

Plotted By: 4/24/2015 4:32:09 PM
Date/Time: 4/24/2015 4:32:09 PM
Layout: G1
Filename: F:\Architectural Projects\859.09 Alcantra Mobile Emergency Facility.rvt



250 H Street
Anchorage, AK 99501
P: (907) 243-8985
F: (907) 243-5629
www.lcgak.com

PROJECT DESCRIPTION

THIS PROJECT IS FOR THE DESIGN AND CONSTRUCTION OF A 60' X 80' FACILITY TO HOUSE AND MAINTAIN THE MOBILE EMERGENCY OPERATIONS AND COMMAND (MEOC) VEHICLE AT THE ALCANTRA ARMORY SITE LOCATED IN WASILLA, ALASKA. THE PROJECT WILL CREATE A CONDITIONED BUILDING WITH STUB OUT CONNECTIONS FOR FUTURE UTILITIES TO INCLUDE SEWER, WATER, AND GAS. AN ADDITIONAL CANOPY WILL BE CONSIDERED FOR FUTURE CONSTRUCTION ADJACENT TO THIS BUILDING. THE PRE-ENGINEERED BUILDING WILL BE MANUFACTURED BY VARCO PRUDEN BUILDINGS (VP.COM) AND THE EXTERIOR WALL AND ROOF PANELS WILL BE PROVIDED BY KINGSPAN (WWW.KINGSPAN.COM). ALL ERECTION AND CONSTRUCTION DETAILS SHALL BE PER BUILDING MANUFACTURER.

PROJECT TEAM

ARCHITECTURE/ CIVIL/ STRUCTURAL:

LCG-LANTECH
250 H ST
Anchorage, AK 99501
907-243-8985

MECHANICAL/ ELECTRICAL:

HAY, ZEITLOW & ASSOCIATES, LLC
113 W. NORTHERN LIGHTS BLVD., STE 240
Anchorage, AK 99503
907-562-1012

GENERAL NOTES

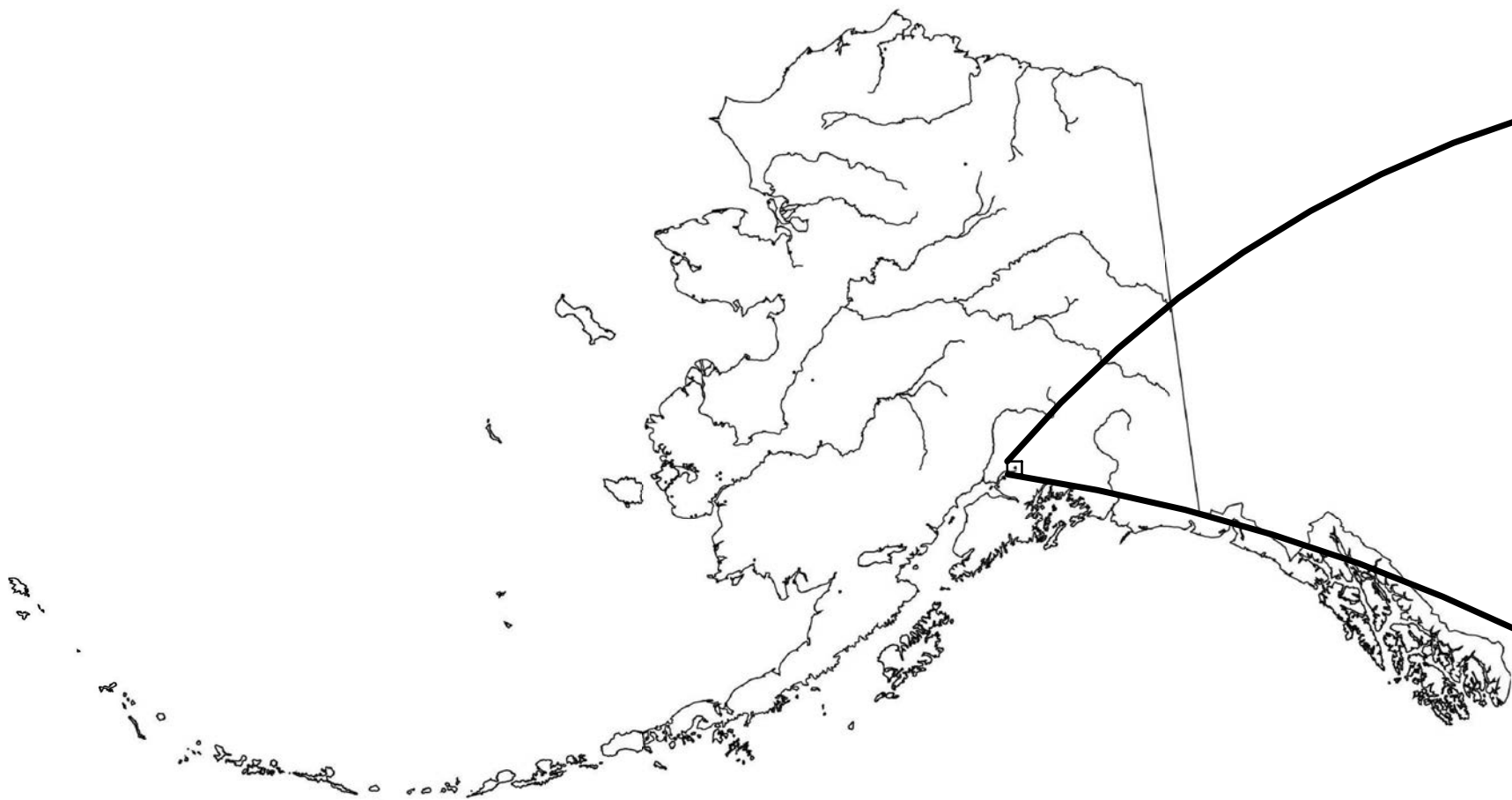
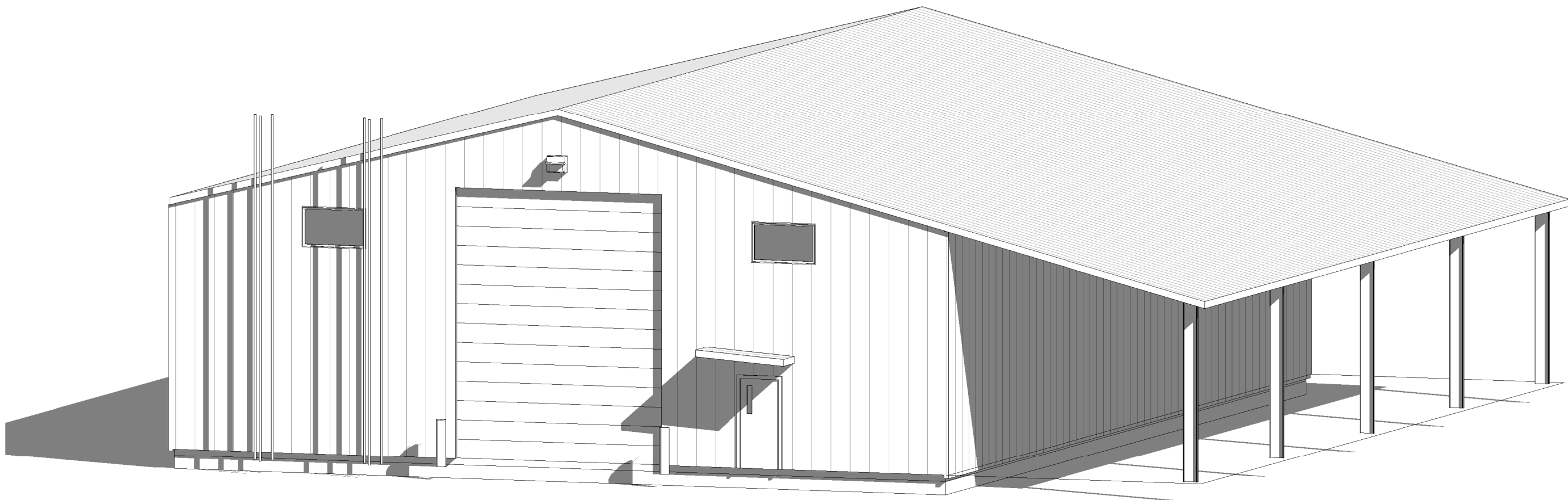
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, NFPA 101, INTERNATIONAL MECHANICAL CODE, UNIFORM PLUMBING CODE, NATIONAL ELECTRICAL CODE, AND ALL LOCAL AND STATE OF ALASKA CODE REGULATIONS AND AMENDMENTS.
2. ALL NEW WORK SHALL CONFORM WITH TYPE II NON-COMBUSTIBLE CONSTRUCTION PER THE INTERNATIONAL BUILDING CODE AND NFPA 101.
3. THE ORGANIZATION OF THESE DRAWINGS IS NOT INTENDED TO CONTROL THE DIVISION OF WORK AMONG SUB-CONTRACTORS. THE DIVISION OF THE WORK SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL APPLICABLE LOCAL CODES AND TRADE STANDARDS.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC, ENVIRONMENT AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. CONTRACTOR ASSUMES ALL LIABILITY FOR DAMAGES INCURRED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO COMPLETE ALL WORK AS SHOWN OR AS IMPLIED ON THESE DRAWINGS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL FACILITIES FOR HEAT, LIGHT AND POWER WITHIN THE PREMISES AND IN THE CONSTRUCTION AREA DURING THE ENTIRE CONSTRUCTION PERIOD. PROVIDE NECESSARY MATERIALS AND LABOR FOR POWER CONNECTIONS FOR MACHINES, PORTABLE, ETC. AS USED BY OTHER TRADES, REGARDLESS OF SIZE.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK TO MINIMIZE ANY DISRUPTIONS OF EXISTING FIRE SUPPRESSION AND FIRE ALARM SYSTEMS. COORDINATE WITH THE PROJECT ENGINEER AND JBER FIRE CHIEF FOR SCHEDULING AND FIRE-WATCH REQUIREMENTS FOR PERIODS WHEN SYSTEMS ARE TEMPORARILY DISABLED.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF A CONDITION NOT COVERED IN THE DRAWINGS IS ENCOUNTERED, OR IF A DIMENSIONAL ERROR IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE COMMENCING WITH THAT PORTION OF THE WORK.
10. ALL COMPONENTS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURERS PRINTED RECOMMENDATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND DEBRIS RESULTING FROM CONSTRUCTION.
12. ALL COLOR SELECTION SHALL BE BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
13. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF PANEL SHEATHING, GRID LINES, FACE OF ROUGH OPENING, UNLESS INDICATED OTHERWISE.
14. CAULK ALL EXTERIOR JOINTS, PROVIDE BACKER ROD AS NEEDED, AND PROVIDE FLASHING & COUNTER FLASHING AS NEEDED TO PROVIDE COMPLETE WEATHER PROOF INSTALLATION.

ALCANTRA MEOC VEHICLE GARAGE

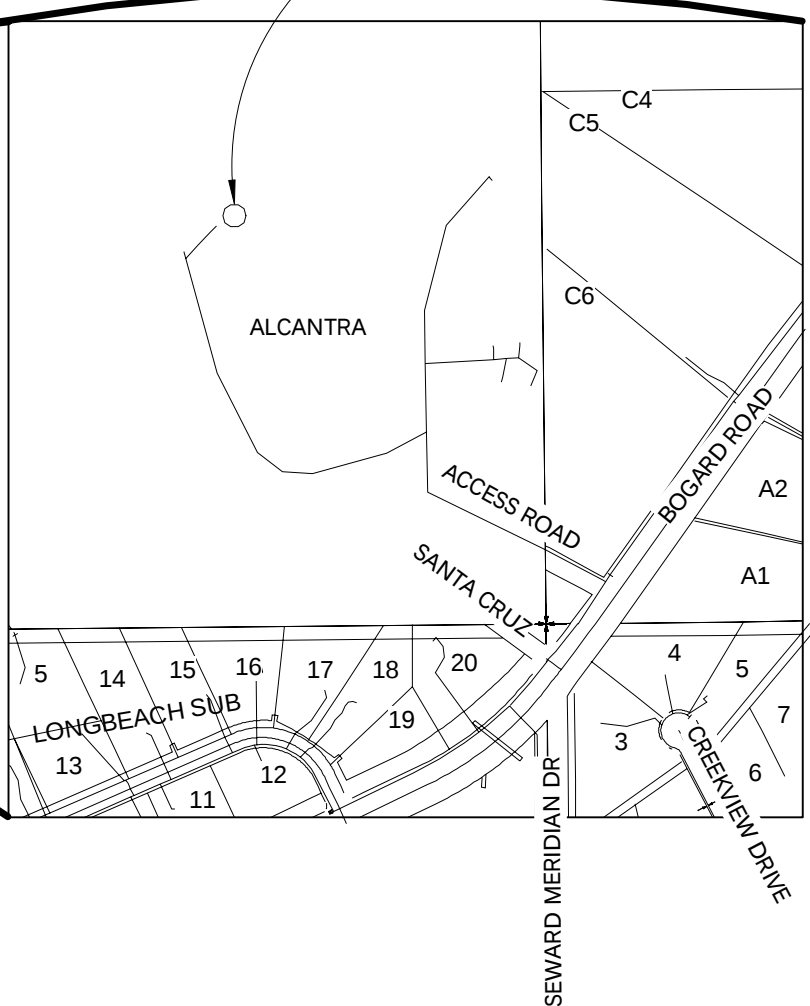
PERMITTING SUBMITTAL

04/24/2015

PROJECT NO. 81224



PROJECT LOCATION



DMVA
WASILLA, ALASKA

DRAWING INDEX

GENERAL

- G1 COVER SHEET
- G2 SYMBOLS & ABBREVIATIONS

CIVIL DRAWINGS

- C0.0 OVERALL SITE PLAN
- C1.0 SITE PLAN
- C2.0 CIVIL DETAILS

ARCHITECTURAL DRAWINGS

- A1 FLOOR PLAN
- A2 ELEVATIONS
- A3 BUILDING SECTION
- A4 SCHEDULES AND DETAILS
- A5 STAIR AND RAILING DETAIL

STRUCTURAL DRAWINGS

- S0 DESIGN CRITERIA
- S1 FOUNDATION PLAN
- S2 FOUNDATION SECTION DETAILS
- S3 STRUCTURAL DETAILS
- S4 CANOPY FOUNDATION PLAN
- S5 ANTENNA DETAILS

MECHANICAL DRAWINGS

- M2 SPECIFICATIONS AND SEQUENCE OF OPERATION
- M1 SCHEDULED, LEGEND, AND ABBREVIATIONS
- M3 PLUMBING PLANS AND DETAILS
- M4 HVAC PLAN, DETAILS AND GAS PIPING DIAGRAM

ELECTRICAL DRAWINGS

- E1 ELECTRICAL LEGEND, FIXTURE SCHEDULE, AND RISER DIAGRAM
- E2 LIGHTING PLAN
- E3 POWER AND SIGNAL PLAN
- E4 ELECTRICAL SPECIFICATIONS

CODE CONDITIONS

CODE ANALYSIS BASED ON 2009 EDITION, INTERNATIONAL BUILDING CODE

OCCUPANCY CLASSIFICATION: S-1 (STORAGE)
TYPE OF CONSTRUCTION: V-B (NON-RATED)

BUILDING HEIGHTS AND AREA (S-1 OCCUPANCY)

BASIC ALLOWABLE AREA: 9,000 SF
INCREASE FOR SEPERATION: 6,750 SF
INCREASE FOR SPRINKLER: N/A
TOTAL ALLOWABLE AREA: 15,750 SF

ACTUAL AREA (GROUND FLOOR) 4,800 SF **OK**
MEZZANINE AREA: 1,600 SF **OK** (LESS THAN 1/3 GROUND FLOOR)
CANOPY AREA: 1,584 SF **OK**

FIRE EXTINGUISHERS

1. FIRE EXTINGUISHERS TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.
2. PROVIDE EXTINGUISHERS CLASSIFIED AND LABELED BY UNDERWRITERS LABORATORIES, INC. (UL) FOR THE PURPOSE SPECIFIED AND INDICATED.
3. PROVIDE PRODUCT DATA, SHOP DRAWINGS, INSTALLATION INSTRUCTIONS AND MAINTENANCE DATA. SHOP DRAWINGS TO INDICATE WALL BRACKET MOUNTING MEASUREMENTS. MAINTENANCE DATA TO INCLUDE TEST, REFILL OR RECHARGE SCHEDULES AND RE-CERTIFICATION REQUIREMENTS.
4. GENERAL:

- A) UL RATED 2A:10B:C
- B) MOUNTING: BRACKETS, FORMED STEEL, CHROME PLATED.

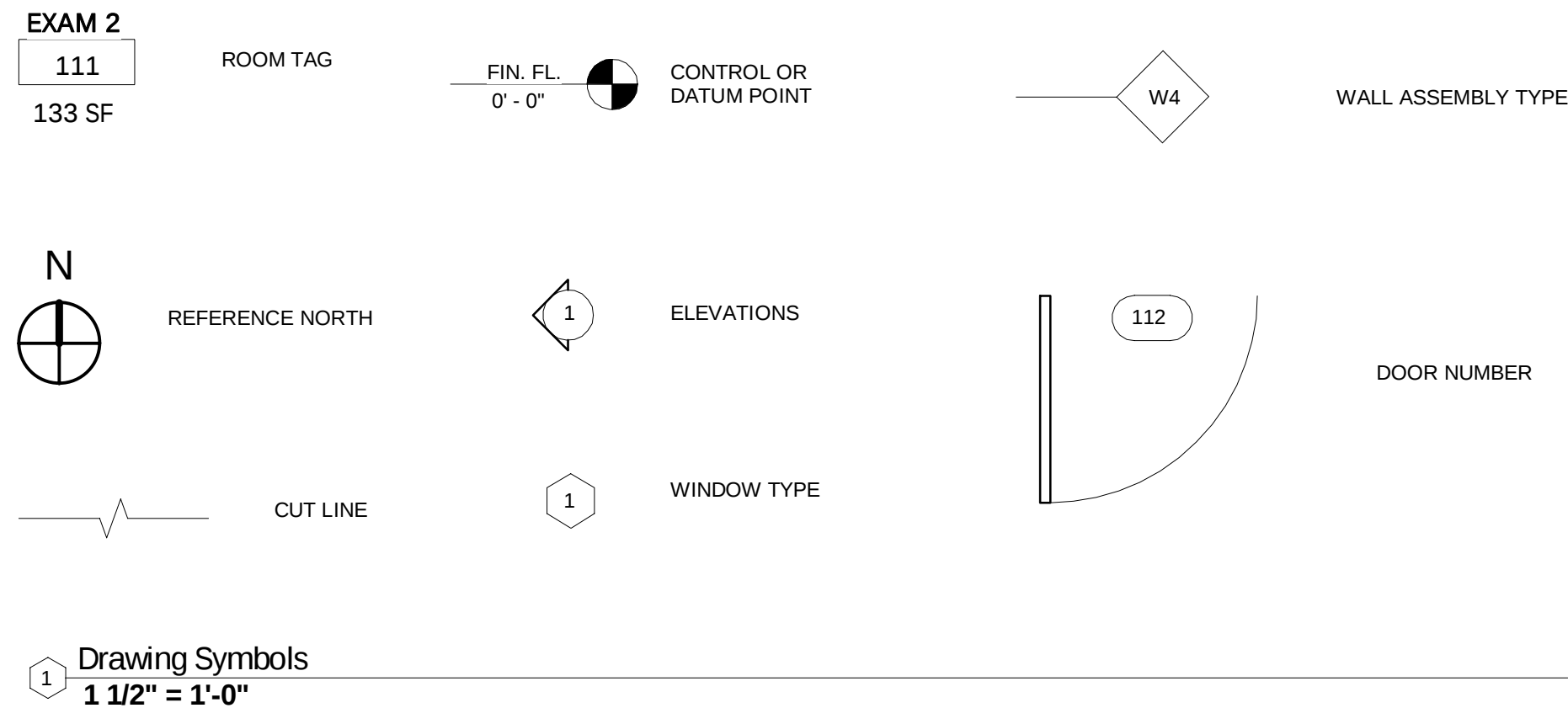
INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AT LOCATIONS SHOWN ON DRAWINGS.

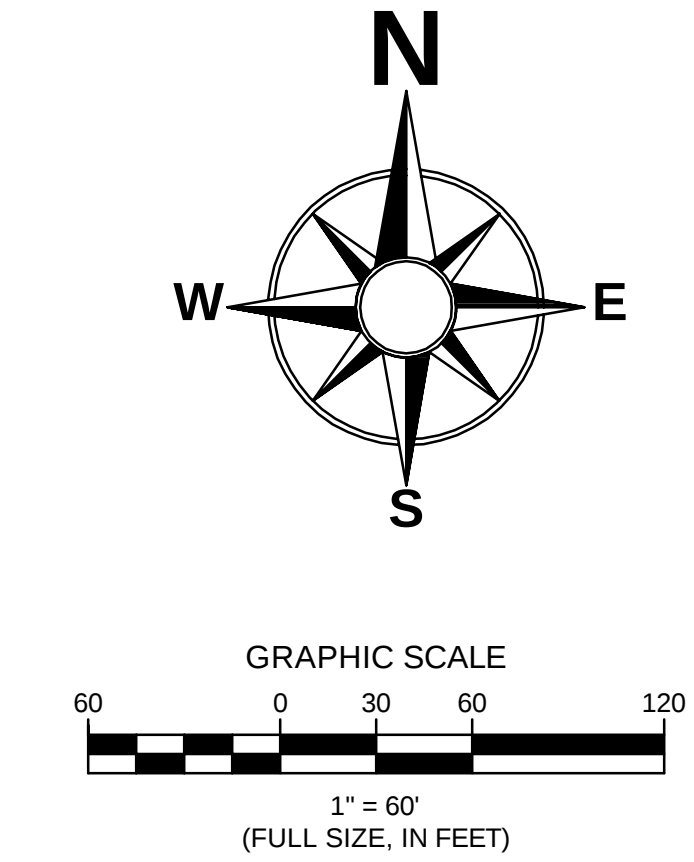
ALCANTRA MEOC VEHICLE GARAGE

859.09

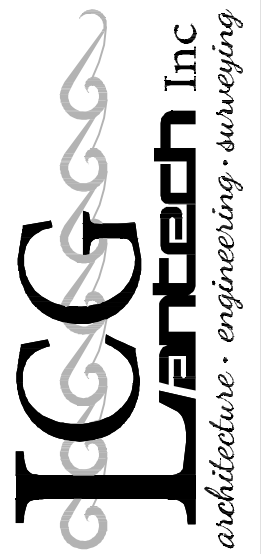
ABBREVIATIONS (ARCH/STRUCT)

