

# MUNICIPALITY OF ANCHORAGE ANCHORAGE SENIOR CENTER GARAGE ADDITION

ANCHORAGE, ALASKA

## OWNER

### MUNICIPALITY OF ANCHORAGE

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3640 EAST TUDOR RD. WAREHOUSE NO.1  
CITY, ALASKA 99507  
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F. 907.343.8267

## ARCHITECT

### BURKHART CROFT ARCHITECTS, LLC

880 N STREET, SUITE 302  
ANCHORAGE, ALASKA 99501  
T. 907.929.9334  
F. 907.929.9335

## STRUCTURAL ENGINEER

### CRW ENGINEERING GROUP, LLC.

3940 ARCTIC BLVD, STE 300  
ANCHORAGE, ALASKA 99503  
T. 907.562.3252

## MECHANICAL & ELECTRICAL ENGINEERS

### RSA ENGINEERING, INC

670 WEST FIREWEED LANE, SUITE 200  
ANCHORAGE, ALASKA 99503  
T. 907.276.0521  
F. 907.276.1751

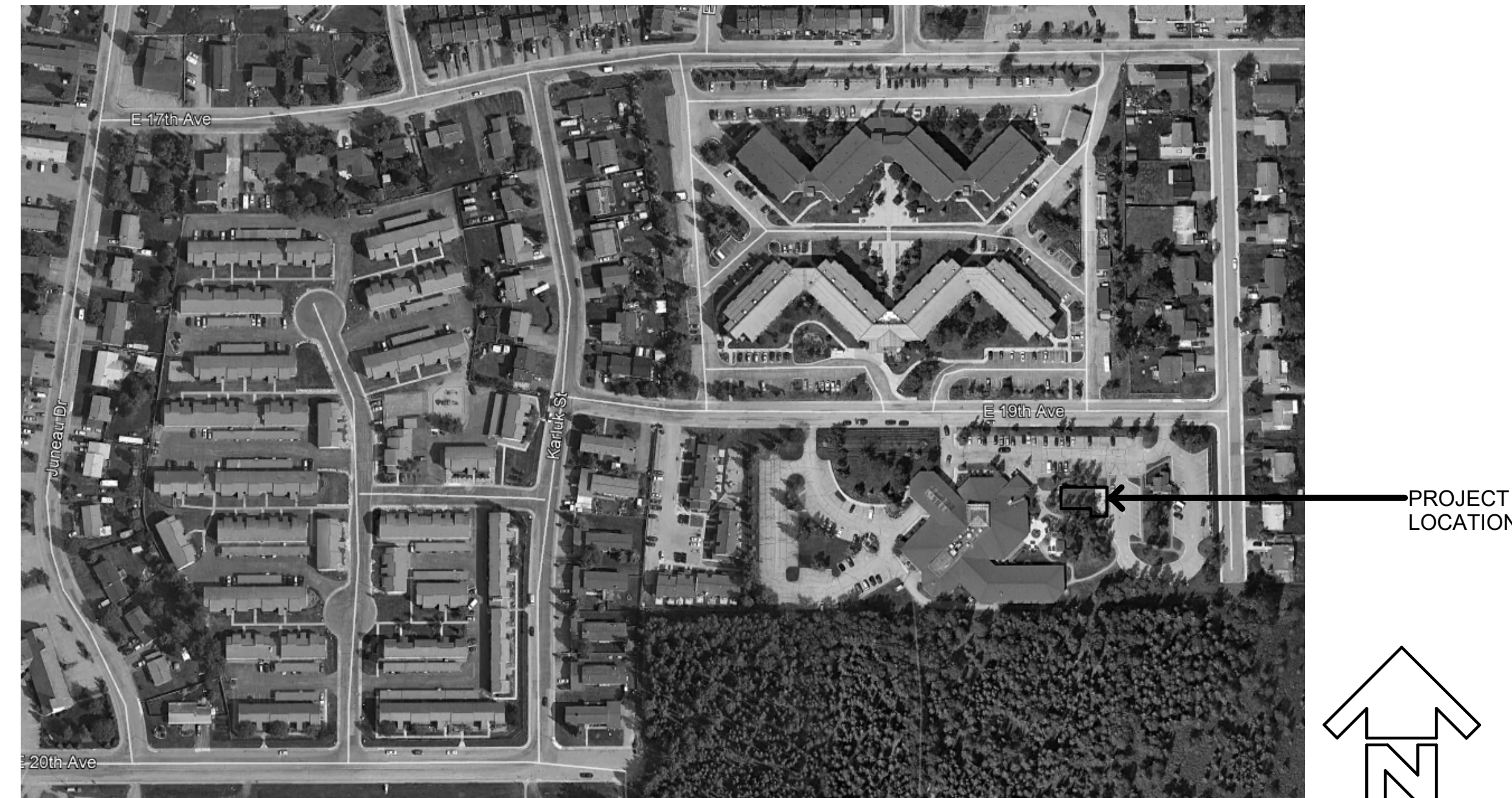
## CIVIL ENGINEERS

### RPKA, INC

16515 CENTERFIELD DRIVE, SUITE 101  
EAGLE RIVER, ALASKA 99577  
T. 907.697.2332

## DESCRIPTION OF WORK

ONE STORY, 1,256 SQUARE FOOT GARAGE AND STORAGE ADDITION TO AN EXISTING STORAGE BUILDING. MINOR SITE MODIFICATIONS TO EXISTING PARKING SPACES AND SIDEWALKS WILL BE MADE TO ACCOMMODATE NEW BUILDING ACCESS.



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### STRUCTURAL

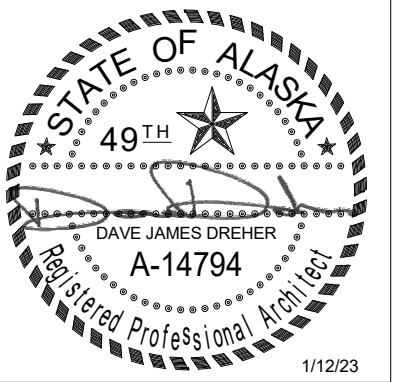
S100 DESIGN CRITERIA AND SPECIAL INSPECTIONS  
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E101 ELECTRICAL DEMOLITION  
E201 ELECTRICAL REMODEL  
E301 ELECTRICAL DETAILS



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23

DRAWN: DBH

CHECKED: DJD

PROJECT: 1718.68

DRAWING TITLE:  
PROJECT DATA

REVISIONS:

SHEET NO:

**G101**

# 2018 INTERNATIONAL BUILDING CODE SUMMARY

## APPLICABLE BUILDING CODES & STANDARDS

2018 INTERNATIONAL BUILDING CODE  
 2018 INTERNATIONAL FIRE CODE  
 2018 UNIFORM PLUMBING CODE  
 2017 ICC / ANSI A117.1

2017 NATIONAL ELECTRICAL CODE  
 2018 INTERNATIONAL MECHANICAL CODE

**CONSTRUCTION TYPE (SEC 602.2):** TYPE V-B, ONE-STORY CONFIGURATION, **NON-SPRINKLED**

**OCCUPANCY OF BUILDING (SEC 302.1):** GROUP S-2 (STORAGE): VEHICLE AND LOW HAZARD

**BUILDING AREA (TABLE 506.2):** TYPE V-B / GROUP S-2, BASIC ALLOWABLE AREA = 13,500 SF

**HEIGHT LIMITATION (TABLE 504.3):** TYPE V-B / GROUP S-2, BASIC ALLOWABLE HEIGHT = 40 FEET

**ACTUAL HEIGHT:** 15'-7" < 40' PERMITTED

**ACTUAL AREA:**  
 EXISTING FIRST FLOOR: 1,435 SF  
 NEW FIRST FLOOR ADDITION: 1,256 SF  
 TOTAL: 2,691 SF < 13,500 SF PERMITTED

**FIRE RESISTANCE RATING (TABLE 601):** TYPE V-B BUILDING: FIRE-RESISTANCE IS NOT REQUIRED FOR STRUCTURAL FRAME, BEARING WALLS, FLOORS OR ROOF FOR TYPE V-B CONSTRUCTION.

**FIRE-RESISTANCE RATING REQUIREMENTS (TABLE 602):** ALL EXTERIOR WALLS ARE GREATER THAN 10 FEET FROM REAL OR ASSUMED PROPERTY LINES. NO RATING OF EXTERIOR WALLS IS REQUIRED.

**AUTOMATIC SPRINKLER PROTECTION (SEC 903):** SPRINKLER SYSTEM PROTECTION NOT REQUIRED.

**MANUAL FIRE ALARM (SEC 907):** A MANUAL FIRE ALARM SYSTEM IS NOT REQUIRED.

**OCCUPANT LOAD (TABLE 1004.5):** ACCESSORY STORAGE LOAD FACTOR = 300 GSF. OCCUPANT LOAD = 2,460 GSF / 300 GSF

**EXIT ACCESS DOORWAYS (TABLE 1006.2.1):** THE COMMON PATH OF EGRESS TRAVEL FOR OCCUPANCY TYPE S WITH LESS THAN 30 OCCUPANTS IN AN UNSPRINKLERED BUILDING IS 100'. COMMON PATH OF TRAVEL IS LESS THAN 100'

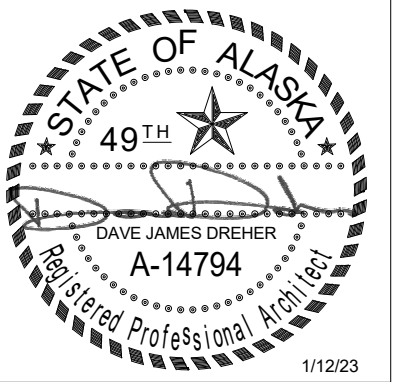
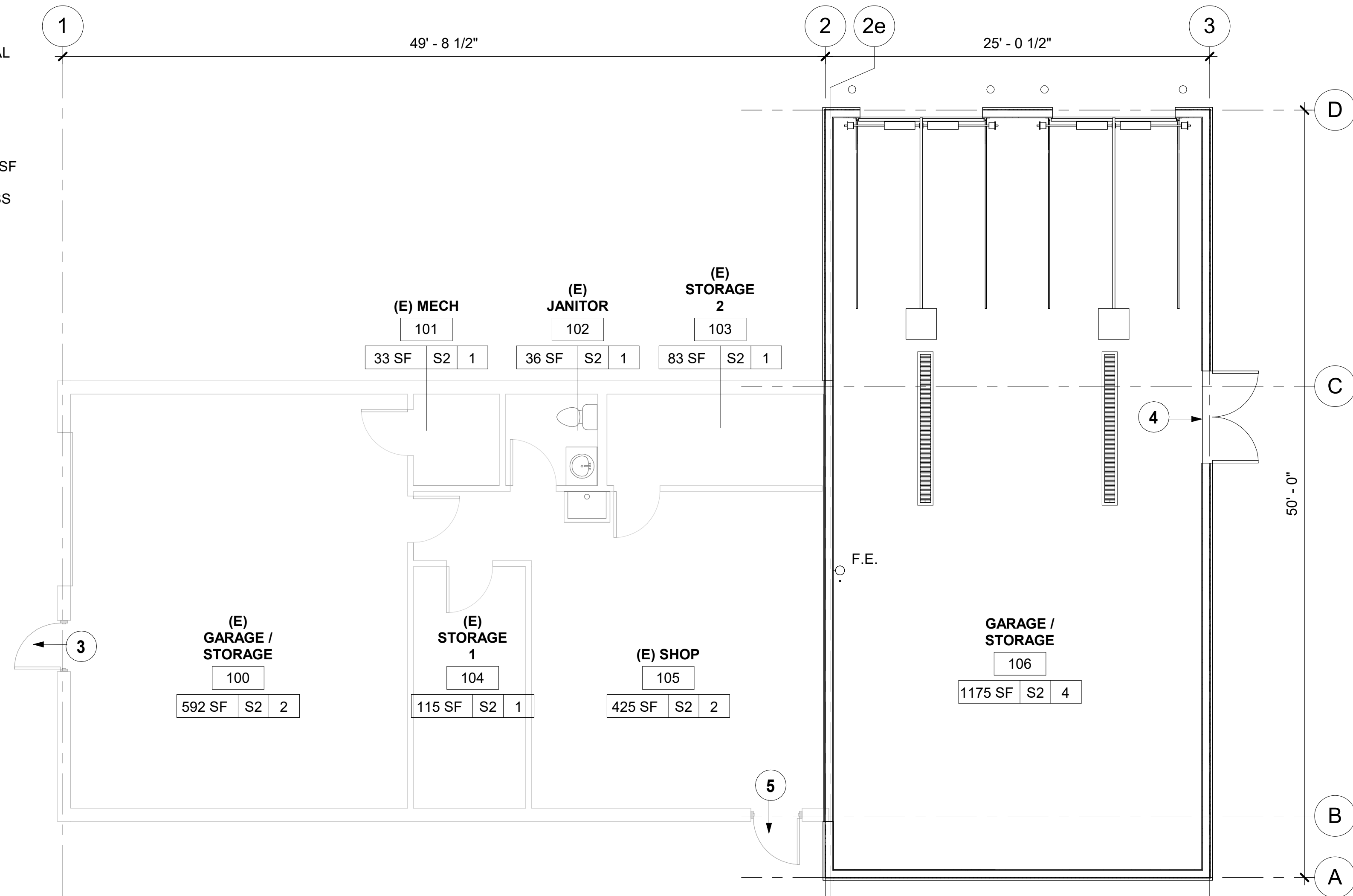
**MAXIMUM TRAVEL DISTANCE (TABLE 1017.2):** MAXIMUM TRAVEL DISTANCE IS LESS THAN 300' PERMITTED FOR NON-SPRINKLED BUILDING.

**TABLE 2902.1:** 1 WATER CLOSET, LAVATORY AND SERVICE SINK ARE REQ'D IN S-2 OCCUPANCY FOR LESS THAN 100 OCCUPANTS. EXISTING FIXTURES ARE PROVIDED IN EXISTING STORAGE BUILDING AND ADJACENT FACILITIES

**FIRE EXTINGUISHERS:** TYPE 2A10B:C PROVIDE IN LOCATIONS SHOWN ON PLAN

OCCUPANT LOADS				
ROOM NO.	ROOM NAME	AREA	OCC. LOAD FACTOR	OCC. LOAD
100	(E) GARAGE / STORAGE	592 SF	300 GSF	2
101	(E) MECH	33 SF	300 GSF	1
102	(E) JANITOR	36 SF	300 GSF	1
103	(E) STORAGE 2	83 SF	300 GSF	1
104	(E) STORAGE 1	115 SF	300 GSF	1
105	(E) SHOP	425 SF	300 GSF	2
106	GARAGE / STORAGE	1175 SF	300 GSF	4

TOTAL OCCUPANTS: 12



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**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23

DRAWN: DBH

CHECKED: DJD

PROJECT: 1718.68

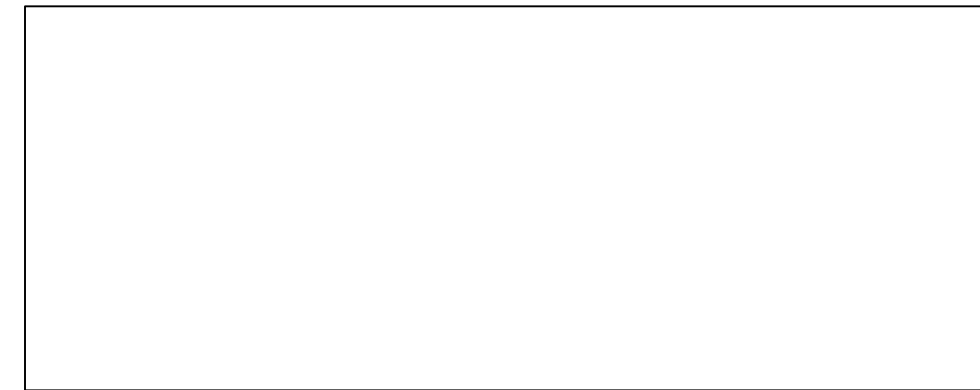
DRAWING TITLE:  
 CODE SUMMARY

REVISIONS:

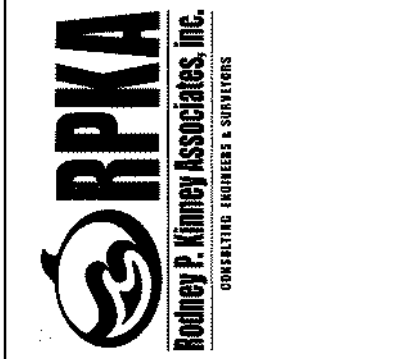
SHEET NO:

**G102**



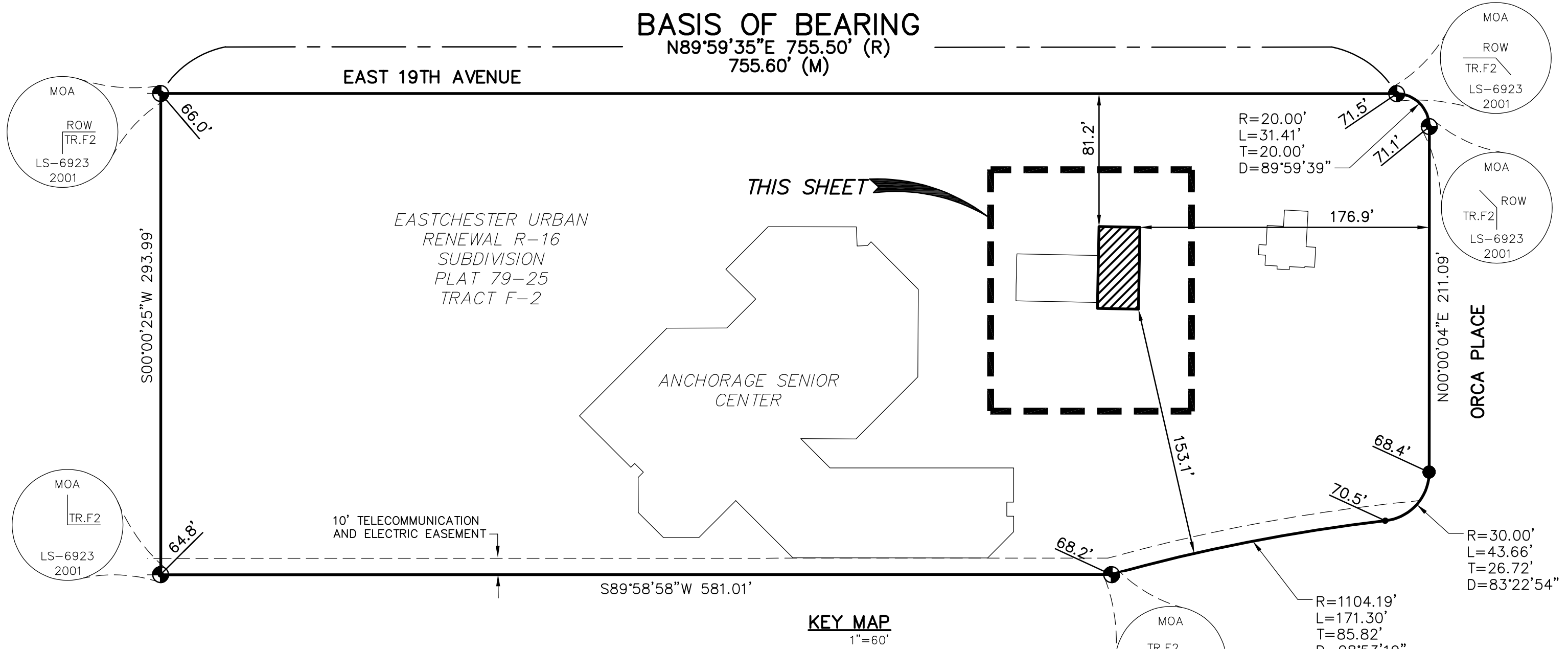
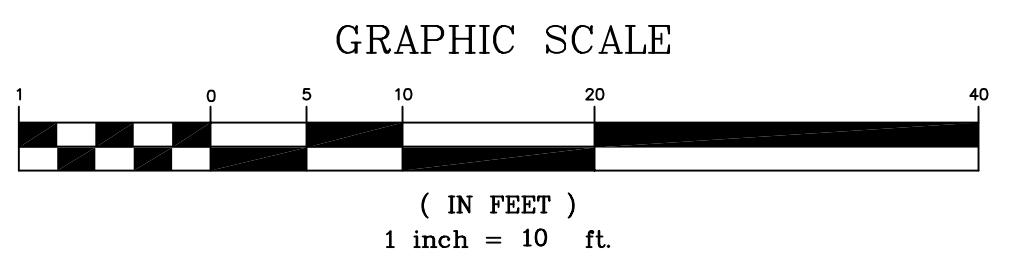
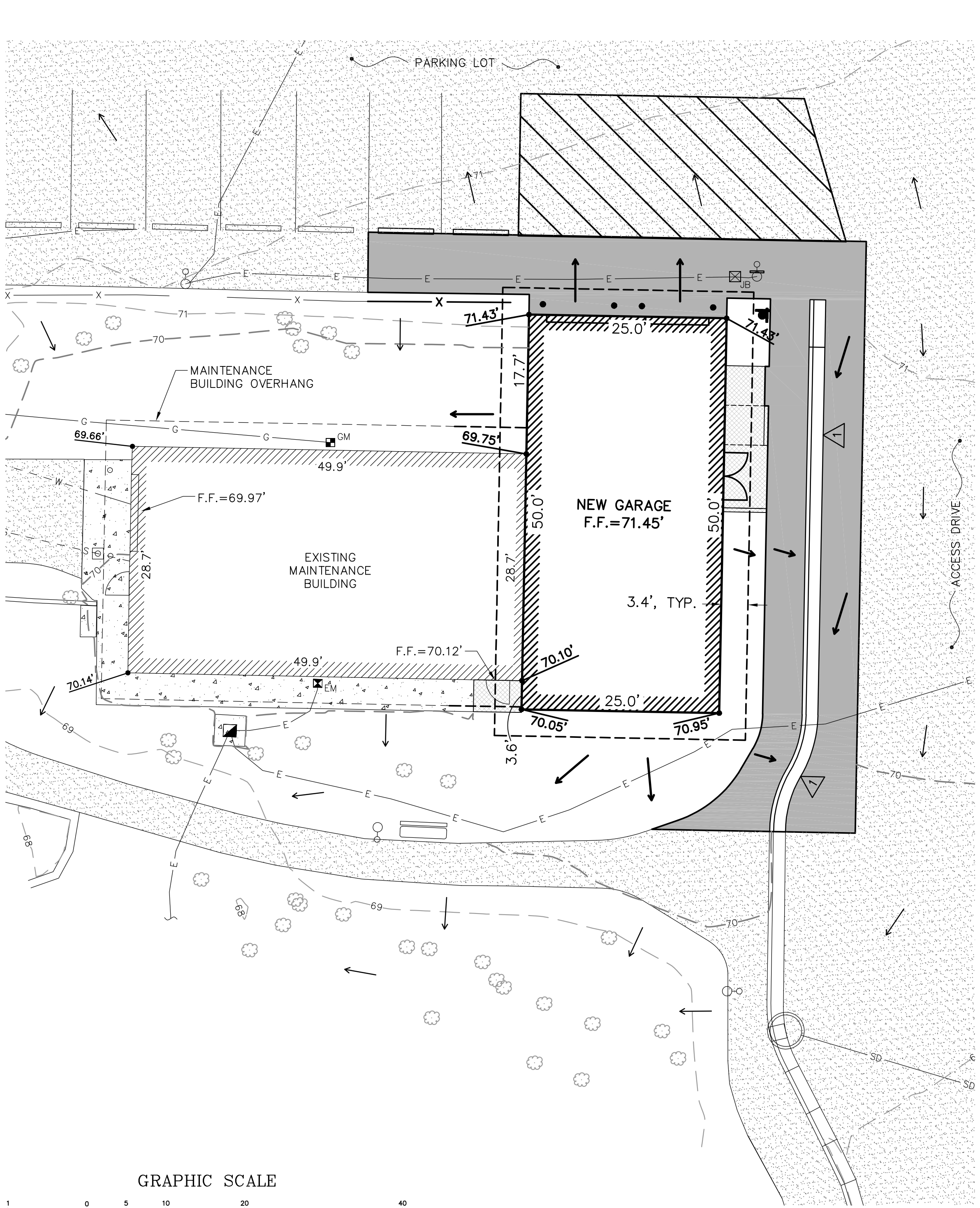


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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	JLD
CHECKED:	CEK
PROJECT:	1812.24
DRAWING TITLE:	PLOT PLAN
REVISIONS:	
SHEET NO:	<b>V101</b>



LEGEND (THIS SHEET ONLY)		
EXISTING	PROPOSED	
		BUILDING
		BUILDING OVERHANG
		ASPHALTIC CONCRETE
		CONCRETE
		CONTOUR (MAJOR)
		CONTOUR (MINOR)
		CURB AND GUTTER
		CURB TYPE (SEE MASS DETAIL 30-1)
		EASEMENT
		ELECTRIC LINE
		FENCE
		GAS LINE
		PROPERTY LINE
		SEWER LINE (UNSURVEYED)
		STRIPING
		STORM DRAIN LINE
		WATER LINE (UNSURVEYED)
		WHEEL STOP
		BOLLARD
		CATCH BASIN WITH CURB INLET
		CLEANOUT
		ELECTRICAL JUNCTION BOX
		ELECTRICAL METER
		ELECTRICAL TRANSFORMER
		GAS METER
		LIGHT POLE
		SIGN
		TREE
		MEASURED
		RECORD PER PLAT 79-25
		2" ALUMINUM CAP
		5/8" REBAR
		DRAINAGE PATTERN
		SPOT ELEVATION

**NOTES:**

- NO CORNERS SET THIS SURVEY.
- DATE OF SURVEY: OCTOBER 2021
- EXCLUSION: IT IS THE OWNERS RESPONSIBILITY TO DETERMINE THE EXISTENCE OF ANY EASEMENTS, COVENANTS, OR RESTRICTIONS WHICH DO NOT APPEAR ON THE RECORDED SUBDIVISION PLAT.
- THE BASIS OF ELEVATION IS MUNICIPALITY OF ANCHORAGE BENCH MARK "MOA CB-4A" DESCRIBED AS FOLLOWS:  
 BEGINNING AT THE INTERSECTION OF EAST 15TH AVENUE AND GAMBELL STREET. THENCE EASTERLY 191 FEET ALONG EAST 15TH AVENUE. THENCE SOUTHERLY 106 FEET TO THE NORTHWEST CORNER OF THE SECRET GARDEN CANNABIS BUILDING. THE B.M. IS SET VERTICALLY IN THE NORTH FACE 0.3 FEET EAST OF SAID NORTHWEST CORNER. USE THE TOP OF DRILL HOLE FOR ELEVATION. ELEVATION=108.90'
- HORIZONTAL CONTROL IS BASED ON PLAT 79-25.
- SPOT ELEVATIONS SHOWN INDICATE PROPOSED AND EXISTING GRADES AROUND BUILDING, SEE SHEET C302 FOR SITE GRADING.

**LEGAL DESCRIPTION**

TRACT F-2, SENIOR CITIZEN CENTER, PLAT 79-25 ANCHORAGE RECORDING DISTRICT, LOCATED IN THE NORTHWEST 1/4 SECTION 20 TOWNSHIP 13 NORTH RANGE 3 WEST, GRID SW 1432, 223,585 SQUARE FEET (5.132 ACRES)  
 ADDRESS: 1300 EAST 19TH AVENUE ANCHORAGE, ALASKA 99519

**GENERAL NOTES:**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS). CONTRACTOR TO PROVIDE SUBMITTALS AS INDICATED IN THE PROJECT SPECIFICATIONS (MASS 10.04, 10.08).
- EXISTING GROUND CONTOURS ARE BASED ON RODNEY P. KINNEY ASSOCIATES, INC. SURVEY PERFORMED IN OCTOBER 2021 AND ARE ACCURATE TO PLUS OR MINUS 1/2 CONTOUR INTERVAL. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. THE OWNER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS. NEW CONTOURS SHOWN ARE APPROXIMATE.
- EXISTING UTILITIES SHOWN IN CIVIL DRAWINGS ARE BASED ON RECORD DRAWINGS AND FIELD LOCATES AND ARE APPROXIMATE ONLY. OTHER UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXACT LOCATIONS BY OBTAINING UTILITY LOCATES PRIOR TO BEGINNING OF CONSTRUCTION. EXERCISE CAUTION DURING EXCAVATION. CONTACT LOCATE CENTER OF ALASKA FOR UNDERGROUND UTILITY LINE LOCATES (907) 278-3121. RODNEY P. KINNEY ASSOCIATES INC. ASSUMES NO LIABILITY FOR ACCURACY OF EXISTING UTILITIES SHOWN HEREIN.
- THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL NEW AND EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION. LOCATIONS AND CHANGES TO NEW AND EXISTING UTILITIES SHALL BE APPROVED BY THE OWNER AND RECORDED IN SURVEY NOTES AND IN REDLINED PLANS AND SUBMITTED WITH AS-BUILT PLANS TO THE OWNER. (MASS 10.04, 65.02).
- PROTECT ALL PROPERTY AND SITE INFRASTRUCTURE TO REMAIN. IF DAMAGED, RESTORE TO ORIGINAL CONDITION AT CONTRACTOR EXPENSE.
- THE CONTRACTOR SHALL FOLLOW ALL MUNICIPALITY OF ANCHORAGE (MOA) REGULATIONS FOR NOISE, HOURS OF OPERATIONS AND DUST CONTROL.
- BOTTOM OF EXCAVATION SHALL BE APPROVED BY THE SOILS ENGINEER AT THE TIME OF EXCAVATION PRIOR TO PLACING BACKFILL.
- ALL CUT AND FILL SLOPES SHALL HAVE A SLOPE OF 2 MINIMUM HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE INDICATED.
- ALL EXCAVATION AND BACKFILL OPERATIONS SHOULD BE COMPLETED ABOVE THE ANTICIPATED GROUNDWATER ELEVATION. IF POSSIBLE, DISTURBANCE TO SOILS BELOW THE LIMITS OF EXCAVATION SHOULD BE LIMITED AND CONSTRUCTION EQUIPMENT SHOULD NOT BE PERMITTED TO TRAVEL OVER UNPROTECTED EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCIDENTAL COSTS ASSOCIATED WITH THE CONSTRUCTION, INCLUDING (BUT NOT LIMITED TO); SHORING DESIGN, SHORING, PROTECTING EXISTING FEATURES FROM DAMAGE, SECURITY OF JOB SITE, DEWATERING, REMOVAL AND REPLACEMENT OF SITE FEATURES TO REMAIN, ETC.
- ALL ON-SITE EXCAVATED SOILS MEETING THE CLASSIFIED MATERIAL SPECIFICATIONS AS IDENTIFIED IN MASS SECTION 20.21 MAY BE REUSED PROVIDING THAT THE CONTRACTOR SUBMITS ALL NECESSARY MATERIAL TESTS AND OBTAINS THE OWNERS APPROVAL PRIOR TO USING THE MATERIAL(S). ALL RELATED COSTS IN THE REUSE OF ON-SITE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER DOES NOT WARRANT OR GUARANTEE THE AVAILABILITY OF REUSABLE ON-SITE MATERIAL. ALL UNUSABLE AND UNSUITABLE EXCAVATION MATERIAL (I.E., ORGANIC, DEBRIS, MUCK, CONTAMINATED SOIL, CONCRETE, A.C., GARBAGE) SHALL BE DISPOSED OF AT A CONTRACTOR FURNISHED OFF-SITE DISPOSAL SITE. ALL SURPLUS MATERIAL SHALL BE DISPOSED OFF-SITE. THERE SHALL BE NO ON-SITE BURNING OF MATERIALS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY CONFLICTS.
- THERE SHALL BE NO OVER EXCAVATING OR MINING OF MATERIALS UNLESS APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS. (MASS 65.02).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TRAFFIC CONTROL PLAN AND SHALL BE RESPONSIBLE FOR RELATED SAFETY CONCERNS.
- WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS PERMITS ARE OBTAINED BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO, THOSE REQUIRED BY THE MUNICIPALITY OF ANCHORAGE STORM WATER PLAN REVIEW OFFICE. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM AN EXCAVATION WITHOUT OBTAINING APPROVALS BY THE OWNER AND PERMIT. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA PERMIT OFFICE.
- STORM DRAIN STATIONING IS TO CENTERLINE OF PIPE. STORM DRAIN PIPE LENGTHS ARE TO CENTER OF MANHOLE, ELEVATIONS ARE TO INVERT OF PIPE, AND SLOPES ARE CALCULATED FROM EDGE OF MANHOLE OR INVERT OF INLET/OUTLET.
- PROVIDE 4 INCHES OF TOPSOIL AND SCHEDULE A MOWABLE SEED MIX FOR ALL DISTURBED AREAS OUTSIDE OF PAVED AREAS (I.E. A.C., CONCRETE, OR GRAVEL PATHWAYS). (MASS 75.03 AND 75.04).
- HAUL ROUTE:
  - IMPORT - ANCHORAGE SAND AND GRAVEL - NORTH ON LANG STREET, EAST ON WALTER J. HICKEL PARKWAY, NORTH ON AK-1 N, EAST ON E. 20TH AVENUE, NORTH ON KARLUK STREET, EAST ON E. 19TH AVE.
  - EXPORT - ANCHORAGE REGIONAL LANDFILL (HILAND) - WEST ON E. 19TH AVENUE, NORTH ON KARLUK STREET, EAST ON AK-1 N, WEST ON E. EAGLE RIVER LOOP ROAD, CONTINUE TO LANDFILL SITE.

