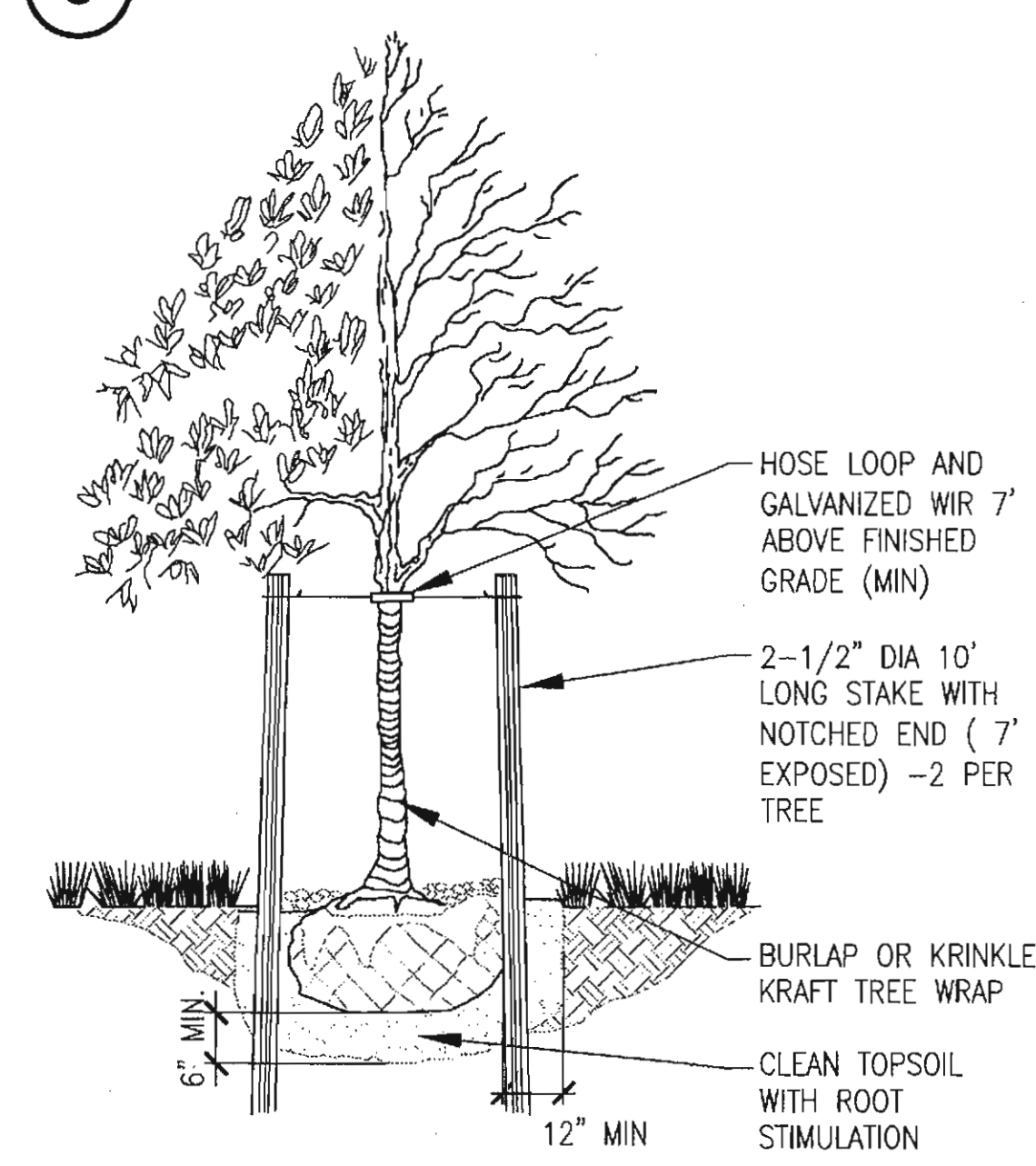
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1 PLANTER DETAIL



3 EVERGREEN PLANTING DETAIL



4 DECIDUOUS PLANTING DETAIL

INIT.

REVISIONS

DATE

STATE OF ALASKA

49TH

WILLIAM A. KLUGE

A6301

REGISTERED PROFESSIONAL ARCHITECT

4.20

2009

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING

1901 SOUTH BRAGAW STREET, SUITE 200

ANCHORAGE, ALASKA 99508-3440

(907) 729-3600

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

McGRATH SUB-REGIONAL HEALTH CENTER

SITE PLAN

FILE NAME:

PROJECT NO:

PROJ ARCH:

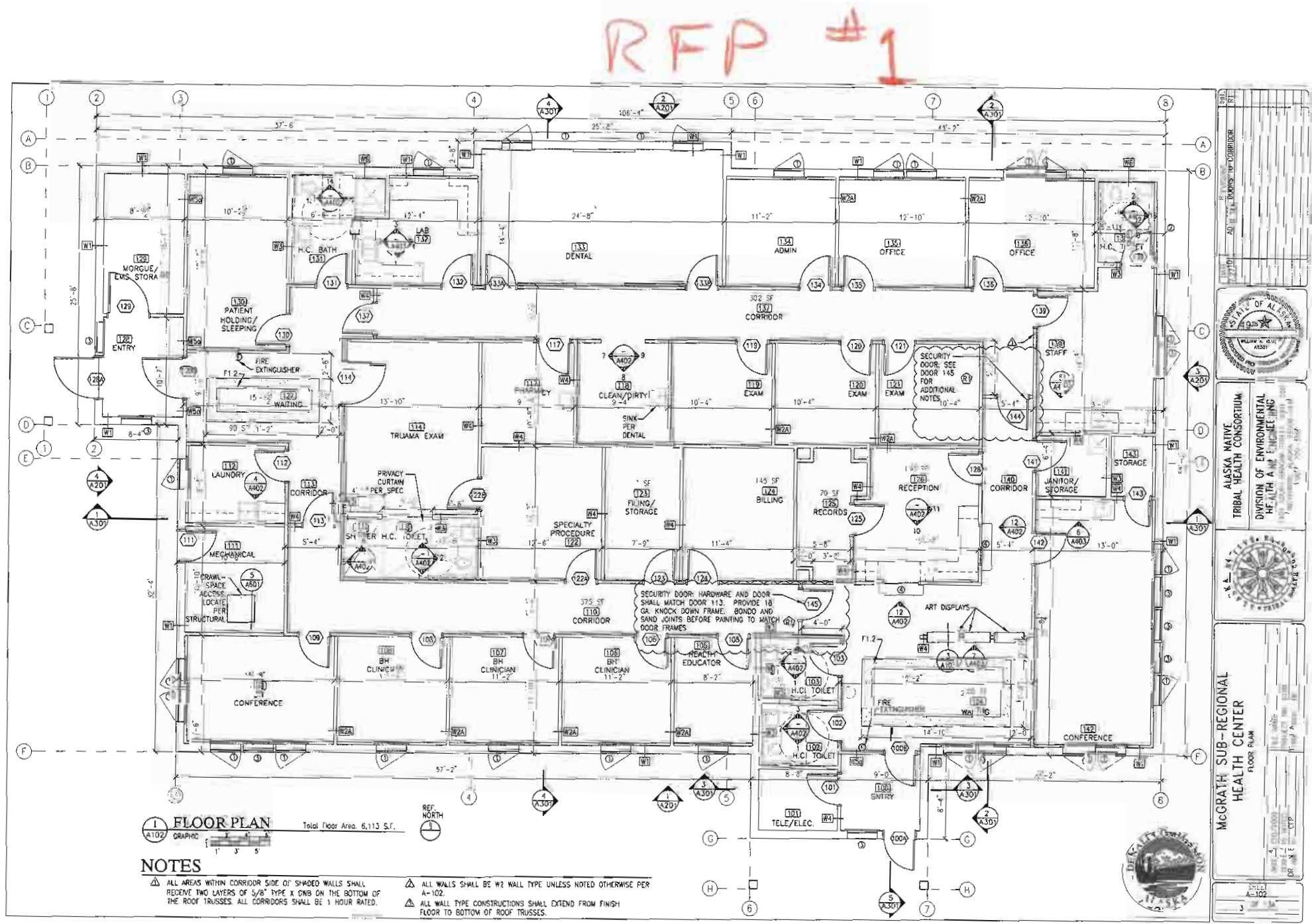
DATE: 4/20/2009

SCALE: AS NOTED

DRAWN BY: CFP

SHEET A-101

2 OF 13A



ARCHITECTURAL SECTION

AMENDMENT #4

1. Drawing A-102 of the construction documents **ADD** two fire extinguishers with cabinets. One fire extinguisher and cabinet shall be mounted on the south wall of Waiting Room 104 two feet from the west wall. The second fire extinguisher and cabinet shall be mounted on the north wall of Waiting Room 127 five feet from the west wall. Fire extinguishers and Cabinets shall be provided and installed per Project Manual section 10520.



MEMO 2

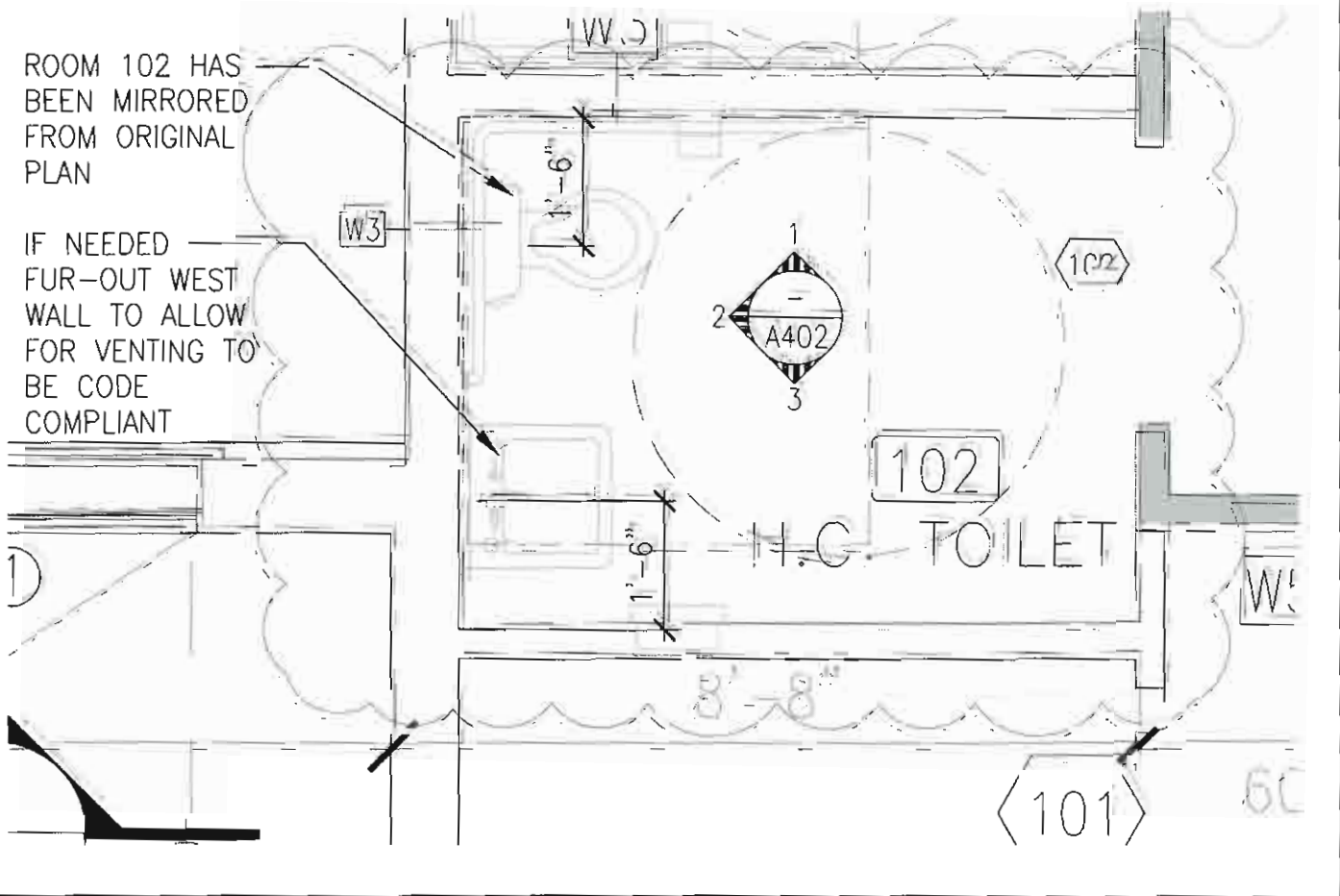
TO Ted Dickerson
Alaska Native Tribal Health Consortium
1901 Bragaw St. Suite 200
Anchorage, AK 99508

DATE	August 12, 2010	JOB NO.	1080
PROJECT	McGrath Sub-Regional Health Center		
LOCATION	McGrath, ALASKA		
CONTRACTOR	Collins Construction, Inc.	OWNER	ANTHC

PLEASE NOTE THE FOLLOWING:

H.C. Toilet Room 102:

The room layout of room 102 shall be mirrored to resolve the toilet drain conflict as shown in the sketch below.



Copies to: File _____ Signed Chris Tank
PAGE 1 OF 1

[illegible]



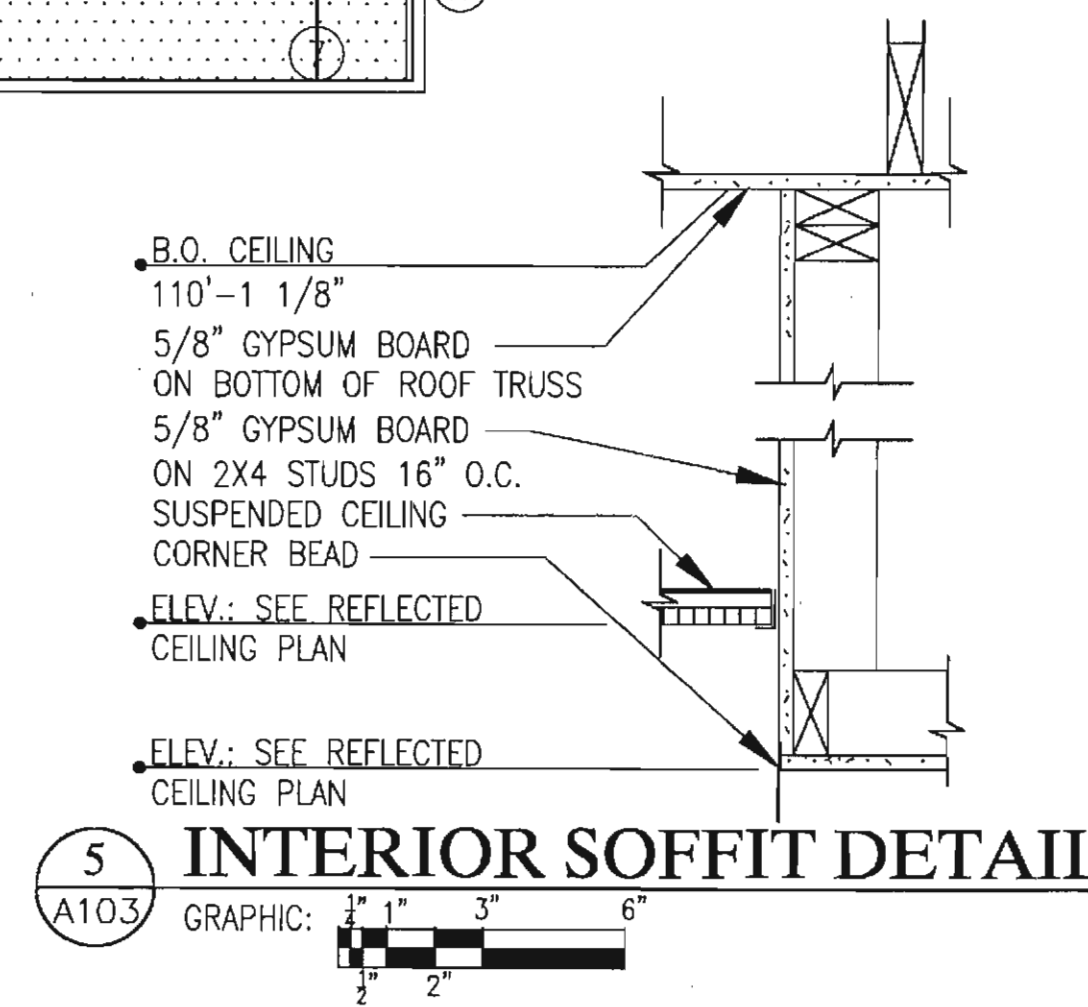
1 REFLECTED CEILING PLAN
A103 GRAPHIC: 0 1' 2' 4' 8'

RCP LEGEND

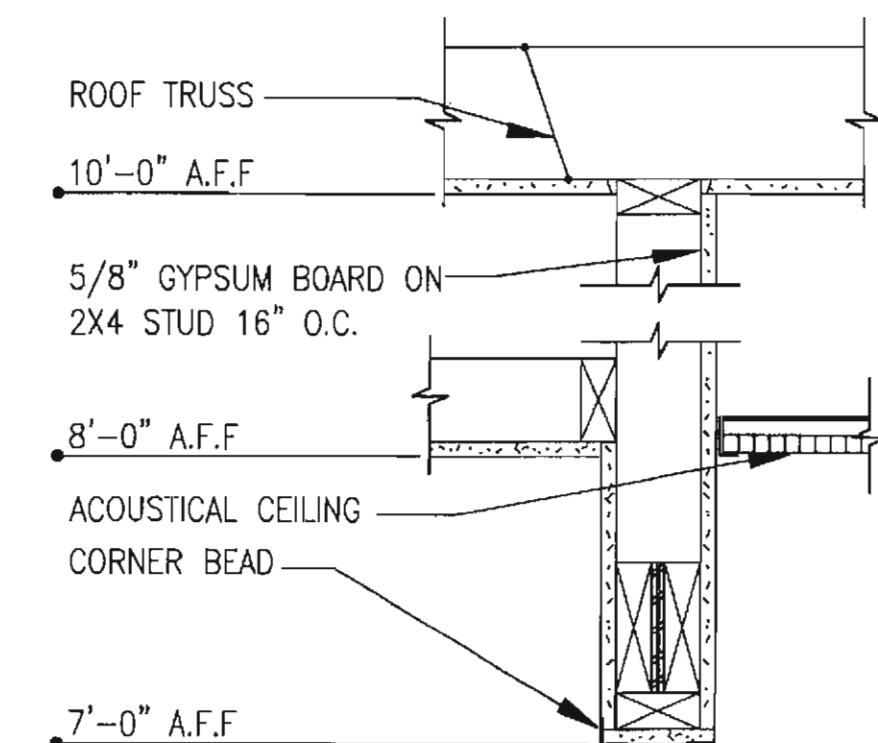
- 2x2 SUSP. ACOUSTIC TILE CEILING AT 8'-0" AFF.
- 5/8" TYPE X GWB CEILING ON AT 8'-0", UNLESS OTHERWISE NOTED
- EXHAUST FAN OR RETURN
- MECHANICAL DIFFUSER
- 2x4 RECESSED FLUORESCENT FIXTURE
- 1x4 SURFACE MTD FLUORESCENT FIXTURE
- SURFACE MTD FIXTURE
- WALL MTD FLUORESCENT FIXTURE
- EXIT FIXTURE
- EMERGENCY FIXTURE
- 22"x30" ATTIC ACCESS SEE DETAIL 2/A601

CEILING NOTES

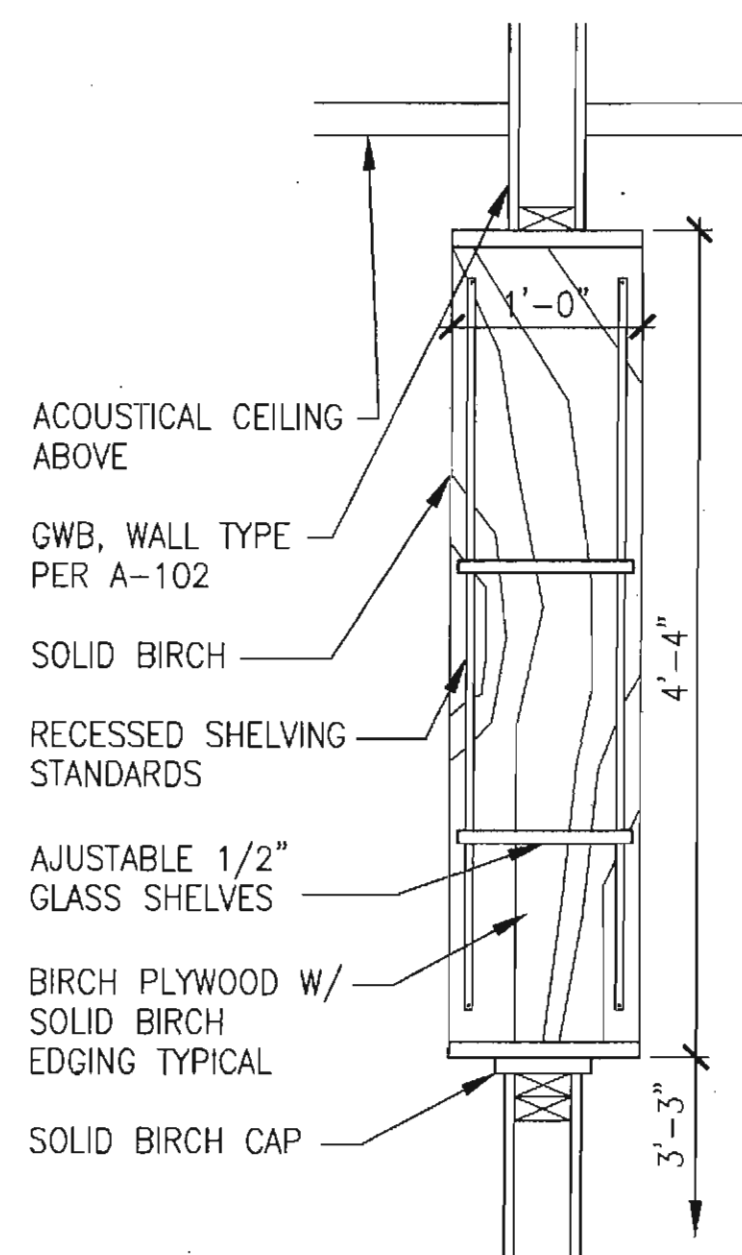
1. REFERENCE ELECTRICAL DRAWINGS FOR ALL SIZES AND TYPES OF LIGHTING FIXTURES, AND COORDINATE LOCATION.
2. REFERENCE MECHANICAL DRAWINGS FOR ALL SIZES AND TYPES OF FIXTURES, AND COORDINATE LOCATION.



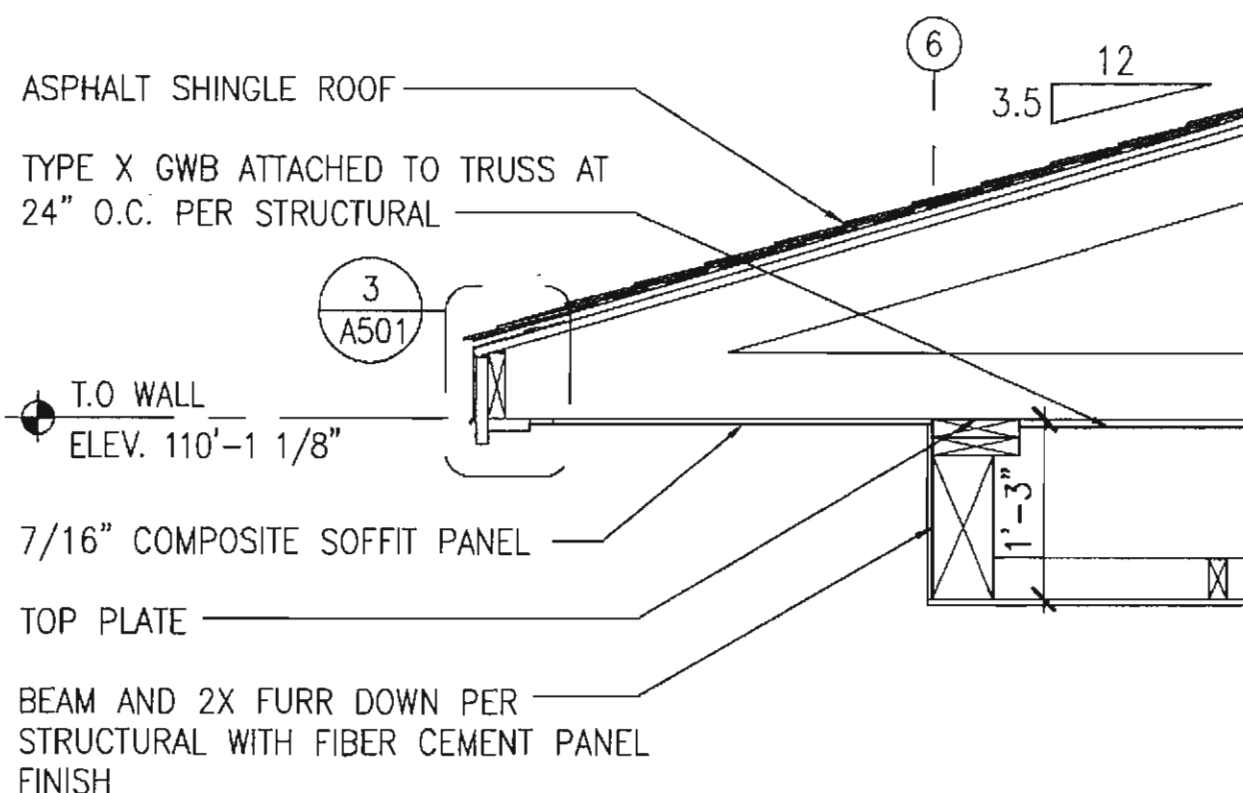
5 INTERIOR SOFFIT DETAIL
A103 GRAPHIC: 1' 1" 3" 6" 2' 2"



2 BULK HEAD DETAIL
A103 GRAPHIC: 1' 1" 3" 6" 2' 2"



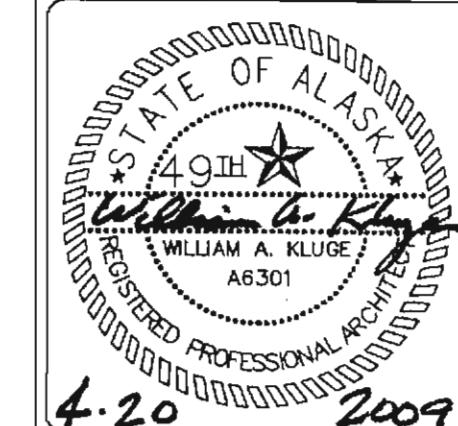
3 ART DISPLAY DETAIL
A103 GRAPHIC: 1' 6" 1'-6" 3' 1'



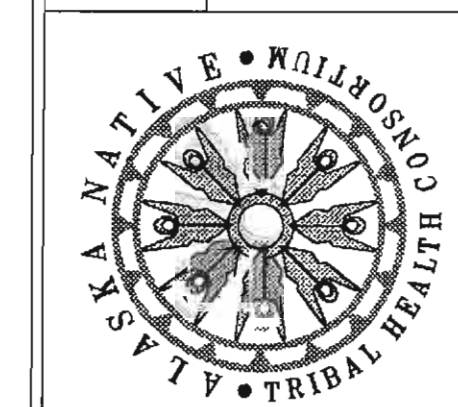
4 SOFFIT DETAIL
A103 GRAPHIC: 1' 4" 12" 24" 2' 6"



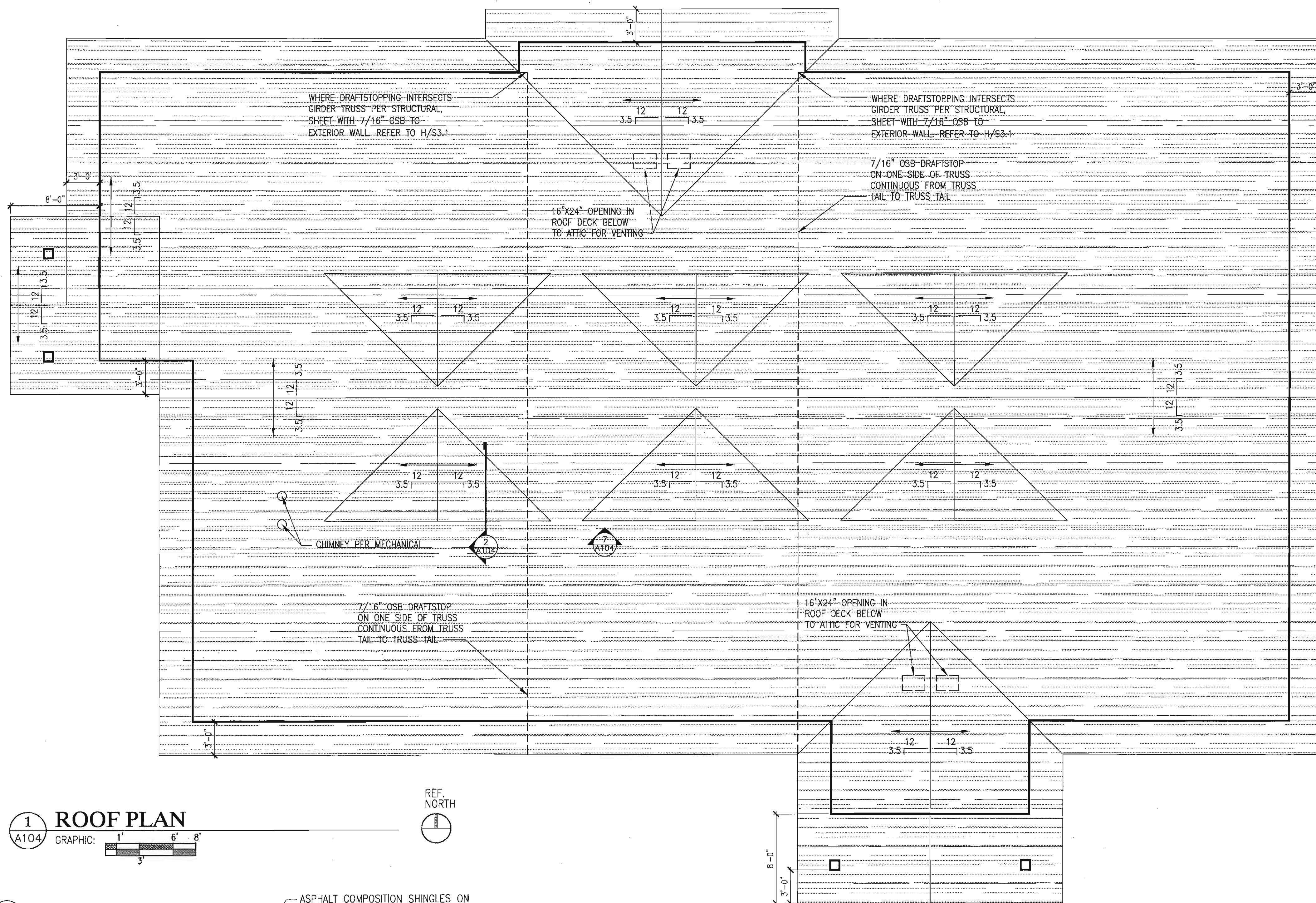
INIT.	
REVISIONS	
DATE	



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(907) 723-3600

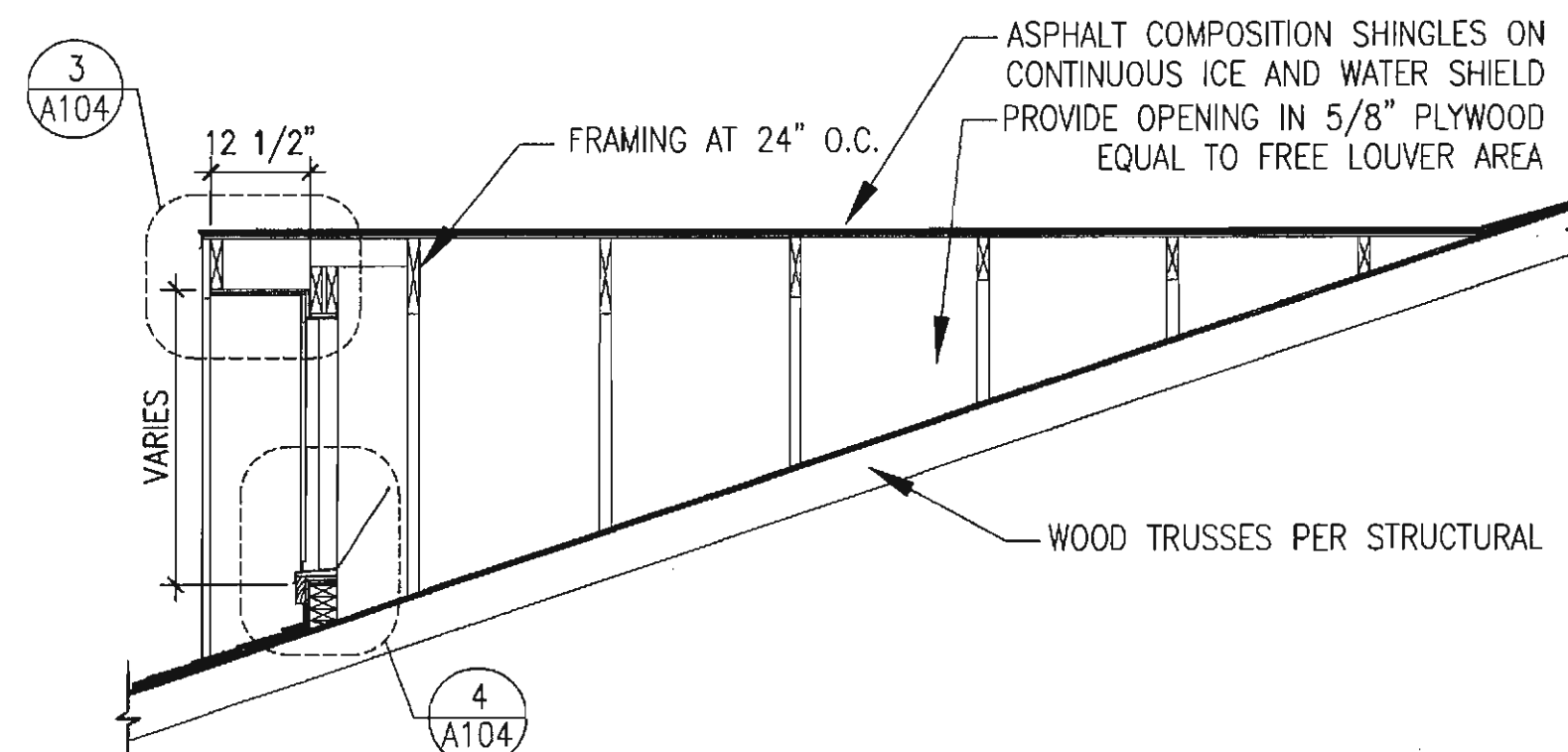


McGRATH SUB-REGIONAL HEALTH CENTER
REFLECTED CEILING PLAN
FILE NAME: 4/20/2009
PROJECT NO: 0198
SCALE: AS NOTED
DRAWN BY: CFP CFP BK



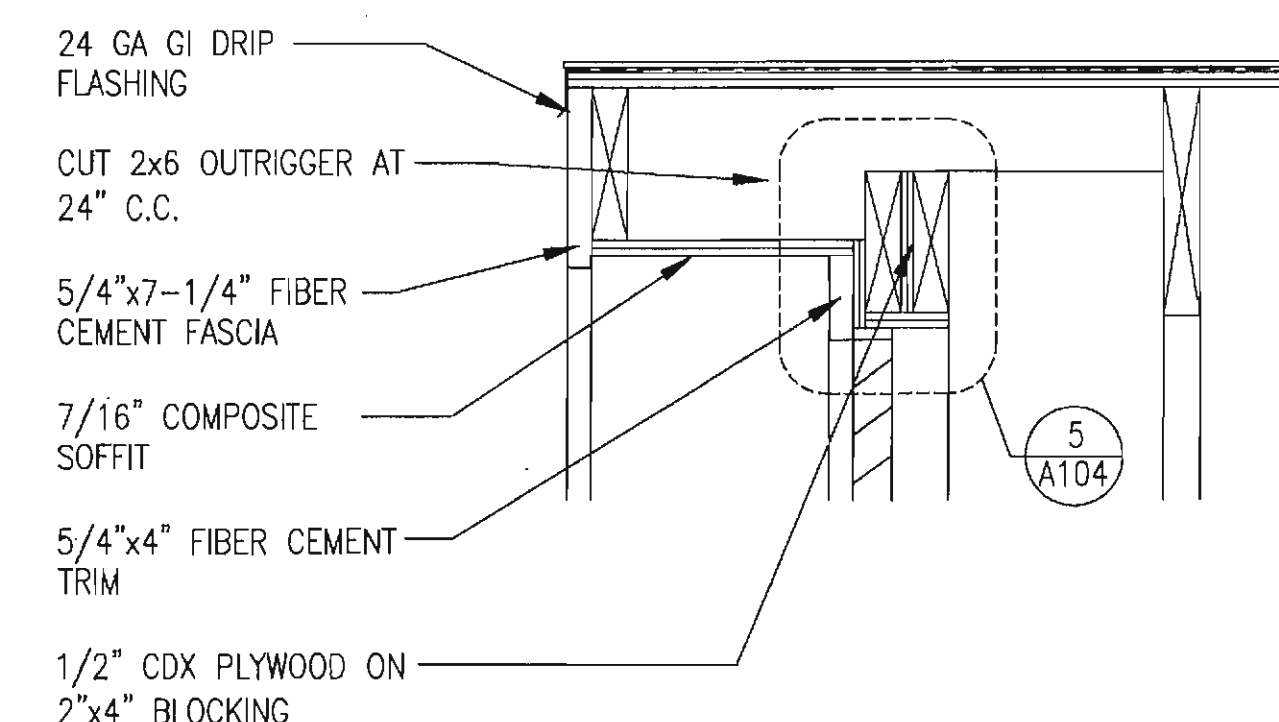
1 ROOF PLAN

A104 GRAPHIC: 1' 6' 8'



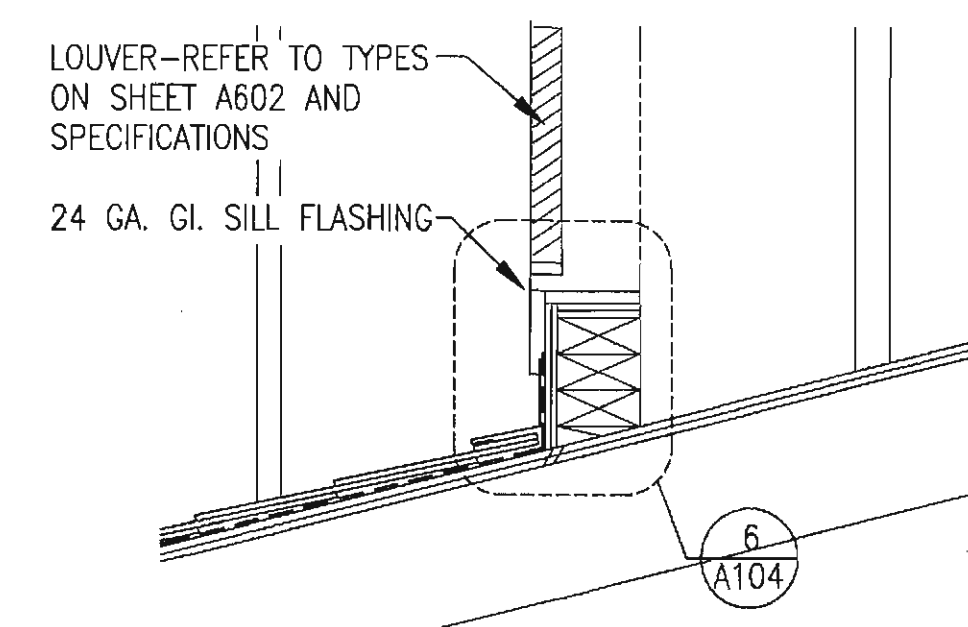
2 LOUVER DETAIL

A104 GRAPHIC: 1' 6' 1' 2' 3'



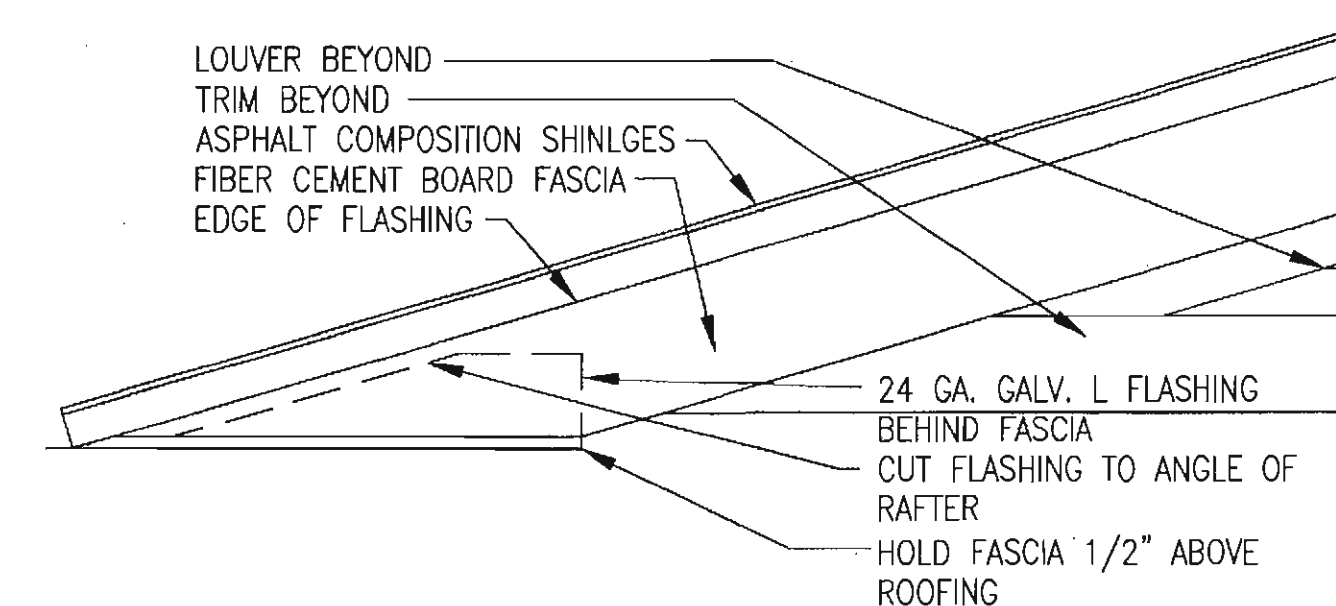
3 LOUVER DETAIL

A104 GRAPHIC: 1' 2' 6' 12'



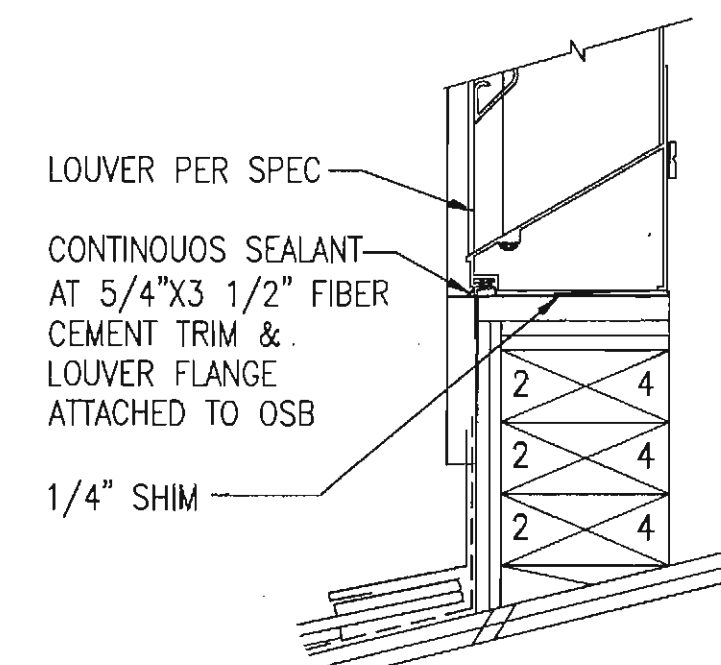
4 LOUVER DETAIL

A104 GRAPHIC: 1' 2' 6' 12'



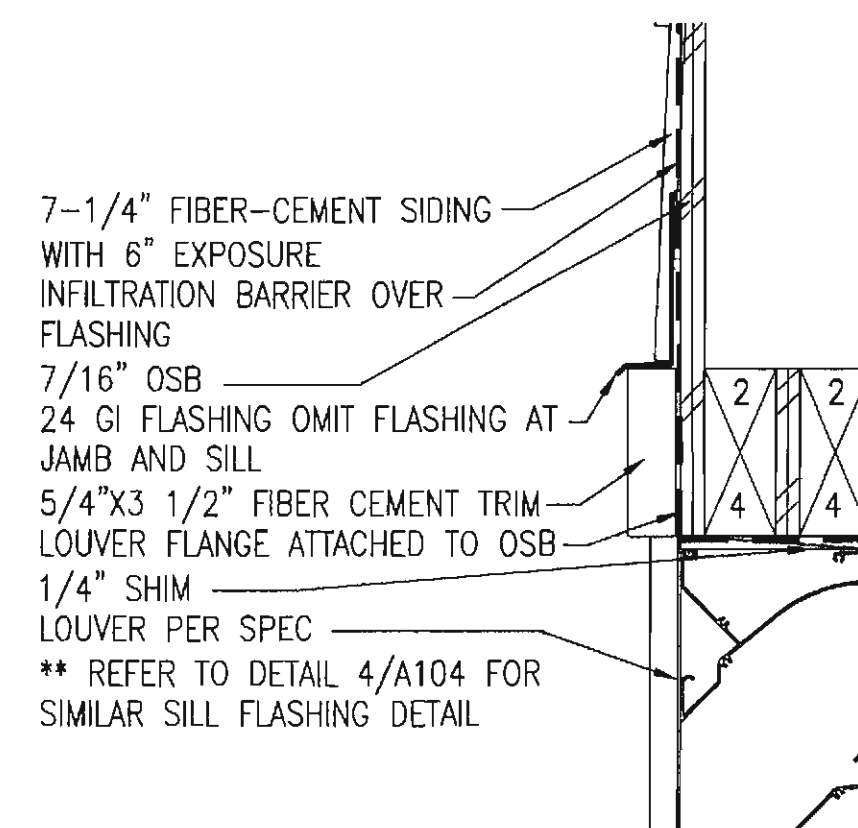
7 DORMER DETAIL

A104 GRAPHIC: 1' 3' 6'



6 LOUVER DETAIL

A104 GRAPHIC: 1' 3' 6'

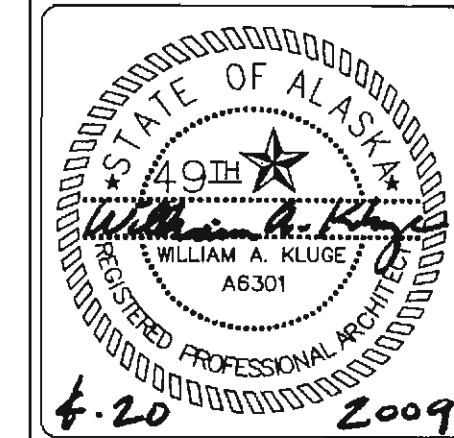


5 LOUVER DETAIL

A104 GRAPHIC: 1' 3' 6'



DATE	REVISIONS	INIT.



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(907) 729-3600



McGRATH SUB-REGIONAL
HEALTH CENTER
ROOF PLAN

FILE NAME: _____
PROJECT NO: 0198
PROJ. ARCH: BK
DATE: 4/20/2009
SCALE: AS NOTED
DRAWN BY: CFP

SHEET
A-104

5 OF 13A

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #: 08
(PROJECT)
Hollow Metal submittal review June 30, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: The hollow metal submittal review was returned and red lined requesting G60 coating on exterior doors. There is not a G-60 coating as specified available, there is an A60 coating as submitted and then it could step up to a G90 but this will be a significant increase in cost. Please advise of your desire as these frames need to be ordered right away.

Greg Waisanen
(DATE) (REQUESTED BY)

RESPONSE:
Please use the G90 coating.

RESPONSE NEEDED BY: 7.6.2010
(ARCHITECT / ENGINEER SIGNATURE) (DATE)

ACTION REQUIRED BY:
RESOLUTION:

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #: 17
(PROJECT)
Color September 7, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: could you please provide the color for the exterior doors

Greg Waisanen
(DATE) (REQUESTED BY)

RESPONSE:

Refer to the Paint Submittal. Exterior Doors shall be EPS 30. Color: Arrow Wood

RESPONSE NEEDED BY: 9-7-10
(ARCHITECT / ENGINEER SIGNATURE)

ACTION REQUIRED BY: 9.8.2010
RESOLUTION: (DATE)

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #: 10
(PROJECT)
Colors July 13, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: The trim color chosen for the trim boards "Iron Gray" is not available on smooth boards. Can the trims be textured in lieu of smooth? Iron Gray is available on trim boards with the Rustic texture that matches the cedar mill texture of the lap siding.

Greg Waisanen
(DATE) (REQUESTED BY)

RESPONSE:

The only trim board specified as "Iron Gray" is the roof fascia. The 'rustic texture' for the "Iron Gray" fascia board is approved.

Note: All other trim board (4" trim at lap siding) shall be 'Heathered Moss'.