# & @	INCH NUMBER AND AT ANGLE < Ø(DIA)*	C.CSK. CSMT. CTD. CTR. CU. CVR'G	COUNTERSUNK CASEMENT COATED CENTER CUBIC COVERING	FLR. FLSH. FLUOR. FRMG. FRFP. FRT. FT. FTG. FUT.	FLOOR FLASHING FLUORESCENT FRAMING FIREPROOFING FIRE RETARDANT TREATED FOOT FOOTING FUTURE	MECH. MEMB. MFG. MFGR. MH. MIN.* MIRROR MISC. MTL. MULL. MWP MI	MECHANICAL MEMBRANE MANUFACTURE MANUFACTURER MANHOLE MINIMUM OR MINUTE MIRROR MISCELLANEOUS METAL MULLION MEMBRANE WATER PROOFING MALLEABLE IRON	S.S. SAN. SCHED.	SANITARY SEWER SCHEDULED
A.B. A.C.T. A.F.F. ACOUS. ACT. ADD. ADDN. ALT. ALUM. ANDD. APPROX. ARCH. ASB. ASPH. AUTO. DR. AVG.	ANCHOR BOLT ACOUSTICAL CEILING TILE ABOVE FINISH FLOOR ACOUSTICAL. ADDITION OR ADDENDUM ADDITIONAL ALTERNATE ALUMINUM ANODIZED APPROXIMATE ARCHITECTURAL ASBESTOS ASPHALT AUTOMATIC DOOR AVERAGE	D.B. D.F.* D.L. DBL. DEMO. DEPT. DIA. DIAG. DIFF. do DIM. DISP. DK. DN. DR. DS. DTL. DWG.	DRAWER BANK DRINKING FOUNTAIN DOUGLAS FIR DEAD LOAD DOUBLE DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIFFUSER OR DIFFERENCE DITTO DIMENSION DISPENSER DECK DOWN DOOR DOWN SPOUT DETAIL DRAWING	G.A. GA. G.B. G.I. G.W.B. GAL. GALV. GL. GLB. GOV'T GR. GSP. GYM. GYP	GYPSUM ASSOCIATION GAUGE GRAB BAR GALVANIZED IRON GYPSUM WALL BOARD GALLON GALVANIZED GLASS GLUE LAMINATED BEAM GOVERNMENT GRADE GALVANIZED STEEL PIPE GYMNASIUM GYPSUM	(n) N. N.A. N.I.C. N.T.S. NO. NOM. O.C. O.H. OFF. OHD. OPNG. OPP. ORIG.	NEW NORTH NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE NUMBER NOMINAL ON CENTER OFFICE OVER HEAD DOOR OPENING OPPOSITE ORIGINAL	SD. SDG. SECT. SHEATH. SHT. SHWR. SIM. SPEC. SPL. SQ. SQ. FT. SST. ST.S. STD. STL. STOR. STRUCT. SUR. SUSP. SV. SYM.	SIDE SIDING SECTION SHEATHING SHEET SHOWER SIMILAR SPECIFICATIONS SPECIAL SQUARE SQUARE FEET STAINLESS STEEL STORM SEWER STATION STANDARD STEEL STORAGE STRUCTURE SURFACE SUSPENDED SHEET VINYL SYMMETRICAL
B.C. B.M. BTWN B.O. B.S. B.T.U. B.U.R. BK BLK. BLKG. BM. BN BTM. (BOT)	BASE CABINET BENCH MARK BETWEEN BOTTOM OF BOTH SIDES BRITISH THERMAL UNIT BUILT-UP ROOFING BACK BLOCK BLOCKING BEAM BOUNDARY NAIL BOTTOM	E. E.I.F.S. E.S. E.W. EA. EN ELECT. ELEV. ENCL. EQ. EQUIP. EXIST. (E) * EXP. AGG. EXP. JT. (EJ) EXT. EXTR.	EAST EXTERIOR INSULATION & FINISH SYSTEM EACH SIDE EACH WAY EACH EDGE NAIL ELECTRICAL ELEVATION ENCLOSURE EQUAL EQUIPMENT EXISTING EXPANSION EXPOSED AGGREGATE EXPANSION JOINT EXTERIOR EXTRUDED	H.B. H.C. H.M. H.M.F. H.P. H.W. HD. HDR HGR HDWD. HDWR. HORIZ. HR. HSB HT. HWY.	HOSE BIB HANDICAPPED OR HOLLOW CORE HOLLOW METAL HOLLOW METAL FRAME HIGH POINT HOT WATER HAND HEADER HANGER HARDWOOD HARDWARE HORIZONTAL HOUR HIGH STRENGTH BOLT HEIGHT HIGHWAY	pc P.LAM. P.T.D. PART. PL. PLAST. PLYWD. PR. PRE. ENG. PREFAB. PROJ. PSF. PT. Q.T.	PIECES PARTIAL PENETRATION PLASTIC LAMINATE PAPER TOWEL DISPENSER PARTITION PLASTER PLASTER PLYWOOD PAIR PREVIOUSLY ENGINEERED* PRE- FABRICATED* PROJECT POUNDS PER SQUARE FOOT POINT PRESSURE TREATED QUARRY TILE	T&G T.B. T.BD. T.I. T.O. T.O.C. T.O.S. TEL TEMP. TERR. THK. THRU. TRANSV. TS. TV. TYP.	TONGUE AND GROOVE TOWEL BAR TACK BOARD TENANT IMPROVEMENT TOP OF TOP OF CURB TOP OF STEEL TELEPHONE TEMPORARY TERRAZZO THICK THROUGH TRANSVERSE TUBE STEEL TELEVISION TYPICAL
C TO C (CC) C.B. C.I. C.I.P. C.J. C.M.P. C.M.U. C.R. C.R.C. C.T. CAB. CEMT. CER. CH.B. CIRC. CL. CLG. CLKG. CLOS. CLR. COL. COMM. COMP. CP CONC. CONN. CONST.	CENTER TO CENTER CATCH BASIN CAST IRON CAST IRON PIPE CONTROL JOINT OR CONSTRUCTION JOINT CORRUGATED METAL PIPE CONCRETE MASONRY UNITS COLD ROLLED COLD ROLLED CHANNEL CERAMIC TILE CABINET CEMENT CERAMIC CHALK BOARD CIRCULAR CENTER LINE CEILING CAULKING CLOSET CLEAR COLUMN COMMUNICATION COMPOSITION COMPLETE PENETRATION CONCRETE CONNECTION CONSTRUCTION	F TO F F.B. FB F.C F.D. F.E. F.E.C. F.F. F.F.C. * F.F.E. F.H.C. F.L.	FACE TO FACE FLAT BAR FACE OF BLOCK* FACE OF CONCRETE FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FACTORY FINISH* FINISH FLOOR* FINISHED FLOOR ELEVATION FIRE HOSE CABINET FLOOR LINE	I.D. IN INCL. INSUL. INT. JAN. JH JT. KIT. LS LT WT L.L.	INSIDE DIAMETER INCH INCLUDE INSULATE INTERIOR JANITOR JOIST HANGER JOINT KITCHEN LAG SCREW LIGHT WEIGHT LIVE LOAD	R RDWD RCP R.D. R.H. R.L. R.O. R.O.W. RAD. REF. REFR. REINF. REQ. REQ'D RESIL. REV.	RISER REDWOOD REFLECTED CEILING PLAN ROOF DRAIN RIGHT HAND RAIL LEADER ROUGH OPENING RIGHT OF WAY RADIUS REFERENCE REFRIGERATOR REINFORCING, REINFORCEMENT, REINFORCED REQUIRED RESILIENT REVERSED	U.L. U.O.N. UNFIN. V.B. V.C.T. V.I.F. V.T. VACUUM VERT. VEST. VFY.	UNDRWRITERS LABORATORIES UNLESS OTHERWISE NOTED UNFINISHED VAPOR BARRIER VINYL COMPOSITION TILE VERIFY IN FIELD VINYL TILE VACUUM VERTICAL VESTIBULE VERIFY



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250 H Street
Anchorage, AK 99501
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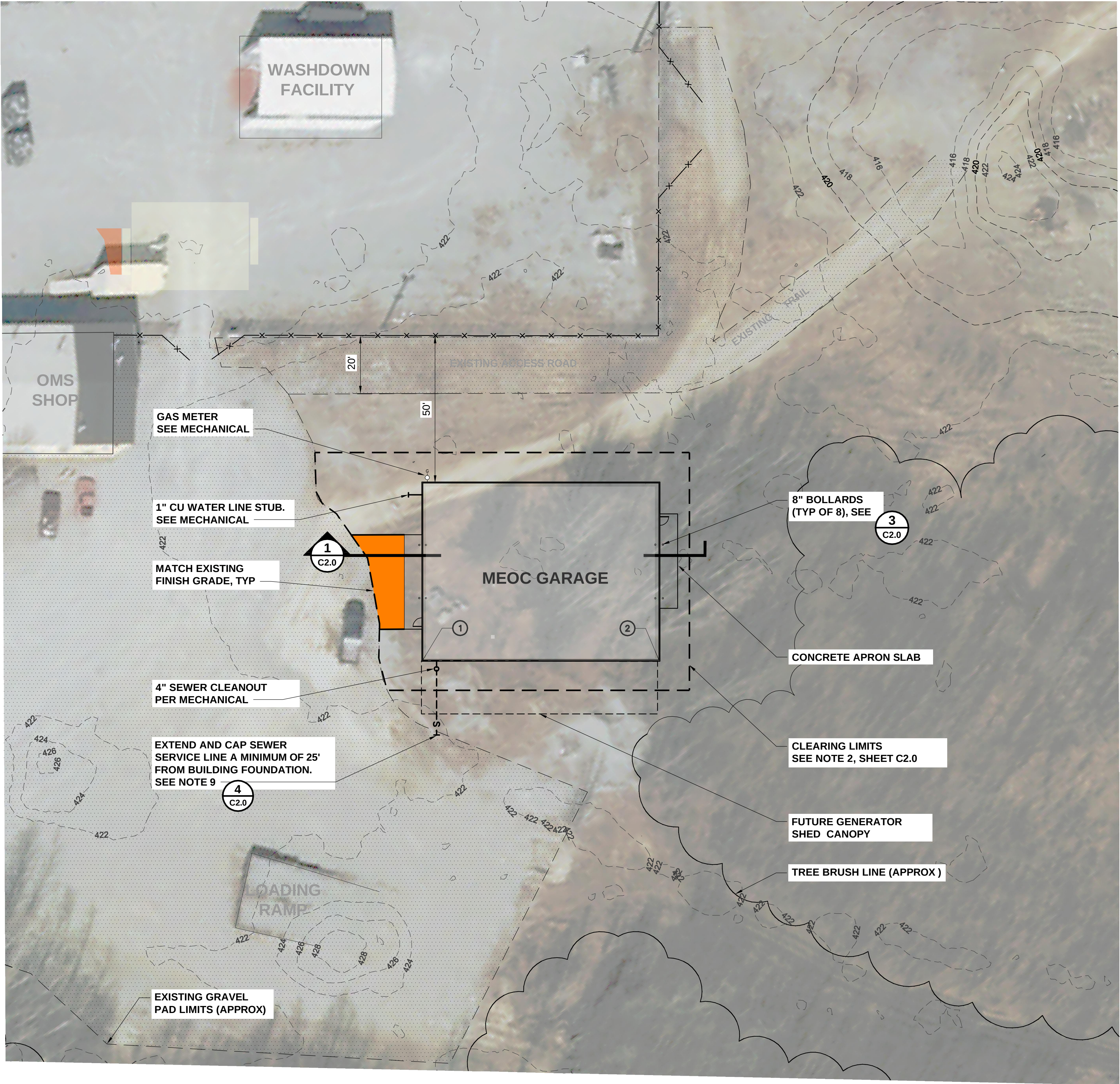
DMVA

ALCANTRA MEOC VEHICLE
GARAGE, WASILLA, AK

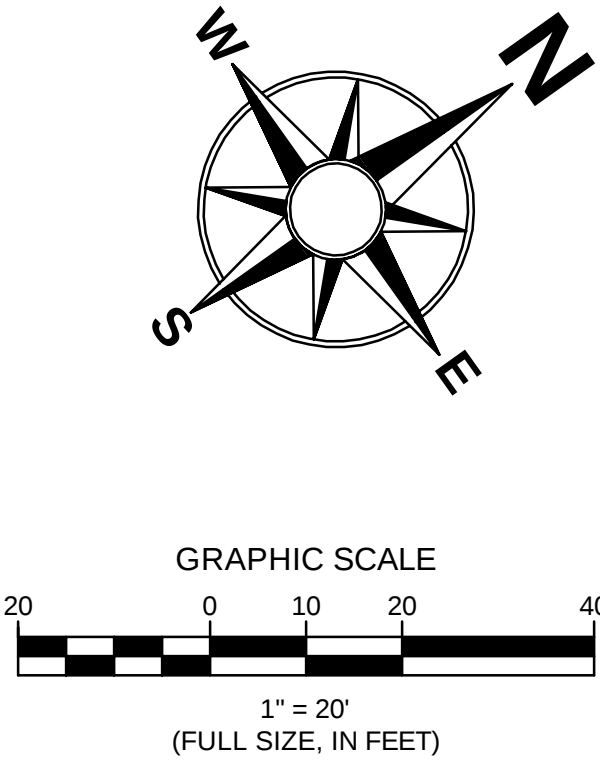
OVERALL SITE PLAN

SCALE:	AS SHOWN
DESIGNED BY:	DM
DRAWN BY:	CS
CHECKED BY:	DRC
DATE:	4/24/15
FILE NO.	859.09
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Plotted By: Curtis
Date/Time: 24 Apr 2015 4:21 pm
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1 SITE PLAN
C1.0



LEGEND

- EXISTING GRAVEL SURFACE
- GRAVEL FILL
- EXISTING CHAINLINK FENCE
- CLEARING LIMITS

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF ALASKA DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (SSFHC) 2015.
- NO FIELD SURVEYS OR UTILITY LOCATES WERE PERFORMED FOR THIS PROJECT.ALL EXISTING TOPOGRAPHIC AND PLANIMETRIC DATA SHOWN IN THE SITE PLAN ARE BASED ON DATABASE INFORMATION OBTAINED FROM THE STATE OF ALASKA AND THE MAT-SU BOROUGH.
- LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN UTILITY FIELD LOCATIONS PRIOR TO EXCAVATIONS OR GRADING ACTIVITIES AND VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND SHALL RECORD SAME ON CONTRACTOR RECORD DRAWINGS.
- ASPHALT PAVING IS NOT INCLUDED IN THIS PROJECT.
- ALL EXISTING SITE IMPROVEMENTS SHALL BE LEFT IN PLACE. DO NOT DISTURB EXISTING SITE IMPROVEMENTS.
- SITE SHALL BE GRADED WITHIN CLEARING LIMITS TO DRAIN AWAY FROM PROPOSED BUILDING AT 3% MIN AS NOTED. DRAINAGE SHALL NOT DISTURB EXISTING SITE IMPROVEMENTS. MATCH EXISTING SITE ELEVATIONS AT EDGE OF SITE AS SPECIFIED PER PLAN.
- ELEVATIONS OF EXISTING CONTOURS ARE APPROXIMATE AND NOT BASED ON ACTUAL SURVEY DATA. CONTOURS ARE FROM AEROMETRIC LIDAR DATA, JUNE 2012 AERIAL.
- SEWER SERVICE SHALL BE PVC PIPE IN ACCORDANCE WITH SECTION 706 OF THE STATE OF ALASKA SSFHC 2015.
- SEWER SERVICE PIPE SHALL EXTEND 5' MINIMUM BEYOND THE FUTURE GENERATOR SHED FOUNDATION AT A 2% MINIMUM SLOPE. INSTALL A 2"x4" WOOD POST PAINTED GREEN AND STENCILED WITH THE WORD "SEWER" 3' ABOVE FINISHED GRADE.

BUILDING COORDINATES		
	NORTHING	EASTING
1	2778373.43	1751248.89
2	2778437.85	1751296.33



NO.	DATE	BY	REVISION

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P (907) 243-8985
F (907) 243-5629
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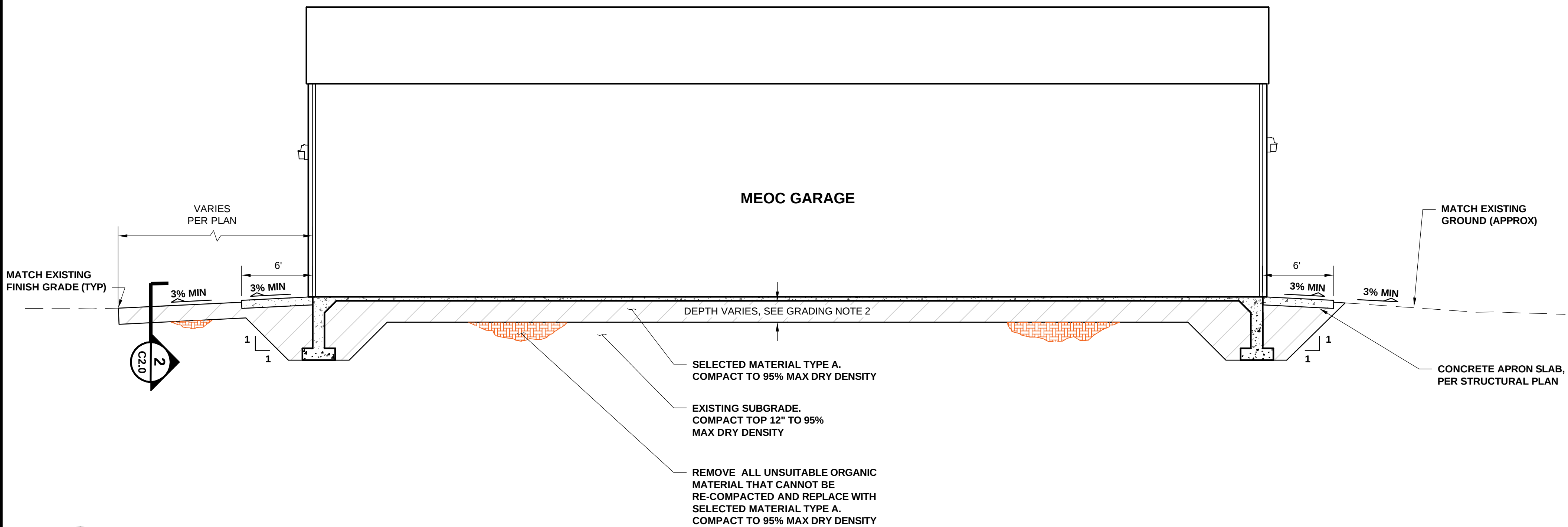
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ALCONTRA MEOC VEHICLE
GARAGE, WASILLA, AK

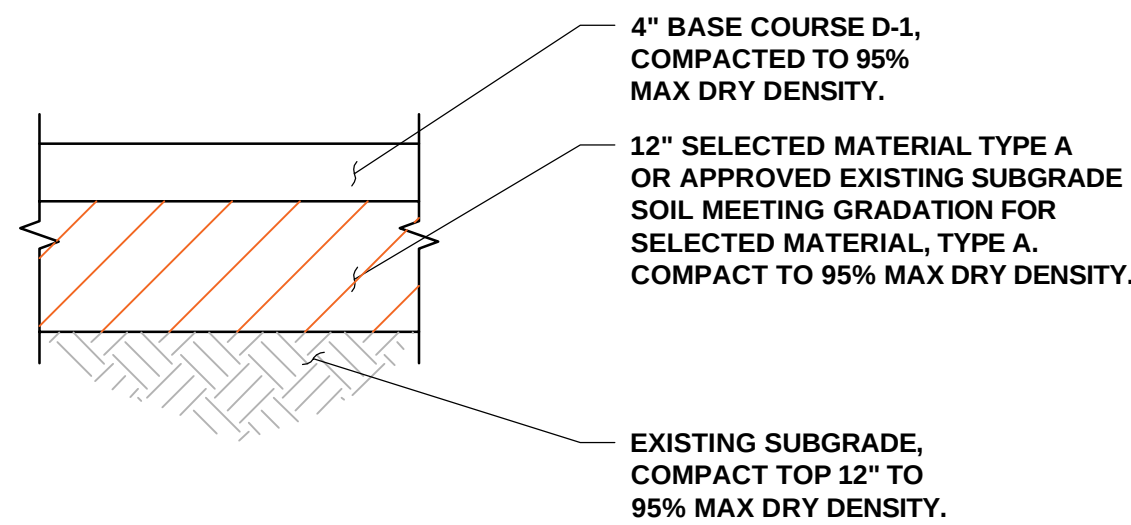
SITE PLAN

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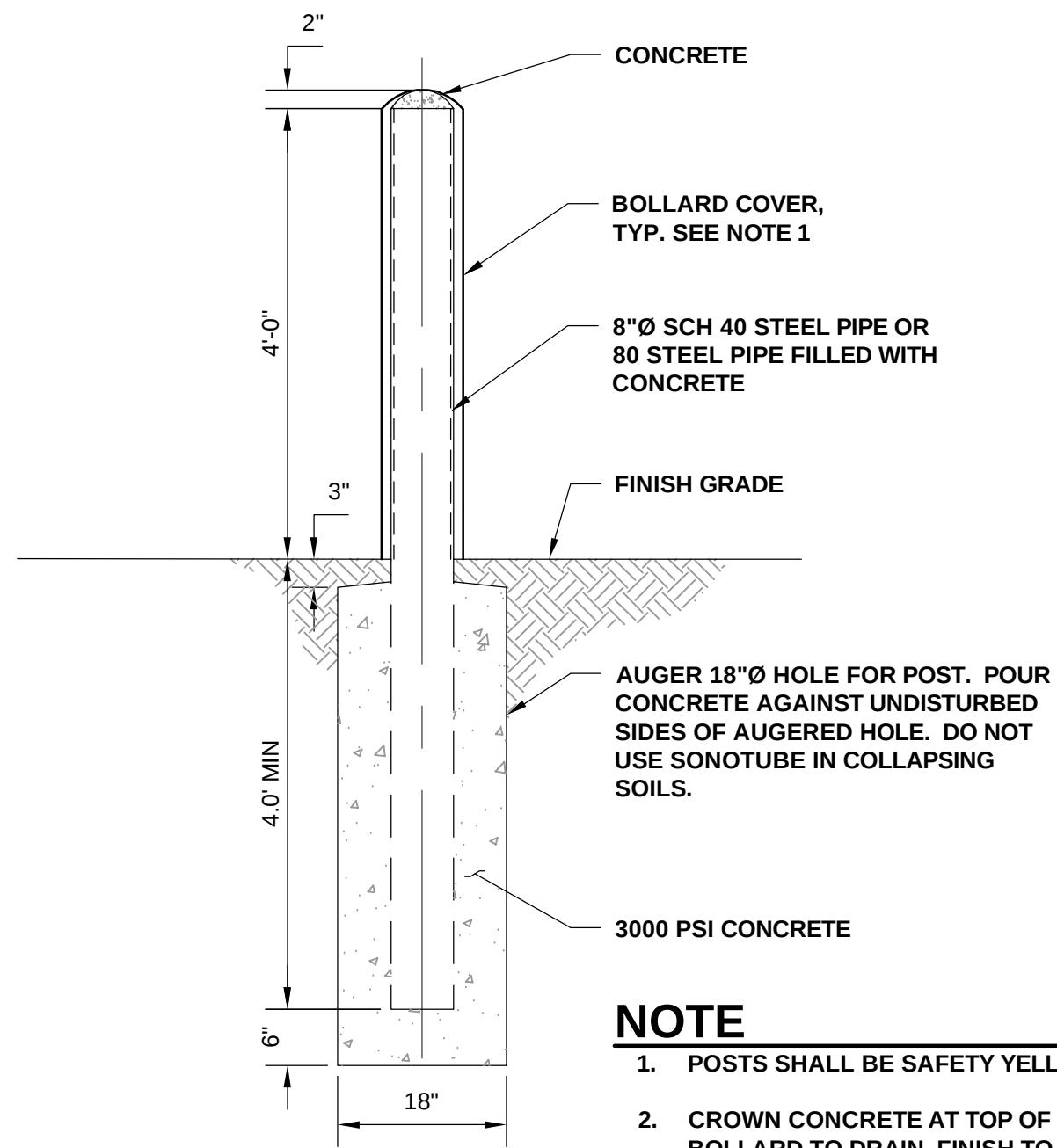
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1 GRADING SECTION
C2.0 SCALE: 1" = 6'

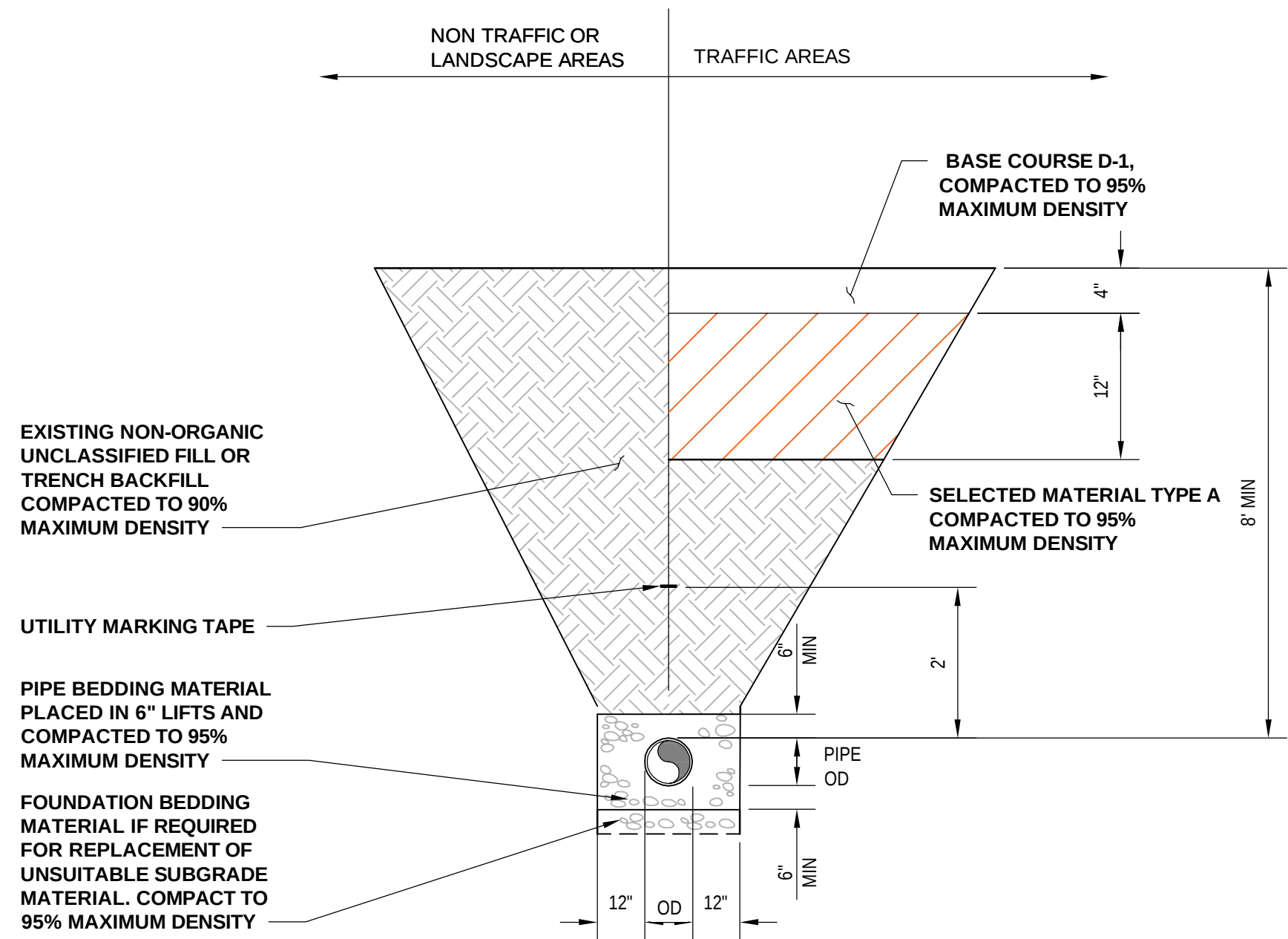


2 TYPICAL GRAVEL PAD SECTION
C2.0 SCALE: NTS



3 BOLLARD DETAIL
C2.0 SCALE: 1" = 1'

- NOTE**
1. POSTS SHALL BE SAFETY YELLOW.
 2. CROWN CONCRETE AT TOP OF BOLLARD TO DRAIN. FINISH TO SMOOTH SURFACE.
 3. CENTER PIPE IN AUGERED HOLE.