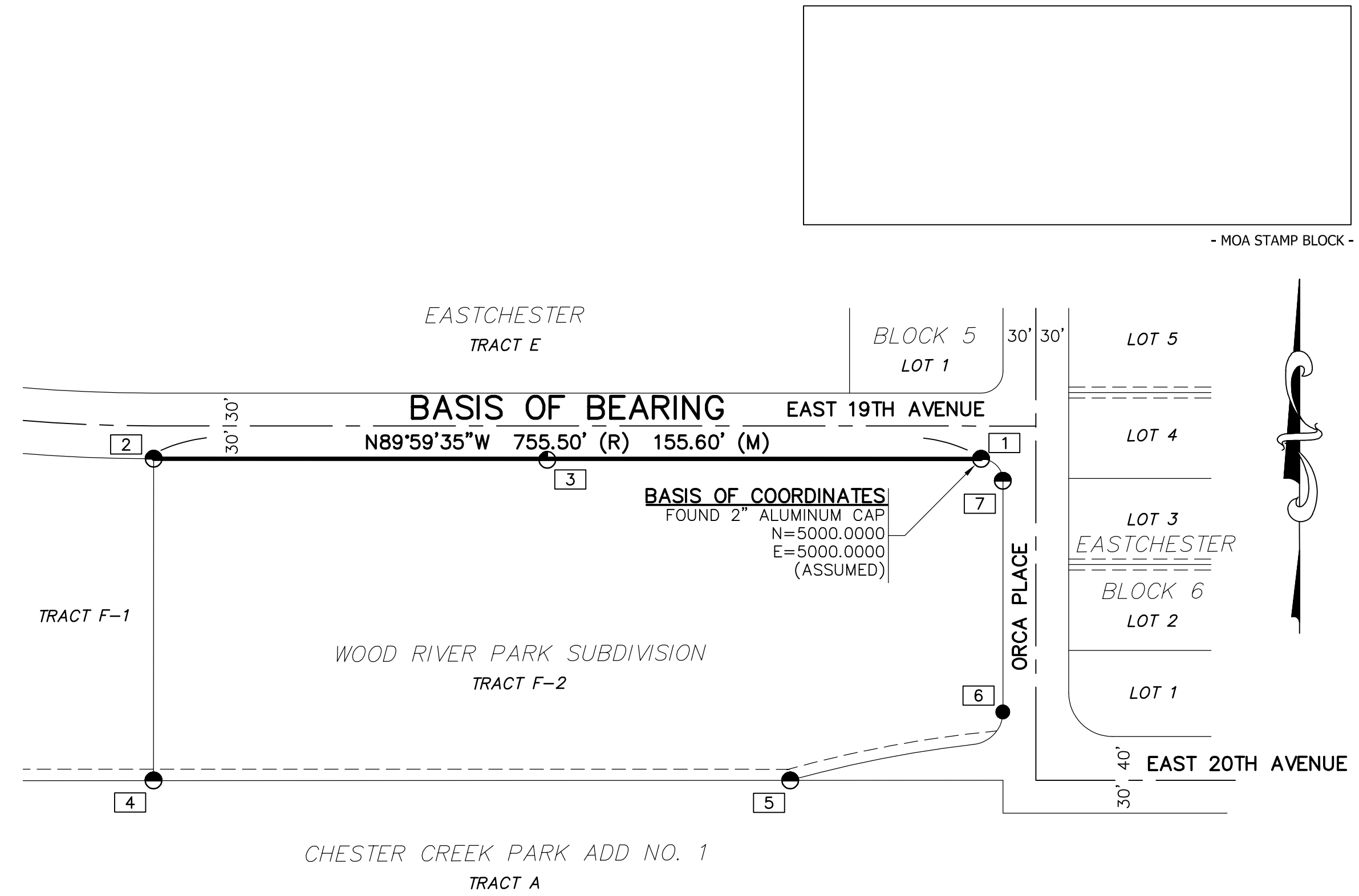
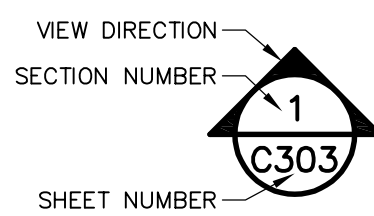
THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY OF ANCHORAGE OF ANY CHANGE TO THE STATED HAUL ROUTE.

**EROSION AND SEDIMENT CONTROL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS. SEE EROSION AND SEDIMENT CONTROL NOTE E.
- APPLY PERMANENT AND TEMPORARY SOIL STABILIZATION TO DENUDED AREAS IMMEDIATELY PER THE 2021 CONSTRUCTION GENERAL PERMIT (CGP) AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION AS DEFINED IN THE SWPPP SHALL BE APPLIED IMMEDIATELY TO DENUDED AREAS THAT MAY NOT BE FINAL GRADE, BUT WILL REMAIN DORMANT OR UNDISTURBED FOR LONGER THAN 14 DAYS, PER THE 2021 CGP.
- STABILIZE OR PROTECT ERODIBLE SOIL STOCKPILES AND DENUDED AREAS WITH SEDIMENT TRAPPING MEASURES TO PREVENT SOIL OR SEDIMENT TRANSPORT DURING PERIODS OF WET WEATHER IN ACCORDANCE TO THE SWPPP.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION, OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE OWNER. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE DEPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- A TYPE 1 STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN COMPLETED AND IS AVAILABLE FOR THE CONTRACTOR'S USE. THE CONTRACTOR MAY ELECT NOT TO USE THIS DOCUMENT AND PROVIDE THEIR OWN MUNICIPALITY OF ANCHORAGE APPROVED SWPPP. SHOULD THE CONTRACTOR ELECT TO USE THE TYPE 1 SWPPP PROVIDED, THE CONTRACTOR MUST SIGN THE OWNER'S STATEMENT AS THE OPERATOR OF THIS PROJECT. ALL EQUIPMENT, LABOR AND MATERIAL COSTS TO COMPLY TO THE SWPPP ARE THE CONTRACTOR'S RESPONSIBILITY.

**PLAN LEGEND**

EXISTING	PROPOSED	
		BUILDING
		BUILDING OVERHANG
		ASPHALTIC CONCRETE
		CONCRETE
		CONTOUR (MAJOR)
		CONTOUR (MINOR)
		CUT/FILL DAYLIGHT LINE
		GRADE BREAK
		CURB AND GUTTER
		CURB TYPE (SEE MASS DETAIL 30-1)
		EASEMENT
		ELECTRIC LINE
		FENCE
		GAS LINE
		PROPERTY LINE
		RIGHT-OF-WAY CENTERLINE
		SEWER LINE (UNSURVEYED)
		STORM DRAIN LINE
		WATER LINE (UNSURVEYED)
		WHEEL STOP
		BOLLARD
		CATCH BASIN WITH CURB INLET
		CLEANOUT
		ELECTRICAL JUNCTION BOX
		ELECTRICAL METER
		ELECTRICAL TRANSFORMER
		GAS METER
		LIGHT POLE
		SANITARY SEWER MANHOLE
		SIGN
		TREE
		ALUMINUM CAP
		REBAR
		TBM
		SITE CROSS SECTION



PRIMARY SURVEY CONTROL TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	5000.0000	5000.0000	-	2" ALUMINUM CAP
2	5000.0916	4244.4020	-	2" ALUMINUM CAP
3	4999	4604	70.93'	TBM FIRE HYDRANT TOP OF SOUTHWEST NUT ON THE UPPER RIM. CONTRACTOR TO VERIFY ELEVATION.

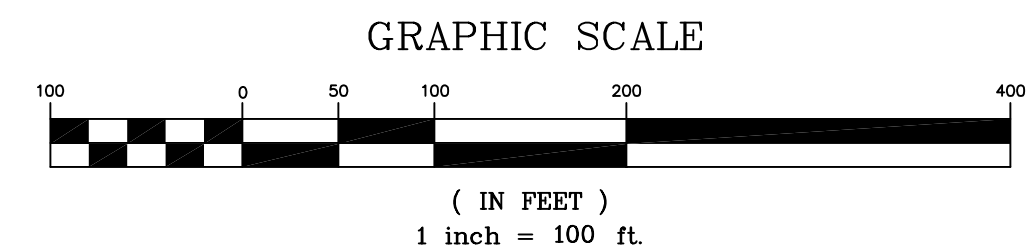
SECONDARY SURVEY CONTROL TABLE FOR REFERENCE ONLY				
POINT	NORTHING	EASTING		DESCRIPTION
4	4706.2066	4244.3266		2" ALUMINUM CAP
5	4706.1894	4825.7256		2" ALUMINUM CAP
6	4768.8094	5019.8738		5/8" REBAR
7	4979.8533	5019.9452		2" ALUMINUM CAP

**BASIS OF ELEVATION:**

VERTICAL CONTROL IS MOA BENCH MARK CB-4A BEGINNING AT THE INTERSECTION OF EAST 15TH AVENUE AND GAMBELL STREET. THENCE EASTERLY 191 FEET ALONG EAST 15TH AVENUE, THENCE SOUTHERLY 106 FEET TO THE NORTHWEST CORNER OF THE SECRET GARDEN CANNABIS BUILDING. THE B.M. IS SET VERTICALLY IN THE NORTH FACE 0.3 FEET EAST OF SAID NORTHWEST CORNER. USE THE TOP OF DRILL HOLE FOR ELEVATION. ELEVATION=108.90'

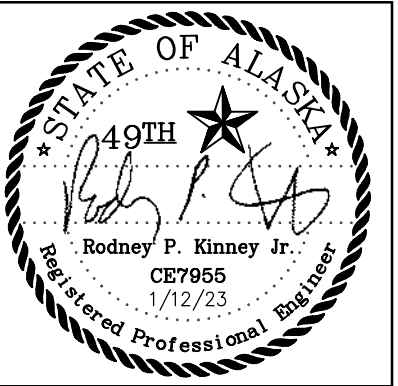
**BASIS OF BEARING:**

THE BASIS OF BEARING ON THIS PROJECT IS COMPUTED FROM RECORD DATA PER PLATS #79-25 FOR REFERENCE ONLY. THE FIELD SURVEY WAS CONDUCTED IN OCTOBER 2021. THE FIELD SURVEY WAS COMPLETED USING A HIGH PRECISION GPS SURVEY USING TRIMBLE R10 RECEIVERS DIFFERENTIALLY CORRECTED AND PROCESSED USING TRIMBLE BUSINESS CENTER SOFTWARE.

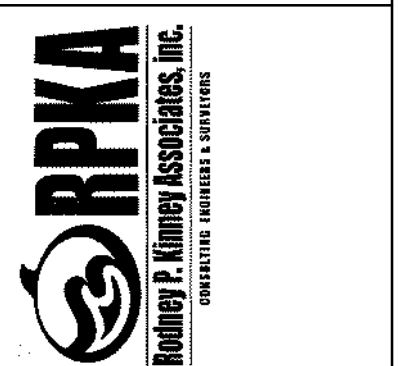


**ABBREVIATIONS**

ADOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	L.F.	LINEAR FOOT	SDCB	STORM DRAIN CATCH BASIN
APPROX.	APPROXIMATE	MASS	MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS	SDMH	STORM DRAIN MANHOLE
A.C.	ASPHALTIC CONCRETE	MAX.	MAXIMUM	STA.	STATION
CL/CL	CENTERLINE	MIN.	MINIMUM	SQ.	SQUARE
CPEP	CORRUGATED POLYETHYLENE PIPE	MOA	MUNICIPALITY OF ANCHORAGE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
DIA.	DIAMETER	N	NORTH/NORTHING	TBM	TEMPORARY BENCH MARK
E	EAST/EASTING, ELECTRIC	N/A	NOT APPLICABLE	TYP.	TYPICAL
EL.	ELEVATION	NTS	NOT TO SCALE	UPC	UNIFORM PLUMBING CODE, LATEST MOA APPROVED EDITION
F.F.	FINISH FLOOR ELEVATION	OHD	OVERHEAD DOOR	V/VERT.	VERTICAL
FT	FEET	PVC	POLYVINYL CHLORIDE	W	WEST, WATER
H/HORZ.	HORIZONTAL	R.O.W.	RIGHT-OF-WAY	(M)	MEASURED
INV.	INVERT	S	SOUTH, SEWER	(R)	RECORD PER PLAT 79-25



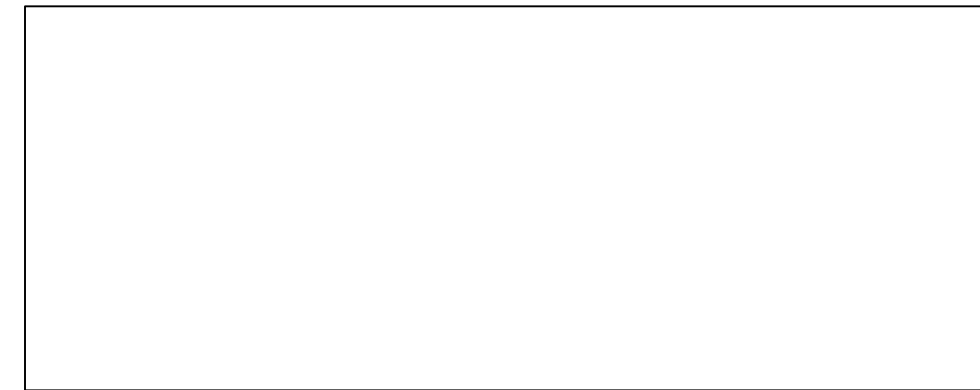
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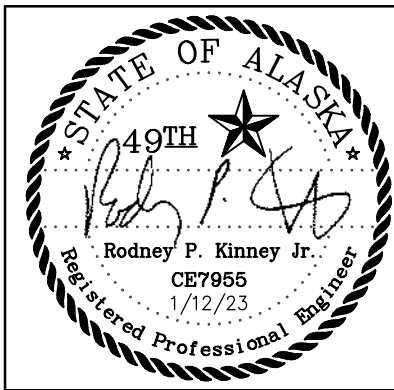
MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	JLD
CHECKED:	RPK/JBK
PROJECT:	1812.24
DRAWING TITLE:	GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SURVEY CONTROL
REVISIONS:	
SHEET NO:	<b>C101</b>

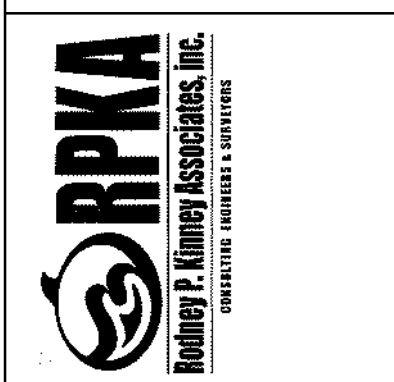




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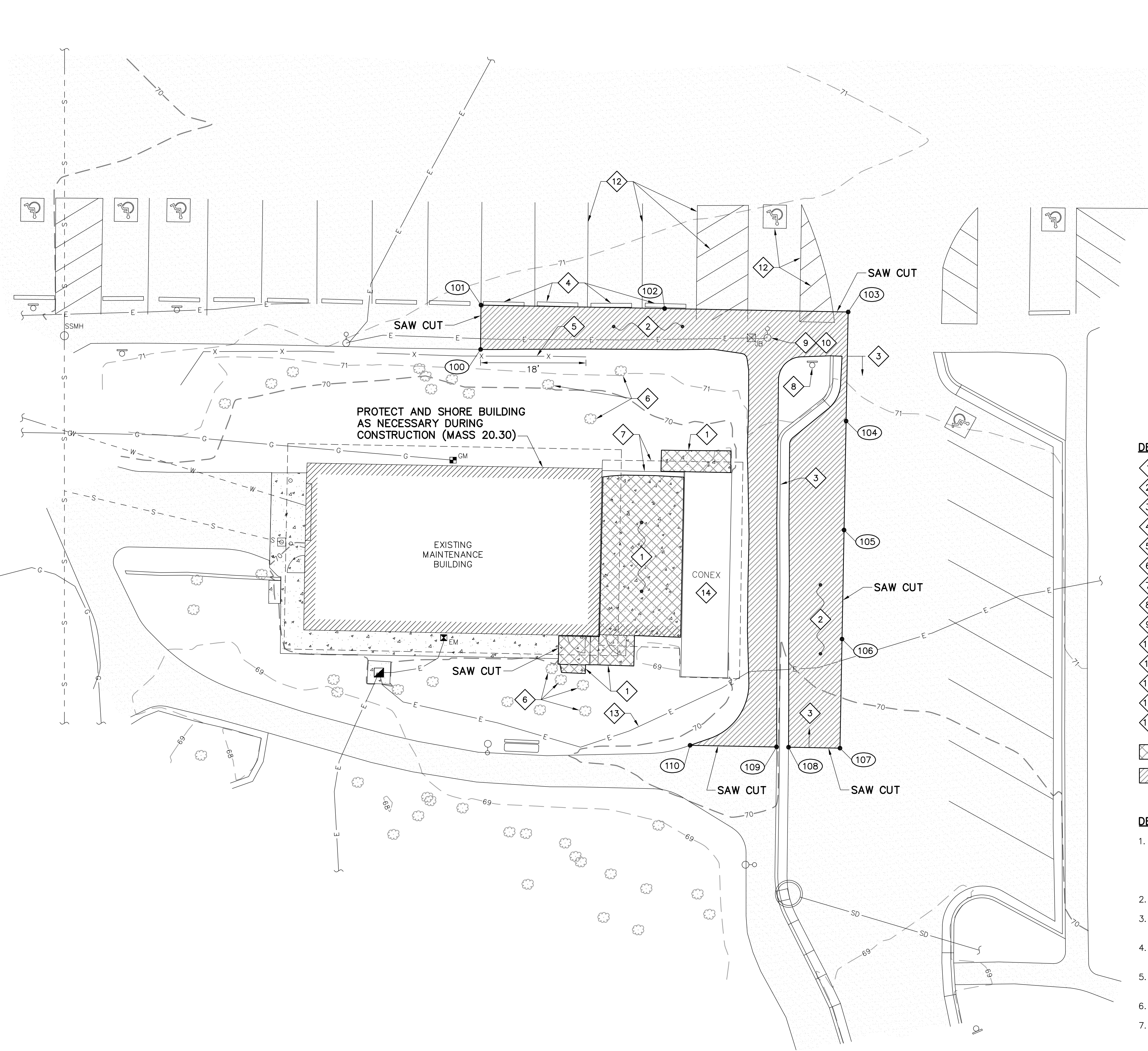


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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23  
DRAWN: JLD  
CHECKED: RPK/JBK  
PROJECT: 1812.24  
DRAWING TITLE:  
DEMOLITION PLAN  
REVISIONS:  
SHEET NO:  
**C201**



POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
100	4921.5921	4797.6409	A.C. CUT
101	4929.2105	4797.7102	A.C. CUT
102	4928.6176	4829.2453	A.C. CUT
103	4928.0248	4860.7794	A.C. CUT
104	4909.2968	4860.4261	A.C. CUT
105	4890.5688	4860.0727	A.C. CUT
106	4871.8408	4859.7193	A.C. CUT
107	4853.1128	4859.3659	A.C. CUT
108	4853.2795	4850.5327	A.C. CUT
109	4853.3180	4848.4942	A.C. CUT
110	4853.5987	4833.6166	A.C. CUT

NOTE: SEE NOTE 1, DETAIL 1, SHEET C401 FOR ADDITIONAL AC CUT REQUIREMENTS.

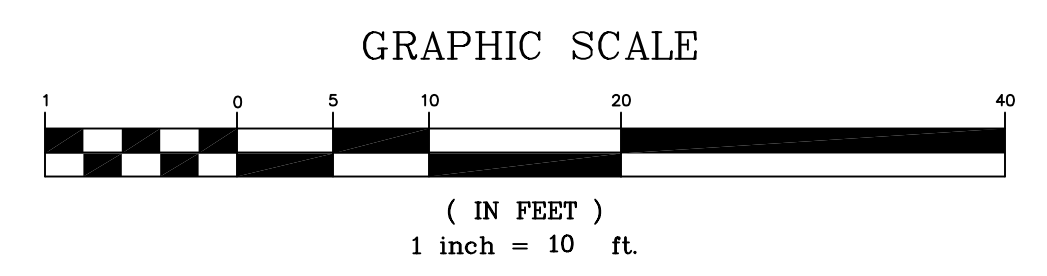
**DEMOLITION SCHEDULE**

- 1 REMOVE AND DISPOSE OF CONCRETE SLAB, SAW CUT WHERE REQUIRED. (MASS 20.07).
- 2 REMOVE AND DISPOSE OF A.C., SAW CUT WHERE REQUIRED. (MASS 20.09)
- 3 REMOVE AND DISPOSE OF CONCRETE CURB & GUTTER.
- 4 REMOVE AND SALVAGE WHEEL STOP FOR REUSE, SEE DEMOLITION NOTE 8, THIS SHEET.
- 5 REMOVE, SALVAGE, AND REINSTALL APPROXIMATELY 18' OF WOOD FENCE, SEE DEMOLITION NOTE 7, THIS SHEET.
- 6 REMOVE AND DISPOSE OF TREE, STUMP, AND ROOTS. (MASS 20.04).
- 7 STRUCTURE TO BE REMOVED AND DISPOSED, SEE ARCHITECTURAL.
- 8 REMOVE AND SALVAGE "ONE WAY" SIGNS FOR REUSE.
- 9 LIGHT POLE AND JUNCTION BOX TO REMAIN, PROTECT DURING CONSTRUCTION.
- 10 REMOVE AND DISPOSE SIGN ON LIGHT POLE.
- 11 BENCH TO REMAIN, PROTECT DURING CONSTRUCTION, SEE DEMOLITION NOTE 9, THIS SHEET.
- 12 REMOVE PAINT MARKINGS ON PAVEMENT.
- 13 ELECTRICAL LINE TO REMAIN, PROTECT DURING CONSTRUCTION, SEE DEMOLITION NOTE 9, THIS SHEET.
- 14 DEMOLISH EXISTING CONEX - COMPLETE.

- CONCRETE TO BE REMOVED
- ASPHALT TO BE REMOVED

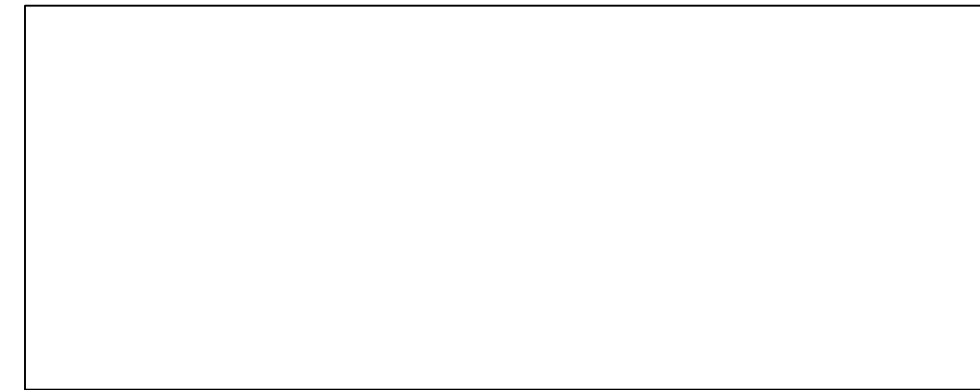
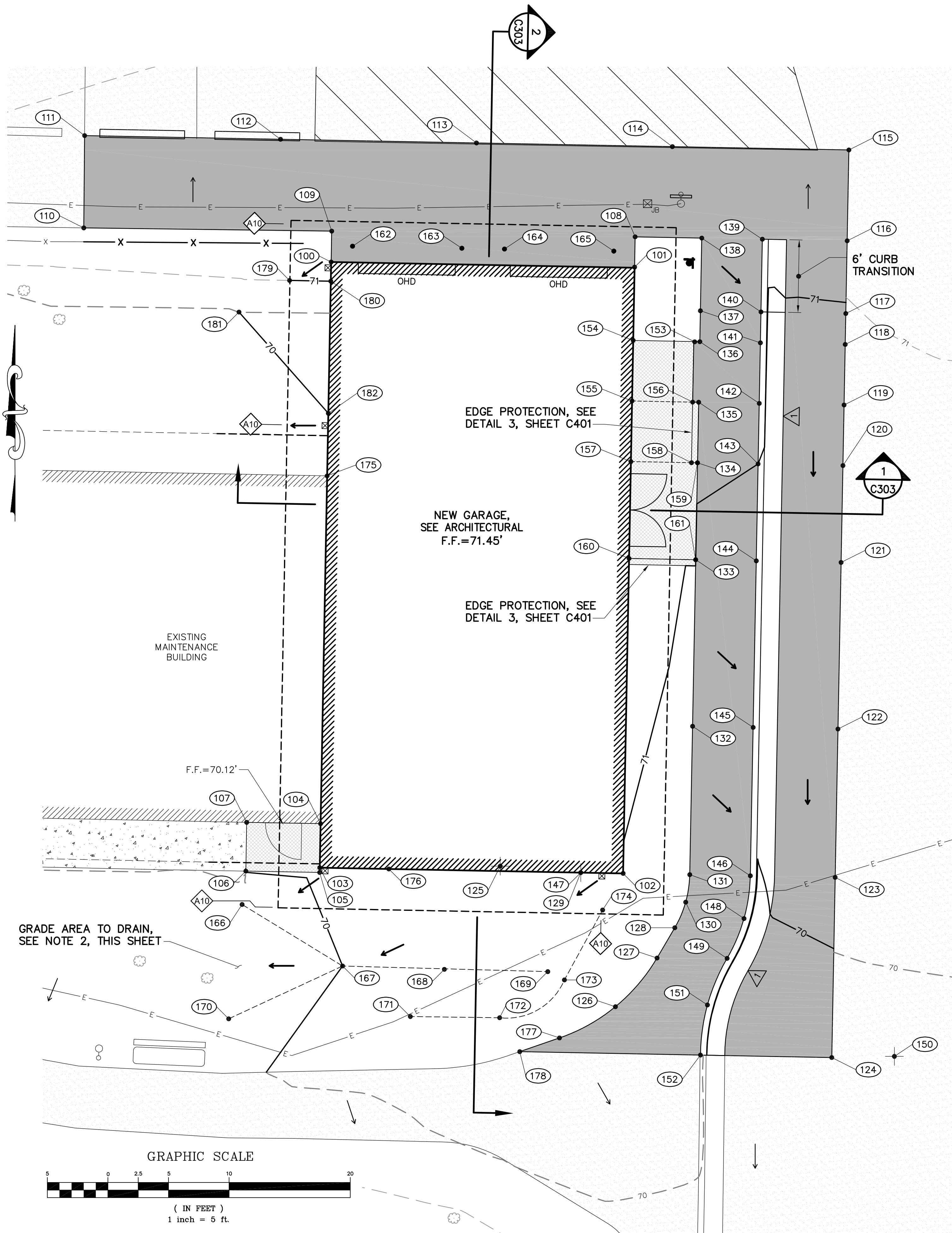
**DEMOLITION NOTES:**

- 1. THIS DRAWING IS INTENDED TO CONVEY THE EXISTING CONDITIONS REQUIRING DEMOLITION TO ACCOMMODATE NEW WORK. ALL ABOVE GROUND ITEMS REQUIRING DEMOLITION MAY NOT BE SHOWN. ADDITIONAL SITE STRUCTURES OR ABOVE GROUND ITEMS MAY REQUIRE DEMOLITION, REMOVAL AND DISPOSAL TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS. IT IS RECOMMENDED THAT THE CONTRACTOR MAKE A SITE VISIT PRIOR TO SUBMISSION OF BID.
- 2. COORDINATE ALL UTILITY DISCONNECTS WITH APPROPRIATE UTILITY AND THE OWNER.
- 3. PROTECT EXISTING SITE IMPROVEMENTS THAT ARE TO REMAIN. IF DAMAGED, RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER AT CONTRACTOR'S EXPENSE.
- 4. DEMOLITION INCLUDES ALL CLEARING LIMITS AND GRUBBING AND STRIPPING NECESSARY TO COMPLETE THE NEW WORK.
- 5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND DISPOSING OF ALL DEMOLISHED MATERIALS AT A CONTRACTOR PROVIDED DISPOSAL SITE.
- 6. CLEAR AND GRUB ALL AREAS WITHIN 10 FEET OF NEW BUILDING.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AN AS-BUILT OF THE WOOD FENCE IN ORDER TO RECONSTRUCT TO EXISTING CONDITIONS AND LOCATIONS, SEE SHEET C301. REMOVE TO NEAREST POST.
- 8. THE OWNER SHALL HAVE RIGHT OF FIRST REFUSAL PRIOR TO DISPOSING AND REMOVING DEMOLISHED MATERIAL, INDICATED IN THE CONSTRUCTION DOCUMENTS AND BY THE OWNER. CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO COMMENCING WORK AND OBTAIN LIST OF ITEMS TO BE SALVAGED AND RETURNED.
- 9. CONTRACTOR MAY REMOVE AND SALVAGE ITEM(S) AND RE-INSTALL. SEE GENERAL NOTE 5, SHEET C101.