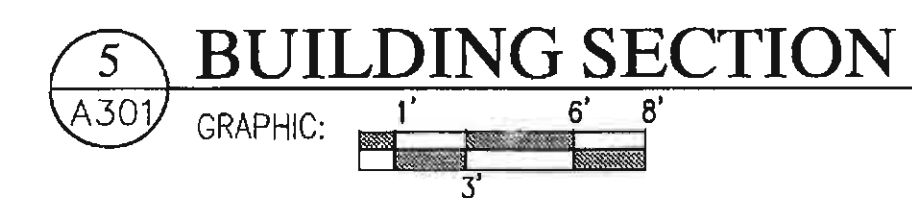
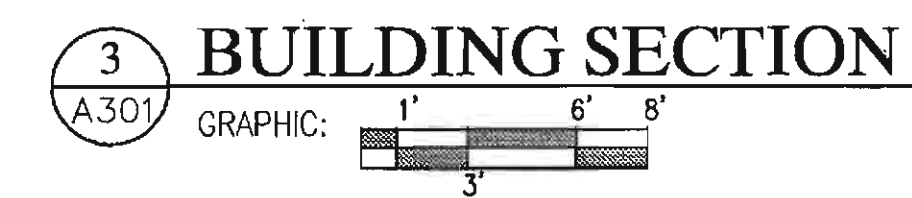
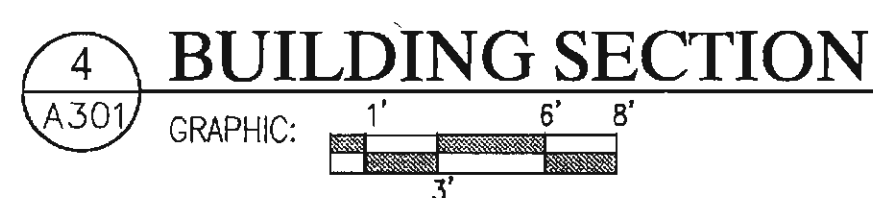
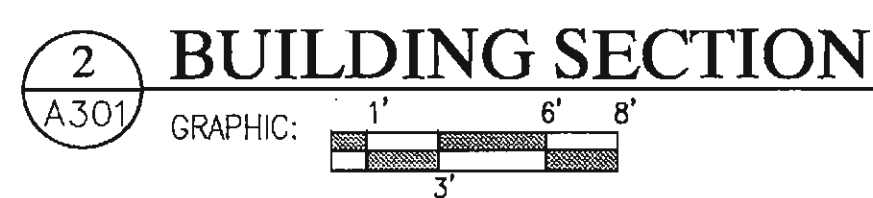
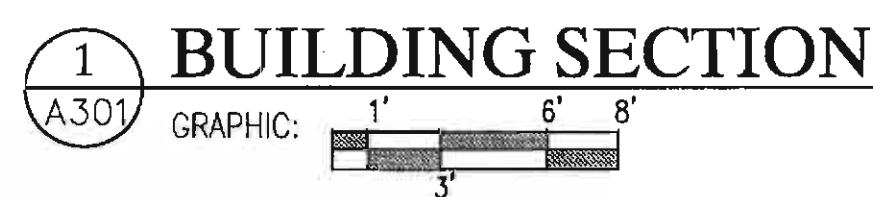
RESPONSE NEEDED BY: 7-13-10
(ARCHITECT / ENGINEER SIGNATURE)

ACTION REQUIRED BY: 7.13.2010
RESOLUTION: (DATE)

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

SHEET
A-201

6 OF 13A

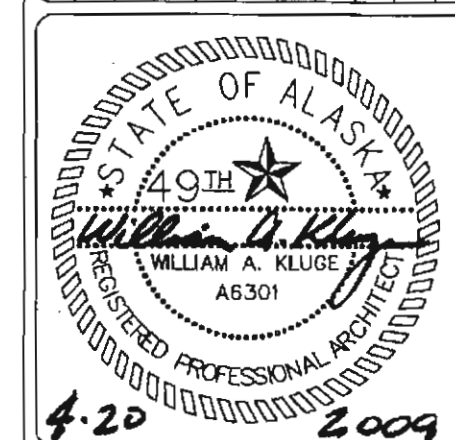


SHEET
A-301

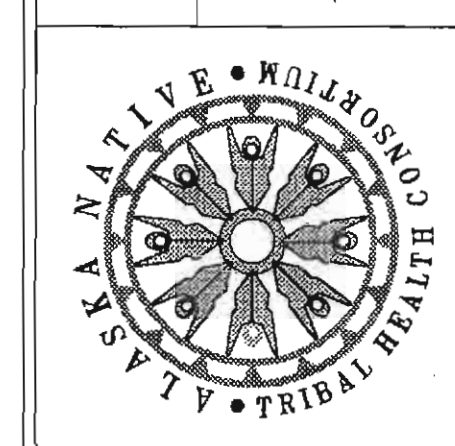
7 OF 13A



INIT.	
REVISIONS	
DATE	



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(907) 729-3600

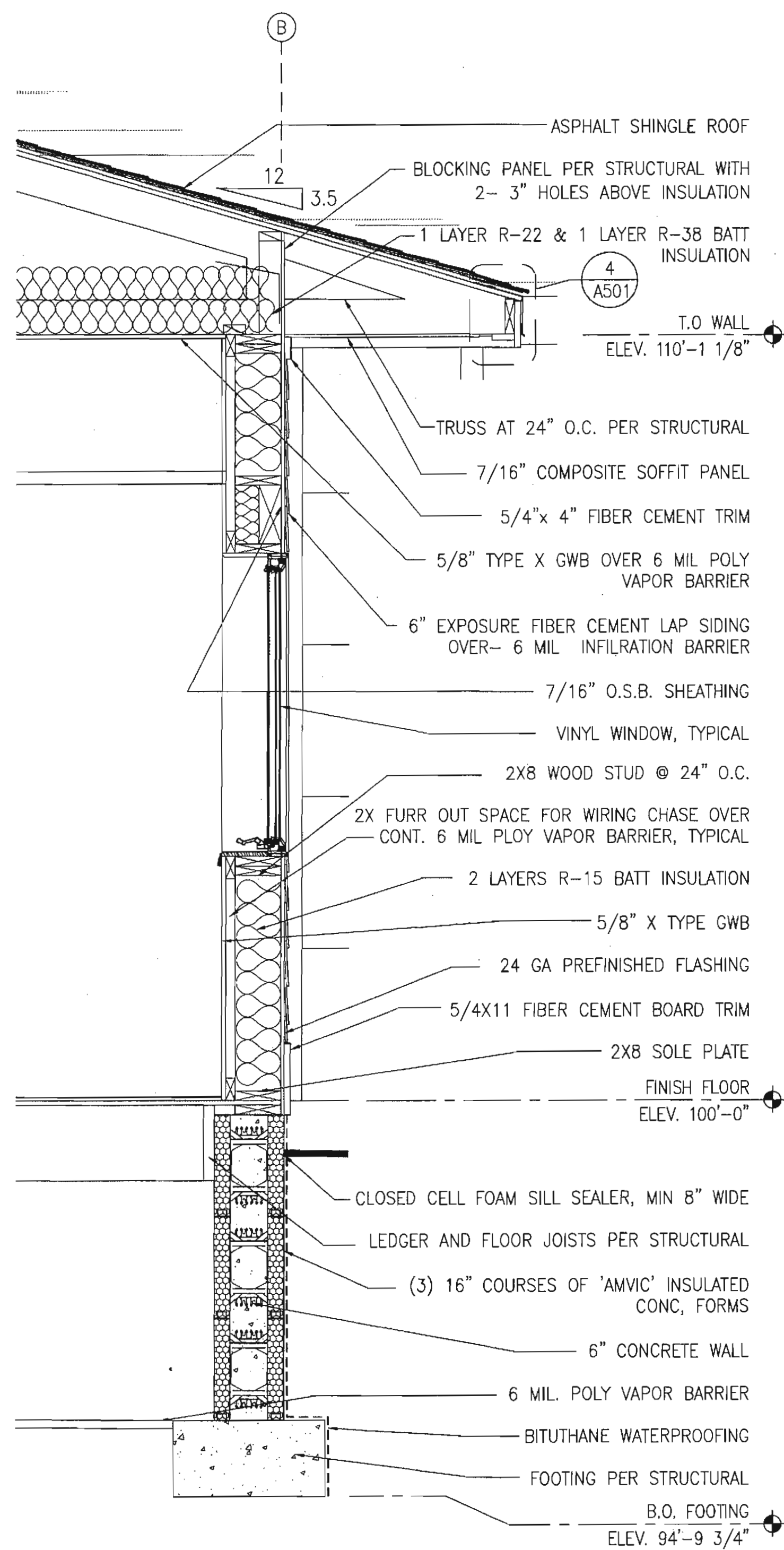


McGRATH SUB-REGIONAL
HEALTH CENTER
WALL SECTIONS

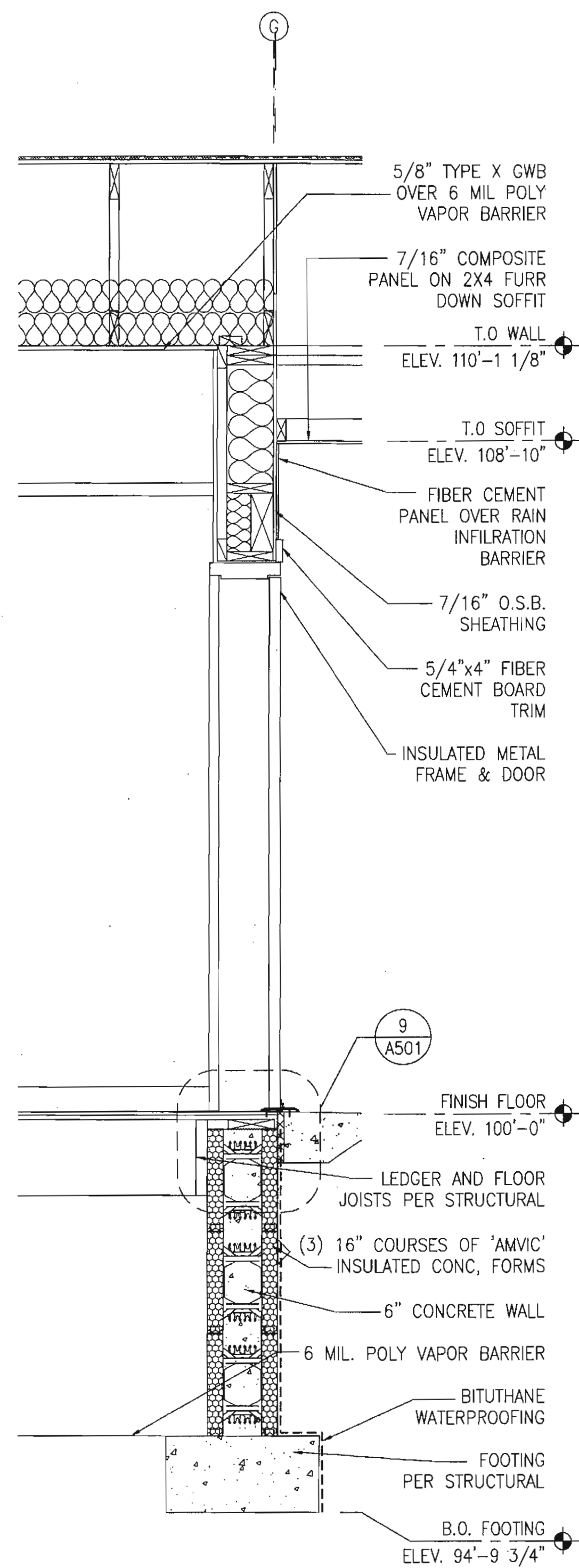
FILE NAME:
PROJECT NO: 0198
PROJ ARCH: BK

DATE: 4/20/2009
SCALE: AS NOTED
DRAWN BY: CFP

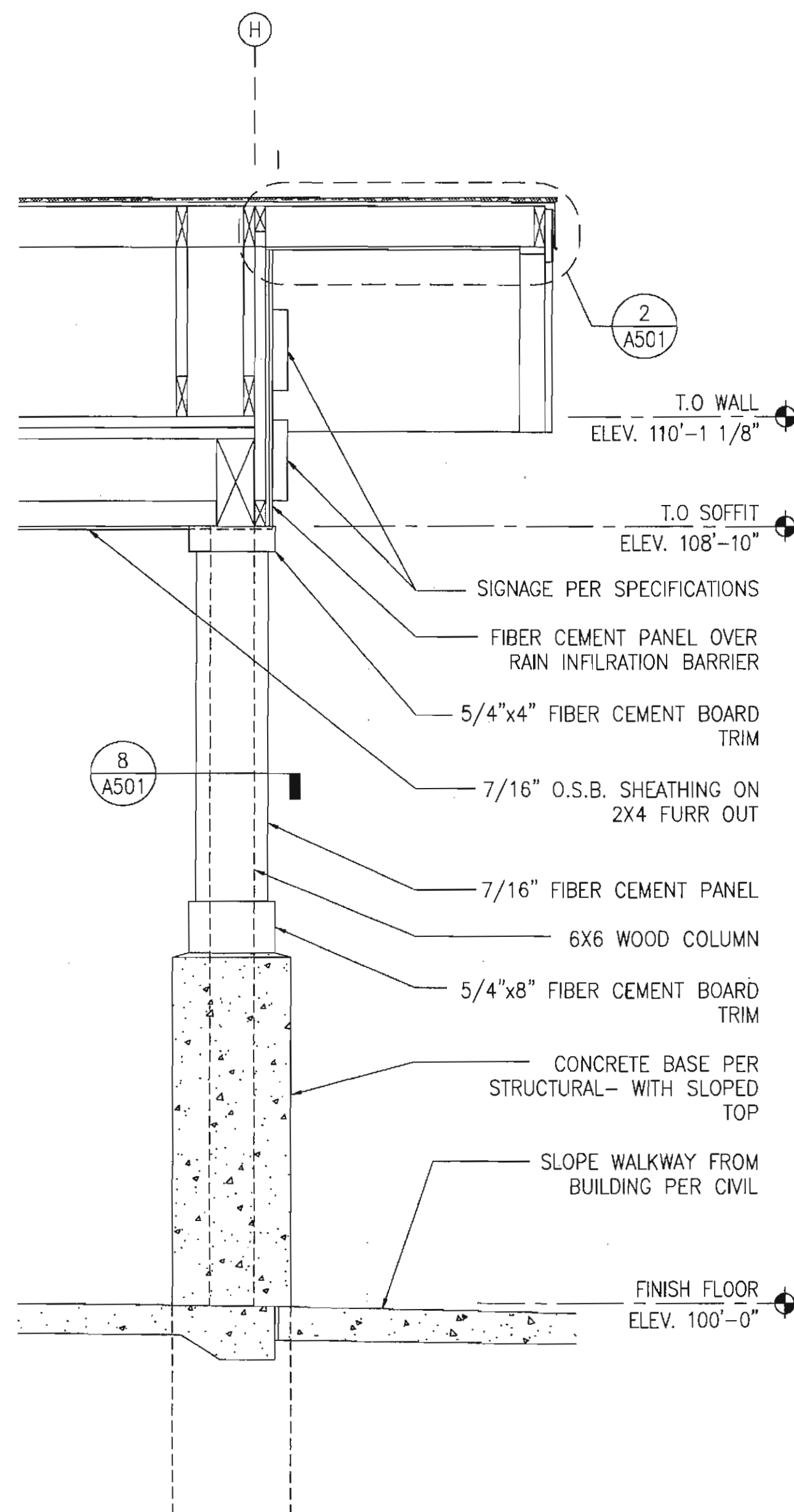
SHEET
A-401
8 OF 13A



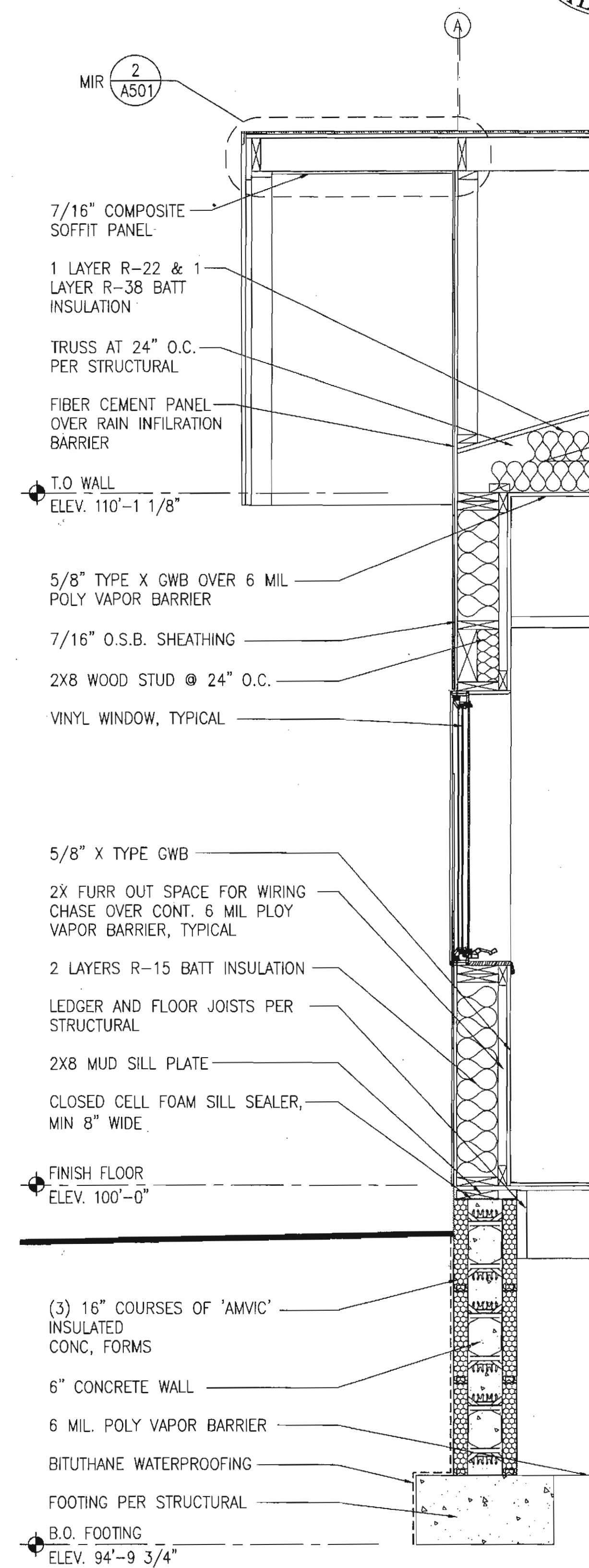
1 WALL SECTION
A401 GRAPHIC: 1" 4" 12" 24"
2' 6"



2 WALL SECTION
A401 GRAPHIC: 1" 4" 12" 24"
2' 6"



3 WALL SECTION
A401 GRAPHIC: 1" 4" 12" 24"
2' 6"



4 WALL SECTION
A401 GRAPHIC: 1" 4" 12" 24"
2' 6"

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #:16
(PROJECT)

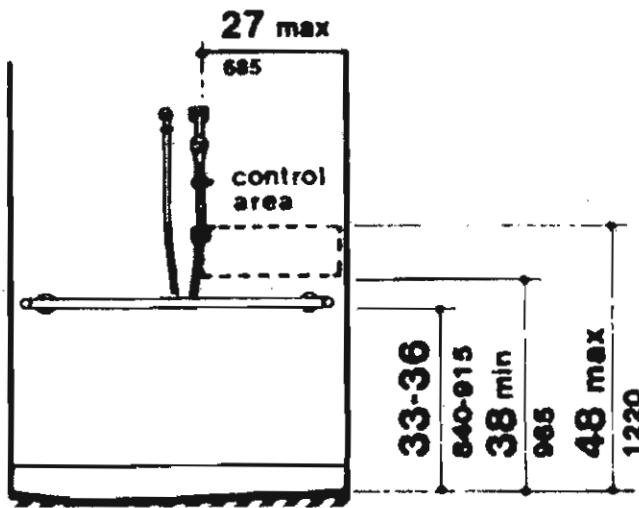
Shower 115 August 30, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: could you please verify the height for the shower valves, head and slide bars

Dave Brown
(REQUESTED BY)

(DATE)
RESPONSE:8-30-10

Shower head height shall be 72" A.F.F. Please reference the diagram to the right for applicable ADA requirements.



RESPONSE NEEDED BY: _____ (ARCHITECT / ENGINEER SIGNATURE)
9.30.2010
(DATE)

ACTION REQUIRED BY: _____
RESOLUTION:

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #:07
(PROJECT)

1:3 A 402 & finish schedule
REFERENCE: (DRAWING OR SPEC.) (DATE)
6-29-2010

DESCRIPTION: details 1 through 3 on sheet A-402 call out a P-lam wainscot in room 116, the finish schedule calls out ceramic tile on these walls. Please advise

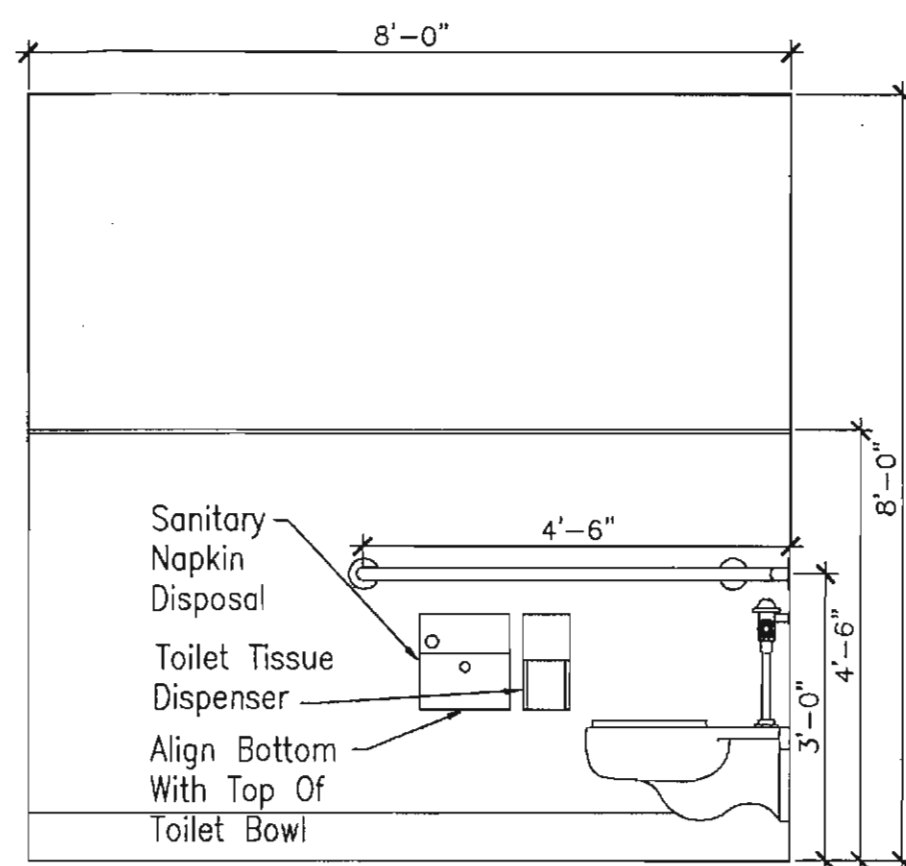
Greg Waisanen (DATE) 6-29

RESPONSE:
Toilet Room 116 shall have wall tile from floor to ceiling per the construction documents. Please see notes below sheet tags 1-3 on A-402, "TOILET-116: SAME AS TOILET-102, BUT MIRRORED AND WITH W4 PER A-601."

RESPONSE NEEDED BY: _____ (ARCHITECT / ENGINEER SIGNATURE)
6.30.2010
(DATE)

ACTION REQUIRED BY: _____
RESOLUTION:

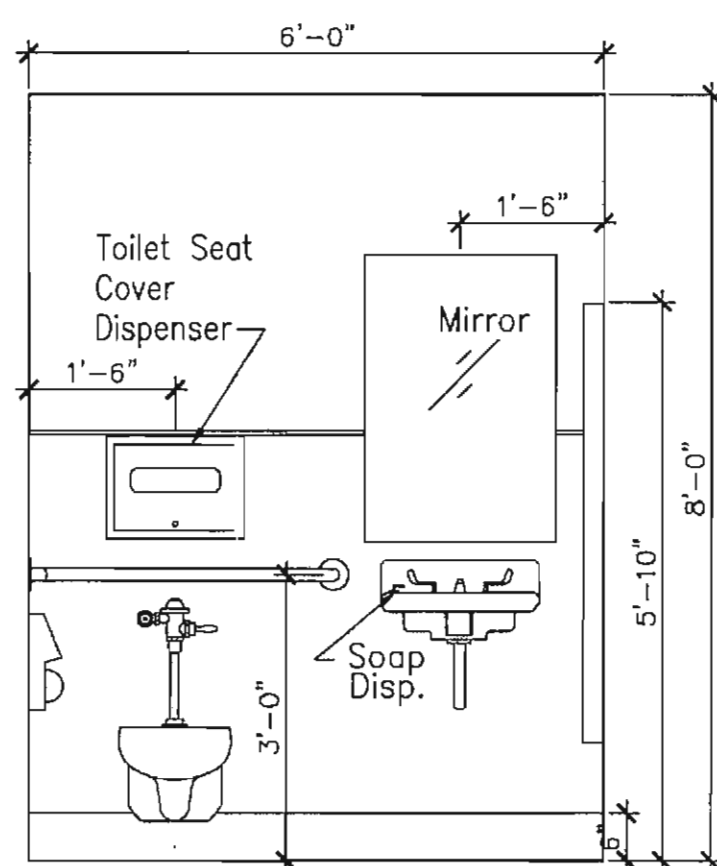
Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.



1 TOILET-102

A402 GRAPHIC: 0 6" 12" 24" 48"

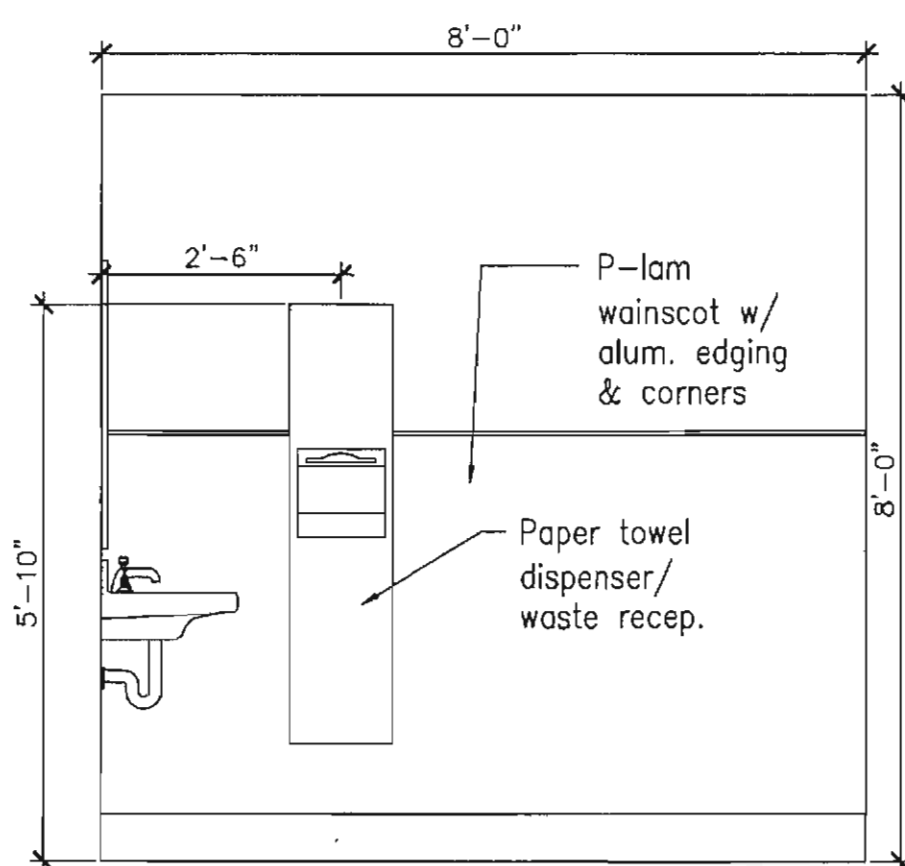
ELEVATION 1/A402 ONLY:
TOILET-103 & TOILET-138: SAME AS TOILET-102
TOILET-116: SAME AS TOILET-102, BUT MIRRORED AND WITH W4 PER A-601



2 TOILET-102

A402 GRAPHIC: 0 6" 12" 24" 48"

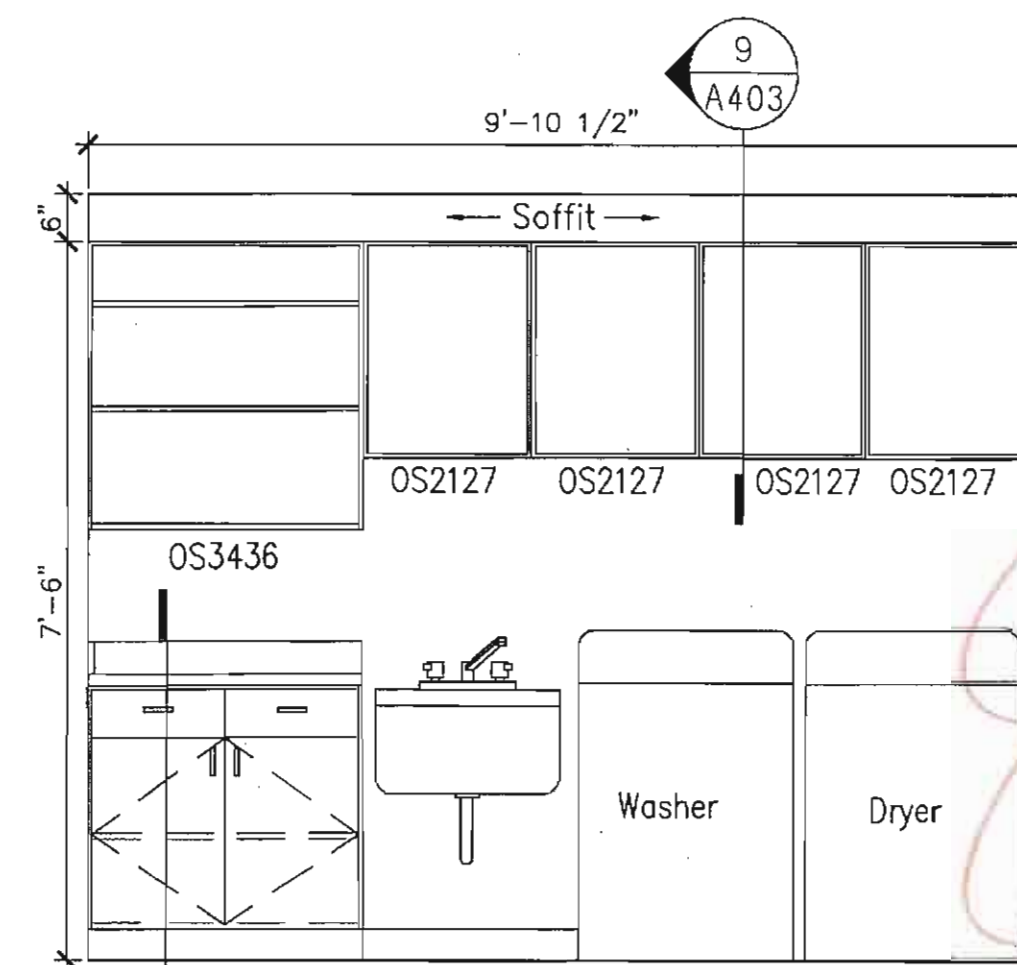
ELEVATION 2/A402 ONLY:
TOILET-103: SAME AS TOILET-102
TOILET-116: SAME AS TOILET-102, BUT MIRRORED AND WITH W4 PER A-601



3 TOILET-102

A402 GRAPHIC: 0 6" 12" 24" 48"

ELEVATION 3/A402 ONLY:
TOILET-103: SAME AS TOILET-102
TOILET-116: SAME AS TOILET-102, BUT MIRRORED AND WITH W4 PER A-601



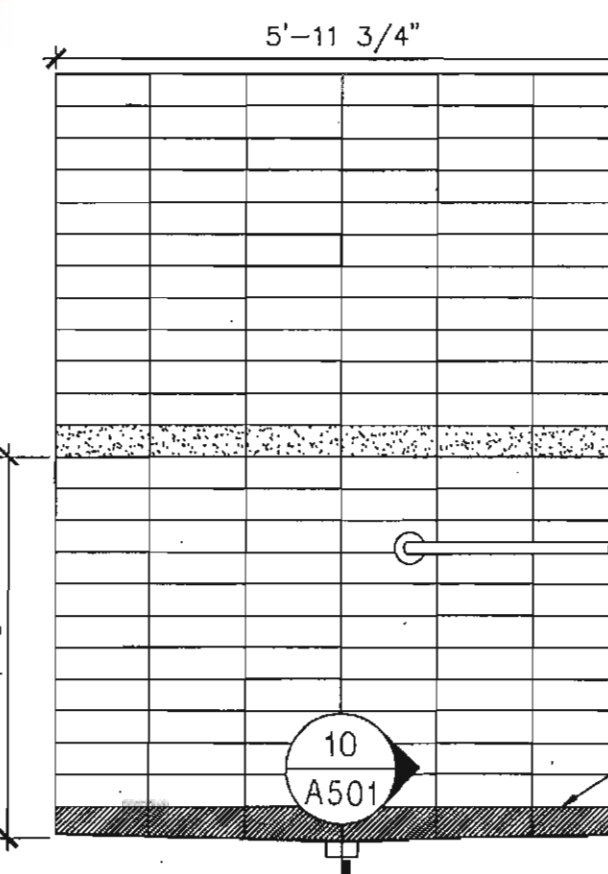
4 LAUNDRY-112

A402 GRAPHIC: 0 6" 12" 24" 48"

CABINETY LEGEND

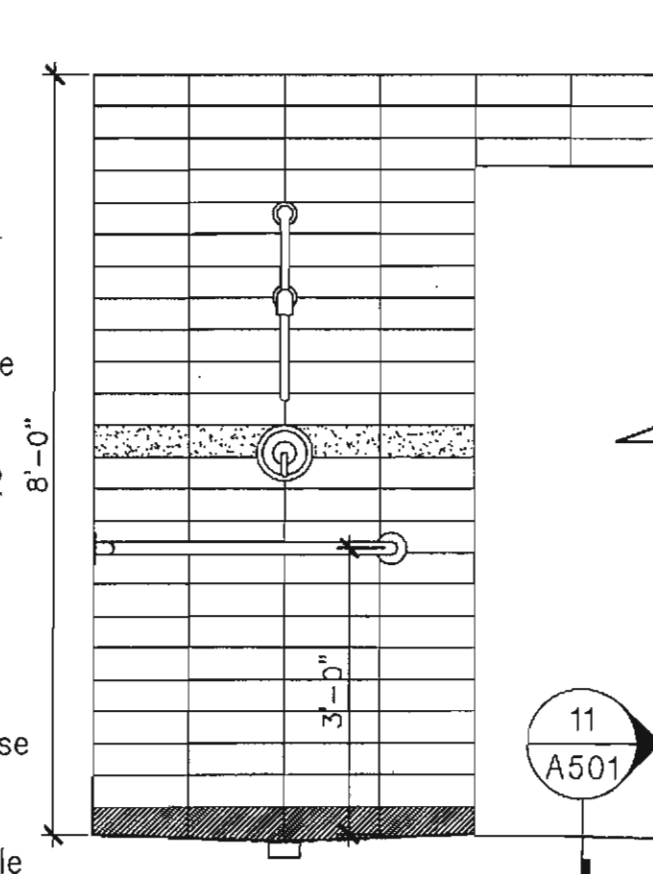
TYPE ———→ BC 36 34
WIDTH OF CABINET ———→
(BASE) HEIGHT A.F.F. TO TOP OF COUNTER OR (UPPER) HEIGHT OF UNIT

BC BASE CABINET UNIT
SB SINK BASE UNIT
DB DRAWER BASE
UC UPPER CABINET WALL UNIT
OS OPEN SHELVING UNIT



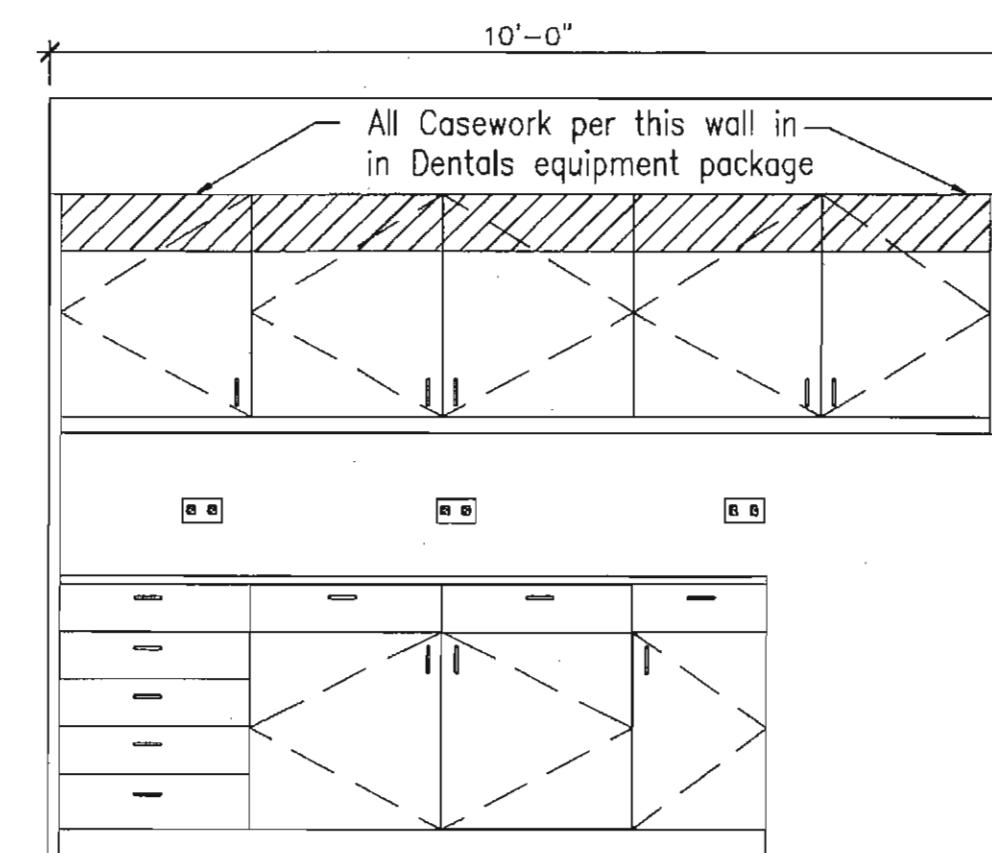
5 SHOWER-115

A402 GRAPHIC: 0 6" 12" 24" 48"



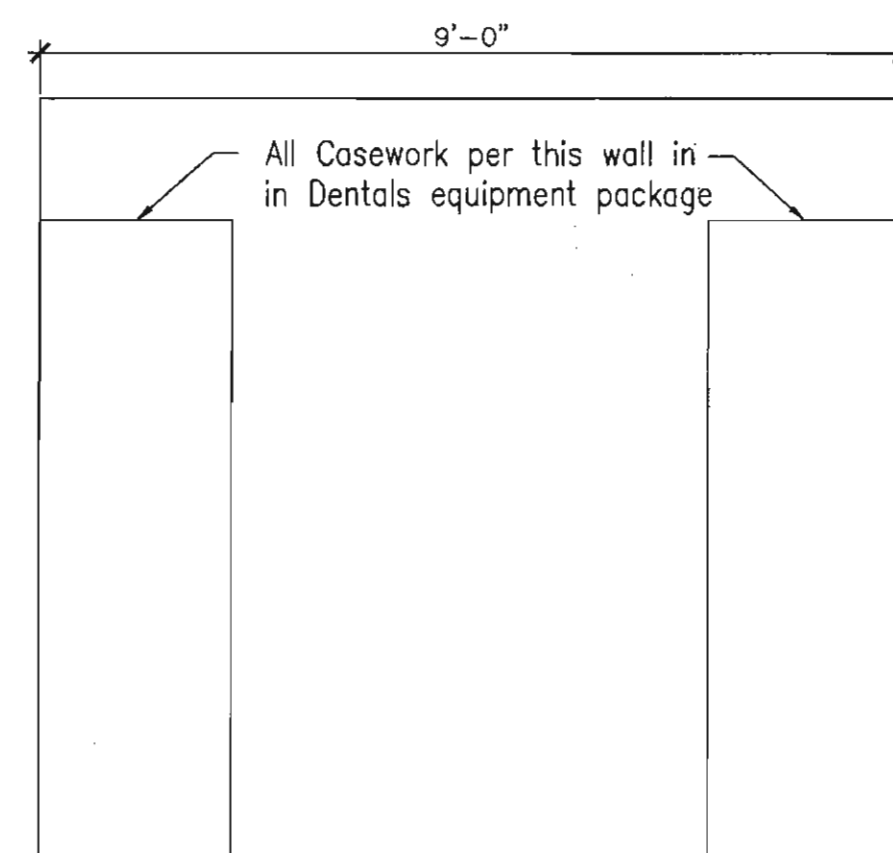
6 SHOWER-115

A402 GRAPHIC: 0 6" 12" 24" 48"



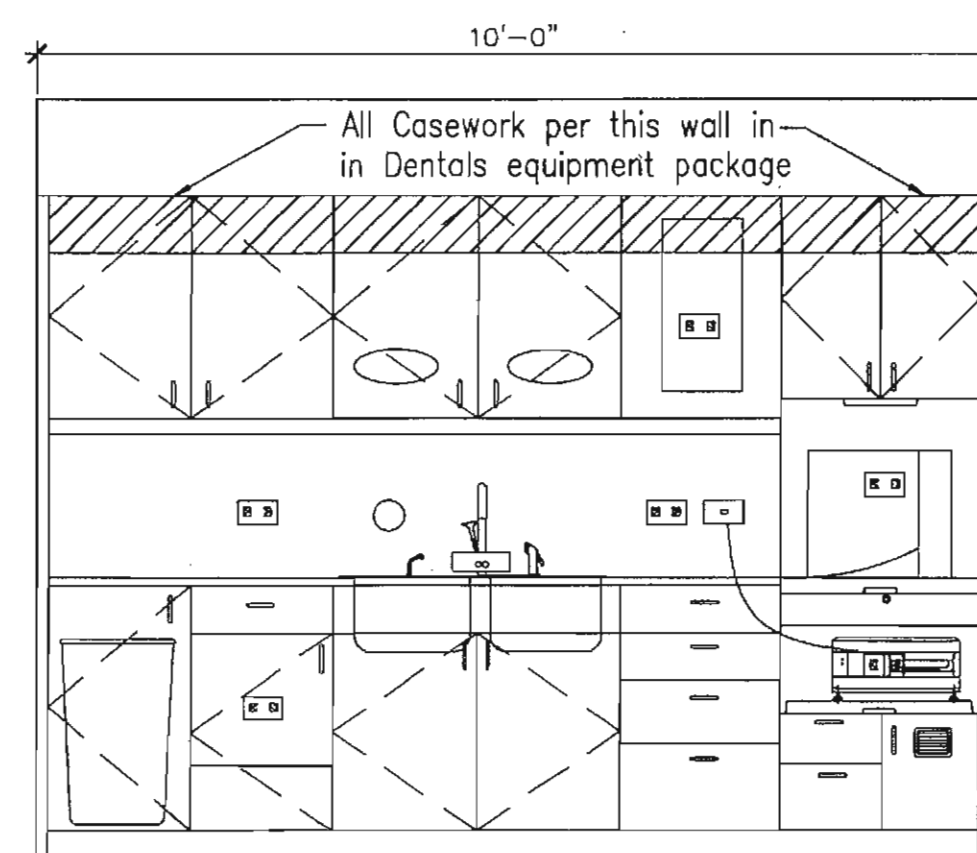
7 CLEAN/DIRTY-118

A402 GRAPHIC: 0 6" 12" 24" 48"



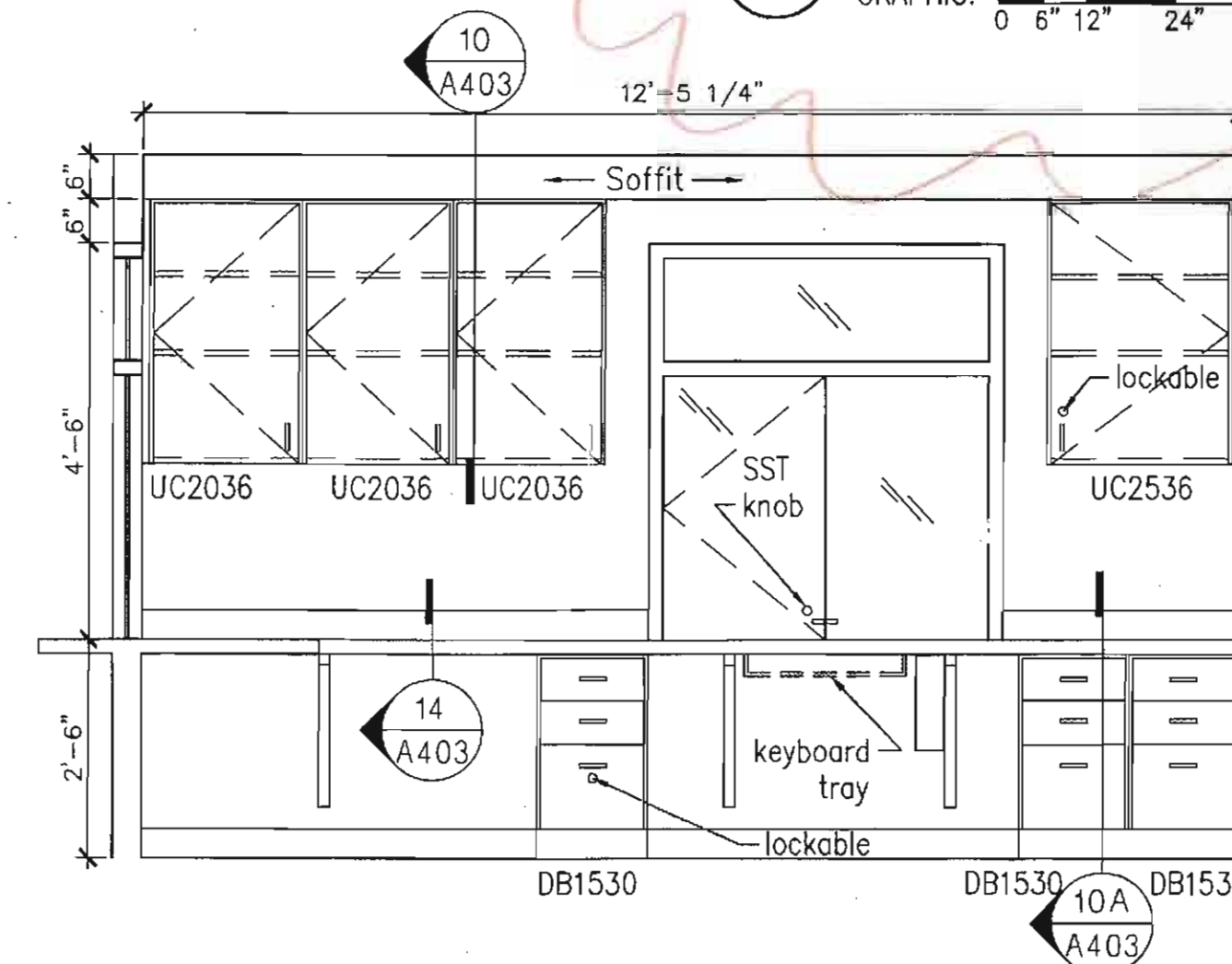
8 CLEAN/DIRTY-118

A402 GRAPHIC: 0 6" 12" 24" 48"



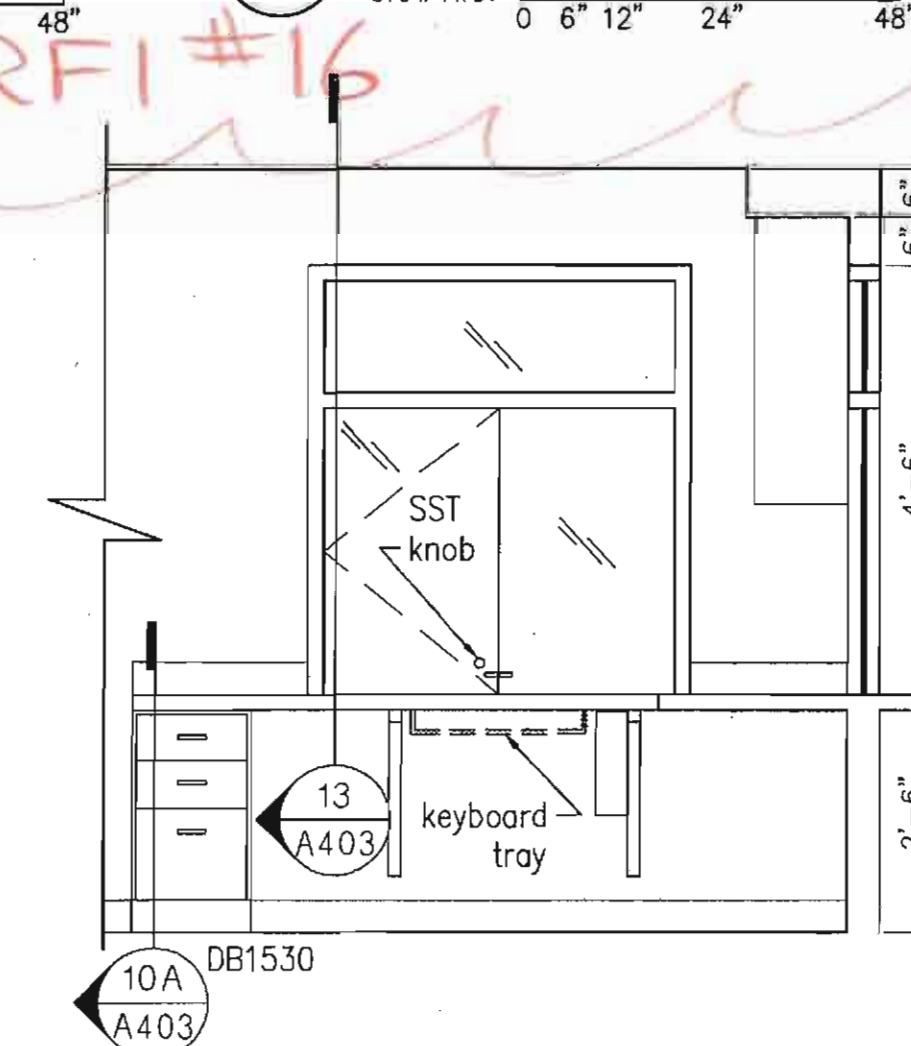
9 CLEAN/DIRTY-118

A402 GRAPHIC: 0 6" 12" 24" 48"



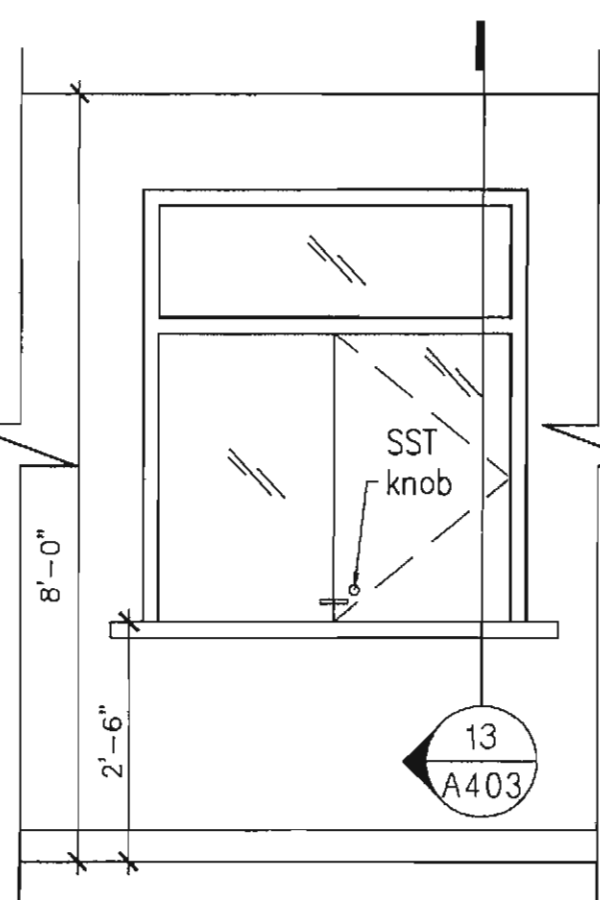
10 RECEPTION-126

A402 GRAPHIC: 0 6" 12" 24" 48"



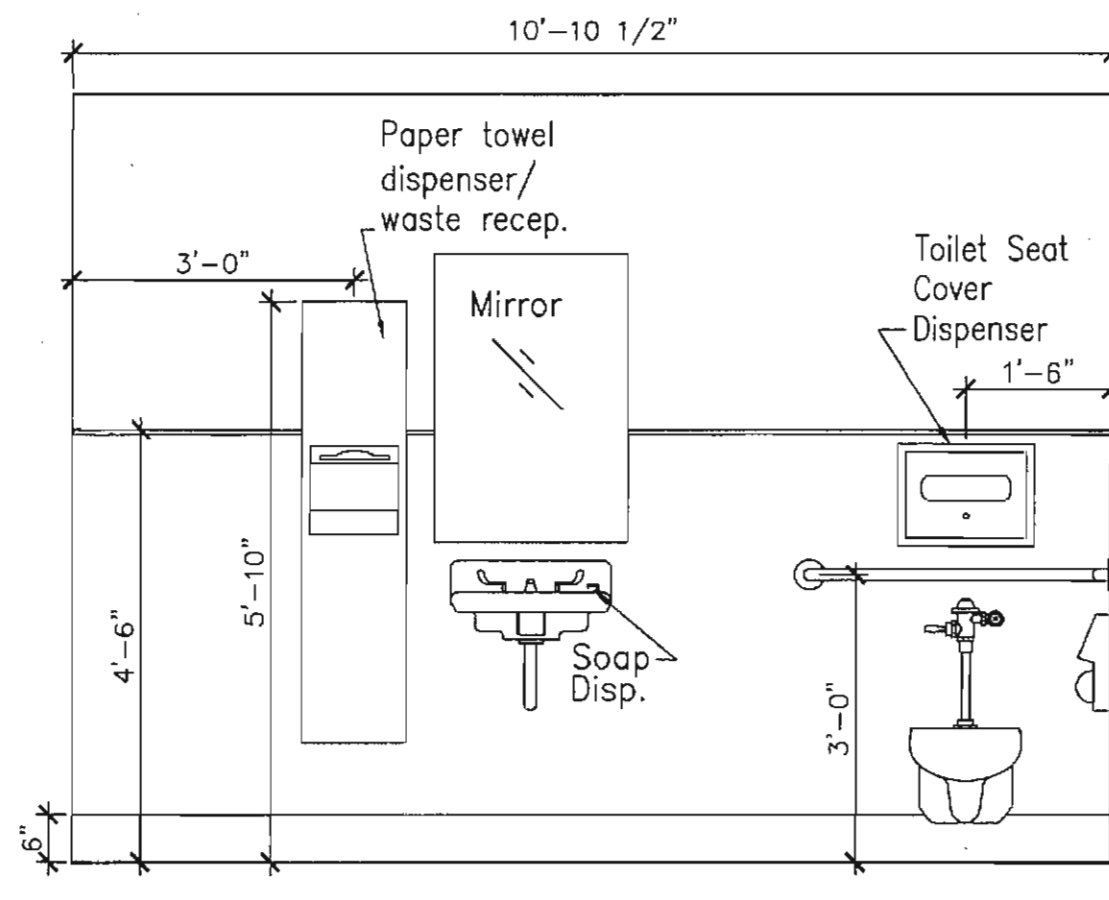
11 RECEPTION-126

A402 GRAPHIC: 0 6" 12" 24" 48"



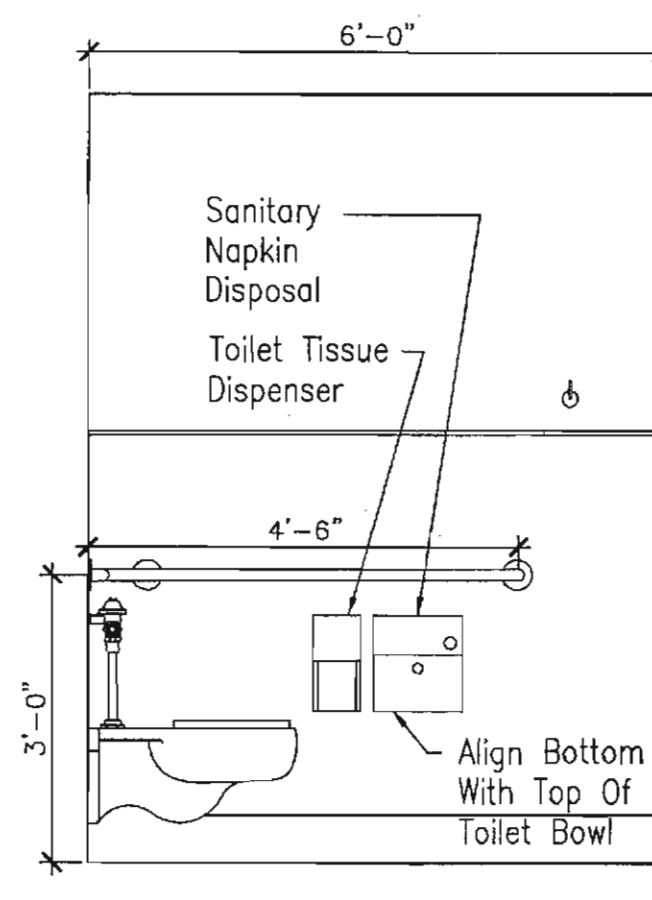
12 WAITING-104

A402 GRAPHIC: 0 6" 12" 24" 48"