4 TYPICAL GRAVITY SEWER TRENCH SECTION
C2.0 SCALE: NTS

GRADING NOTES

1. ALL STRUCTURAL FILL USED FOR BUILDING FOUNDATION SHALL CONFORM TO THE REQUIREMENTS FOR SELECTED MATERIAL TYPE A PER SECTION 703 OF ADOT SSFHC (2015).
2. CONTRACTOR SHALL REMOVE ALL SURFACE ORGANICS, UNSUITABLE SUBGRADE AND BURIED ORGANICS WITHIN BUILDING AND TRAFFIC AREAS AS INDICATED, PRIOR TO PLACEMENT OF FILL MATERIAL. COMPACT TOP 12" OF SUBGRADE TO 95% MAX DRY DENSITY AND BACKFILL WITH SELECTED MATERIAL TYPE A PER R&M CONSULTANTS GEOTECHNICAL REPORT DATED 3/10/14.



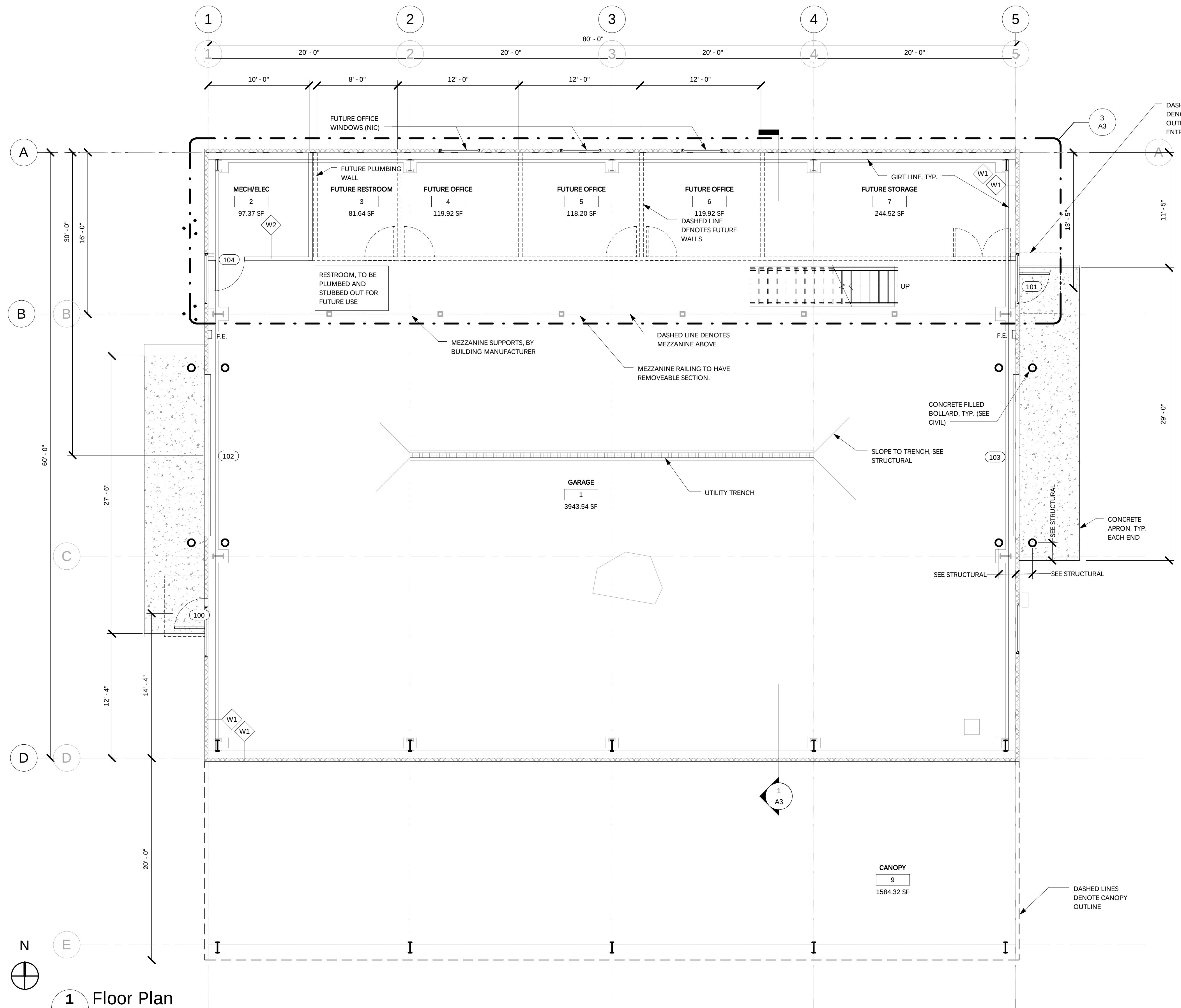
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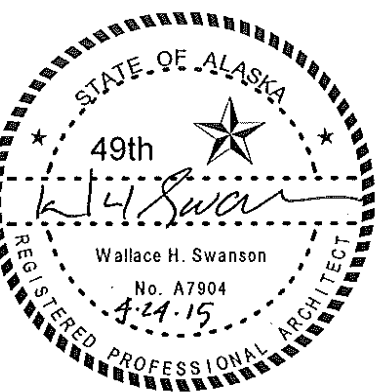
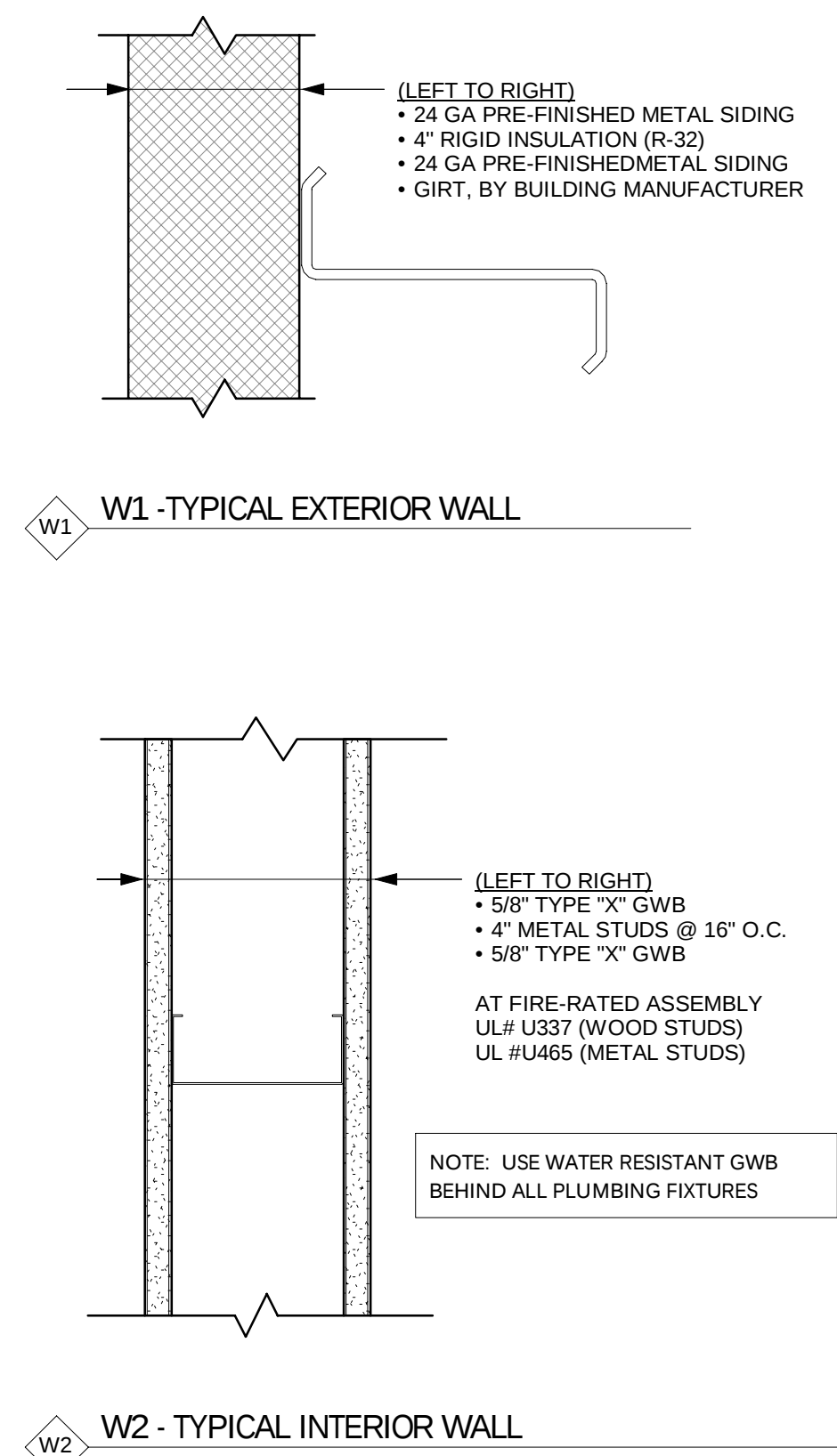
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ALCONTRA MEOC VEHICLE
GARAGE, WASILLA, AK
CIVIL DETAILS

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1 Floor Plan
A1 3/16" = 1'-0"

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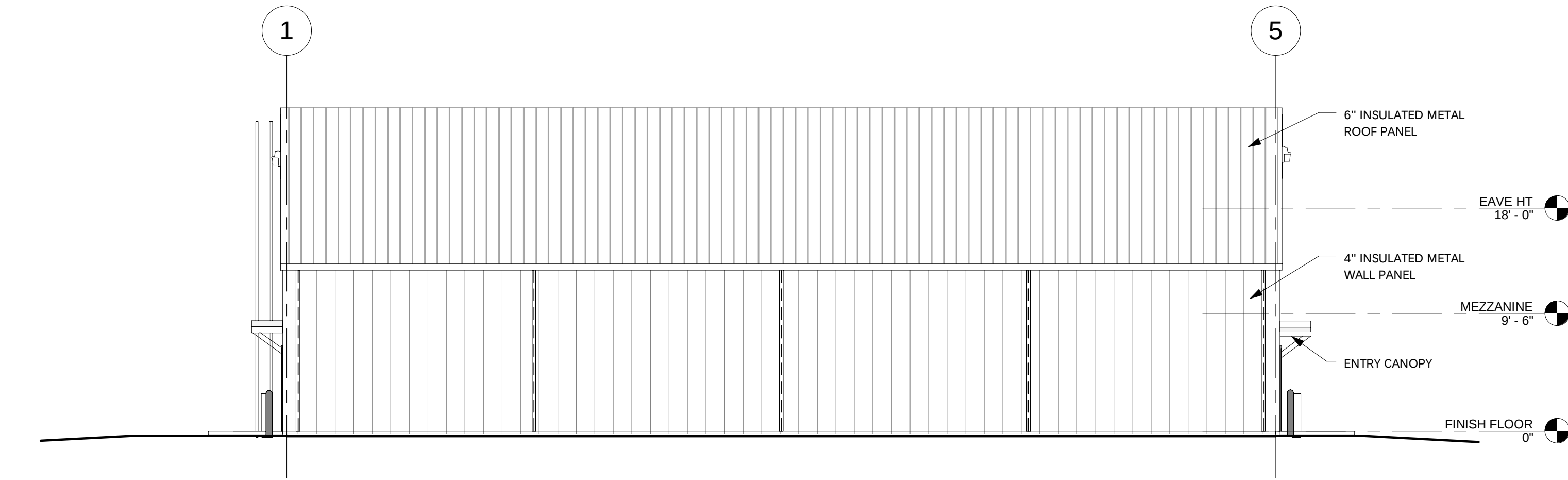
250 H Street
Anchorage, AK 99501
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F: (907) 243-5629
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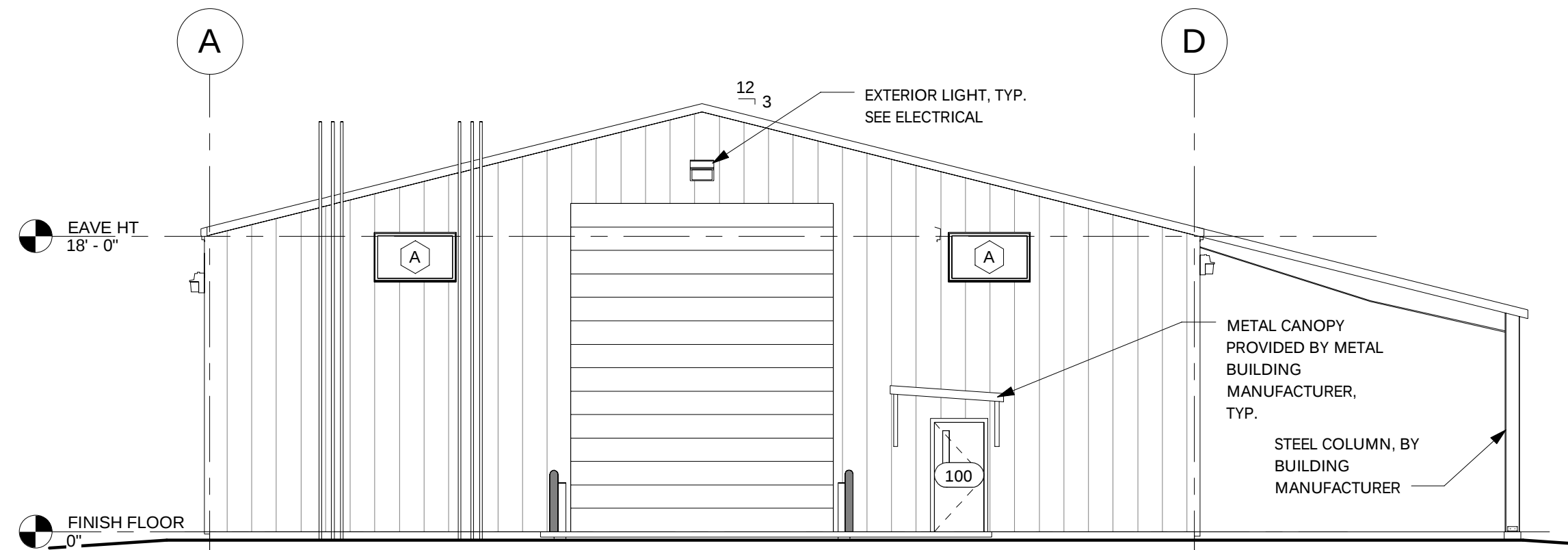
**ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA**

FLOOR PLAN

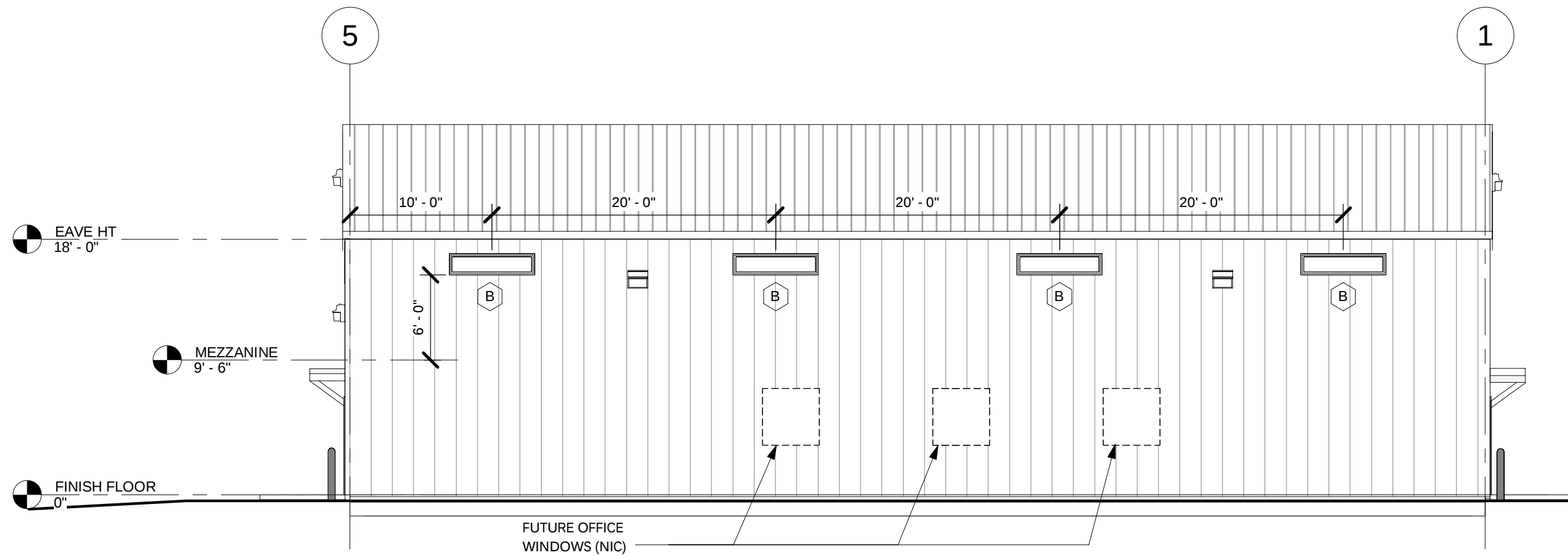
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DRAWN BY:	MDC
CHECKED BY:	WHS
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A1	OF 5



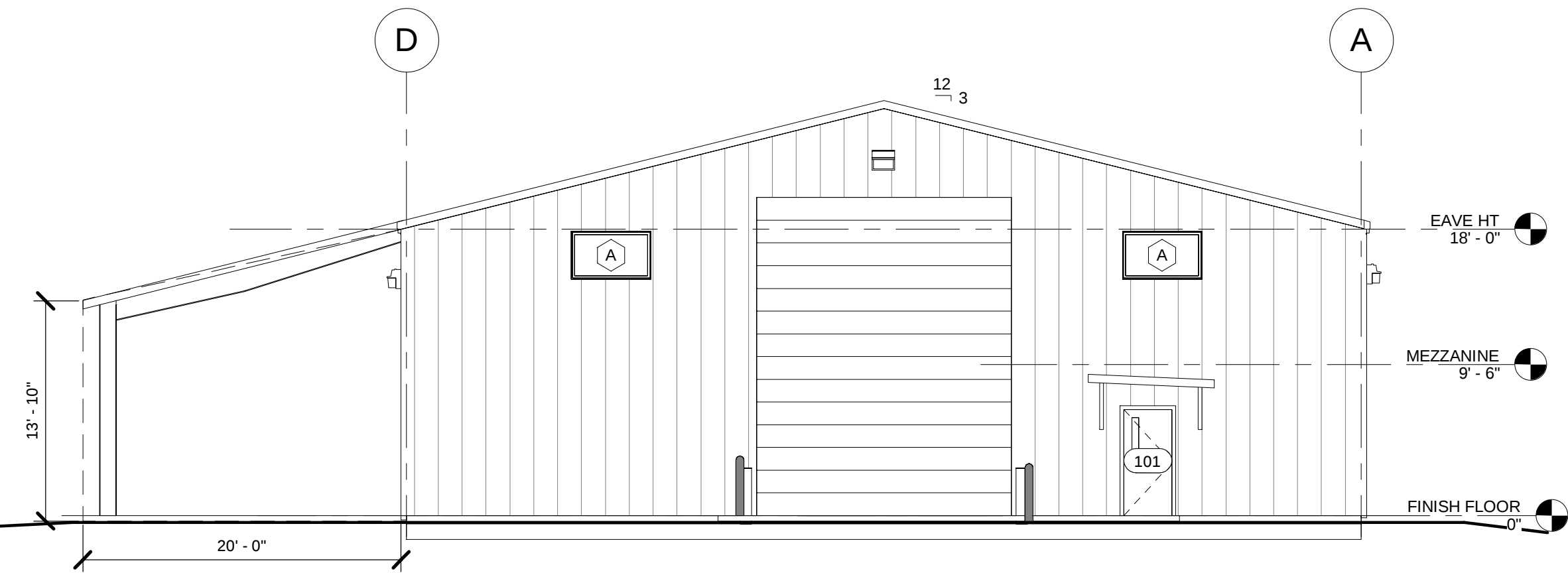
2 SOUTH
A2 1/8" = 1'-0"



1 WEST
A2 1/8" = 1'-0"



3 NORTH
A2 1/8" = 1'-0"



4 EAST
A2 1/8" = 1'-0"

NOTE:
ALL EXTERIOR
WINDOWS TO BE
BLAST RESISTANT.