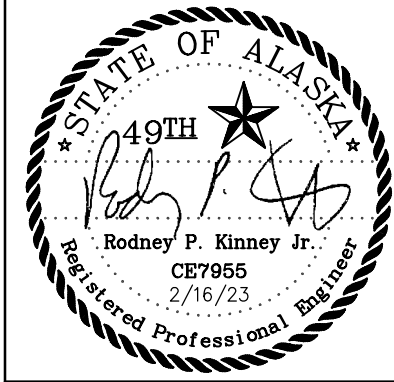


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COORDINATE TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	4918.7759	4818.0557	71.43	BUILDING CORNER
101	4918.3555	4843.0939	71.43	BUILDING CORNER
102	4868.3123	4842.1496	70.95	BUILDING CORNER
103	4868.7847	4817.1124	70.05	BUILDING CORNER
104	4872.4174	4817.1809	70.10	CONCRETE
105	4868.3954	4817.1050	70.05	CONCRETE
106	4868.4984	4811.0175	70.05	CONCRETE
107	4872.5243	4811.0822	70.10	CONCRETE
108	4920.8551	4843.1409	71.40	A.C.
109	4921.3259	4818.1008	71.40	A.C.
110	4921.5921	4797.6416	MATCH EXISTING	A.C.
111	4929.2105	4797.7102	MATCH EXISTING	A.C.
112	4928.9066	4813.8782	MATCH EXISTING	A.C.
113	4928.6026	4830.0461	MATCH EXISTING	A.C.
114	4928.2986	4846.2141	MATCH EXISTING	A.C.
115	4928.0248	4860.7794	MATCH EXISTING	A.C.
116	4920.5253	4860.6379	MATCH EXISTING	A.C.
117	4914.5263	4860.5247	MATCH EXISTING	A.C.
118	4911.9743	4860.4763	MATCH EXISTING	A.C.
119	4906.9751	4860.3820	MATCH EXISTING	A.C.
120	4901.9760	4860.2877	MATCH EXISTING	A.C.
121	4893.9775	4860.1367	MATCH EXISTING	A.C.
122	4880.2299	4859.8776	MATCH EXISTING	A.C.
123	4867.9821	4859.6465	MATCH EXISTING	A.C.
124	4853.1128	4859.3659	MATCH EXISTING	A.C.
125	4868.9106	4832.0076	-	A.C. R=15'
126	4857.3073	4841.5136	70.28	A.C. POC
127	4861.3261	4844.9488	70.33	A.C. PT
128	4863.8285	4846.4155	70.36	A.C. PC
129	4868.3783	4838.6502	-	A.C. R=9'
130	4865.9393	4847.3134	70.43	A.C. POC
131	4868.2085	4847.6486	70.50	A.C. PT
132	4880.4563	4847.8797	70.75	A.C., GRADE BREAK
133	4894.2039	4848.1389	70.94	A.C., GRADE BREAK
134	4902.2024	4848.2898	71.06	A.C.
135	4907.2015	4848.3841	71.24	A.C., GRADE BREAK
136	4912.2007	4848.4784	71.31	A.C., GRADE BREAK
137	4914.7529	4848.5269	71.38	A.C., GRADE BREAK
138	4920.7517	4848.6401	71.38	A.C., GRADE BREAK
139	4920.6573	4853.6392	71.31	TBC, BEGIN TRANSITION
140	4914.6584	4853.5260	71.33	TBC, END TRANSITION
141	4912.1063	4853.4776	71.26	TBC, GRADE BREAK
142	4907.1072	4853.3832	71.14	TBC, GRADE BREAK

COORDINATE TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
143	4902.1081	4853.2889	71.00	TBC, GRADE BREAK
144	4894.1095	4853.1380	70.88	TBC, GRADE BREAK
145	4880.3620	4852.8788	70.70	TBC, GRADE BREAK
146	4868.1142	4852.6477	70.45	TBC PC
147	4868.3783	4838.6502	-	TBC R=14'
148	4864.5835	4852.1261	70.38	TBC POC
149	4861.2994	4850.7286	70.31	TBC PRC
150	4853.2092	4864.5326	-	TBC R=16'
151	4857.4528	4849.1056	70.23	TBC POC
152	4853.3172	4848.5329	MATCH EXISTING	TBC PT
153	4912.1886	4848.0553	71.32	CONCRETE
154	4912.3044	4842.9794	71.37	CONCRETE
155	4907.3053	4842.8851	71.30	CONCRETE GRADE BREAK
156	4907.2110	4847.8842	71.24	CONCRETE GRADE BREAK
157	4902.3062	4842.7908	71.43	CONCRETE GRADE BREAK
158	4902.2119	4847.7899	71.38	CONCRETE GRADE BREAK
159	4902.2026	4848.2798	71.38	CONCRETE
160	4894.3076	4842.6398	71.43	CONCRETE
161	4894.2040	4848.1289	71.38	CONCRETE
162	4920.0839	4819.8191	-	BOLLARD
163	4919.9136	4828.8406	-	BOLLARD
164	4919.8473	4832.3586	-	BOLLARD
165	4919.6770	4841.3800	-	BOLLARD
166	4865.7436	4810.7055	MATCH EXISTING	GRADING
167	4860.6658	4819.0003	70.00	GRADING
168	4860.3917	4827.3954	70.25	GRADING
169	4860.2048	4835.9327	70.50	GRADING
170	4856.3076	4809.5964	MATCH EXISTING	GRADING
171	4856.4965	4824.5910	70.25	GRADING
172	4856.3976	4831.9594	70.34	GRADING
173	4859.5210	4837.3056	70.47	GRADING
174	4865.2915	4840.4574	70.70	GRADING
175	4901.1259	4817.7226	69.75	GRADING
176	4868.6771	4822.8162	70.26	GRADING
177	4854.7300	4836.8974	70.22	A.C. PC
178	4853.5987	4833.6166	MATCH EXISTING	A.C.
179	4917.2562	4814.6264	71.00	GRADING
180	4917.1924	4818.0258	71.00	GRADING
181	4914.6456	4810.4480	70.00	GRADING
182	4906.2887	4817.8200	70.00	GRADING

- LEGEND**  
(THIS SHEET ONLY)
- EXISTING DRAINAGE
  - PROPOSED DRAINAGE
  - ◊ A10 GUTTER DOWNSPOUT LOCATION, SEE ARCHITECTURAL
  - ⊠ DOWNSPOUT DISCHARGE LOCATION
- NOTES:**
- SEE SHEET C304 FOR NEW SIGNAGE AND ASPHALT PAINT STRIPING.
  - GRADE AREA SOUTH OF THE EXISTING MAINTENANCE BUILDING SOUTHERN ENTRY TO DIRECT RUNOFF WEST.

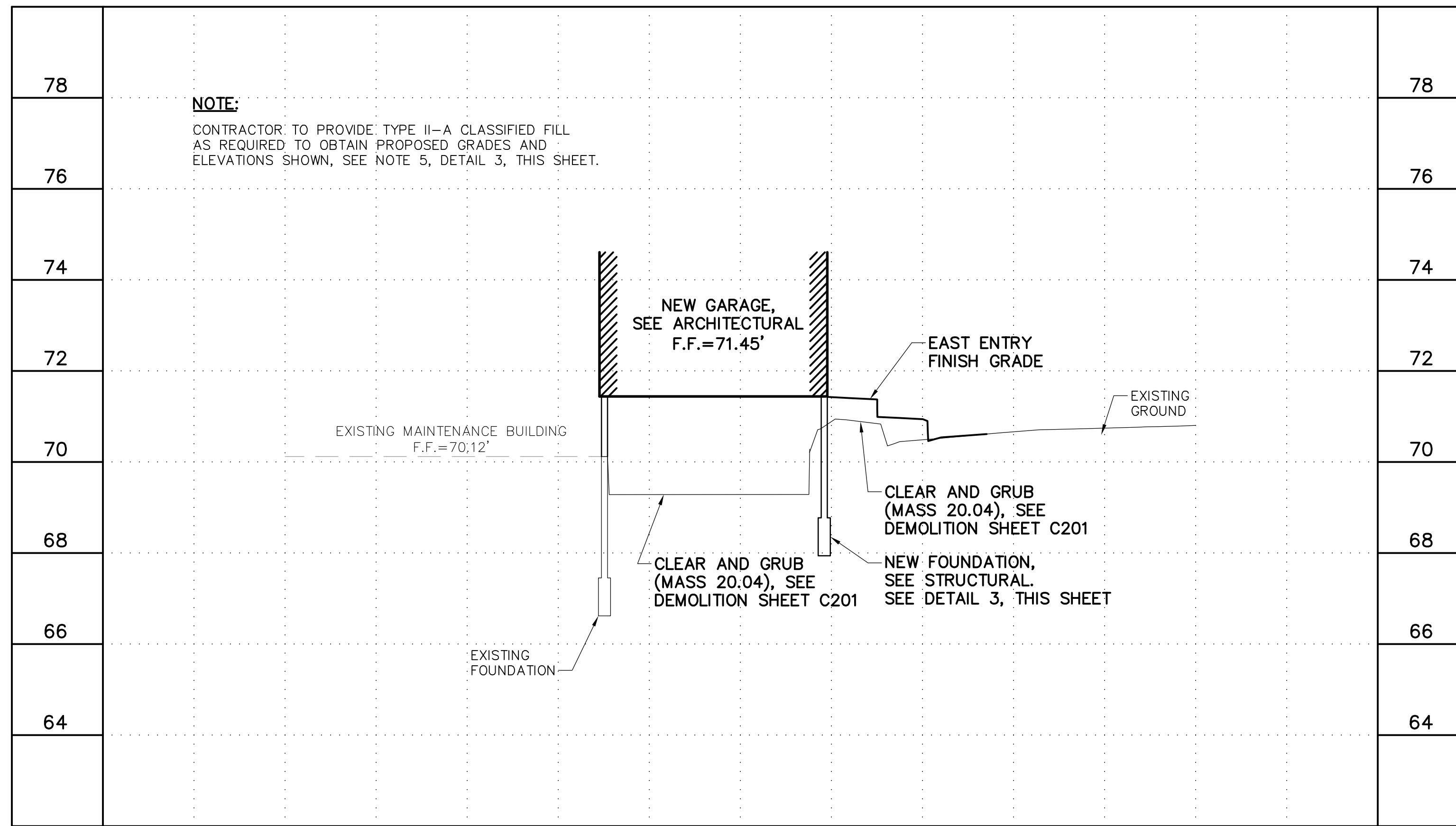


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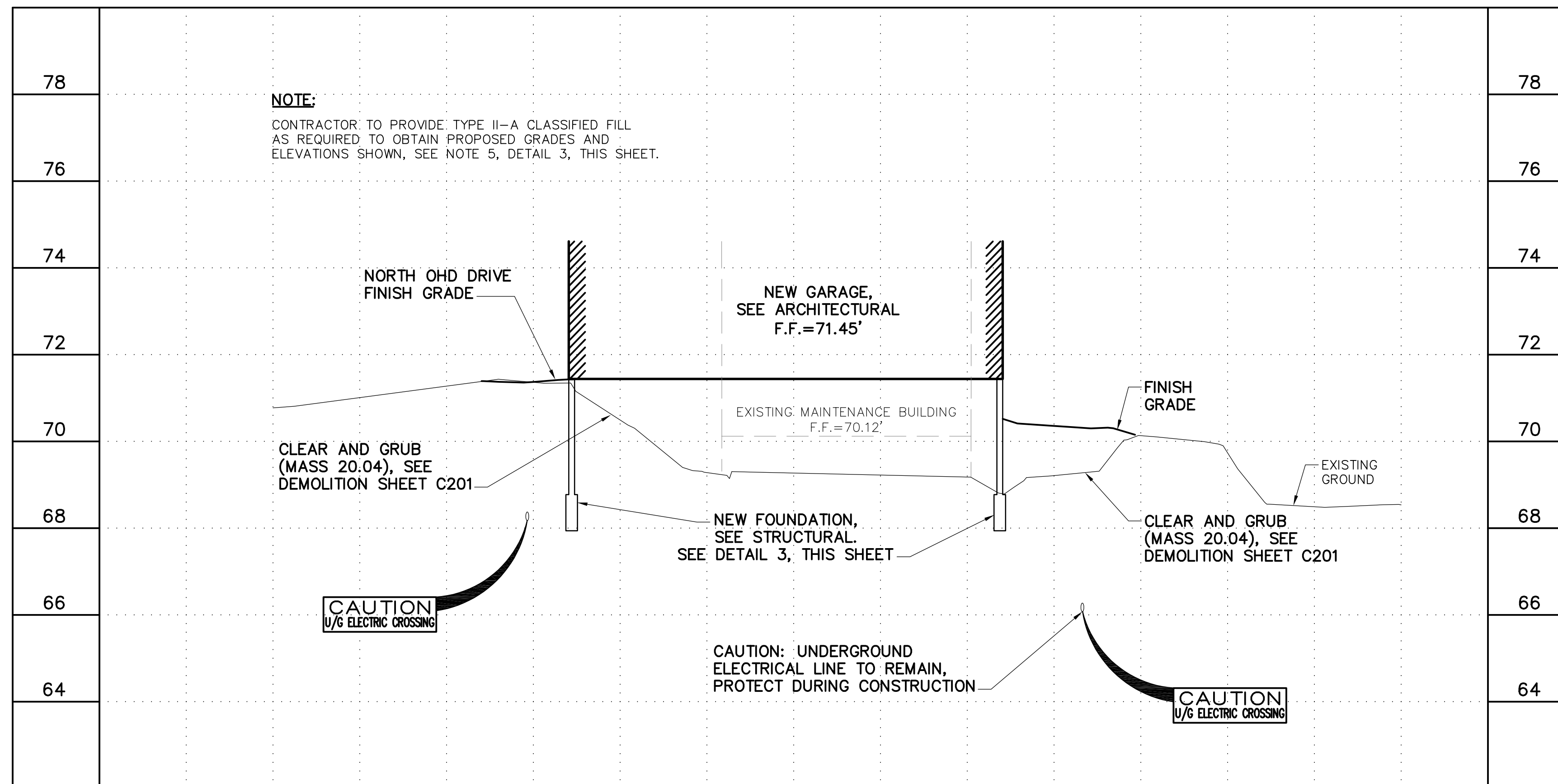


MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

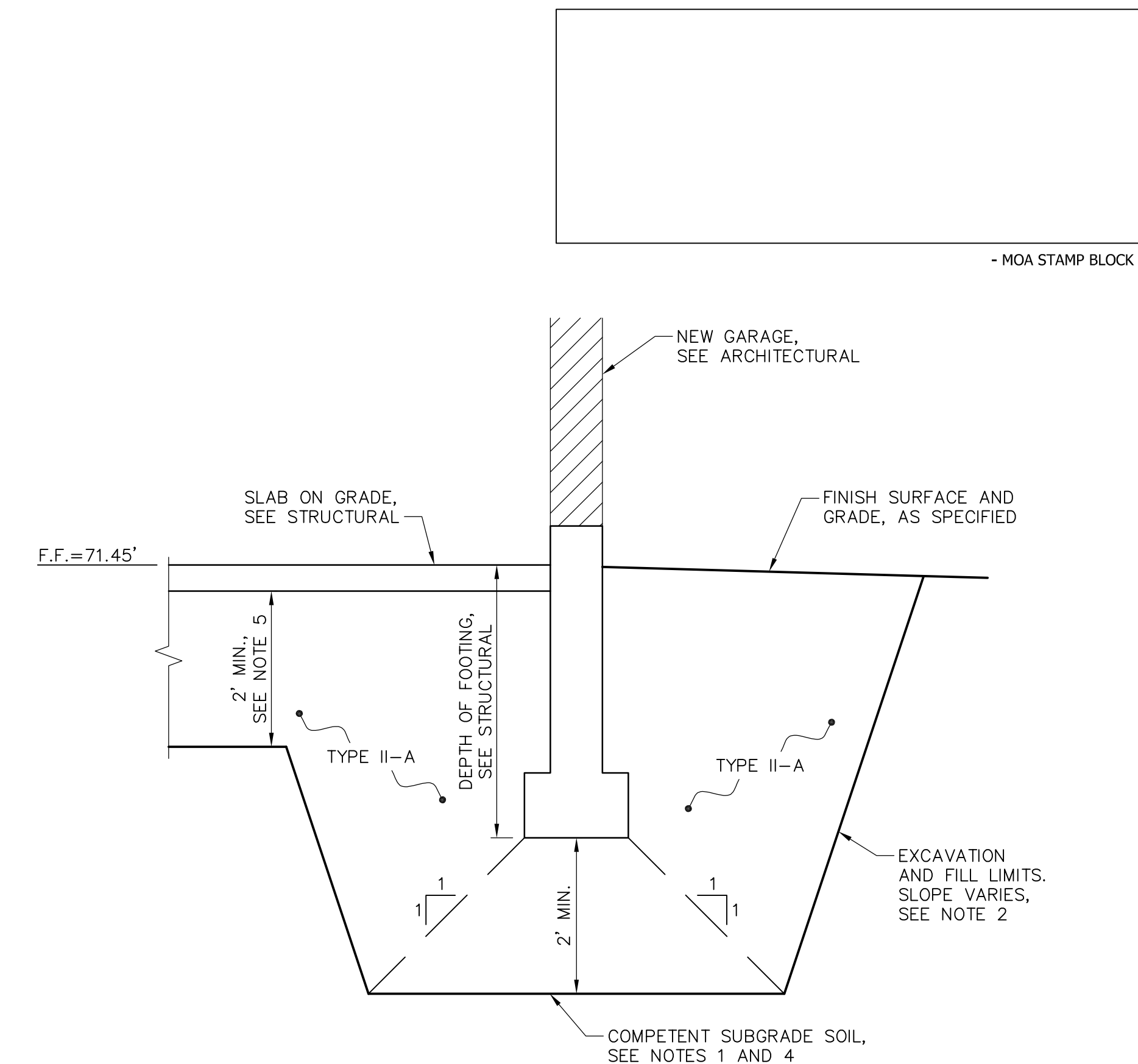
DATE: 1/12/23  
DRAWN: JLD  
CHECKED: RPK/JBK  
PROJECT: 1812.24  
DRAWING TITLE:  
GRADING AND DRAINAGE  
REVISIONS:  
1 2/16/23 DOWNSPOUT LOCATION AND DISCHARGE  
SHEET NO:  
**C302**



**1** EAST-WEST CROSS SECTION  
SCALE: H: 1"=10' V: 1"=2'



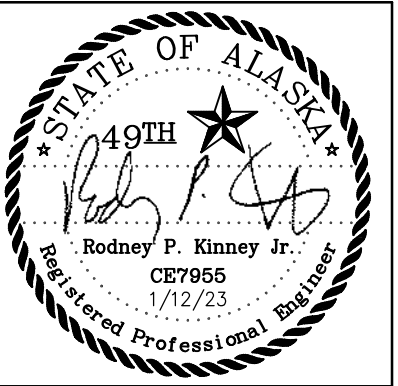
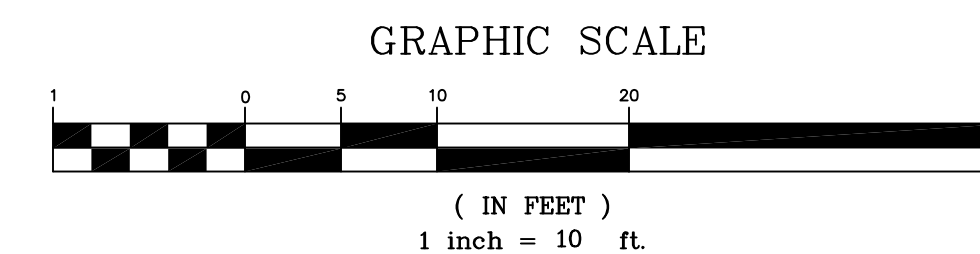
**2** NORTH-SOUTH CROSS SECTION  
SCALE: H: 1"=10' V: 1"=2'



**NOTES:**

1. PREPARE THE EXPOSED SUBGRADE BY SCARIFYING TO A MINIMUM OF 6 INCHES AND PROOF ROLLING TO A MINIMUM OF 95% THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. FOUNDATION SOILS TO BE APPROVED BY OWNER PRIOR TO BACKFILLING.
2. EMBANKMENT SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
3. ALL CLASSIFIED MATERIAL SHALL BE COMPACTED TO 95% MINIMUM OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. CONTRACTOR SHALL VERIFY DEPTH TO COMPETENT SOILS DURING CONSTRUCTION. PROVIDE ADDITIONAL EXCAVATION AT THE DIRECTION OF THE OWNER. UNUSABLE EXCAVATION MATERIAL SHALL BE DISPOSED AT A CONTRACTOR PROVIDED SITE. BACKFILL IN OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH TYPE-IIA CLASSIFIED MATERIAL.
5. CONTRACTOR SHALL PROVIDE TYPE II-A AS NEEDED TO CONSTRUCT TO GRADES SHOWN (INCIDENTAL TO CONTRACT).

**3** FOOTING EXCAVATION AND BACKFILL  
TYPICAL DETAIL  
-NTS-



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23  
DRAWN: JLD  
CHECKED: RPK/JBK  
PROJECT: 1812.24  
DRAWING TITLE:  
SITE CROSS SECTIONS,  
TYPICAL SECTIONS

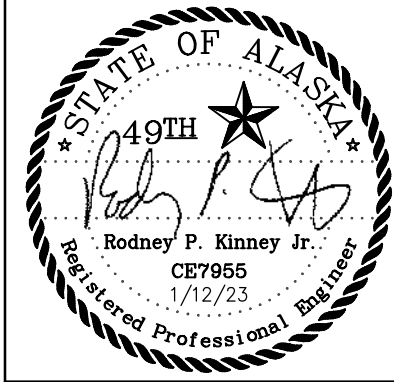
REVISIONS:

SHEET NO:  
**C303**





- MOA STAMP BLOCK -



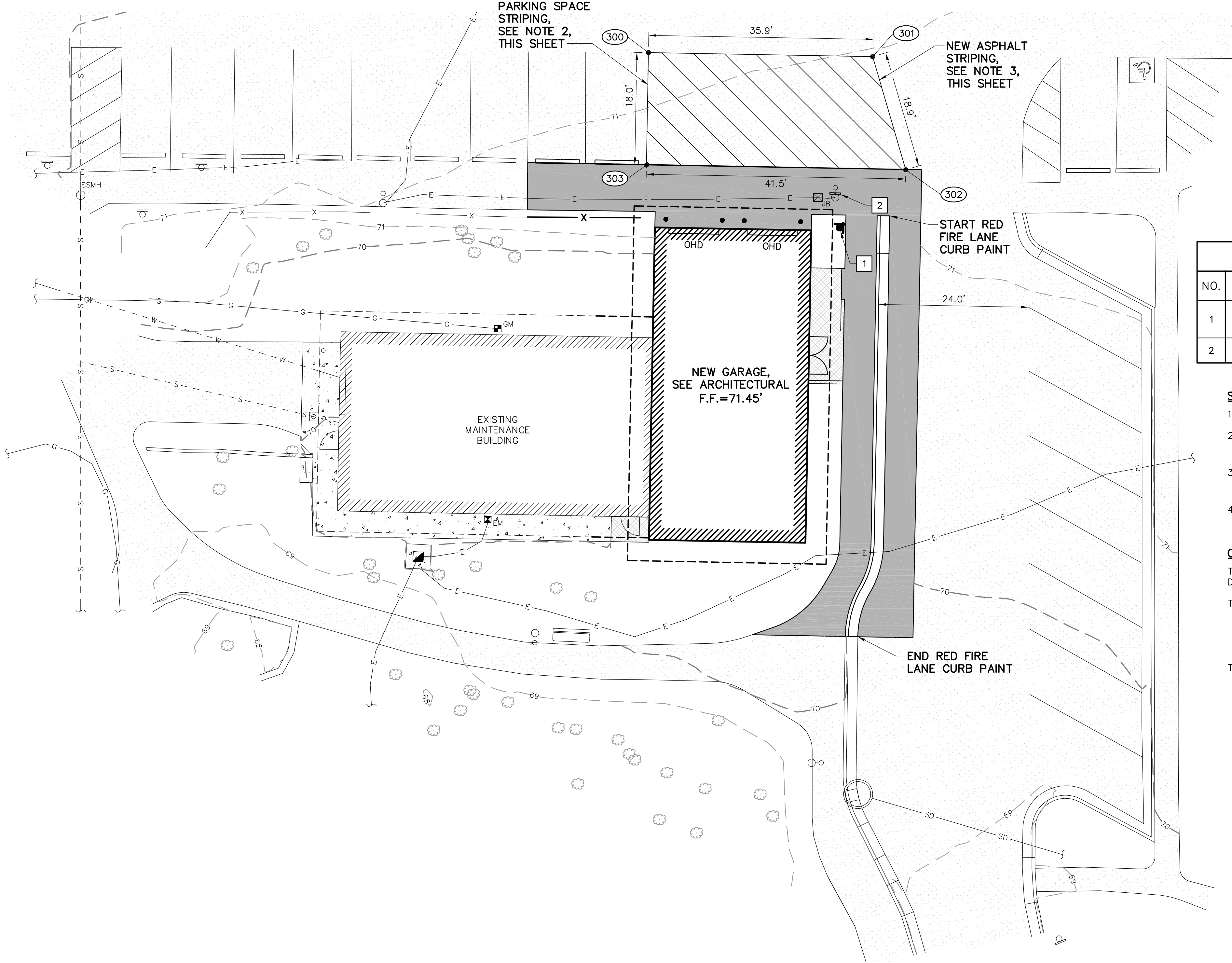
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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23  
DRAWN: JLD  
CHECKED: RPK/JBK  
PROJECT: 1812.24  
DRAWING TITLE:  
SIGNAGE AND STRIPING  
REVISIONS:

SHEET NO:  
**C304**



POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
300	4946.7486	4817.0286	STRIPING
301	4946.1051	4852.9207	STRIPING
302	4928.0075	4858.2067	STRIPING
303	4928.7515	4816.7060	STRIPING

SIGN TABLE							
NO.	DESCRIPTION	FACING	NORTHING	EASTING	TYPE	SIZE (INCHES)	NOTE
1	ONE WAY ONE WAY	N E	4918.6937	4847.6011	R6-2S R6-1L	- -	REINSTALL SALVAGED SIGNS, INSTALL NEW POST MOUNT
2	NO PARKING	N	MOUNT ON LIGHT POLE		R7P-101	12x18	MOUNT ON LIGHT POLE (7' HEIGHT)

**SIGNAGE AND STRIPING NOTES:**

1. APPLY NEW STRIPING AS SHOWN IN ACCORDANCE WITH MASS SECTION 70.10.
2. ALL NEW STANDARD PARKING SPACES SHALL BE 9' WIDE AND 20' LONG, UNLESS OTHERWISE SHOWN. ALL PARKING STALL PAVEMENT MARKINGS SHALL BE 4" PAINTED WHITE LINES.
3. ASPHALT MARKING SHALL BE 4" WIDE PAINTED WHITE LINES. DIAGONAL STRIPING SHALL BE SPACED AT 24" ON CENTER AND AT A 45 DEGREE ANGLE TO THE DIRECTION OF TRAVEL.
4. INSTALL NEW SIGNS, POSTS, AND FOUNDATIONS PER MASS DETAIL 70-25 AND 70-31 (MASS 70.11).

**OFF-STREET PARKING**

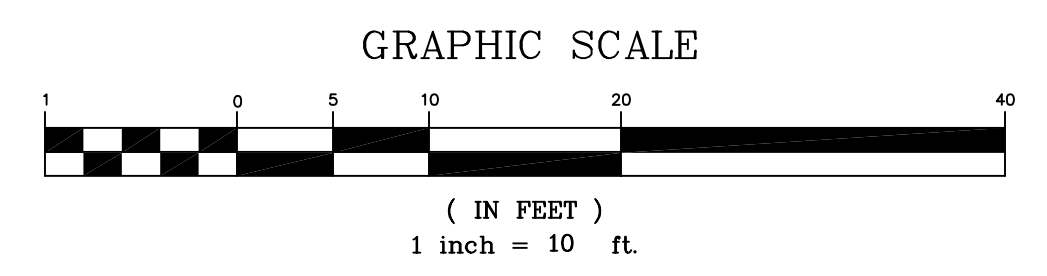
THE TOTAL NUMBER OF PARKING SPACES WAS DETERMINED BY SITE VISIT AND AERIAL PHOTOGRAPHY DATED SEPTEMBER, 2020.