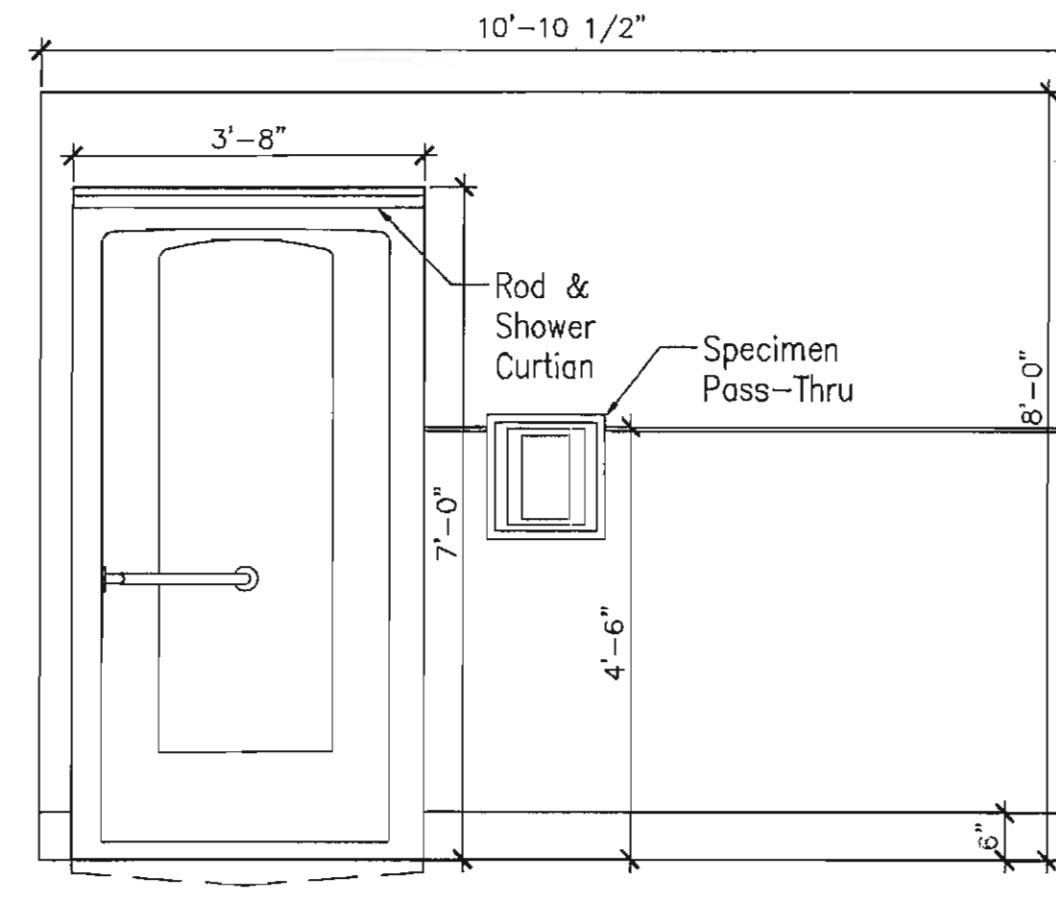
13 H.C. BATH-131

A402 GRAPHIC: 0 6" 12" 24" 48"



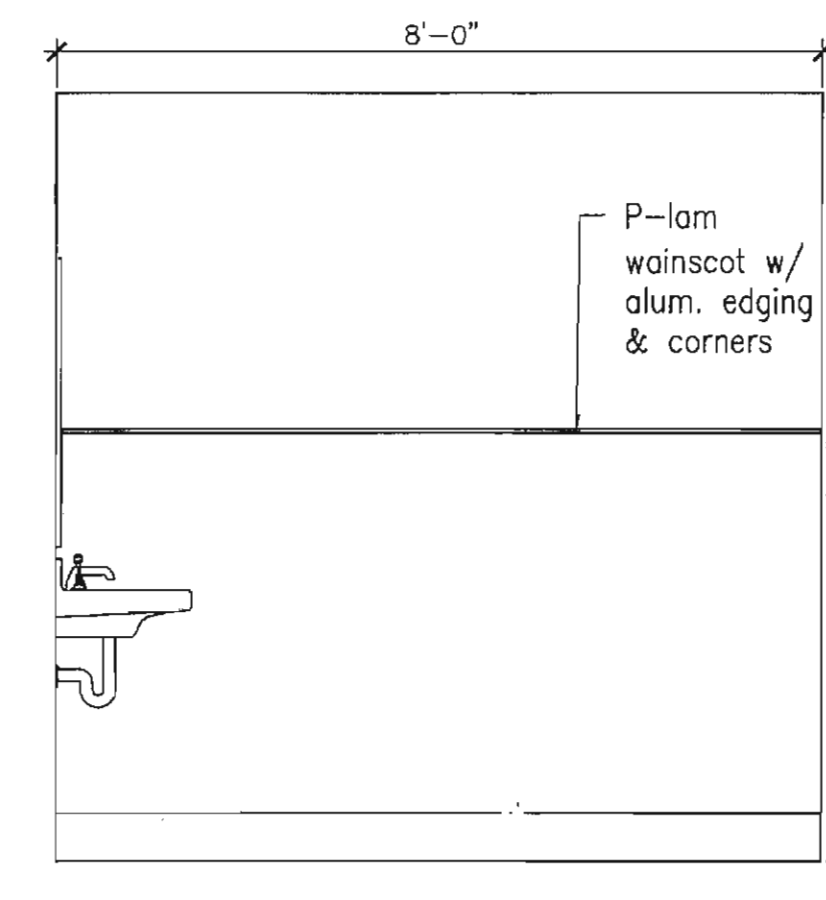
14 H.C. BATH-131

A402 GRAPHIC: 0 6" 12" 24" 48"



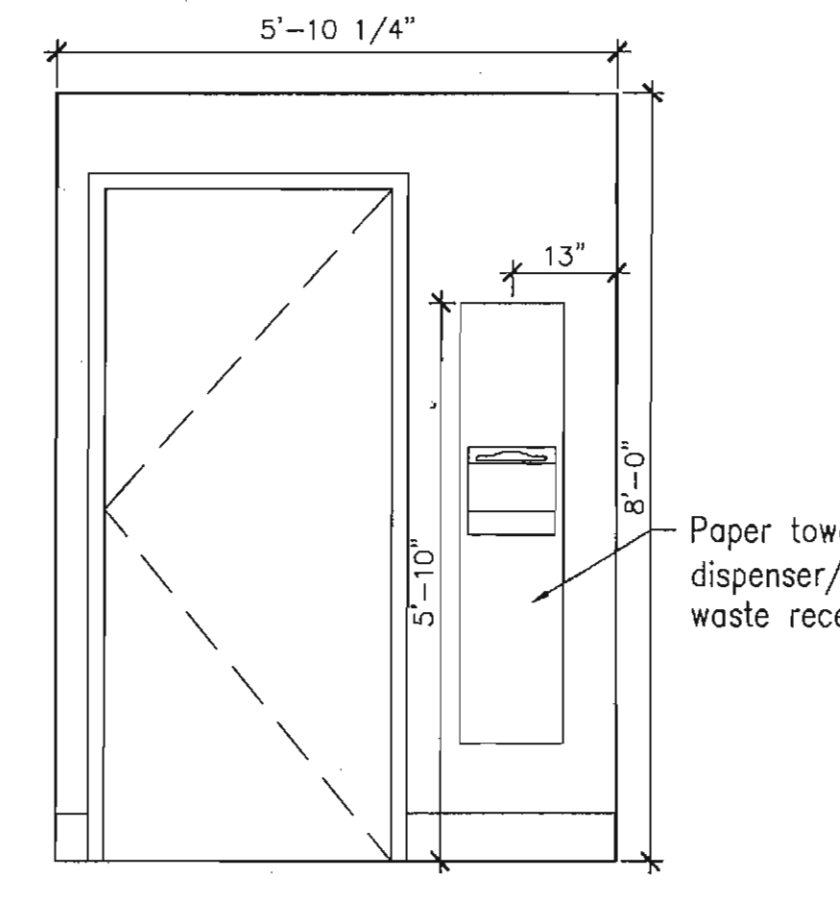
15 H.C. BATH-131

A402 GRAPHIC: 0 6" 12" 24" 48"



16 TOILET-138

A402 GRAPHIC: 0 6" 12" 24" 48"



17 TOILET-138

A402 GRAPHIC: 0 6" 12" 24" 48"

INIT.	
REVISIONS	
DATE	

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

McGrath SUB-REGIONAL HEALTH CENTER

INTERIOR ELEVATIONS

FILE NAME: A-402

PROJECT NO: 0198

PROJ ARCH: BK

DATE: 4/20/2009

SCALE: AS NOTED

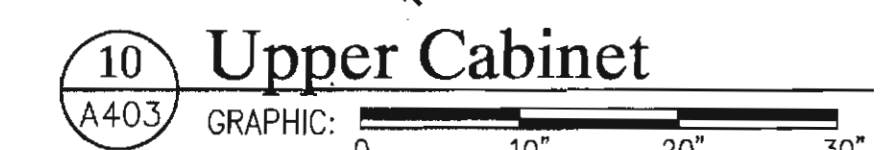
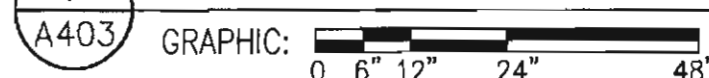
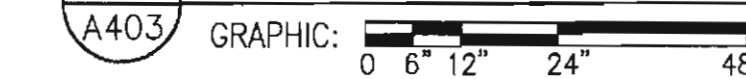
DRAWN BY: CFP CMP

SHEET A-402

9 OF 13A

[illegible]

-
- STATE OF ALASKA
49th
WILLIAM A. KLUGE
A6301
REGISTERED PROFESSIONAL ARCHIVIST
4-30-2009

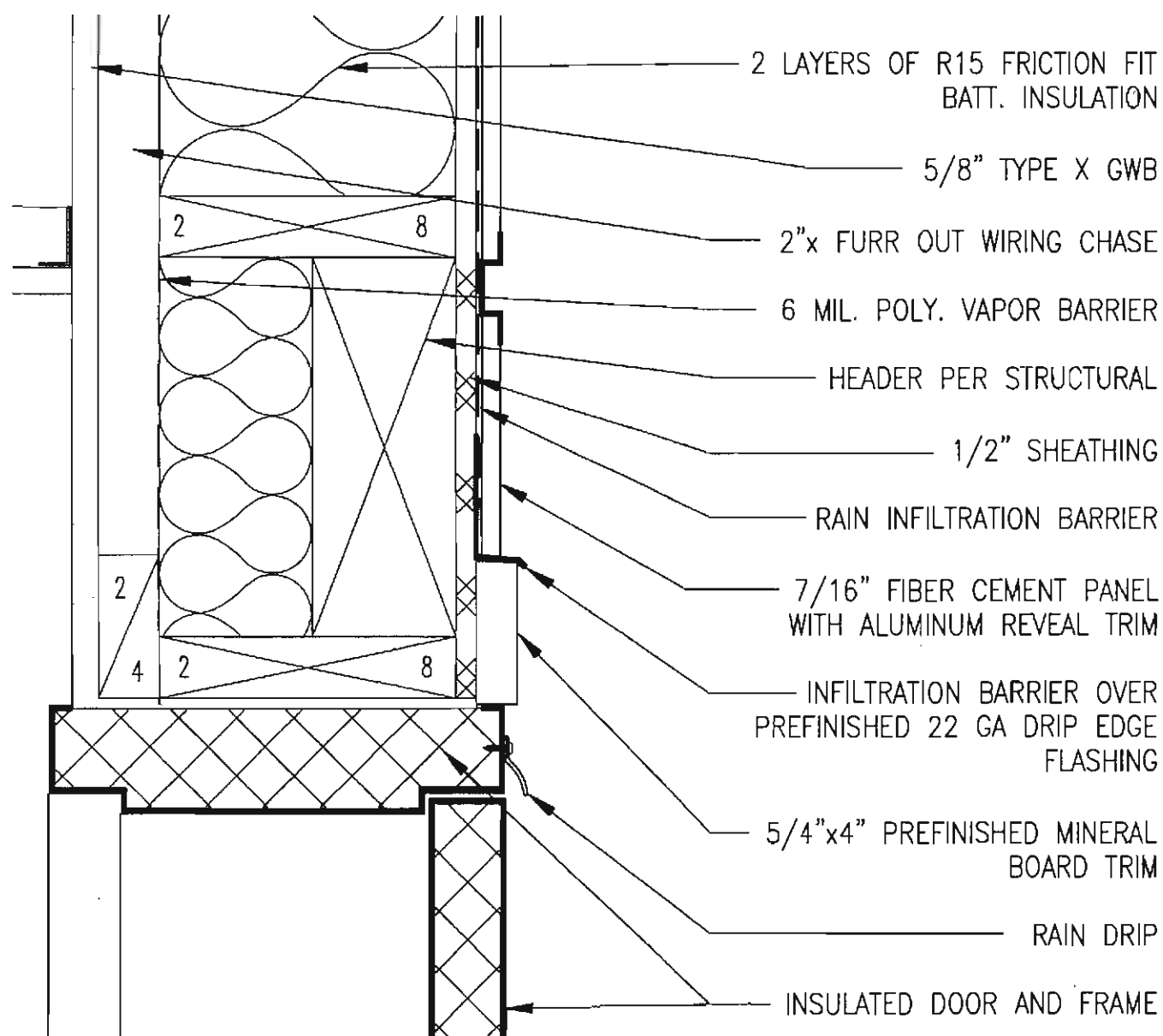


McGRATH SUB-REGIONAL HEALTH CENTER INTERIOR ELEVATIONS		FILE NAME:
2009		PROJECT NO: 0198
OTED		PROJ ARCH: BK
CFP	CMP	

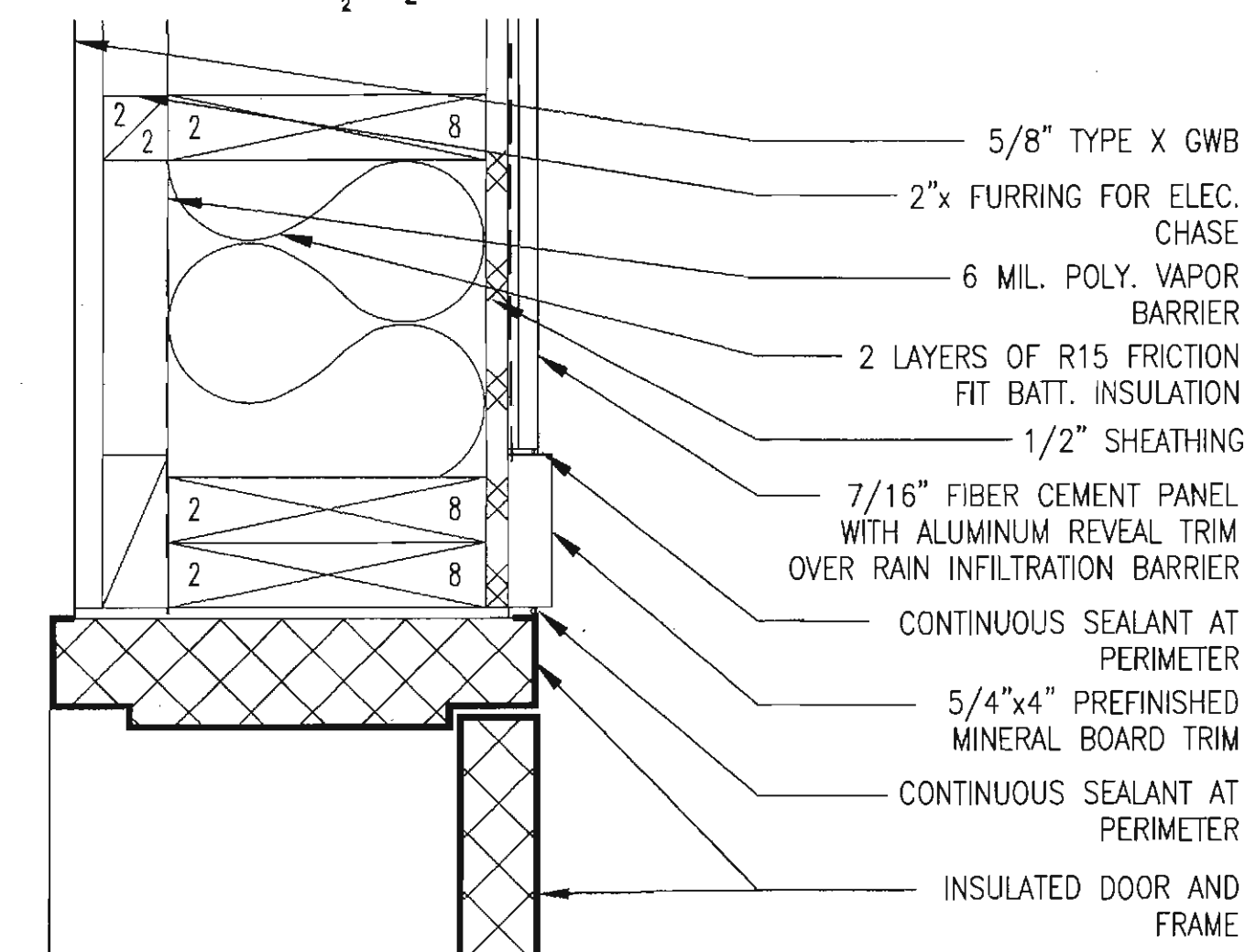
DATE: 4/20/2019
SCALE: AS N
DRAWN BY:

SHEET
A-403

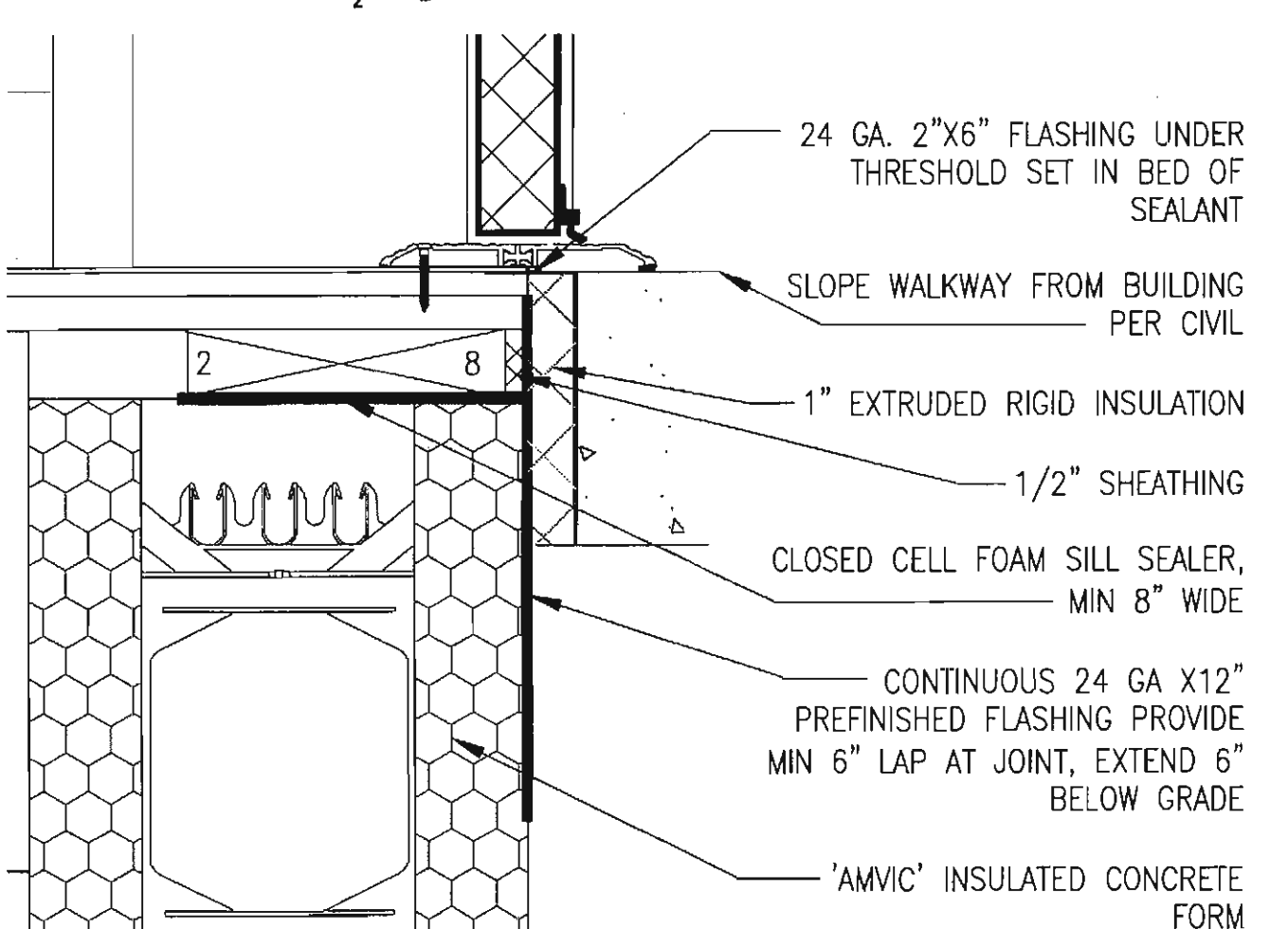
10 OF 13A



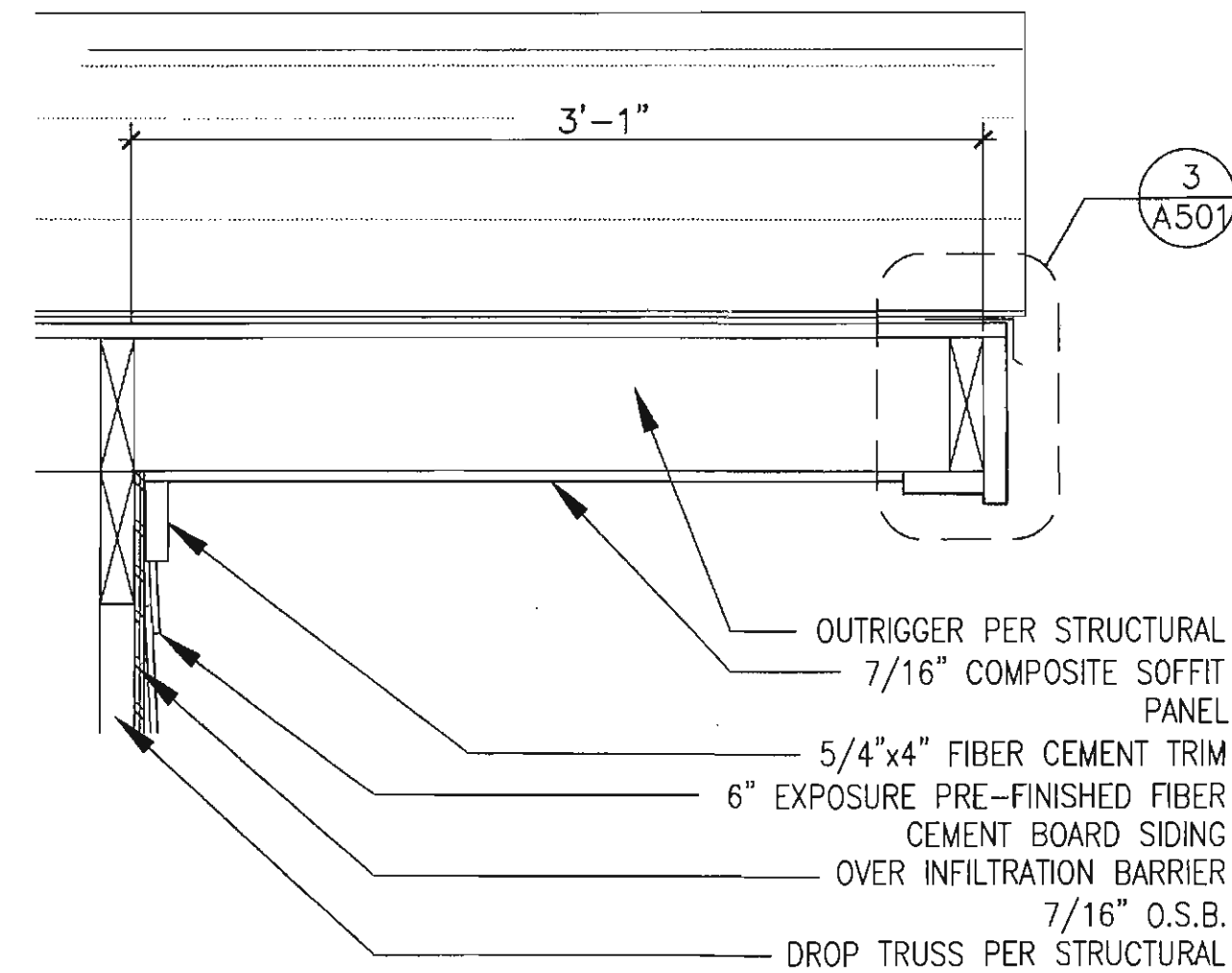
1 Door Head Detail
A501 GRAPHIC: 1" 3" 6"



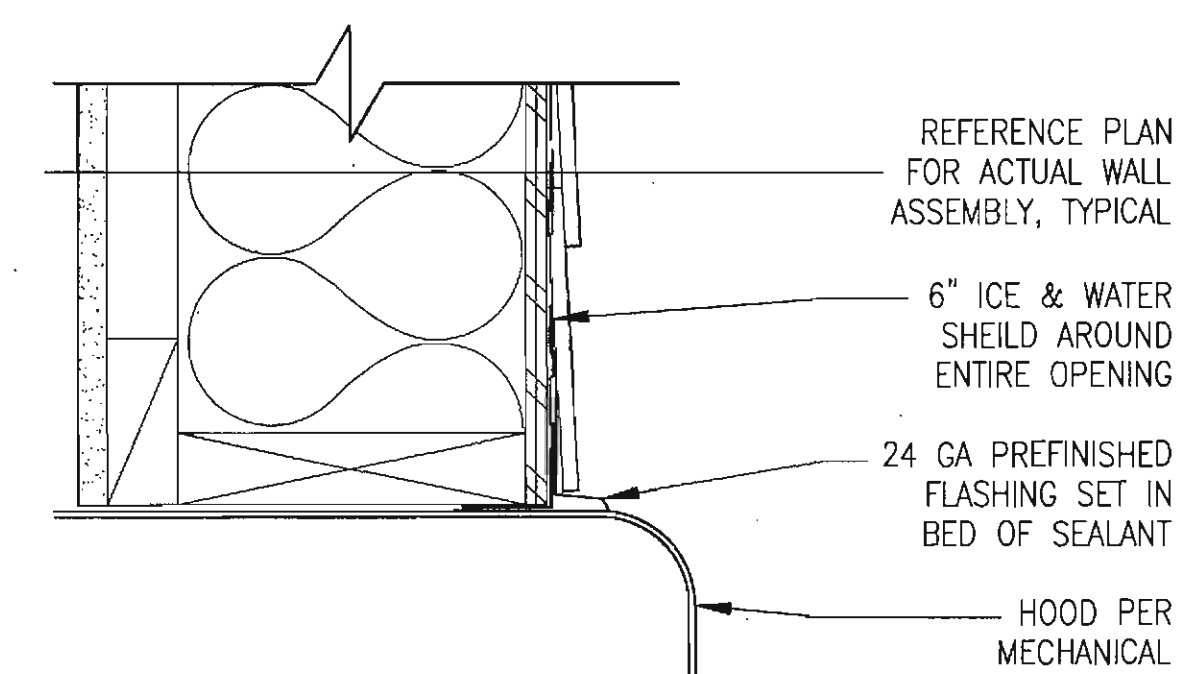
5 Door Jamb Detail
A501 GRAPHIC: 1" 3" 6"



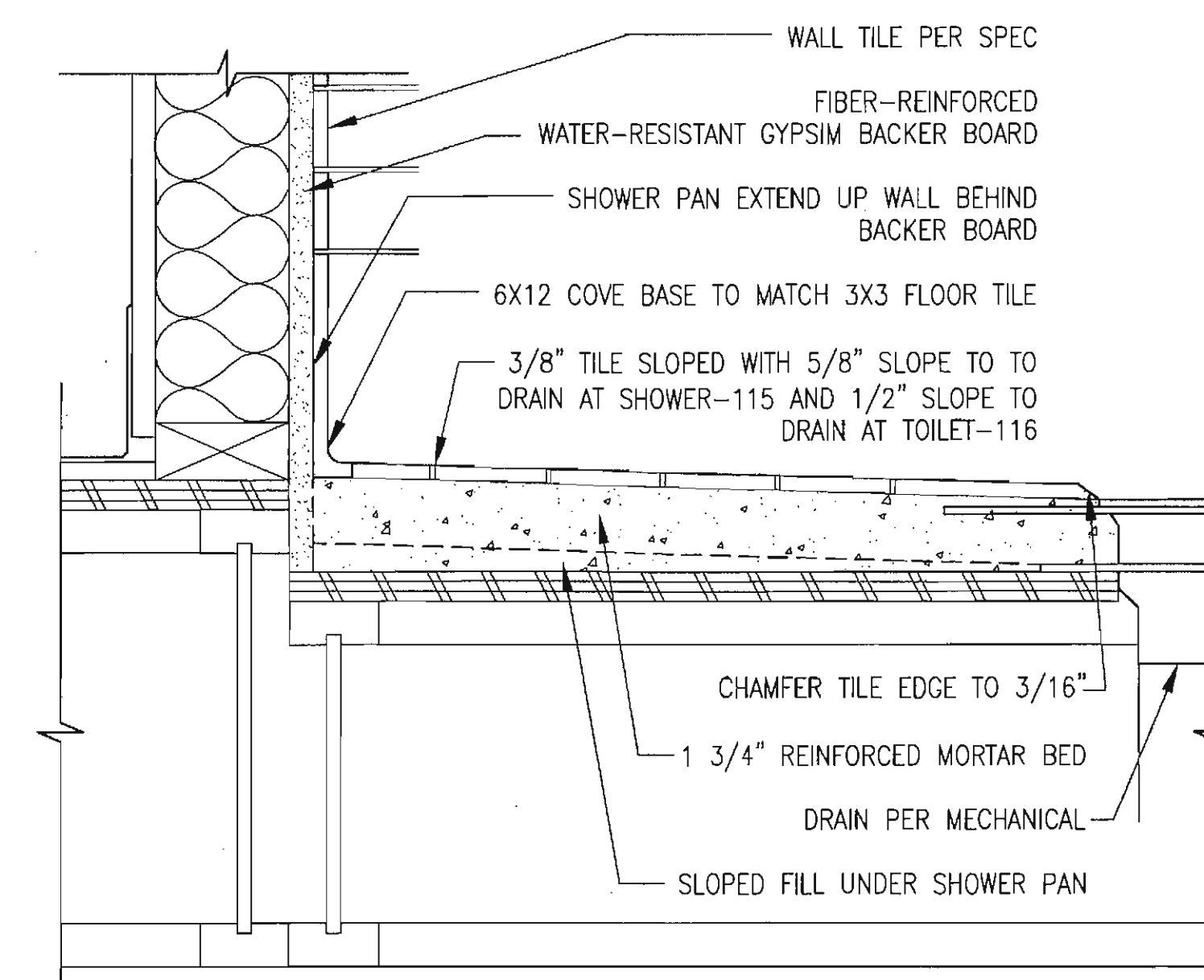
9 Threshold Detail
A501 GRAPHIC: 1" 3" 6"



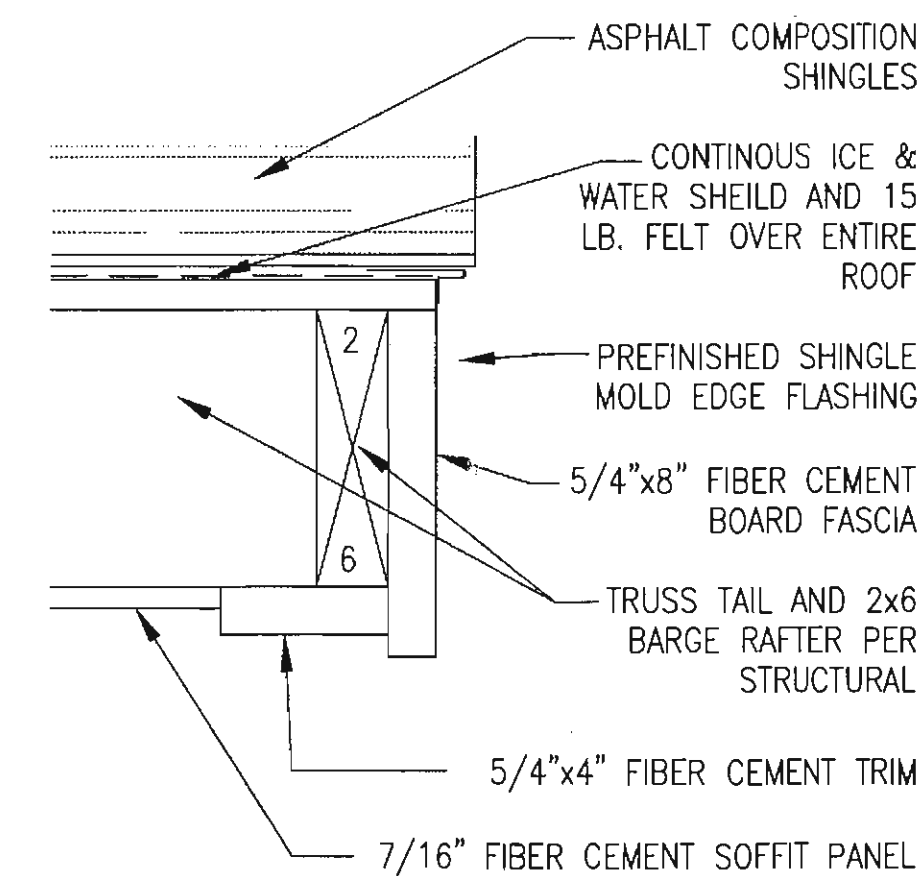
2 Rake Soffit Detail
A501 GRAPHIC: 1" 2" 6" 12"



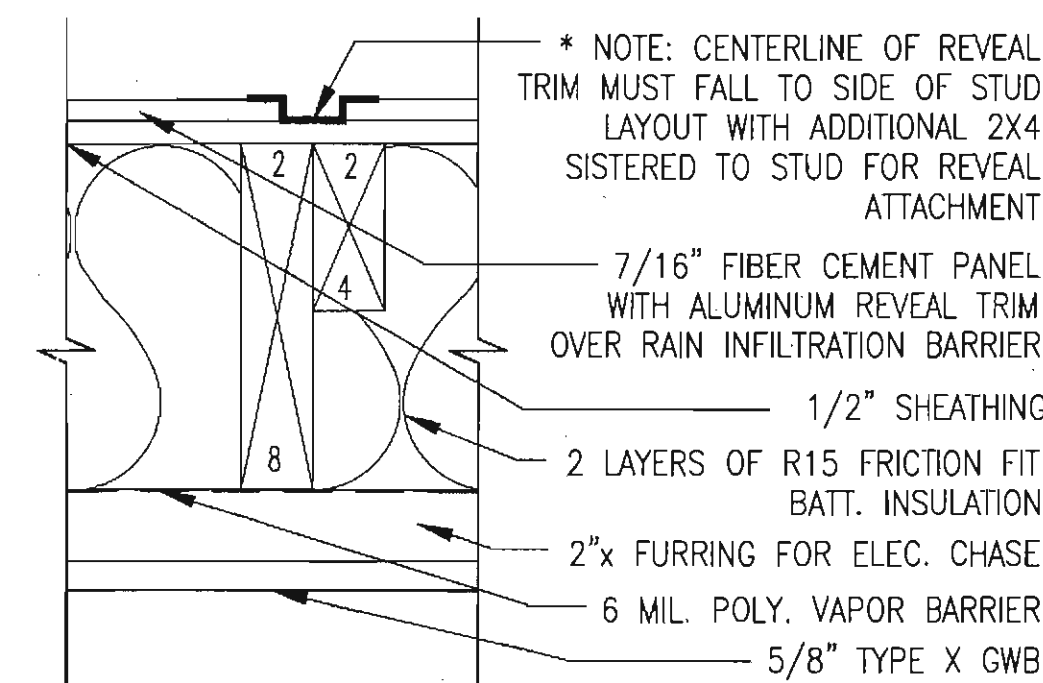
6 Typical Hood Detail
A501 GRAPHIC: 1" 3" 6"



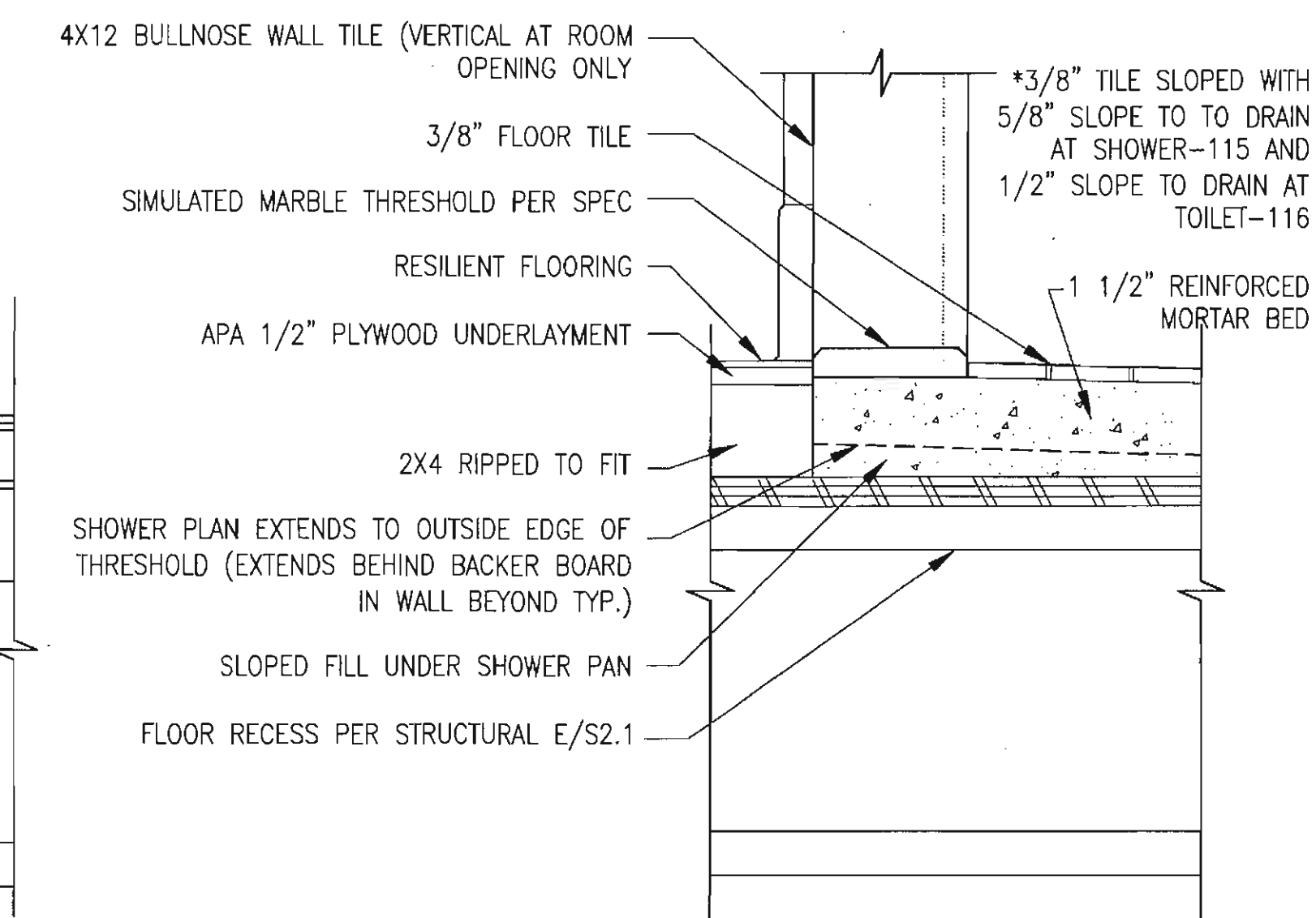
10 Floor Tile Detail
A501 GRAPHIC: 1" 3" 6"



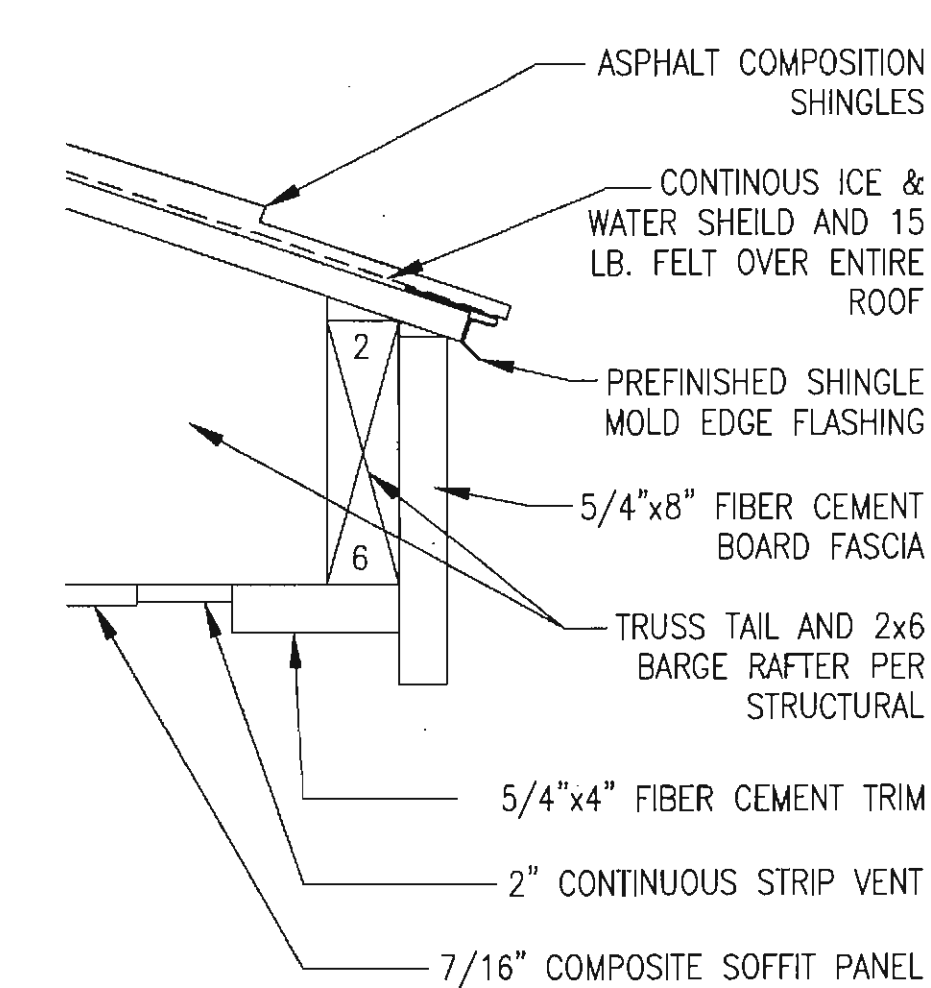
3 Rake Fascia Detail
A501 GRAPHIC: 1" 3" 6"



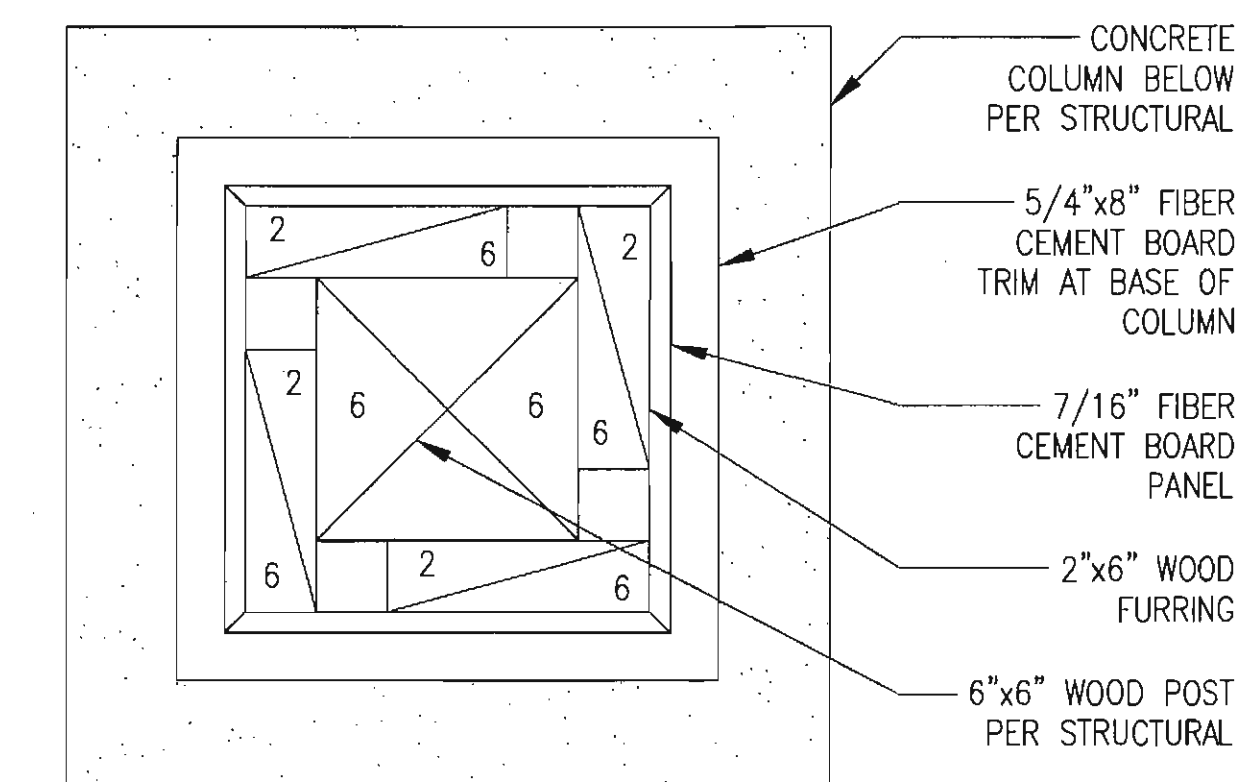
7 Siding Detail
A501 GRAPHIC: 1" 3" 6"



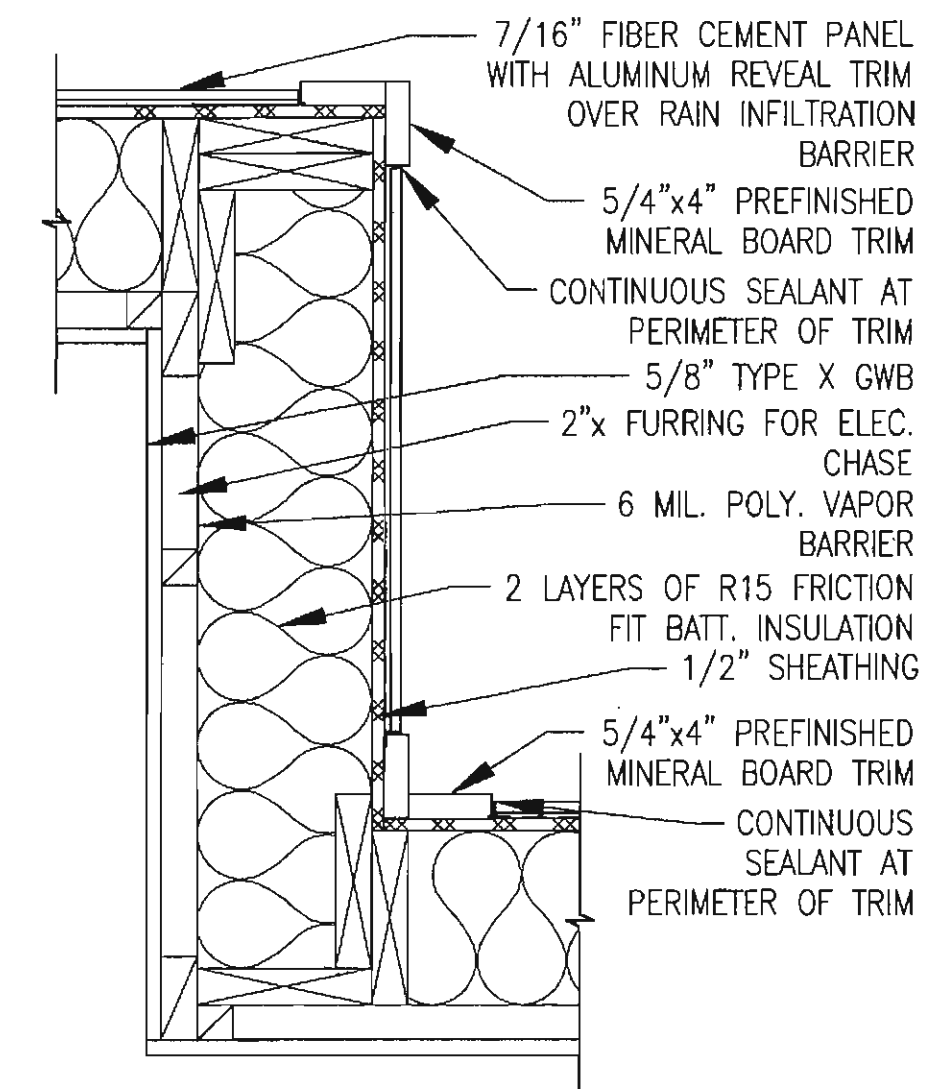
11 Floor Tile Detail
A501 GRAPHIC: 1" 3" 6"



4 Eave Fascia Detail
A501 GRAPHIC: 1" 3" 6"



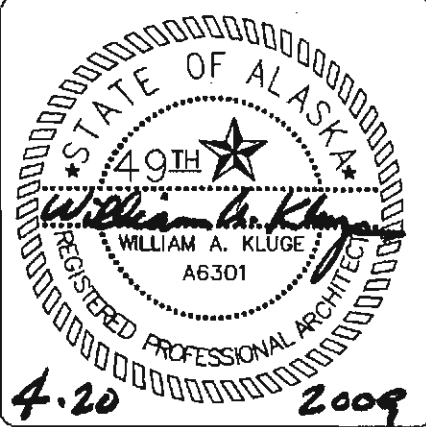
8 Column Detail
A501 GRAPHIC: 1" 3" 6"



12 Siding Detail
A501 GRAPHIC: 1" 2" 6" 12"



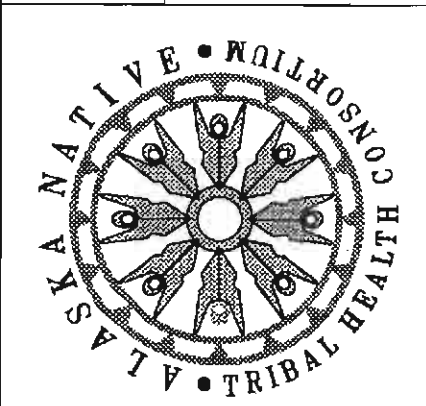
INIT.	
REVISIONS	
DATE	



ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING

1901 SOUTH BRAGAW STREET, SUITE 200 ANCHORAGE, ALASKA, 99508-3440 (907) 729-3600



McGRATH SUB-REGIONAL HEALTH CENTER DETAILS

DATE: 4/20/2009
SCALE: AS NOTED
DRAWN BY: CFP

FILE NAME: PROJECT NO: 0198
PROJ ARCH: BK

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #:12
(PROJECT)

Floor coverings
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: There is no call out for self cove base in any of the vinyl areas only rubber base. Please confirm this is correct. Also F1 floor assembly shows ½" plywood underlayment, detail says typ., is this throughout or only under vinyl? No spec. on material

(DATE) (REQUESTED BY)

RESPONSE:
Cove base is not required on this project. Install ½" plywood underlayment at all vinyl areas. Provide a spec. sheet to architect for suggested underlayment material.

RESPONSE NEEDED BY: (ARCHITECT / ENGINEER SIGNATURE)

7.30.2010
(DATE)

ACTION REQUIRED BY:
RESOLUTION:

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #:09
(PROJECT)

S. 3.0 July 8, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: There is a note in the upper left hand corner of sheet S 3.0 " 2 x 8 wall stud at 24" on center Typ. Line up with truss above" wall type 1 A -601 calls for the exterior walls @ 16" O.C.

Are these walls to be 16" or 24" O.C.? or is it the intent to frame the walls 16" O.C. and add a stud under every other truss?

Greg Waisanen
(DATE) (REQUESTED BY)

RESPONSE:

The walls referenced above shall be at 24" O.C. per structural. Please change wall type 1 A-601 to 24" O.C. in lieu of 16" O.C.

Regarding insulation already on-site, two pieces of insulation may be used as long as they are cut true and fit tight within each stud bay.