ONE INCH (1")

NO	DATE	BY	REVISION

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Anchorage, AK 99501
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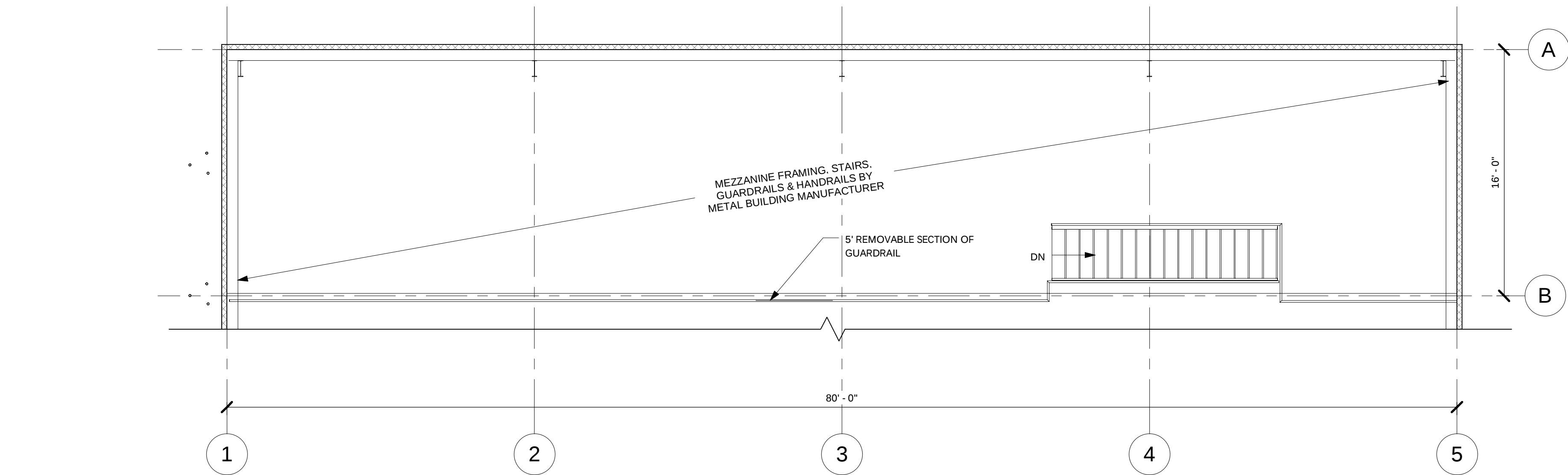
DMVA

ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA

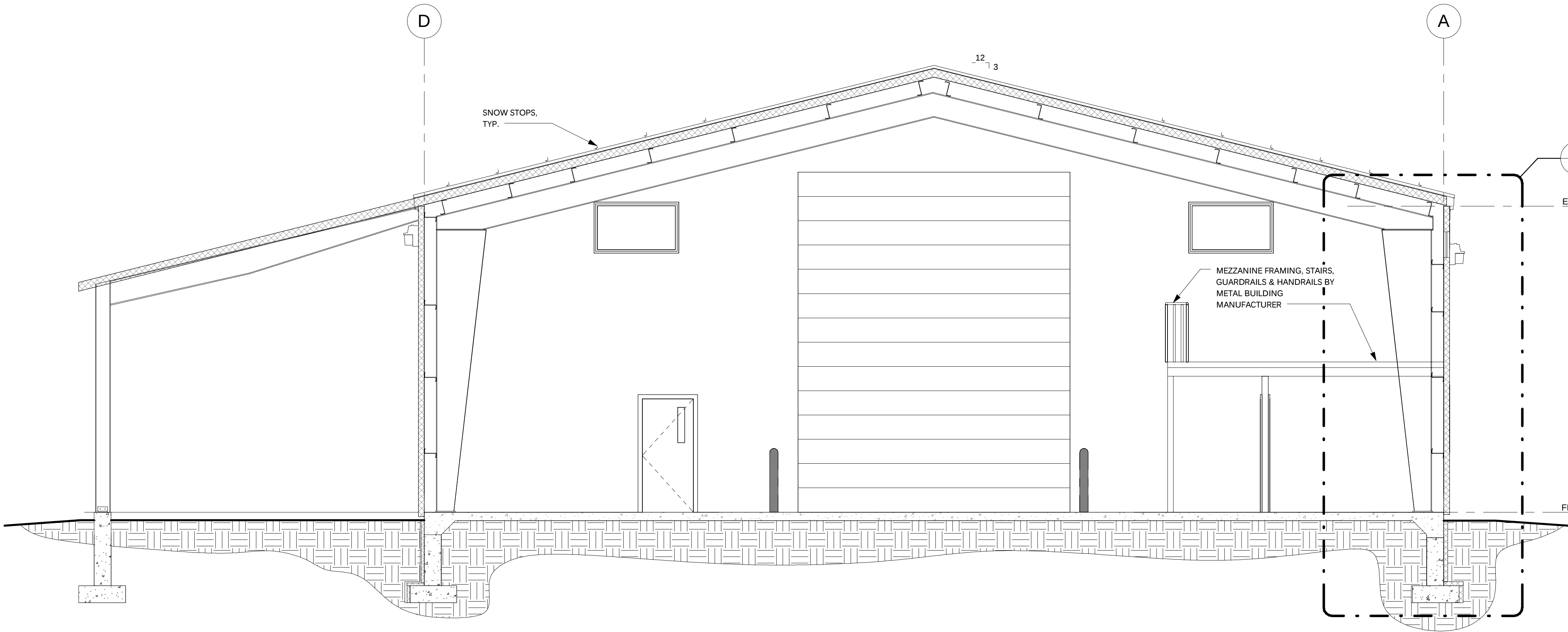
ELEVATIONS

SHEET SIZE:	WHS
DESIGNED BY:	MDC
CHECKED BY:	WHS
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FILE NO.	859.09
SHEET NUMBER	A2 OF 5

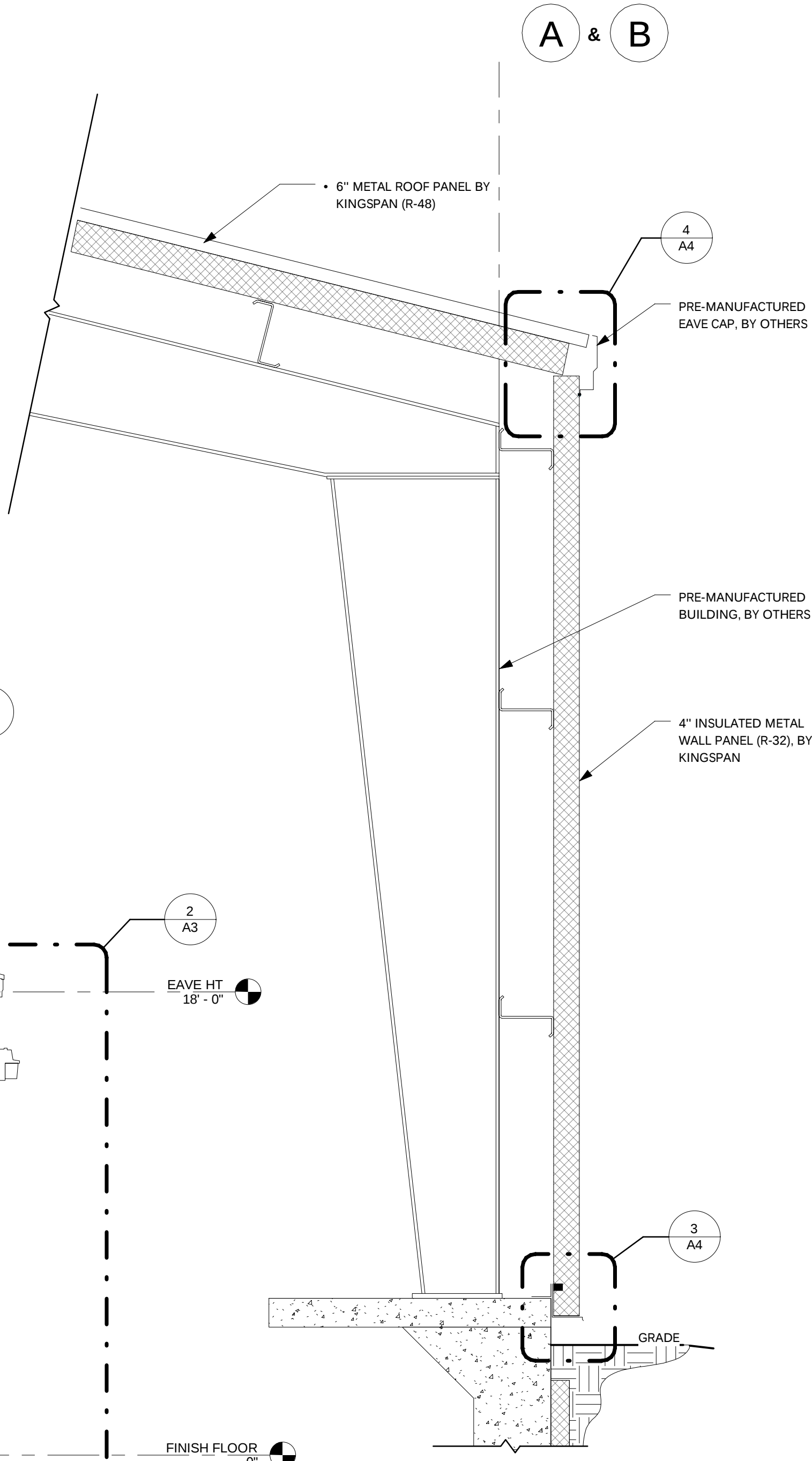
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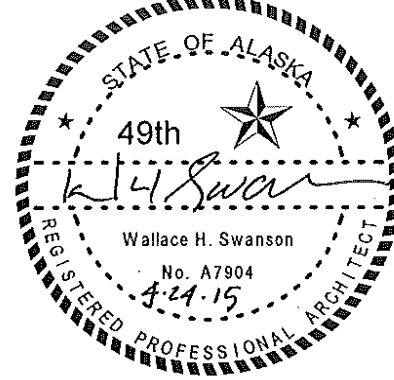
3 MEZZANINE PLAN
A3 3/16" = 1'-0"



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



2 PRE MANUF BLDG COL
A3 3/4" = 1'-0"



ONE INCH (1")			
NO	DATE	BY	REVISION

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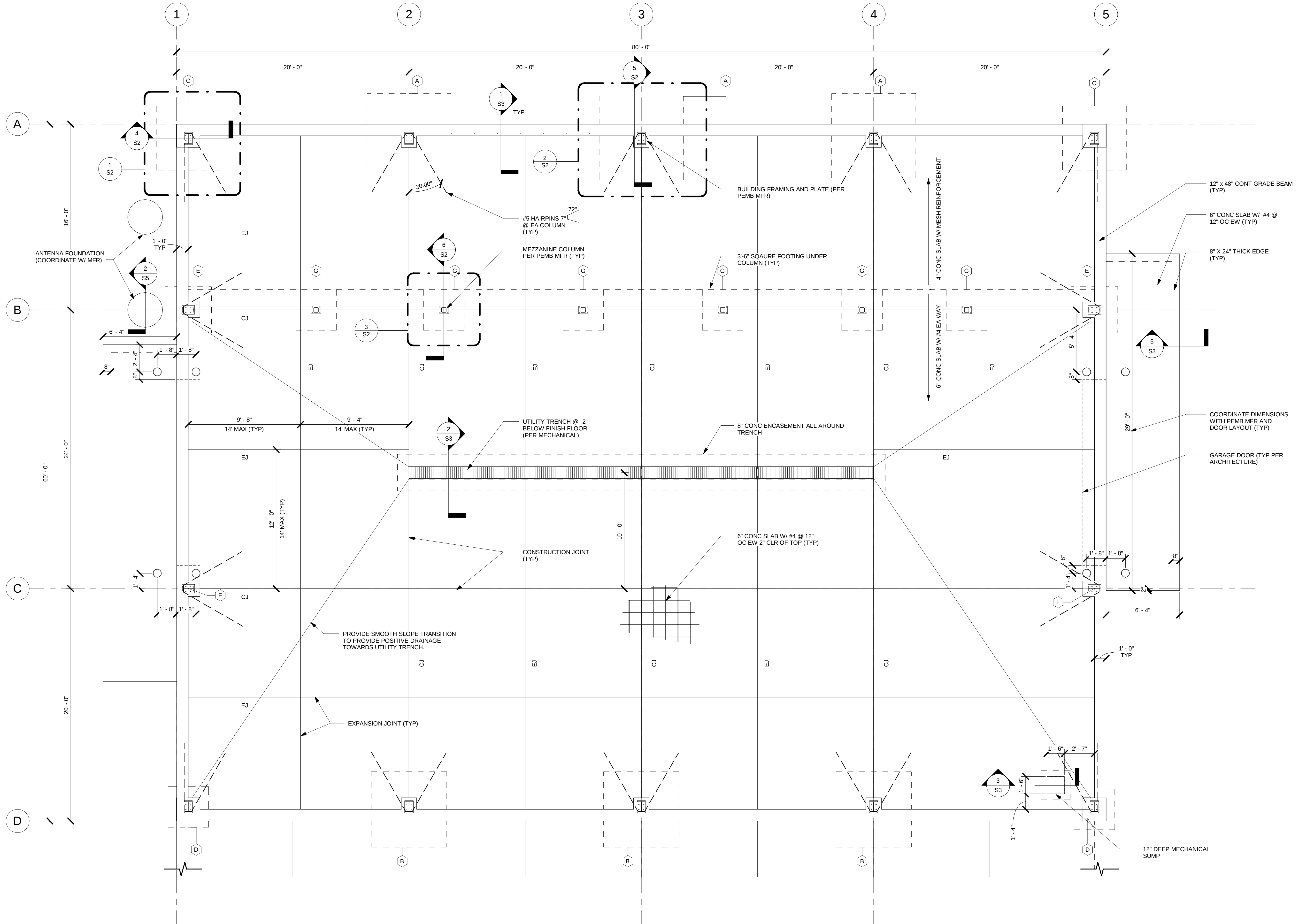
ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA

BUILDING SECTION

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DRAWN BY:	MDC
CHECKED BY:	WHS
DATE:	04/24/2015
FILE NO.	859.09
SHEET NUMBER	
A3	OF 5



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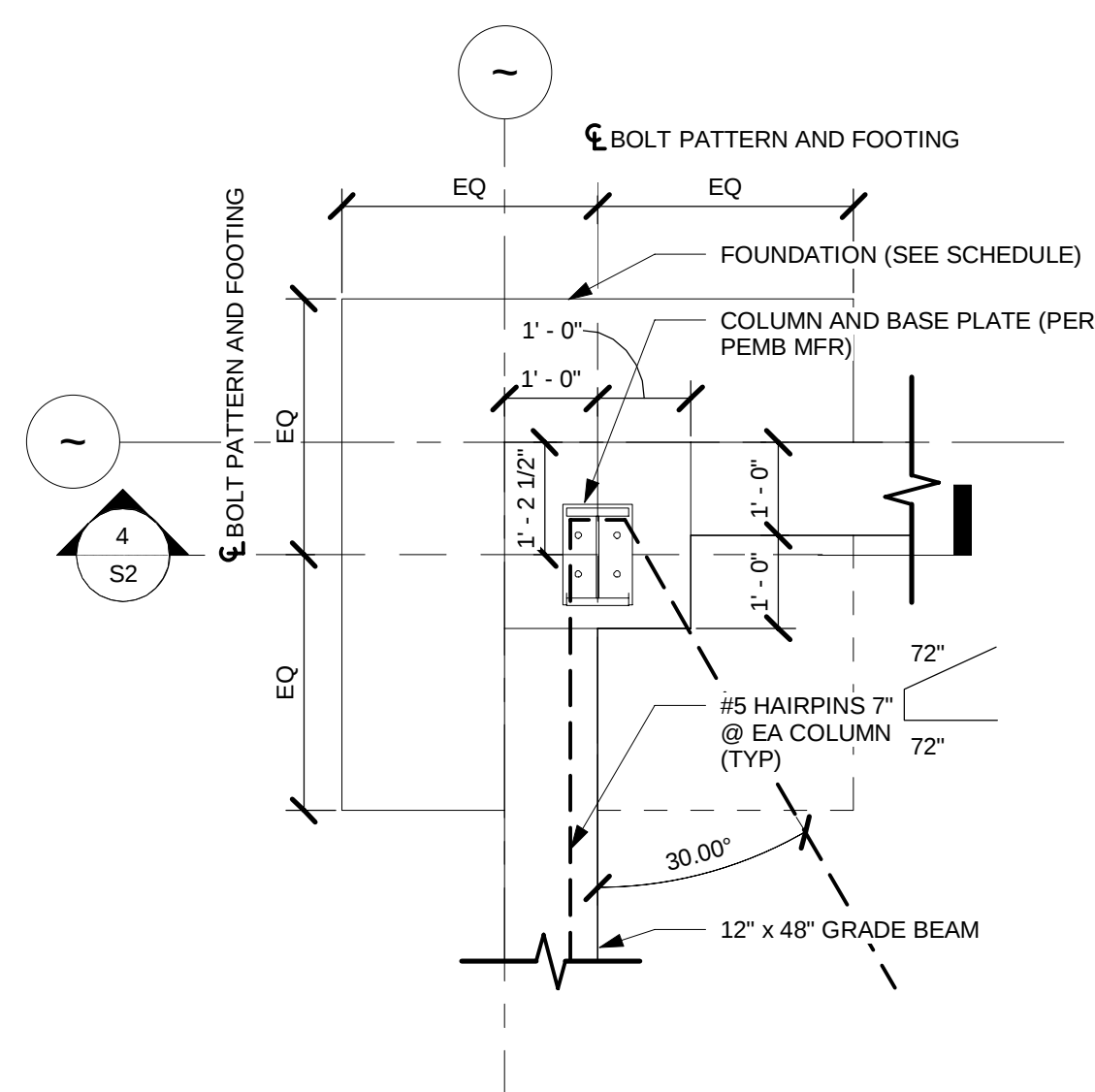
**ALCANTRA MEOC VEHICLE
GARAGE
WASILLA, ALASKA**

FOUNDATION PLAN

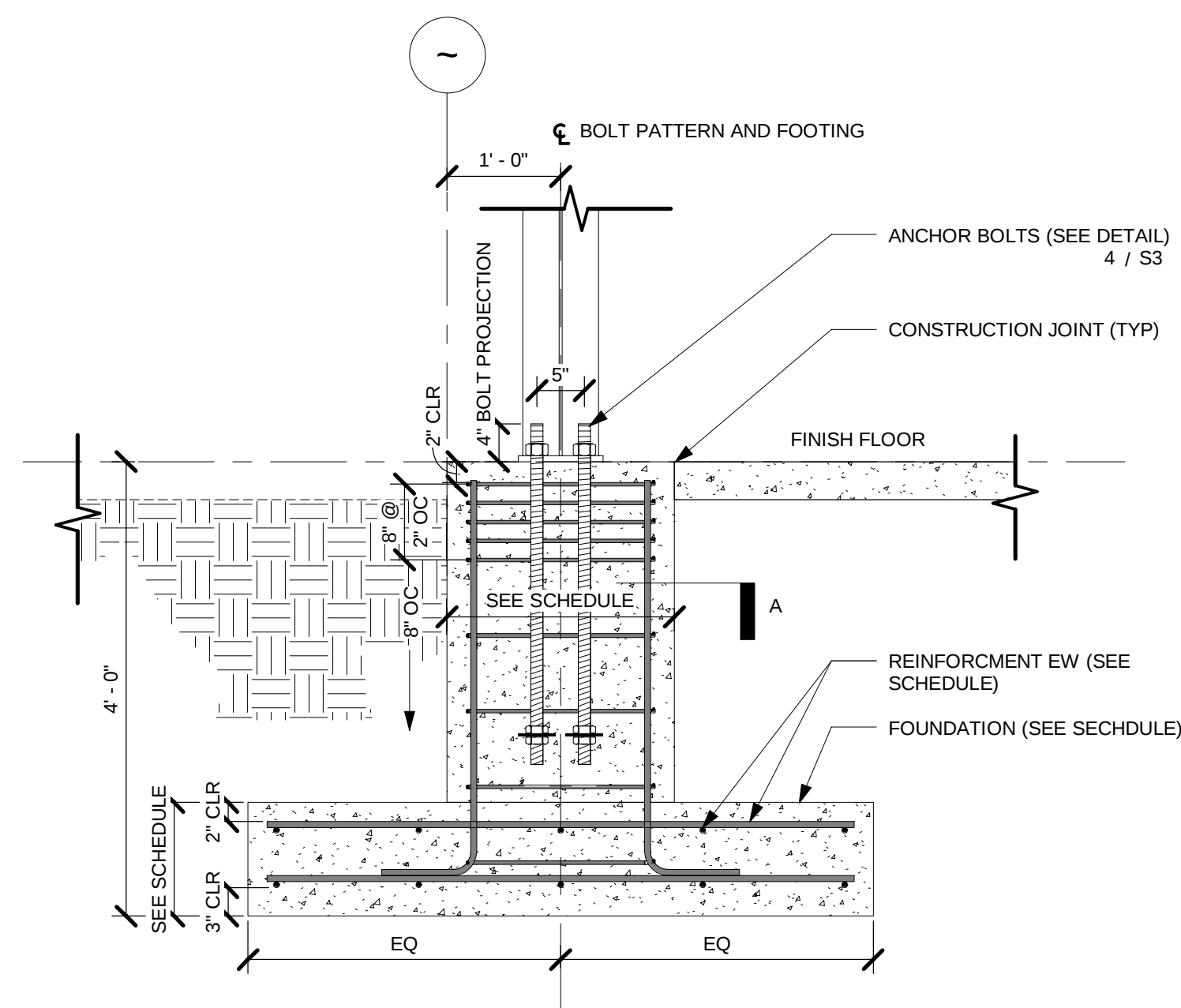
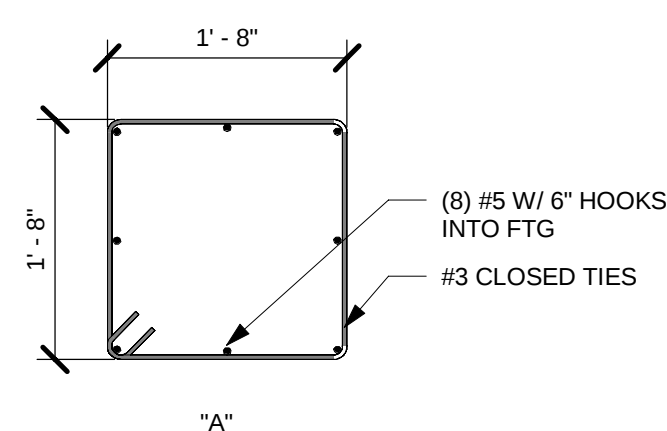
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NO	DATE	BY	REVISION

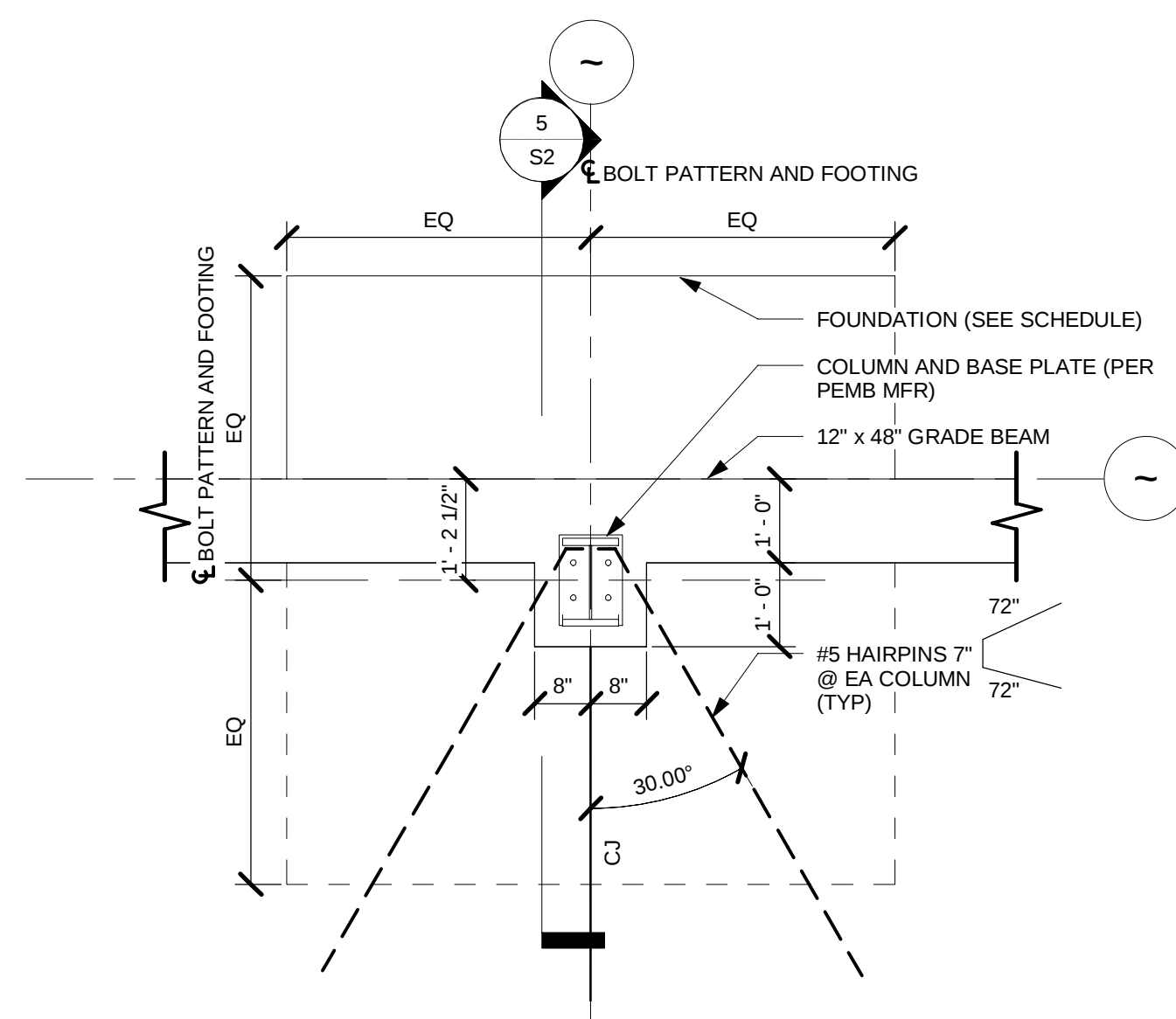
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S1	OF