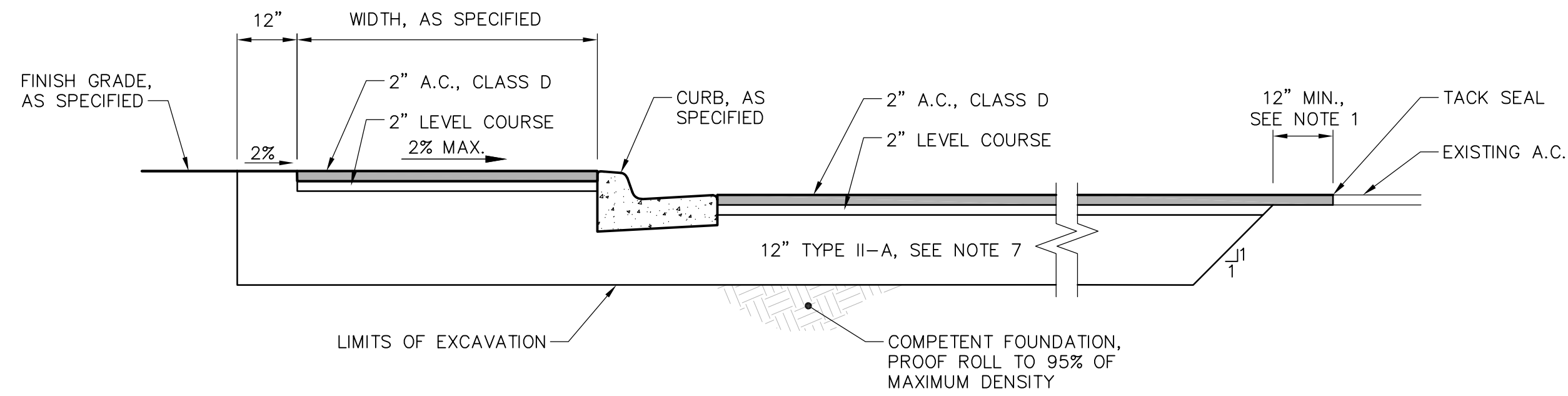
THE EXISTING AVAILABLE PARKING INCLUDES:

STANDARD PARKING SPACES	149 SPACES
ACCESSIBLE PARKING SPACES	22 SPACES (5 VAN-ACCESSIBLE)
TOTAL PARKING SPACES	171 SPACES

THE PROPOSED AVAILABLE PARKING INCLUDES:

STANDARD PARKING SPACES	147 SPACES
ACCESSIBLE PARKING SPACES	21 SPACES (5 VAN-ACCESSIBLE)
TOTAL PARKING SPACES	168 SPACES

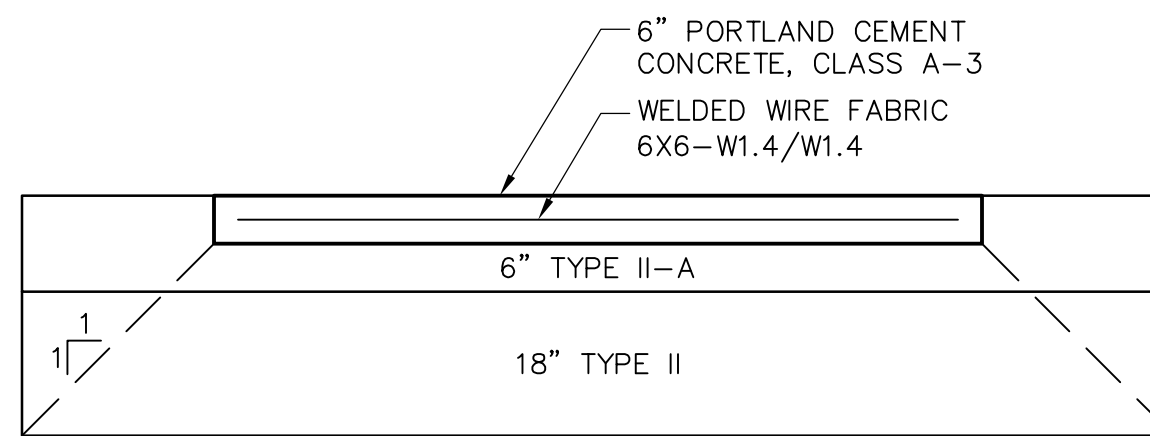
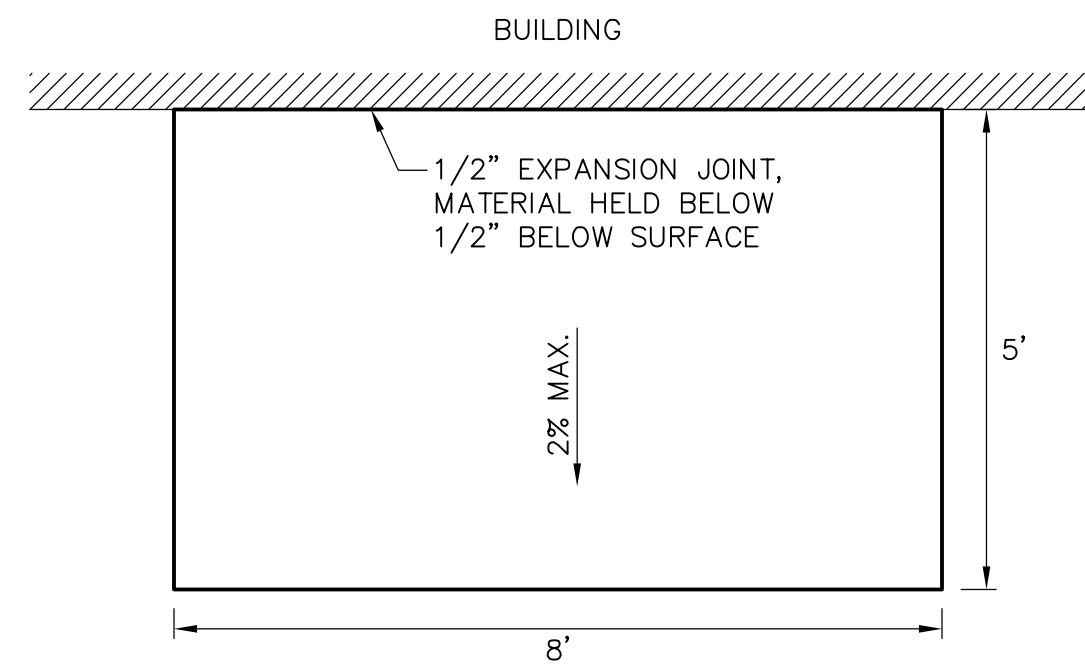




**NOTES:**

1. AFTER BACKFILL HAS BEEN COMPACTED, AN ADDITIONAL 12" OF A.C. WILL BE REMOVED (IN ADDITION TO THAT SHOWN ON DEMOLITION SHEET C201) FROM EDGE OF ORIGINAL CUT. THE OWNER MAY REQUIRE MORE THAN 12" ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS OR IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL. CUTS SHALL BE MADE WITH SAW.
2. EXCAVATE AND DISPOSE OF ALL MATERIAL NECESSARY TO PLACE CLASSIFIED MATERIALS.
3. ALL CLASSIFIED MATERIAL SHALL BE COMPACTED TO 95% (MIN.) OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. PREPARE THE EXCAVATED, EXPOSED SUBGRADE BY SCARIFYING AND PROOF COMPACT TO A MINIMUM 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180.
5. NO UNCLASSIFIED FILL, ORGANICS, FROZEN MATERIAL, OR OTHER DELETERIOUS SUBSTANCES ARE PERMITTED IN THE SUBGRADE MATERIAL.
6. CONTRACTOR IS TO REMOVE AND DISPOSED OF EXCAVATED MATERIAL.
7. DEPTH OF EXISTING SUBBASE SHOWN IS ASSUMED FOR BIDDING. EXISTING DEPTH IS UNKNOWN. CONTRACTOR SHALL VERIFY DEPTH OF EXISTING CLASSIFIED MATERIAL DURING CONSTRUCTION. OBTAIN OWNER'S APPROVAL PRIOR TO PROVIDING ADDITIONAL EXCAVATION AND BACKFILL. MATCH CURRENT CONDITIONS UNDER NEW A.C., CURB & GUTTER, AND SIDEWALK.

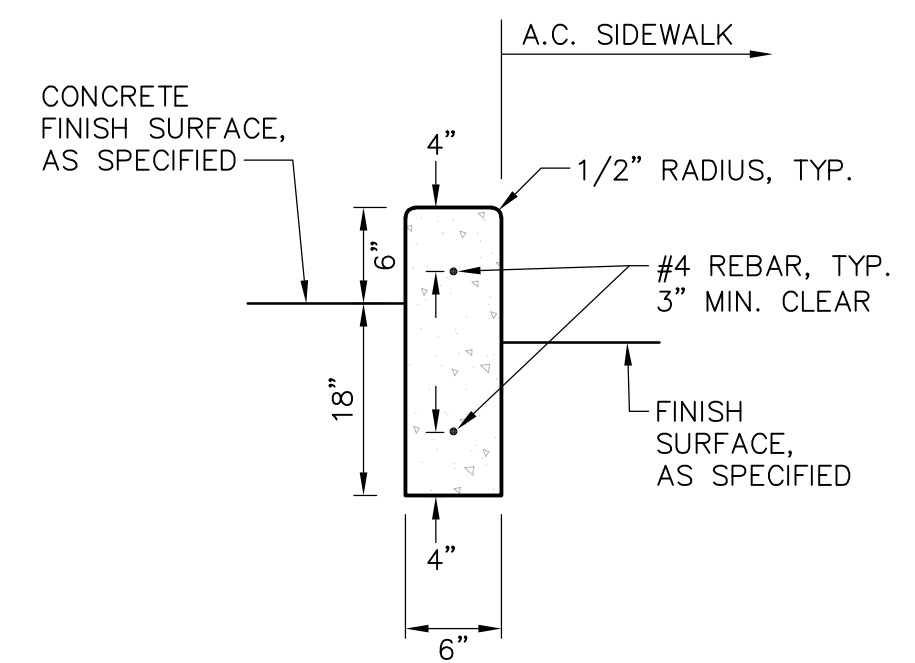
1 TYPICAL SECTION -NTS- C401



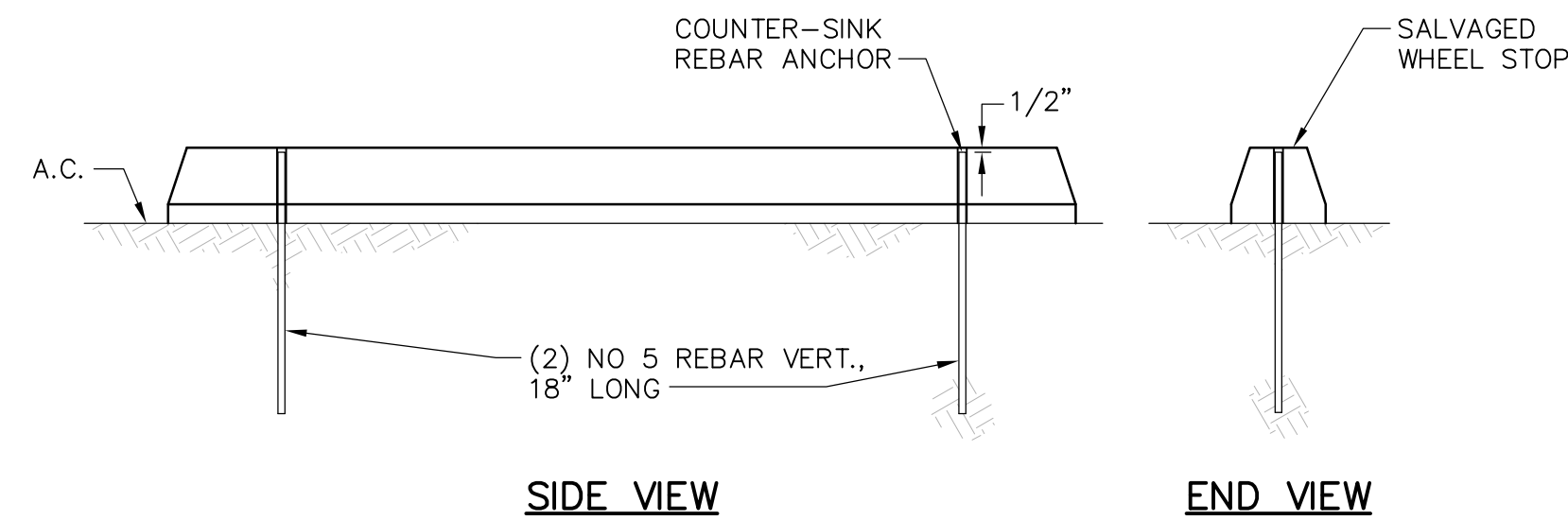
**NOTES:**

1. SEALANT TO MATCH COLOR OF CONCRETE
2. CONTRACTOR TO PROVIDE EXPANSION JOINTS WHEREVER SIDEWALKS OR SLAB ON GRADES ABUT FOUNDATIONS, CURB, RETAINING WALLS, PILLARS, ETC.

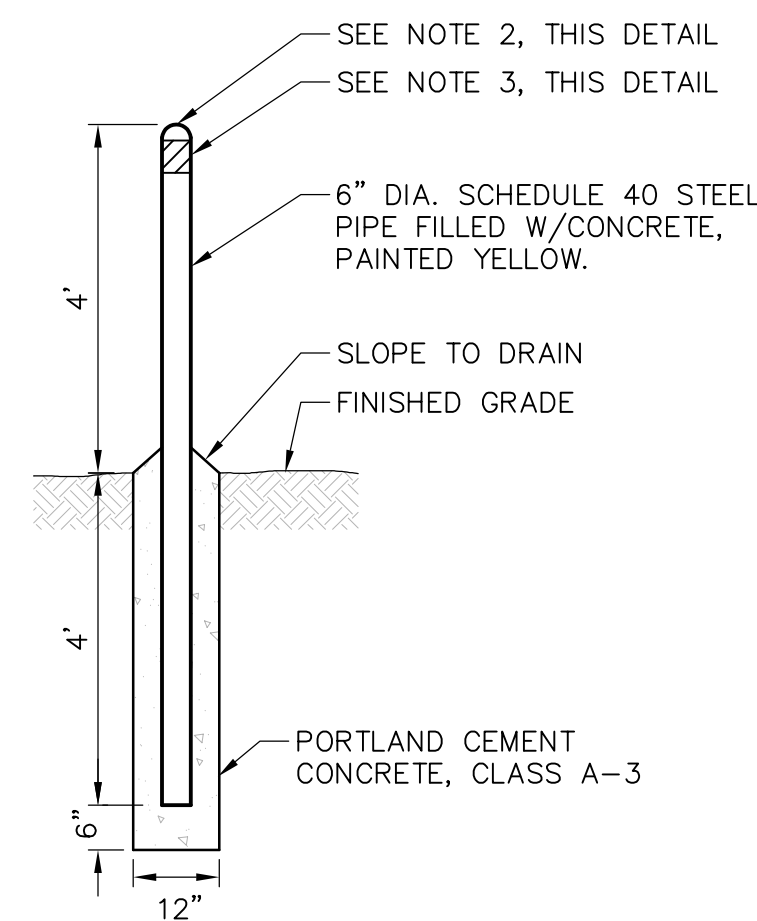
2 CONCRETE STOOP -NTS- C401



3 EDGE PROTECTION -NTS- C401



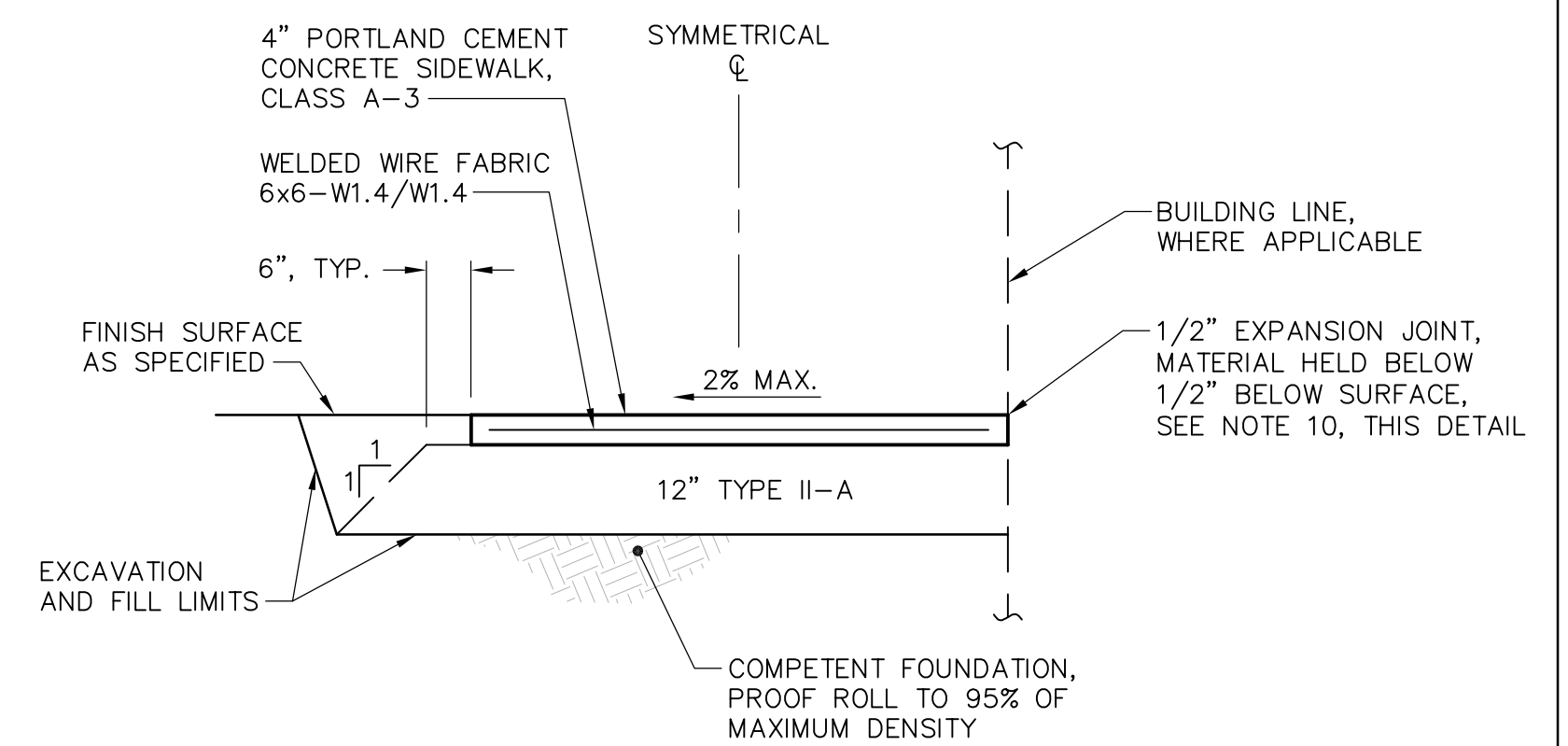
4 SALVAGED WHEEL STOP DETAIL -NTS- C401



**NOTES:**

1. PROVIDE 6" STEEL, SCHEDULE #40 PIPE, FILLED WITH CONCRETE.
2. ROUND CONCRETE AT TOP OF POST SMOOTH AND PAINT YELLOW.
3. INSTALL ONE 4" BAND OF WHITE REFLECTIVE TAPE AS SHOWN.
4. LOCATION AND QUANTITY OF POSTS AS INDICATED ON DRAWINGS, SEE SHEETS C301 AND C302.

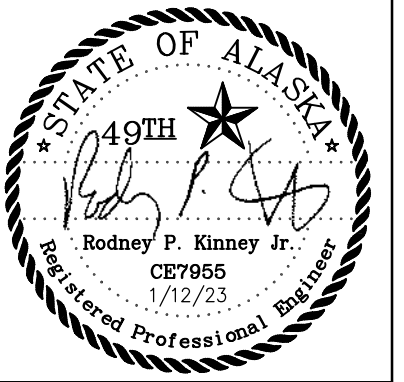
5 GUARD POSTS -NTS- C401



**NOTES:**

1. EXCAVATE AND DISPOSE OF ALL MATERIAL NECESSARY TO PLACE CLASSIFIED MATERIAL THICKNESS AS SPECIFIED.
2. ALL CLASSIFIED MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY DETERMINED BY AASHTO T-180.
3. CONCRETE SIDEWALKS SHALL HAVE BROOMED FINISH.
4. CONTRACTOR SHALL NOT EXCAVATE BELOW FOUNDATION FOOTING WHERE SIDEWALKS ARE ADJACENT TO EXISTING BUILDINGS OR OTHER EXISTING/NEW STRUCTURES.
5. CLEAR COVER OF REINFORCEMENT SHALL BE 2", EXCEPT WHERE NOTED.
6. PREPARE THE EXCAVATED, EXPOSED SUBGRADE BY SCARIFYING AND PROOF COMPACT TO A MINIMUM 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180.
7. NO UNCLASSIFIED FILL, ORGANICS, FROZEN MATERIAL, OR OTHER DELETERIOUS SUBSTANCES ARE PERMITTED IN THE SUBGRADE MATERIAL.
8. CONTRACTOR IS TO REMOVE AND DISPOSE OF EXCAVATED MATERIAL.
9. SEALANT TO MATCH COLOR OF CONCRETE
10. CONTRACTOR TO PROVIDE EXPANSION JOINTS WHEREVER SIDEWALKS OR SLAB ON GRADES ABUT FOUNDATIONS, CURB, RETAINING WALLS, PILLARS, ETC.

6 TYPICAL SIDEWALK SECTION -NTS- C401



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	JLD
CHECKED:	RPK/JBK
PROJECT:	1812.24
DRAWING TITLE:	DETAILS
REVISIONS:	
SHEET NO:	<b>C401</b>

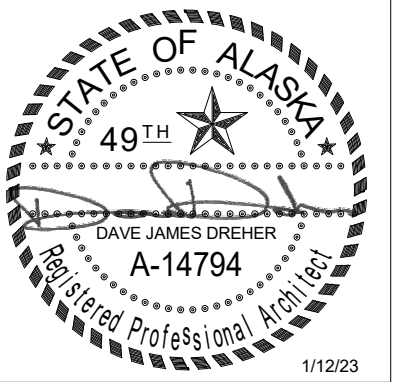
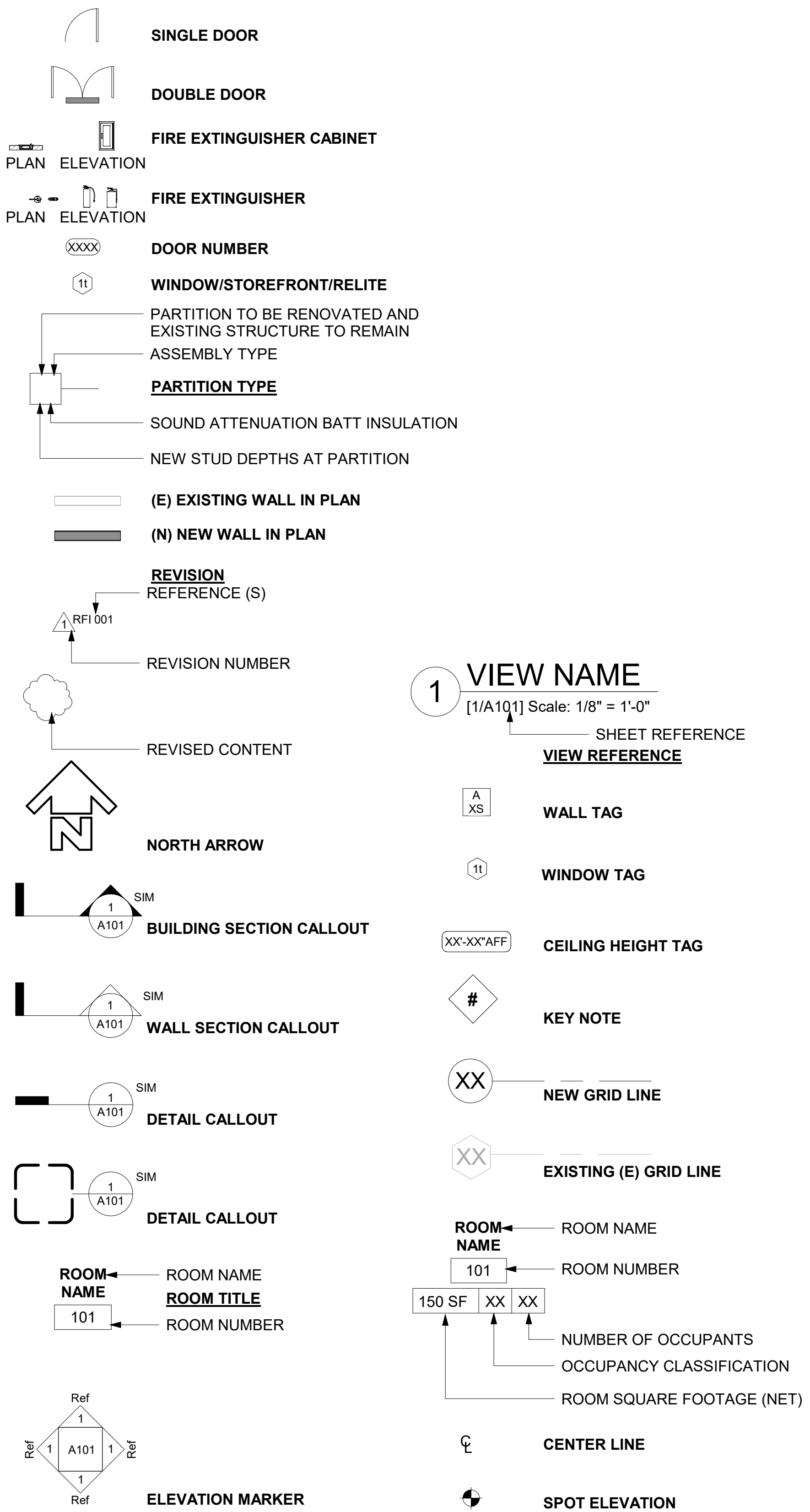


# ABBREVIATIONS

#	POUND OR NUMBER	FEC	FIRE EXTINGUISHER CABINET
&	AND	FF	FINISH FLOOR
(E)	EXISTING	FFE	FIXTURES, FURNITURE, EQUIPMENT
(N)	NEW	FHC	FIRE HOUSE CABINET
(R)	RENOVATE	FIN	FINISH
@	AT	FL	FLOOR
A/E	ARCHITECT/ ENGINEER	FO	FRAME OPENING
AB	ANCHOR BOLT	FOC	FACE OF CONCRETE
ACP	ACOUSTICAL CEILING PANEL	FOF	FACE OF FINISH
ACT	ACOUSTICAL CEILING TILE	FOS	FACE OF STUD
ADA	AMERICANS WITH DISABILITIES ACT	FOT	FUEL OIL TANK
ADD	ADDITIVE	FP	FILLER PANEL
ADD'L	ADDITIONAL	FRP	FIBERGLASS REINFORCED PANEL
ADH	ADHESIVE	FRT	FIRE RETARDANT TREATED
ADJ	ADJUSTABLE	FS	FILLER STRIP
AFF	ABOVE FINISH FLOOR	FT	FEET
AIB	AIR INFILTRATION BARRIER	FURN	FURNACE
ALUM	ALUMINUM	FV	FIELD VERIFY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GA	GAUGE
AP	ACCESS PANEL	GALV	GALVANIZED
APPROX	APPROXIMATE	GB	GRAB BAR
ARCH	ARCHITECTURAL	GC	GENERAL CONTRACTOR
AWC	ACOUSTICAL WALL PANEL	GL	GLASS
B	BENCH	GLB/GLBM	GLULAM BEAM
BD	BOARD	GWB	GYSUM WALL BOARD
BIM	BUILDING INFORMATION MODELING	HCP	HANDICAP ACCESSIBLE
BLDG	BUILDING	HDWR	HARDWARE
BLK	BLOCK OR BLOCKING	HDWRGRP	HARDWARE GROUP
BM	BEAM	HM	HOLLOW METAL
BO	BOTTOM OF	HORIZ	HORIZONTAL
CAB	CABINET	HT	HEIGHT
CALC	CALCULATION	HVAC	HEATING VENTILATING, AND AIR CONDITIONING
CB	CATCH BASIN	HWH	HOT WATER HEATER
CEM	CEMENT	IBC	INTERNATIONAL BUILDING CODE
CER	CERAMIC	IMP	INSULATED METAL PANEL
CG	CORNER GUARD	INSUL	INSULATION
CH	COAT HOOK	INT	INTERIOR
CJ	CONTROL JOINT	IRP	IMPACT RESISTANT PANEL
CL	CENTER LINE	JAN	JANITOR
CLG	CEILING	JNT	JOINT
CLO	CLOSET	KD	KNOCK DOWN
CLR	CLEAR	L	ANGLE
CMU	CONCRETE MASONRY UNIT	LAV	LAVATORY
COL	COLUMN	LOP	LAYOUT POINT
CONC	CONCRETE	LVL	LEVEL
CONST	CONSTRUCTION	MAT	MATERIAL
CONT	CONTINUOUS	MAX	MAXIMUM
CORR	CORRIDOR	MB	MARKER BOARD
CPT	CARPET	MECH	MECHANICAL
CT	CERAMIC TILE	MEZZ	MEZZANINE
CTOP	COUNTER TOP	MFD	MANUFACTURED
CW	CURTAIN WALL	MFR	MANUFACTURER
D	DRYER	MH	MANHOLE
DBLS	DOUBLE SIDED	MI	MIRROR
DEG	DEGREE	MIN	MINIMUM
DEMO	DEMOLITION	MISC	MISCELLANEOUS
DF	DRINKING FOUNTAIN	MJ	MOVEMENT JOINT
DIA	DIAMETER	ML	METAL LOCKER
DIM	DIMENSION	MR	MOP RACK
DISP	DISPENSER	MRP	METAL ROOF PANEL
DN	DOWN	MS	METAL SHELVES
DO	DOOR OPENING	MTD	MOUNTED
DS	DOWN SPOUT	MTL	METAL
DTL	DETAIL	MWP	METAL WALL PANEL
DW	DISH WASHER	N	NORTH
DWG	DRAWING	NFS	NON-FROST SUSCEPTIBLE
EA	EACH	NIC	NOT IN CONTRACT
EIFS	EXTERIOR INSULATED FINISH SYSTEM	NO	NUMBER
EJ	EXPANSION JOINT	NOM	NOMINAL
EL	ELEVATION	NTS	NOT TO SCALE
ELEC	ELECTRICAL	O	DIAMETER
EPB	ELECTRICAL PANEL BOARD	O.C.	ON CENTER
EQ	EQUAL	O/O	OUTSIDE TO OUTSIDE
EQP	EQUIPMENT	OCCS	OCCUPANTS
ETR	EXISTING TO REMAIN	OD	OVERFLOW DRAIN
EXT	EXTERIOR	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
FA	FIRE ALARM	OFOI	OWNER FURNISHED OWNER INSTALLED
FCO	FLOOR CLEAN OUT	OPH	OPPOSITE HAND
FCTY	FACTORY FINISH	OSB	ORIENTED STRAND BOARD
FD	FLOOR DRAIN	OTS	OPEN TO STRUCTURE
FDN	FOUNDATION	PL	PLASTIC LAMINATE
FE	FIRE EXTINGUISHER		