RESPONSE NEEDED BY: 7-8-10 (ARCHITECT / ENGINEER SIGNATURE)

7.8.2010
(DATE)

ACTION REQUIRED BY:
RESOLUTION:

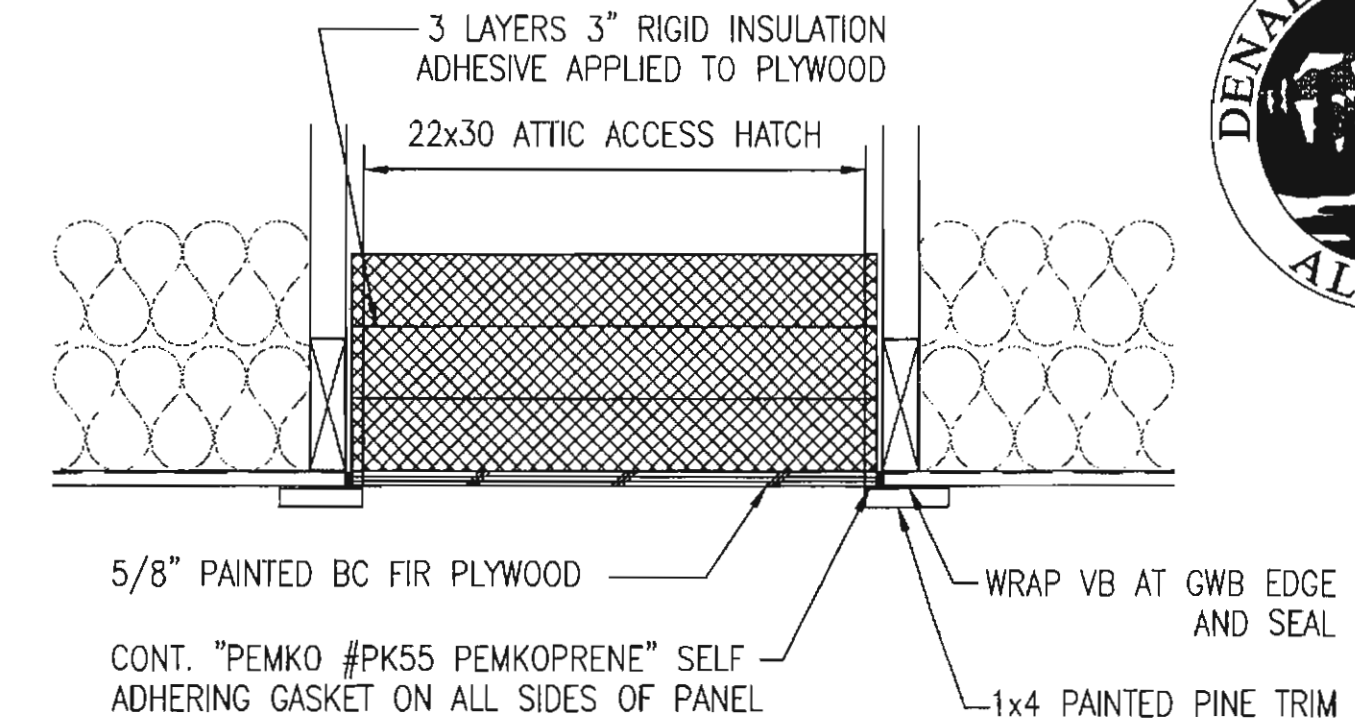
Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

1 ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOORING	BASE	WALLS				CEILING	CEILING HEIGHT	NOTE	FLOORING
				NORTH	EAST	SOUTH	WEST				
100	ENTRY	F1.1	B1	W1.2	W1.2	W1.2	W1.2	C1	8'-0"		F1.1 RESILIENT FLOORING
101	TELE/ELECTRICAL	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C1	8'-0"		F1.2 RESILIENT FLOORING
102	H.C. TOILET	F1.1	B2	W1.2/W3	W1.2/W3	W1.2/W3	W1.2/W3	C1	8'-0"		F2 CARPET
103	H.C. TOILET	F1.1	B2	W1.2/W3	W1.2/W3	W1.2/W3	W1.2/W3	C1	8'-0"		F3 SEALED CONCRETE
104	WAITING	F1.1/F1.2	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C2	8'-0"	1	F4 3X3 TILE
105	HEALTH EDUCATOR	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		BASE
106	BH CLINICIAN	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		B1 4" RESILIENT BASE
107	BH CLINICIAN	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		B2 6" BEVELED P-LAM
108	BH CLINICIAN	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		B3 6" STAINLESS STEEL BASE
109	BH CONFERENCE	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		WALLS
110	CORRIDOR	F1.1	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C2	8'-0"		W1.1 PAINT/IPS 10
111	MECHANICAL	F3	B1	W1.1	W1.1	W1.1	W1.1	C1	8'-0"		W1.2 PAINT/IPS 20
112	LAUNDRY	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		W1.3 PAINT/IPS 30
113	CORRIDOR	F1.1	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C2	8'-0"		W2 RIGID VINYL SHEET TO HEIGHT OF WALL GUARD W/ PAINT ABOVE
114	TRUAMA EXAM	F1.1	B1/B3	W1.1	W5	W1.1	W5	C2	8'-0"	2	W3 P-LAM WAINSCOT 48" A.F.F. WITH METAL CAP & CORNER TRIM
115	SHOWER	F4	-	W4	W4	W4	W4	C1	8'-0"	2	W4 WALL TILE, FLOOR TO CEILING
116	H.C. TOILET	F4	-	W4	W4	W4	W4	C1	8'-0"		W5 W1.1 WITH B3
117	PHARMACY	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C1	8'-0"		CEILING
118	CLEAN/DIRTY	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C1	8'-0"		C1 GWB/IPS 10
119	EXAM	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		C2 2X4 SUSPENDED ACOUSTIC TILE
120	EXAM	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		NOTES
121	EXAM	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		1. SEE A-102 FOR FLOOR PATTERN
122	SPECIALTY PROCEDURE	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		2. SEE A-402 FOR WALL TILE PATTERN
123	FILING/STORAGE	F2	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
124	BILLING	F2	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
125	RECORDS	F2	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
126	RECEPTION	F2	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
127	WAITING	F1.1/F1.2	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C2	8'-0"	1	
128	ENTRY	F1.1	B1	W1.2	W1.2	W1.2	W1.2	C1	8'-0"		
129	MORGUE/EMS STORAGE	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C1	8'-0"		
130	PATIENT HOLDING/SLEEPING	F2	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
131	H.C. TOILET	F1.1	B2	W1.2/W3	W1.2/W3	W1.2/W3	W1.2/W3	C1	8'-0"		
132	LAB	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
133	DENTAL	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
134	ADMIN	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		
135	OFFICE	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		
136	OFFICE	F2	B1	W1.3	W1.3	W1.3	W1.3	C2	8'-0"		
137	CORRIDOR	F1.1	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C2	8'-0"		
138	H.C. TOILET	F1.1	B2	W1.2/W3	W1.2/W3	W1.2/W3	W1.2/W3	C1	8'-0"		
139	STAFF	F1.1	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
140	CORRIDOR	F1.1	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C2	8'-0"		
141	JANITOR	F1.1	B1	W1.1/W2	W1.1/W2	W1.1/W2	W1.1/W2	C1	10'-1/2"		
142	CONFERENCE	F2	B1	W1.1	W1.1	W1.1	W1.1	C2	8'-0"		
143	STORAGE	F2	B1	W1.3	W1.3	W1.3	W1.3	C1	8'-0"		

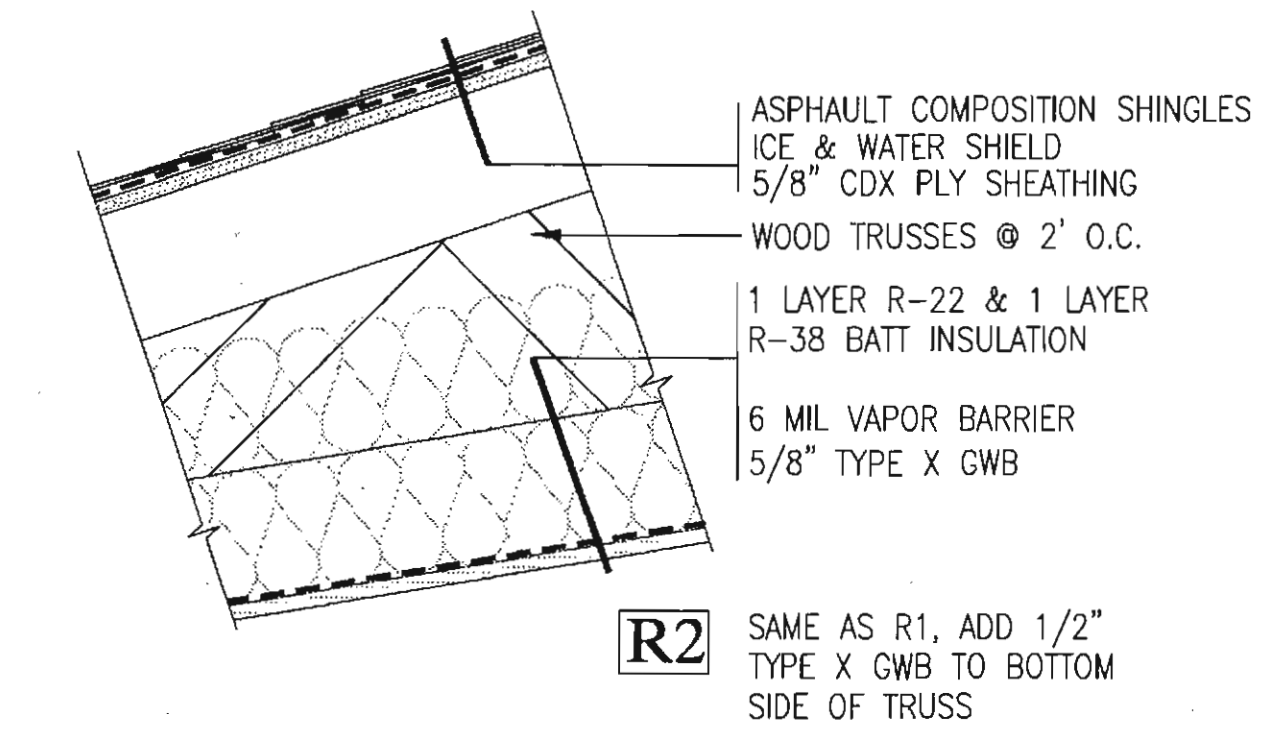
GENERAL FINISH NOTES

- THE CONTRACTOR SHALL PROPERLY PREPARE THE SURFACES PER FINISH MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF FINISH. ALL FINISHES AND ADJOINING SURFACES SHALL REMAIN FREE OF GLUE, PLASTER AND PAINT EXCESS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN TRADES TO INSURE PROPER INSTALLATION OF FINISH FOR COLORS AND QUALITIES.
- PREPARE FLOOR AREAS AS REQUIRED TO RECEIVE FLOOR FINISHES, INCLUDING FLASH PATCHING REQUIRED TO LEVEL TO 1/4" IN 20' AND SMOOTH FLOOR.
- ANY CHANGE IN FLOOR FINISH SHALL OCCUR AT CENTERLINE OF DOOR OR CASED OPENING UNLESS OTHERWISE NOTED. E INTERIOR FINISHES, IN MEANS OF EGRESS, SHALL BE CLASS "A" FIRE RATED.
- PROVIDE ACOUSTICAL SEALANT AT ALL EDGES AND PENETRATIONS THROUGH ACOUSTICAL WALLS.
- ALL WALLS ARE TO EXTEND TO STRUCTURE ABOVE AS APPROPRIATE. REFERENCE WALL SECTIONS SHEETS A4.3 AND A4.4. 3. ALL DIMENSIONS ARE TO FACE OF FRAMING TYPICAL UNLESS OTHERWISE NOTED.
- REFER TO SHEET F1.1 FOR MODULAR CABINETS/FURNISHINGS PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOM FINISHES, PLUMBING AND ELECTRICAL ITEMS IMPACTING SAID ROOM FURNISHINGS.
- ALL FLOOR BASE SHALL BE SEALED TO FLOORING WITH A FINE BEAD OF SEALANT AT THE BOTTOM EDGE OF THE BASE.



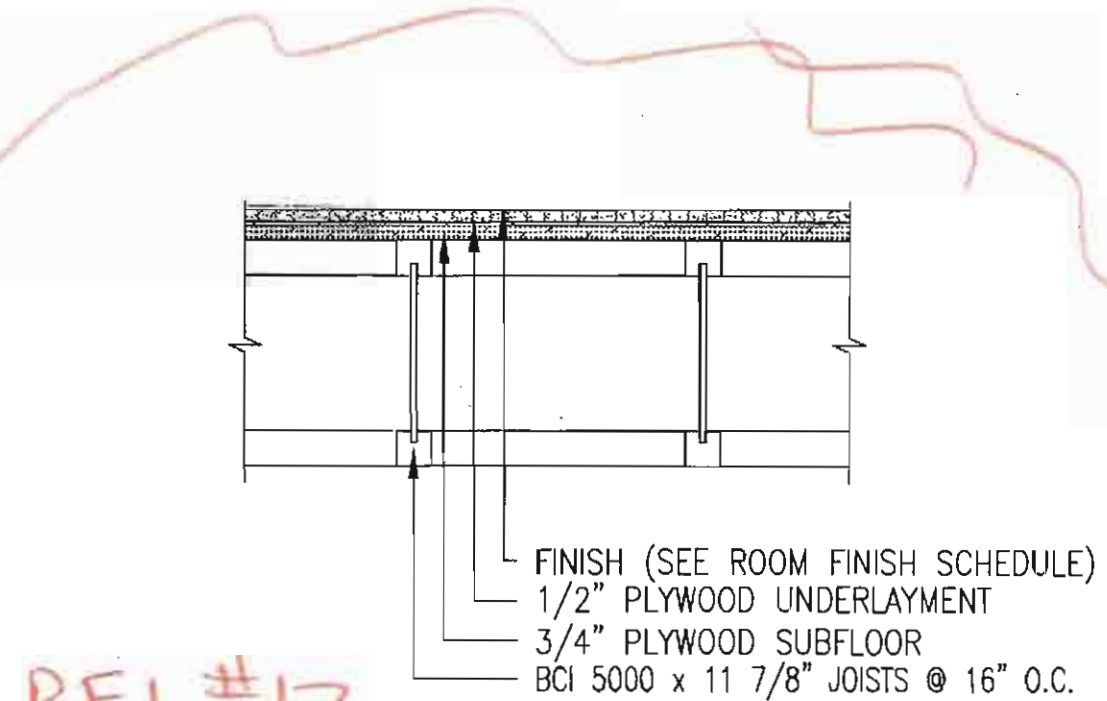
2 ATTIC ACCESS HATCH

GRAPHIC: 0 2" 4" 8" 16"



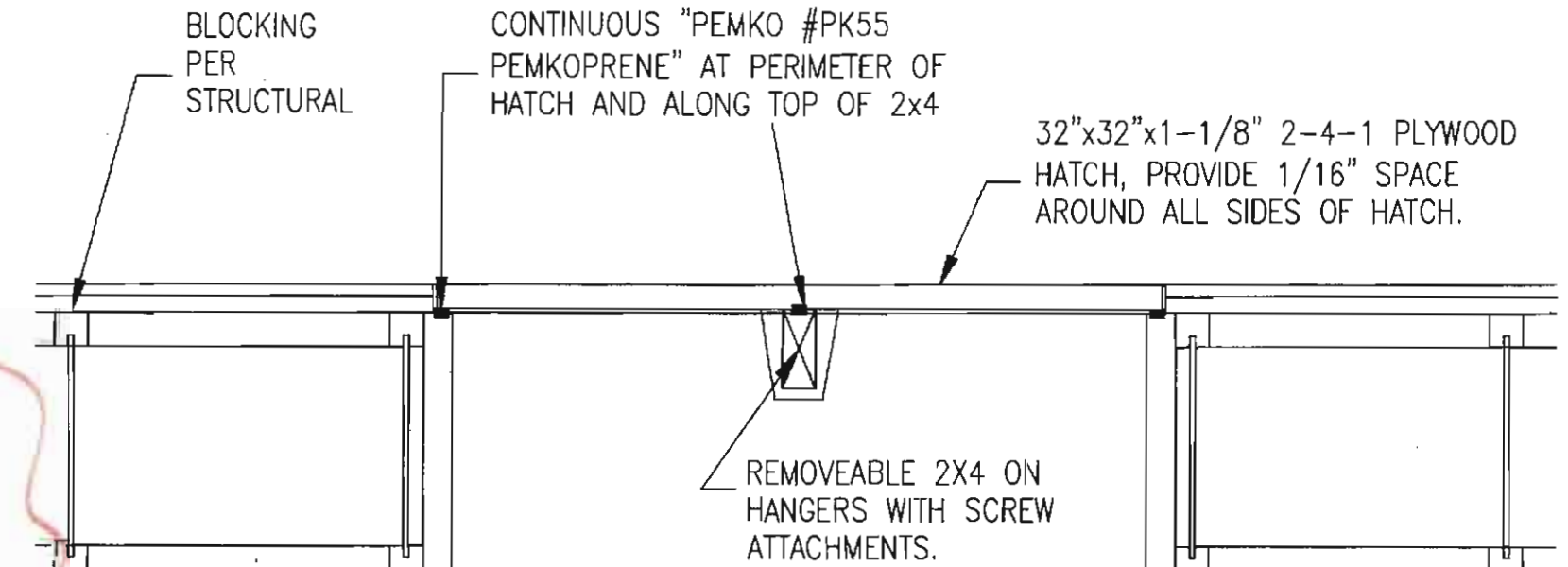
3 R1 TYP. ROOF ASSEMBLY

GRAPHIC: 0 2" 4" 8" 16"



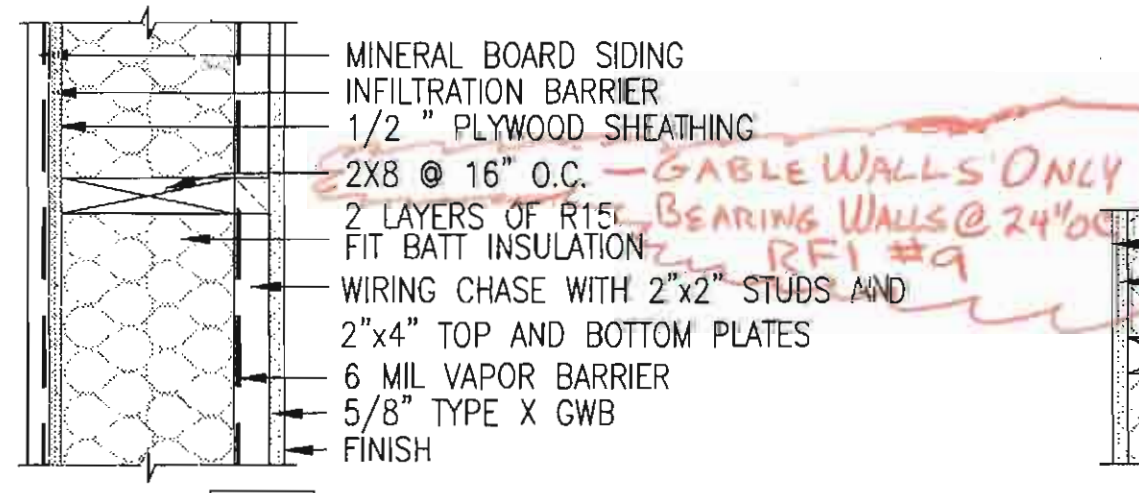
4 F1 TYP. FLOOR ASSEMBLY

GRAPHIC: 0 2" 4" 8" 16"



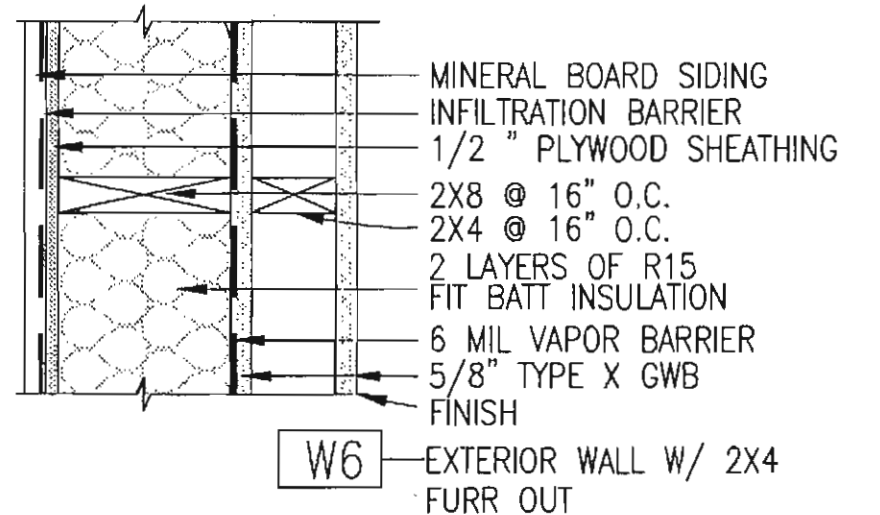
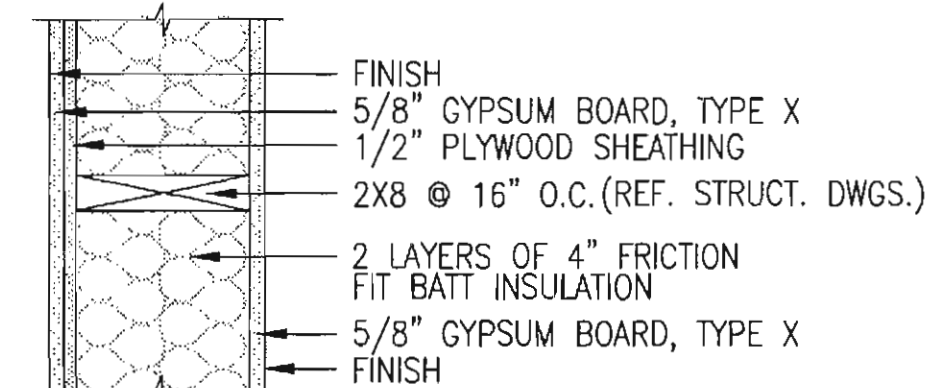
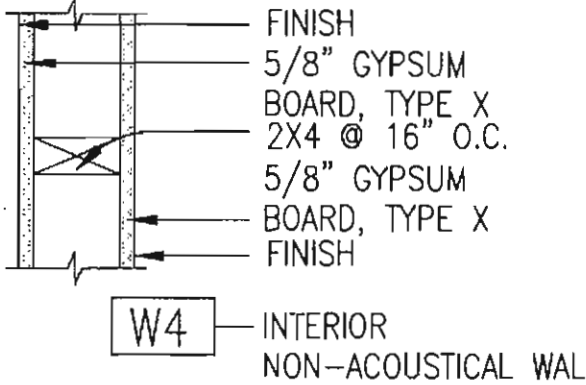
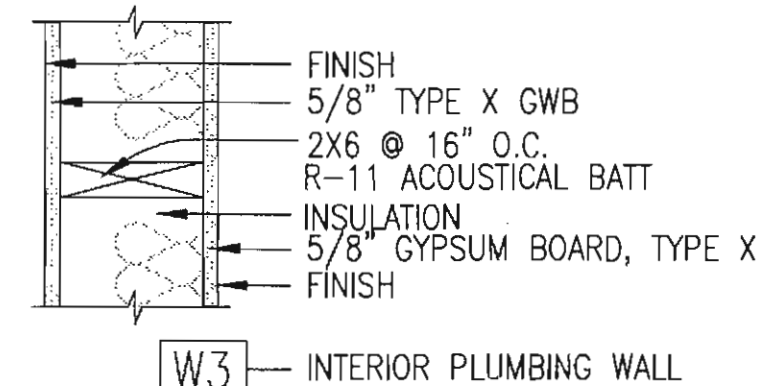
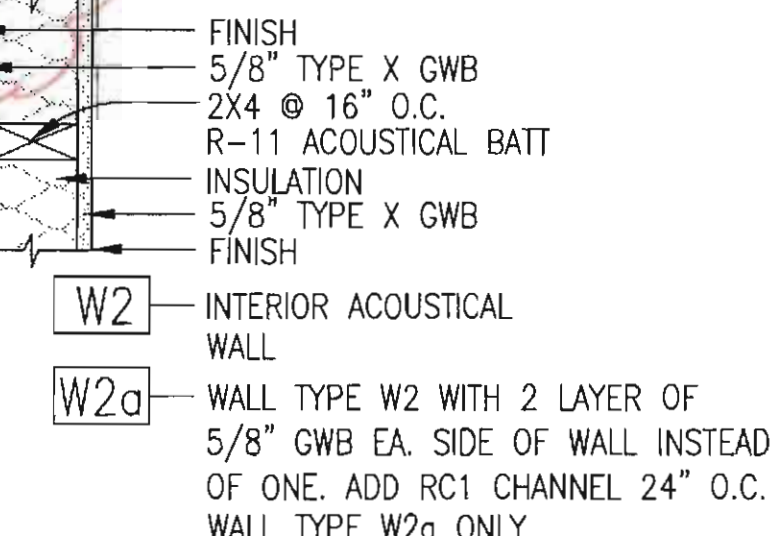
5 CRAWL SPACE ACCESS HATCH

GRAPHIC: NOT TO SCALE



6 WALL ASSEMBLIES

GRAPHIC: 0 2" 4" 8" 16"



NOTE:
1. ALL WALLS SHALL BE W2 TYPICAL UNLESS OTHERWISE NOTED PER A-102.

INITIALS

REVISIONS

DATE

STATE OF ALASKA

REGISTERED PROFESSIONAL ARCHITECT

WILLIAM A. KLUGE

A6301

4-20

2009

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING

1901 SOUTH BRAGAW STREET, SUITE 200

ANCHORAGE, ALASKA, 99508-3440

(907) 729-3600

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

McGRATH SUB-REGIONAL HEALTH CENTER

FINISH SCHEDULE AND ASSEMBLIES

FILE NAME:

PROJECT NO: 0188

PROJ ARCH: BK

DATE: 4/20/2009

SCALE: AS NOTED

DRAWN BY: CFP

SHEET A-601

12 OF 13A

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic PROJECT RFI #: 6

13/ A403 – A 602 window 4 REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: window type 4 on A 602 directs us to see detail 13 on A403. These do not match as one shows a transom and the other does not as well as one is sliding and the other swings. Please clarify

Greg Waisanen (REQUESTED BY)

(DATE)
RESPONSE:
Please see the description below WINDOW TYPE 4 on A-602, "Double Slider" this is a sliding transaction window. Please delete the transom in the window.

RESPONSE NEEDED BY: (ARCHITECT / ENGINEER SIGNATURE)

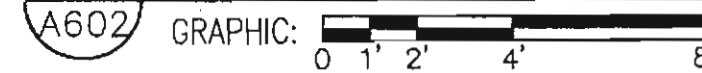
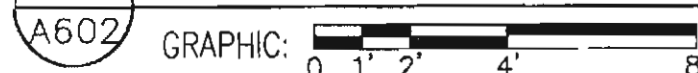
7.2.2010 (DATE)

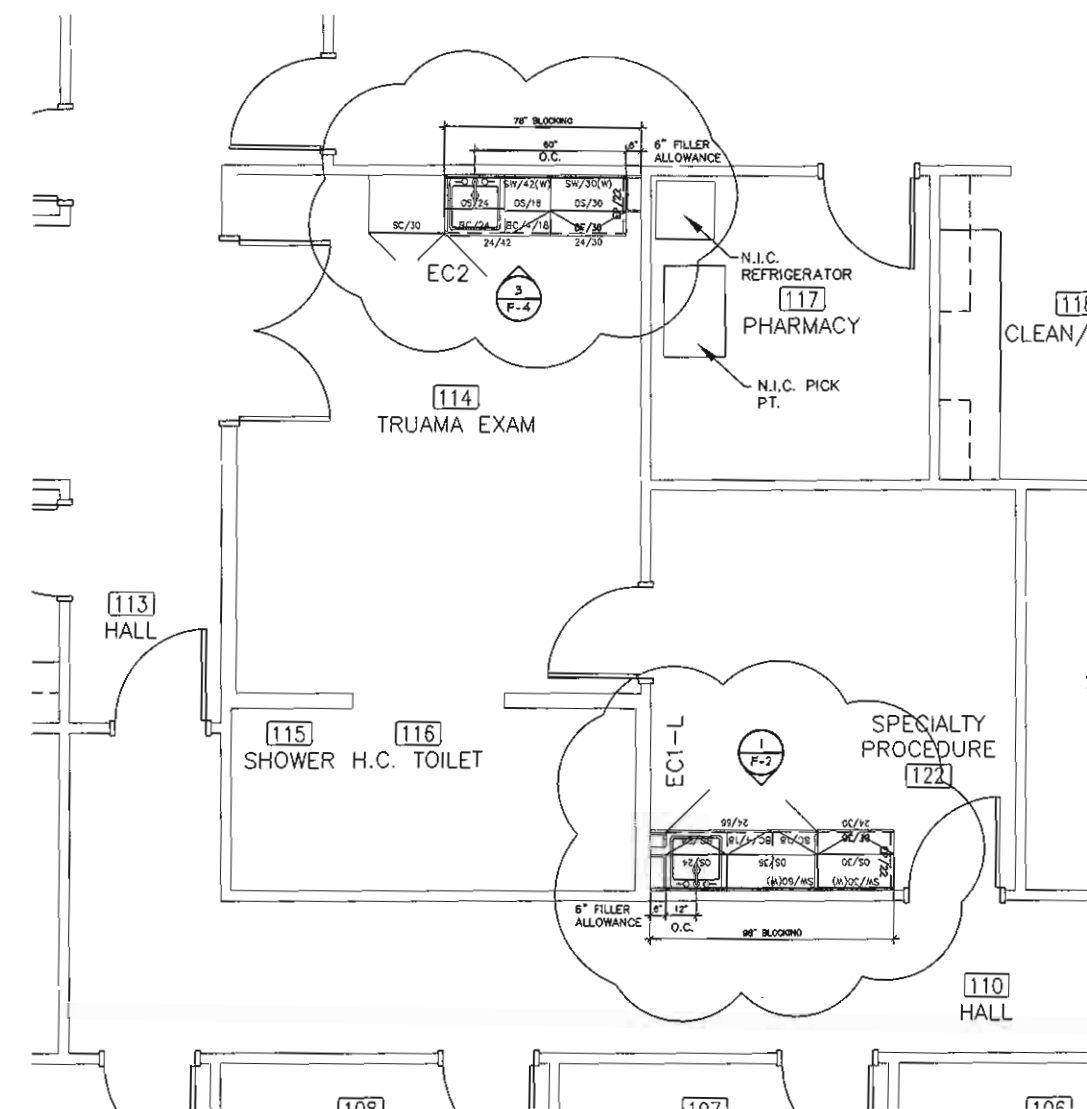
ACTION REQUIRED BY: RESOLUTION:

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

DOOR NUMBER	ROOM NAME & NUMBER	DOOR							FRAME		HARDWARE GROUP	RATING	THRESHOLD	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
		WIDTH	HEIGHT	TYPE	THICK.	MAT.	FINISH	MAT.	FINISH								
100A	ENTRY-100	3'-0"	7'-0"	A	1 3/4"	INS ST	EPS 30	INS ST	EPS 30	4	NR	YES	1/A501	5/A501	9/A501		
100B	ENTRY-100	3'-0"	7'-0"	A	1 3/4"	INS ST	IPS 40	INS ST	IPS 40	2	20 MIN	YES	1/A501	5/A501	9/A501		
101	TELE/ELECTRICAL-101	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	NR	----	1/A602	3/A602	----		
102	H.C. TOILET-102	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	3	20 MIN	----	1/A602	3/A602	----		
103	H.C. TOILET-103	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	3	20 MIN	----	1/A602	3/A602	----		
105	HEALTH EDUC.-105	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
106	BH CLINICIAN-106	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
107	BH CLINICIAN-107	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
108	BH CLINICIAN-108	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
109	BH CLINICIAN-109	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
111	MECHANICAL-111	3'-0"	7'-0"	B	1 3/4"	INS ST	EPS 30	INS ST	EPS 30	7	NR	YES	1/A501	5/A501	9/A501		
112	LAUNDRY-112	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
113	HALL-113	3'-0"	7'-0"	E	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	NR	----	1/A602	3/A602	----		
114	TRUAMA EXAM-114	4'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	6	20 MIN	----	1/A602	3/A602	----		
116	H.C. TOILET-116	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	3	NR	----	1/A602	3/A602	----		
117	PHARMACY-117	3'-0"	7'-0"	E	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
119	EXAM-119	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
120	EXAM-120	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
121	EXAM-121	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
122A	SPEC. PROCD.-122	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
122B	SPEC. PROCD.-122	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
123	FILING/STR.-123	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
124	BILLING-124	3'-0"	7'-0"	E	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
125	RECORDS-125	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
126	RECEPTION-126	3'-0"	7'-0"	E	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	NR	----	1/A602	3/A602	----		
128A	ENTRY-128	4'-0"	7'-0"	A	1 3/4"	INS ST	EPS 30	INS ST	EPS 30	4	NR	YES	1/A501	5/A501	9/A501		
128B	ENTRY-128	4'-0"	7'-0"	A	1 3/4"	INS ST	IPS 40	INS ST	IPS 40	2	NR	YES	1/A501	5/A501	9/A501		
129	MORGUE/EMS-129	4'-0"	7'-0"	B	1 3/4"	SCW	IPS 40	H.M.	IPS 40	2	NR	----	1/A602	3/A602	----		
130	PATIENT HOLD.-130	3'-0"	7'-0"	B	1 3/8"	SCW	FACTORY	H.M.	IPS 40	1	20 MIN	----	1/A602	3/A602	----		
131	H.C. BATH-131	3'-0"															

1. DOOR NUMBERS 104, 110, 115, 118, 127 & 140 ARE NOT USED.
2. ALL RATED DOORS REQUIRE RATED DOOR/FRAME ASSEMBLY.
3. DOORS 113 & 137 SHALL BE LOCKABLE FROM 127 AND ALWAYS UNLOCKED FROM HALL-110 & HALL-137.



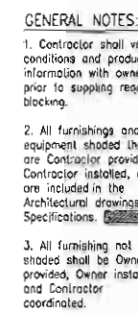


CAPITAL OFFICE SYSTEMS
1workplace design, llc
 1120 East 35th Avenue Anchorage, Alaska 99508
 Phone (907) 777-1500 Fax (907) 777-1515

A.N.T.H.C.
Sub-Regional Health Center
McGrath, Alaska
E-mail: anthc@alaska.net

JOB NO: 20070240
DRAWN: E2
CHECKED: COS
DATE: 03.01.2009
REVISIONS:
01.01.2009
08.27.2009

SHEET NO.
F-1A



FURNISHING PLAN

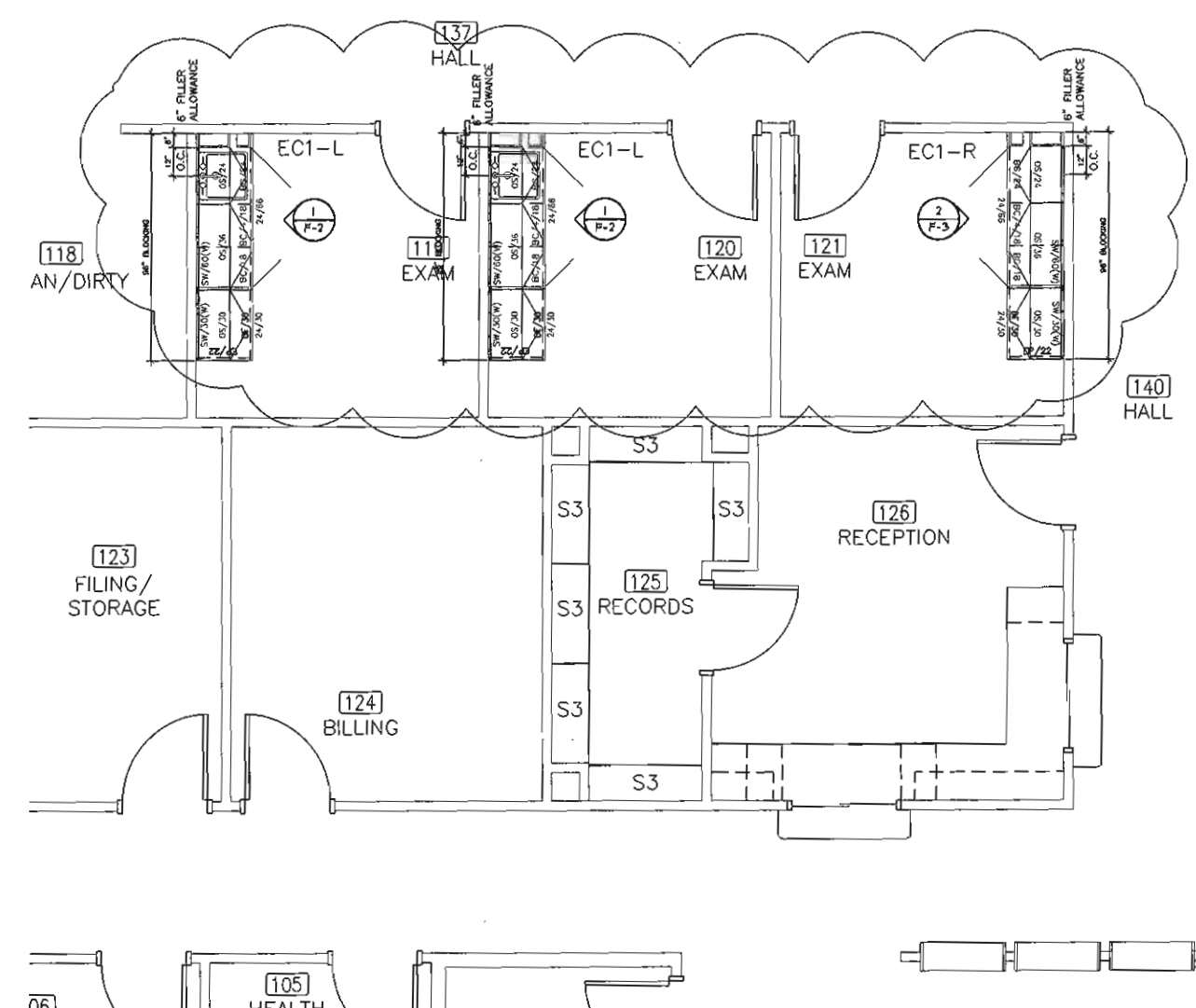
GRAPHIC SCALE: 1/4" = 1'-0"

CAPITAL OFFICE SYSTEMS
1workplace design, llc
 1120 Base 35th Avenue Anchorage, Alaska 99508
 Phone (907) 777-1500 Fax (907) 777-1515

A.N.T.H.C.
Sub-Regional Health Center
Furniture Plan

JOHN: 200511	
DRAWN: 1	
CHECKED: C	
DATE: 01.29.2	
REVISIONS:	
	01.18.2
	08.27.2

INSTRUMENT NO.	F-1
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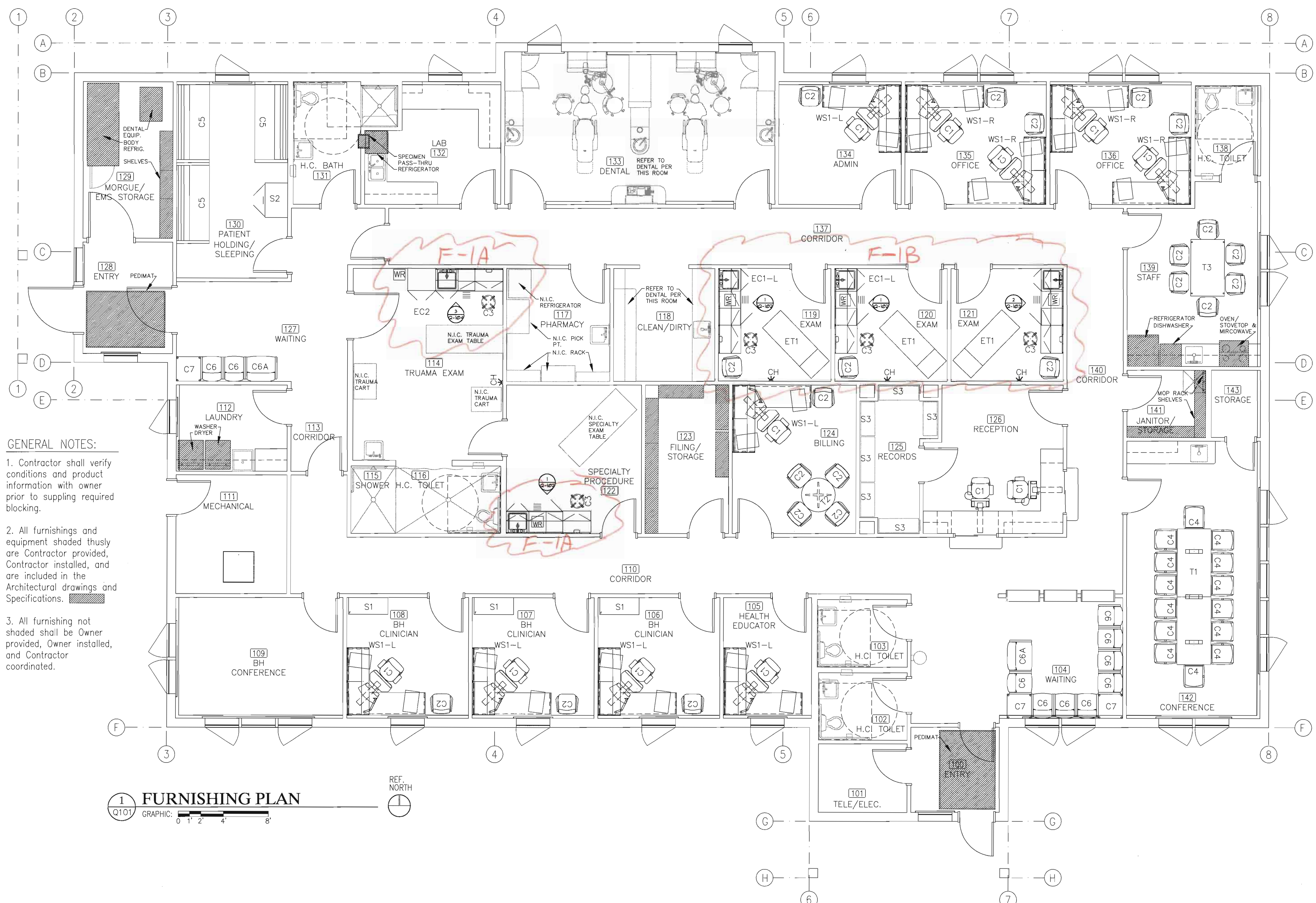


CAPITAL OFFICE SYSTEMS
lworkplace design, llc
 1120 East 35th Avenue Anchorage, Alaska 99508
 Phone (907) 777-1500 Fax (907) 777-1515

AN.T.H.C.
Sub-Regional Health Center
McGrath, Alaska
Evanston, Ill.

JOB NO: 2009045/E
DRAWN: 11/3
CHECKED: COS
DATE: 05.30.2009
REVISIONS:
05.18.2009
06.22.2010

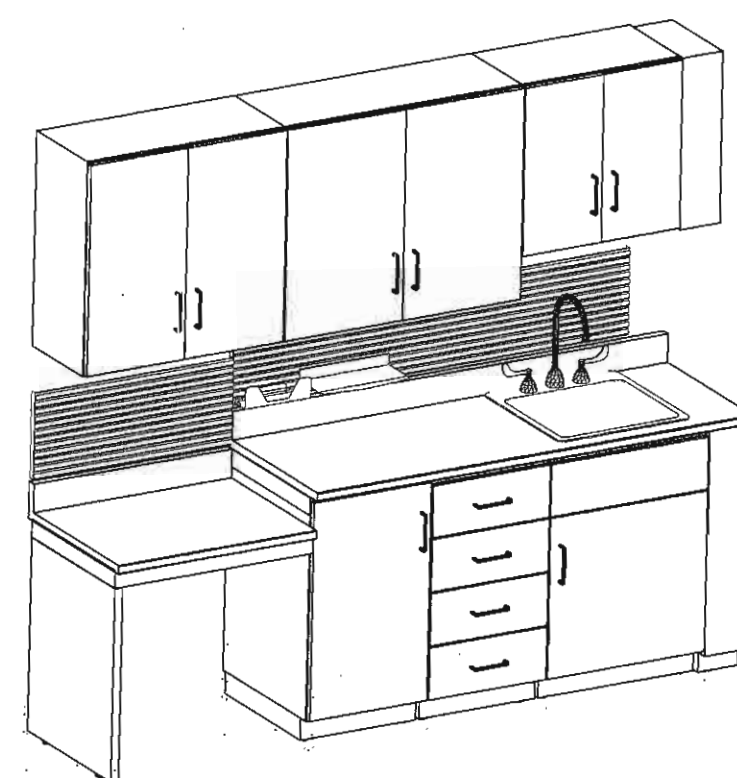
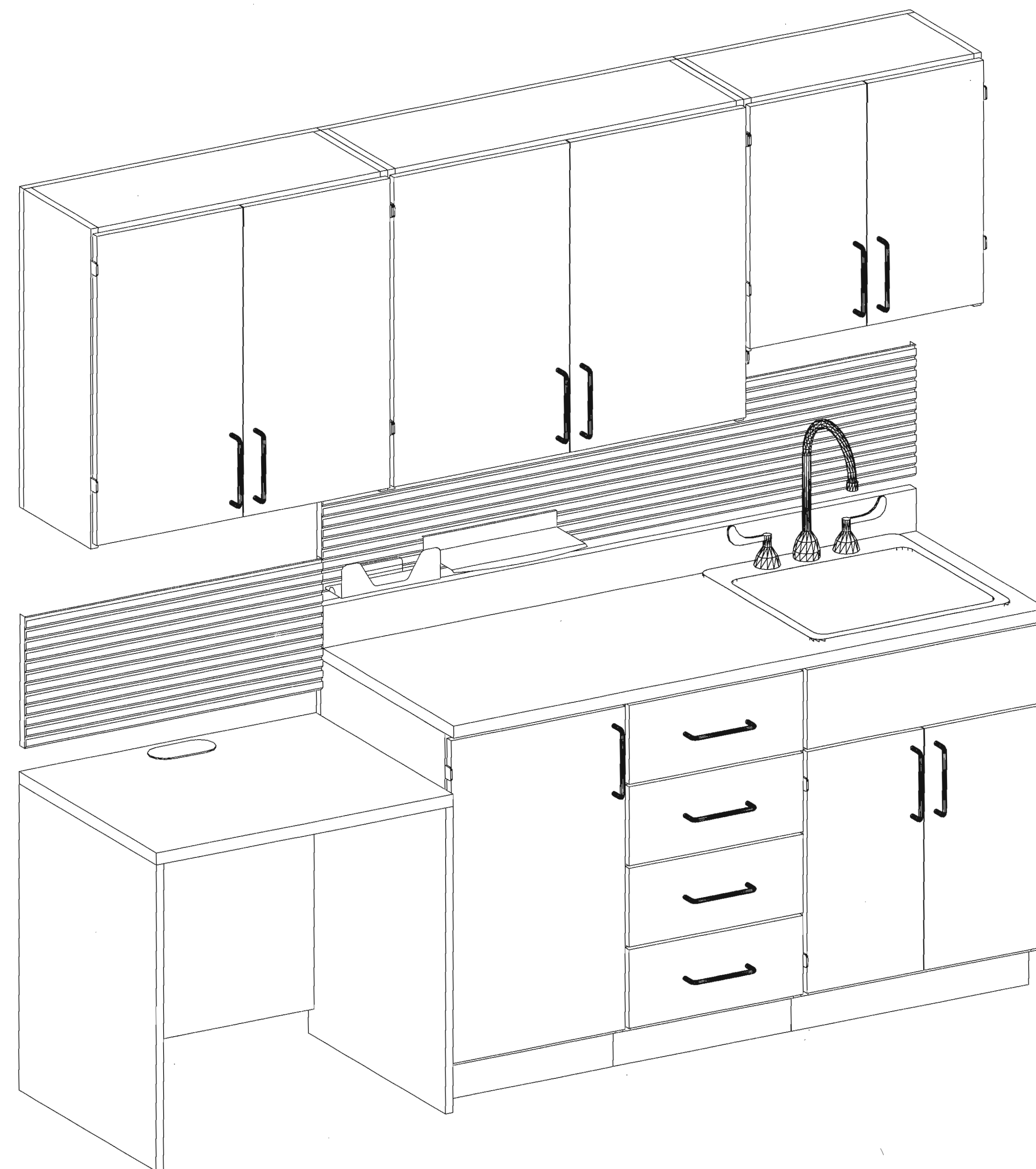
SHEET NO:
F-1B



- GENERAL NOTES:**
1. Contractor shall verify conditions and product information with owner prior to supplying required blocking.
 2. All furnishings and equipment shaded thusly are Contractor provided, Contractor installed, and are included in the Architectural drawings and Specifications.
 3. All furnishing not shaded shall be Owner provided, Owner installed, and Contractor coordinated.

1 FURNISHING PLAN
Q101 GRAPHIC: 0 1' 2' 4' 8'

INIT.	
REVISIONS	
DATE	
	
ALASKA NATIVE TRIBAL HEALTH CONSORTIUM	
DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING 1901 SOUTH BRAGAW STREET, SUITE 200 ANCHORAGE, ALASKA, 99508-3440 (907) 729-3600	
	
McGRATH SUB-REGIONAL HEALTH CENTER FURNISHING PLAN	
FILE NAME:	PROJECT NO: 0198
DATE: 4/20/2009	PROJ ARCH: BK
SCALE: AS NOTED	
DRAWN BY:	
SHEET Q-101	
1 OF 60	



PLAN - EC1-L

3D VIEW - EC1-L

PLUMBING SUB-CONTRACTOR RESPONSIBLE FOR PURCHASE
AND INSTALLATION OF SINK.
COS WILL BE RESPONSIBLE FOR FIELD CUT/DRILLING OF LAMINATE
WORKSURFACE FOR PLACEMENT OF SINKS AND FAUCETS.
COVE MOLDING NOT PROVIDE BY COS

CAPITAL OFFICE SYSTEMS
1workplace design, llc
1120 East 35th Avenue Anchorage, Alaska 99508
Phone (907) 777-1500 Fax (907) 777-1515

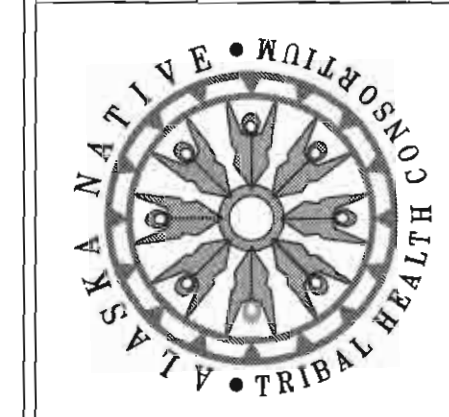
A.N.T.H.C.
Sub-Regional Health Center
McGrath, Alaska
Furniture Plan

JOB NO. 2009050301
DRAWN: JJJ
CHECKED: CCB
DATE: 03.20.2009
REVISED: 03.18.2009
08.27.2009

STATE NO.
F-2

[illegible]

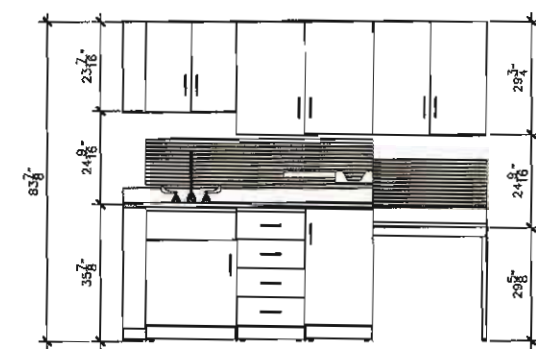

ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM
DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



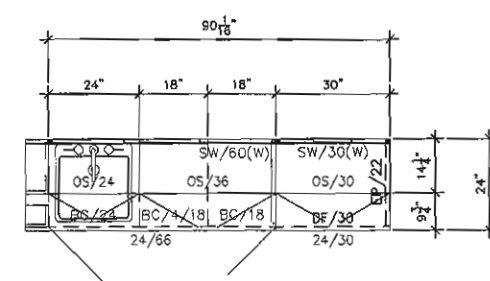
2009	FILE NAME:
UNITED	PROJECT NO: 0198
	PROJ. ARCH. BK

FILE NAME:
PROJECT NO: 0198
PROJ ARCH. BK

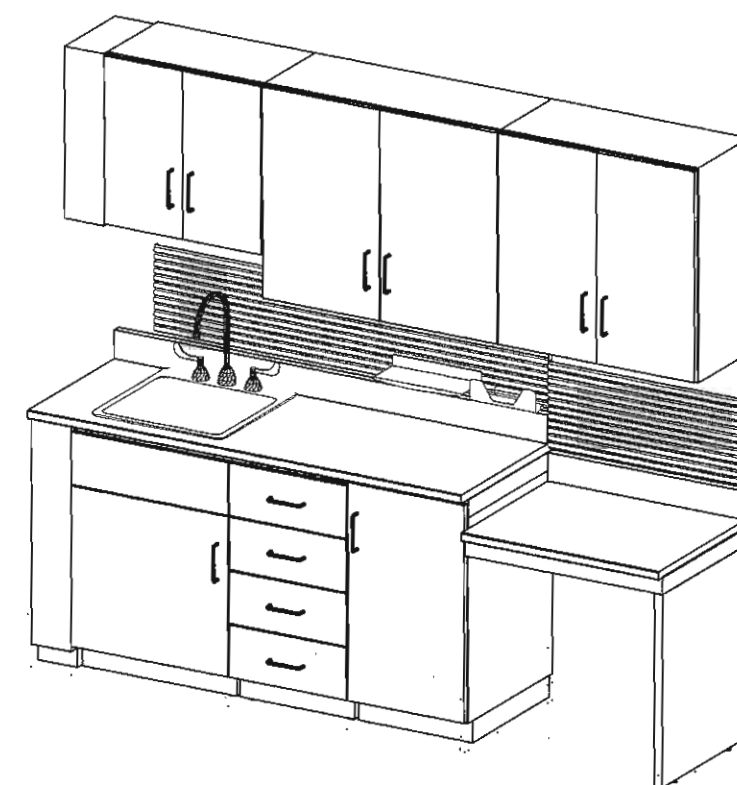
SHEET
Q-102
2 OF 6Q



2 ELEVATION - EC1-R
F-1 SCALE: 1/8"=1'-0"




2 PLAN - EC1-R
F-1 SCALE: 3/8"=1'-0"



PLUMBING SUB-CONTRACTOR RESPONSIBLE FOR PURCHASE
AND INSTALLATION OF SINK.
COS WILL BE RESPONSIBLE FOR FIELD CUT/DRILLING OF LAMINATE
WORKSURFACE FOR PLACEMENT OF SINKS AND FAUCETS.
COVE MOLDING NOT PROVIDE BY COS.

3D VIEW - EC1-R



3D VIEW - EC1-R

SCALE: N.T.S.

Σεε F-3



ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



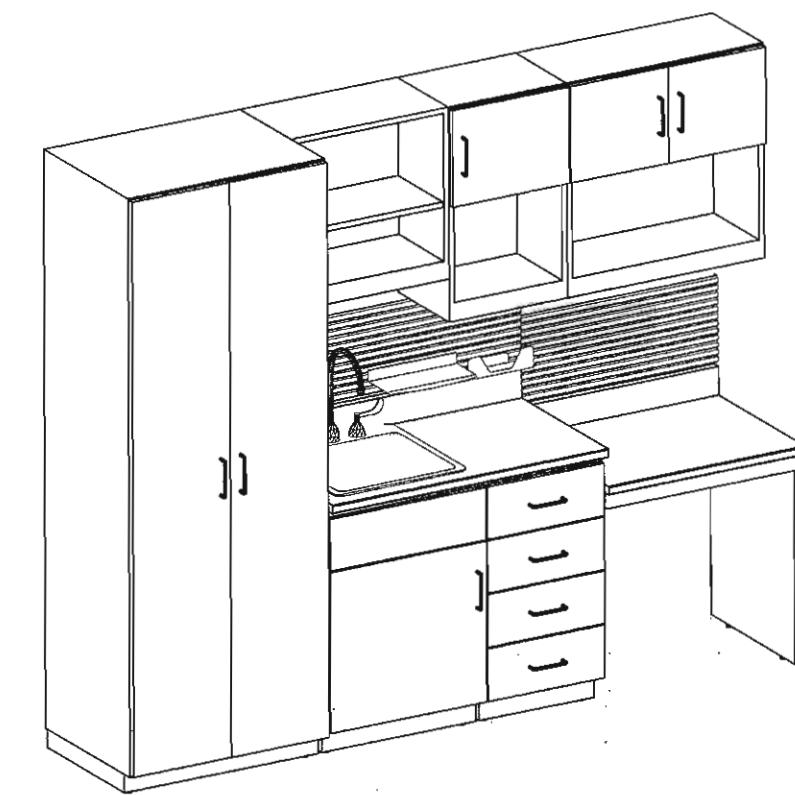
McGRATH SUB--REGIONAL
HEALTH CENTER
FURNISHING PLAN

FILE NAME: _____
PROJECT NO: 0198
PROJ ARCH. BK

DATE: 3/25/2009
SCALE: AS NOTED
DRAWN BY:

SHEET
Q-103

3 OF 6Q



3D VIEW - EC2



CAPITAL OFFICE SYSTEMS
1workplace design, llc
 1120 East 35th Avenue Anchorage, Alaska 99508
 Phone: (907) 777-1500 Fax: (907) 777-1515

A.N.T.H.C.
Sub-Regional Health Center
McGrath, Alaska
Eumainez, Dian

JOB NO. 200050474
DRAWN: 12
CHECKED: CO
DATE: 03.26.2004
REVISIONS:
03.16.2004
05.27.2004

F-4

The logo of the Denali Commission Alaska is a circular emblem. It features a stylized landscape with a mountain peak, a river, and a forest. The words "DENALI COMMISSION" are written in a circle around the top, and "ALASKA" is written at the bottom.

ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



McGRATH SUB-REGIONAL
HEALTH CENTER
FURNISHING PLAN

DATE: 3/25/2009
SCALE: AS NOTED
DRAWN BY: _____

FILE NAME: _____
PROJECT NO: 0198
PROJ ARCH: BK

SHEET
Q-104

4 OF 6Q



WS1
Q-107

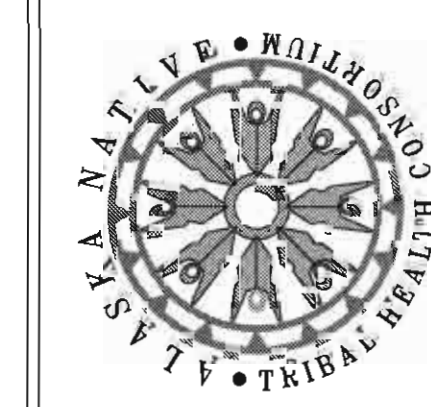
3D VIEW - OFFICE WORKSTATION

SCALE: N.T.S.

[illegible]

ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING
901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



McGRATH SUB-REGIONAL
HEALTH CENTER

DATE: 3/25/2009
SCALE: AS NOTED
DRAWN BY:

SHEET
Q-105

5 OF 6Q

C1	'LEAP' TASK CHAIR
C2	'PLAYER' GUEST CHAIR
C3	'VERGE' STOOL
C4	'REINHARD' CONFERENCE CHAIR
C5	'SIESTA' SLEEPER
C6	OUTLOOK 'HAWTHORNE' SINGLE SEAT, ARM, CHAIR
C6A	OUTLOOK 'HAWTHORNE' BARIATRIC, SINGLE SEAT CHAIR
C7	OUTLOOK 'HAWTHORNE' TABLE, WD EDGE
T1	'CONVENE' CONFERENEC TABLE, LAMINATE, WD EDGE WITH TWO POWER UNITS
T2	'AU LAIT' TABLE, LAMINATE, WD EDGE
T3	'ARRIVA' TABLE, LAMINATE
S1	LATERAL FILE, 4 DRAWER
S2	'SHAKER' WARDROBE, WOOD, DOUBLE DOOR W/DRAWER
S3	HIGH DENSITY FILING, OPEN SHELF, LEGAL
ET1	'ACCESS' HIGH-LOW EXAM TABLE
WR	WASTE CAN, SQUARE STEEL
CH	COAT HOOK

WS1	OFFICE WORKSTATION
EC1	EXAM RM CASEGOODS
EC2	TRAUMA EXAM CASEGOODS

C1	'MIST' TASK CHAIR
C2	'BETA' ARM CHAIR
C2B	'BETA' SIDE CHAIR
C3	'ZENNEY' ARM CHAIR
C4	'VERDE' STOOL
C5	'BETA' SLEEPER
C6	OUTLOOK 'VAUGHORNE' SINGLE SEAT, ARM CHAIR
C6B	OUTLOOK 'VAUGHORNE' BARRING, SINGLE SEAT CHAIR
C7	OUTLOOK 'VAUGHORNE' TABLE, ED EDGE
C12	'MIL LIT' TABLE, LAMINATE, ED EDGE
T3	'SPECTRA' FOLDING TABLE, RECTANGLE, LAMINATE (18' X 60")
T3A	'SPECTRA' FOLDING TABLE, RECTANGLE, LAMINATE (18' X 12')
B	LATERAL FILE, 4 DRAWER
91	'SHAKER' HANDICAPPED WOOD, DOUBLE DOOR W/DRAWER
93	HIGH DENSITY FILMS, OPEN SHELV, LEGAL, (4 POST, 18" HIGH)
ET1	'ACCEB' HIGH-LOW EXAM TABLE
UR	SHADE CAR, SQUARE STEEL
CI	COAT HOOK

[illegible]

JOB NO: 2009011201
DRAWN: HJG
CHECKED: CCG
DATE: 10.20.2009
REFUS CODE:
0118.20.0
06.27.2000

F-6

[illegible]

ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



**MCGRAH SUB-REGIONAL
HEALTH CENTER**
FURNISHING PLAN

DATE: 3/25/2009
SCALE: AS NOTED
DRAWN BY: _____

SHEET
Q-106
OF 6Q

FURNITURE LEGEND

Σεε F-6



ITEM #	MANUFACTURER/DESCRIPTION	MODEL #	QUANTITY	FURNISHED & INSTALLED BY: B=BURKHART O=OTHERS	ANCHORED TO: FLOOR, WALL, OR CEILING	REMARKS/DETAILS
A	AIR TECHNIQUES DENTAL VACUUM SYSTEM	STS 6	1	FB IB	MECH ROOM	
B	AIR TECHNIQUES DENTAL AIR SYSTEM	AIRSTAR 30	1	FB IB	MECH ROOM	
C	AIR TECHNIQUES REMOTE CONTROL PANEL	-	1	FB IB	WALL MOUNT	
D	ADEC TREATMENT CONSOLE	5580.42	2	FB IB	SITS ON FLOOR	
E	ADEC ASSISTANT'S DELIVERY UNIT	4635	2	FB IB	ATTACH TO 5580	
F	PLANMECA INC. INTRAORAL X-RAY SYSTEM	INTRA	1	FB IB	CABINET MOUNT	
G	ADEC CENTRAL CONSOLE	5543.TB	1	FB IB	SITS ON FLOOR	
H	ADEC ACCESSORY CONSOLE	5531.58	1	FB IB	SITS ON FLOOR	SINK LEFT
J	ADEC ACCESSORY CONSOLE	5531.58	1	FB IB	SITS ON FLOOR	SINK RIGHT
K	ADEC CASCADE DENTAL CHAIR	1040	2	FB IB	SITS ON FLOOR	
L	ADEC RADIUS DELIVERY SYSTEM	2122	2	FB IB	ATTACH TO CHAIR	
M	ADEC PREFERENCE MOUNT CABINET LIGHT	6300	2	FB IB	ATTACH TO CENTRAL	
N	ADEC ACCESSORY CONSOLE	5531.58	1	FB IB	SITS ON FLOOR	ROUNDED BOTH ENDS NO SINK PACKAGES
O	AIR TECHNIQUES FILM PROCESSOR	PERIPRO	1	FB IB		
P	SCICAN STERILIZER	STATIM 2000	1	FB IB		
Q	ADEC STERILIZER	LIZA	1	FB IB		
R	WHALEDENT RECESSED ULTRASONIC CLEANER	UC300R	1	FB IB		
S	ADEC DISPENSING UNIT	5730.29	2	FB IB		
T	SCICAN DISTILLER SYSTEM	AQUASTATIC	1	FB IB	VERIFY LOCATION	

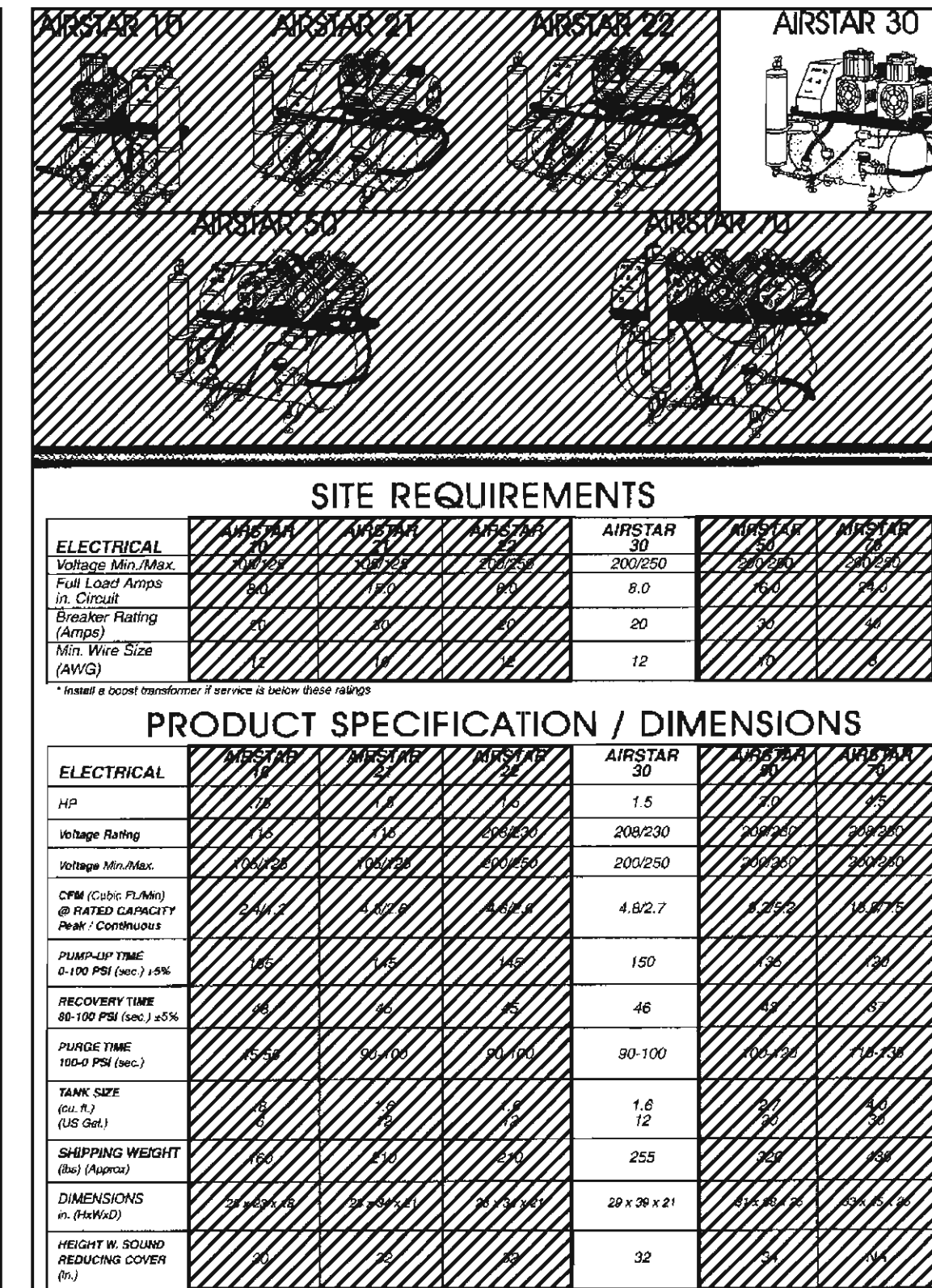
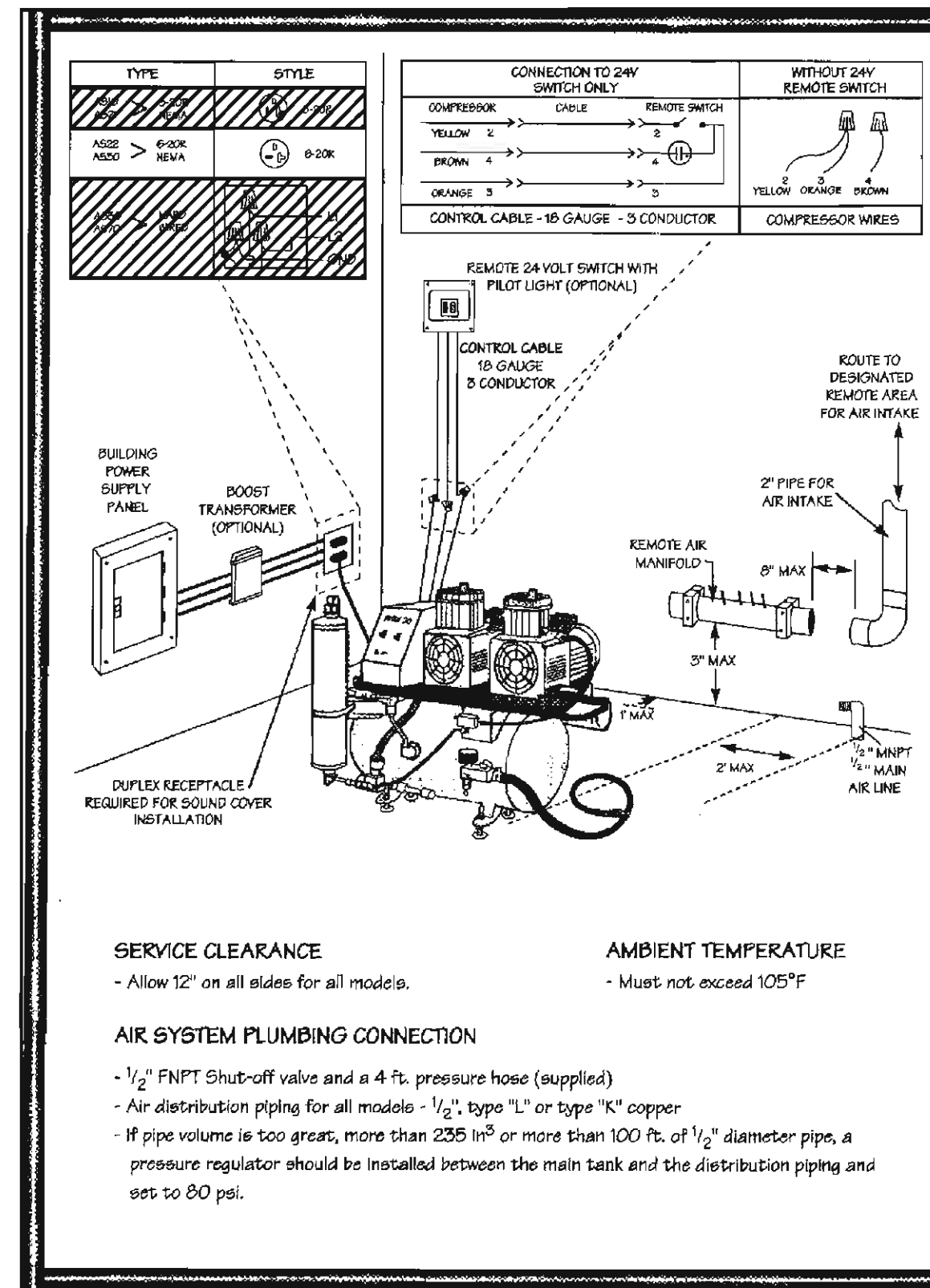
OF 5D

Technical drawings of STS-6 and STS-3 gas storage tanks. The top section shows STS-6 (4 Gallon CAS, P/N 54900) and STS-3 (4 Gallon CAS, P/N 54800) with dimensions like 20-5/8", 18-3/4", and 46-1/2". The bottom section shows STS-6 & STS-3 (4 Gallon CAS, P/N 54900) with dimensions like 26" and 18-3/4". A note states: "All CAS heights can be increased by 4 inches with adjustment holes." Another note states: "When the CAS is stacked onto a single or dual STS the resulting configuration must be bolted or secured to the floor or wall."

SITE REQUIREMENTS			
ELECTRICAL	STS-4 S4000	STS-6	S4910 S4920
Minimum circuit breaker rating	20A	2 each 20A 1 each 40A	
Wire size AWG minimum gauge	#12	2 each #12 1 each #8	
Receptacle	Nema 5-15R	2 Nema 6-15 R	
PLUMBING	STS-3	2 STS-3 In Tandem	
Exhaust	2" sch. 40 pipe	2" sch. 40 pipe	
Ambient Temperature	40° - 104° F (5° - 40° C)	40° - 104° F (5° - 40° C)	
Main Line Diameter I.D. in Inches (min)	1"	1-1/2"	
End Fitting At STS	1-1/2" FNPT	1-1/2" FNPT	
Riser Diameter ID	1"	1/2"	
Branch Line Dia. I.D. (min)	1"	1"	
Drain Line	1-1/2" Schedule 40 Pipe	1-1/2" Schedule 40 Pipe	
Wash-Out Line	3/4" Garden Hose	3/4" Garden Hose	

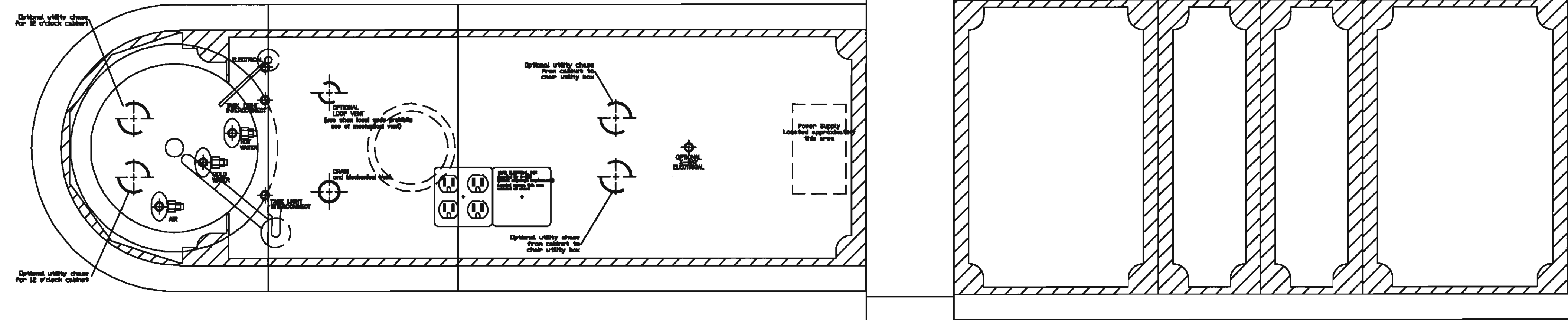
NOTE: Suction piping must slope at least 1/4" for each 10 feet of run towards the pump.
Use PVC Schedule 40 or Copper Type M.

PRODUCT SPECIFICATION/DIMENSIONS		Branch Line Dia. I.D. (min)
ELECTRICAL	STS-4	STS-6
VOLTAGE (MIN/MAX)	100/250	200/250
FULL LOAD AMPS	26	26
STARTING AMPS	130	130
FREQUENCY	60Hz	60Hz
MAXIMUM VACUUM In Hg	31"	14"
VACUUM LEVEL (PRESET) In Hg	31"	10"
WEIGHT Lbs.	114	220
STS™ DIMENSIONS in (WxDxH)	20-1/2 x 16-3/4 x 21-1/2"	20-1/2 x 16-3/4 x 46-1/2"
CAS™ DIMENSIONS in (WxDxH)	22-5/8 x 18-1/4 x 46-1/4"	22-5/8 x 18-3/4 x 46"



1 AIR TECHNIQUES STS 6 VACUUM
NOT TO SCALE - SEE FULL SIZE TEMPLATES

2 AIR TECHNIQUES AIRSTAR 30 COMPRESSOR
NOT TO SCALE - SEE FULL SIZE TEMPLATES



3 ADEC 5543 CENTRAL CONSOLE
NOT TO SCALE - SEE FULL SIZE TEMPLATE

DENTAL EQUIPMENT SPECIFIC
TO THESE SPECIFICATIONS
CAN BE ACQUIRED FROM:



BURKHART

DENTAL SUPPLY COMPANY
2502 South 78th Street
Tacoma, Washington 98409

12000 Industry Way, Unit N-1
Anchorage, Alaska 99515

Attn: Carter Barnes
Phone: 1-866-324-1983
Fax: 1-253-212-4981

DO NOT SCALE FROM THESE DRAWINGS.
USE CALLED-OUT DIMENSIONS ONLY.

NOTE:

All framing, broosing, door sizes, floor levels, cabinet heights, rest room and lunch room facilities (if any) and other details should be modified to comply with latest Americans With Disabilities Act (A.D.A.) guidelines and similar State regulations. Architect/Contractors must submit plans to building and other local officials as necessary for compliance with all Federal, State and Local building codes, including A.D.A. guidelines, before commencing work. Notify Burkhart of any changes that would modify any dental treatment rooms and/or any dental cabinet layout.

The Contractor should furnish all electrical, plumbing, and structural requirements listed, as this is necessary before the dental equipment can be installed. Furthermore, will furnish the dental equipment. Check all measurements with the actual building dimensions, or Architect's plans. The specifications shown on this plan have not been checked for compliance with Federal, State or Local building codes and regulations.

Listed requirements show only the services, connections and fixtures required for the dental office equipment shown; and these drawings do not provide for the electrical, mechanical and structural requirements for the building or office as a whole.

See Mechanical and Electrical Sheets for further information.

THIS IS A SUGGESTED PLAN WITH SPECIFICATIONS FOR THE DENTAL EQUIPMENT ONLY.

[illegible]

**ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM**

**DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING**
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



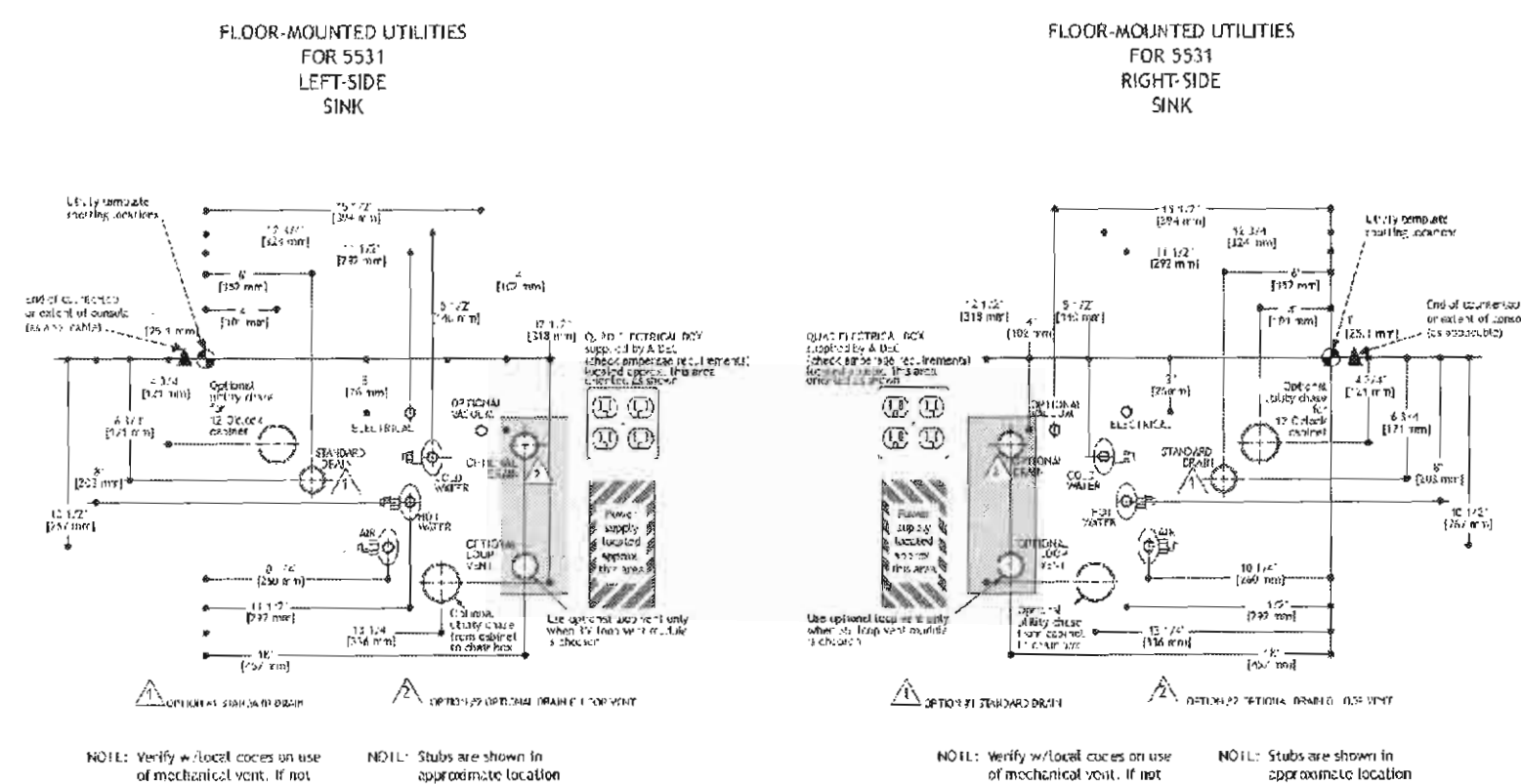
**McGRATH SUB-REGIONAL
HEALTH CENTER**
DENTAL DETAILS

FILE NAME:	PROJECT NO: 0198
DATE: 7/20/2009	PROJ ARCH: BK
SCALE: AS NOTED	
DRAWN BY: CJP	

SHEET

OF 4D

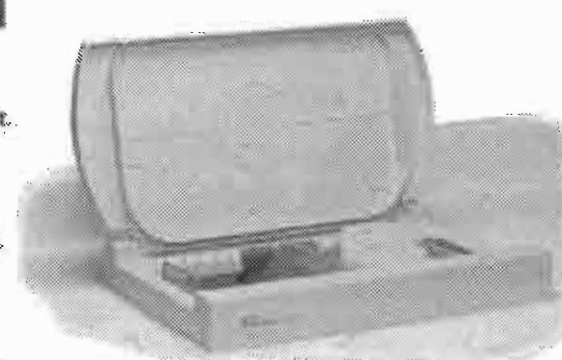
5531 Floor-Mounted Utilities



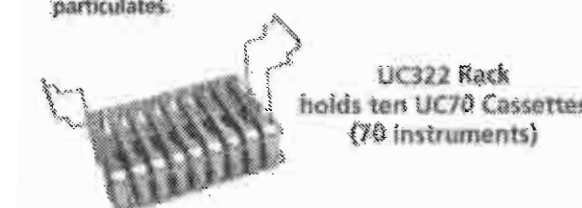
85.0142.00 Rev H 2005-09

BioSonic UC300R
Recessed

- Mounts in countertop providing more open space above the cabinet.
- Two part construction maximizes installation flexibility.
- Above counter engineering grade plastic provides an ergonomic look.
- Below counter stainless steel housings are easy to maintain and durable.
- Separate electronic control unit can be positioned for accessibility or out of harm's way.
- Hinge action lid reduces airborne particulates.



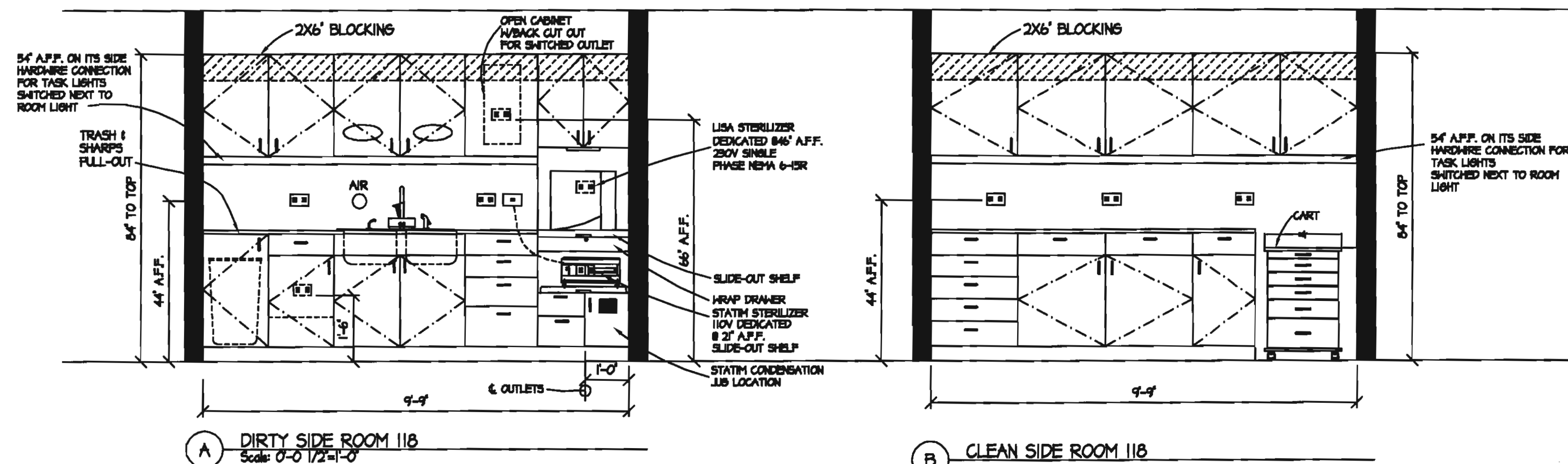
Remote Timer
Optional Remote Digital Timer for increased user friendly operation.



Racks for other popular cassettes available

Technical Information	
Tank Capacity	3.8 Gallons (14.4 liters)
Fill Capacity	3.0 Gallons (11.0 liters)
Overall Dimensions	17.125 x 12.125 x 2.25 inches
Alcove Countertop Surface	(43.5 x 30.8 x 3.4 cm)
Below Countertop Surface	14.125 x 9.5 x 14 inches (35.8 x 24.1 x 35.4 cm)
Tank Dimensions	14 x 9 x 6.75 inches (35.5 x 22.9 x 17.1 cm)
Output	300 watts
Operating Frequency	40 kHz

8 WHALEDENT ULTRASONIC CLEANER
NOT TO SCALE - SEE FULL SIZE TEMPLATE



DENTAL EQUIPMENT SPECIFIC
TO THESE SPECIFICATIONS
CAN BE ACQUIRED FROM:



BURKHART

DENTAL SUPPLY COMPANY
2502 South 78th Street
Tacoma, Washington 98409

12000 Industry Way, Unit N-1
Anchorage, Alaska 99515

Attn: Carter Barnes
Phone: 1-866-324-1983
Fax: 1-253-212-4981

DO NOT SCALE FROM THESE DRAWINGS.
USE CALLED-OUT DIMENSIONS ONLY.

NOTE:

All framing, bracing, door sizes, floor levels, cabinet heights, rest room and lunch room facilities (if any) and other design details must be modified to comply with latest American with Disabilities Act (A.D.A.) guidelines and similar Federal, State and local laws. The Contractor must be permitted to building and other local officials as necessary for compliance with all Federal, State and Local building codes, including A.D.A. guidelines, before commencing work. Notify Burkhart of any changes that would modify any dental treatment rooms and/or any dental cabinet layout.

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[illegible]

**ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM**

**DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING**
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



**McGRATH SUB-REGIONAL
HEALTH CENTER**

DATE: 4/20/2009	FILE NAME:
SCALE: AS NOTED	PROJECT NO: 0198
DRAWN BY: CFP	PROJ ARCH: BK

SHEET
D-501

5 OF 5D

GENERAL
ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO REQUIREMENTS OF THE INTERNATIONAL CODE COUNCIL INTERNATIONAL BUILDING CODE (IBC) 2006 EDITION. WHERE EXPLICIT DETAILS ARE NOT SHOWN OR DESCRIBED, THE MINIMUM REQUIREMENTS OF THE ABOVE CODE SHALL APPLY. UNLESS OTHERWISE NOTED, ALL CODES, STANDARDS AND OTHER PUBLICATIONS CITED SHALL REFER TO THE LATEST EDITION.

THESE PLANS ARE FOR THE CONSTRUCTION OF THE MCGRATH SUBREGIONAL HEALTH CENTER IN MCGRATH, ALASKA.

IN ADDITION TO DEAD LOADS, THE FOLLOWING LIVE LOADS WERE USED FOR DESIGN:

ROOF: 60 P.S.F. (SNOW - 2 MONTH DURATION) PLUS DRIFTING
WIND: 100 MPH, EXPOSURE C
SEISMIC: $S_s=0.373$, $S_1=0.13$, SITE CLASS D. SEISMIC DESIGN CATEGORY C

LATERAL LOADS ARE RESISTED BY WOOD SHEAR WALLS AND DIAPHRAGMS.

PREPARATION OF A SAFE AND SUITABLE BUILDING SITE SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS AND SLABS. NO SITE INVESTIGATION OR SOILS BORINGS WERE PERFORMED BY THE ENGINEER. THE FOUNDATION DESIGN IS BASED ON THE "GEOTECHNICAL REPORT FOR THE PROPOSED MCGRATH HEALTH CENTER" PREPARED BY THE GEOTECH GROUP FOR CDM ENGINEERING GROUP, INC. OF ANCHORAGE, ALASKA. IN THIS REPORT IT IS STATED THAT PERMAFROST IS PRESENT ON THE SITE, AND A DIAGRAM ROUGHLY DELINEATES THE EXTENT OF PERMANENTLY FROZEN SOILS. IN ORDER TO REDUCE THE POSSIBILITY OF DIFFERENTIAL SETTLEMENT, THE BUILDING HAS BEEN LOCATED ON A PORTION OF THE SITE THAT IS ASSUMED TO HAVE NO PERMAFROST PRESENT. A CONVENTIONAL STRIP FOUNDATION SHALL BE USED. THE ENGINEER HAS NOT CONDUCTED A FIELD CAPAS, AS RECOMMENDED IN THE GEOTECH REPORT. CONTACT OWNERS REPRESENTATIVE AND ENGINEER FOR DIRECTION IF PERMAFROST OR FROZEN SOILS ARE ENCOUNTERED WITHIN THE LIMITS OF THE BUILDING EXCAVATION.

EXCAVATE AND REMOVE ALL ORGANIC MATTER, DEBRIS AND FROST SUSCEPTIBLE SOILS FROM UNDER THE BUILDING FOOTPRINT AND TO 24" BEYOND THE BUILDING FOOTPRINT. PLACE ALL INTERIOR AND EXTERIOR FOOTINGS ON NATURAL UNDISTURBED, NON-FROST SUSCEPTIBLE (N.F.S.) SOIL OR ON COMPACTED NON-FROST SUSCEPTIBLE GRAVEL BACKFILL FREE OF ORGANIC MATTER AND DEBRIS, AND CONFORMING TO THE FOLLOWING GRADATION:

SIEVE:	PERCENT PASSING:
3"	100
1"	80 - 100
#4	30 - 70
#200	0 - 5

NO MORE THAN 3% OF PARTICLES BY WEIGHT SHALL BE FINER THAN 0.02 MM.
BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES IN LOOSE
THICKNESS AND COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH
ASTM SPECIFICATION D-1557.

FOUNDATION INSULATION SHALL BE 'DOW HIGHLOAD 40' EXTRUDED POLYSTYRENE INSULATION, 'BLUEBOARD' OR 'INSULFOAM' HIGH DENSITY EXPANDED POLYSTYRENE WITH 40 PSI MINIMUM COMPRESSIVE STRENGTH.

INTERIOR SLABS: PREPARE THE SITE BY REMOVING ALL ORGANIC SOILS AND DEBRIS. AFTER EXCAVATION, COMPACT THE EXISTING SOIL TO 95% OF MAXIMUM DENSITY AND BACKFILL WITH A MINIMUM OF 8" OF NON-FRORST SUSCEPTIBLE GRAVEL AND COMPACT AS DESCRIBED ABOVE, PLANE REINFORCING STEEL AT MID-DEPTH OF SLAB AND SUPPORT AT 4'0" C/MAXIMUM WITH WELL CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS. DO NOT SUPPORT ON STONES, PREPARED PREFORMED CONTROL OR CONSTRUCTION JOINTS (C.J.) AT LOCATIONS SHOWN ON THE PLANS AND AT 20' O/C MAXIMUM.

EXTERIOR SLABS: PROVIDE A MINIMUM OF 72 INCHES OF NON-FROST SUSCEPTIBLE GRAVEL BELOW SLAB CONFORMING TO THE GRADATION AND COMPACTION REQUIREMENTS DESCRIBED ABOVE FOR FOUNDATIONS.

DRAINAGE: SLOPE ALL EXTERIOR SLABS ADJACENT TO BUILDINGS TO DRAIN AWAY FROM BUILDING PERIMETER AT 1/8" PER FOOT MINIMUM SLOPE.

MIXING, SELECTION OF MATERIALS, AND PLACING OF ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE IBC, CHAPTER 19. AN AIR ENTRAINING AGENT SHALL BE USED IN ALL CONCRETE MIXES FOR CONCRETE WORK WHICH IS TO BE EXPOSED TO EARTH OR WEATHER.

AIR ENTRAINMENT SHALL BE 5% +/- 1% BY VOLUME. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'C) = 3000 P.S.I. EXCEPT CONCRETE GROUT FOR MASONRY WALLS WHICH SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'C) = 2000 P.S.I. CONCRETE FOR INTERIOR AND EXTERIOR SLABS SHALL CONTAIN 1.6 POUNDS OF "FORTA FIBER D15" COLLATED FIBRILLATED POLYPROPYLENE FIBER PER CUBIC YARD OF CONCRETE. THE FIBER SHALL BE THOROUGHLY MIXED INTO THE CONCRETE IN TRANSIT TO THE SITE, IN ACCORDANCE WITH THE FIBER MANUFACTURER'S RECOMMENDATIONS.

UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO IBC CHAPTER 19. REINFORCING BARS SHALL BE GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 DOUBLE END ANCHORS. REINFORCING STEEL SHALL BE SUPPORTED ON WELLED CURED CONCRETE BLOCKING OR APPROVED METAL CHAIRS. REINFORCING BARS SHALL BE SPLICED BY A LAP OF AT LEAST 30 BAR DIAMETERS, A MINIMUM LAP FOR ALL BARS SHALL BE 24". CONCRETE COVER OVER REINFORCING SHALL BE 3" FOR CAST CONCRETE AGAINST EARTH, CONCRETE COVER FOR FORMED CONCRETE THAT WILL BE EXPOSED TO THE FACE OF THE EARTH SHALL BE A MINIMUM FOR #6 THROUGH #8 BARS AND 2" MINIMUM FOR #9 BARS AND SMALLER. ALL WELDED WIRE FABRIC (W/F), OTHER REINFORCEMENT SHALL HAVE A MINIMUM COVERAGE OF NOT LESS THAN 3/4".

ANCHOR BOLTS, THREADED RODS AND CONCRETE EXPANSION ANCHORS SHALL CONFORM TO ASTM A 307, CONCRETE EXPANSION ANCHORS (KB) SHALL BE "HILTI HIT-TECH" TYPE 150. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ANCHOR BOLTS SHALL BE PROVIDED WITH HEX HEAD NUTS AND 2"x2 1/2" STEEL PLATE WASHERS. WHERE BOLTS OR RODS ARE USED WITH CEDAR SILL PLATES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED EQUIVALENT. STEEL SHALL PROVIDE 3/4" x 10" ANCHOR BOLTS AT 48" O/C SPACING UNLESS NOTED OTHERWISE AND WITHIN 6" OF WALL OPENINGS AND BUILDING CORNERS.

POWER FASTENERS FOR CONNECTION TO CONCRETE, GROUTED MASONRY, OR STEEL SHALL BE POWDER ACTUATED HILTI X-AL-H HEAVY DUTY DOME HEAD NAILS WITH 0.177 INCH SHANK DIAMETER. MINIMUM FASTENER EMBEDMENT SHALL BE 1 3/8". NAIL LENGTH SHALL BE AS REQUIRED TO ACHIEVE SPECIFIED MINIMUM PENETRATION INTO SUBSTRATE.

THREADED ROD ANCHORS AND REINFORCING BAR DOWELS SHALL BE SET IN SIMPSON ACRYLIC TIE ADHESIVE OR STRUCTURAL EQUIVALENT. ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. MINIMUM EMBEDMENT IN CONCRETE FOR ALL ANCHORS SHALL BE 31/2" UNLESS NOTED OTHERWISE.

LUMBER SHALL CONFORM TO THE CLASSIFICATION, DEFINITION, AND GRADING REQUIREMENTS OF IBC CHAPTER 23 WITH ALLOWABLE UNIT STRESSES AS GIVEN IN THE AMERICAN FOREST & PAPER ASSOCIATION 'NATIONAL DESIGN SPECIFICATION 2001 SUPPLEMENT', TABLE 4A. LUMBER SHALL BE GRADE MARKED BY THE WEST COAST LUMBER INSPECTION BUREAU /WESTERN WOOD PRODUCTS ASSOCIATION.

ITEM	SPECIES
4 X AND LARGER	DOUGLAS FIR #2
BEARING WALL PLATES	HEM FIR #2
BEARING WALL STUDS	HEM FIR #2
ALL OTHER LUMBER	HEM FIR #2

ALL LUMBER SHALL BE FASTENED IN CONFORMANCE WITH TABLE 2304.9.1 OF THE IRC, UNLESS NOTED OTHERWISE. FASTENERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. FASTEN ALL JOIST BLOCKING TO PLATES WITH (4) 16D MINIMUM AND FASTEN ALL WALL PLATES TO WOOD FLOORS WITH 16D AT 6" ON CENTER TYPICAL. DOUBLE TOP PLATES SHALL OVERLAP 10' - 0" MINIMUM AND SHALL BE SPLICED TOGETHER WITH 16D NAILS AT 6" ON CENTER MINIMUM UNLESS NOTED OTHERWISE.

PROVIDE JOIST/BEAM HANGERS WITH LOAD CAPACITY EQUAL TO SUPPORTED MEMBER. SHEAR LOAD CAPACITY FOR ALL MEMBERS NOT OTHERWISE PROVIDED WITH DIRECT BEARING SUPPORT, PROVIDE A MINIMUM OF (2) KING STUDS AND (2) CRIPPLE STUDS FOR ALL BEARING WALL HEADERS, PROVIDE A MINIMUM OF (1)YKING STUD AND (1) CRIPPLE STUD AT NON-BEARING WALL HEADERS, PROVIDE SOLID BLOCKING SUPPORT FOR BEAMS AND HEADERS CONTINUOUS DOWN TO FOUNDATIONS. MINIMUM HEADER OVER OPENINGS IN BEARING WALLS SHALL BE 4X12 DF#1 UNLESS NOTED OTHERWISE.

BOULDS AND NUTS BEARING AGAINST WOOD TO BE PROVIDED WITH FLAT HEADERS. SOLID BLOCKING OF NOT LESS THAN 2" NOMINAL THICKNESS SHALL BE PROVIDED AT ENDS AND AT ALL SUPPORTS OF JOISTS AND RAFTERS, UNLESS SHOWN OTHERWISE. BEAM AND JOIST HANGERS SHALL HAVE A CAPACITY EQUAL TO THE SHEAR STRENGTH OF THE BEAM OR JOIST WHICH IT IS SUPPORTING, UNLESS NOTED OTHERWISE. JOIST BRACING SHALL BE PROVIDED AS SHOWN ON DRAWINGS. JOIST SHALL BE "STRONG TIE CONNECTORS" AS MANUFACTURED BY SIMPSON COMPANY OR APPROVED EQUAL. ALL SIMPSON CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL.

ALL WOOD INDICATED AS PRESSURE TREATED, (PT) SHALL BE PRESSURE TREATED (PT) IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVER'S ASSOCIATION STANDARD (AWPA) 1-02. THE PRESERVATIVE SHALL BE ALKALINE COPPER QUAT (ACQ). ALL WOOD SHALL BE TREATED TO A RETENTION OF 0.60 PCF AS REQUIRED FOR 'GROUND CONTACT'. ALL PRESSURE TREATED WOOD SHALL BE APPROPRIATELY MARKED ATTESTING TO COMPLIANCE WITH THESE REQUIREMENTS. LUMBER SHALL BE DRIED TO A MAXIMUM MOISTURE CONTENT OF 19% OR 15% FOR JOINTS, BOLTS, NAILS AND SIMPSON CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL.

MATERIALS, MANUFACTURE, AND QUALITY CONTROL OF GLUED LAMINATED STRUCTURAL UNITS (GLULAM) SHALL CONFORM TO IBC CHAPTER 23 WITH ALLOWABLE STRESSES AS DEFINED IN AMERICAN FOREST & PAPER ASSOCIATION 'NATIONAL DESIGN SPECIFICATION 2001 SUPPLEMENT', TABLE 5A, AND SHALL BE DOUGLAS FIR, COMBINATION 24F-V8, DF/DF. GLUE LAMINATED STRUCTURAL UNITS SHALL BE GRAD MARKED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AITC.

WOOD TRUSSES SHALL BE DESIGNED FABRICATED AND INSTALLED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE'S DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES (TP1-78). TRUSS PROFILES SHALL BE AS SHOWN ON THE DRAWINGS. INSTALL AND BRACE TRUSSES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. TRUSS SHOP DRAWINGS SHALL BE PROVIDED BY THE TRUSS SUPPLIER AND SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE CIVIL ENGINEERING IN THE STATE OF ALASKA.

ALL PLYWOOD SHALL CONFORM TO UBC STANDARD 23-2 AND SHALL BE AMERICAN PLYWOOD ASSOCIATION GRADE TRADE MARKED. PLYWOOD SHALL BE GROUP 1 OR GROUP II DOUGLAS FIR. ALL PANELS SHALL BE NOMINAL 4' X 8' PANELS. UTILIZE FULL SHEETS WHEREVER POSSIBLE. LAY FACE GRAIN OF ROOF AND FLOOR SHEATHING PANELS PERPENDICULAR TO JOISTS AND WITH PANEL CONTINUOUS OVER THREE OR MORE SPANS. STAGGER END JOINTS OF SUCCESSIVE COURSES 4' - 0". WALL SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PARALLEL TO STUDS, (LONG DIMENSION VERTICAL).

ROOF SHEATHING: SH. BE 5/8" THICK, GRADE APA 40/20 SPAN RATED PLYWOOD WITH EXTERIOR GLUE. ROOF SHEATHING SHALL BE FASTENED TO END SUPPORTS WITH 10D GALVANIZED NAILS AT 6" O/C. AT BLOCKED DIAPHRAGM LOCATIONS, FASTEN PLYWOOD TO FRAMING AT ALL PANEL EDGES WITH 10D GALVANIZED NAILS @ 4" O/C AT ALL LOCATIONS, FASTEN PLYWOOD TO INTERMEDIATE SUPPORTS WITH 10D GALVANIZED NAILS AT 12 INCHES ON CENTER. PROVIDE 2X4 BLOCKING ALONG ALL PANEL EDGES WHERE SHOWN ON THE DRAWINGS, FASTEN ROOF SHEATHING TO BLOCKING OVER EXTERIOR WALLS WITH 10D GALVANIZED NAILS AT 4" O/C.

ALL ORIENTED STRAND BOARD SHALL CONFORM TO UBC STANDARD 23-3 AND SHALL BE AMERICAN PLYWOOD ASSOCIATION GRADE TRADE MARKED. ALL PANELS SHALL BE NOMINAL 4' X 8' PANELS. UTILIZE FULL SHEETS WHEREVER POSSIBLE. LAY STRENGTH AXIS OF ROOF AND FLOOR SHEATHING PANELS PERPENDICULAR TO SUPPORTS AND WITH PANEL CONTINUOUS OVER THREE OR MORE SPANS. STAGGER END JOINTS OF SUCCESSIVE COURSES 4'.

OSB WALL SHEATHING: SHALL BE 7/16" PANELS WITH EXTERIOR GLUE. UNLESS NOTED OTHERWISE ON THE DRAWINGS, WALL SHEATHING SHALL BE FASTENED TO FRAMING WITH 8D GALVANIZED NAILS 3" O/C ALONG PANEL EDGES AND 12" O/C ALONG INTERMEDIATE SUPPORTS. WALL SHEATHING SHALL BE BLOCKED AT ALL EDGES WITH NOMINAL 2" SOLID BLOCKING.

FABRICATED WOOD JOISTS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS AND AS MANUFACTURED BY BOISE CASCADE OR APPROVED EQUAL. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION, HANDLING AND ERECTION OF FLOOR JOISTS. PROVIDE WEB STIFFENERS PER MANUFACTURER'S RECOMMENDATIONS AND ON BOTH SIDES OF WEBS WHERE JOISTS ARE SUPPORTED BY JOIST HANGERS. PROVIDE DIMENSIONAL PANELS ALONG JOIST SUPPORTS AND ENDS OF JOISTS. PROVIDE FULL-THICKNESS BACKER PLATE BETWEEN DOUBLE JOISTS WHERE JOIST IS FRAMED PERPENDICULAR INTO A DOUBLE JOIST. PROVIDE SOLID RIM JOISTS AROUND FULL PERIMETER OF FLOOR SYSTEM. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE LAMINATED VENER LUMBER BEAMS, WITH DEPTH EQUAL TO JOIST DEPTH, AT ALL OPENINGS IN FLOOR AND ROOF SYSTEMS. UNLESS NOTED OTHERWISE, PROVIDE 2" MINIMUM JOIST HANGING WITH 1/2" MINIMUM JOIST HANGING. PROVIDE CAPACITY OF THE JOIST AT ALL JOISTS WHERE JOIST IS NOT SUPPORTED BY DIRECT BEARING.

STRUCTURAL STEEL SHALL CONFORM TO UBC CHAPTER 22, FOR ASTM SPECIFICATION A-36, FY = 36 K.S.I. EXCEPT WHERE NOTED OTHERWISE. STEEL TUBING (TS) SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 K.S.I. DESIGN, FABRICATION AND WELDING SHALL CONFORM TO UBC CHAPTER 22, AND THE FOLLOWING: ALL WELDS SHALL BE ALLOWABLE STRESS DESIGN, MACHINE BOLT. BOLT SHALL CONFORM TO ASTM 307 AND SHALL BE PROVIDED WITH STANDARD HEX HEAD NUTS CONFORMING TO ASTM A563, GRADE A AND HARDENED STEEL CIRCULAR WASHERS CONFORMING TO ASTM F436. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY D1.1. WELD ALL FAYING SURFACES WITH CONTINUOUS 3/16" FILLET WELD (MINIMUM) UNLESS OTHERWISE NOTED. BRACING SHALL BE WELDED TO STRUCTURE WITH MINIMUM 4" (4") MINIMUM (4") 3/4" x 10" ANCHOR BOLTS UNLESS SHOWN OTHERWISE. PROVIDE ADEQUATE LATERAL BRACING FOR STRUCTURE DURING CONSTRUCTION.

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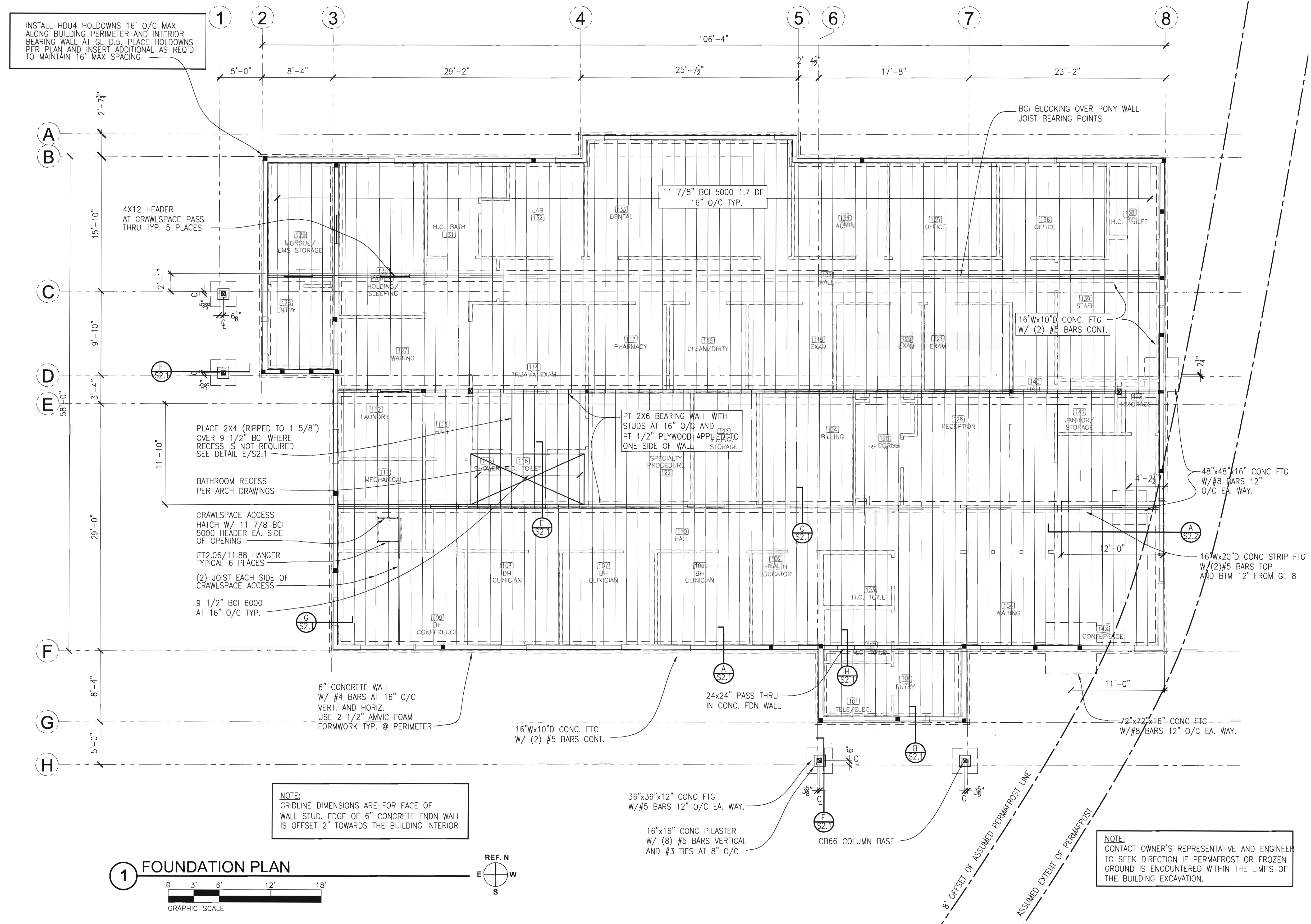
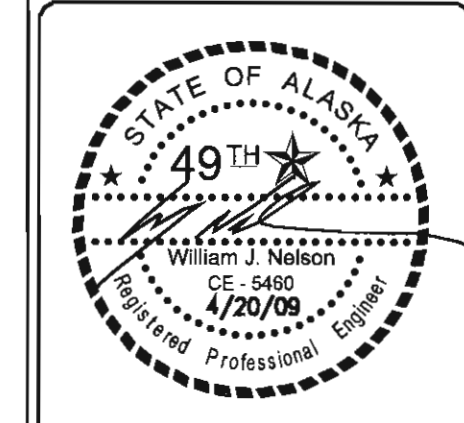
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TRIBAL HEALTH CONSORTIUM

DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING

1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



<p>McGRATH SUB-REGIONAL HEALTH CENTER</p> <p>GENERAL STRUCTURAL NOTES</p>		<p>FILE NAME: _____</p> <p>PROJECT NO: 0198 _____</p> <p>PROJ ARCH: BK _____</p>
<p>DATE: 4/20/2009 _____</p> <p>SCALE: AS NOTED _____</p> <p>DRAWN BY: MJD _____</p>		

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<p>McGRATH SUB-REGIONAL HEALTH CENTER</p> <p>FOUNDATION PLAN</p>		<p>FILE NAME: _____</p> <p>PROJECT NO: 0198</p> <p>PROJ ARCH: BK</p>
<p>DATE: 4/20/2009</p> <p>SCALE: AS NOTED</p> <p>DRAWN BY: MJD</p>		

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #: 11
(PROJECT)
Detail F S 2.1 July 14, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: The footings for the 4 pilasters were poured at the wrong elevation and are the same as the building foundation instead of 5' below finish grade as per detail F on sheet S 2.1. Will this be acceptable with the addition of some insulation over the top of the footings? Please let me know asap please.