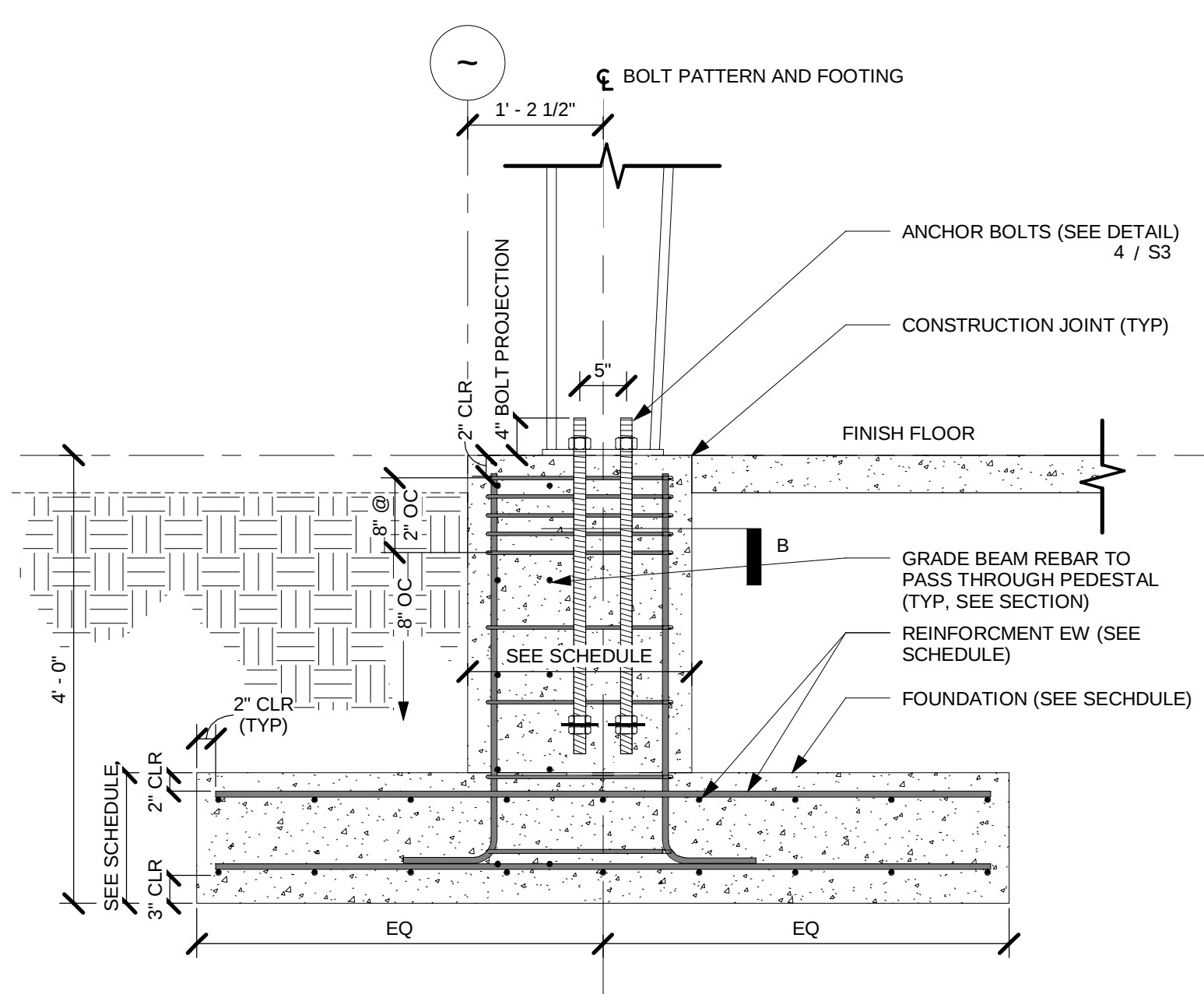
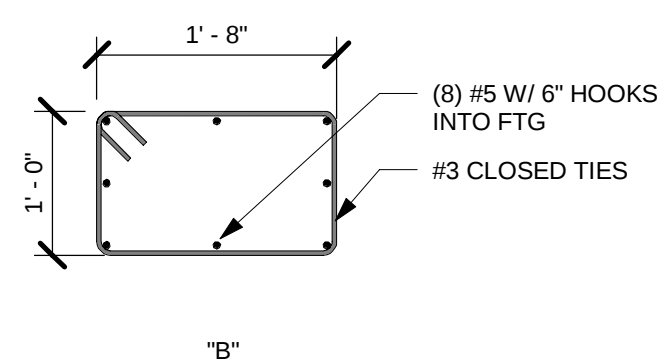
1 CORNER FOUNDATION PLAN C D
S2 1/2" = 1'-0"



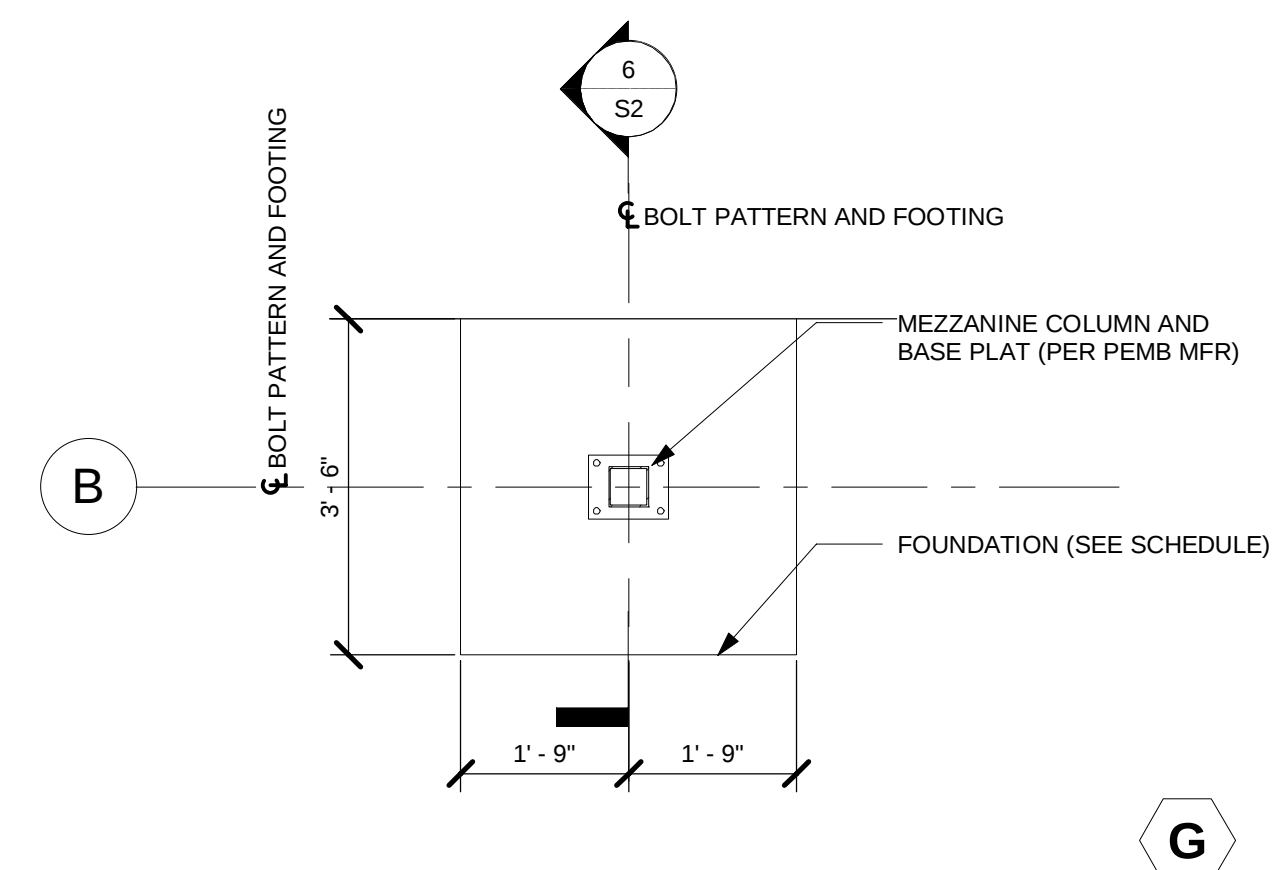
4 CORNER FOUNDATION SECTION



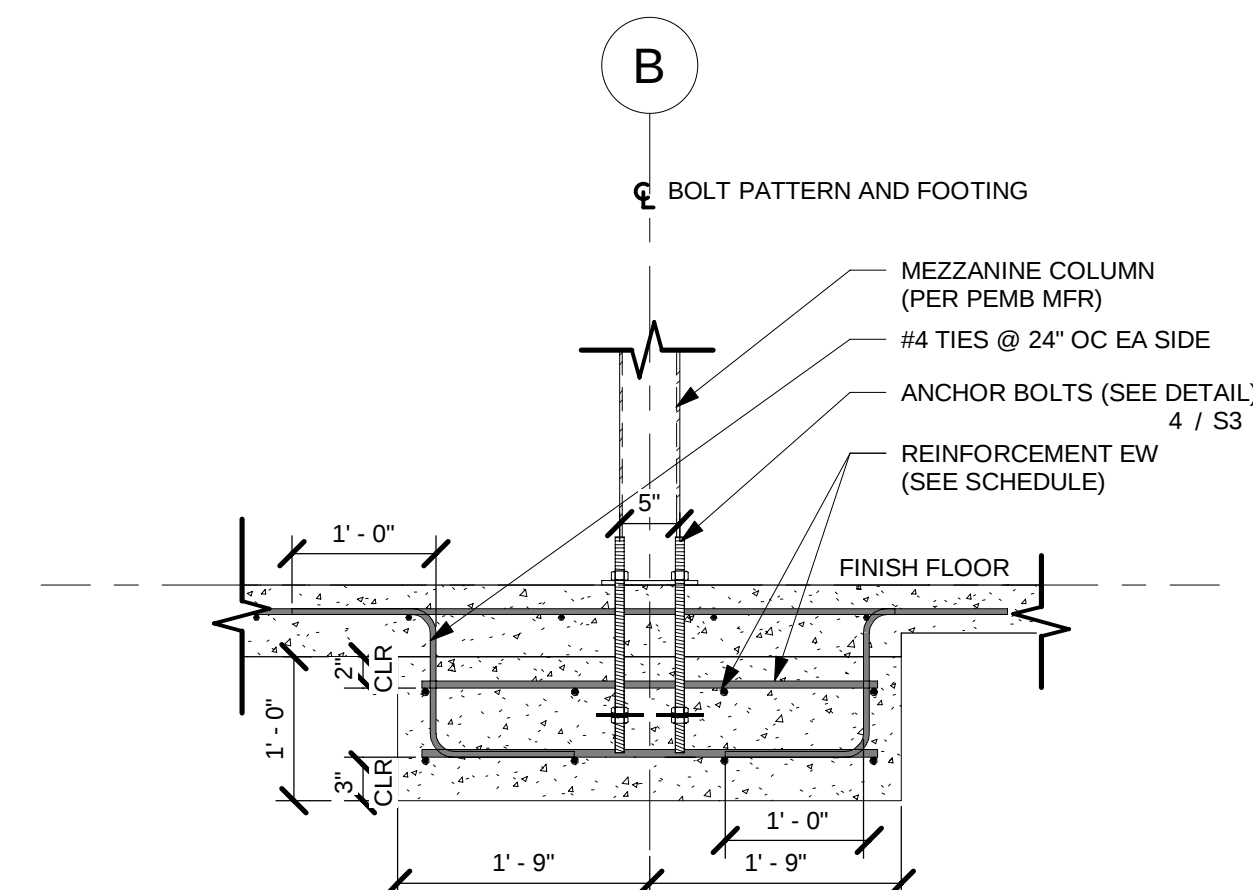
2 FOUNDATION PLAN A B E
S2 1/2" = 1'-0"



5 FOUNDATION SECTION

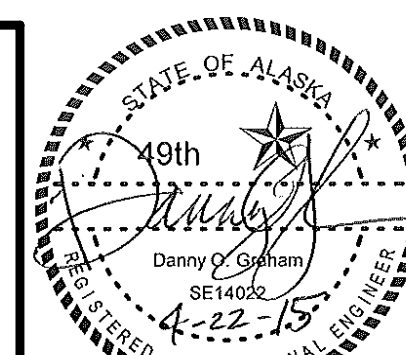


3 MEZZANINE FOOTING PLAN

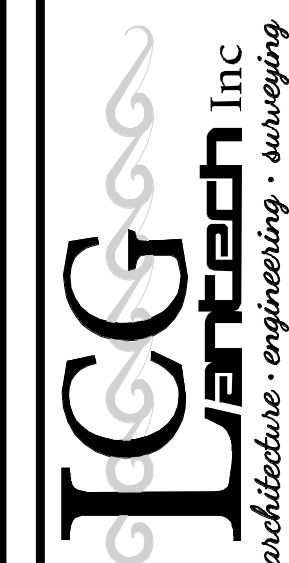


6 MEZZANINE FOOTING SECTION
S2 3/4" = 1'-0"

FOUNDATION SCHEDULE					
Type	Description	Pedestal Size	Anchor Bolt	Reinforcing	Comments
A	7' - 3" SQ x 14" THICK	1' - 4" x 2' - 0"	1 1/4" DIA x 36"	(9) #5 EW T&B	
B	6' - 6" SQ x 14" THICK	1' - 4" x 2' - 0"	1 1/4" DIA x 36"	(7) #5 EW T&B	
C	5' - 6" SQ x 12" THICK	2' - 0" x 2' - 0"	1 1/4" DIA x 36"	(5) #5 EW T&B	
D	3' - 6" SQ x 12" THICK	2' - 0" x 2' - 0"	3/4" DIA x 36"	(4) #5 EW T&B	
E	4' - 0" SQ x 12" THICK	1' - 4" x 2' - 0"	3/4" DIA x 36"	(4) #5 EW T&B	
F	PEDESTAL SIZE	1' 4" x 2' - 0"	3/4" DIA x 36"	N/A	
G	3' - 6" SQ x 12" THICK	NONE	3/4" DIA x 18"	(4) #5 EW T&B	TOP OF FOOTING ELEVATION @ BOTTOM OF SLAB
H	PEIR SIZE	24" Ø	3/4" DIA x 36"	N/A	

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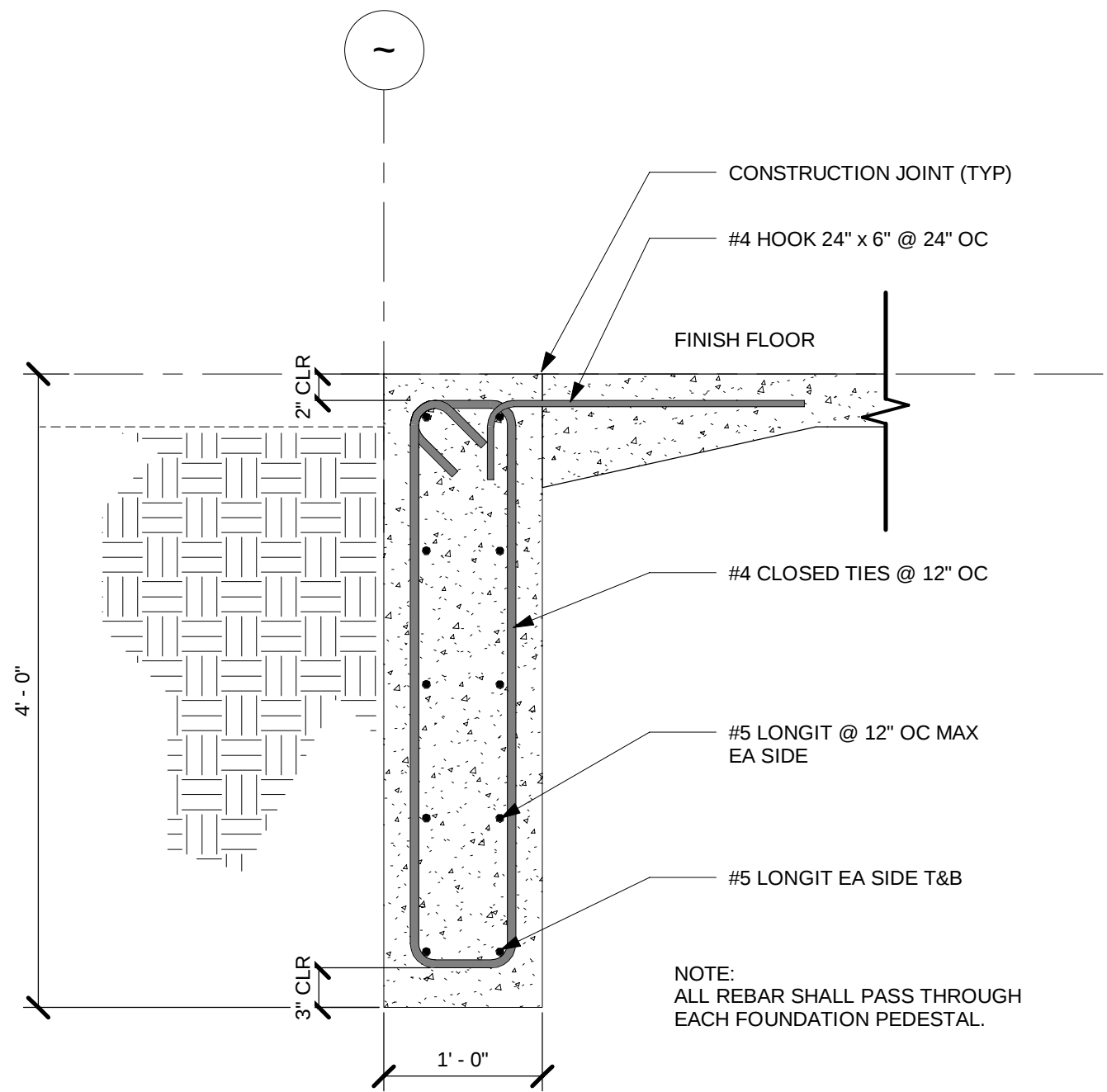
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ALCANTRA MEOC VEHICLE
GARAGE
WASILLA, ALASKA

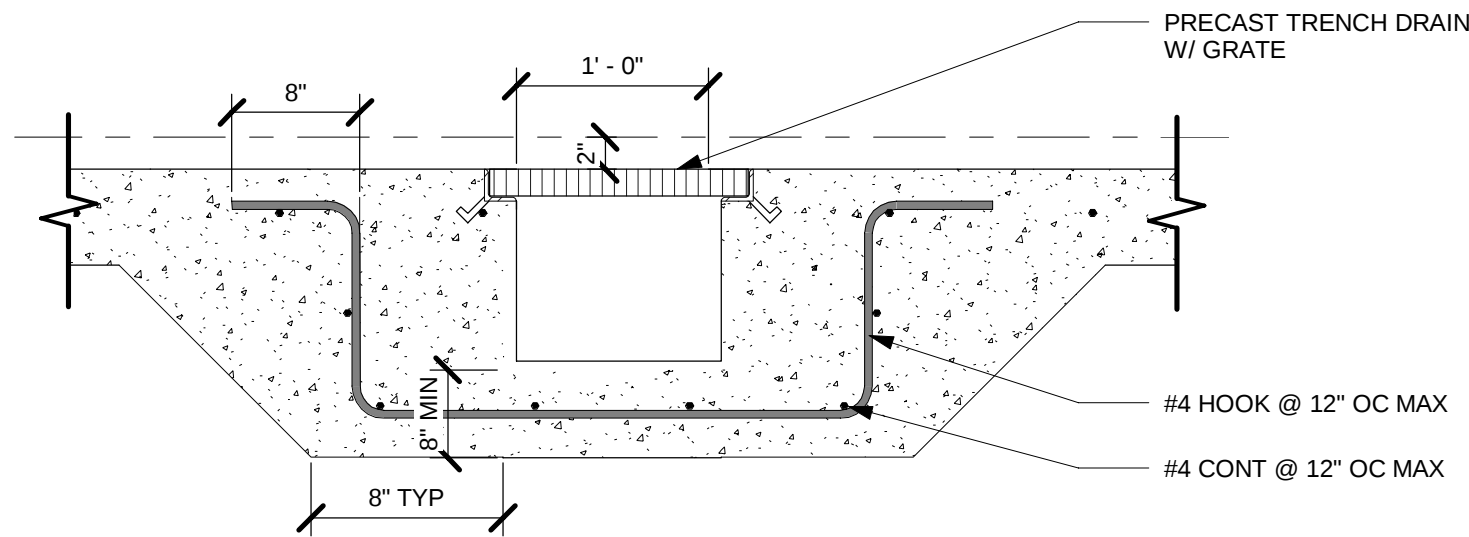
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DRAWN BY:	DM
CHECKED BY:	DG
DATE:	3/20/15
FILE NO.	859.09
SHEET NUMBER	
S2	OF

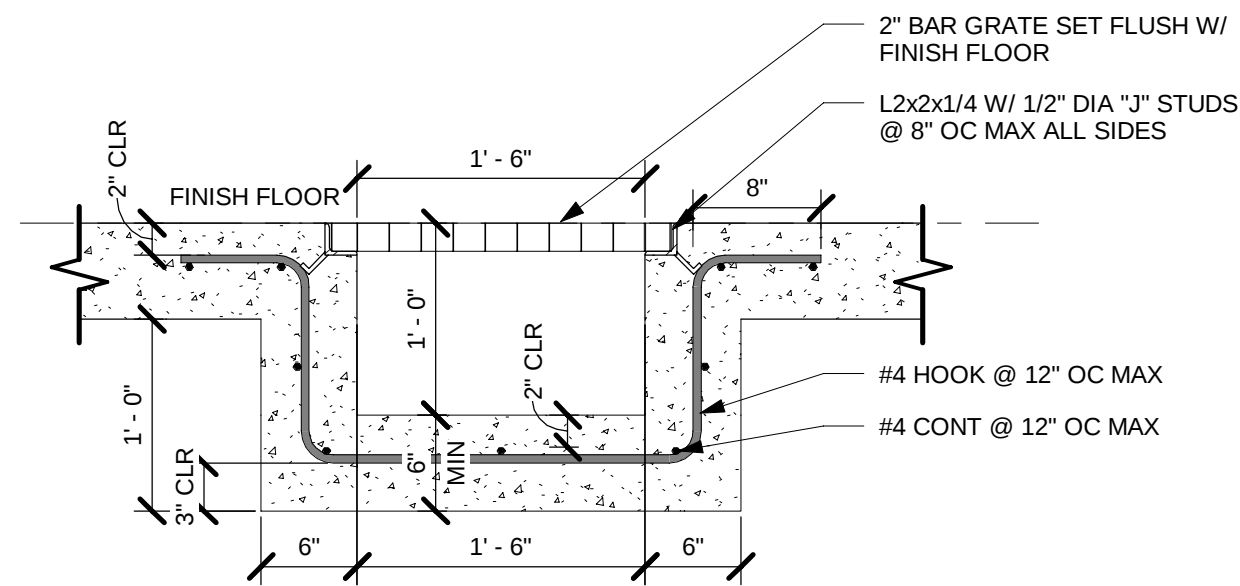
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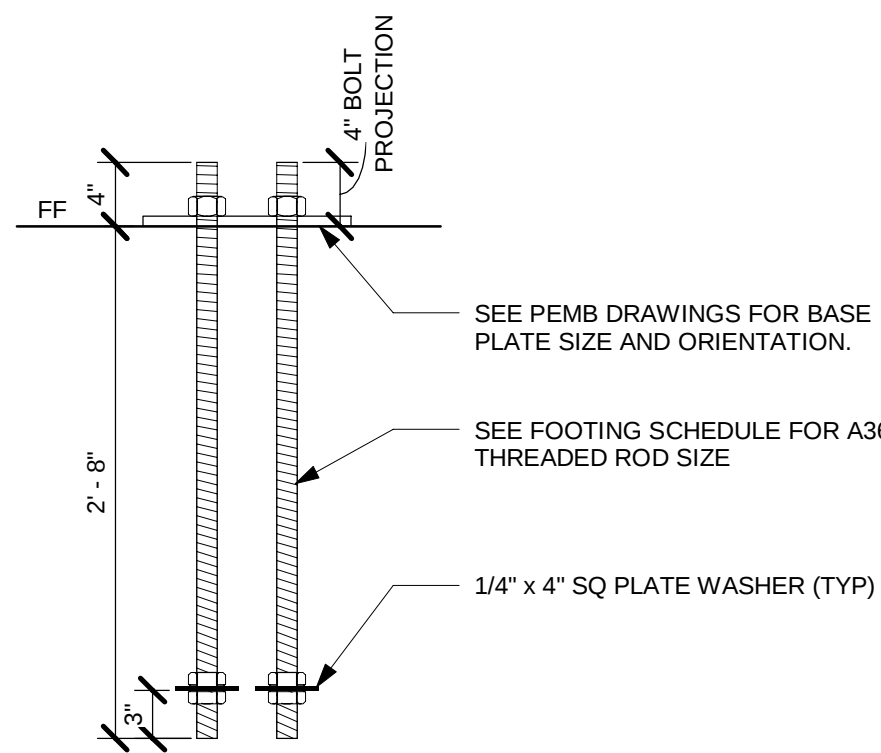
1 GRADE BEAM SECTION
S3 1" = 1'-0"