PLP	PHENOLIC LAMINATE PANEL
PLYWD	PLYWOOD
PNT	PAINT
PS	PROJECTION SCREEN
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R&C	ROD AND CURTAIN
R&S	ROD AND SHELF
RAD	RADIUS
RB	RUBBER BASE
RCF	RESILIENT COMMERCIAL FLOORING
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIDGERATOR
REINF	REINFORCED
REM	REMARK
REQ	REQUIRED/ REQUIREMENTS
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
SAFF	SELF ADHERING FLEXIBLE FLASHING
SCHED	SCHEDULE
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET/ FOOT
SHEATH	SHEATHING
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SPEC	SPECIFICATION/S
SQ	SQUARE
SRFM	SPRAYED FIRE-RESISTIVE MATERIAL
SS	SOLID SURFACE
SSTL	STAINLESS STEEL
SSWS	STAINLESS STEEL WALL SYSTEM
STG	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
T&G	TONGUE AND GROOVE
TB	TACK BOARD
TBS	TO BE SELECTED
TG	TEMPERED GLASS
TO	TOP OF
TPD	TOILET PAPER DISPENSER
TSC	TOILET SEAT COVER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VP	VINYL PLANK
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WASHER
W/	WIDTH
WAR	WASTE RECEPTACLE
WB	WEATHER BARRIER
WC	WATER CLOSET
WD	WOOD
WO	WALK OFF MATT
WR	WATER RESISTANT
WRGWB	WATER RESISTANT GYPSUM WALL BOARD
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

# ARCHITECTURAL GRAPHIC SYMBOLS

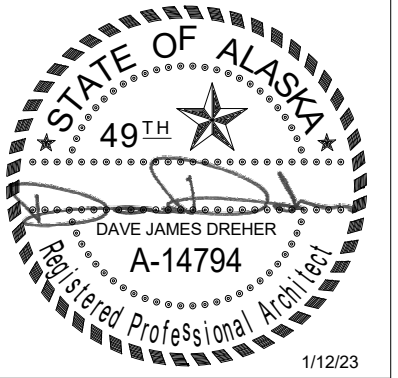


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# MUNICIPALITY OF ANCHORAGE ANCHORAGE SENIOR CENTER GARAGE ADDITION ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 ARCHITECTURAL ABBREVIATIONS & SYMBOLS  
 REVISIONS:  
 SHEET NO:

**A001**



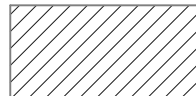
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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 FLOOR PLAN -  
 DEMOLITION  
 REVISIONS:  
 SHEET NO:

**A101**

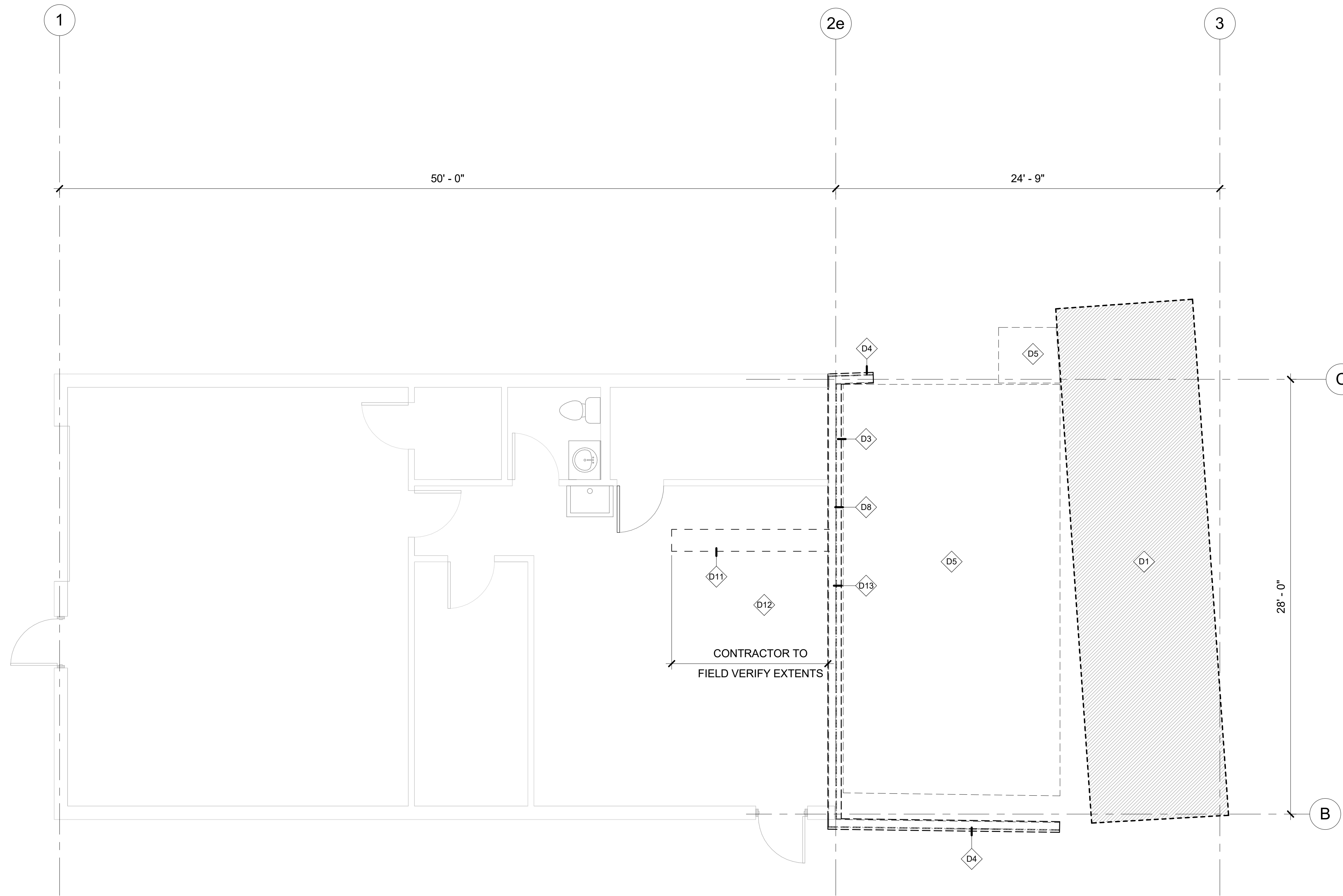
**DEMOLITION LEGEND**

 HATCH INDICATES (E) CONNEX AND FOUNDATION BELOW TO BE DEMOLISHED COMPLETE

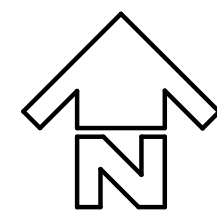
 REMOVE

**DEMOLITION KEY NOTES**

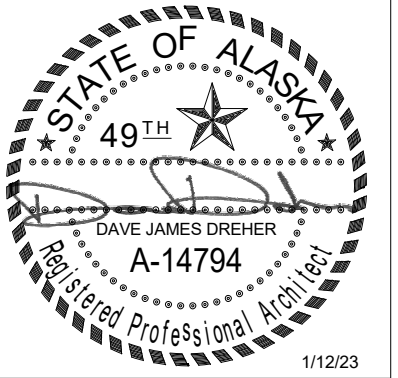
- D1 DEMOLISH (E) CONNEX - COMPLETE
- D3 DEMOLISH (E) EAVE AS REQ. FOR NEW WORK
- D4 DEMOLISH (E) WALL - COMPLETE
- D5 DEMOLISH (E) CONCRETE FOUNDATION AND SLAB AS REQ. FOR NEW WORK
- D8 DEMOLISH (E) EXTERIOR BRICK WALL AS REQ. FOR NEW WORK
- D11 DEMOLISH (E) CONCRETE PAD AS REQ. FOR NEW WASTELINE - SEE MECHANICAL
- D12 REMOVE AND STORE (E) LIGHTING FOR REINSTALL, SEE ELECTRICAL
- D13 (E) FOOTING TO REMAIN PER STRUCTURAL



**1 FIRST FLOOR PLAN- DEMOLITION**  
 Scale: 1/4" = 1'-0"







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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23

DRAWN: DBH

CHECKED: DJD

PROJECT: 1718.68

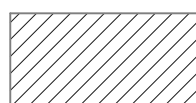
DRAWING TITLE:  
ROOF PLAN -  
DEMOLITION


REVISIONS:

SHEET NO:

**A102**

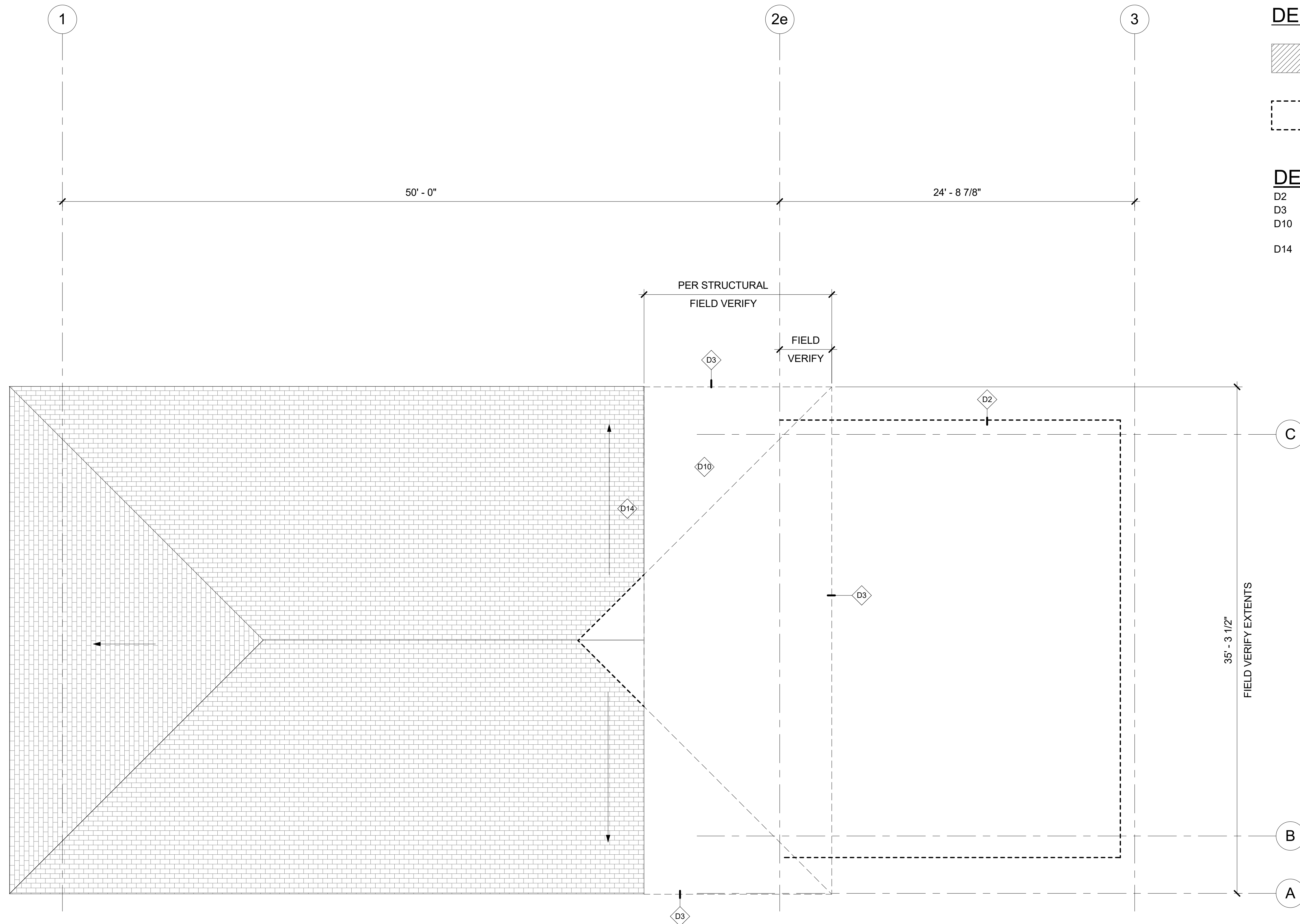
### DEMOLITION LEGEND

 HATCH INDICATES (E) CONNEX AND FOUNDATION BELOW TO BE DEMOLISHED COMPLETE

 REMOVE

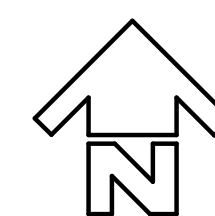
### DEMOLITION KEY NOTES

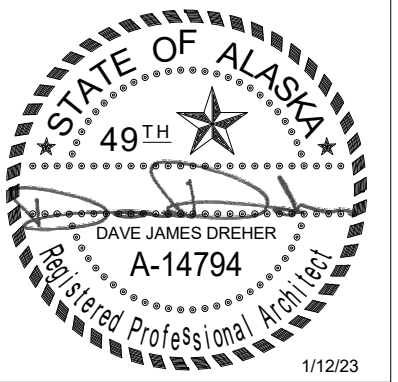
- D2 DEMOLISH (E) SHED ROOF - COMPLETE
- D3 DEMOLISH (E) EAVE AS REQ. FOR NEW WORK
- D10 DEMOLISH (E) TRUSS AND ROOF AS REQ. FOR NEW WORK - CONTRACTOR TO FIELD VERIFY EXTENTS
- D14 DEMOLISH (E) SHINGLES AS REQUIRED FOR NEW ROOF WORK



## 1 ROOF PLAN- DEMOLITION

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





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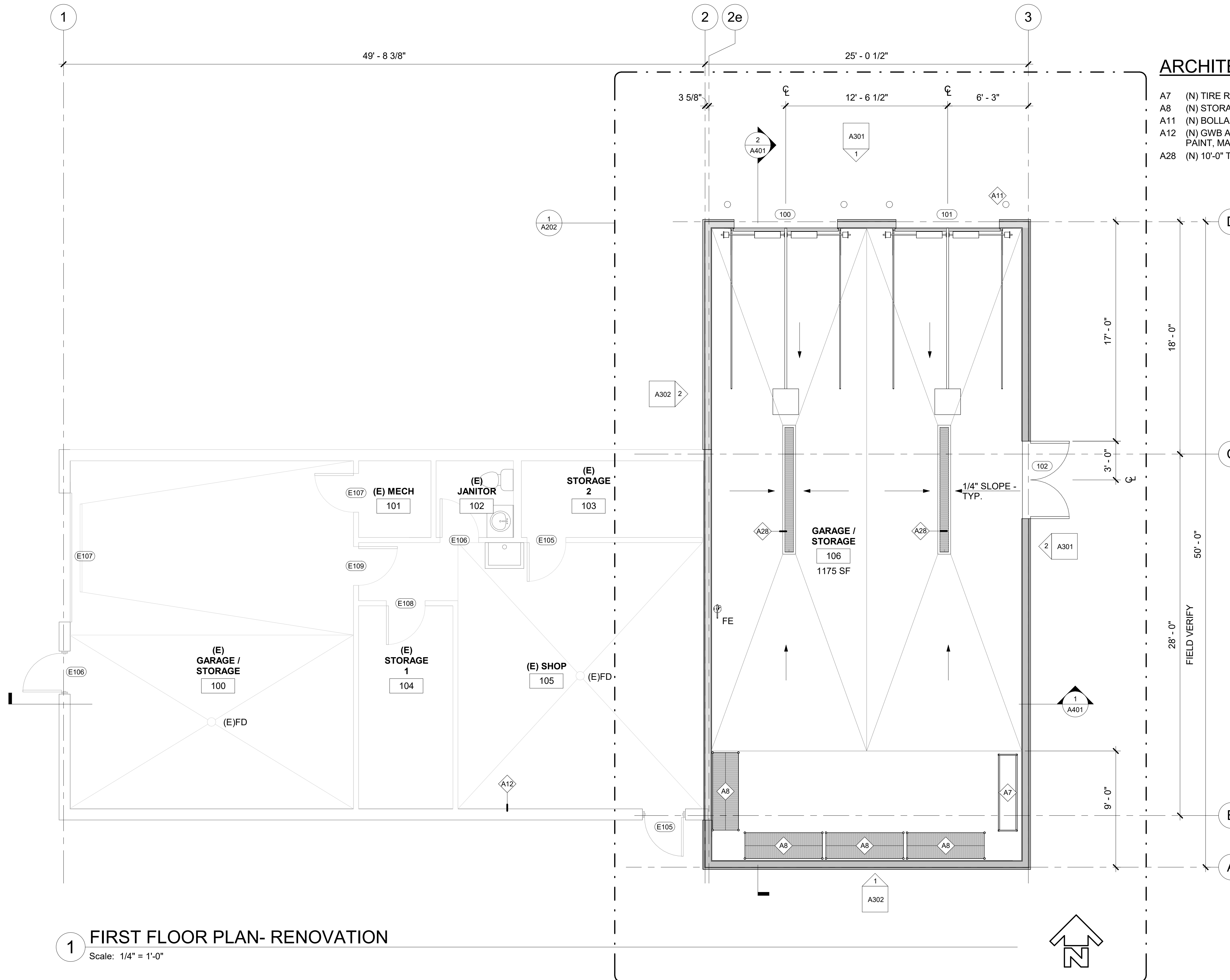
MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 FLOOR PLAN -  
 RENOVATION  
 REVISIONS:

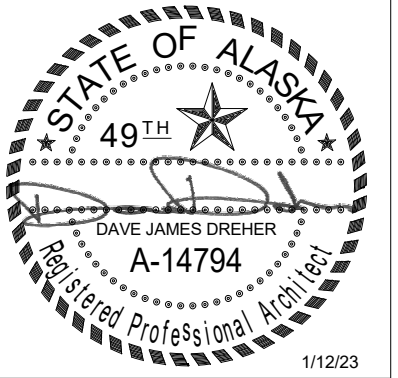
SHEET NO:  
**A201**

**ARCHITECTURAL KEY NOTES**

- A7 (N) TIRE RACK - OFOI
- A8 (N) STORAGE SHELVING - OFOI
- A11 (N) BOLLARDS PER CIVIL
- A12 (N) GWB AS REQUIRED FOR NEW WORK, PATCH REPAIR AND PAINT, MATCH ADJACENT EXISTING FINISHES
- A28 (N) 10'-0" TRENCH DRAIN CATCH BASIN W/ TYPE A GRATE



**1 FIRST FLOOR PLAN- RENOVATION**  
 Scale: 1/4" = 1'-0"



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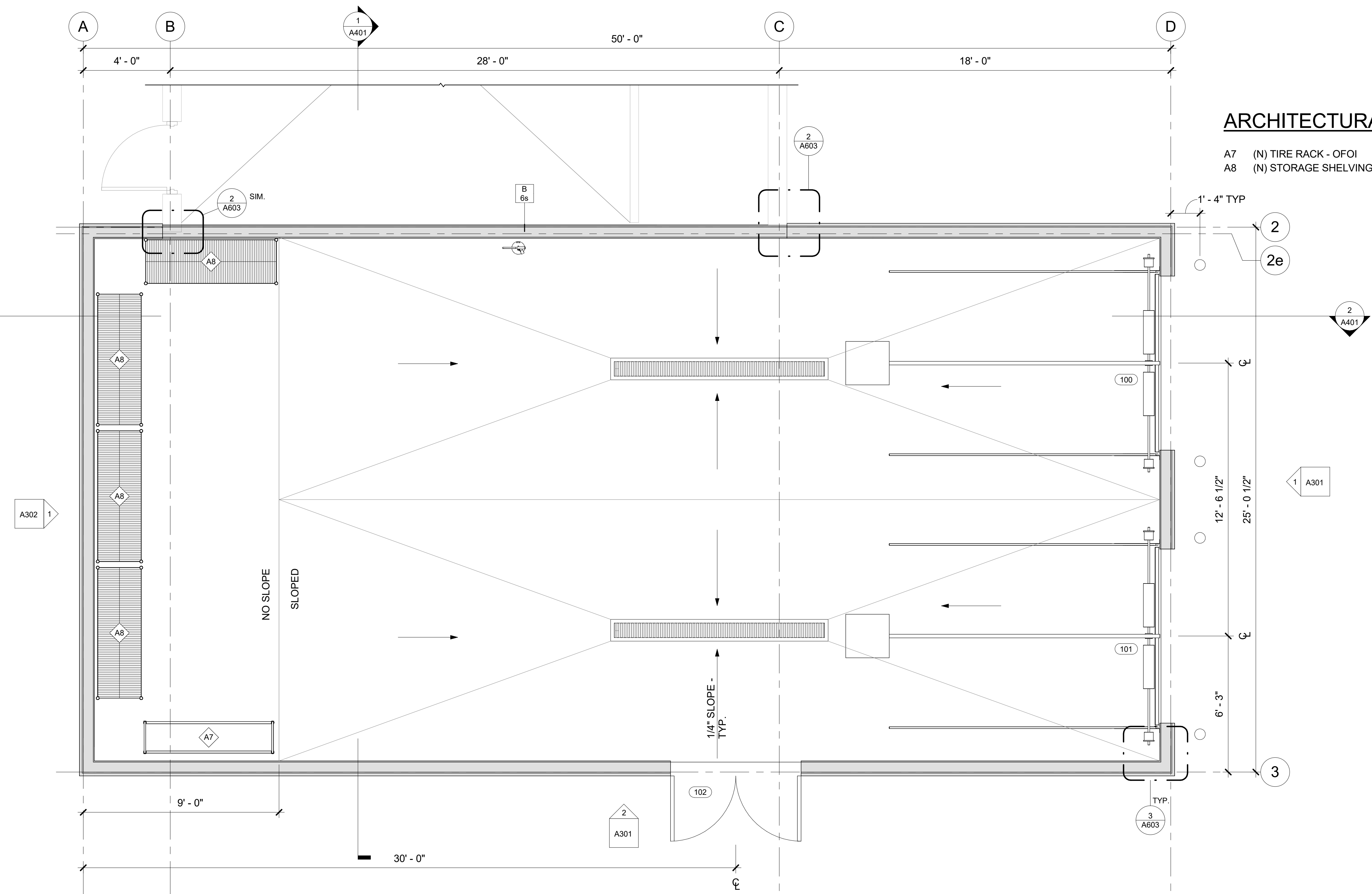
MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 ENLARGED PLANS  
 REVISIONS:  
 SHEET NO:

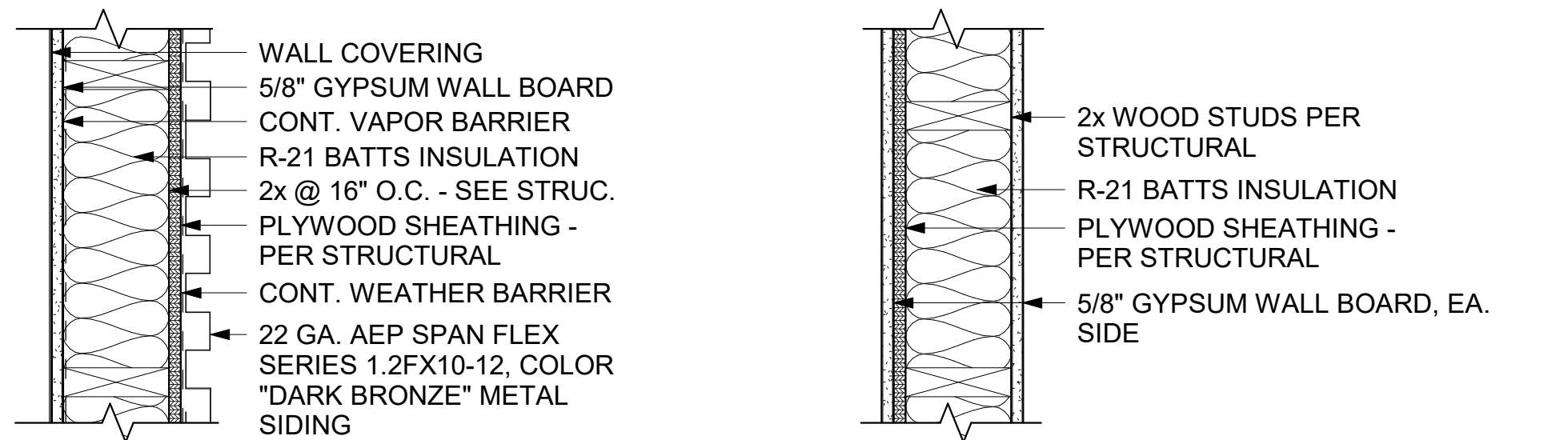
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**ARCHITECTURAL KEY NOTES**

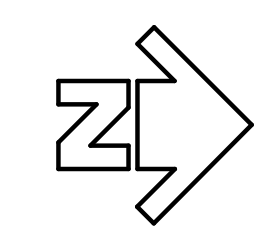
- A7 (N) TIRE RACK - OFOI
- A8 (N) STORAGE SHELVING - OFOI



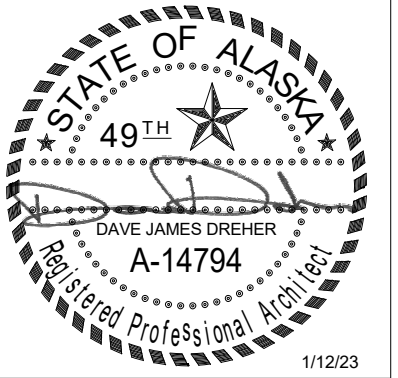
**1 ENLARGED PARTITION PLAN**  
 [1/A201] Scale: 3/8" = 1'-0"



**PARTITION WALL TYPES**





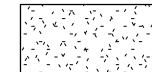
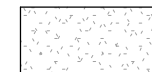



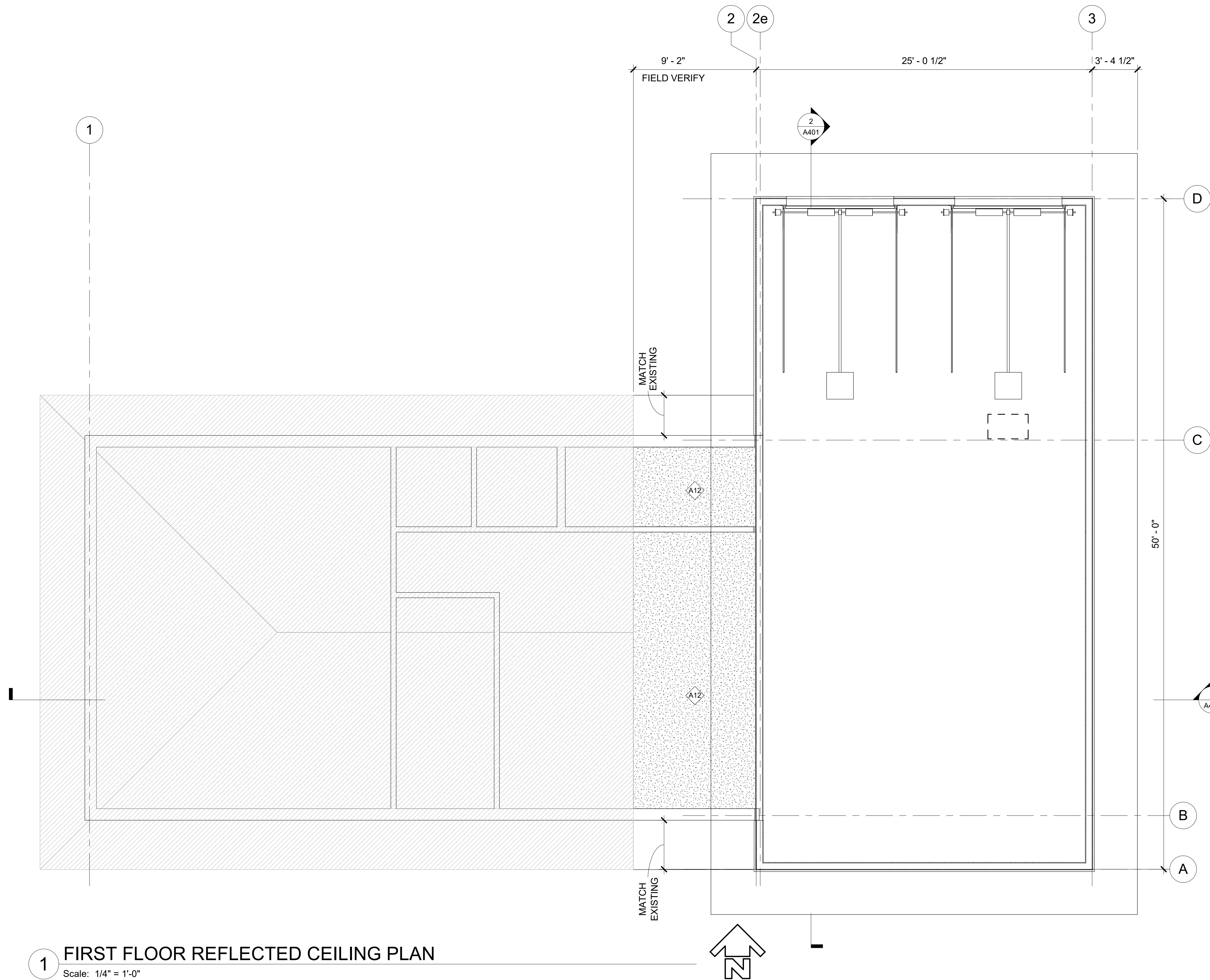
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**ARCHITECTURAL KEY NOTES**

A12 (N) GWB AS REQUIRED FOR NEW WORK, PATCH REPAIR AND PAINT, MATCH ADJACENT EXISTING FINISHES

**REFLECTED CEILING LEGEND**

-  GYPSUM CEILING
-  (E) GYPSUM CEILING TO REMAIN. PATCH AND REPAIR WHERE ADJACENT NEW WORK OCCURS.
-  NO WORK THIS AREA



**1 FIRST FLOOR REFLECTED CEILING PLAN**  
 Scale: 1/4" = 1'-0"

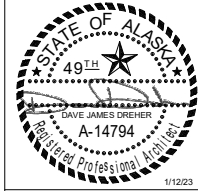
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**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 REFLECTED CEILING  
 PLAN

REVISIONS:

SHEET NO:

**A203**



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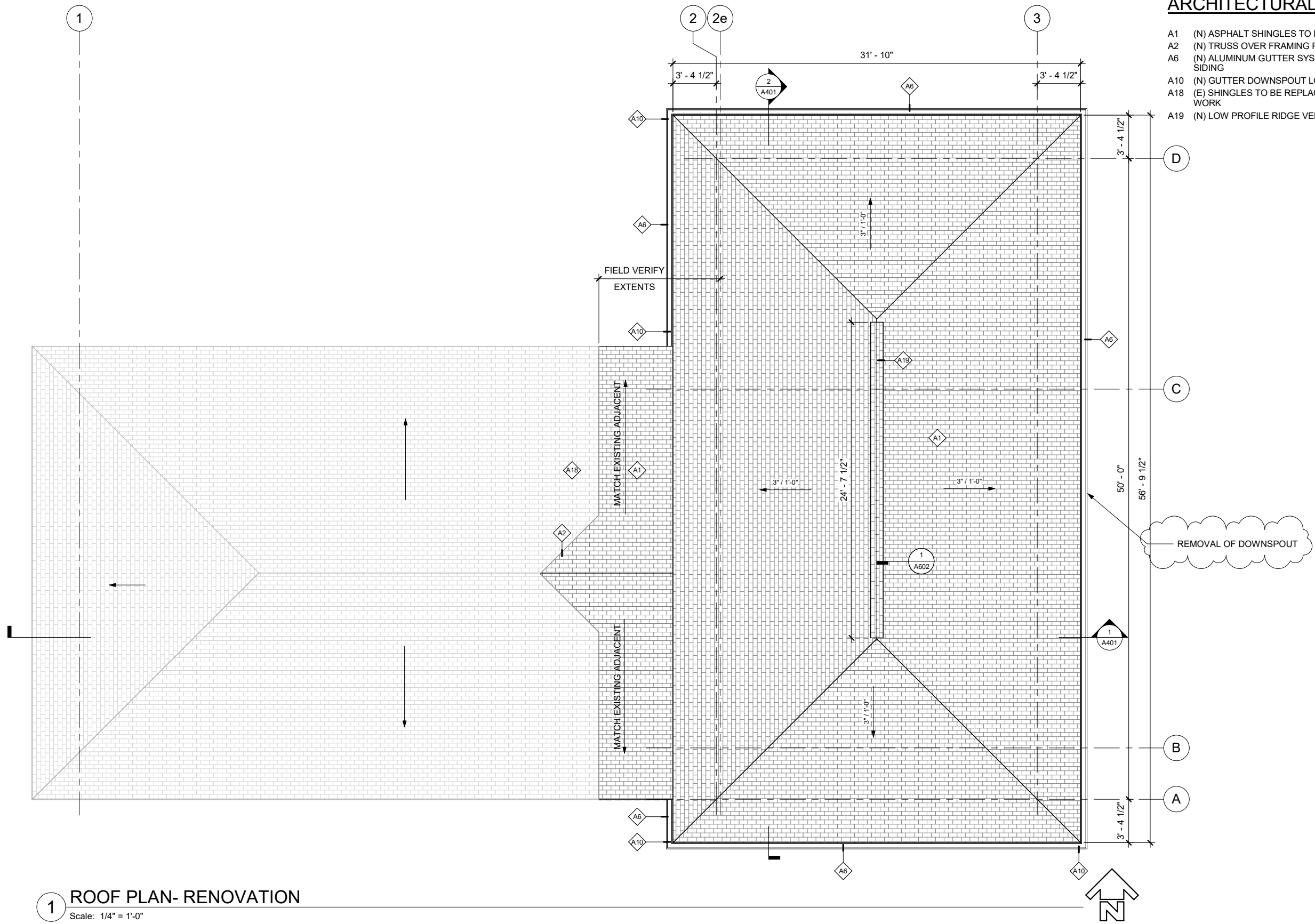
MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 ROOF PLAN -  
 RENOVATION  
 REVISIONS:  
 1 PERMIT 2/28/23  
 REVIEW

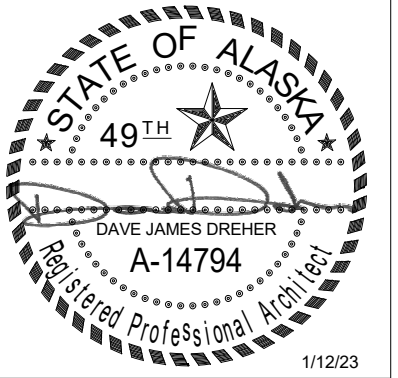
SHEET NO:  
**A204**

**ARCHITECTURAL KEY NOTES**

- A1 (N) ASPHALT SHINGLES TO MATCH ADJACENT EXISTING
- A2 (N) TRUSS OVER FRAMING PER STRUCTURAL
- A6 (N) ALUMINUM GUTTER SYSTEM - COLOR MATCH METAL SIDING
- A10 (N) GUTTER DOWNSPOUT LOCATION
- A18 (E) SHINGLES TO BE REPLACED AS REQUIRED FOR NEW ROOF WORK
- A19 (N) LOW PROFILE RIDGE VENT

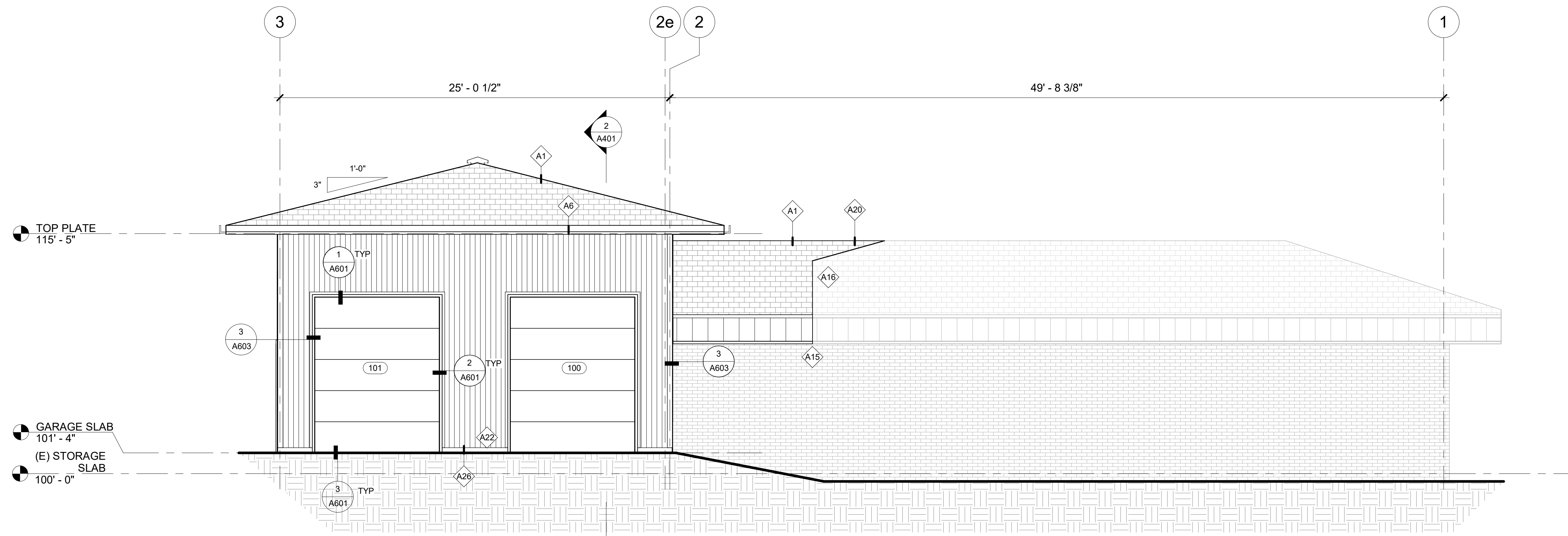


**1 ROOF PLAN- RENOVATION**  
 Scale: 1/4" = 1'-0"



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MUNICIPALITY OF ANCHORAGE  
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 GARAGE ADDITION**  
 ANCHORAGE, ALASKA



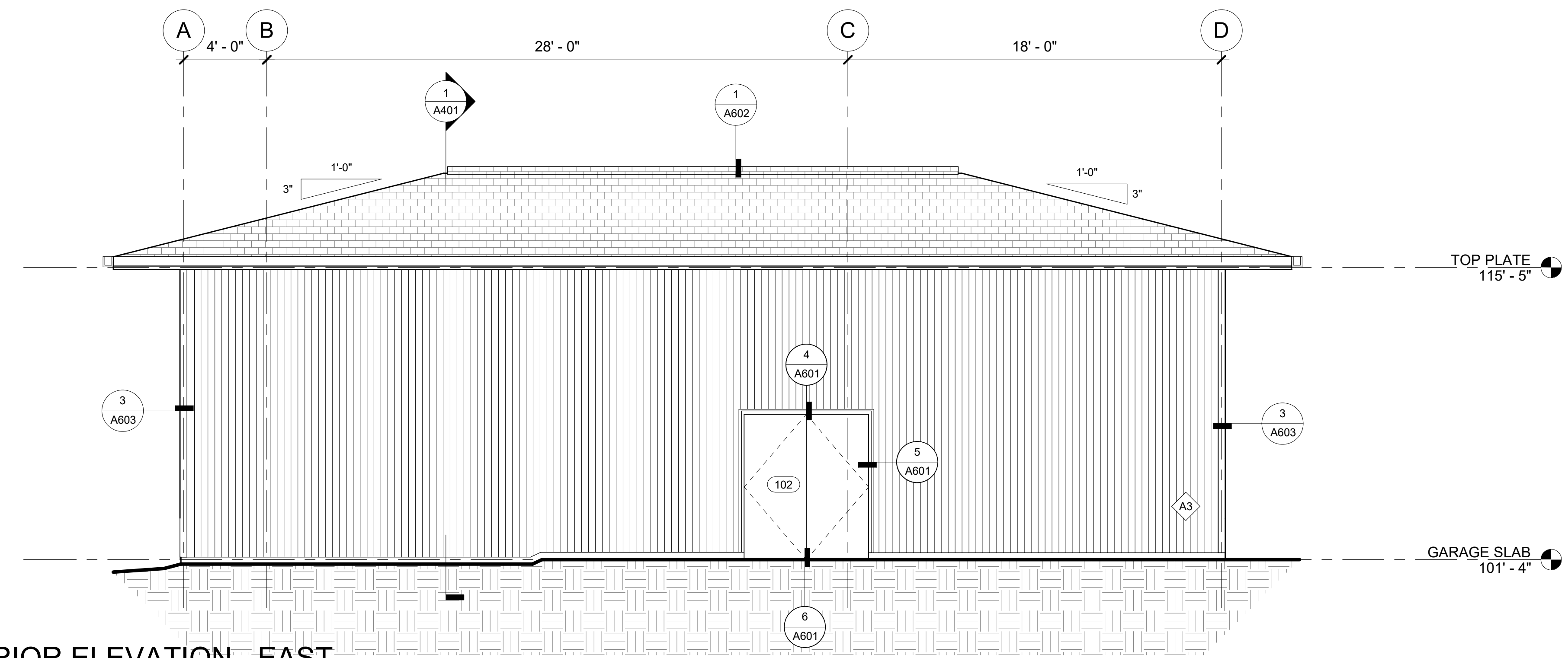
**1 EXTERIOR ELEVATION - NORTH**  
 [1/A201] Scale: 1/4" = 1'-0"

**ARCHITECTURAL KEY NOTES**

- A1 (N) ASPHALT SHINGLES TO MATCH ADJACENT EXISTING
- A3 (N) BRICK WAINSCOT TO MATCH ADJACENT EXISTING BRICK FACADE
- A6 (N) ALUMINUM GUTTER SYSTEM - COLOR MATCH METAL SIDING
- A15 ALIGN, CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS
- A16 PATCH EXISTING ROOFING AS REQUIRED
- A20 (N) ROOF OVER FRAMING PER STRUCTURAL
- A22 (N) BRICK VENEER TO MATCH ADJACENT EXISTING BRICK
- A26 (N) BASE FLASHING - MAINTAIN 4" REVEAL AROUND THE PERIMETER OF THE BUILDING

**REMARKS**

1. ALL TRIM AND FLASHING TO MATCH ADJACENT FINISHES, UNO.
2. PAINT ALL EXPOSED LOUVERS, HOODS, PANELS, PIPES AND CONDUITS TO MATCH ADJACENT METAL TRIM IF NOT SPECIFIED IN ELEVATIONS OR DETAILS.

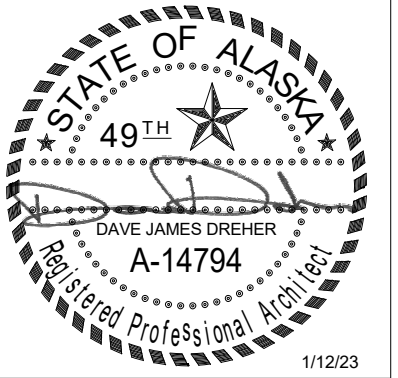


**2 EXTERIOR ELEVATION - EAST**  
 [1/A201] Scale: 1/4" = 1'-0"

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 EXTERIOR ELEVATIONS  
 REVISIONS:  
 SHEET NO:

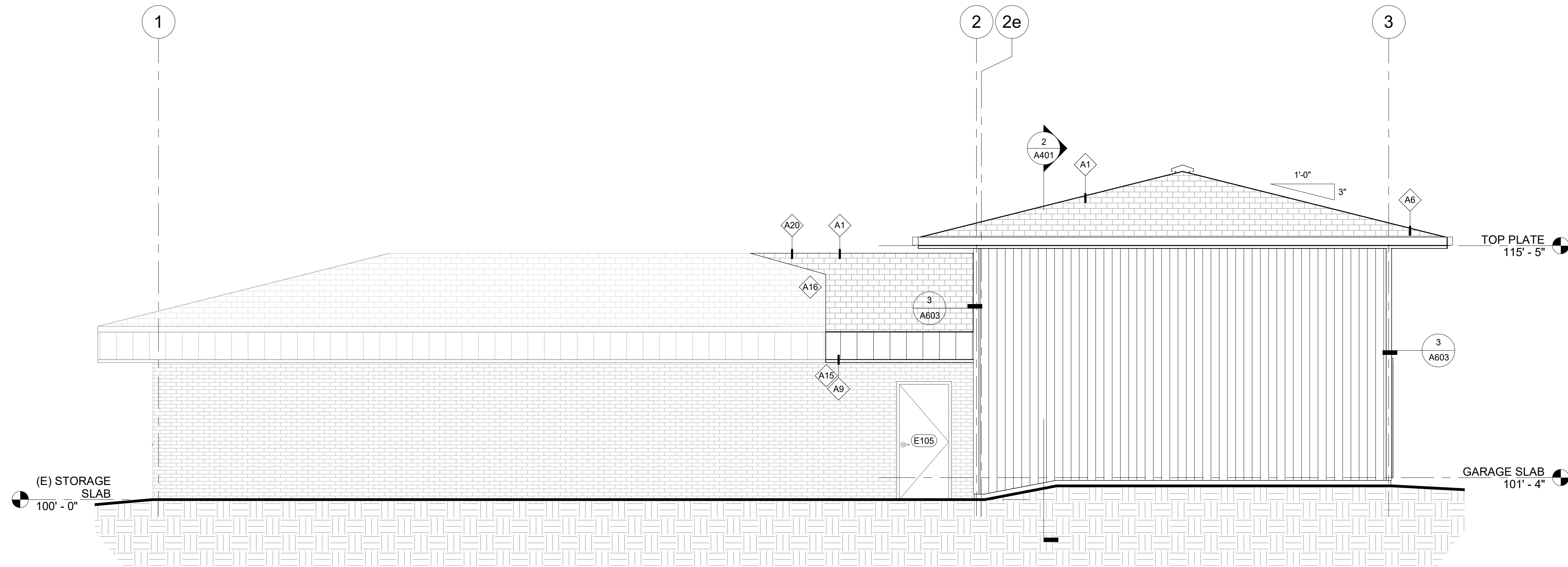
**A301**





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 GARAGE ADDITION**  
 ANCHORAGE, ALASKA



**1 EXTERIOR ELEVATION - SOUTH**  
 [1/A201] Scale: 1/4" = 1'-0"

**ARCHITECTURAL KEY NOTES**

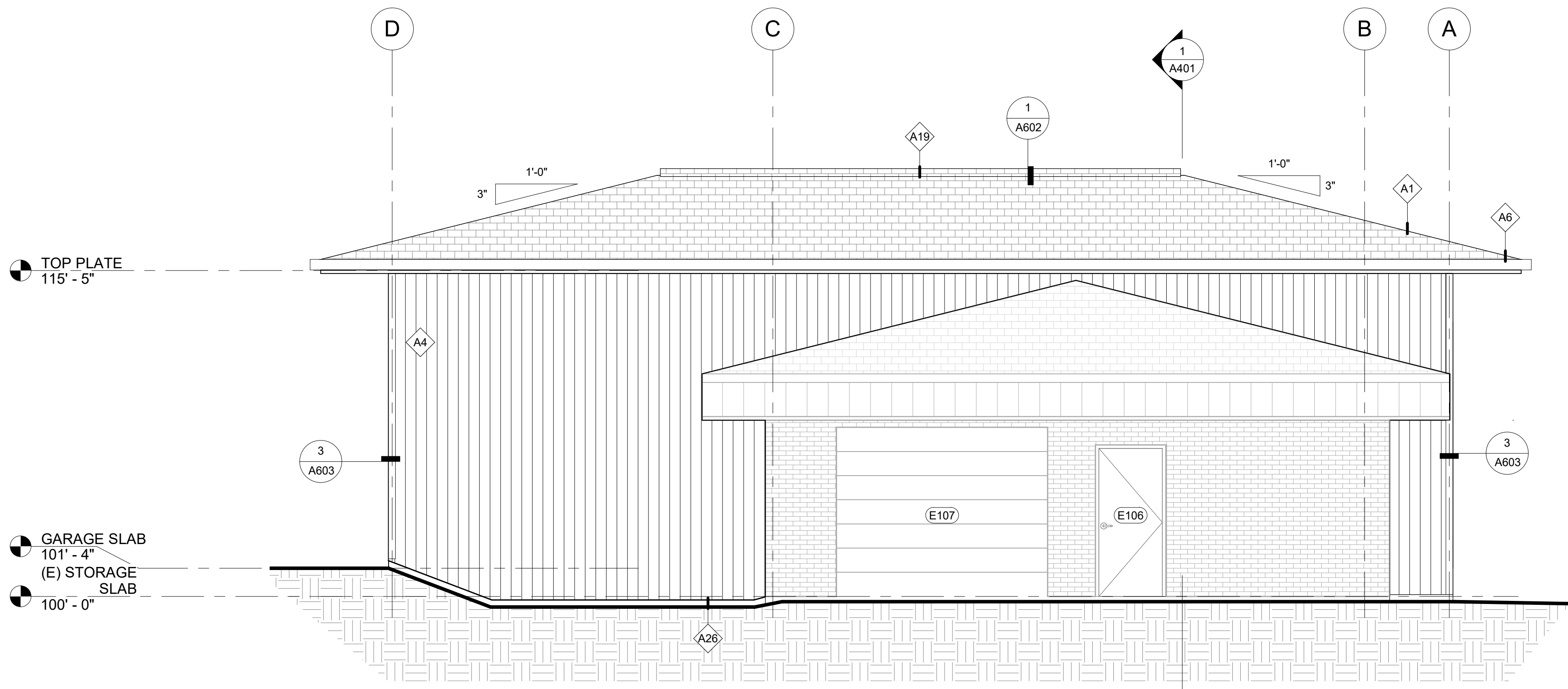
- A1 (N) ASPHALT SHINGLES TO MATCH ADJACENT EXISTING
- A4 (N) MS-1, METAL SIDING-1 - 22 GA AEP SPAN FLEX SERIES 1.2FX10-12, COLOR "DARK BRONZE"
- A6 (N) ALUMINUM GUTTER SYSTEM - COLOR MATCH METAL SIDING
- A9 (N) EAVE TO MATCH ADJACENT EXISTING STORAGE ROOF EAVE
- A15 ALIGN, CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS
- A16 PATCH EXISTING ROOFING AS REQUIRED
- A19 (N) LOW PROFILE RIDGE VENT
- A20 (N) ROOF OVER FRAMING PER STRUCTURAL
- A26 (N) BASE FLASHING - MAINTAIN 4" REVEAL AROUND THE PERIMETER OF THE BUILDING

**REMARKS**

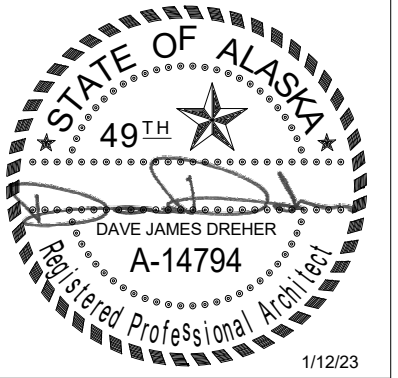
1. ALL TRIM AND FLASHING TO MATCH ADJACENT FINISHES, UNO.
2. PAINT ALL EXPOSED LOUVERS, HOODS, PANELS, PIPES AND CONDUITS TO MATCH ADJACENT METAL TRIM IF NOT SPECIFIED IN ELEVATIONS OR DETAILS.

DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 EXTERIOR ELEVATIONS  
 REVISIONS:  
 SHEET NO:

**A302**



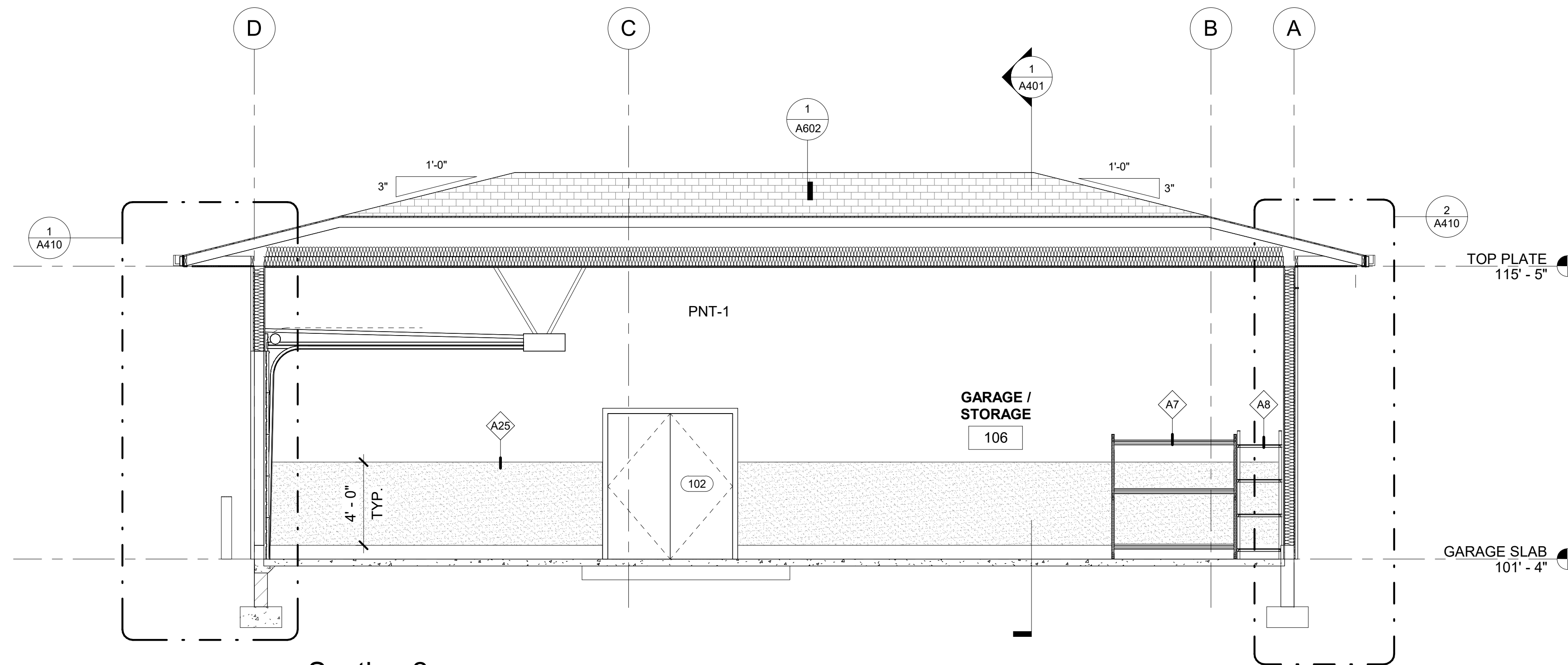
**2 EXTERIOR ELEVATION - WEST**  
 [1/A201] Scale: 1/4" = 1'-0"



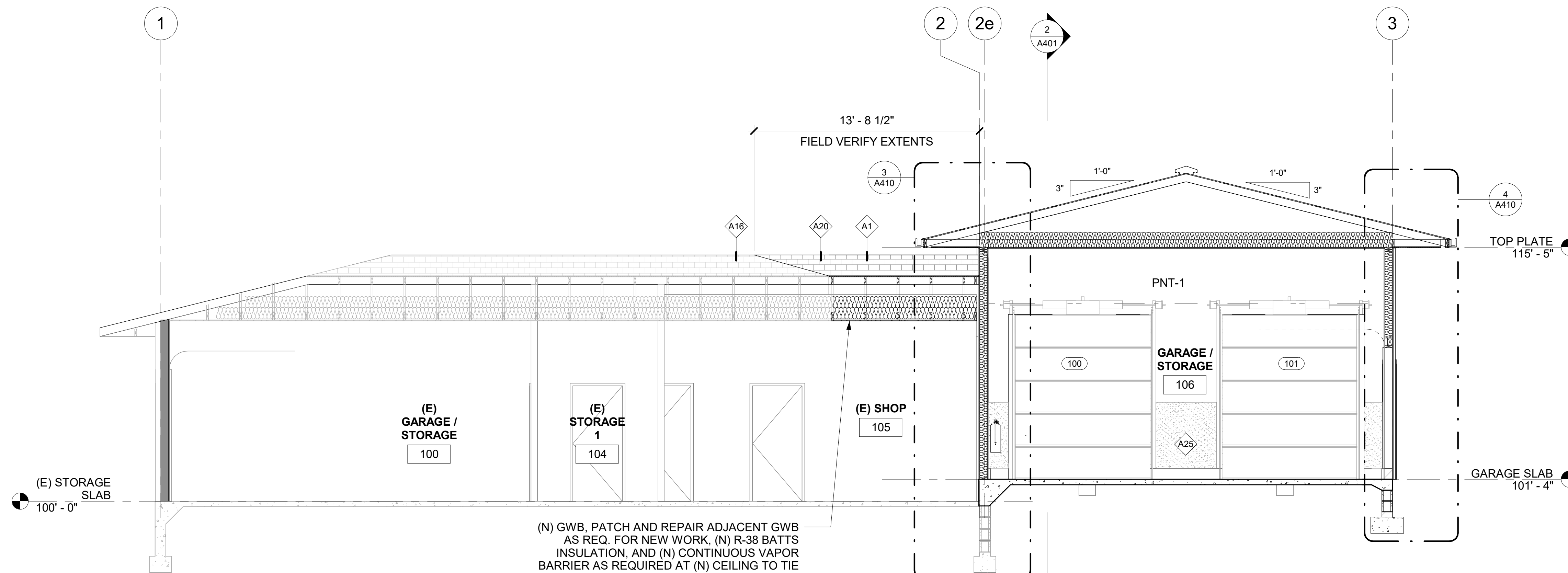
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**ARCHITECTURAL KEY NOTES**

- A1 (N) ASPHALT SHINGLES TO MATCH ADJACENT EXISTING
- A7 (N) TIRE RACK - OFOI
- A8 (N) STORAGE SHELVING - OFOI
- A16 PATCH EXISTING ROOFING AS REQUIRED
- A20 (N) ROOF OVER FRAMING PER STRUCTURAL
- A25 (N) WALL COVERING, FRP-1



**2 Section 2**  
 [1/A201] Scale: 1/4" = 1'-0"



**1 Section 1**  
 [1/A201] Scale: 1/4" = 1'-0"

(N) GWB, PATCH AND REPAIR ADJACENT GWB AS REQ. FOR NEW WORK, (N) R-38 BATTS INSULATION, AND (N) CONTINUOUS VAPOR BARRIER AS REQUIRED AT (N) CEILING TO TIE INTO EXISTING CEILING. REINSTALL (E) LIGHTING AND MECHANICAL EQUIPMENT, SEE ELECTRICAL AND MECHANICAL

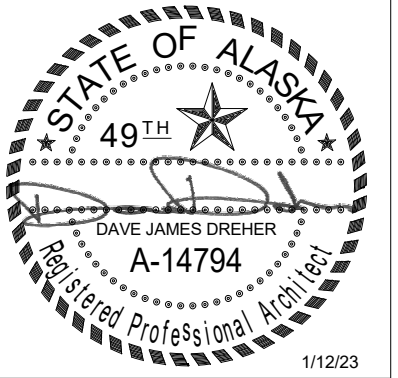
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DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 BUILDING SECTIONS

REVISIONS:

SHEET NO:

**A401**



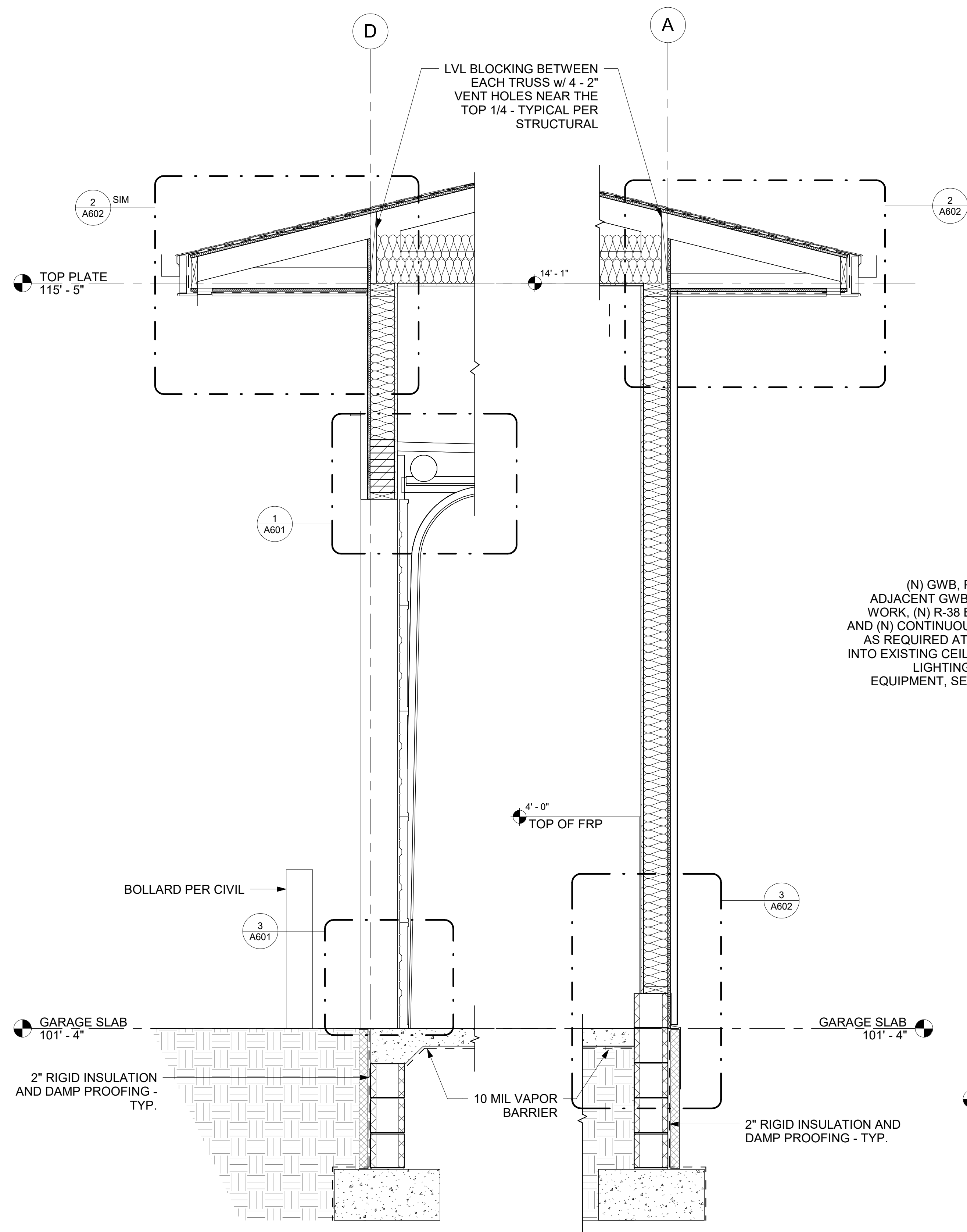
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 DRAWING TITLE:  
 WALL SECTIONS

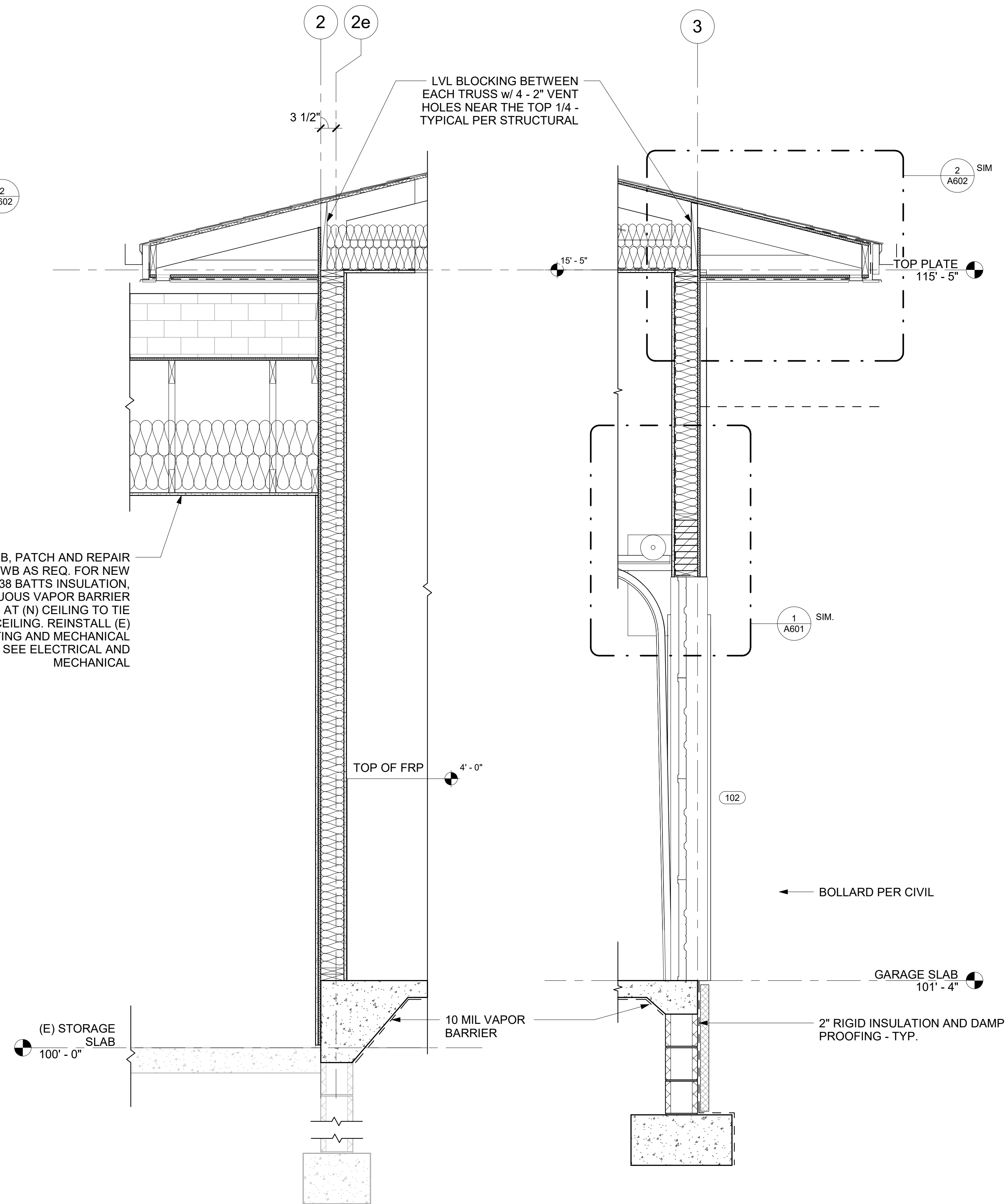
REVISIONS:

SHEET NO:  
**A410**



**1 WALL SECTION 1**  
 [2/A401] Scale: 3/4" = 1'-0"

**2 WALL SECTION 2**  
 [2/A401] Scale: 3/4" = 1'-0"

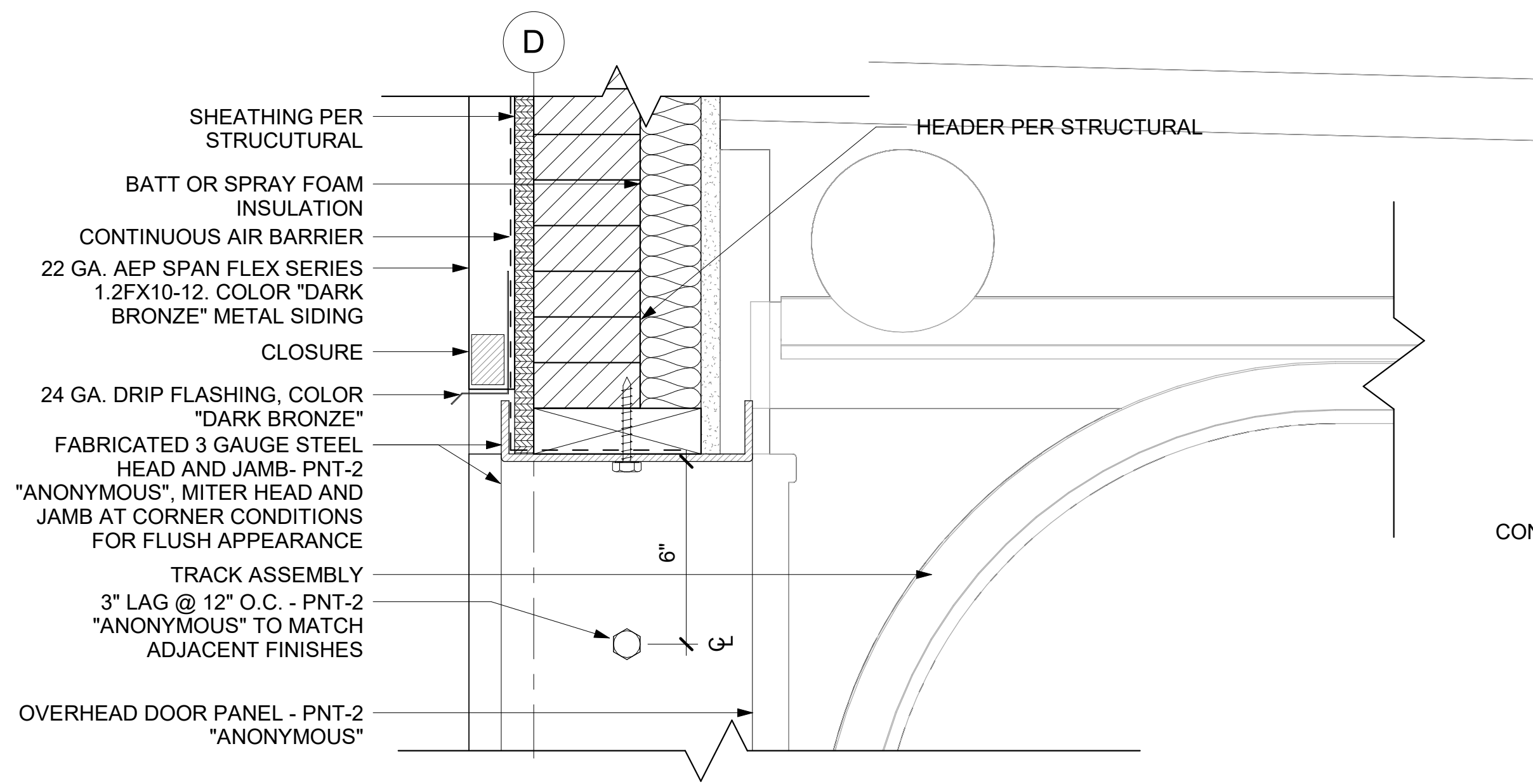


**3 WALL SECTION 4**  
 [1/A401] Scale: 3/4" = 1'-0"

**4 WALL SECTION 3**  
 [1/A401] Scale: 3/4" = 1'-0"

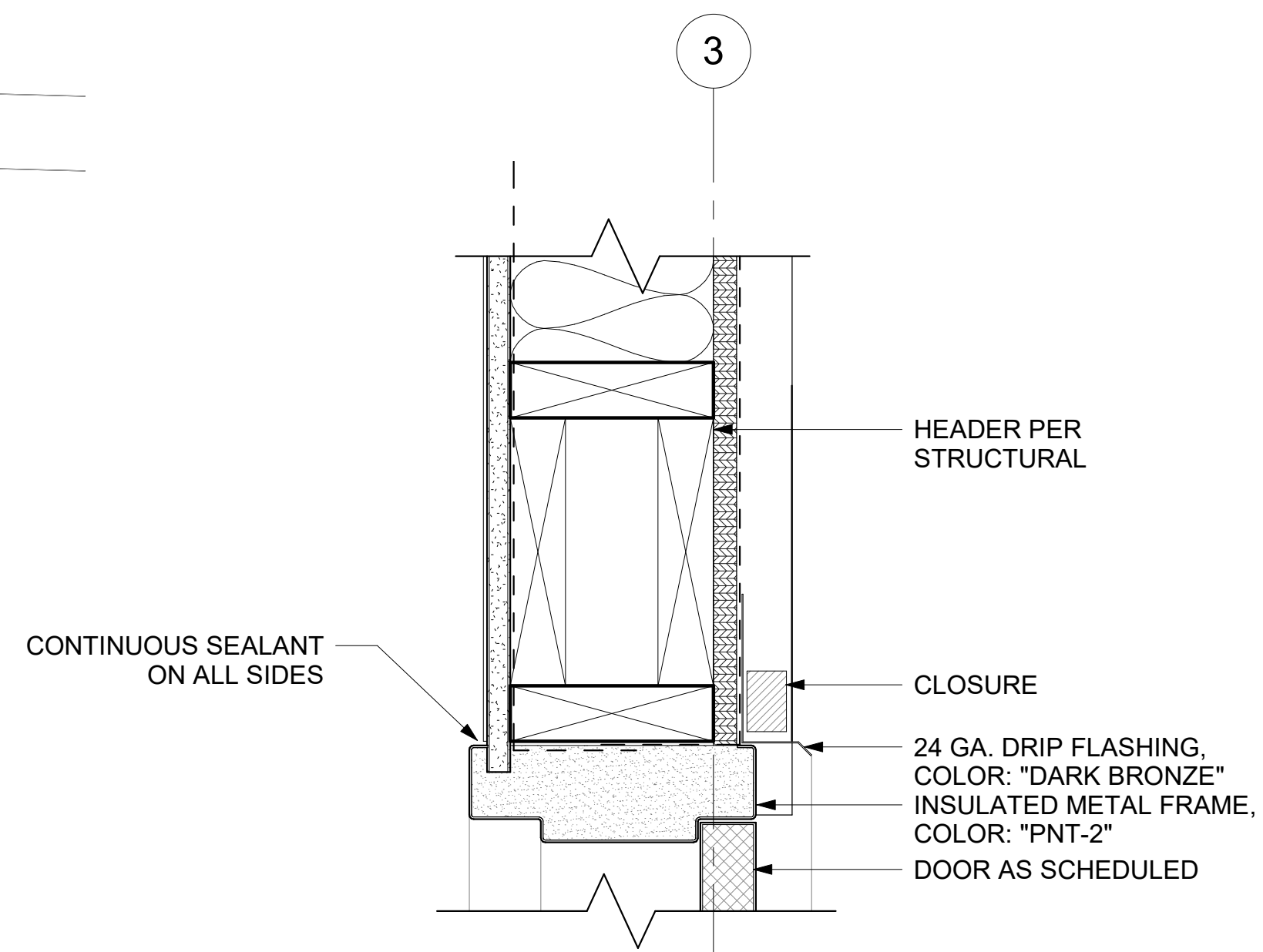
(N) GWB, PATCH AND REPAIR ADJACENT GWB AS REQ. FOR NEW WORK, (N) R-38 BATTS INSULATION, AND (N) CONTINUOUS VAPOR BARRIER AS REQUIRED AT (N) CEILING TO TIE INTO EXISTING CEILING. REINSTALL (E) LIGHTING AND MECHANICAL EQUIPMENT, SEE ELECTRICAL AND MECHANICAL





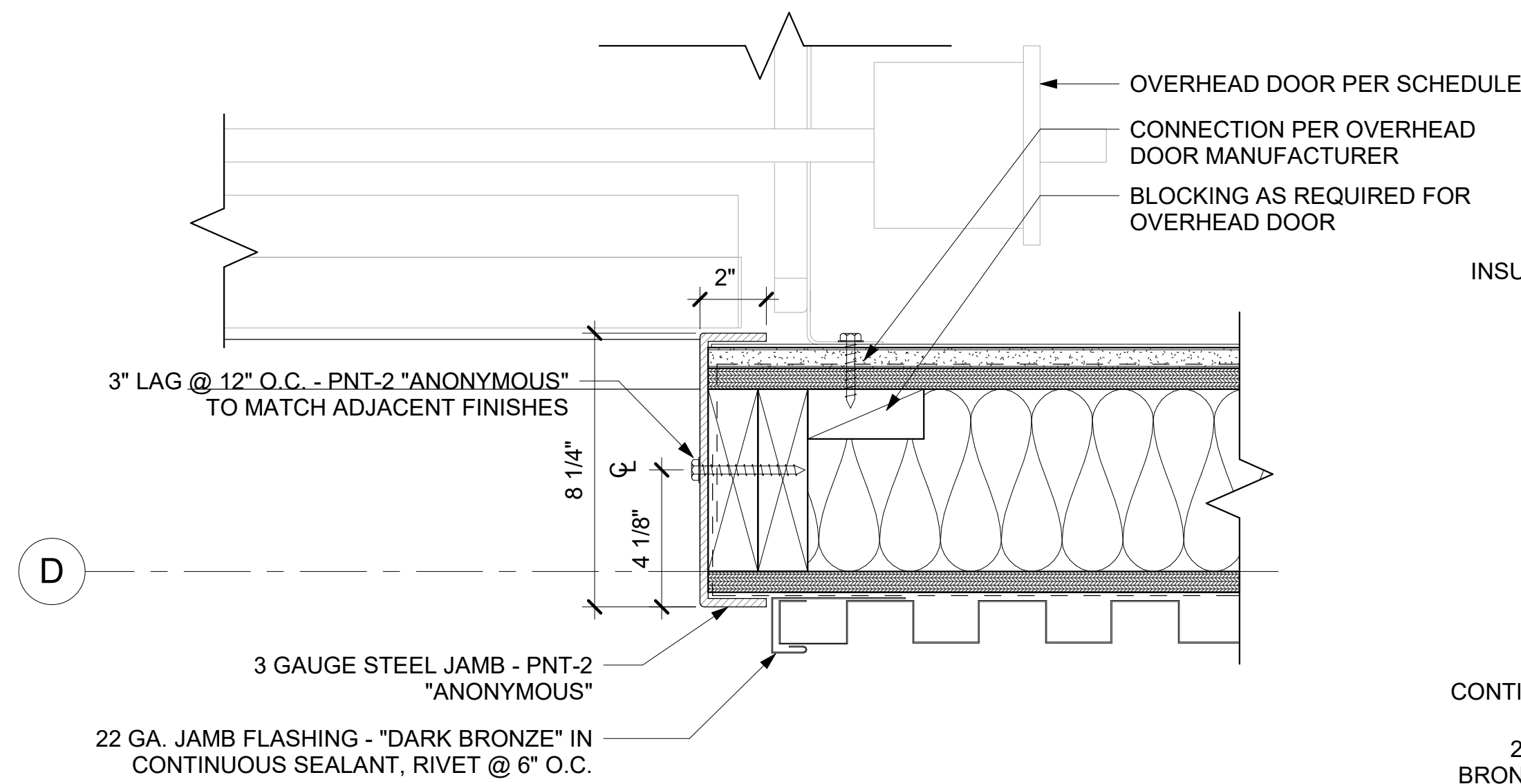
**1 OVERHEAD DOOR HEAD DETAIL**

[1/A301] Scale: 3" = 1'-0"



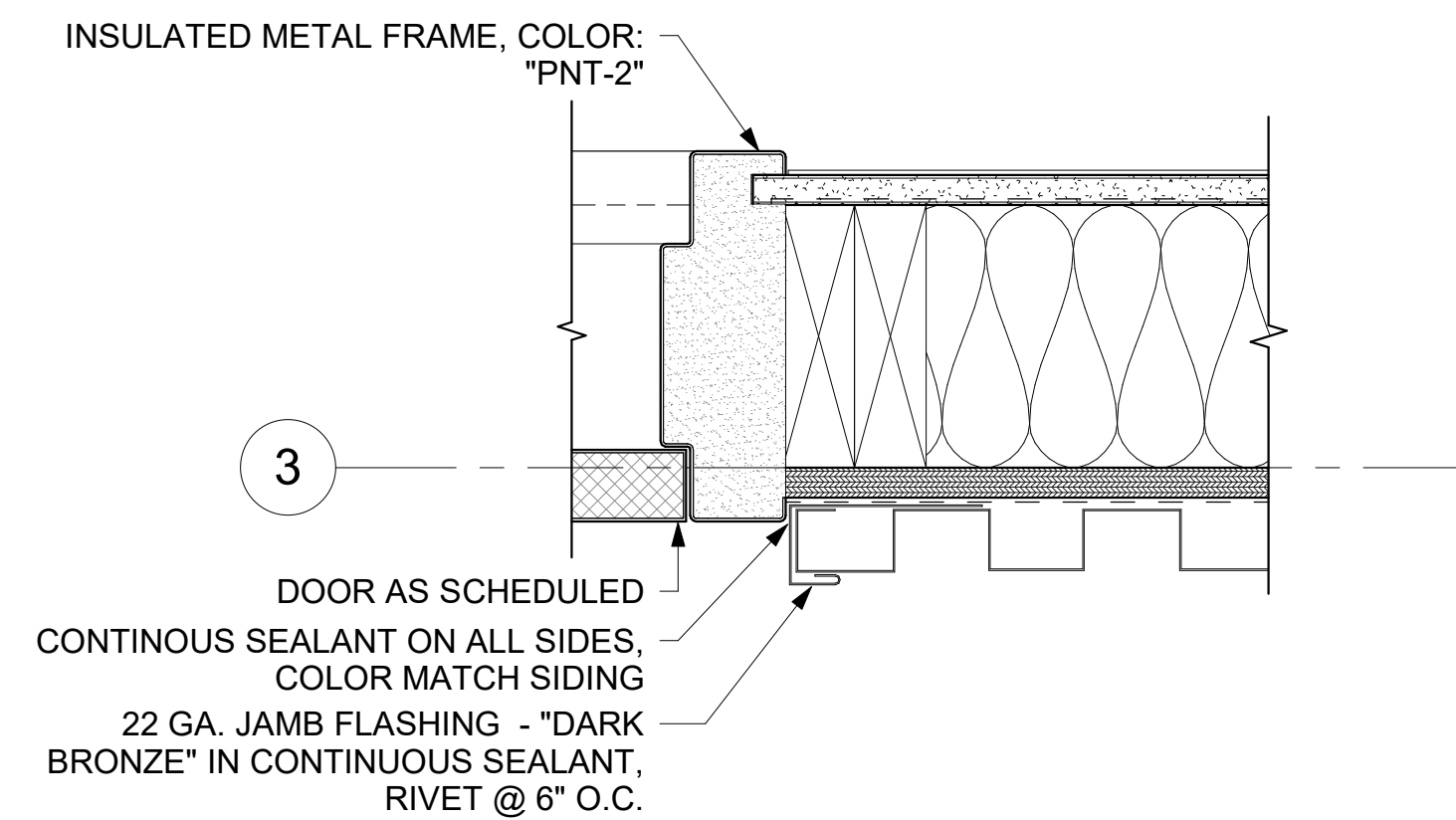
**4 DOOR HEAD DETAIL**

[2/A301] Scale: 3" = 1'-0"



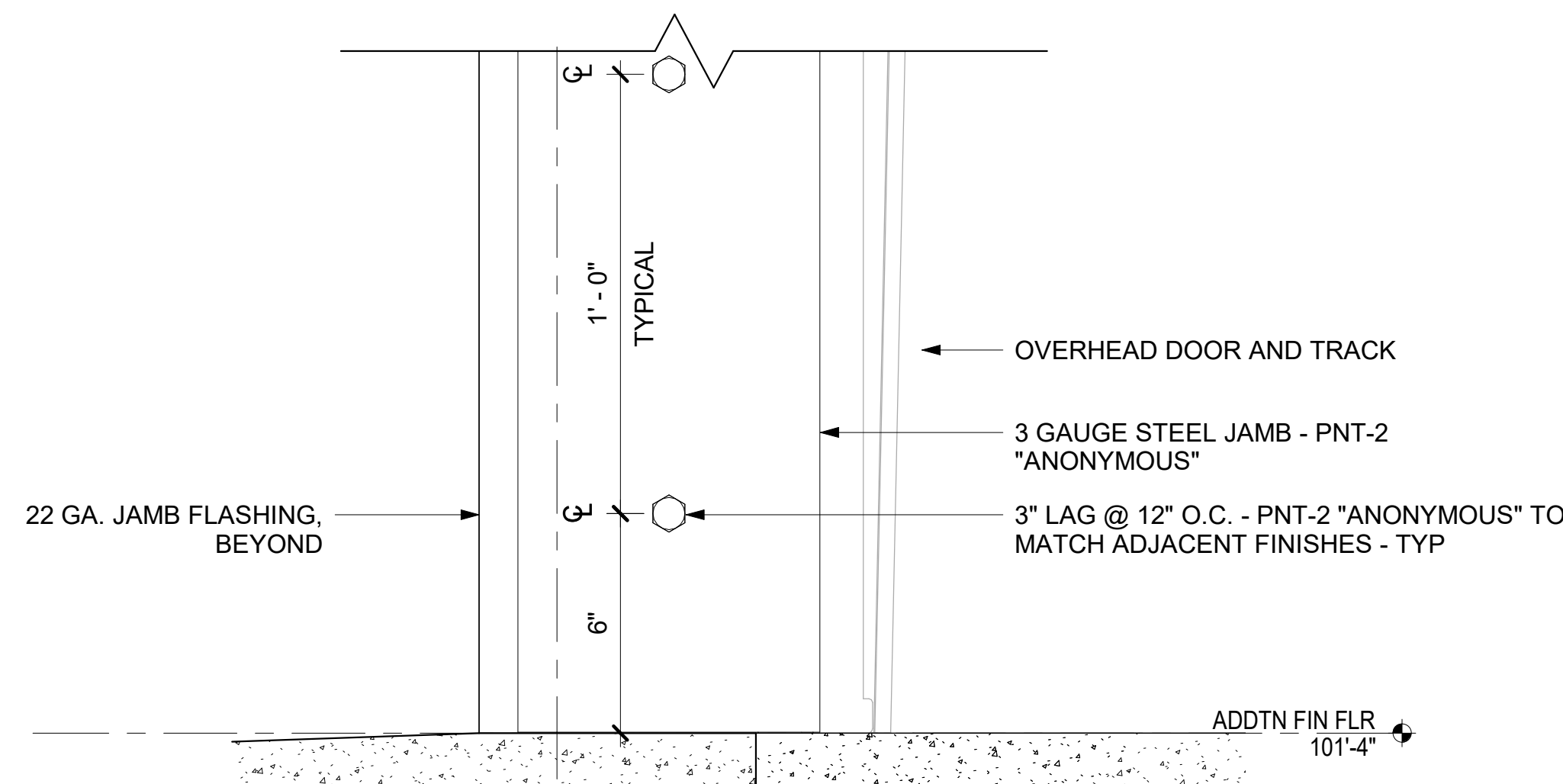
**2 OVERHEAD DOOR JAMB DETAIL**

[1/A301] Scale: 3" = 1'-0"



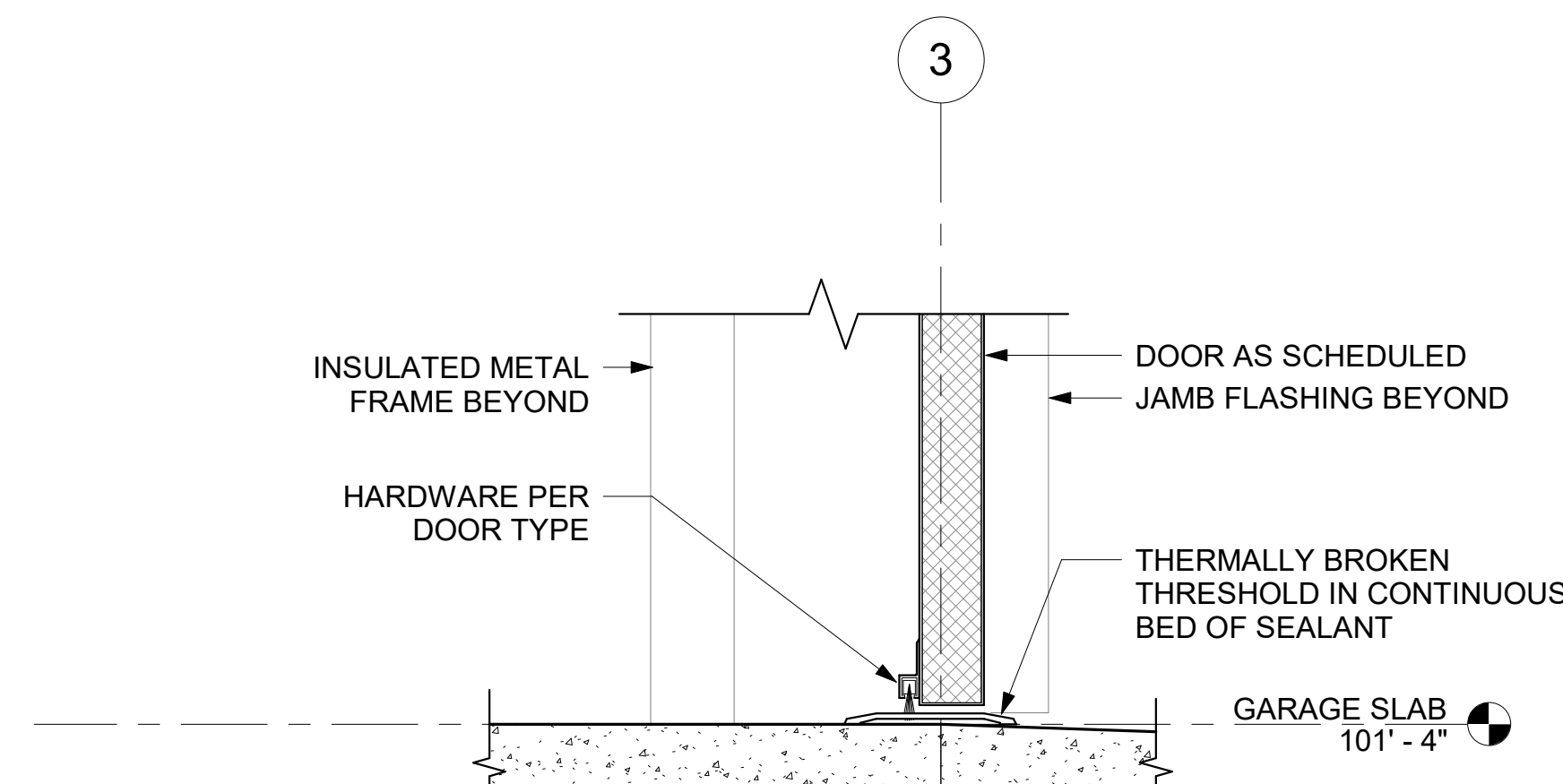
**5 DOOR JAMB DETAIL**

[2/A301] Scale: 3" = 1'-0"



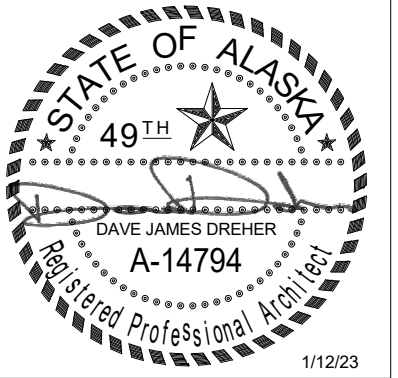
**3 OVERHEAD DOOR SILL DETAIL**

[1/A301] Scale: 3" = 1'-0"