Greg Waisanen
(REQUESTED BY)
(DATE)
RESPONSE: 10/11
This results in an 18" difference in the elevation of the footing between design and installation.
Place 4" of rigid insulation over the top of the footing and 4' beyond the edge of the footing, at the top of footing elevation.

M. Dura
(ARCHITECT / ENGINEER SIGNATURE)
RESPONSE NEEDED BY: 7-14-10
7-14-10
(DATE)
ACTION REQUIRED BY:
RESOLUTION:
Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.

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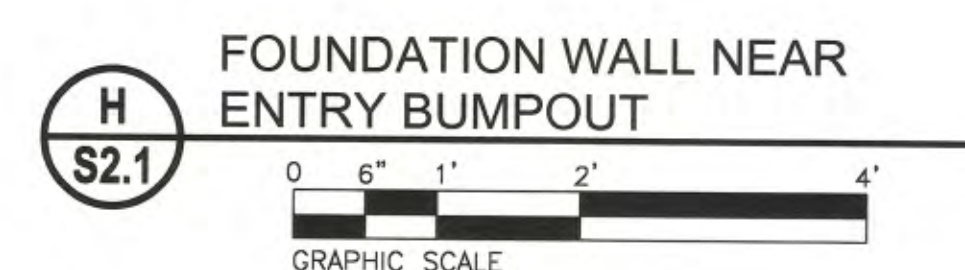
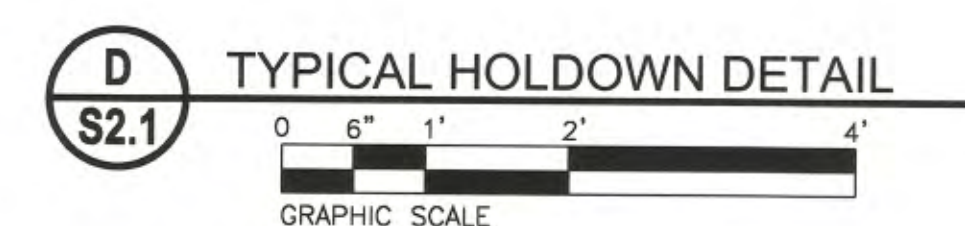
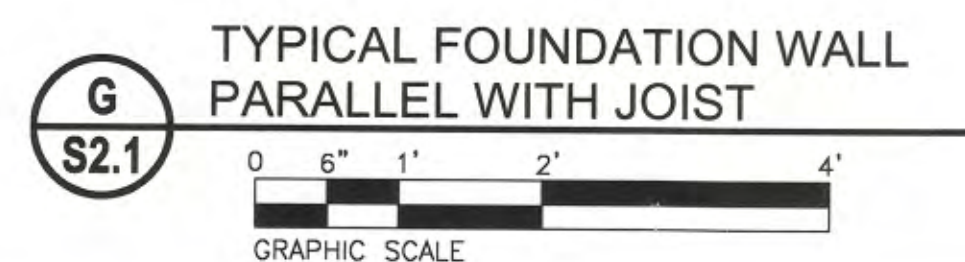
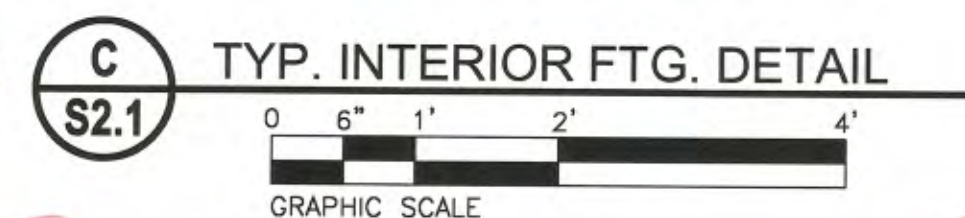
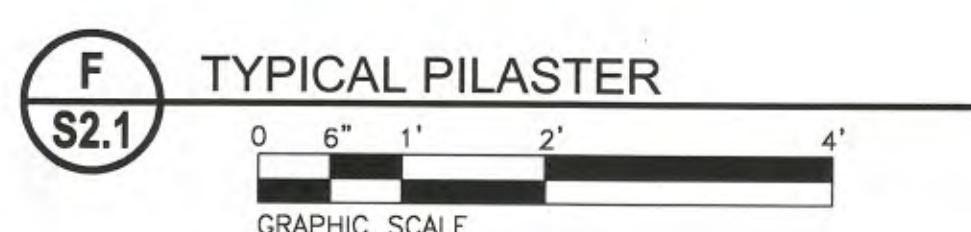
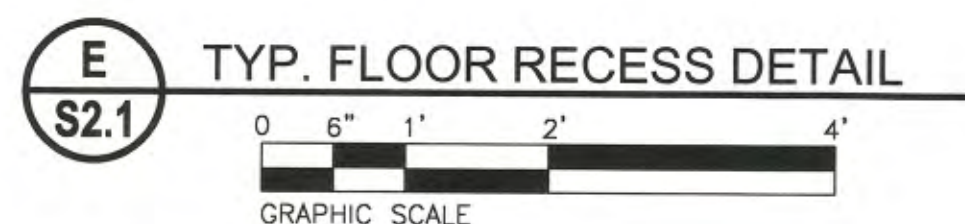
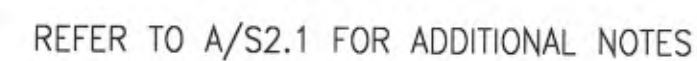
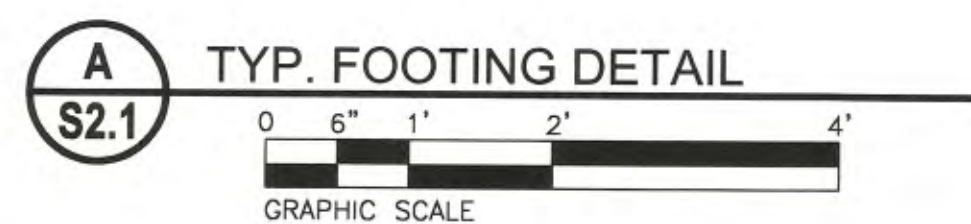
REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #: 3
(PROJECT)
C-S 2.1 6-15-10
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: could you please confirm the nailing schedule for the plywood on the crawl space walls

Greg Waisanen
(REQUESTED BY)
(DATE)
RESPONSE:
The Crawl space walls should be nailed with 8d nails at 6" o/c at panel edges and 12" o/c in the field. The nails shall be stainless steel per pressure treated wood note on S-1.0.

M. Dura
(ARCHITECT / ENGINEER SIGNATURE)
RESPONSE NEEDED BY:
6/17/10
(DATE)
ACTION REQUIRED BY:
RESOLUTION:
Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.



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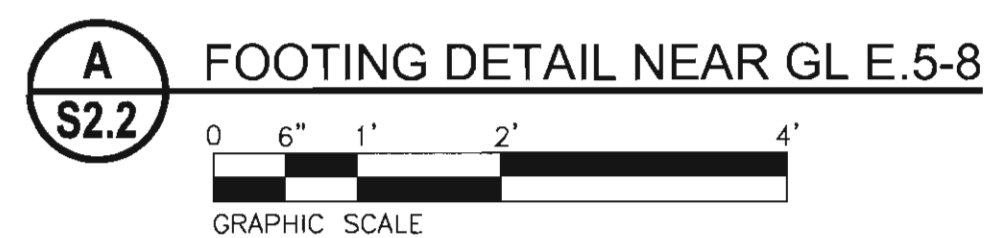
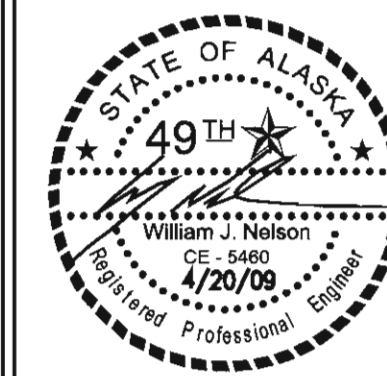
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ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



**MCGRATH SUB-REGIONAL
HEALTH CENTER**
FOUNDATION DETAILS

DATE: 4/20/2009	FILE NAME:
SCALE: AS NOTED	PROJECT NO: 0198
DRAWN BY: MJD	PROJ ARCH: BK

SHEET
S-2.1
3 OF 8

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McGRATH SUB-REGIONAL
HEALTH CENTER
FOUNDATION DETAILS

DATE: 4/20/2009	FILE NAME:
SCALE: AS NOTED	PROJECT NO: 0198
DRAWN BY: MJD	PROJ ARCH: BK

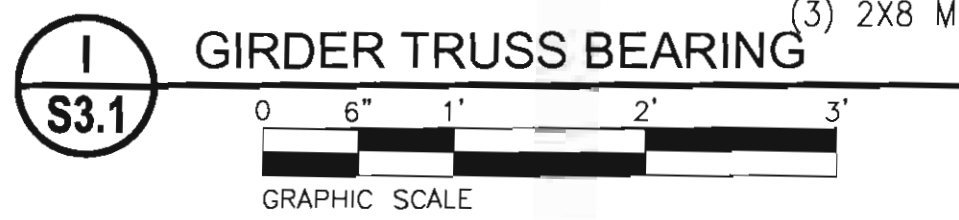
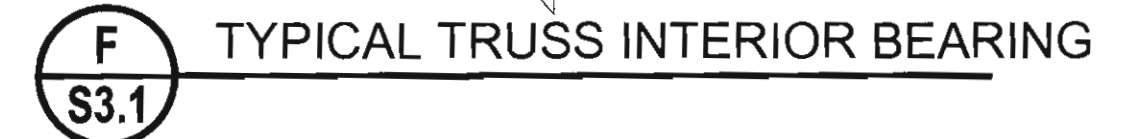
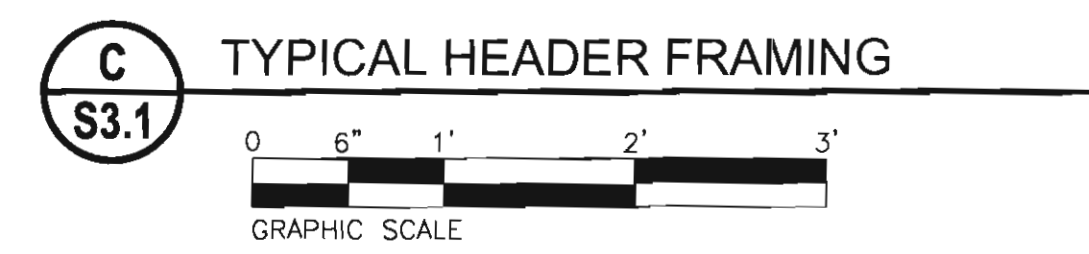
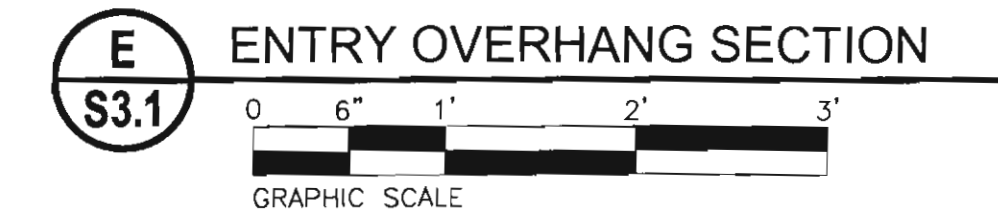
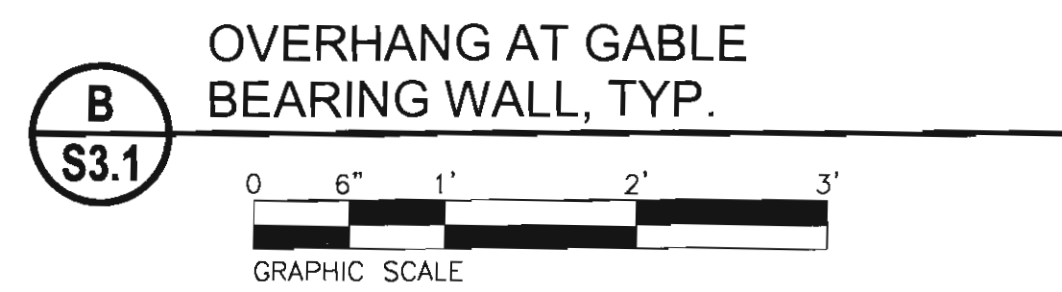
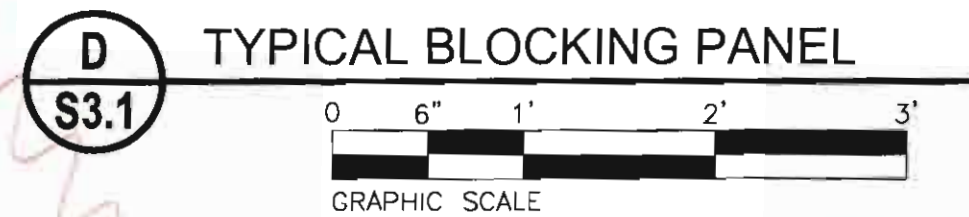
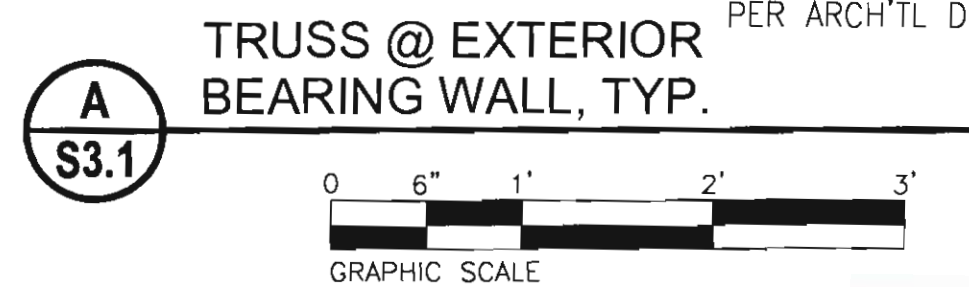
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S-2.2

4 OF 8

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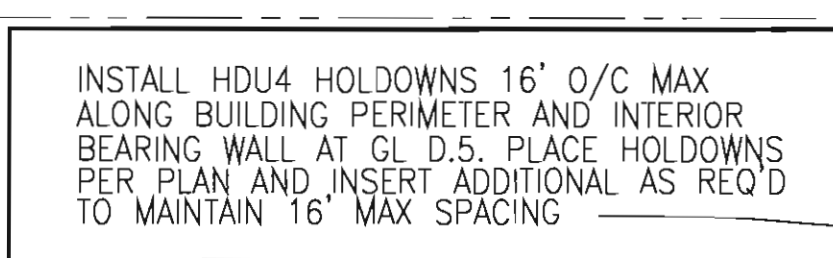
STATE OF ALASKA
49TH
William J. Nelson
CE - 5460
4/20/09
Registered Professional Engineer

TRIBAL HEALTH CONSORTIUM
**DIVISION OF ENVIRONMENTAL
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901 SOUTH BRAGAW STREET, SUITE 200
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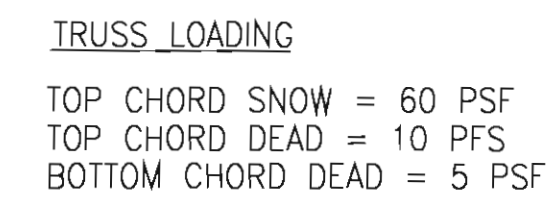
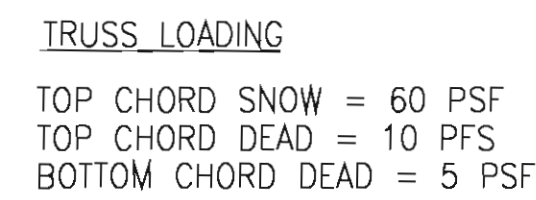
MCGRATH SUB-REGIONAL
HEALTH CENTER
ROOF DETAILS

SCALE: AS NOTED
DRAWN BY: MJD
PROJECT NO: 0198
PROJ ARCH. BK



- HDU 4 HOLD DOWN PER DETAIL D/S2.1



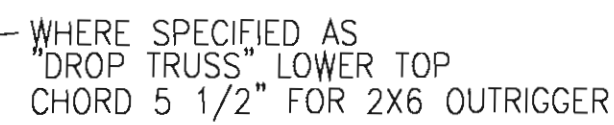
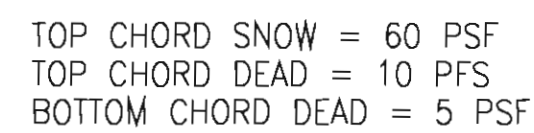


S5.0

0 1' 2' 4' 6' 8'

$\frac{3}{8}'' = 1' = 0''$

GRAPHIC SCALE

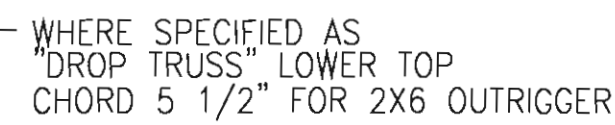
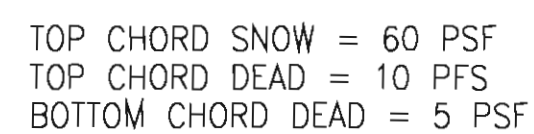


S5.0

0 1' 2' 4' 6' 8'

$\frac{3}{8}'' = 1' = 0''$

GRAPHIC SCALE



S5.0

0 1' 2' 4' 6' 8'

$3/8" = 1' = 0"$

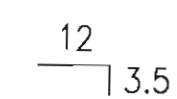
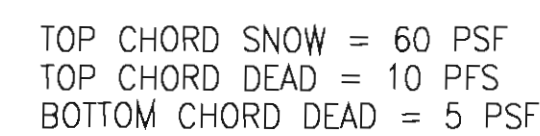
GRAPHIC SCALE

\$5.0

0 1' 2' 4' 6' 8'

3/8"=1'=0"

GRAPHIC SCALE

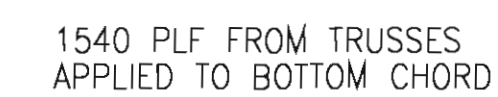


S5.0

0 1' 2' 4' 6' 8'

$\frac{3}{8} = 1' = 0''$

GRAPHIC SCALE



S5.0

0 1' 2' 4' 6' 8'

$\frac{3}{8} = 1' = 0"$

GRAPHIC SCALE

STATE OF ALASKA
49TH
William J. Neilson
CE-5460
1/20/09
Registered Professional Engineer

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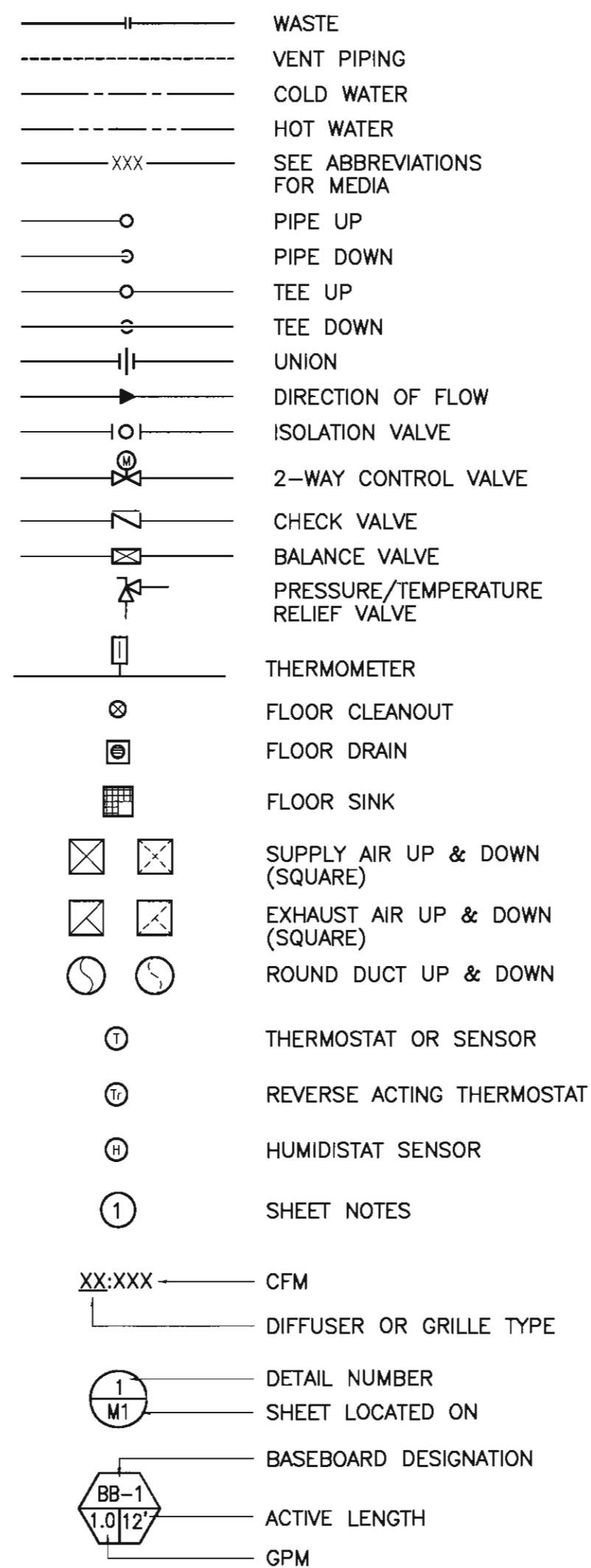
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TRUSS PROFILES

DATE: 4/20/2009	FILE NAME: _____
SCALE: AS NOTED	PROJECT NO: 0198
DRAWN BY: MJD	PROJ ARCH: BK

ABBREVIATIONS

AD ACCESS DOOR
AFF ABOVE FINISHED FLOOR
AMPS AMPERES
APD AIR PRESSURE DROP
ARCH ARCHITECTURAL
AS AIR SEPARATOR
ASSY ASSEMBLY
AWT AVERAGE WATER TEMPERATURE
B BOILER
BB BASEBOARD
BDD BACKDRAFT DAMPER
BTU/H BRITISH THERMAL UNIT / 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
DA DENTAL AIR
DC DUCT COIL
DEG DEGREE
DN DOWN
DVAC DENTAL VACUUM
DRAW DRAWING
E/A EXHAUST AIR
EAT ENTERING AIR TEMPERATURE
EF EXHAUST FAN
ET EXPANSION TANK
EXH EXHAUST
EWT ENTERING WATER TEMPERATURE
ESP EXTERNAL STATIC PRESSURE
EGT ENTERING GLYCOL TEMPERATURE
F FEET
FPM FEET PER MINUTE
FPF FINS PER FOOT
F FAHRENHEIT
FCO FLOOR CLEAN OUT
FOT FUEL OIL TANK
FW FIRE WATER
FR FRACTIONAL
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
GR GREASE TRAP
GT GLYCOL TANK
HB HOSE BIBB
HC HEATING COIL
HD HEAD
HGR HEATING GLYCOL RETURN
HGS HEATING GLYCOL SUPPLY
HRV HOT RECOVERY VENTILATOR
HW HOT WATER
HWG HOT WATER GENERATOR
HP HORSEPOWER
ID INSIDE DIAMETER
IN INCHES
LAT LEAVING AIR TEMPERATURE
LF LINEAL FEET
LGT LEAVING GLYCOL TEMPERATURE
LWT LEAVING WATER TEMPERATURE
MAX MAXIMUM
MBH THOUSAND BTU PER HOUR
MFR MANUFACTURER
MIN MINIMUM
MTD MOUNTED
NC NOISE CRITERIA
N.C. NORMALLY CLOSED
N.O. NORMALLY OPEN
NTS NOT TO SCALE
OC ON CENTER
O/A OUTSIDE AIR
OD OUTSIDE DIAMETER
PD PRESSURE DROP
PG PROPYLENE GLYCOL
PH PHASE
PRV PRESSURE REDUCING VALVE
PSI POUNDS PER INCH
R/A RETURN AIR
RGR RADIANT HEATING GLYCOL RETURN
RGS RADIANT HEATING GLYCOL SUPPLY
RPM REVOLUTIONS PER MINUTE
S/A SUPPLY AIR
SP STATIC PRESSURE
TEMP TEMPERATURE
TSP TOTAL STATIC PRESSURE
TSTAT THERMOSTAT
TYP TYPICAL
UH UNIT HEATER
V VENT
VTR VENT THROUGH ROOF
WC WATER COLUMN
WG WATER GAGE
WCO WALL CLEAN OUT
W WASTE
WTD WATER TEMPERATURE DROP

MECHANICAL LEGEND



PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MINIMUM CONNECTION SIZE					MANUFACTURER	MODEL	COLOR	TRIM / REMARKS
		CW	HW	WASTE	VENT	TRAP				
WC-1	WATER CLOSET – FLOOR MOUNT – ADA	1/2"	---	3"	2"	---	KOHLER	2"	WHITE	ELONGATED BOWL, COVER, SPLIT RIM SEAT
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 516 WFHDF WITH METAL GRID STRAINER, CONCEALED ARM SUPPORTS, WALL CARRIER FOR ADA HEIGHT, INSULATE TRAP AND HW SUPPLY
SK-1	SINK – EXAM	1/2"	1/2"	2"	1-1/2"	2"	PER FF&E PACKAGE		---	PER FF&E PACKAGE
SK-2	SINK – SPECIALTY PROCEDURE	1/2"	1/2"	2"	1-1/2"	2"	PER FF&E PACKAGE		---	PER FF&E PACKAGE
SK-3	SINK – BAR	1/2"	1/2"	2"	1-1/2"	1-1/2"	JUST	SL-1617-A-GR	STAINLESS	DELTA FAUCET 3579 WFHDF, RIGID
SK-4	SINK – KITCHEN	1/2"	1/2"	2"	1-1/2"	1-1/2"	JUST	SLX-1617-A-GR	STAINLESS	DELTA FAUCET 3579 WFHDF, RIGID
SK-5	SINK – DOUBLE COMPARTMENT – LAB	1/2"	1/2"	2"	1-1/2"	2"	JUST	DL-1829-A-GR	STAINLESS	DELTA FAUCET 711-WFHDF, HAWS 7610 EMERGENCY EYEWASH, SWING
SK-6	SINK	1/2"	1/2"	2"	1-1/2"	2"	PER DENTAL EQUIPMENT SUPPLIER		STAINLESS	PER DENTAL EQUIPMENT SUPPLIER
SK-7	SINK – LAUNDRY	1/2"	1/2"	2"	1-1/2"	2"	FIAT	FL-1	WHITE	FIAT FAUCET A-1
SK-8	SINK – SERVICE	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, 889-CC MOP HANGER
DS-1	SINK – DENTAL	1/2"	1/2"	3"	2"	3"	PER DENTAL EQUIPMENT SUPPLIER		STAINLESS	PER DENTAL EQUIPMENT SUPPLIER
SH-1	SHOWER – ADA	1/2"	1/2"	2"	1-1/2"	2"	FIAT	3636.01F	WHITE	RPW1111HDF, 60" FLEX HOSE, ADJUSTABLE WALL BRACKET, ADJUSTABLE MAXIMUM TEMP., INTEGRAL CHECK STOPS, PRESSURE BALANCED, VACUUM BREAKER
SV-1	SHOWER VALVE	1/2"	1/2"	---	---	---	DELTA	1305-WSHDF	---	RPW1111HDF, 60" FLEX HOSE, ADJUSTABLE WALL BRACKET, ADJUSTABLE MAXIMUM TEMP., INTEGRAL CHECK STOPS, PRESSURE BALANCED, VACUUM BREAKER
DF-1	DRINKING FOUNTAIN – SINGLE – ADA	1/2"	---	1-1/2"	1-1/2"	1-1/4"	HAWS	1109	STAINLESS	FRONT PUSH BUTTON, 6800 SUPPORT CARRIER, 6700 MOUNTING PLATE
WB-1	WASHER BOX	3/4"	3/4"	2"	1-1/2"	2"	GUY GRAY	T200	---	DRAIN ADAPTOR FOR DWV COPPER
FD-1	FLOOR DRAIN	---	---	2"	1-1/2"	2"	J.R. SMITH	2010-WF	---	ROUND TOP, TRAP PRIMER CONNECTION
FD-2	FLOOR DRAIN	---	---	2"	1-1/2"	2"	J.R. SMITH	DX-2005	---	ROUND TOP, TRAP PRIMER CONNECTION
HB-1	HOSE BIBB – FROST PROOF	3/4"	---	---	---	---	WOODFORD	MODEL 65	---	WITH TEE HANDLE, VACUUM BREAKER

EXPANSION TANK SCHEDULE

SYMBOL	MFGR / MODEL	FUNCTION	FLUID	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	DIMENSIONS	MATERIAL	LABEL	REMARKS
ET-1	AMTROL / SX-40V	HYDRONIC EXPANSION	50% P.G.	20	11.3	15"ø x 32"	STEEL/BUTYL	---	---
ET-2	AMTROL / ST-12	DOMESTIC HW EXPANSION	WATER	4.4	3.2	11"ø x 15"	STEEL/BUTYL	IAPMO	APPROVED FOR POTABLE WATER USE

GLYCOL MAKE-UP TANK SCHEDULE

SYMBOL	MFGR / MODEL	FUNCTION	FLUID	CAPACITY (GALLONS)	DIMENSIONS	MATERIAL	REMARKS
GT-1	AXIOM / MF200	GLYCOL MAKE UP	50% P.G.	6.6	12"x12"x16"H	PLASTIC	LOW LEVEL ALARM, ELECTRIC CORD AND PLUG

TANK SCHEDULE

SYMBOL	MFGR / MODEL	FUNCTION	FLUID	CAPACITY (GALLONS)	DIMENSIONS	MATERIAL	LABEL	REMARKS
FOT-1	ACE TANK / AC00550U2K4	FUEL OIL STORAGE	F.O.	550	48"ø x 75"	STEEL	UL	DOUBLE WALL, ABOVE GROUND, SKID MOUNTED

HOT WATER GENERATOR SCHEDULE

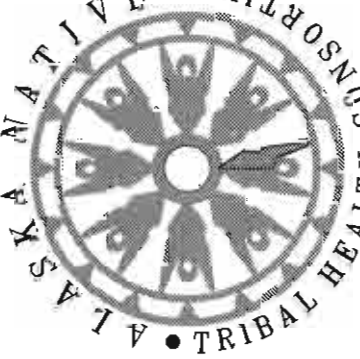
SYMBOL	MFG# / MODEL	DOMESTIC HOT WATER				HEATING MEDIUM					LABEL	REMARKS
		RECOVERY (GPH)	CAPACITY (GAL)	EWT	LWT	FLUID	FLOW (GPM)	WPD (FT HD)	EGT	LGT		
HWG-1	AMTROL / WHS-60ZC-DW	268	60	40°F	120°F	50% P.G	7	10'	180°F	150°F	---	DOUBLE WALL VENTED COIL

PUMP SCHEDULE

SYMBOL	MFGR / MODEL	SERVICE	FLUID	GPM	HEAD FT.	MOTOR DATA		REMARKS
						HP	VOLTS/PH	
CP-1	GRUNDFOS / UPS 40-160/2	PERIMETER HEAT	50% P.G.	28.4	25'	3/4	208/3	SET INITIALLY AT SPEED ONE
CP-2	GRUNDFOS / UPS 40-160/2	PERIMETER HEAT	50% P.G.	28.4	25'	3/4	208/3	BACKUP TO <u>CP-1</u> , SET INITIALLY AT SPEED ONE
CP-3	GRUNDFOS / UP 26-96F	HOT WATER GENERATOR	WATER	7	17'	1/12	120/1	----
CP-4	GRUNDFOS / UP 15-18 B7	HOT WATER CIRCULATION	WATER	2	4'	1/25	120/1	BRONZE CONSTRUCTION

[illegible]

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McGRATH SUB-REGIONAL HEALTH CENTER EQUIPMENT SCHEDULES LEGEND & ABBREVIATIONS		FILE NAME: 08167-
DATE: 04/20/09	SCALE: AS NOTED	LAYOUT NAME: LAYOUT
DRAWN BY: TCH		PROJ ENG: ALEC C. TH

SHEET
MO.1

SEQUENCE OF OPERATION

BOILERS (B-1 AND B-2)
BOILER CONTROLLER SHALL CONTROL BOILER CIRCULATION PUMPS AND FIRE BOILER TO MAINTAIN SUPPLY TEMPERATURE BETWEEN 180°F AND 150°F BASED ON OUTSIDE AIR TEMPERATURE. BOILER CONTROLLER SHALL SHUT DOWN BOILER AND LEAD SYSTEM CIRCULATION PUMP, CP-1 OR CP-2, ON OUTSIDE AIR TEMPERATURES OF 65°F (ADJUSTABLE) AND HIGHER. ON CALL FOR HEAT FROM THE HOT WATER GENERATOR CIRCULATION PUMP, CP-3 SHALL OPERATE, CONTROL VALVE SHALL OPEN AND BOILER SHALL FIRE TO MAINTAIN BOILER TEMPERATURE OF 180°F (ADJUSTABLE). REDUNDANT HIGH LIMIT CONTROLLER SHALL DISABLE BOILER ABOVE 210°F. AT LOW WATER CONDITION, LOW WATER CUT-OFF SHALL DISABLE BOILER, PROVIDE MANUAL RESET.

CIRCULATION PUMP (CP-1 AND CP-2)
CP-1 AND CP-2 LEAD DESIGNATION SHALL BE BY PUMPS MANUAL DISCONNECTS.

CIRCULATION PUMP (CP-3)
PUMP SHALL RUN AS INDICATED UNDER BOILER SEQUENCE.

CIRCULATION PUMP (CP-4)
PUMP SHALL RUN CONTINUOUSLY.

HOT WATER GENERATOR (HWG-1)
WATER HEATER'S AQUASTAT SHALL CALL FOR HEAT TO MAINTAIN TANK WATER TEMPERATURE OF 115°F (ADJUSTABLE). CONTROL VALVE SHALL OPEN AND CIRCULATION PUMP, CP-3, SHALL OPERATE. COORDINATE WITH BOILER CONTROL SEQUENCE.

BASEBOARD RADIATION (BB-1 AND BB-2)
ON SECOND STAGE OF HEAT ZONE THERMOSTAT SHALL CYCLE ZONE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.

CABINET UNIT HEATERS (CUH-1 AND CUH-2)
THERMOSTAT SHALL CYCLE BLOWER TO MAINTAIN SPACE TEMPERATURE.

UNIT HEATER (UH-1, UH-2 AND UH-3)
THERMOSTAT SHALL CYCLE BLOWER TO MAINTAIN SPACE TEMPERATURE.

EXHAUST FAN (EF-1, EF-2, EF-3, EF-4 AND EF-6)
ON-OFF CONTROL VIA WALL MOUNTED SWITCH.

EXHAUST FAN (EF-5 AND EF-7)
ON TEMPERATURE RISE ABOVE LINE VOLTAGE THERMOSTAT SETPOINT (ADJUSTABLE) FAN SHALL OPERATE.

EXHAUST FAN (EF-9)
ON TEMPERATURE RISE ABOVE LINE VOLTAGE THERMOSTAT SETPOINT (ADJUSTABLE) FAN SHALL OPERATE AND VENTILATION OPENING CONTROL DAMPER SHALL OPEN.

EXHAUST FAN (EF-8)
ON-OFF CONTROL VIA HUMDISTAT. ON HUMIDITY RISE ABOVE SETPOINT (ADJUSTABLE) FAN SHALL OPERATE.

HEAT RECOVERY VENTILATOR (HRV-1)
UNIT SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS, BASED ON 7-DAY, 24-HOUR PROGRAM AS DETERMINED BY OWNER. UNIT MOUNTED ELECTRONIC CONTROLLER SHALL CONTROL FAN SPEED. HUMIDISTAT SHALL INCREASE SPEED AUTOMATICALLY AS REQUIRED TO MAINTAIN 50% RH. ELECTRONIC CONTROLLER SHALL AUTOMATICALLY ENGAGE DEFROST CYCLE AS REQUIRED TO MAINTAIN HEAT TRANSFER COIL FROST FREE. REMOTE DIGITAL ELECTRONIC TIMERS SHALL ENGAGE HRV IF UNIT IS OFF, OR BOOST HRV TO HIGH SPEED IF UNIT IS ON, FOR 20-MINUTE TIME DURATION.

DUCT COIL (DC-1)
THREE WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN DUCT SUPPLY AIR TEMPERATURE (65°F ADJUSTABLE). PROVIDE CONTACTS ON VALVE SO THAT ON GREATER THAN 10% OPEN A CALL FOR HEAT IS PROVIDED TO THE BOILER.

BOILER SCHEDULE

SYMBOL	MFGR / MODEL	FLUID	FUEL	GROSS INPUT (MBH)	GROSS IBR OUTPUT (MBH)	BURNER		LABEL	REMARKS
						HP	VOLTS/PH		
B-1	ENERGY KINETICS / EK-2 FRONTIER	50% P.G.	OIL	196	175.5	FR	120/1	UL	30 PSI RELIEF VALVE, SWING AWAY BURNER DOOR
B-2	ENERGY KINETICS / EK-2 FRONTIER	50% P.G.	OIL	196	175.5	FR	120/1	UL	30 PSI RELIEF VALVE, SWING AWAY BURNER DOOR

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	TITUS	PER MFGR	415	<0.12	<700	55°F	70°F	0.5	50% P.G.	180°F	150°F	<1	HEIGHT NOT TO EXCEED ADJACENT DUCT HEIGHT

BASEBOARD RADIATION SCHEDULE

SYMBOL	MFGR / MODEL	OUTPUT (BTU/LF)	FLUID	EGT	LGT	TUBE SIZE	ELEMENT FIN SIZE	FIN PER FOOT	FIN THICKNESS	NUMBER OF TIERS	MOUNTING HEIGHT	ENCLOSURE THICKNESS	REMARKS
BB-1	STERLING / JV14B-S	1,120	50% P.G.	180°F	160°F	3/4"	4-1/4" X 3-5/8"	50	0.020"	1	18"	16 GAUGE	SLOPE TOP ENCLOSURE
BB-2	STERLING / C3/4-435	980	50% P.G.	180°F	160°F	3/4"	4-1/4" X 3-5/8"	50	0.020"	1	---	---	BARE ELEMENT

UNIT HEATER SCHEDULE

SYMBOL	MFGR / MODEL	CAPACITY MBH	GPM	FLUID	EGT	LGT	WPD FT HD	CFM	MOTOR DATA		REMARKS
									HP	VOLTS/PH	
UH-1	MODINE / HC-47	22.7	3.2	50% P.G.	180°F	160°F	<1'	730	1/12	120/1	----
UH-2	MODINE / HC-18	9.2	1.3	50% P.G.	180°F	160°F	<1'	340	1/60	120/1	----
UH-3	MODINE / HC-18	9.2	1.3	50% P.G.	180°F	160°F	<1'	340	1/60	120/1	----
CUH-1	MODINE / CW-03	16.2	2.2	50% P.G.	180°F	160°F	<1'	330	1/30	120/1	----
CUH-2	MODINE / CW-03	16.2	2.2	50% P.G.	180°F	160°F	<1'	330	1/30	120/1	----

AIR SEPARATOR SCHEDULE

SYMBOL	MFGR / MODEL	FLUID	GPM	WPD (FT. HD)	INLET/OUTLET SIZE	DIMENSIONS	REMARKS
AS-1	SPIROTHERM / VJR 200TM	50% P.G.	34.9	<3'	2"	10.8"H x 4.0"ø	----

HEAT RECOVERY VENTILATOR SCHEDULE

SYMBOL	MFGR / MODEL	AIRFLOW (CFM)	TSP @ HIGH SPEED (IN. WG)	ELEC. DATA		REMARKS
				WATTS	VOLTS/PH	
HRV-1	LIFEBREATH / 500 DCS	415	0.5	610	120/1	BALANCE DAMPERS/AIR FLOW STATION, PROGRAMMABLE CONTROLLER WITH DEHUMIDISTAT, TIME CLOCK, REMOTE DIGITAL TIMER

FAN SCHEDULE

SYMBOL	MFGR / MODEL	TYPE	SERVICE	CFM	TSP (IN. WG)	MOTOR DATA		DRIVE	SONES	REMARKS
						AMPS	VOLTS/PH			
EF-1	GREENHECK / SP-B90	CENTRIFUGAL	TOILET EXHAUST	75	0.25	0.65	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-2	GREENHECK / SP-B90	CENTRIFUGAL	TOILET EXHAUST	75	0.25	0.65	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-3	GREENHECK / SP-B90	CENTRIFUGAL	TOILET EXHAUST	75	0.25	0.65	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-4	GREENHECK / SP-B90	CENTRIFUGAL	TOILET EXHAUST	75	0.25	0.65	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-5	GREENHECK / SP-B200	CENTRIFUGAL	MORGUE EXHAUST	166	0.25	2.2	120/1	DIRECT	<6	WALL CAP, BACKDRAFT DAMPER
EF-6	GREENHECK / SP-B90	CENTRIFUGAL	LAB EXHAUST	75	0.25	0.65	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-7	GREENHECK / SP-B150	CENTRIFUGAL	TELE/ELECTRICAL COOLING	150	0.25	1.7	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-8	GREENHECK / SP-B150	CENTRIFUGAL	CRAWLSPACE EXHAUST	150	0.25	1.7	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER
EF-9	GREENHECK / CSP-A510	CENTRIFUGAL	MECHANICAL ROOM COOLING	405	0.25	3.11	120/1	DIRECT	<5	WALL CAP, BACKDRAFT DAMPER

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	6.25"ø	5"ø"	4-WAY	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
SB	LIFEBREATH / TECHGRILLE	DIFFUSER	S/A	POLYPROPYLENE	WHITE	7.5"ø	6"ø"	4-WAY	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
SC	TITUS / CT-PP-0	GRILLE	----	ALUMINUM	WHITE	4"WIDE	----	----	LENGHT TO MATCH CABINET LENGTH COORDINATE WITH ARCHITECTURAL
EA	LIFEBREATH / TECHGRILLE	DIFFUSER	E/A	POLYPROPYLENE	WHITE	6.25"ø	5"ø"	4-WAY	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
EB	LIFEBREATH / TECHGRILLE	DIFFUSER	E/A	POLYPROPYLENE	WHITE	7.5"ø	6"ø"	4-WAY	ROUND FACE, AIRFLOW ADJUSTABLE BY POSITIONING CENTER CONE
TA	TITUS / CT-700L	GRILLE	T/A	ALUMINUM	WHITE	18/6	----	----	WITH AUXILIARY FRAME, MOUNT LOW IN DOOR



INIT.	DATE	REVISIONS					



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McGRATH SUB-REGIONAL HEALTH CENTER
EQUIPMENT SCHEDULES
FILE NAME: 08167-M02
LAYOUT NAME: LAYOUT1
PROJ ENG: ALEC C. THOMSON, P.E.
DATE: 04/20/09
SCALE: AS NOTED
DRAWN BY: TCH

REQUEST FOR INTERPRETATION

McGrath Health Clinic
(PROJECT)

RFI #:14

M1.1

August 12, 2010

REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: Sheet M1.1 shows both floor and wall clean outs. Some of the wall clean outs are shown in 2 x 4 walls which will not allow enough room. Can we option 1 locate all clean outs in the crawl space or option 2 change to all floor clean outs?

Dave Brown

(REQUESTED BY)

(DATE) 8-13-10
RESPONSE: We have no objection to changing wall clean outs in 2 x 4 walls to floor clean outs as suggested above. Relocate 4" clean out along grids 3.5 and E.5 to 111 Mechanical. Relocate 2" clean out along grids 3.5 and E.5 to 111 Mechanical. Relocate 3" clean out along grids 6 and E.5 to 110 Corridor. Relocate 3" clean out along grids 7.5 and D to 143 Storage. Relocate 3" clean out along grids 8 and B to 138 Toilet.

RESPONSE NEEDED BY: 8-13

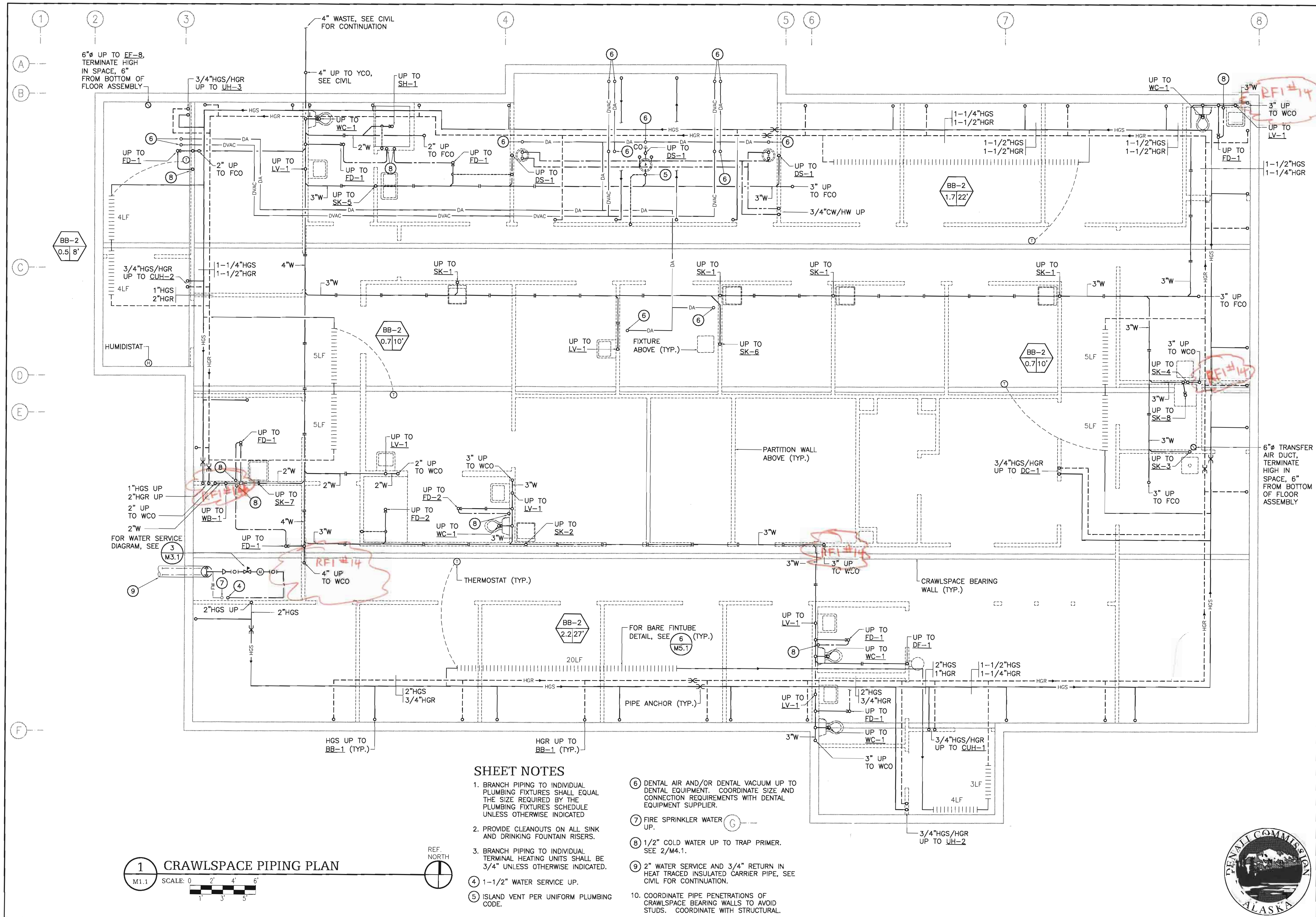
Alec C. Thomson, P.E., HZA Eng.
(ARCHITECT / ENGINEER SIGNATURE)

ACTION REQUIRED BY:

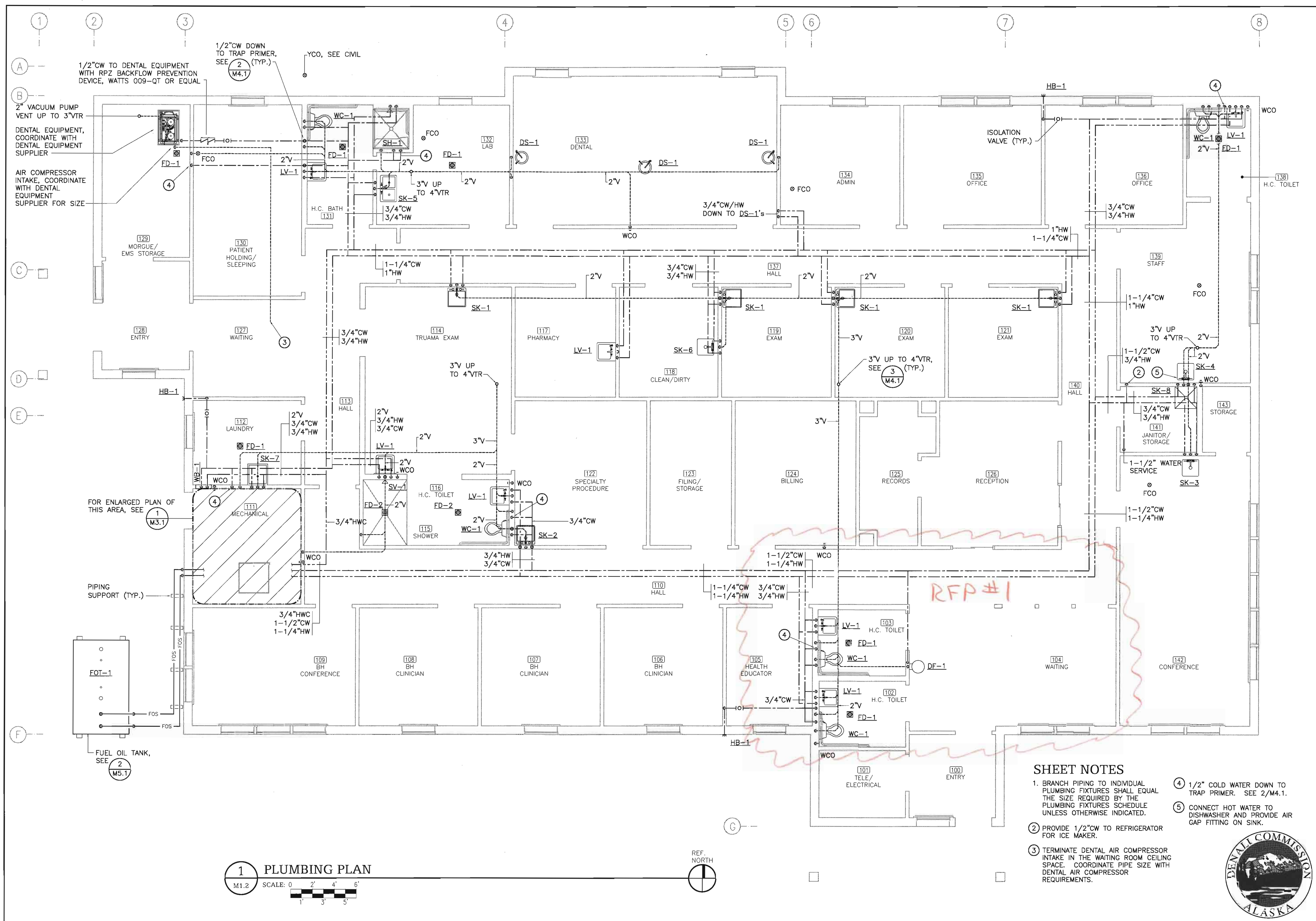
(DATE)

RESOLUTION:

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.