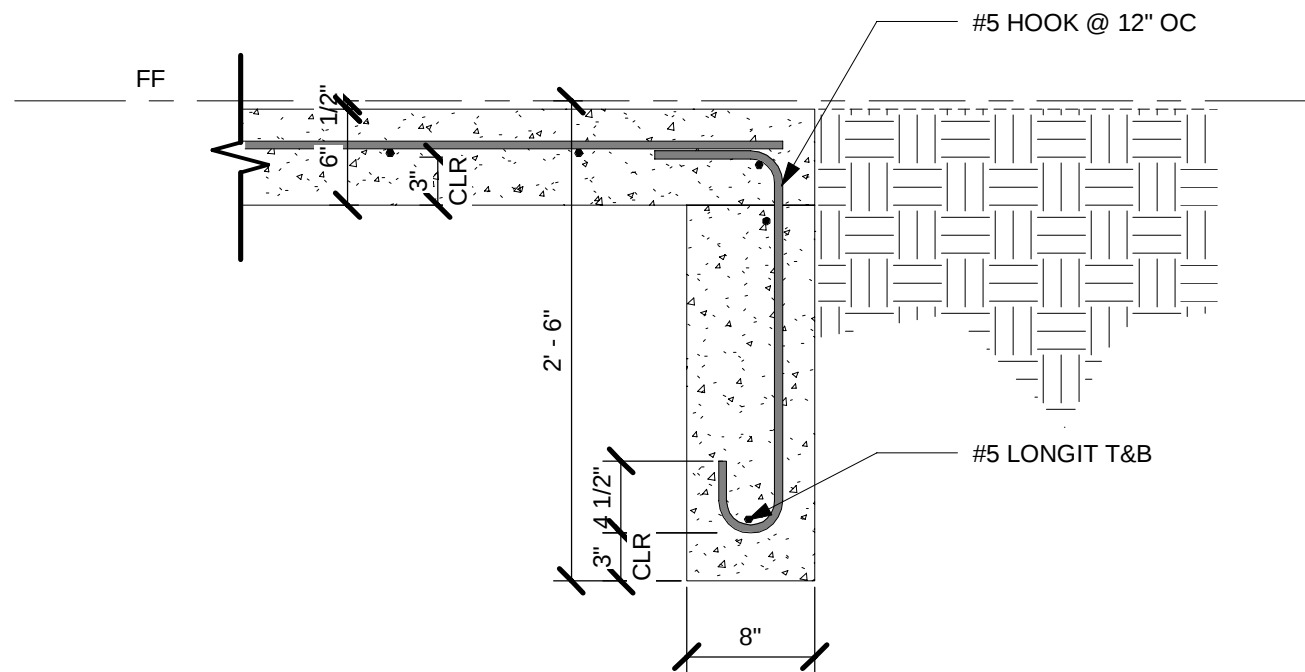
2 TRENCH DRAIN SECTION
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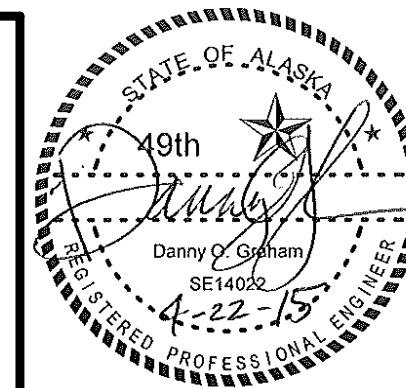
3 MECHANICAL SUMP SECTION
S3 1" = 1'-0"



4 ANCHOR BOLT DETAIL
S3 1" = 1'-0"



5 STOOP EDGE DETAIL
S3 1" = 1'-0"



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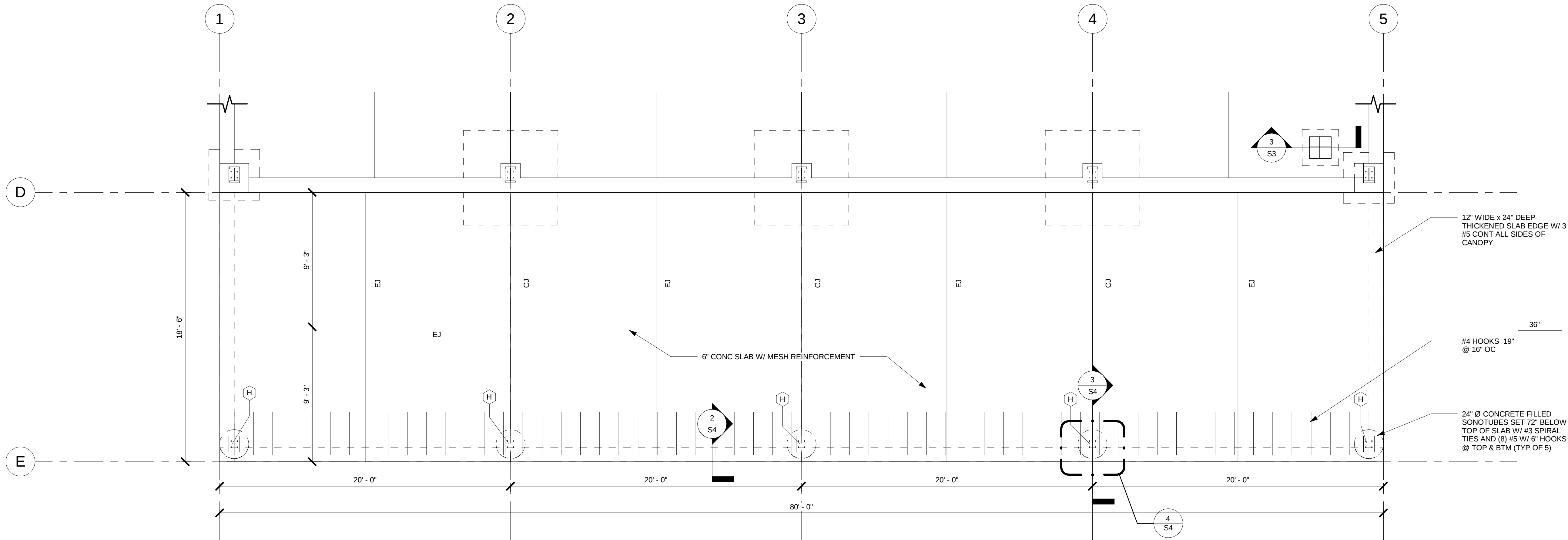
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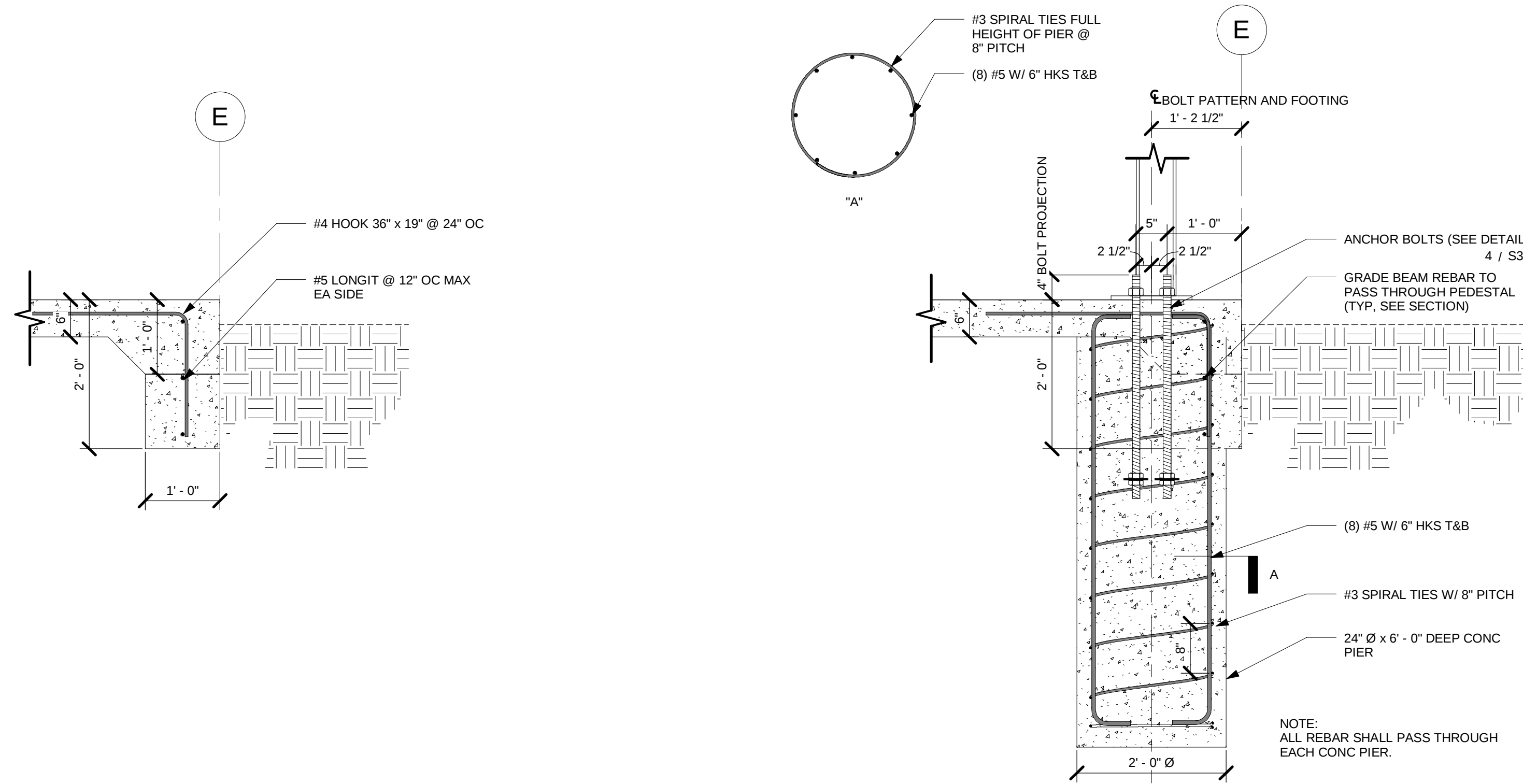
ALCANTRA MEOC VEHICLE
GARAGE
WASILLA, ALASKA
STRUCTURAL DETAILS

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S3	OF

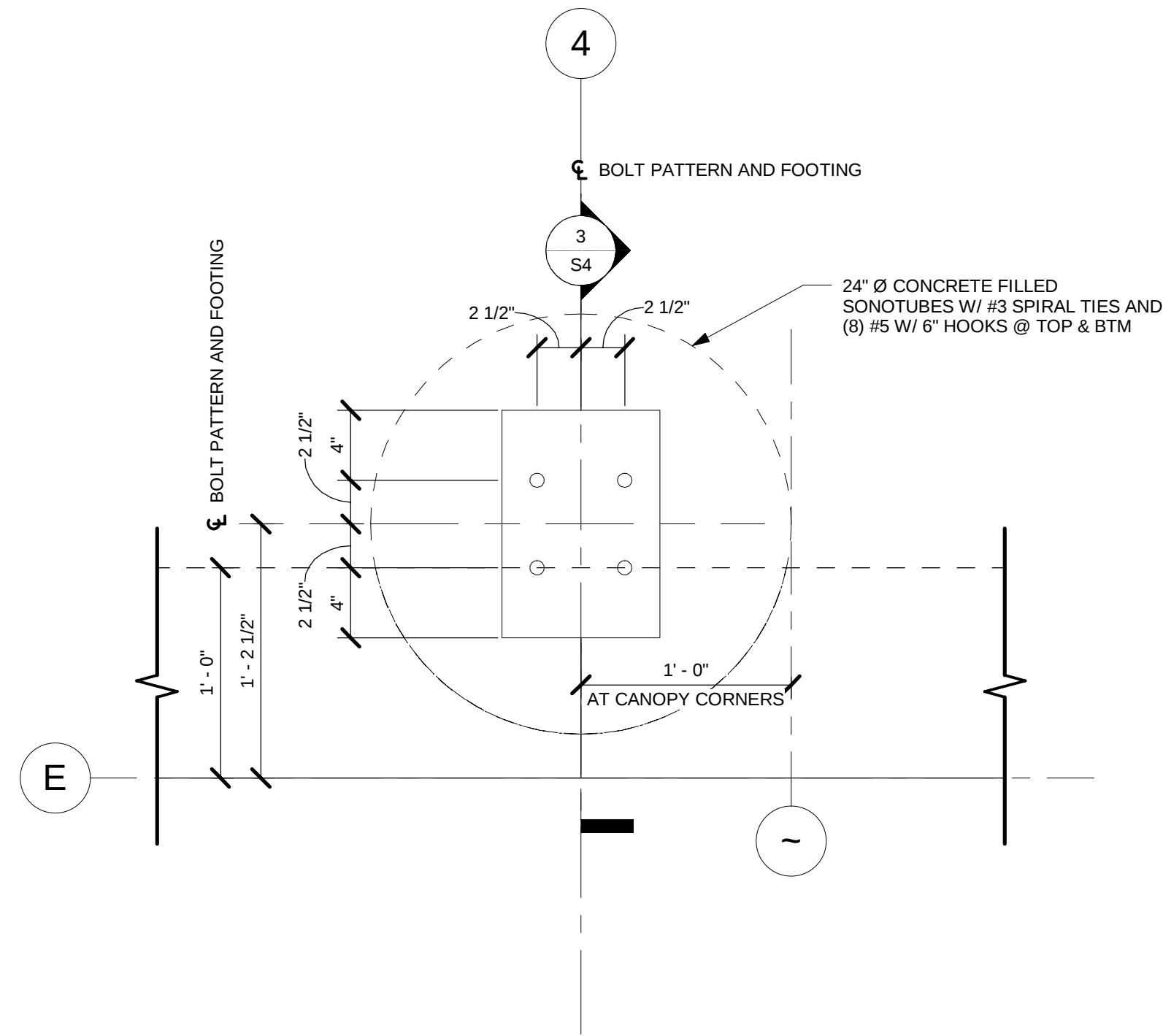
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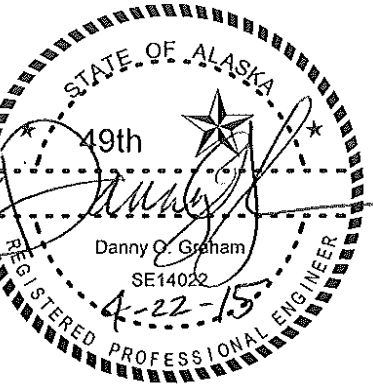
1 CANOPY FOUNDATION PLAN
S4 1/4" = 1'-0"



3 CANOPY PIER SECTION
S4 3/4" = 1'-0"



4 CANOPY PIER PLAN
S4 1 1/2" = 1'-0"



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CANOPY FOUNDATION PLAN

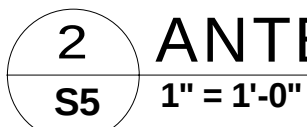
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ALCANTRA MEOC VEHICLE
GARAGE
WASILLA, ALASKA

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DRAWN BY:	DM
CHECKED BY:	DG
DATE:	3/20/15
FILE NO.	859.09
SHEET NUMBER	
S4	OF



1 ANTEN
S5 1 1/2" = 1'-0"



MECHANICAL LEGEND

	WASTE
	VENT PIPING
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATED
	SEE ABBREVIATIONS FOR MEDIA
	PIPE UP
	PIPE DOWN
	TEE UP
	TEE DOWN
	CAP
	UNION
	DIRECTION OF FLOW
	ISOLATION VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CHECK VALVE
	BALANCE/SHUT-OFF VALVE
	PRESSURE REDUCING VALVE
	FLEXIBLE PIPING CONNECTOR
	PRESSURE/TEMPERATURE RELIEF VALVE
	HOSE BIBB
	PUMP
	CLEANOUT
	PIPE GUIDE
	PIPE ANCHOR
	THERMOMETER
	PRESSURE GAUGE WITH ISOLATION COCK
	STRAINER WITH BLOWDOWN
	WATER HAMMER ARRESTOR
	LETTER INDICATES PDI SIZE
	FLOOR CLEANOUT OR CAP
	FLOOR DRAIN
	SUPPLY AIR UP & DOWN (SQUARE)
	SUPPLY AIR DIFFUSER / GRILLE
	RETURN AIR UP & DOWN (SQUARE)
	RETURN AIR GRILLE
	EXHAUST AIR UP & DOWN (SQUARE)
	EXHAUST AIR GRILLE
	ROUND DUCT UP & DOWN
	VOLUME DAMPER
	MOTORIZED CONTROL DAMPER
	SOUND LINED DUCTWORK
	DUCT SIZE (FIRST NUMBER - SIDE SHOWN) (SECOND NUMBER - SIDE NOT SHOWN)
	INSULATED DUCTWORK
	TURNING VANES
	FLEXIBLE DUCT CONNECTION
	DIFFUSER WITH FLEXIBLE DUCT
	THERMOSTAT OR SENSOR
	THERMOSTAT OR SENSOR WITH LOCKING COVER
	STATIC PRESSURE SENSOR
	SHEET NOTES
	SERVICE: S-SUPPLY, R-RETURN, E-EXHAUST
	CFM
	DIFFUSER OR GRILLE TAG
	DETAIL NUMBER
	SHEET LOCATED ON
	BASEBOARD DESIGNATION
	ACTIVE LENGTH
	GPM

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MINIMUM CONNECTION SIZE					MANUFACTURER	MODEL	COLOR	TRIM / REMARKS
		CW	HW	WASTE	VENT	TRAP				
FD-1	FLOOR DRAIN	---	---	2"	1-1/2"	2"	J.R. SMITH	2005-A	---	ROUND TOP, TRAP PRIMER CONNECTION
TD-1	TRENCH DRAIN	---	---	---	---	---	ZURN	Z882	---	DUCTILE IRON SLOTTED GRATE - CLASS F, PROVIDE CLOSED END CAPS AT BOTH ENDS, NO PLUMBED CONNECTIONS

FUEL FIRED UNIT HEATER SCHEDULE

SYMBOL	MFGR / MODEL	FUEL	INPUT (MBH)	OUTPUT (MBH)	CFM	MOTOR DATA		REMARKS
						HP	VOLTS/PH	
GUH-1	MODINE / PTC-215	GAS	215	199.95	3,865	1/2	120/1	93% HIGH EFFICIENCY UNITS, VERTICAL DEFLECTOR BLADES, FINGERPROOF FAN GUARD, HORIZONTAL CONCENTRIC VENT KIT, CONDENSATE pH NEUTRALIZING KIT
GUH-2	MODINE / PTC-215	GAS	215	199.95	3,865	1/2	120/1	93% HIGH EFFICIENCY UNITS, VERTICAL DEFLECTOR BLADES, FINGERPROOF FAN GUARD, HORIZONTAL CONCENTRIC VENT KIT, CONDENSATE pH NEUTRALIZING KIT

ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	MFRG / MODEL	CAPACITY (MBH)	CFM	ELEMENT ELEC. DATA		MOTOR ELEC. DATA		REMARKS
				KW	VOLTS/PH	HP	VOLTS/PH	
EUH-1	BRASCH / BTU-2.5-2041	8,550	350	2.5	240/1	1/20	240/1	HORIZONTAL MOUNTED ELECTRIC UNIT HEATER

FAN SCHEDULE

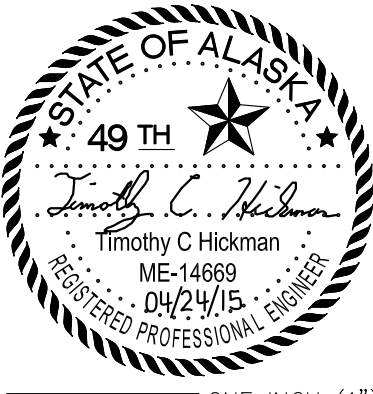
SYMBOL	MFGR / MODEL	SERVICE	TYPE	CFM	TSP (IN. WG)	MOTOR DATA			DRIVE	SONES	REMARKS
						HP	WATTS	VOLTS/PH			
EF-1	GREENHECK / SE1-18-429-A7	EMERGENCY GARAGE EXHAUST	SIDEWALL	3,600	0.5"	3/4	---	120/1	DIRECT	<16	UL LISTED, FIELD MOUNTED DISCONNECT, OSHA MOTOR SIDE GUARD, FIELD MOUNTED SPEED CONTROLLER
EF-2	GREENHECK / SP-A290	CONTINUOUS GARAGE EXHAUST	CENTRIFUGAL	250	0.25"	---	80.7	120/1	DIRECT	<4	UNIT MOUNTED SPEED CONTROLLER
DF-1/2	LEADING EDGE / 56001	GARAGE DESTRATIFICATION	CEILING	27,500	---	---	110	120/1	DIRECT	---	REMOTE MOTOR SPEED CONTROLLER, QUANTITY OF CONTROLLERS AS SHOWN ON PLANS

LOUVER SCHEDULE

SYMBOL	MFGR / MODEL	SERVICE	MATERIAL	FINISH	FACE SIZE (INCHES)	FREE AREA	REMARKS
L-1	GREENHECK / ESD-435	GARAGE EXHAUST AIR	ALUMINUM	PER ARCH	30"W X 30"H	49%	DRAINABLE BLADE, COLOR AND FINISH PER ARCHITECT
L-2	GREENHECK / ESD-435	GARAGE MAKE-UP AIR	ALUMINUM	PER ARCH	60"W X 30"H	50%	DRAINABLE BLADE, COLOR AND FINISH PER ARCHITECT

ABBREVIATIONS

A	COMPRESSED AIR	CONT	CONTINUED	EGT	ENTERING GLYCOL TEMPERATURE	HW	HOT WATER	NSF	NATIONAL SANITARY FOUNDATION	TW	TEMPERED WATER
AAV	AUTOMATIC AIR VENT	CO	CLEANOUT	EXIST	EXISTING	HWC	HOT WATER CIRCULATED	NTS	NOT TO SCALE	TWC	TEMPERED WATER CIRCULATED
AD	ACCESS DOOR	CONN	CONNECTION	FT	FEET	HP	HORSEPOWER	O/A	OUTSIDE AIR	TYP	TYPICAL
AF	AIR FOIL	CP	CIRCULATION PUMP	FPM	FEET PER MINUTE	ID	INSIDE DIAMETER	PC	PUMPED CONDENSATE	UBD	UP BLAST DISCHARGE
AFF	ABOVE FINISHED FLOOR	CUH	CABINET UNIT HEATER	PPF	FINS PER FOOT	IN	INCHES	PD	PRESSURE DROP	UH	UNIT HEATER
AHU	AIR HANDLING UNIT	CW	COLD WATER	FC	FORWARD CURVE	LAT	LEAVING AIR TEMPERATURE	PG	PROPYLENE GLYCOL	V	VENT
ALT	ALTERNATE	ø	DIAMETER	F	FAHRENHEIT	LF	LINEAL FEET	PH	PHASE	VEL	VELOCITY
AMPS	AMPERES	DCGR	DRY COOLER GLYCOL RETURN	FCO	FLOOR CLEAN OUT	LGT	LEAVING GLYCOL TEMPERATURE	PSI	POUNDS PER INCH	VF	VENTILATION FAN
APR	AIR PRESSURE DROP	DCGS	DRY COOLER GLYCOL SUPPLY	FDO	FIRE DAMPER, FLOOR DRAIN	LPG	LIQUID PROPANE GAS	R/A	RETURN AIR	VFD	VARIABLE FREQUENCY DRIVE
ARCH	ARCHITECTURAL	DG	DEGREE	FSD	FIRE SMOKE DAMPER	LT	LEAVING WATER TEMPERATURE	VR	VENT THROUGH ROOF	WTR	WATER
AWT	AVERAGE WATER TEMPERATURE	DN	DOWN	G	NATURAL GAS	MAU	MAKE UP AIR UNIT	RPM	REVOLUTIONS PER MINUTE	WC	WATER COLUMN
BDD	BACKDRAFT DAMPER	DWG	DRAWING	GPH	GALLONS PER HOUR	MAX	MAXIMUM	RL	RAIN LEADER	WG	WATER GAGE
BHD	BOTTOM HORIZONTAL DISCHARGE	E/A	EXHAUST AIR	GPM	GALLONS PER MINUTE	MBH	THOUSAND BTU PER HOUR	S/A	SUPPLY AIR	WCO	WALL CLEAN OUT
BI	BACKWARD INCLINE	EAT	ENTERING AIR TEMPERATURE	GI	GREASE INTERCEPTOR	MFR	MANUFACTURER	SD	STORM DRAIN	WHA	WATER HAMMER ARRESTOR
BLDG	BUILDING	EF	EXHAUST FAN	GT	GLYCOL TANK	M/A	MAKEUP AIR	SP	STATIC PRESSURE	WH	WATER HEATER
BOD	BOTTOM OF DUCT	EG	ETHYLENE GLYCOL	HB	HOSE BIBB	MIN	MINIMUM	TEMP	TEMPERATURE	W	WASTE
BTUH	BRITISH THERMAL UNIT PER HOUR	ET	EXPANSION TANK	HC	HEATING COIL	MTD	MOUNTED	THD	TOP HORIZONTAL DISCHARGE	W/	WITH
C/A	COMBUSTION AIR	EXH	EXHAUST	HD	HEAD	NC	NOISE CRITERIA	TOD	TOP OF DUCT	W/O	WITHOUT
CFM	CUBIC FEET PER MINUTE	EWI	ENTERING WATER TEMPERATURE	HGR	HEATING GLYCOL RETURN	N.C.	NORMALLY CLOSED	TSP	TOTAL STATIC PRESSURE	WPD	WATER PRESSURE DROP
CLG	CEILING	ESP	EXTERNAL STATIC PRESSURE	HGS	HEATING GLYCOL SUPPLY	N.O.	NORMALLY OPEN	TSTAT	THERMOSTAT	YCO	YARD CLEAN OUT



ONE INCH (1"

[illegible]

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Mechanical & Electrical Consulting Engineers
113 W. Northern Lights Blvd., Suite 240
Anchorage, Alaska 99503
Tel. (907) 562-1012 Fax (907) 562-1013



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ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA

SCHEDULES, LEGEND, AND ABBREVIATIONS

SHEET SIZE:		AS NOTED	
DESIGNED BY:		TCH	
DRAWN BY:		TCH	
CHECKED BY:		TCH/CCH	
DATE:		04/24/15	
FILE NO.		2015.005	
SHEET NUMBER			
M1		OF	4

ONE INCH (1")

M3 SCALE: 1/8" = 1'-0"

(M3) SCALE: 1/8" = 1'-0"

M3 / SCALE: NONE

M3 / SCALE: NONE

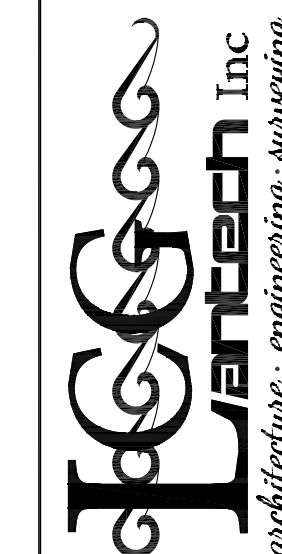
M3 / SCALE: NONE

SHEET NOTES

1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE REQUIRED BY THE PLUMBING FIXTURES SCHEDULE UNLESS OTHERWISE INDICATED.
2. DO NOT ROUTE ANY PIPING IN EXTERIOR WALLS.
3. ALL PIPING REQUIRED FOR FUTURE PLUMBING FIXTURES ROUTED WITHIN THE CAVITIES SHALL BE COMPLETED UNDER THIS PROJECT SUCH THAT FUTURE PLUMBING FIXTURE INSTALLATIONS DO NOT REQUIRE DEMOLITION OF WALLS, FLOORS, OR SLAB.

KEY NOTES

- ① PROVIDE WALL CARRIER, WASTE PIPING, AND VENT PIPING FOR FUTURE CONNECTION TO ADA WALL MOUNTED WATER CLOSET. MOUNT WALL CARRIER AT ADA HEIGHT. PROVIDE 3"W AND 2"V MINIMUM PIPING CONNECTIONS.
- ② PROVIDE 1"CW BRANCH PIPING FOR FUTURE CONNECTION TO ADA WATER CLOSET FLUSH VALVE. CAP PIPE NEAR CEILING IN MECH/ELEC ROOM.
- ③ PROVIDE WALL CARRIER, WASTE PIPING, AND VENT PIPING FOR FUTURE CONNECTION TO ADA WALL MOUNTED LAVATORY. MOUNT LAVATORY CARRIER AT ADA HEIGHT. PROVIDE 2"W AND 1-1/4"V MINIMUM PIPING CONNECTIONS. PROVIDE CLEANOUT ON SINK RISER.
- ④ PROVIDE 1/2"CW AND 1/2"HV BRANCH PIPING FOR FUTURE CONNECTION TO ADA WALL HUNG LAVATORY. CAP PIPING NEAR CEILING IN MECH/ELEC ROOM.
- ⑤ CAP 1"CW PIPE AT GRADE, ENSURE CAP IS VISIBLE TO FACILITATE LOCATING UNDERGROUND PIPING FOR FUTURE CONNECTION.
- ⑥ CAP 1" DOMESTIC WATER SERVICE PIPE 12"AFF.
- ⑦ 3/4" CONDENSATE TO GUH. COMBINE CONDENSATE DRAIN FROM UNIT AND FLUE INTO ONE PIPE UPSTREAM OF THE CONDENSATE NEUTRALIZING KIT. CONNECT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

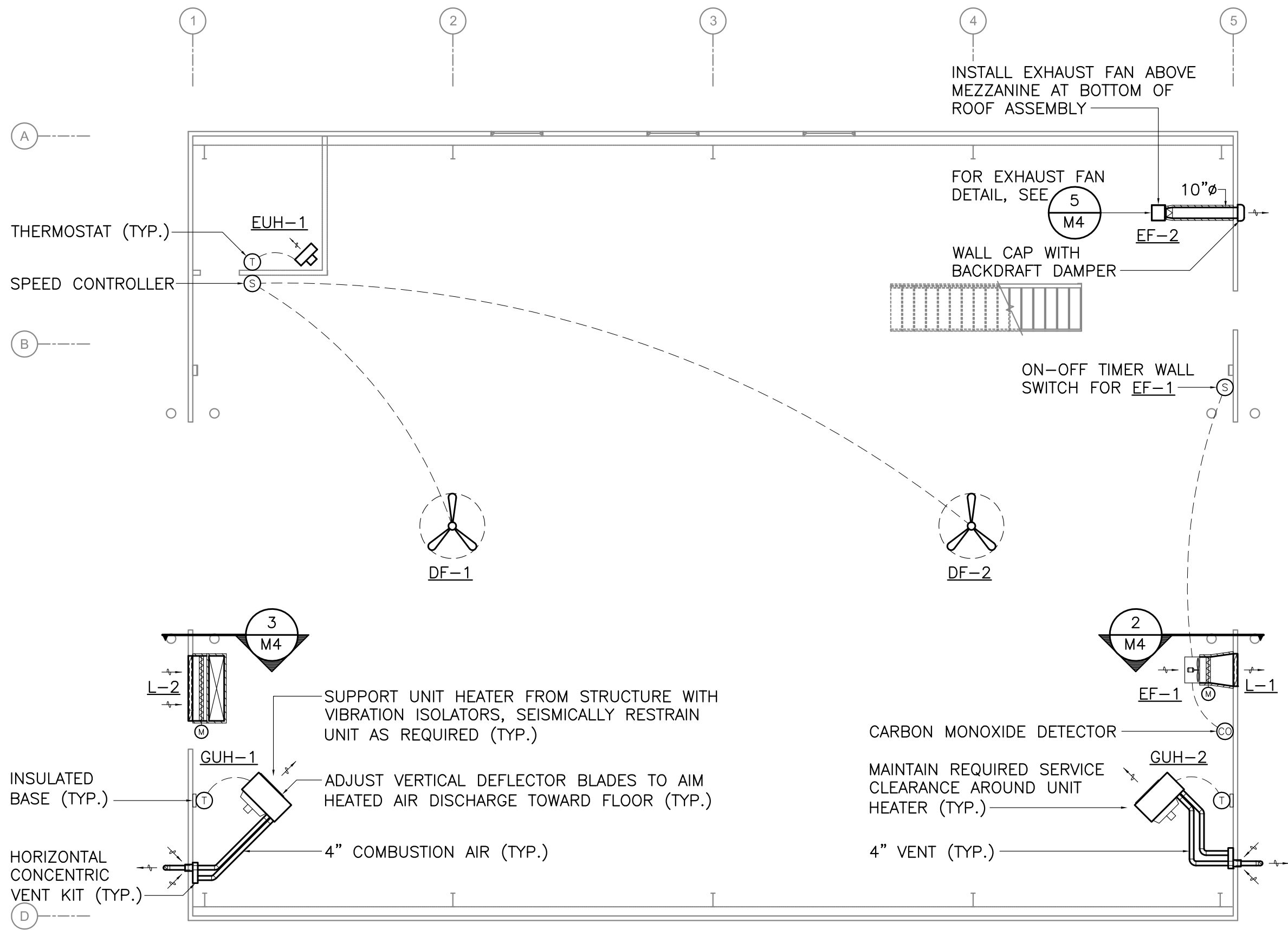
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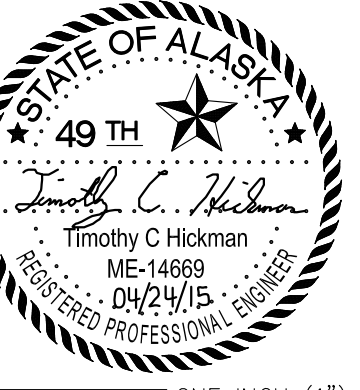
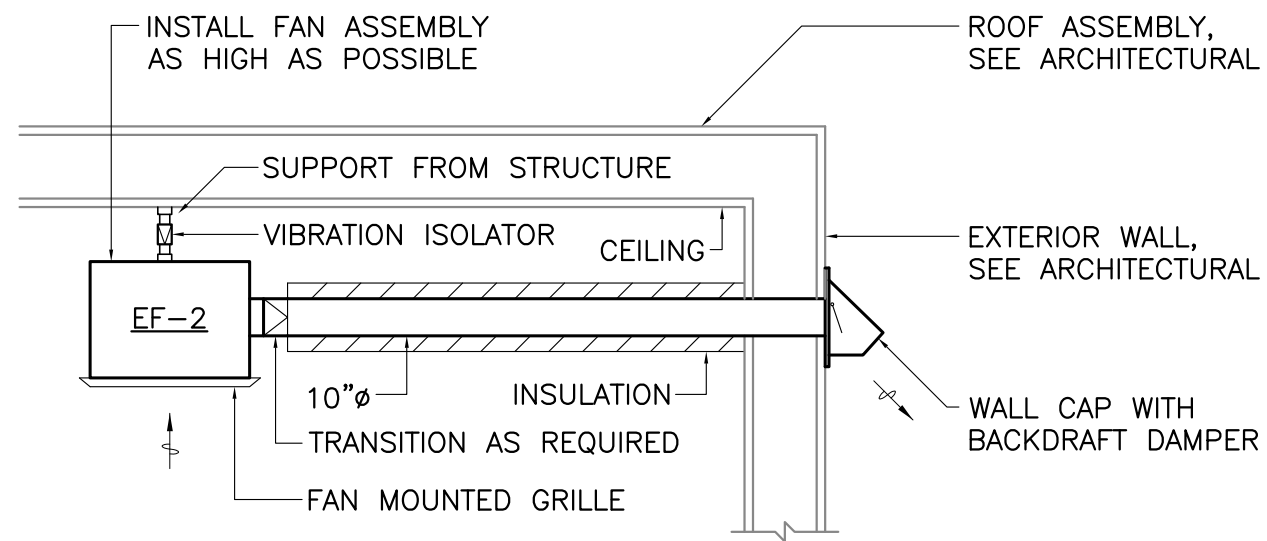
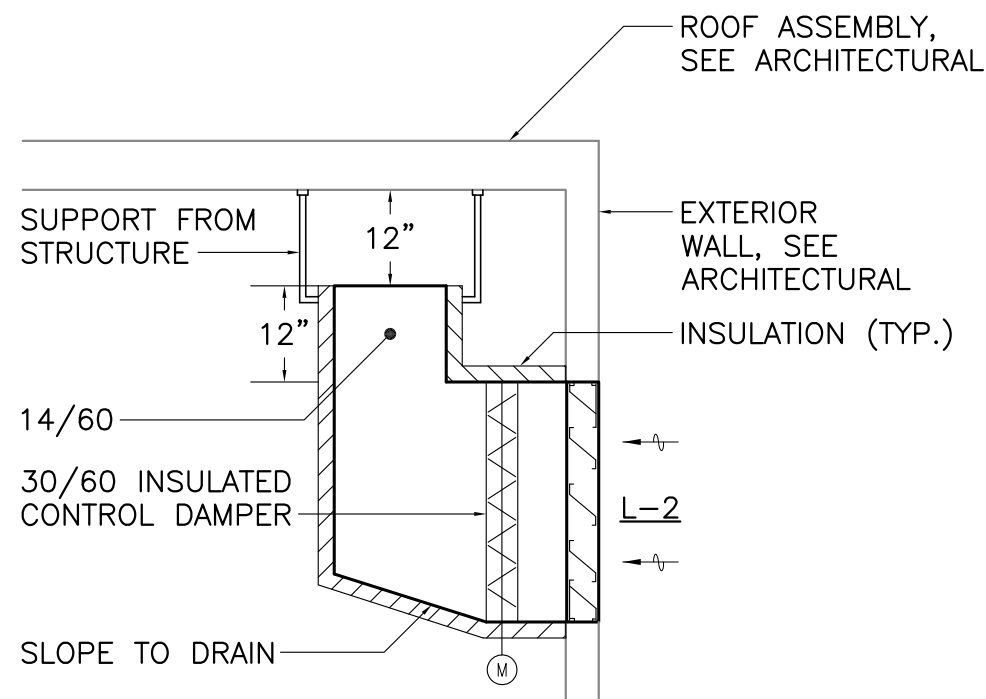
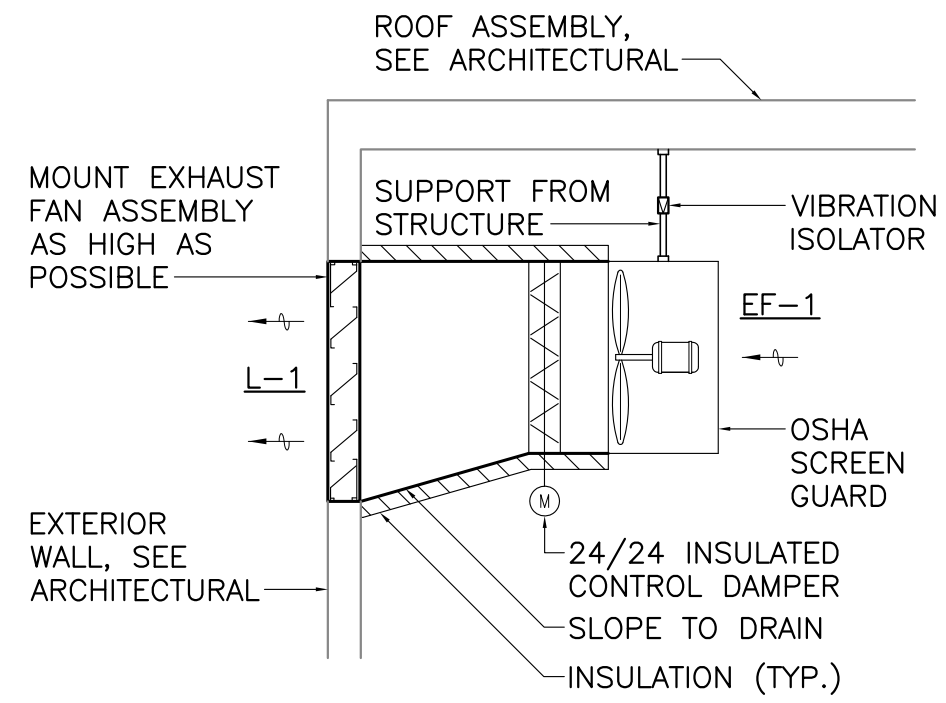
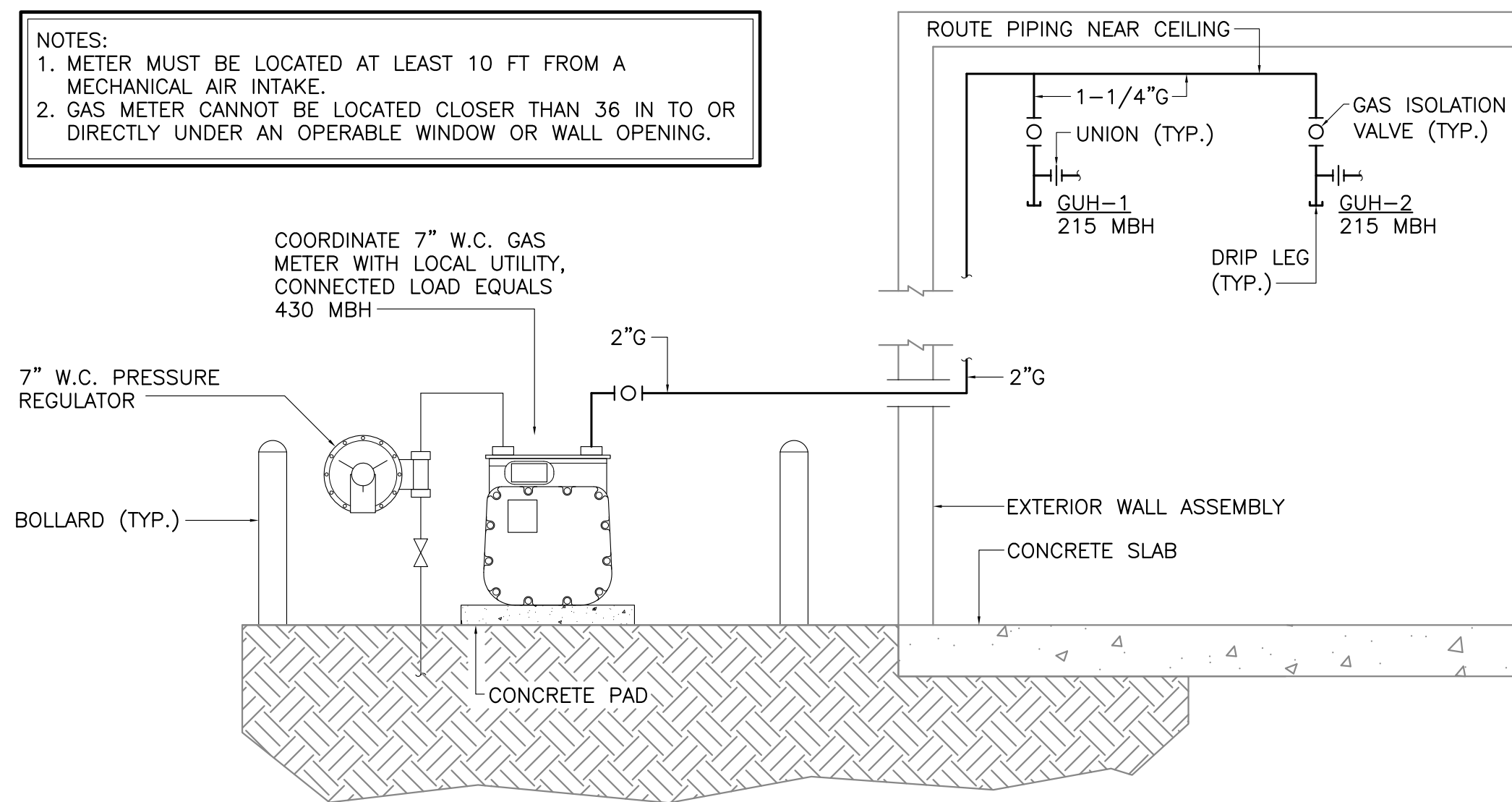
ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA

PLUMBING PLANS AND DETAILS

ONE INCH (1")	SHEET SIZE:		AS NOTED
	DESIGNED BY:		TCH
	DRAWN BY:		TCH
	CHECKED BY:		TCH/CCH
	DATE:		04/24/15
	FILE NO.		2015.005
	SHEET NUMBER		
M3		OF 4	



NOTES:
 1. METER MUST BE LOCATED AT LEAST 10 FT FROM A MECHANICAL AIR INTAKE.
 2. GAS METER CANNOT BE LOCATED CLOSER THAN 36 IN TO OR DIRECTLY UNDER AN OPERABLE WINDOW OR WALL OPENING.



NO	DATE	BY	REVISION

HZA
 HAY ZIEFLOW & ASSOCIATES, LLC
 Mechanical & Electrical Consulting Engineers
 113 W. Northern Lights Blvd., Suite 240
 Tal. (807) 562-1012 Fax (807) 562-1013

Lantech Inc
 architecture · engineering · surveying

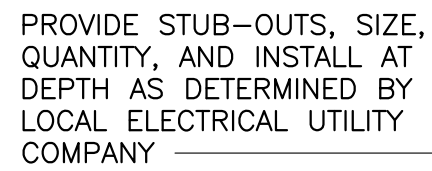
ALCANTRA MEOC VEHICLE GARAGE
 WASILLA, ALASKA

HVAC PLAN, DETAILS AND
 GAS PIPING DIAGRAM

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M4	OF 4

	LIGHT FIXTURE – SURFACE WALL MOUNTED		PANEL
	4' PENDANT/FLUORESCENT FIXTURE – SURFACE MOUNTED		DUPLEX RECEPTACLE
	PENDANT/FLUORESCENT FIXTURE – SURFACE MOUNTED 1'x4'		GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
	FIXTURE WITH EMERGENCY BACK-UP		SPECIAL PURPOSE RECEPTACLE
	EXIT LIGHT – CEILING MOUNTED		JUNCTION BOX
	EXIT LIGHT – WALL MOUNTED		DISCONNECT SWITCH
	SELF-CONTAINED EMERGENCY LIGHT		FRACTIONAL HP MOTOR SWITCH
	FIXTURE IDENTIFICATION (LETTER INDICATES TYPE)		MOTOR
	SINGLE POLE SWITCH		WEATHERPROOF
	THREE WAY SWITCH AND FOUR WAY SWITCH		GROUND FAULT CIRCUIT INTERRUPTER
	ON-OFF TIMER WALL SWITCH		REMOTE HEAD ASSOCIATED W/ EMERGENCY LIGHT
	SPEED CONTROL SWITCH		QUADRAPLEX RECEPTACLE
	CONDUIT, CONCEALED		FIXTURE WITH EMERGENCY BATTERY BACK-UP
	NUMBER AND SIZE OF WIRES (NO SLASHES = 3#12)		
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)		
	NOTE TAG (No. INDICATES NOTE)		
	PHOTOCELL		

E - EXISTING LOAD TO REMAIN.



1. IMMEDIATELY UPON PROJECT INCEPTION THE CONTRACTOR SHALL COORDINATE WITH MEA FOR THE INSTALLATION OF A NEW ELECTRICAL SERVICE TO THE NEW BUILDING AS SHOWN. ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH MEA STANDARDS AND THE LATEST ADOPTED NEC. THE CONTRACTOR SHALL SUBMIT DETAILED INFORMATION REGARDING THE PROPOSED SERVICE ENTRANCE EQUIPMENT AND LOCATION ON THE BUILDING TO THE UTILITY COMPANY FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT.
2. PROVIDE GROUNDING ELECTRODE SYSTEM AS FOLLOWS: #4 CU. TO WATER MAIN, #4 CU. TO BUILDING STEEL, 20' OF #4 CU. ENCASED IN FOOTING CONCRETE AND BONDED TO REBAR. AND #4 CU. TO DRIVEN ROD ELECTRODES.
3. INTERSYSTEM BONDING TERMINATION PER NEC 250.94 FOR CONNECTION TO COMMUNICATIONS BONDING AND GROUNDING CONDUCTORS.