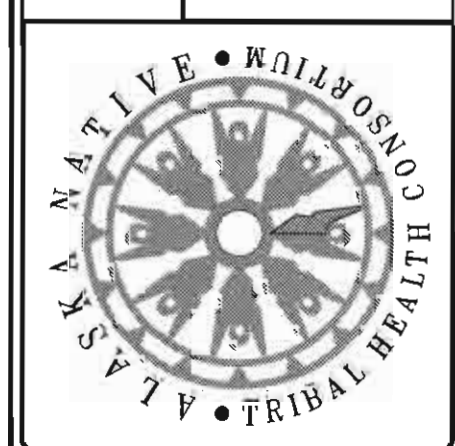
INT.	
REVISIONS	
DATE	
	
ALASKA NATIVE TRIBAL HEALTH CONSORTIUM DIVISION OF ENVIRONMENTAL HEALTH AND ENGINEERING 1901 SOUTH BRAGAW STREET, SUITE 200 ANCHORAGE, ALASKA, 99508-3440 (907) 729-3600	
	
McGRATH SUB-REGIONAL HEALTH CENTER CRAWLSPACE PLUMBING PLAN	
FILE NAME: 08167-M11 LAYOUT NAME: LAYOUT1 SCALE: AS NOTED DRAWN BY: TCH	DATE: 04/20/09 SHEET: M1.1 3 OF 8M

[illegible]

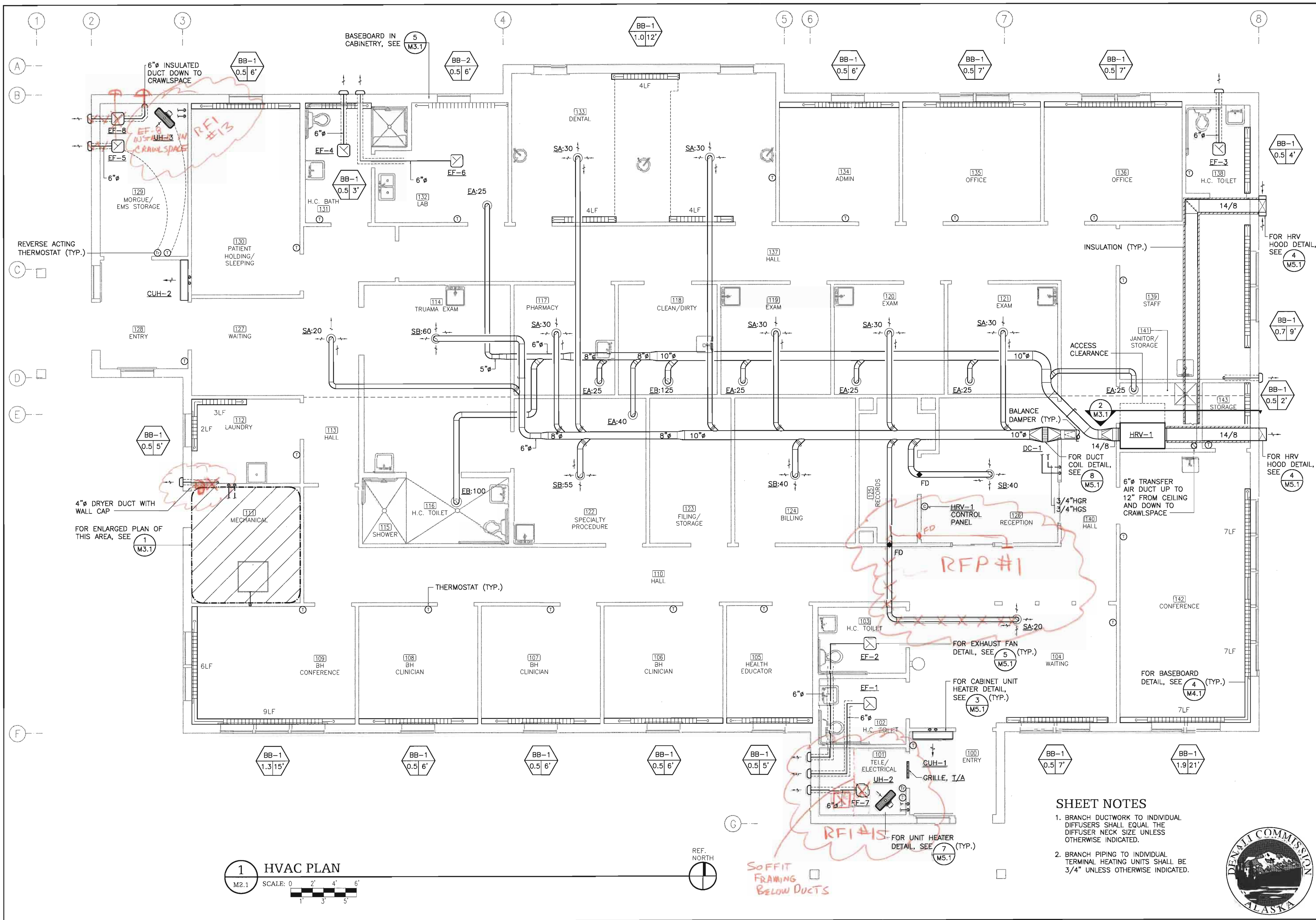
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<p align="center">McGRATH SUB-REGIONAL HEALTH CENTER</p> <p align="center">PLUMBING PLAN</p>		DATE: 04/20/09 SCALE: AS NOTED DRAWN BY: TCH	FILE NAME: 08167-M12 LAYOUT NAME: LAYOUT1 PROJ ENG: ALEC C. THOMSON, P.E.
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REVISIONS	
DATE	DESCRIPTION

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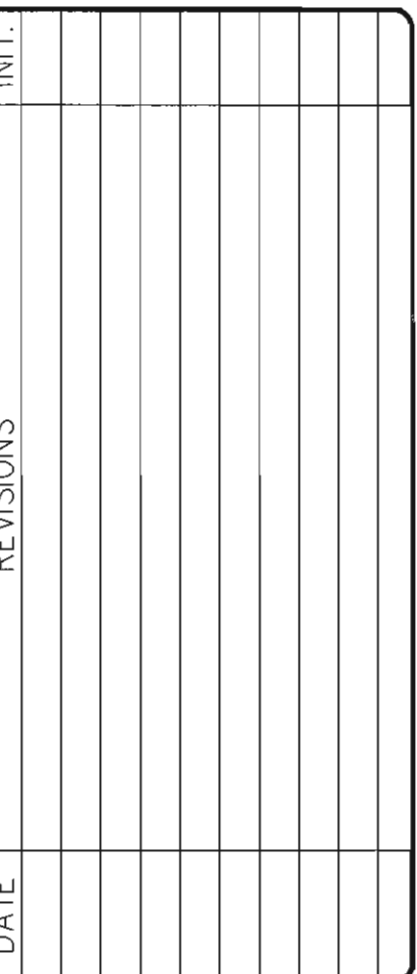
McGRATH SUB-REGIONAL HEALTH CENTER

HVAC PLAN

FILE NAME: 08167-M31
LAYOUT NAME: LAYOUT1
PROJ ENG: ALEC C. THOMSON, P.E.
DATE: 04/20/09
SCALE: AS NOTED
DRAWN BY: TCH

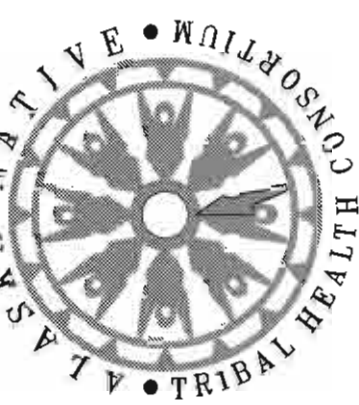
SHEET
M2.1

5 OF 8M



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**MCGRATH SUB-REGIONAL
HEALTH CENTER**
MECHANICAL DIAGRAMS AND DETAILS

FILE NAME: 00107-M01
LAYOUT NAME: LAYOUT1
PROJ ENG: ALEC C. THOMSON, P.E.
DATE: 08/20/09
SCALE: AS NOTED
DRAWN BY: TCH

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic PROJECT RFI #:21

M5.1 detail 3 November 2, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: detail 3 on sheet M 5.1 does not show balance valves on the CUH's
however the equipment schedule calls out flows for these. Are balance valves required?

Greg Waisanen (REQUESTED BY)

November 3, 2010
RESPONSE:

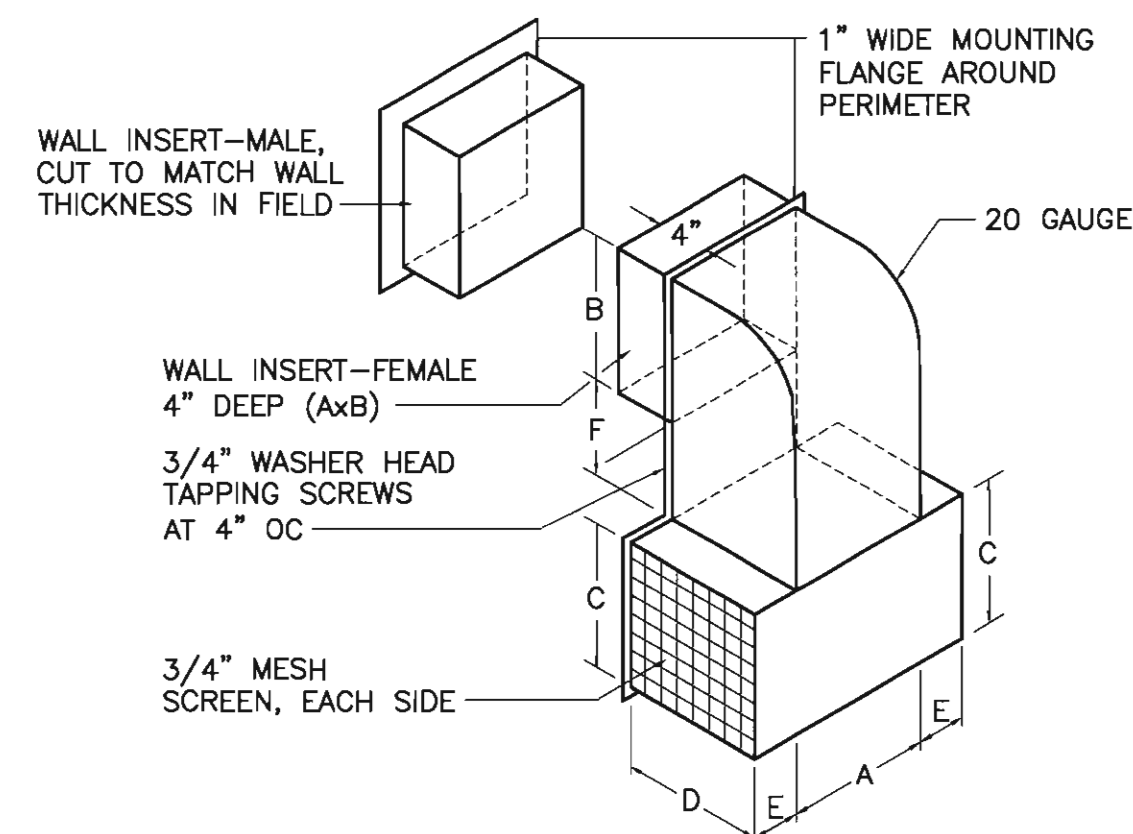
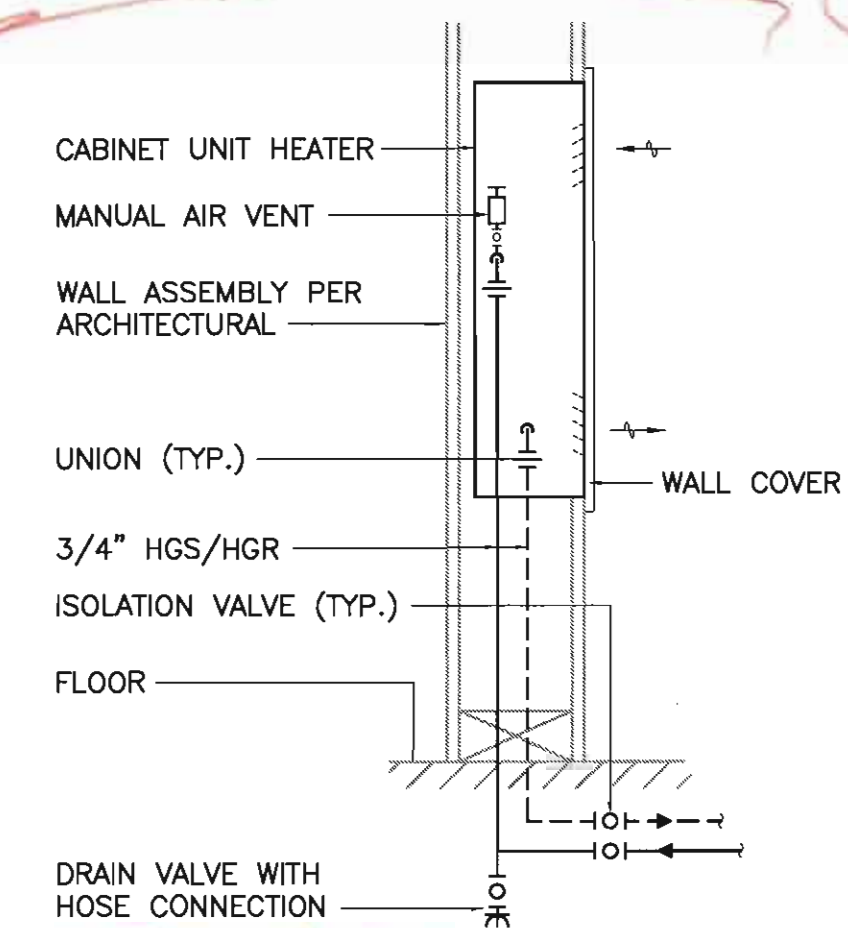
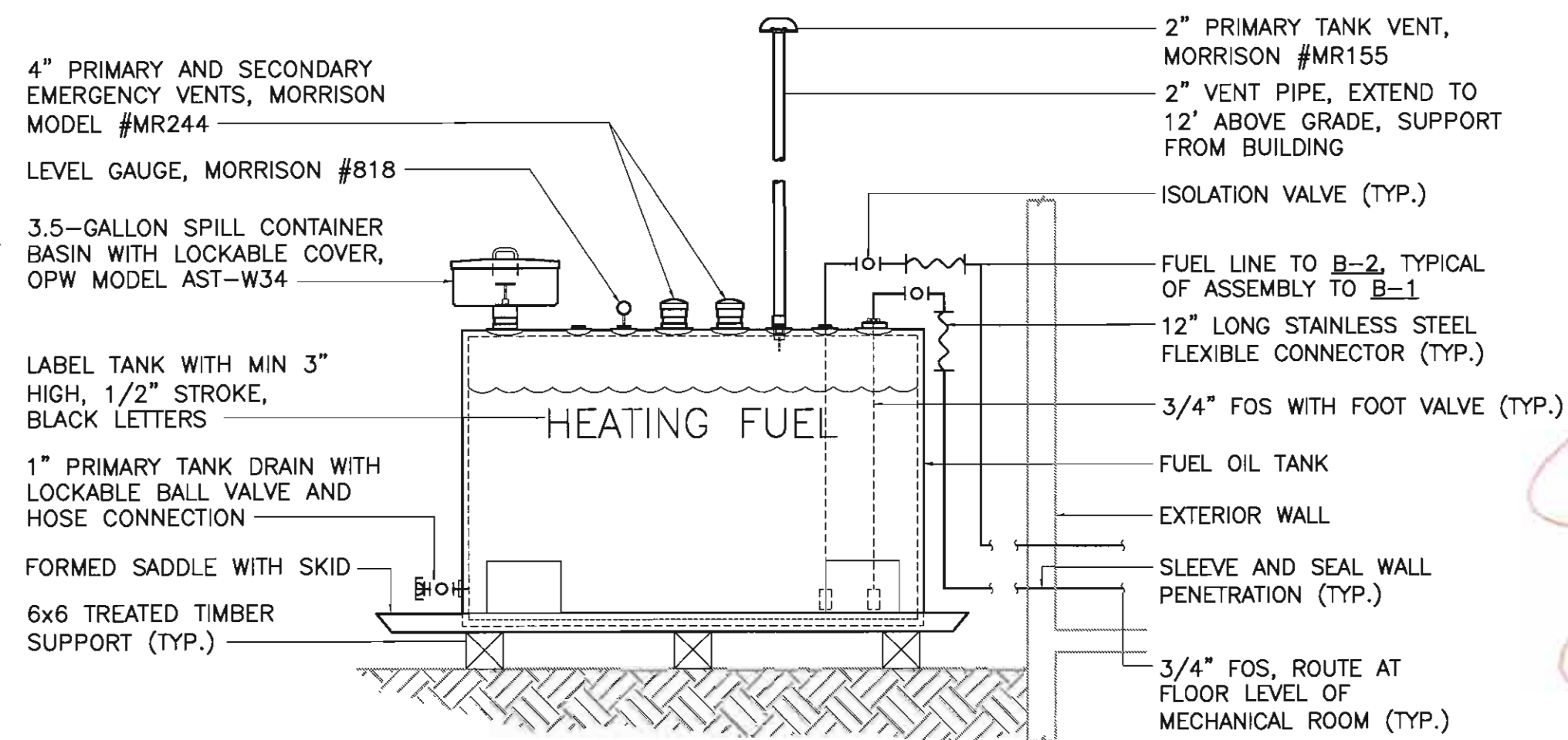
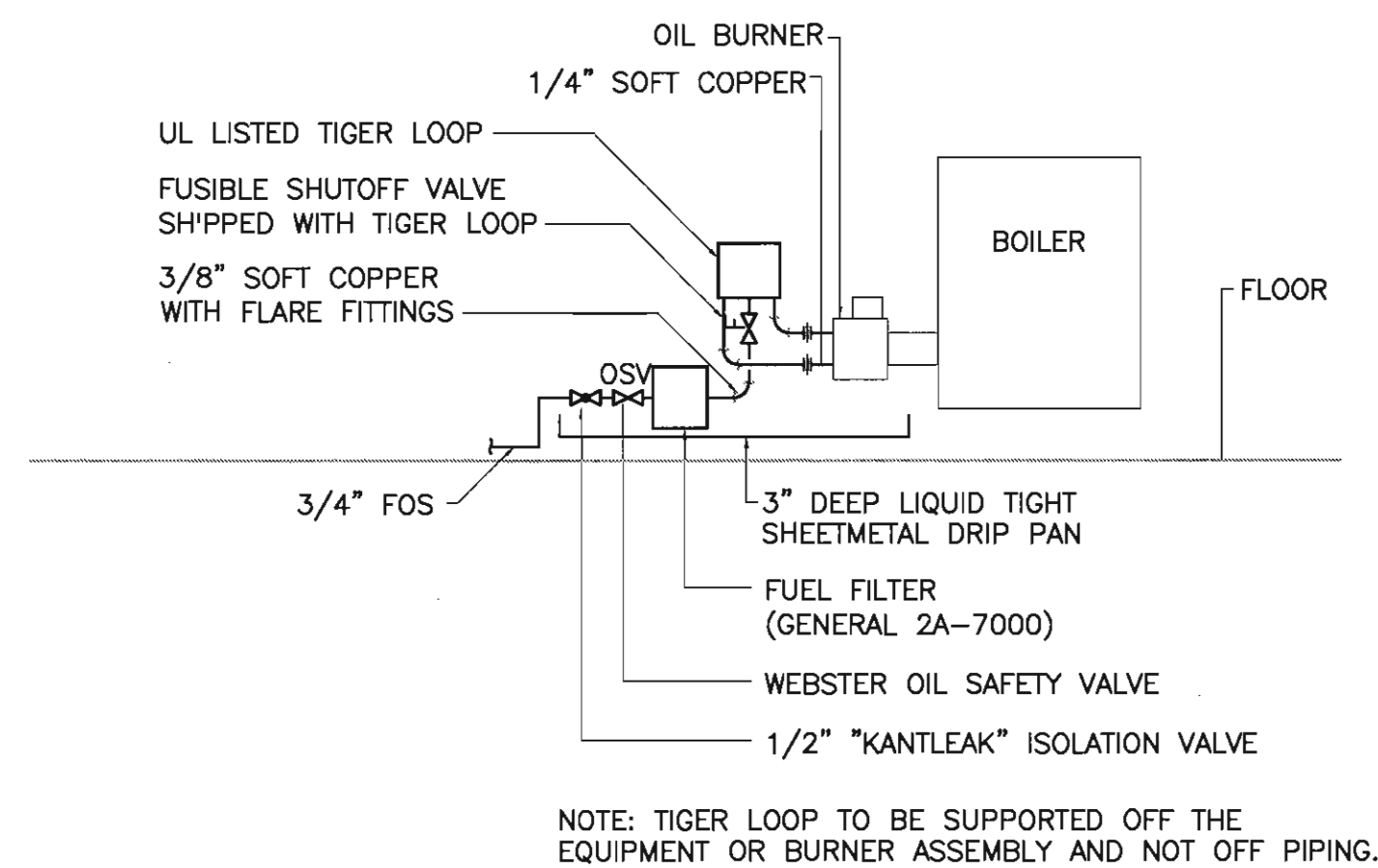
Per 15120 3.01.0 a balance valve is required. Install balance valve upstream of the isolation
valve on the return piping.

Alec C. Thomson, P.E.
RESPONSE NEEDED BY: 11-2-10 (ARCHITECT / ENGINEER SIGNATURE)

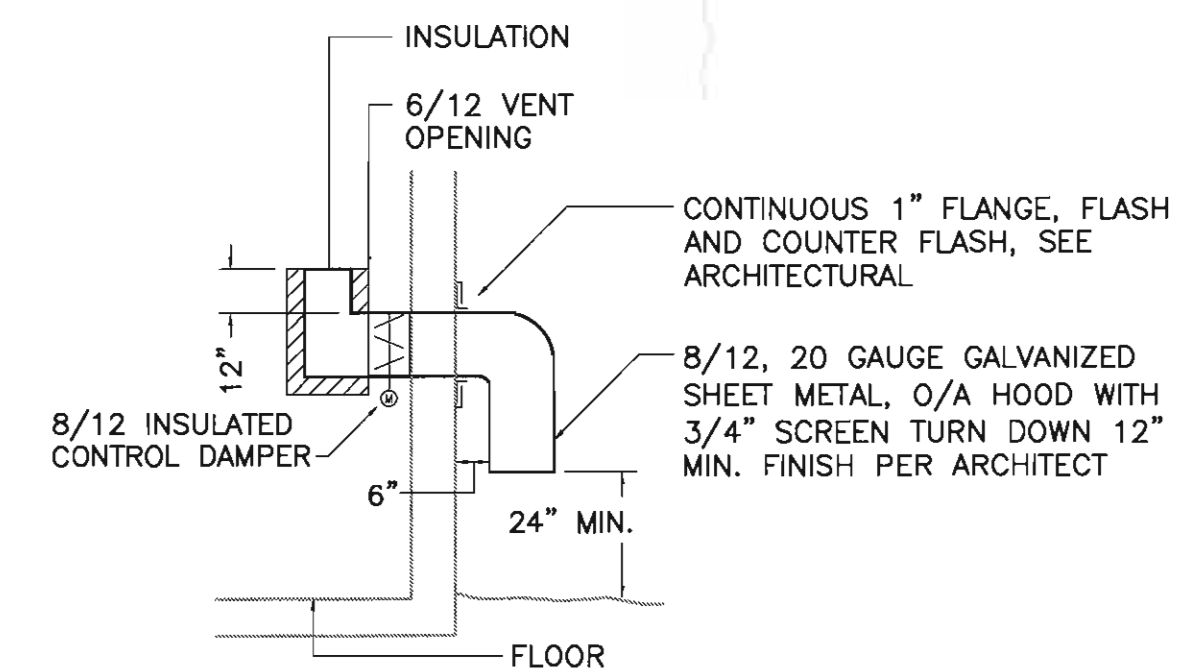
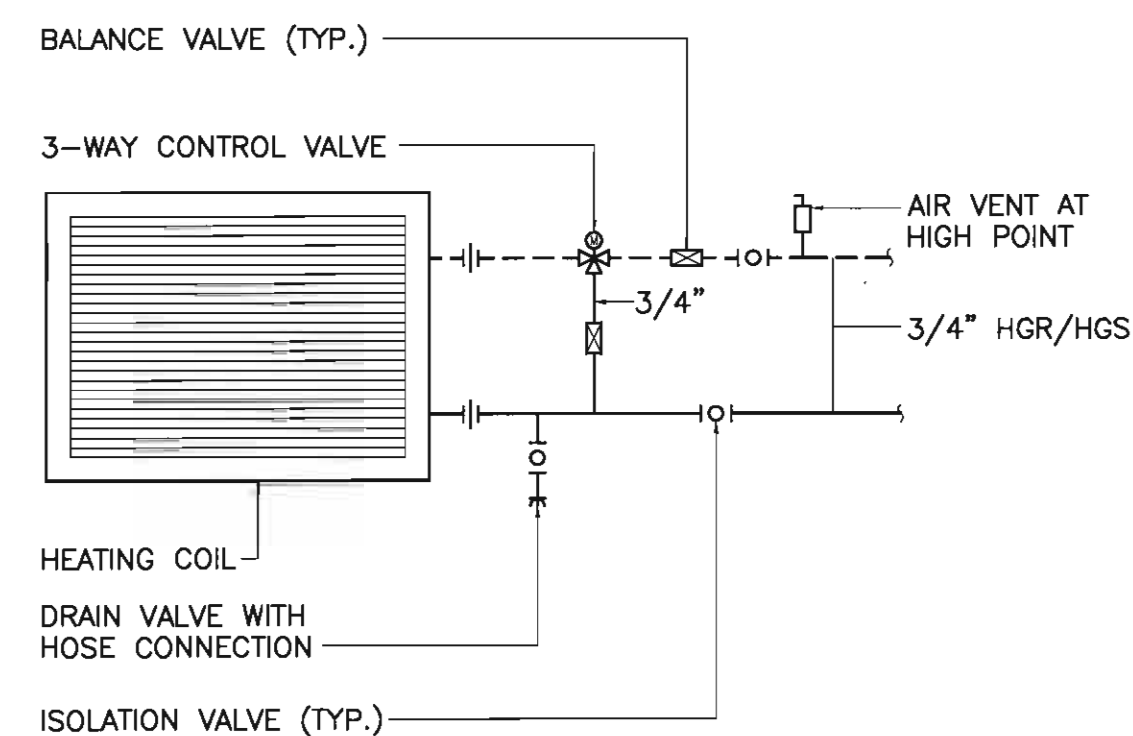
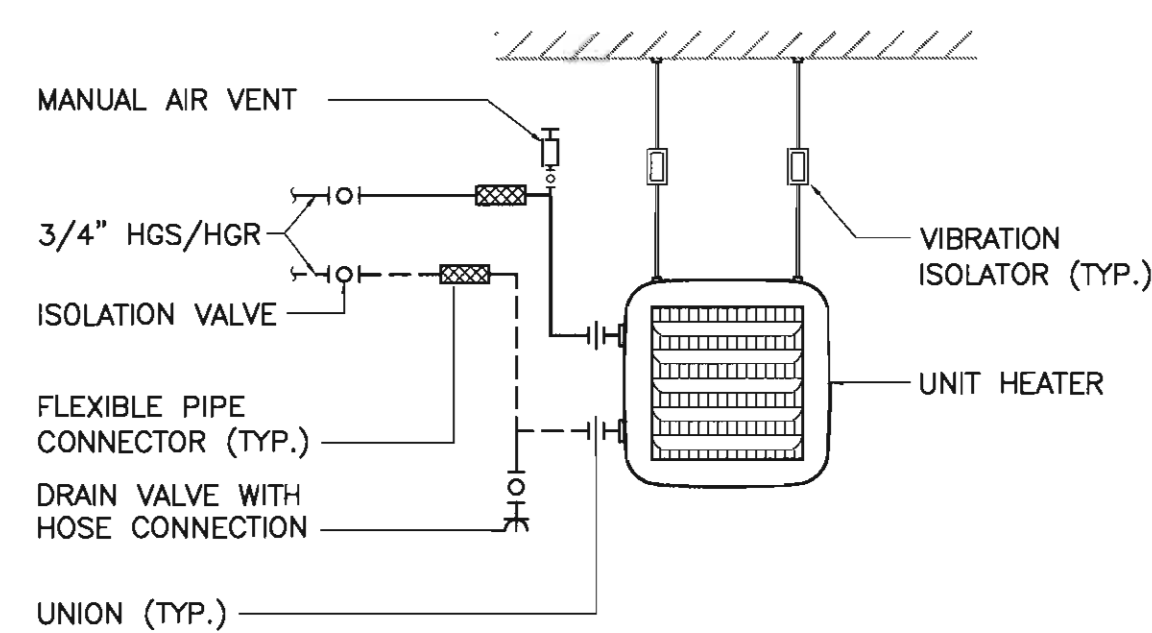
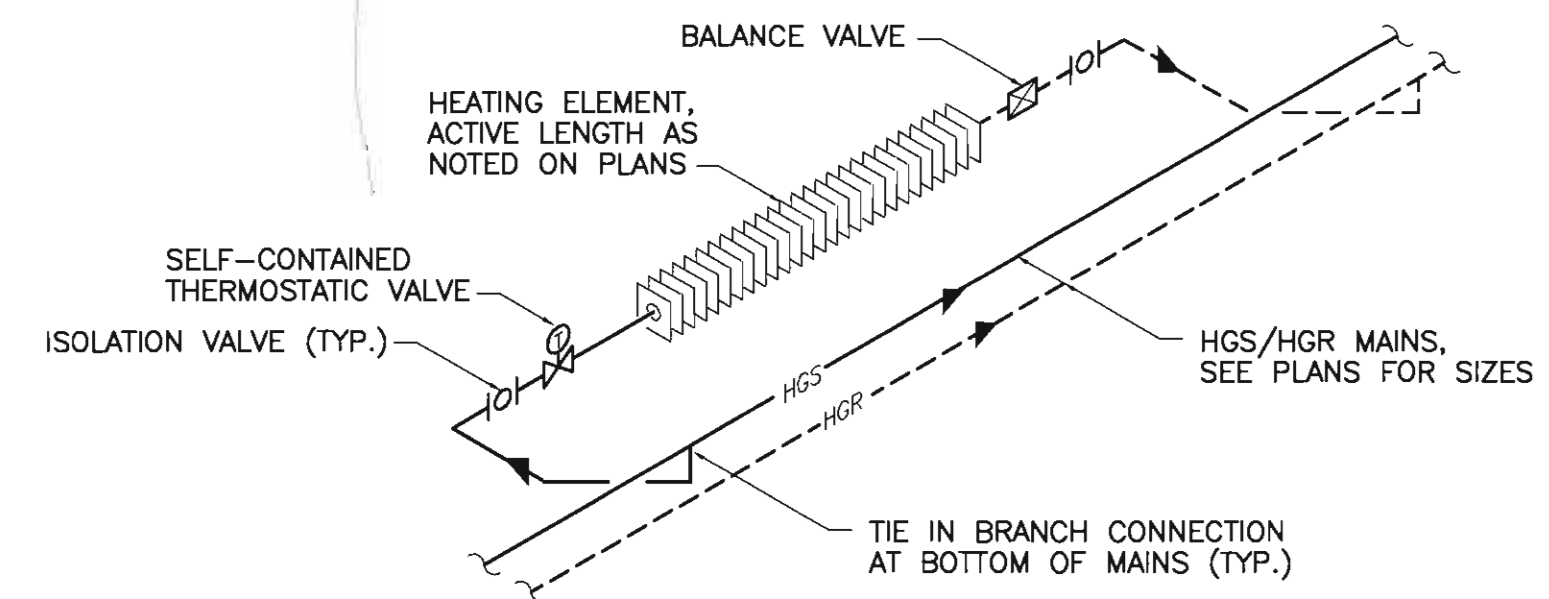
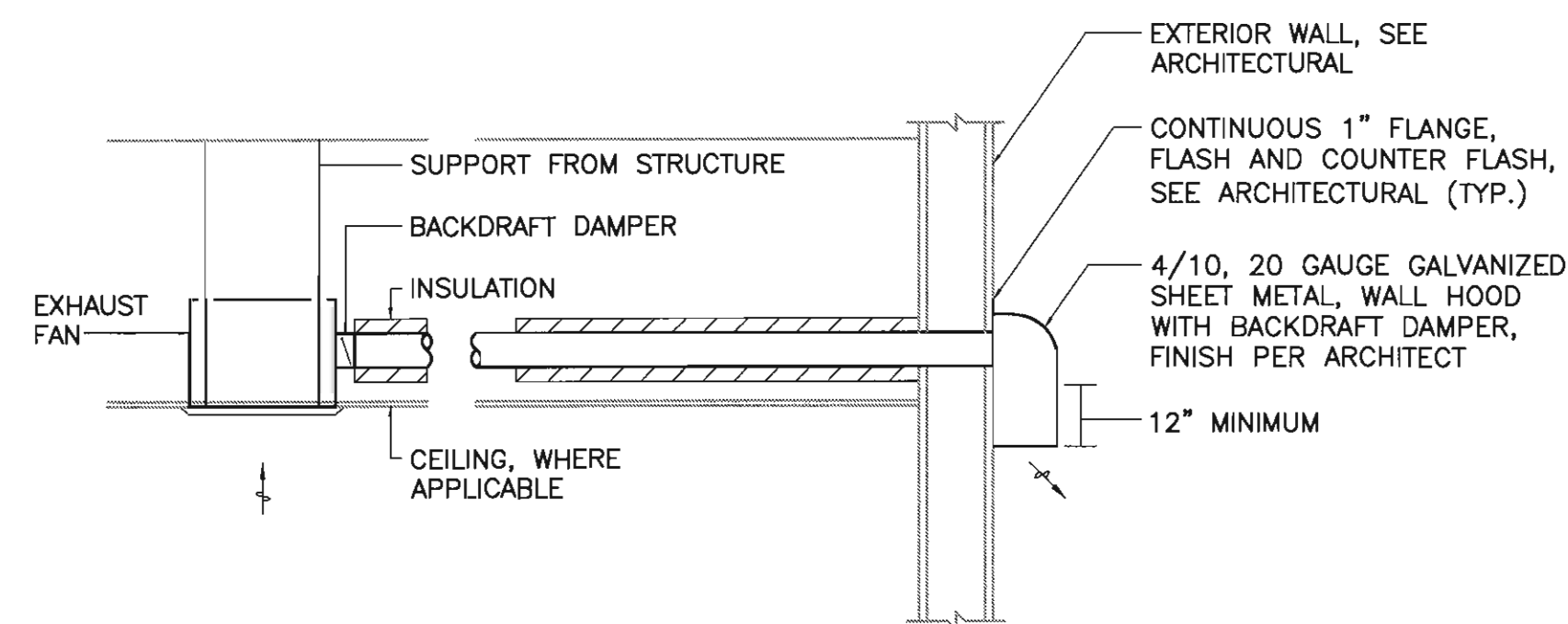
11-3-10
ACTION REQUIRED BY: (DATE)

RESOLUTION:

Notification must be given in accordance with the contract documents if any architect / engineer
response / description causes any change to contract documents.



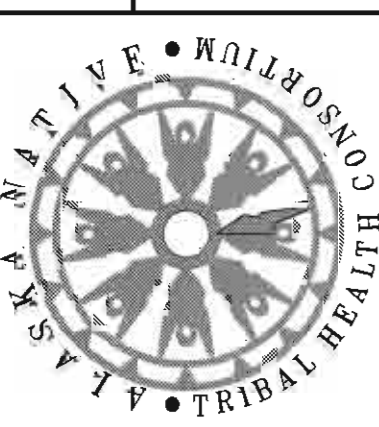
LOCATION	SERVICE	A	B	C	D	E	F
GABLE END	HRV INTAKE	14"	8"	7"	8"	6"	8"
GABLE END	HRV EXHAUST	14"	8"	N/A*	8"	N/A*	8"

[illegible]

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McGRATH SUB—REGIONAL HEALTH CENTER MECHANICAL DETAILS		DATE: 04/20/09	FILE NAME: 08167-M71
		SCALE: AS NOTED	LAYOUT NAME: LAYOUT1
		DRAWN BY: TCH	PROJ ENG: ALEC C. THOMSON, P.E.



[illegible]

	LIGHT FIXTURE – SURFACE WALL MOUNTED		PANEL
	LIGHT FIXTURE – SURFACE MOUNTED		DUPLEX RECEPTACLE
	FLUORESCENT FIXTURE – RECESS MOUNTED 2'x4'		GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
	FLUORESCENT FIXTURE – SURFACE MOUNTED 1'x4'		QUADRAPLEX RECEPTACLE
	FLUORESCENT FIXTURE – RECESS MOUNTED 1'x4'		# INDICATES SUPPLY BRANCH CIRCUIT
	FLUORESCENT FIXTURE – RECESS MOUNTED 2'x2'		SPECIAL PURPOSE RECEPTACLE
	FIXTURE WITH EMERGENCY BATTERY BACK-UP SEE NOTE 4 ON LIGHTING PLANS		DUPLEX RECEPTACLE-SWITCHED
			JUNCTION BOX
	LIGHT FIXTURE – SURFACE MOUNTED		FLOOR MOUNTED DEVICE (DUPLEX REC. SHOWN)
	LIGHT FIXTURE – WALL MOUNTED		DISCONNECT SWITCH
	FLUORESCENT STRIP FIXTURE – SURFACE MOUNTED		FUSED DISCONNECT SWITCH
	FLUORESCENT FIXTURE – SURFACE MOUNTED 4'		COMBINATION MOTOR STARTER DISCONNECT
	EXIT LIGHT – CEILING MOUNTED		FRACTIONAL HP MOTOR SWITCH
	EXIT LIGHT – WALL MOUNTED		MOTOR
	SINGLE POLE SWITCH		TELECOMMUNICATION OUTLET
	LOWER CASE LETTER INDICATES SWITCHING CONTROL		FA SMOKE DETECTOR
	THREE WAY SWITCH AND FOUR WAY SWITCH		FA HEAT DETECTOR (FIXED TEMP. NOTED)
	OCCUPANCY SENSOR SWITCH		FA HORN STROBE
	PILOT LIGHT SWITCH		FA MANUAL PULL STATION
	LIGHTED TOGGLE SWITCH		BELL
	SPEED CONTROL SWITCH PROVIDED BY MECHANICAL		STROBE
	TIMER SWITCH		KEY PAD
	CONDUIT, CONCEALED		NIGHT LIGHT
	NUMBER AND SIZE OF WIRES (NO SLASHES = 3#12)		GROUND FAULT CIRCUIT INTERRUPTER
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)		FIXTURE WITH EMERGENCY BATTERY BACK UP
	SELF-CONTAINED EMERGENCY LIGHT		NOTE TAG (No. INDICATES NOTE)
	REMOTE HEAD ASSOCIATED W/ EMERGENCY LIGHT		FIXTURE IDENTIFICATION (LETTER INDICATES TYPE)
	INDICATES FIXTURE OR DEVICE CONNECTED TO GENERATOR STANDBY PANEL M		TELEVISION OUTLET
	ABOVE COUNTER – REFERENCE MOUNTING HEIGHT SCHEDULE ON THIS SHEET		SECURITY SYSTEM INTRUSION DETECTOR
	CEILING MOUNTED		FIRE SMOKE DAMPER
	WEATHERPROOF		TEMPERATURE PROBE
	FIRE ALARM CONTROL PANEL		CARBON DIOXIDE DETECTOR

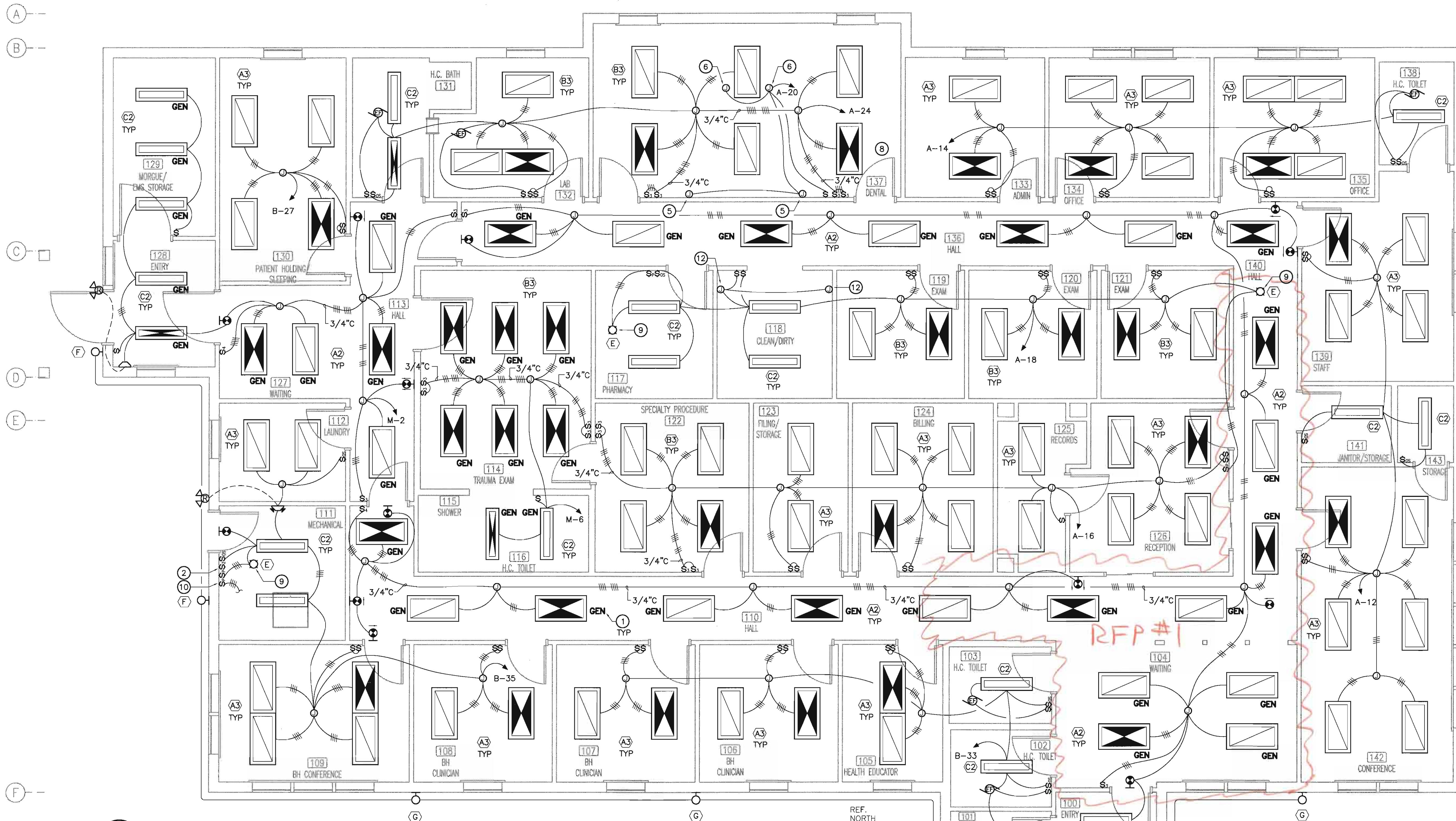
[illegible]

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"
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"

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



1. REFERENCE DRAWINGS AND SPECIFICATIONS FOR PROPOSED QUANTITY AND 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 IN COMPLIANCE WITH GOVERNING CODES INCLUDING ANY NECESSARY DEVICES AND DETECTORS NOT SHOWN IN THESE DRAWINGS SUCH AS DOOR HOLDOPENS, DETECTORS IN CRAWLSPACE, ATTIC OR ABOVE CEILING SPACES.
2. INSTALL TEMPERATURE SENSOR CONTROLLER IN MECHANICAL ROOM AND CONNECT ALARM CONTACTS TO FIRE ALARM PANEL FOR DIAL OUT ANNUNCIATION OF LOW TEMPERATURE CONDITION. FIELD LOCATE SENSING BULBS IN CRAWLSPACE.
3. PROVIDE ALL NECESSARY AUXILIARY CONTACTS, CONNECTIONS, ETC. TO PROVIDE A COMPLETE SYSTEM.



1 LIGHTING PLAN
E2.1 SCALE: 0' 2' 4' 6'

LIGHTING PLAN SHEET NOTES:

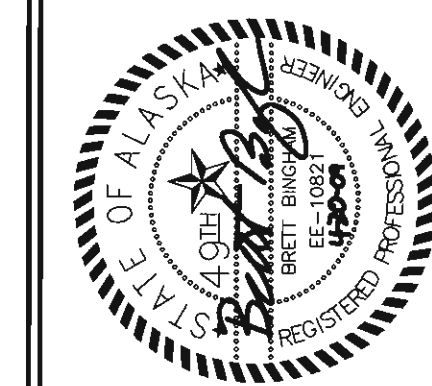
- ① "GEN" INDICATES FIXTURE OR DEVICE TO BE CONNECTED TO GENERATOR STANDBY PANEL M.
- ② ALL EXTERIOR LIGHTS TO BE PHOTOCELL CONTROLLED WITH SWITCH "Z" OVERRIDE OFF. SWITCH SHOWN LOCATED IN MECHANICAL ROOM. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- ③ FLUORESCENT FIXTURES IN ROOMS WITH 2 SWITCHES SHALL HAVE DUAL BALLASTS AND SWITCH INBOARD/OUTBOARD LAMPS SEPARATELY.
- ④ EMERGENCY LIGHT FIXTURES: DENOTES FIXTURE IS EQUIPPED WITH A BODINE B50 EMERGENCY BATTERY BALLAST CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHES. THE FIXTURE IS SWITCHED WITH THE LOCAL LIGHTING CIRCUIT AND ONLY OVERRIDES THE SWITCH UPON POWER FAILURE.
- ⑤ JUNCTION BOX FOR CONNECTION TO RECESSED X-RAY VIEWER (120V).
- ⑥ DENTAL OPERATING LIGHT: (120V) PROVIDE BACKING PER MANUFACTURER. FIELD ADJUST "B3" FIXTURES FOR PROPER CLEARANCES.
- ⑦ CONTRACTOR TO COORDINATE WORK WITH OWNER SUPPLIED FURNISHING, FIXTURES, EQUIPMENT AND DENTAL EQUIPMENT.
- ⑧ COORDINATE AND INSTALL ALL EQUIPMENT AND DEVICES RELATED TO DENTAL PER DENTAL PLANS.
- ⑨ FURNISH AND INSTALL ONE TYPE "E" FIXTURE IN ATTIC WITH PILOT LIGHT SWITCH ("ON" WHEN ENERGIZED) IN ROOM BELOW OR AS OTHERWISE SHOWN LOCATED ON MAIN FLOOR.
- ⑩ PILOT LIGHT SWITCH ("ON" WHEN ENERGIZED) FOR CONNECTION TO CRAWLSPACE LIGHTING. SEE E2.2.
- ⑪ THE EXTERIOR WALL SHALL NOT BE PENETRATED AND ALL CEILING PENETRATIONS SHALL HAVE SOLID BLOCK AND WEATHER TIGHT BOXES.
- ⑫ HARDWARE CONNECTION TO UNDERCOUNTER TASK LIGHTS SUPPLIED BY DENTAL. COORDINATE WITH AND REFERENCE DENTAL PLANS D-501 FOR LOCATIONS, HEIGHTS, AND REQUIREMENTS.



**McGRATH SUB-REGIONAL
HEALTH CENTER**
LIGHTING PLAN

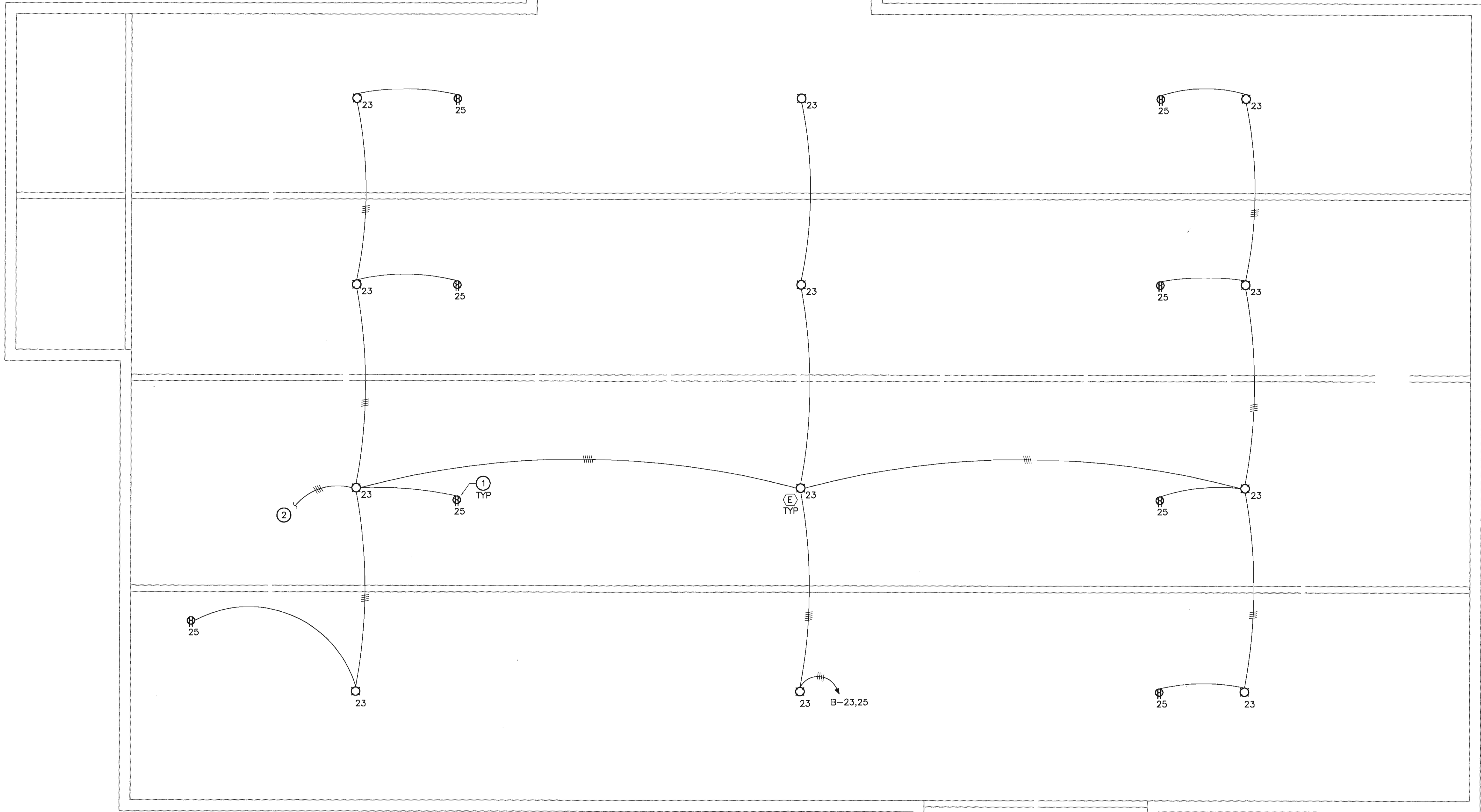
FILE NAME: 08167-E21
LAYOUT NAME: LAYOUT1
DATE: 04/20/09
SCALE: AS NOTED
DRAWN BY: EDA
PROJ. ENG: BRETT BINGHAM, P.E.

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DATE	REVISIONS

A
B
C
D
E
F



1 CRAWLSPACE LIGHTING AND POWER PLAN
E2.2 SCALE: 0 2' 4' 6'
1' 3' 5'

SHEET NOTES:

- 1 RECEPTACLES ARE TO BE UNSWITCHED.
2 CONNECT TO PILOT LIGHT SWITCH IN ROOM ABOVE FOR CONTROL OF LIGHTING.

AMENDMENT #4

2. Sheet E2.2 -Crawlspace Lighting and Power Plan: **ADD** junction box and disconnect in crawlspace along inside face of north foundation wall at Gridlines B and approximately 3.3 with homerun (1/2" conduit with 3#12AWG) to "M-23 via pilot light switch". **ADD** note symbol 3 adjacent to the new junction box and disconnect.
3. Sheet E2.2 -Crawlspace Lighting and Power Plan, Sheet Notes: **ADD** note 3; "Junction box and disconnect for branch circuit connection to civil arctic piping heat trace. Install heat trace and all required appurtenances per specification section 16123 to heat trace underground sewer arctic piping as shown and indicated in the civil documents. Coordinate with civil for exact location, lengths, and requirements. Access to junction boxes and heat trace shall be provided so that heat trace can be replaced without demolition of adjacent materials. Heat trace shall be connected to and controlled by a single pole pilot light switch to be located in the mechanical room. Provide identification at pilot light switch."



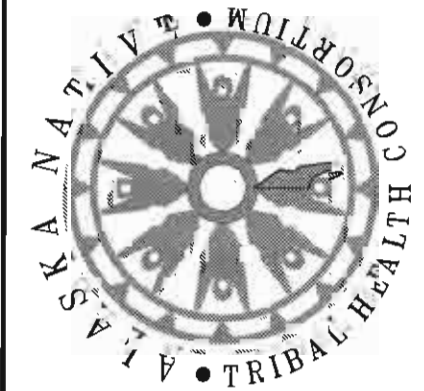
G



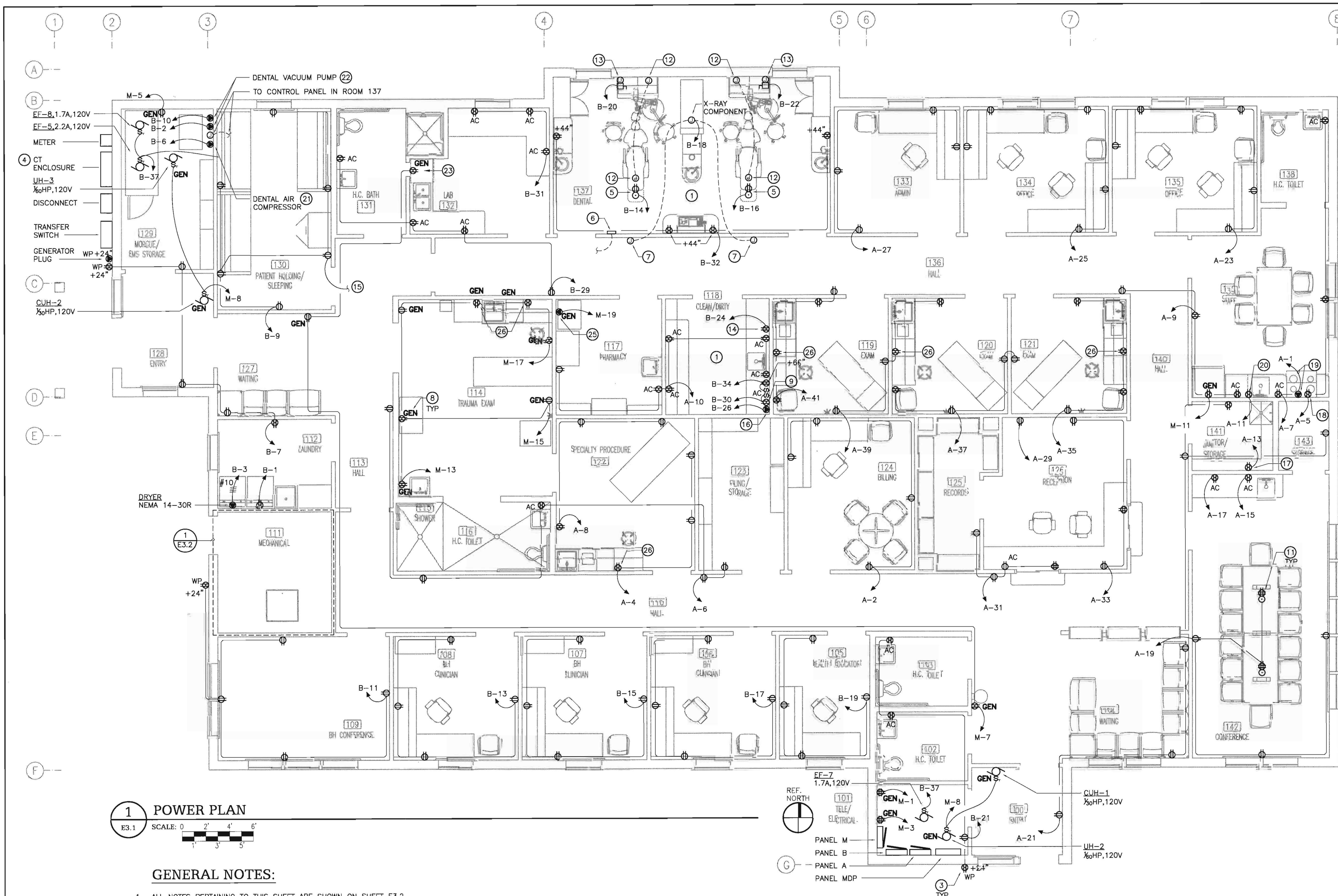
DATE	REVISIONS	INIT.