TYPE	MANUFACTURER AND MODEL NUMBER	DESCRIPTION	LAMP		MOUNTING	
			TYPE	QUANTITY	TYPE	HEIGHT
	LITHONIA #IBZ-454L- GEB10PS90-(EL14)	4' FLUORESCENT HIGHBAY WITH NARROW DISTRIBUTION, MULTI-VOLT BALLAST, EMERGENCY BATTERY (120V) WHERE INDICATED AND MOUNTING AND ACCESSORIES AS REQUIRED	54W/T5HO	4	SURFACE/ PENDANT	CEILING
	LITHONIA #Z-2-54T5HO-MVOLT- GEB10-WGZ46-(EL65)	4' LOW-PROFILE FLUORESCENT STRIPLIGHT, WITH MULTI-VOLT BALLAST, WIREGUARD, AND EMERGENCY BATTERY (120V) WHERE INDICATED.	54W/T5HO	2	SURFACE/ PENDANT	CEILING
	LITHONIA #Z-2-28T5-MVOLT- GEB10-WGZ46-EL65	4' LOW-PROFILE FLUORESCENT STRIPLIGHT, WITH MULTI-VOLT BALLAST, WIREGUARD, AND EMERGENCY BATTERY (120V) WHERE INDICATED.	28W/T5	2	SURFACE	CEILING UNDER MEZZANINE
	LITHONIA #TWR1-LED-2-40K- MVOLT	LED WALLPACK WITH 3500 LUMENS, 4000K, MULTI-VOLT DRIVER, AND TEXTURED DARK BRONZE FINISH.	39W LED	-	WALL	(VERIFY WITH ARCH.)
	LITHONIA #OLW14-FCOSM24	OUTDOOR GENERAL PURPOSE LED WALLPACK FIXTURE WITH PHOTOCCELL, BRONZE FINISH, 120V INPUT, FULL CUTOFF SHIELD.	18W LED	-	SURFACE/ WALL	ABOVE DOOR/BELOW CANOPY
	LITHONIA #LOM-S-W-3-R- 120/277-ELN	SELF CONTAINED EMERGENCY EXIT SIGN WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY. PROVIDE WITH MOUNTING, QUANTITY OF FACES, & DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS	LED	N/A	WALL	ABOVE DOOR
	LITHONIA #LHQM-S-W-3-R- 120/277-HO-RO	SELF CONTAINED EMERGENCY EXIT SIGN WITH HIGH OUTPUT BATTERY, W/ OUT EMERGENCY HEADS, CAPABLE OF PROVIDING ADDITIONAL 90 MINUTES OF CAPACITY (24W) FOR REMOTE HEAD.	LED	N/A	WALL	ABOVE DOOR
	LITHONIA #ELA-TNX-H0606	COMPACT REMOTE EMERGENCY EXTERIOR FLOODLIGHT (6V) WITH WET LOCATION LISTING	6W 6V	2	WALL	8' (VERIFY) SEE ARCH. ELEVATIONS

1. VERIFY AND COORDINATE EXACT LOCATIONS AND HEIGHTS TO AVOID CONFLICTS WITH BEAMS, OVERHEAD DOORS, MECHANICAL DUCTWORK, ETC. PROVIDE MOUNTING HARDWARE AND SEISMIC BRACING AS REQUIRED.

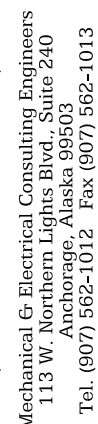
1. ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER USING GOOD ENGINEERING PRACTICES AND SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS.
2. COORDINATE EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL ITEMS PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED CONTROLS AND CONNECTIONS AS NEEDED FOR FULLY OPERATIONAL SYSTEMS, AND THE INTENDED OPERATION AS INDICATED BY MECHANICAL SEQUENCE OF OPERATIONS.
3. COORDINATE WITH MECHANICAL AND OTHER TRADES TO ENSURE THAT THE ELECTRICAL PANELS AND DISTRIBUTION EQUIPMENT ARE PROVIDED WITH THE NEC REQUIRED WORKING CLEARANCES.
4. COORDINATE EXACT HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL, FURNITURE, AND EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN.
5. GFCI RECEPTACLES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION PER NEC 210.8. IF NOT POSSIBLE, PROVIDE CIRCUITS SUPPLIED BY A 5mA GFCI CIRCUIT BREAKER.
6. ALTHOUGH NOT SHOWN, AND UNLESS CONDUCTORS ENTER THE BOX THROUGH A RACEWAY, SWITCH BOXES SHALL INCLUDE A "GROUNDED CONDUCTOR" (NEUTRAL) OF THE CONTROLLED LIGHTING CIRCUIT AS REQUIRED BY NEC 404.2(C).
7. SIZE CONDUCTORS TO PROVIDE MAXIMUM VOLTAGE DROP NOT TO EXCEED 2% IN BRANCH CIRCUITS AND A MAXIMUM OF 3% IN FEEDERS. IN GENERAL, FOR A 20 AMP 120 VOLT CIRCUIT, MINIMUM WIRE SIZE SHALL BE #12 (CU.) FOR BRANCH CIRCUITS LESS THAN 70', #10 (CU.) FOR CIRCUITS 70' TO 125' AND #8 (CU.) FOR CIRCUITS 125' TO 200'.
8. PROVIDE SEISMIC BRACING AND SUPPORT FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE IBC AND OTHER APPLICABLE CODES. EQUIPMENT TO BE BRACED AND SUPPORTED MAY INCLUDE BUT IS NOT LIMITED TO LIGHTS, PANELS, CONDUIT, ETC.

FAULT CURRENT ANALYSIS	
BASIS OF CALCULATIONS:	DATE OF CALCULATION: 03/16/2015
<u>VARIABLE</u>	<u>VALUE</u>
PRIMARY BUS UTILITY TRANSFORMER RATING VOLTAGE (LINE TO LINE) UTILITY TRANSFORMER IMPEDANCE SERVICE LATERAL LENGTH SERVICE LATERAL CONDUCTOR SIZE CONDUCTORS PER PHASE CONDUIT TYPE	INFINITE MVA 50 KVA 120/240 VOLTS, 1Ø 1.2% 30 FT 4/0 kcmil AL 1 NON-MAGNETIC
CALCULATION SUMMARY:	
<u>LOCATION</u>	<u>SHORT CIRCUIT CURRENT</u>
XX,XXX	SEE DRAWINGS FOR CURRENT
CONTRACTOR TO CONFIRM ACTUAL VALUES OF ABOVE LISTED CALCULATION VARIABLES WITH SERVING UTILITY PRIOR TO ORDERING EQUIPMENT. IF ELECTRICAL UTILITY EQUIPMENT AND INSTALLATION DEVIATES FROM THE BASIS ITEMIZED ABOVE, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER OF RECORD TO CONFIRM THE AIC RATING REQUIRED FOR ELECTRICAL DISTRIBUTION EQUIPMENT. ALL EQUIPMENT SHALL BE RATED FOR AVAILABLE FAULT CURRENT AND LABELED PER NEC 110.24 WITH THE MAXIMUM AVAILABLE FAULT CURRENT WITH THE DATE THE CALCULATIONS WERE PERFORMED.	

FEEDER SCHEDULE			
TAG ID	QUANTITY	CONDUIT	CONDUCTORS
200	1 RUN	2"	2#3/0, 1#3/0, 1#6G

NOTES TO FEEDER SCHEDULE:

- CONDUCTOR SIZING BASED ON COPPER CONDUCTORS IN METALLIC CONDUIT PER NEC TABLE 310.15(B)(16) USING 60°C RATING FOR CIRCUITS LESS THAN 100 AMPS AND 75°C RATING FOR CIRCUITS GREATER THAN 100 AMPS. CONDUIT SIZING BASED ON TYPE XHHW INSULATED CONDUCTORS IN EMT CONDUIT PER NEC TABLE C1.
- UNLESS NOTED OTHERWISE NEUTRAL CONDUCTOR NOT REQUIRED FOR MOTOR FEEDERS AND TRANSFORMER PRIMARY FEEDERS.

[illegible]

ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA

ELECTRICAL LEGEND, FIXTURE
SCHEDULE, AND RISER DIAGRAM

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ONE INCH (1")

NO	DATE	BY	REVISION

HZA
HAY, ZIEGLOW & ASSOCIATES, LLC
Mechanical & Electrical Consulting Engineers
113 W. Northern Lights Blvd., Suite 240
Tal., (907) 562-1012, Fax (907) 562-1013

Lantech Inc
architecture · engineering · surveying

DMVA

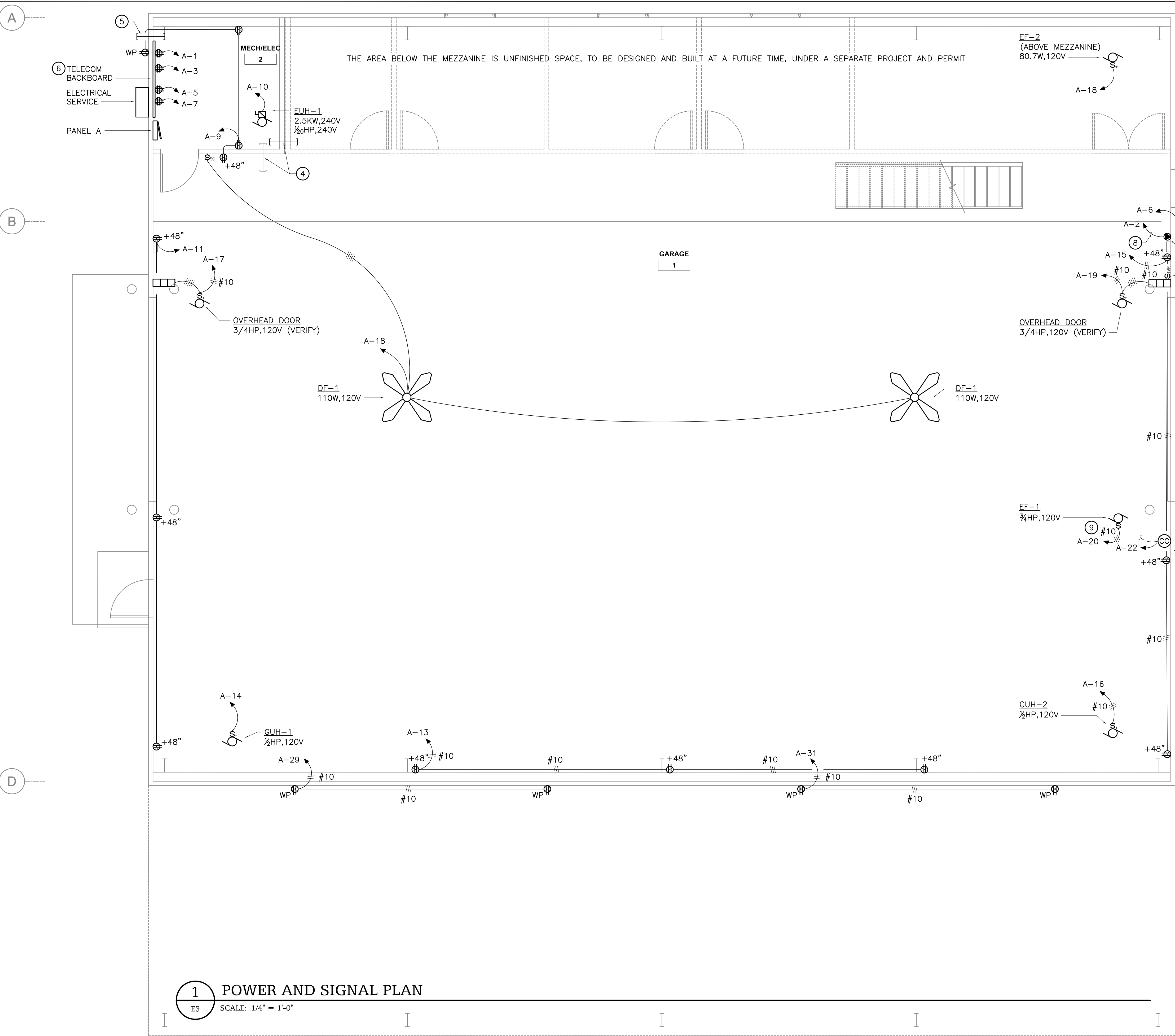
ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA
POWER AND SIGNAL PLAN

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ONE INCH (1")

SHEET NOTES:

- COORDINATE WITH GENERAL CONTRACTOR TO ENSURE NEC REQUIRED WORKING CLEARANCES AND SPACES ARE MAINTAINED AROUND ELECTRICAL EQUIPMENT SUCH AS DISTRIBUTION EQUIPMENT, PANELS, DISCONNECTS, MOTOR STARTERS, ETC. PER NEC 110.26. WHERE NECESSARY, PROVIDE STRUCTURAL CHANNEL (UNISTRUT) SUPPORT FOR INSTALLATION.
- COORDINATE EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL ITEMS PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED APPURTENANCES AND POWER AND CONTROL CONNECTIONS AS NEEDED FOR EQUIPMENT TO OPERATE AS COMPLETE AND FULLY OPERATIONAL SYSTEMS AS INTENDED AND INDICATED IN THE DRAWINGS, SPECIFICATIONS, AND IN THE SEQUENCE OF OPERATIONS. ALL REQUIRED LINE AND LOW VOLTAGE CONNECTIONS INCLUDING INTERCONNECTING CONTROL WIRING, MAY NOT BE SHOWN IN THESE DRAWINGS, BUT MAY BE REQUIRED, AND IF SO ARE TO BE PROVIDED. REFERENCE MECHANICAL DOCUMENTS FOR LOCATIONS AND REQUIREMENTS.
- 50A, 120/240V RECEPTACLES FOR VEHICLE SHORE POWER. COORDINATE FINAL OUTLET CONFIGURATION AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE CONDUIT STUBBED FROM ELECTRICAL ROOM TO ACCESSIBLE AREA UNDER MEZZANINE AND IN MAIN GARAGE FOR FUTURE TELECOMMUNICATION SYSTEMS.
- PROVIDE 4" CONDUIT STUB TO OUTSIDE BUILDING FOR FUTURE TELECOMMUNICATION FEEDERS INTO THE BUILDING.
- 4'X8'X $\frac{3}{4}$ " FIRE RETARDANT AC PLYWOOD, FINISHED WITH FIRE RETARDANT PAINT.
- PROVIDE CONTROL CONNECTIONS BETWEEN CARBON MONOXIDE DETECTOR AND EF-1 AS REQUIRED BY MECHANICAL SEQUENCE OF OPERATIONS.
- 3/4" CONDUIT, 2#6,1#10.
- COORDINATE WITH MECHANICAL FOR THE PROVIDING, INSTALLATION, AND ANY REQUIRED CONNECTIONS BETWEEN THE ON-OFF TIMER WALL SWITCH AND EF-1. SEE MECHANICAL DRAWINGS 1/M4 AND MECHANICAL SEQUENCE OF OPERATIONS.



1 POWER AND SIGNAL PLAN
E3 SCALE: 1/4" = 1'-0"

GENERAL CONDITIONS – PROVIDE AND INSTALL ALL LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERABLE ELECTRICAL SYSTEM AS DESCRIBED ON THE DRAWINGS AND IN THESE SPECIFICATIONS. ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER USING GOOD ENGINEERING PRACTICES. ALL NEW WORK AND EXISTING WORK MODIFIED BY THIS PROJECT SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL CODES AND AMENDMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS.

INSTALLATION OF ALL WORK SHALL BE PROVIDED SO THAT ALL COMPONENT PARTS SHALL FUNCTION AS AN INTEGRATED SYSTEM COMPLETE WITH ALL ASSOCIATED EQUIPMENT NECESSARY FOR PROPER OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED TO ENSURE CONFORMANCE WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.

PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE BOUND IN A HARD COVER, LOOSE-LEAF BINDER, SEPARATED FROM SUBMITTAL INFORMATION PROVIDED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY PART NUMBER, NAME OR DESIGNATION REFERENCED ON THE DRAWING. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT REVIEWED FOR MATERIAL QUANTITIES, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED AND FULLY DESCRIBED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY OPERABLE INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

OPERATION AND MAINTENANCE MANUALS — PROVIDE OPERATION AND MAINTENANCE MANUALS SUITABLE FOR TRAINING OF THE OWNER'S PERSONNEL. PROVIDE INSTRUCTIONS AND AN ITEMIZED SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING, INSPECTION AND OTHER MANUFACTURER RECOMMENDED MAINTENANCE. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH DRAWINGS, WIRING DIAGRAMS, PARTS LIST, ETC.

PERMITS – PROCURE AND PAY FOR ALL FEES, PERMITS, REVIEWS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES AND ALL LOCAL UTILITY COMPANIES. COSTS OF COMMERCIAL UTILITY LINE EXTENSIONS TO THE SYSTEM METER ARE TO BE PAID BY THE OWNER.

IDENTIFICATION - PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES WITH WHITE LETTERS ON A BLACK BACKGROUND WHERE REQUIRED BY THE NEC AND TO IDENTIFY ALL ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND LOADS SERVED. LETTER HEIGHTS SHALL BE 1/8 INCH MINIMUM FOR INDIVIDUAL SWITCHES, MOTOR STARTERS AND LOADS SERVED. LETTER HEIGHTS SHALL BE 1/4 INCH MINIMUM FOR PANELBOARDS. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS, RIVETS OR ADHESIVES. SECURE NAMEPLATE TO INSIDE FACE OF RECESSED PANELBOARD DOORS IN FINISHED LOCATIONS.

CONDUITS: IDENTIFY THE CIRCUIT NUMBERS OF THE BRANCH CIRCUIT CONDUCTORS CONTAINED INSIDE ALL CONDUITS ENTERING OR LEAVING PANELBOARDS WITH INDELIBLE BLACK MARKING PEN OR OTHER PERMANENT MEANS.

CONDUIT - RACEWAY AND WIRING SHALL BE APPROPRIATE FOR THE LOCATION AND INSTALLATION. ALL WIRING SHALL BE INSTALLED IN METALLIC RACEWAY. RACEWAY SHALL BE INSTALLED CONCEALED EXCEPT AT SURFACE MOUNTED CABINETS, MOTORS AND EQUIPMENT CONNECTIONS. GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT SHALL BE USED FOR SERVICE ENTRANCE, WET LOCATIONS, IN DIRECT CONTACT WITH CONCRETE OR UNDERGROUND INSTALLATIONS. ELECTRICAL METALLIC TUBING MAY BE USED IN ALL CONCEALED, DRY, INTERIOR LOCATIONS. UTILIZE SHORT EXTENSIONS OF FLEXIBLE CONDUIT, PROPERLY SUPPORTED, FOR CONNECTION OF ALL MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION. UTILIZE LIQUID-TIGHT FLEXIBLE CONDUIT FOR MOTOR AND EQUIPMENT CONNECTIONS IN WET LOCATIONS. INSTALL FITTINGS TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE RACEWAY CROSSES CONTROL AND EXPANSION JOINTS. PAINT ALL EXPOSED RACEWAYS IN FINISHED LOCATIONS, TO MATCH THE SURFACE TO WHICH IT IS ATTACHED OR CROSSES.

OUTLET BOXES - PROVIDE OUTLET AND JUNCTION BOXES OF A TYPE SUITABLE FOR CONDITIONS WHERE UNINSTALLED AND AS PERMITTED BY THE NEC. PROVIDE OUTLET AND JUNCTION BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS. PROVIDE WALL STUD SEPARATION FOR MINIMUM SOUND TRANSMISSION. USE MULTIPLE-GANG BOXES WHERE MORE THAN ONE DEVICE ARE MOUNTED TOGETHER. ADEQUATELY SUPPORT BOXES INDEPENDENTLY OF CONDUIT. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES.

RECEPTACLES - PROVIDE NEMA 5-20R DUPLEX GROUNDING TYPE RECEPTACLES WITH IVORY FINISH. UL NO. 498 APPROVED, SELF-GROUNDING, CERTIFIED TO COMPLY WITH NEMA WD-1. SCREW TERMINAL OR SCREW CLAMP TYPE ONLY. PROVIDE DUPLEX CONVENIENCE RECEPTACLES WITH CLASS "A" INTEGRAL GROUND FAULT CURRENT INTERRUPTER AND SPECIFIC-USE RECEPTACLES WHERE INDICATED ON THE DRAWINGS AND AS REQUIRED BY CODE. PROVIDE LISTED WEATHER RESISTANT TYPE RECEPTACLES WHERE LOCATED IN DAMP OR WET AREAS. UNLESS OTHERWISE NOTED, ALL WIRING, INCLUDING ALL WIRING IN THE RECEPTACLE, SHALL BE FINISH FLOOR, 4 INCHES ABOVE COUNTERS AND BACKSPLASHES, WITH GROUNDING POLE ON BOTTOM. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO CENTERLINE OF OUTLET. LOCATE GROUND FAULT CURRENT INTERRUPTER TYPE RECEPTACLES SO THAT THEY ARE READILY ACCESSIBLE, AS REQUIRED BY THE NEC.

DEVICE PLATES - PROVIDE ONE LISTED ONE PIECE ROUNDED EDGE FLUSH "STREAMLINE" DESIGN FLUSH DEVICE PLATES OF SATIN FINISH 430 OR 302 STAINLESS STEEL WITH METAL, COUNTER SUNK SCREWS TO MATCH DEVICE PLATE. PROVIDE GALVANIZED DEVICE PLATES WHERE EXPOSED WIRING IS PERMITTED. PROVIDE WEATHERPROOF GASKETED STAINLESS STEEL WITH HINGED GASKETED DEVICE COVERS FOR ALL OUTLETS IN WET LOCATIONS OR ON THE EXTERIOR OF THE BUILDING. PROVIDE "WET WHILE IN USE" METALLIC EXTRA DUTY WEATHERPROOF COVERS WHEN MANDATED BY THE AUTHORITY HAVING JURISDICTION.

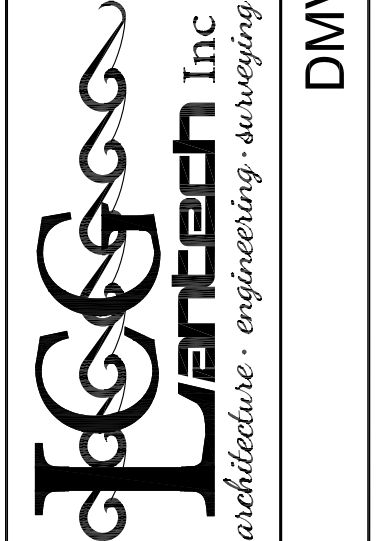
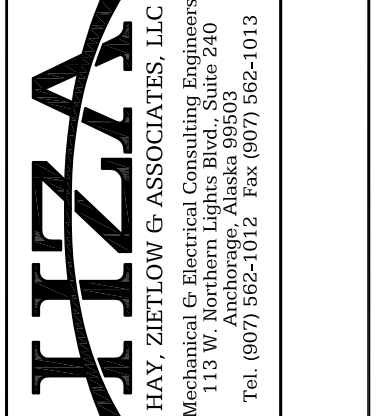
EQUIPMENT CONNECTIONS - PROVIDE AND INSTALL WIRING AND CONNECTIONS OF EQUIPMENT REQUIRING ELECTRICAL POWER BUT SPECIFIED UNDER OTHER DIVISIONS OF THE PROJECT. EQUIPMENT SHALL INCLUDE BUT IS NOT LIMITED TO OVERHEAD DOORS, MOTORS, PUMPS, WATER HEATERS, HVAC EQUIPMENT, ETC. REVIEW EQUIPMENT SUBMITTALS PRIOR TO INSTALLATION AND ELECTRICAL ROUGH-IN AND VERIFY THE LOCATION, SIZE, TYPE OF CONNECTIONS, AND THAT THE EQUIPMENT IS READY FOR ELECTRICAL CONNECTION. MAKE WIRING CONNECTIONS IN THE CONTROL PANEL OR IN THE WIRING COMPARTMENT OF THE EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE INTERCONNECTING WIRING AND LOCAL DISCONNECTS WHERE REQUIRED.

FRACTIONAL HORSEPOWER MANUAL STARTER - NEMA ICS 2; AC GENERAL-PURPOSE CLASS A MANUALLY OPERATED FULL-VOLTAGE CONTROLLER FOR FRACTIONAL HORSEPOWER INDUCTION MOTORS WITH THE NUMBER OF POLES AS REQUIRED BY THE LOAD SERVED, THERMAL OVERLOAD UNIT(S), RED PILOT LIGHT, AND TOGGLE OPERATOR.

SEISMIC RESTRAINTS - PROVIDE SEISMIC BRACING AND SUPPORT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE IBC AND OTHER APPLICABLE CODES. EQUIPMENT TO BE BRACED AND SUPPORTED SHALL INCLUDE BUT IS NOT LIMITED TO LIGHTS, PANELS, CONDUIT, ETC. WHEN REQUIRED BY THE LOCAL JURISDICTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING STRUCTURAL RESTRAINTS DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED BY THE STATE OF ALASKA.

PENETRATIONS OF FIRE BARRIERS - ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300.21 AND THE FOLLOWING:

ALL HOLES OR VOIDS CREATED TO EXTEND ELECTRICAL SYSTEMS THROUGH FIRE RATED FLOORS, WALLS OR CEILING SHALL BE SEALED WITH AN ASBESTOS-FREE INTUMESCENT FIRE STOPPING MATERIAL CAPABLE OF EXPANDING 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES 250 DEGREES F OR HIGHER. MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS MADE BY STEEL, GLASS, PLASTIC AND SHALL BE CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E814, UL 1479 AND THE UL FIRE RESISTANCE DIRECTORY REQUIREMENTS FOR THROUGH-PENETRATION FIRESTOP DEVICES (XHCR). THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE TIME-RATED FLOOR, WALL OR CEILING ASSEMBLY. INSTALL FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. UNLESS PROTECTED FROM POSSIBLE LOADING OR TRAFFIC, INSTALL FIRE STOPPING MATERIALS IN FLOORS HAVING VOID OPENINGS OF FOUR (4) INCHES OR MORE TO SUPPORT THE SAME FLOOR LOAD REQUIREMENTS AS THE SURROUNDING FLOOR."

[illegible]

ALCANTRA MEOC VEHICLE GARAGE
WASILLA, ALASKA

ELECTRICAL SPECIFICATIONS

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