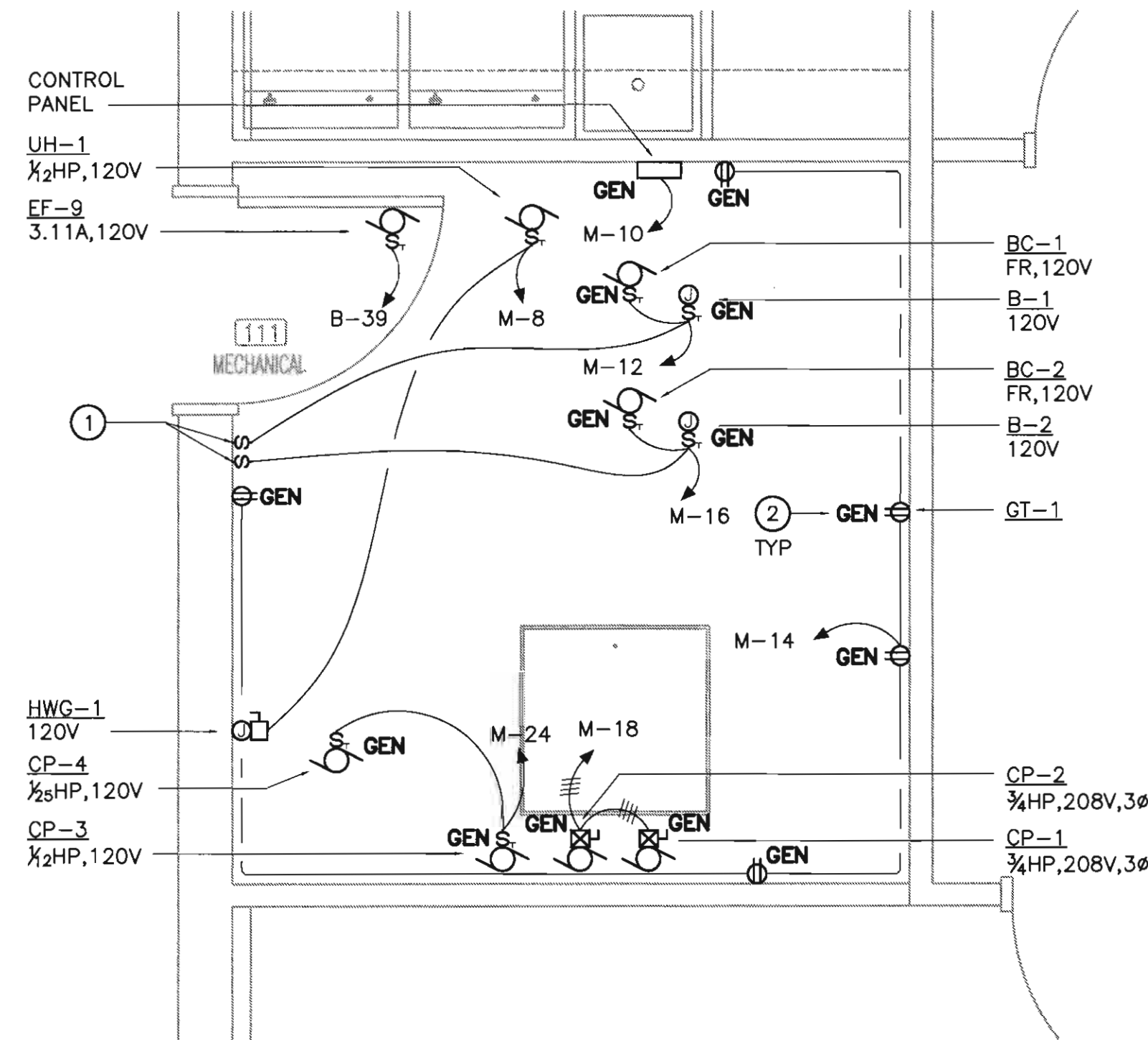
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(907) 729-3600



<div>McGRATH SUB—REGIONAL HEALTH CENTER</div> <div>CRAWLSPACE LIGHTING AND POWER PLAN</div>	FILE NAME:	08167-E22
	LAYOUT NAME:	LAYOUT1
	PROJ ENG:	BRETT BINGHAM, P.E.
	DATE:	04/20/09
	SCALE:	AS NOTED
	DRAWN BY:	EDA
SHEET E2.2		
4 OF 9E		



INITIALS	
REVISIONS	
DATE	
ALASKA NATIVE TRIBAL HEALTH CONSORTIUM McGrath SUB-REGIONAL HEALTH CENTER POWER PLAN	
FILE NAME: 08167-E31 LAYOUT NAME: LAYOUT1 SCALE: AS NOTED DRAWN BY: EDA	PROJ ENG: BRETT BINGHAM, P.E. DATE: 04/20/09 SCALE: AS NOTED DRAWN BY: EDA
SHEET E3.1 5 OF 9E	



1 POWER PLAN - ENLARGED MECHANICAL ROOM
E3.2 SCALE: 0' 6" 1' 2' 3'
3" 9"

DETAIL NOTES:

1. BOILER SHUT DOWN SWITCHES (RED) WITH COVERS. PROVIDE RED IDENTIFICATION LABEL FOR EACH SWITCH.
2. "GEN" INDICATES FIXTURE OR DEVICE TO BE CONNECTED TO GENERATOR STANDBY PANEL M.
3. COORDINATE EXACT LOCATIONS OF ELECTRICAL PANELBOARDS, DISCONNECTS, MOTOR STARTERS, ETC TO ENSURE THAT THEY HAVE NEC REQUIRED WORKING CLEARANCES.
4. THE EXTERIOR WALL SHALL NOT BE PENETRATED AND ALL CEILING PENETRATIONS SHALL HAVE SOLID BLOCK AND WEATHER TIGHT BOXES.

POWER PLAN SHEET NOTES:

THESE NOTES ARE TO BE REFERENCED ON SHEET E3.1

1. COORDINATE FINAL LOCATIONS AND REQUIREMENT OF DEVICES AND EQUIPMENT IN DENTAL 137, 129, & 118 WITH DENTAL EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN.
2. COORDINATE EXACT LOCATIONS OF ELECTRICAL SERVICE ENTRANCE EQUIPMENT, PANELBOARDS, DISTRIBUTION EQUIPMENT, ETC TO ENSURE THAT THEY HAVE NEC REQUIRED WORKING CLEARANCES AS REQUIRED BY NEC 110.26.
3. PROVIDE SURFACE MOUNTED CAST OUTLET BOXES AND USE SURFACE MOUNTED CONDUIT (IMC OR LIQUID-TIGHT FLEX WHERE APPROPRIATE) FOR ALL DEVICES AND EQUIPMENT LOCATED ON THE BUILDING EXTERIOR.
4. COORDINATE LOCATION AND TYPE OF UTILITY SERVICE CONNECTION WITH SERVING UTILITY.
5. RECEPTACLE FOR CONNECTION OF DENTAL CHAIR. COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT LOCATION (FLOOR OR WALL) AND TYPE OF RECEPTACLE REQUIRED.
6. DENTAL CONTROL PANEL AT +60" FOR REMOTE CONTROL OF COMPRESSOR AND VAC PUMP. PROVIDE LOW VOLTAGE CONTROL WIRING AS REQUIRED BY DENTAL DRAWINGS.
7. PROVIDE SINGLE GANG JUNCTION BOX FOR X-RAY CONTROL STATION AT +60". PROVIDE 1/2" CONDUIT AND LOW VOLTAGE CONTROL WIRING AS REQUIRED BY DENTAL DRAWINGS TO X-RAY COMPONENT IN DENTAL EXAM ROOM.
8. "GEN" INDICATES FIXTURE OR DEVICE TO BE CONNECTED TO GENERATOR STANDBY PANEL M.
9. STERILIZER UNIT - 110 VOLTS, 12 AMPS. RECEPTACLE TO BE SWITCHED. MOUNT RECEPTACLE AT +21" (VERIFY WITH DENTAL).
10. COORDINATE LOCATION AND HEIGHTS OF ALL ELECTRICAL OUTLETS MOUNTED ABOVE COUNTERS, BENCHES, AND BACKSPASHES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK SHOP DRAWINGS.
11. COORDINATE LOCATION OF FLOOR BOX WITH OWNER PRIOR TO ROUGH-IN.
12. CONDUIT (2") STUB UP PER DENTAL DRAWINGS.
13. DENTAL UNIT UTILITY CENTER, 8 AMPS 120V.
14. RECEPTACLE FOR RECESSED ULTRASONIC CLEANER. RECEPTACLE MOUNTED AT +18" (VERIFY WITH DENTAL). COORDINATE WITH DENTAL FOR PROVIDING OPTIONAL QUAD ELECTRICAL BOX FOR REMOTE TIMER AT 44" DIRECTLY ABOVE UNIT WITH 1" CONDUIT TERMINATING AT 24" ADJACENT TO DUPLEX OUTLET BELOW COUNTER.
15. CONNECT TO CARBON MONOXIDE DETECTOR JUST OUTSIDE PATIENT HOLDING DOOR, SHOWN ON E4.1.
16. STERILIZER UNIT - 220 VOLTS, 9.2 AMPS. CONTRACTOR TO COORDINATE WITH BURKHART DENTAL SUPPLY/EQUIPMENT MANUFACTURER FOR THE PROVIDING AND INSTALLING OF A BUCK N BOOST TRANSFORMER TO BOOST VOLTAGE AS NEEDED. MOUNT RECEPTACLE AT +46" (VERIFY WITH DENTAL).
17. HRV-1, 610W, 120V. COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND HEIGHT OF RECEPTACLE.
18. MICROWAVE ABOVE RANGE. COORDINATE WITH ARCHITECTURAL AND EQUIPMENT MANUFACTURER FOR EXACT LOCATION OF RECEPTACLE.
19. RANGE, NEMA 14-50R, 3#6, 1#10 CU. MOUNT RECEPTACLE IN LOCATION SO THAT IT IS ACCESSIBLE FROM THE FRONT OF THE RANGE BY REMOVAL OF THE RANGE DRAWER IN COMPLIANCE WITH NEC 422.33(B).
20. DISHWASHER, MOUNT RECEPTACLE AT +18" A.F.F.
21. AIR COMPRESSOR - 208/230 VOLTS, 8 AMPS, MINIMUM VOLTAGE IS 200 VOLTS. ELECTRICIAN IS TO VERIFY THE VOLTAGE LEVEL AT EQUIPMENT AND COORDINATE WITH BURKHART DENTAL SUPPLY/EQUIPMENT MANUFACTURER FOR THE PROVIDING AND INSTALLING OF A BUCK N BOOST TRANSFORMER TO BOOST VOLTAGE IF NEEDED. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER.
22. VACUUM PUMP UNIT - TWO UNITS EACH 208/230 VOLTS, 13 AMPS, MINIMUM VOLTAGE IS 200 VOLTS. ELECTRICIAN IS TO VERIFY THE VOLTAGE LEVEL AT EQUIPMENT AND COORDINATE WITH BURKHART DENTAL SUPPLY/EQUIPMENT MANUFACTURER FOR THE PROVIDING AND INSTALLING OF A BUCK N BOOST TRANSFORMER TO BOOST VOLTAGE IF NEEDED. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER.
23. RECEPTACLE FOR UNDERCOUNTER REFRIGERATOR. COORDINATE WITH ARCHITECTURAL AND EQUIPMENT INFORMATION FOR EXACT LOCATION OF RECEPTACLE PRIOR TO ROUGH-IN.
24. THE EXTERIOR WALL SHALL NOT BE PENETRATED AND ALL CEILING PENETRATIONS SHALL HAVE SOLID BLOCK AND WEATHER TIGHT BOXES.
25. REFRIGERATOR, 208/230 VOLTS, SINGLE PHASE, 4.5A.
26. COORDINATE EXACT HEIGHTS AND LOCATIONS OF DEVICES WITH OWNER AND FURNITURE/CASEWORK MANUFACTURER PRIOR TO ROUGH-IN.



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McGRATH SUB-REGIONAL
HEALTH CENTER
POWER PLAN - ENLARGED MECHANICAL ROOM
FILE NAME: 08167-E32
LAYOUT NAME: LAYOUT1
PROJ. ENG: BRETT BINGHAM, P.E.
DATE: 04/20/09
SCALE: AS NOTED
DRAWN BY: EDA

CIVIL SECTION

1. ADD drawing SKC-1 to the 100% Design Documents.
 2. Sheet C-301; **DELETE** this sheet and **REPLACE** with C-301 labeled with "Addendum 1" dated March 2010.

ELECTRICAL SECTION

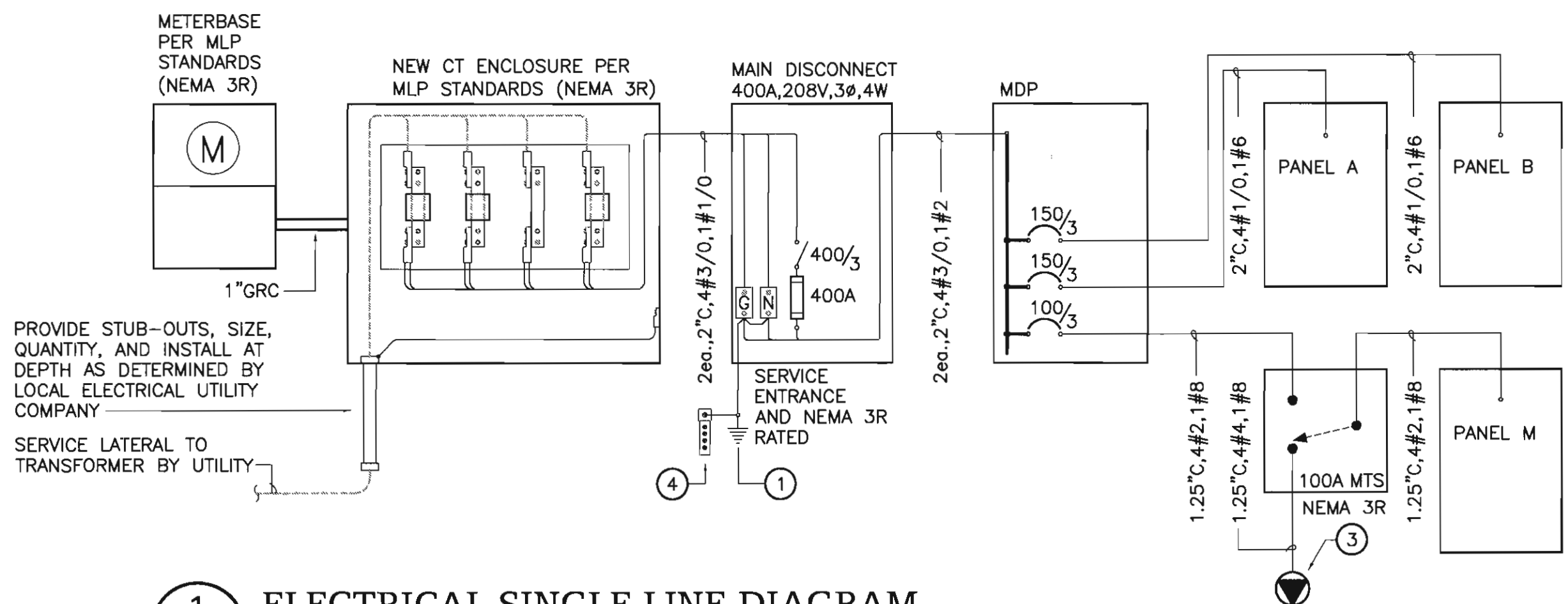
1. Sheet E3.3 - FAULT CURRENT ANALYSIS block.
 A. For Service Lateral Length - **DELETE** "50 ft", **REPLACE** with "6 ft".
 B. For Main Disconnect - **DELETE** "10,600 amps", **REPLACE** with "16,100 amps".
 C. For MDP - **DELETE** "8,100 amps", **REPLACE** with "11,000 amps".
 D. For Panel A - **DELETE** "7,800 amps", **REPLACE** with "10,500 amps".
 E. For Panel B - **DELETE** "7,800 amps", **REPLACE** with "10,500 amps".
 F. For Manual Transfer Switch - **DELETE** "4,000 amps", **REPLACE** with "4,600 amps".
4. Sheet E3.3 - Panel M, **REPLACE** spare 20 amp, single pole circuit breaker at space 23 with a 30mA GFEP type 20 amp, single pole, 120 volt circuit breaker. In the load description, **ADD** "Sewer Line Heat Trace". In the Phase A VA column for the new heat trace circuit, **ADD** "1000 VA".
5. Sheet Sheet E3.3 - FAULT CURRENT ANALYSIS block.
 G. For Service Lateral Length - **DELETE** "50 ft", **REPLACE** with "6 ft".
 H. For Main Disconnect - **DELETE** "10,600 amps", **REPLACE** with "16,100 amps".
 I. For MDP - **DELETE** "8,100 amps", **REPLACE** with "11,000 amps".
 J. For Panel A - **DELETE** "7,800 amps", **REPLACE** with "10,500 amps".
 K. For Panel B - **DELETE** "7,800 amps", **REPLACE** with "10,500 amps".
 L. For Manual Transfer Switch - **DELETE** "4,000 amps", **REPLACE** with "4,600 amps".

PANEL A			SCHEDULE				225A MLO					
			120/208V, 3PH, 4W									
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	PHASE C VA	LOAD DESCRIPTION	POLE	AMP	CKT		
1	50	2	REC-RANGE STAFF 139	4,000	720		REC-BILLING 124	1	20	2		
3							REC-SPEC. PROC 122	1	20	4		
5	20	1	REC-MICROWAVE STAFF 139		4,000	540		REC-FILE 123 HALL 110,113,TLT	1	20	6	
7	20	1	REC-139 CNTR (E) & E WALL, 13	540	540		REC-SPEC. PROC 122	1	20	8		
9	20	1	REC-139 CNTR (W) & W WALL, 1		540	1,080	REC-CLNDRTRY 118, PHRMCY 1	1	20	10		
11	20	1	REC-STAFF 139 DISHWASHER			1,200	1,355	LTG-CONF, JAN, STAFF	1	20	12	
13	20	1	REC-HRV (JAN 141)	610	1,215			LTG-ADMIN, OFF 134,135, TLT	1	20	14	
15	20	1	REC-CONF 142 COUNTER		180	1,715		LTG-RCP TM BILL, RCORDS, FLNG	1	20	16	
17	20	1	REC-CONF 142 COUNTER				180	1,455	LTG-EXAM, CLNDRTRY, PHRMCY	1	20	18
19	20	1	REC-CONF 142 WALLS, FLOOR	1,260	1,120			DENTAL EXAM LT, XRAY VIEWE	1	20	20	
21	20	1	REC-STOR, JAN, HALL, WTG, ENT		1,080	940		LTG-EXTERIOR BUILDING	1	20	22	
23	20	1	REC-OFFICE 135				900	1,255	LTG-DENTAL, LAB, HC BATH	1	20	24
25	20	1	REC-OFFICE 134	900	1,500			REC-HEADBOLT HEATER	2	20	26	
27	20	1	REC-OFFICE 133		720	1,500		REC-HEADBOLT HEATER	2	20	28	
29	20	1	REC-RECEPTION COPIER				1,200	1,500	REC-HEADBOLT HEATER	2	20	30
31	20	1	REC-RECEPTION 126	900	1,500			REC-HEADBOLT HEATER	2	20	32	
33	20	1	REC-RECEPTION 126		720	1,500		REC-HEADBOLT HEATER	2	20	34	
35	20	1	REC-EXAM 120, 121			720	1,500	REC-HEADBOLT HEATER	2	20	36	
37	20	1	REC-EXAM 120	720				SPARE	1	20	38	
39	20	1	REC-EXAM 119, 120		720			SPARE	1	20	40	
41	20	1	REC-EXAM 119			720		SPARE	1	20	42	
CONNECTED LOAD (VA)				15,525	15,235	14,685	45,445 VA					
CONNECTED LOAD (AMPERES)				129	127	122	126 A					
DEMAND LOAD (VA)				16,109	15,899	15,701	47,709 VA					
DEMAND LOAD (AMPERES)				134	132	131	133 A					
AMPERE INTERRUPT RATING				AS INDICATED BY THE FAULT CURRENT ANALYSIS								

PANEL M			SCHEDULE				225A MLO			
			120/208V, 3PH, 4W							
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	PHASE C VA	LOAD DESCRIPTION	POLE	AMP	CKT
1	20	1	REC-DATA ROOM	360	660		LTG-MORG, ENTRY, WTG, HALL	1	20	4
3	20	1	REC-DATA ROOM		360	1,650	LTG-ELEC, ENTRY, WTG, HALLS	1	20	4
5	20	1	REC-MORGUE 129 FRIDGE			1,440	778	LTG-TRAUMA	1	20
7	15	1	REC-WTG 104, WTG 127, 132 FR	840	1,200		CUH-1 & 2, UH-1 & 2 & 3, HWG-1	1	20	6
9	20	1	FIRE ALARM CONTROL PANEL		500	500	MECH RM CONTROL PANEL	1	20	10
11	20	1	REC-STAFF 139 FRIDGE			1,000	500	B-1, BC-1	1	20
13	20	1	REC-TRAUMA EXAM 114	540	900		REC-MECH RM, GT-1	1	20	14
15	20	1	REC-TRAUMA EXAM 114		360	500	B-2, BC-2	1	20	16
17	20	1	REC-TRAUMA EXAM 114			360	890	CP-1, CP-2	1	20
19	15	1	PHARMACY FRIDGE	470	890					18
21	2	2			470	890			3	22
23	20	1	SPARE				500	CP-3, CP-4	1	20
25	20	1	SPARE					SPARE	1	20
27	20	1	SPARE					SPARE	1	20
29	20	1	SPARE					SPARE	1	20
31	20	1	SPARE					SPARE	1	20
33	20	1	SPARE					SPARE	1	20
35	20	1	SPARE					SPARE	1	20
37	-	1	SPACE					SPACE	1	-
39	-	1	SPACE					SPACE	1	-
41	-	1	SPACE					SPACE	1	-
CONNECTED LOAD (VA)				5,860	5,230	5,468	16,558 VA			
CONNECTED LOAD (AMPERES)				49	44	46	46 A			
DEMAND LOAD (VA)				6,136	5,754	5,774	17,664 VA			
DEMAND LOAD (AMPERES)				51	48	48	49 A			
AMPERE INTERRUPT RATING						AS INDICATED BY THE FAULT CURRENT ANALYSIS				
L - PROVIDE WITH LOCK-ON TYPE DEVICE.										

PANEL B				SCHEDULE				225A MLO					
				120/208V, 3PH, 4W									
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA		PHASE B VA		PHASE C VA		LOAD DESCRIPTION	POLE	AMP	CKT
1	20	1	WASHER	1,500	1,560					DENTAL VACUUM	2	20	2
3	30	2	DRYER			2,500	1,560				2	20	4
5	2	2						2,500	960	DENTAL COMPRESSOR	2	20	6
7	20	1	REC-LNDTRY,WTG,ENTRY,MRG	900	960						2	20	8
9	20	1	REC-PATIENT HLDG,CO DTCTR			1,260	1,560			DENTAL VACUUM	2	20	10
11	20	1	REC-BH CONF 109					900	1,560		2	20	12
13	20	1	REC-CLINICIAN 108	720	960					REC-DENTAL CHAIR	1	20	14
15	20	1	REC-CLINICIAN 107			720	960			REC-DENTAL CHAIR	1	20	16
17	20	1	REC-CLINICIAN 106					720	960	DENTAL X-RAY	1	20	18
19	20	1	REC-HEALTH EDUCATOR 105	720	960					DENTAL UTILITY	1	20	20
21	20	1	REC-TLTS, ELEC, EXTERIOR			720	960			DENTAL UTILITY	1	20	22
23	20	1	LTG-CRAWLSPACE					1,200	720	REC-ULTRASONIC CLNR (118)	1	20	24
25	2	2	REC-CRAWLSPACE	1,440	1,105					REC-STERILIZER	2	20	26
27	20	1	LTG-PATIENT HOLDING			430	1,105				2	20	28
29	20	1	REC-LAB CNTR,HC BATH,HALL					720	1,440	REC-STERILIZER	1	20	30
31	20	1	REC-LAB COUNTER	540	720					REC-DENTAL CABINETS	1	20	32
33	20	1	LTG-BH CLINIC,TLT,HLTH ED			1,080	180			REC-CLEAN/DIRTY (DISTILLER)	1	20	34
35	20	1	LTG-BH CLINIC, CONF,MECH,LNDTRY					1,140	1,500	REC-HEADBOLT HEATER	2	20	36
37	20	1	EF-5,8,7	675	1,500					REC-HEADBOLT HEATER	2	20	38
39	20	1	EF-9			375				SPARE	1	20	40
41	20	1	SPARE							SPARE	1	20	42
CONNECTED LOAD (VA)				14,260		13,410		14,320		41,990 VA			
CONNECTED LOAD (AMPERES)				119		112		119		117 A			
DEMAND LOAD (VA)				14,650		14,178		15,145		43,973 VA			
DEMAND LOAD (AMPERES)				122		118		126		122 A			
AMPERE INTERRUPT RATING										AS INDICATED BY THE FAULT CURRENT ANALYSIS			
A - ARC-FAULT TYPE CIRCUIT BREAKER.													

MDP										400A									
120/208V, 3PH, 4W																			
CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA		PHASE B VA		PHASE C VA		LOAD DESCRIPTION	POLE	AMP	CKT						
1	2	3	PANEL A	16,109	6,136	15,899	5,754			PANEL M	3		2						
3	2	3	PANEL B	14,650				15,701	5,774	SPACE	3		4						
5	2	3	SPACE			14,178		15,145		SPACE	3		6						
7	2	3	SPACE							SPACE	3		8						
9	2	3	SPACE							SPACE	3		10						
CONNECTED LOAD (VA)				36,895		35,830		36,620		109,345 VA									
CONNECTED LOAD (AMPERES)				307		299		305		304 A									
DEMAND LOAD (VA)				36,895		35,830		36,620		109,345 VA									
DEMAND LOAD (AMPERES)				307		299		305		304 A									
AMPERE INTERRUPT RATING																			
* SEE SINGLE LINE DIAGRAM FOR CIRCUIT BREAKER SIZES.																			



1 ELECTRICAL SINGLE LINE DIAGRAM

E3.3 SCALE: NTS

FAULT CURRENT ANALYSIS

BASIS OF CALCULATIONS:

VARIABLE	VALUE
PRIMARY BUS	INFINITE MVA
UTILITY TRANSFORMER RATING	75 KVA
UTILITY TRANSFORMER IMPEDANCE	1.2%
VOLTAGE (LINE TO LINE)	120/208 VOLTS, 3Ø
SERVICE LATERAL LENGTH	50 FT
SERVICE LATERAL CONDUCTOR SIZE	#4/0 kcmil AL
CONDUCTORS PER PHASE	1
CONDUIT TYPE	NON-MAGNETIC

CALCULATION SUMMARY:

LOCATION	SHORT CIRCUIT CURRENT
UTILITY TRANSFORMER SECONDARY	17,349 AMPS
MAIN DISCONNECT	10,600 AMPS
MDP	8,100 AMPS
PANEL A	7,800 AMPS
PANEL B	7,800 AMPS
MANUAL TRANSFER SWITCH	4,000 AMPS
PANEL M	4,000 AMPS

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.

DETAIL NOTES:

- PROVIDE GROUNDING ELECTRODE SYSTEM AS FOLLOW: #1/0 CU. TO WATER MAIN, #1/0 CU. TO BUILDING STEEL, 20' OF #4 CU. ENCASED IN FOOTING CONCRETE AND BONDED TO REBAR. AND #6 CU. TO 2 DRIVEN ROD ELECTRODES.
- IMMEDIATELY UPON PROJECT INCEPTION THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRICAL UTILITY COMPANY (McGRATH LIGHTING AND POWER, LOUIS ENGRASS 907 524-3391 or ERNIE BAUMGARTNER 907 524-3360) 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.
- WEATHERPROOF 60 AMP, 208 VOLT, FOUR WIRE MALE RECEPTACLE FOR PORTABLE GENERATOR SUPPLY TO BUILDING. PROVIDE TO OWNER A MATCHING FEMALE PLUG FOR WIRING TO GENERATOR.
- INTERSYSTEM BONDING TERMINATION PER NEC 250.94 FOR CONNECTION TO COMMUNICATIONS BONDING AND GROUNDING CONDUCTORS.



McGRATH SUB-REGIONAL HEALTH CENTER

SINGLE LINE DIAGRAM AND PANEL SCHEDULES

COLLINS CONSTRUCTION, INC.
P.O. BOX 871827
PHONE: (907) 376-8299 WASILLA, AK 99687 FAX: (907) 373-5468

REQUEST FOR INTERPRETATION

McGrath Health Clinic RFI #:19
(PROJECT)
E4.1 October 23, 2010
REFERENCE: (DRAWING OR SPEC.) (DATE)

DESCRIPTION: despite the engineers inspection report dated Sept. 7th the electrical contractor did not rough in the fire alarm and security panels in entry 100 in the location shown on E 4.1. Can these panels be moved to the west wall of entry 100 which is the common wall between the entry and elec. 101?

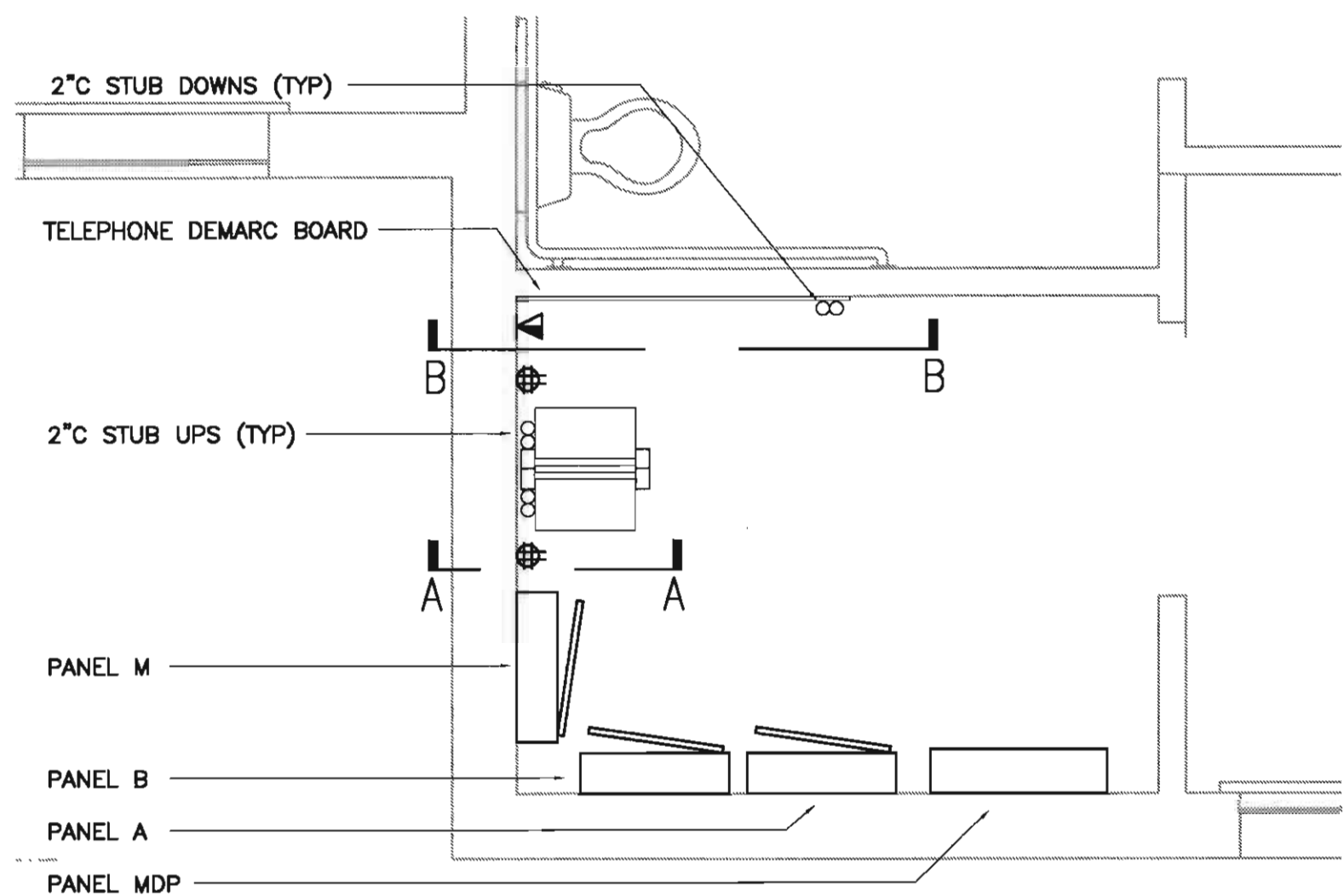
Greg Waisanen (REQUESTED BY)

(DATE)
RESPONSE: We do not have any objections to the proposed location, as long as it does not conflict with any other items of construction.

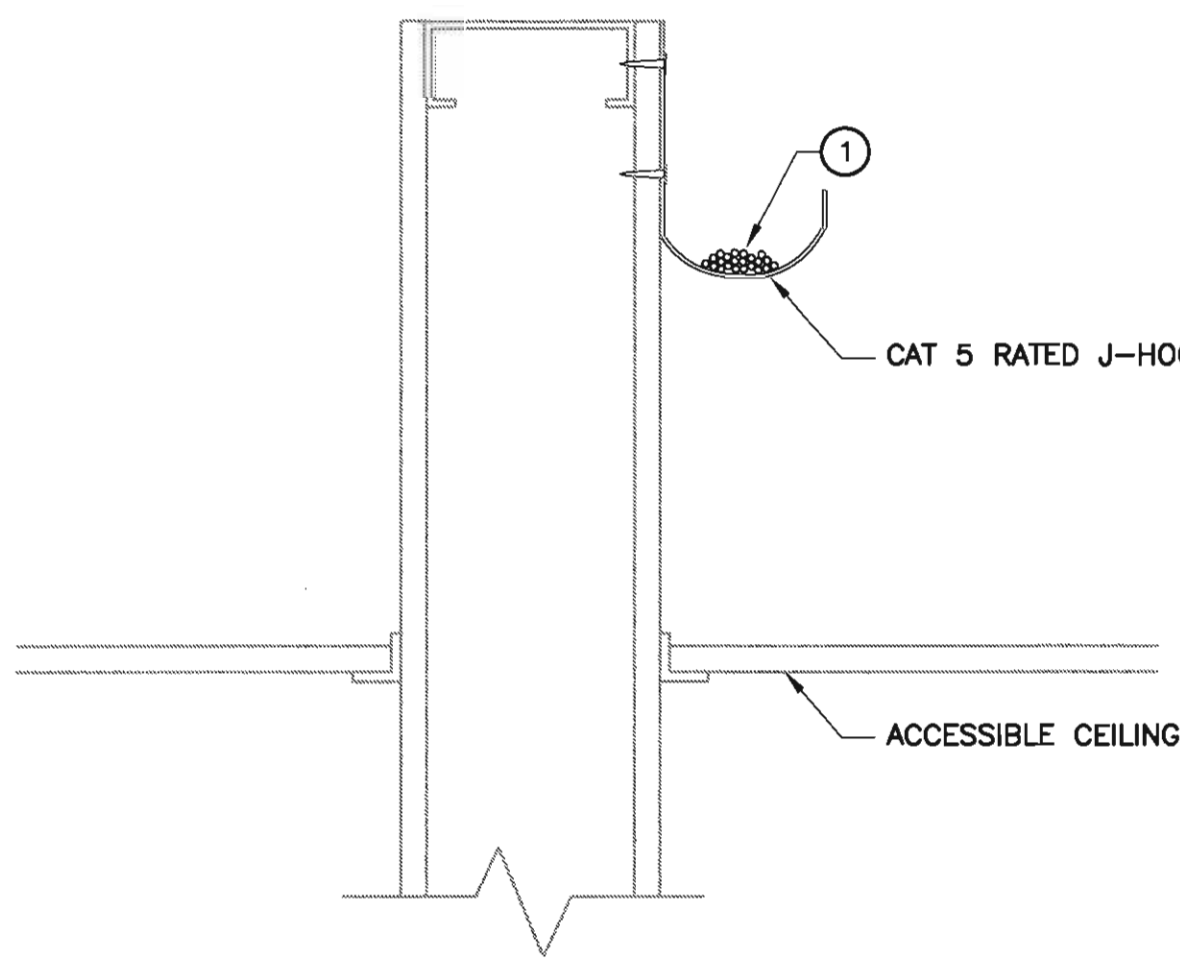
Brett Bingham, HZA
RESPONSE NEEDED BY: 10-25-10 (ARCHITECT / ENGINEER SIGNATURE)

10-25-10
(DATE)
ACTION REQUIRED BY:
RESOLUTION:

Notification must be given in accordance with the contract documents if any architect / engineer response / description causes any change to contract documents.



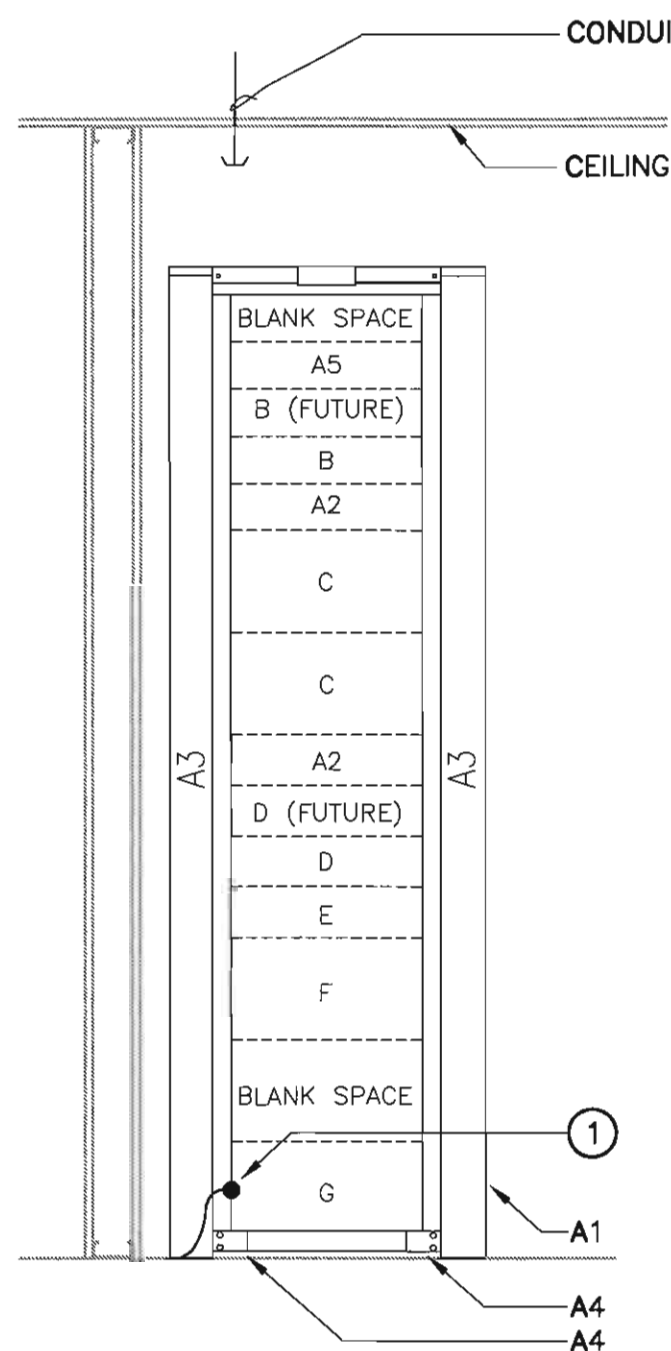
1 TELECOM ROOM DETAIL
E4.2 SCALE: 0 1/2" = 6" 1' 2' 3'
3" 9"



DETAIL NOTES

- 1 PROVIDE CAT 5 RATED J-HOOKS TO SUPPORT ALL CABLES WHERE NOT INSTALLED IN CONDUIT. SIZE J-HOOKS TO ALLOW 20% SPARE CAPACITY FOR FUTURE CABLES.

4 TYP. CABLE SUPPORT
E4.2 SCALE: NTS



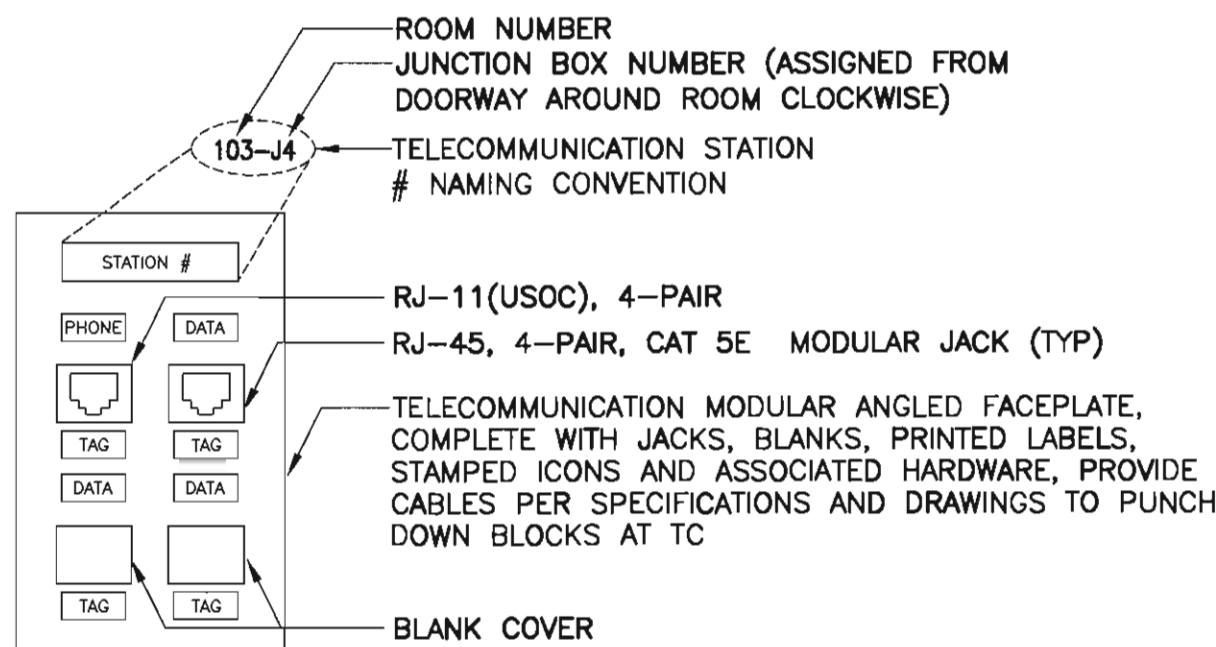
2 TELECOM ROOM RACK DETAIL A-A
E4.2 SCALE: NTS

PROVIDE THE FOLLOWING RACK EQUIPMENT AS NOTED:

- A1-UNIVERSAL SELF SUPPORT RACK, 7'-0" HIGH, 19" WIDE, EXTRUDED ALUMINUM, CLEAR COAT FINISH, CPI-55053-503
A2-HORIZONTAL WIRE MANAGEMENT PANEL, 2RMU, CLEAR CPI 13075-519
A3-DOUBLE-SIDED NARROW VERTICAL RACK CABLING SECTION, CLEAR CPI 12096-503
A4-RACK SEISMIC GUSSET KIT, CPI 11592-701
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 5E DISTRIBUTION
D- 24-PORT ACTIVE HUB (NIC)
E- MONITOR/KEYBOARD/MOUSE (NIC)
F- SERVER (NIC)
G- 1.0 KVA UPS (NIC)

DETAIL NOTES

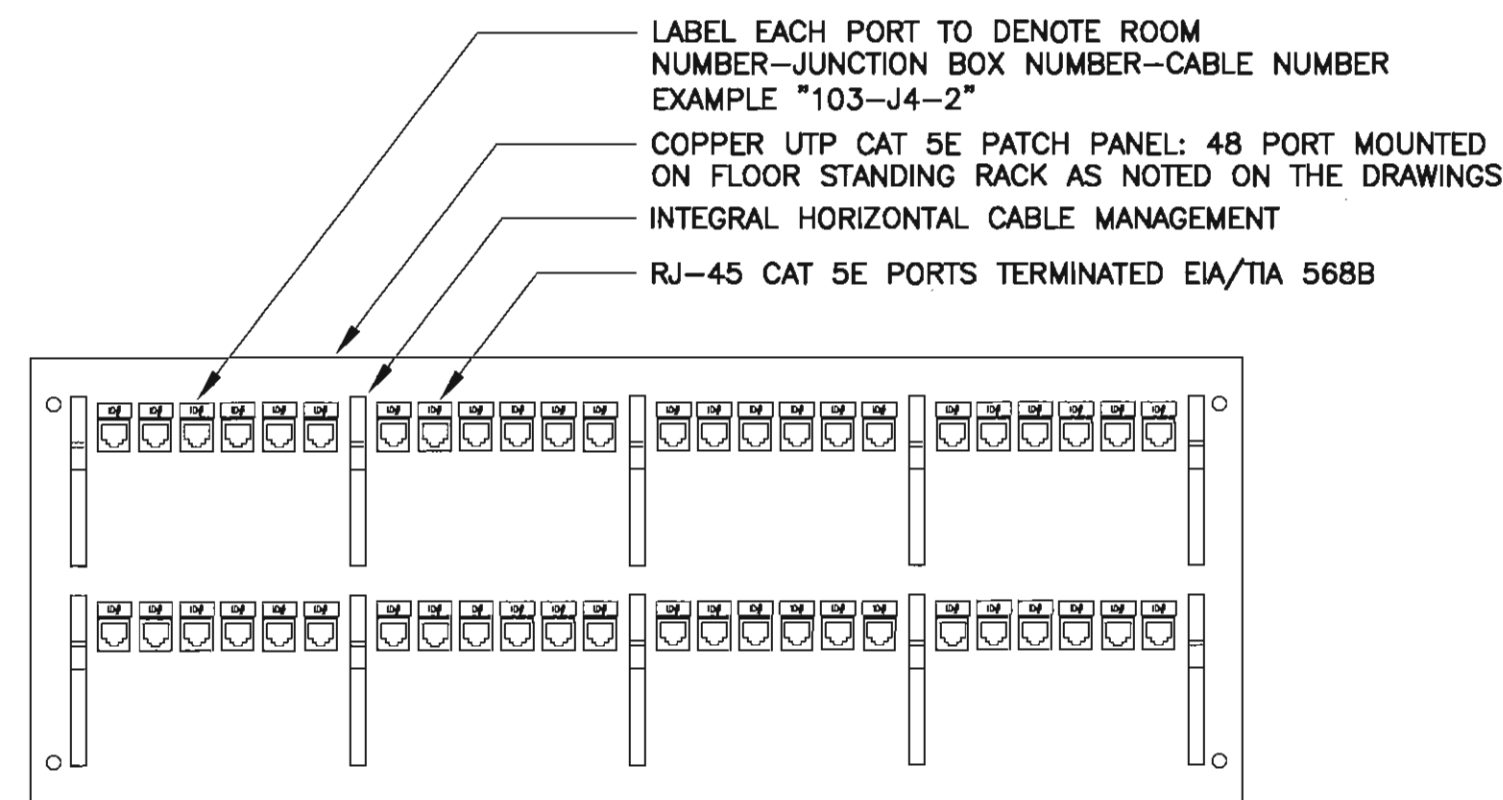
- 1 ALL GROUND CONNECTIONS SHALL BE IRREVERSABLE CRIMP TYPE.



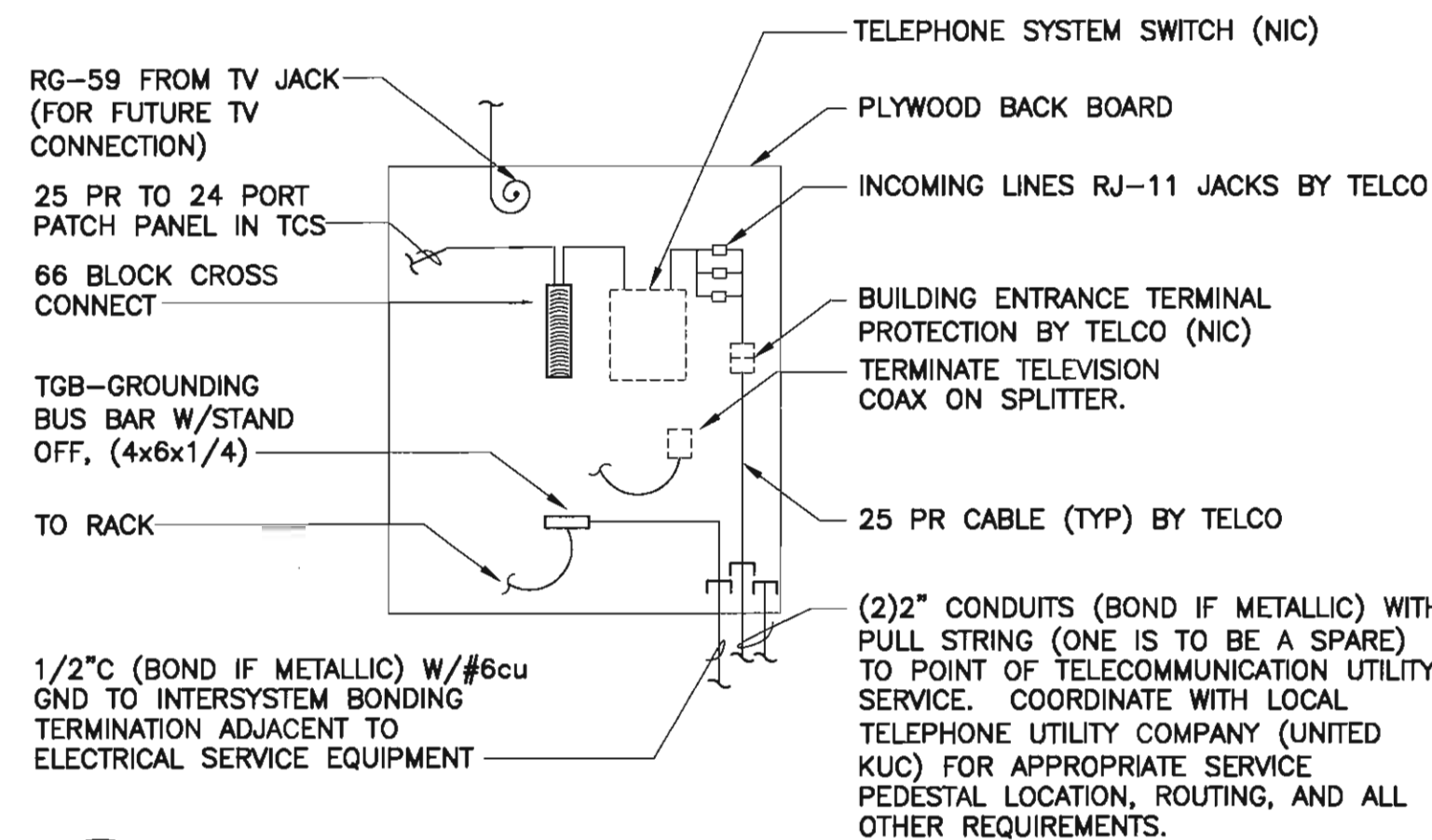
DETAIL NOTES

1. EACH DEVICE PLATE SHALL BE 4 PORT MINIMUM WITH (1) RJ-11 AND (1) RJ-45 JACK CAT 5E RATED, UON ON THE DRAWINGS.
2. FILL ACTIVE PORTS IN FACEPLATE FROM LEFT TO RIGHT AND TOP TO BOTTOM.
3. TERMINATE EACH CAT 5E CABLE ON RJ-11 OR RJ-45 CAT 5E 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.

5 TELECOM OUTLET (TYP.)
E4.2 SCALE: NTS



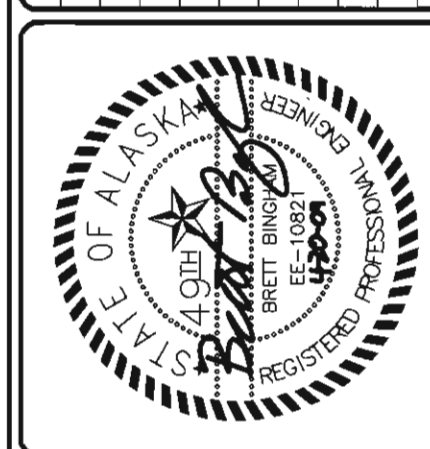
3 TELECOM PATCH PANEL (TYP)
E4.2 SCALE: NTS



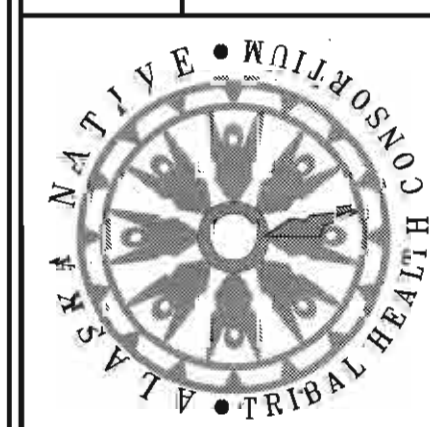
6 TELCO SERVICE DEMARC DETAIL B-B
E4.2 SCALE: 1/2" = 1'-0"



INIT.	REVISIONS	DATE



ALASKA NATIVE
TRIBAL HEALTH CONSORTIUM
DIVISION OF ENVIRONMENTAL
HEALTH AND ENGINEERING
1901 SOUTH BRAGAW STREET, SUITE 200
ANCHORAGE, ALASKA, 99508-3440
(907) 729-3600



McGRATH SUB-REGIONAL
HEALTH CENTER
SIGNAL DETAILS
FILE NAME: 08167-E42
LAYOUT NAME: LAYOUT1
PROJ ENG: BRETT BINGHAM, P.E.
DATE: 04/20/09
SCALE: AS NOTED
DRAWN BY: BAB