**6 DOOR SILL DETAIL**

[2/A301] Scale: 3" = 1'-0"



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ANCHORAGE, ALASKA

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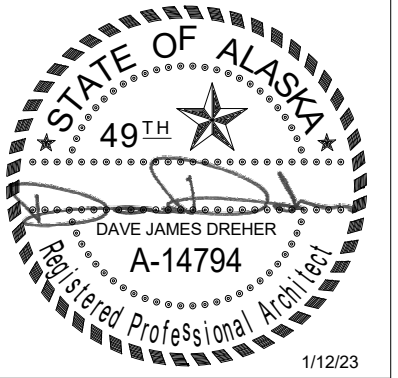
PROJECT: 1718.68

DRAWING TITLE:  
EXTERIOR DETAILS

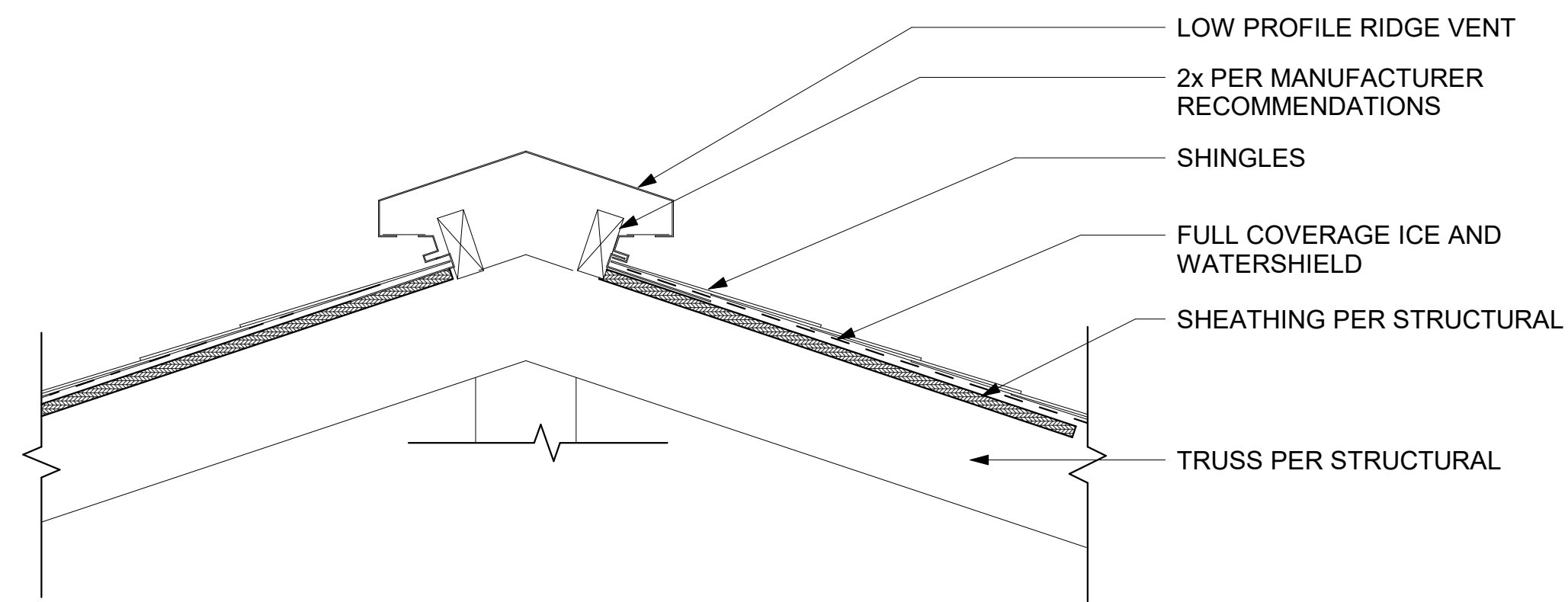
REVISIONS:

SHEET NO:

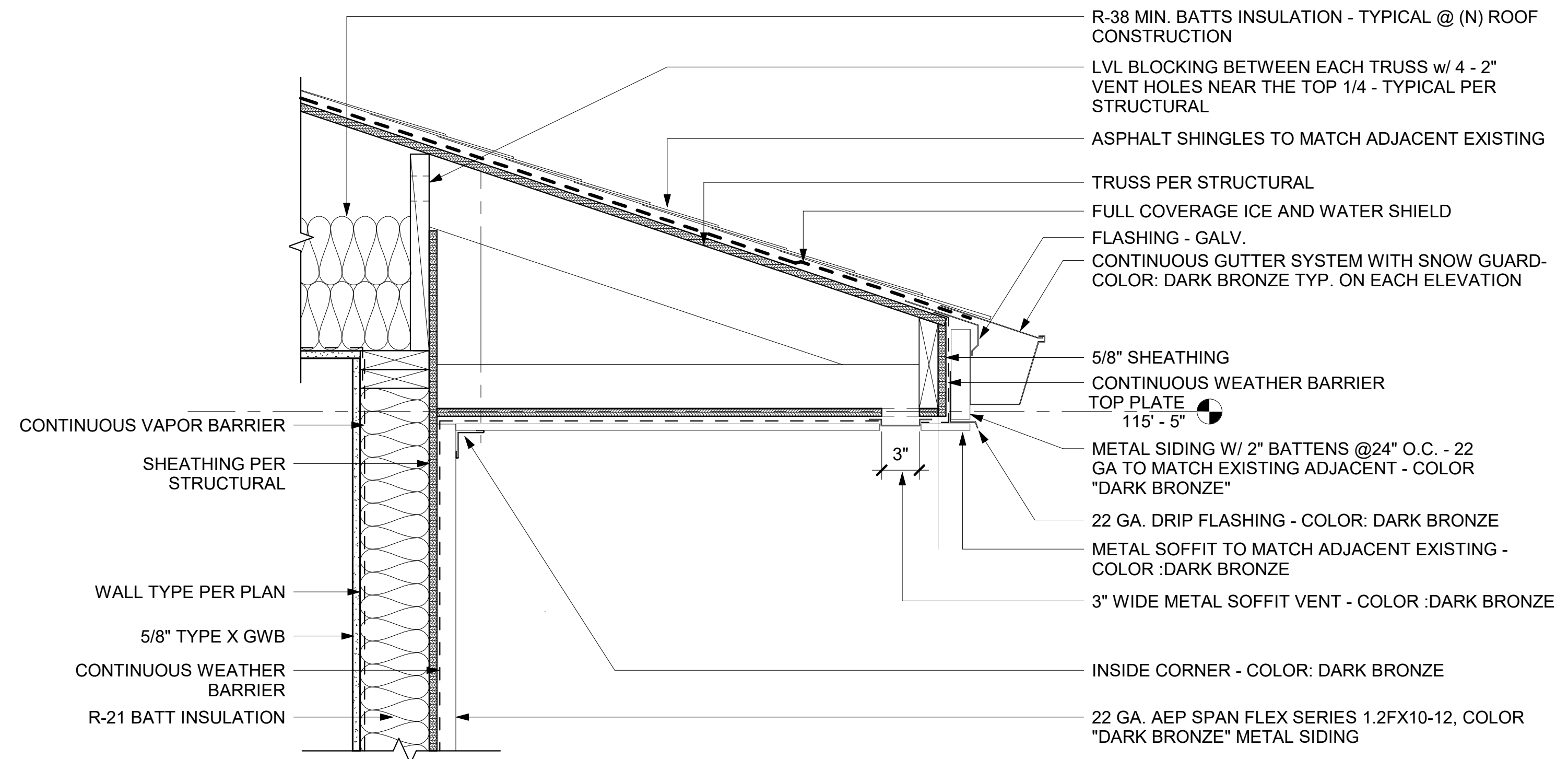
**A601**



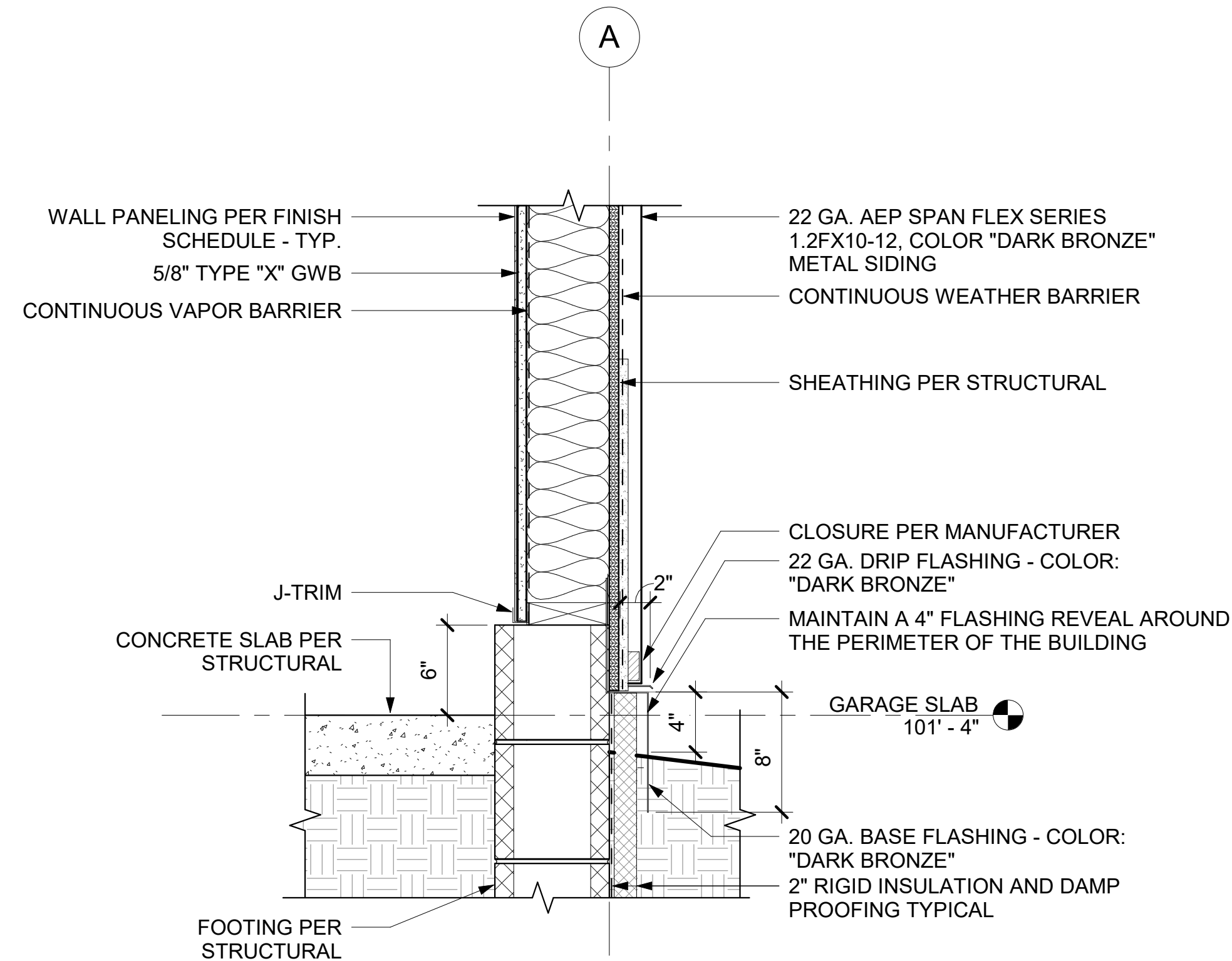
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**1 ROOF PEAK DETAIL**  
 [1/A204] Scale: 1 1/2" = 1'-0"



**2 ROOF EAVE DETAIL**  
 [1/A410] Scale: 1 1/2" = 1'-0"

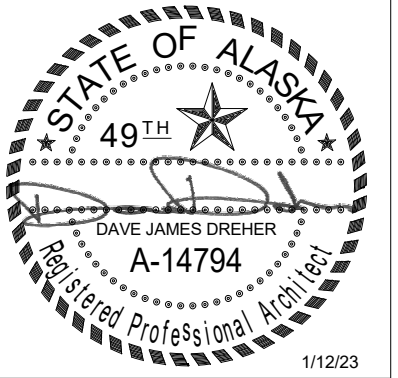


**3 WAINSCOT SECTION - TYPICAL**  
 [2/A410] Scale: 1 1/2" = 1'-0"

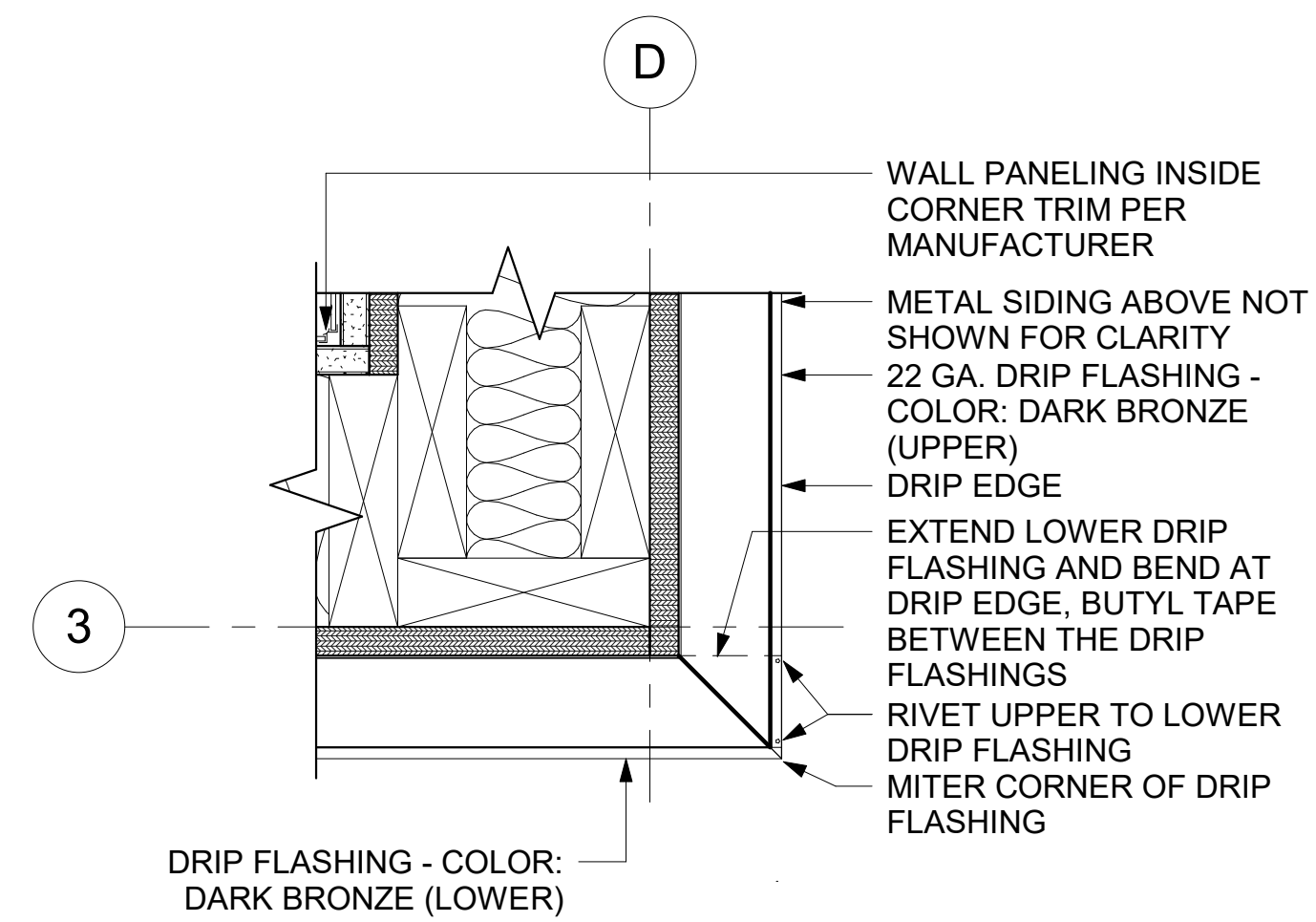
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DATE: 1/12/23  
 DRAWN: DBH  
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 DRAWING TITLE:  
 EXTERIOR DETAILS  
 REVISIONS:  
 SHEET NO:

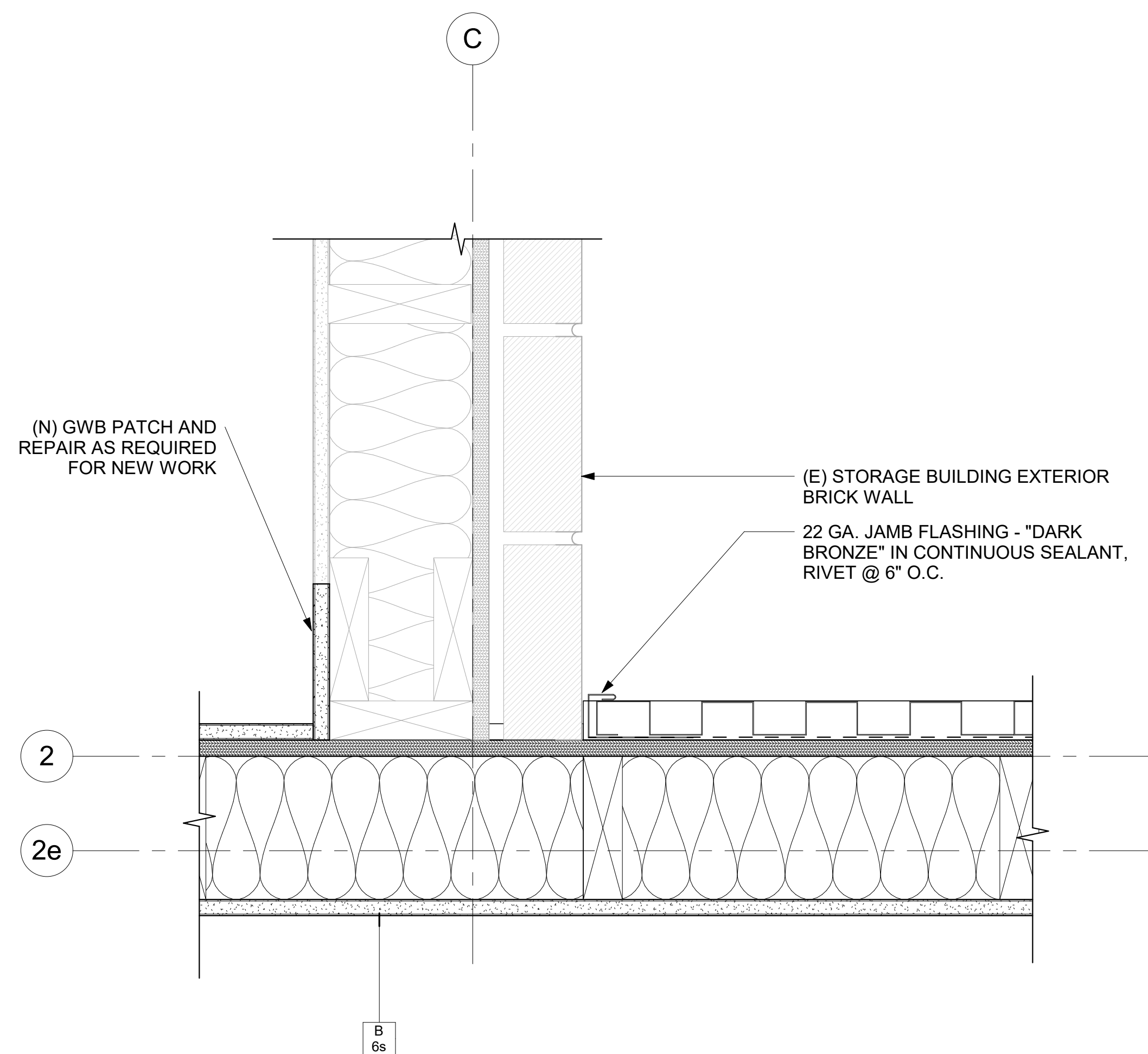
**A602**



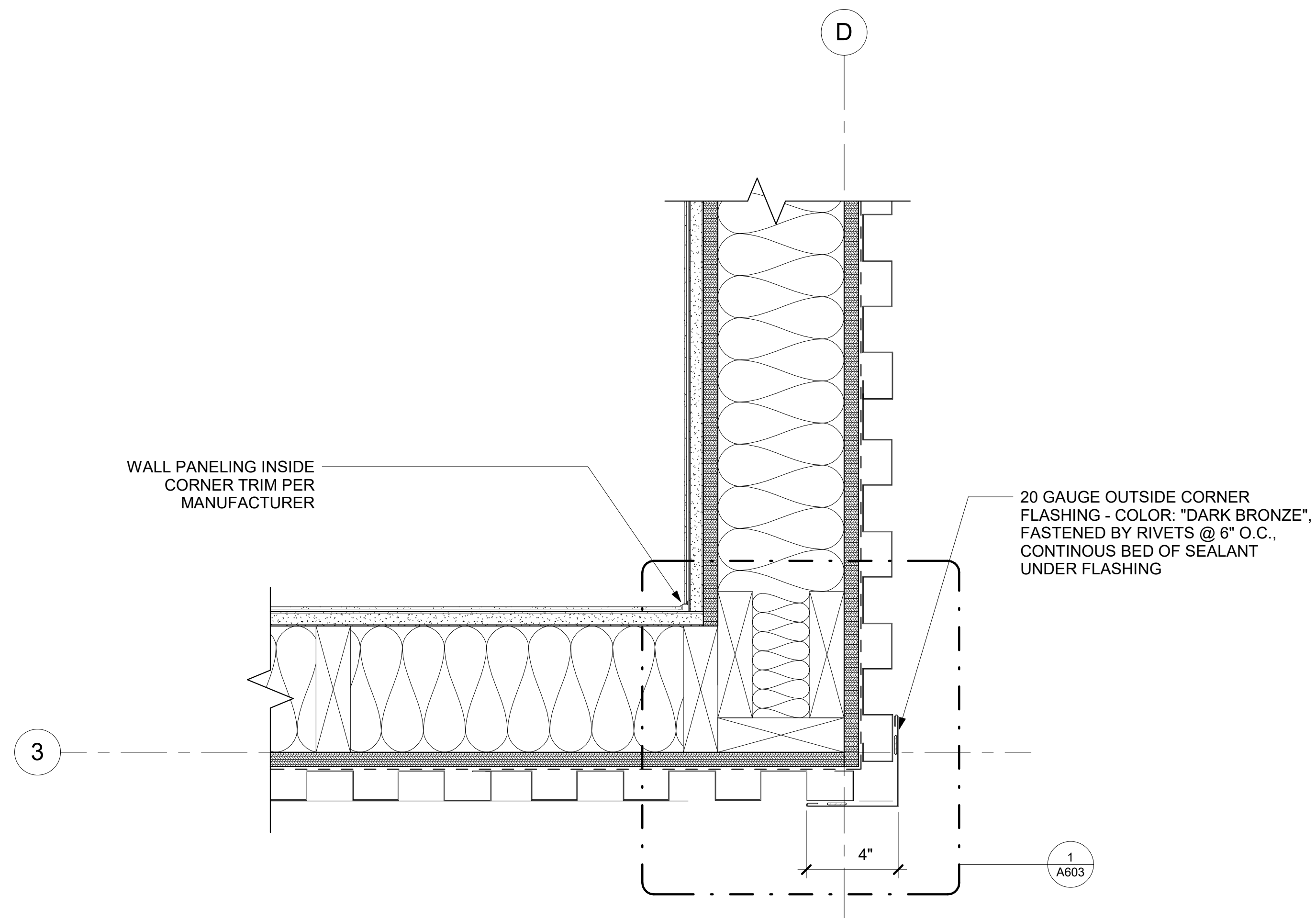
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**1 DRIP FLASHING @ CORNER**  
 [3/A603] Scale: 3" = 1'-0"



**2 INSIDE CORNER DETAIL**  
 [1/A202] Scale: 3" = 1'-0"



**3 OUTSIDE CORNER DETAIL - TYPICAL**  
 [1/A202] Scale: 3" = 1'-0"

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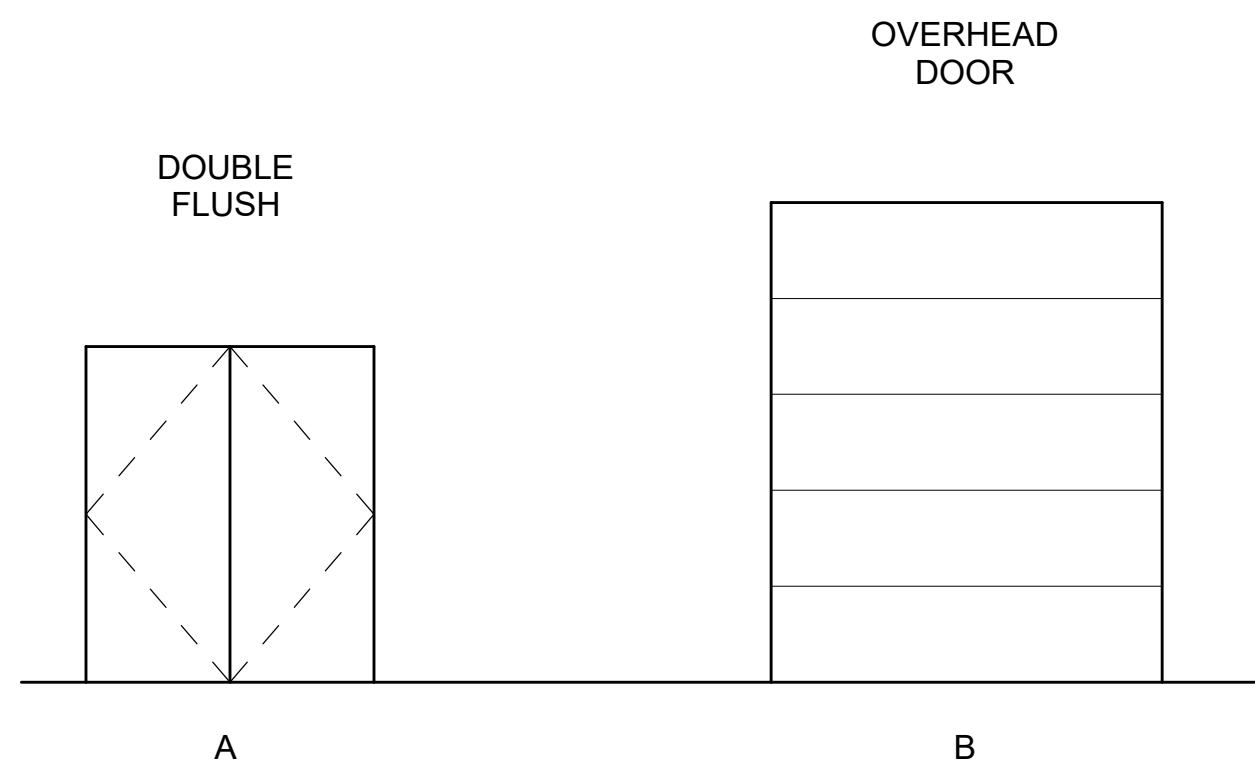
DATE: 1/12/23  
 DRAWN: DBH  
 CHECKED: DJD  
 PROJECT: 1718.68  
 DRAWING TITLE:  
 EXTERIOR DETAILS

REVISIONS:

SHEET NO:

**A603**



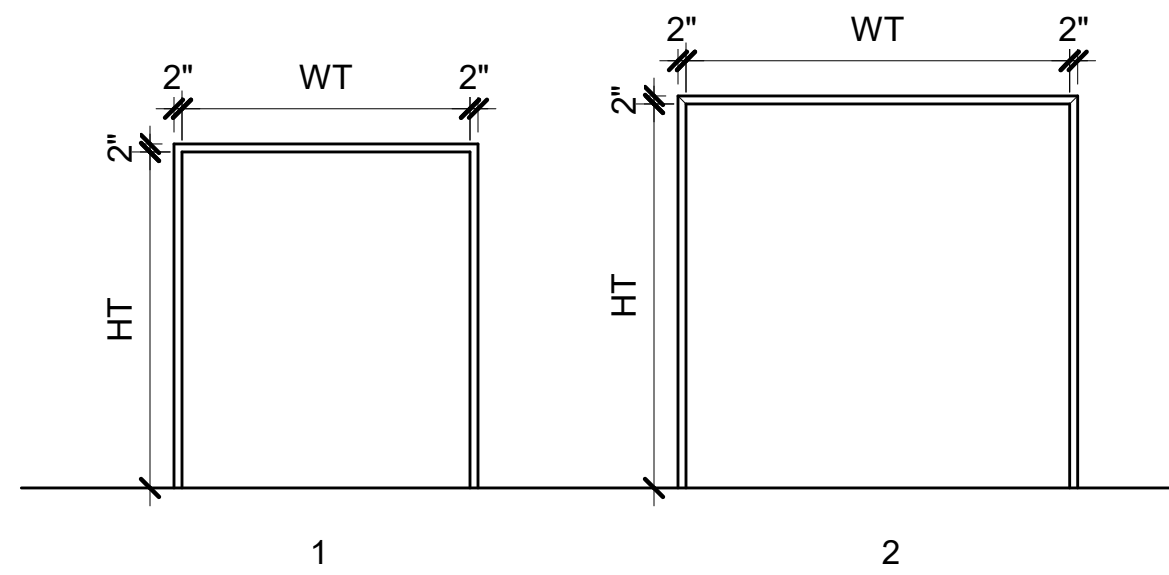


**HARDWARE GROUP #1**

6	HINGES	CB199 4 1/2 X 4 1/2 NRP	BLK	ST
2	EXIT DEVICE	9927EO LBR	BLK	VO
2	CLOSER	4040 XP EDA	BLK	LC
2	OVERHEAD STOP	910 S SERIES	BLK	DM
1	LENGTH DRIP CAP	DC-1 4" ODW	BLK	DH
1	SET PERIMETER SEAL	PS-V HEAD & JAMBS	BLK	DH
1	MEETING STILES	PS-V FULL HEIGHT	BLK	DH
2	DOOR SWEEP	SW-R	BLK	DH
1	THRESHOLD	8426	AL	NA

**LEGEND- DOOR TYPES**

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



**LEGEND- FRAME TYPES**

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

**HARDWARE GROUPS**

**DOOR SCHEDULE NOTES AND REMARKS**

**GENERAL DOOR NOTES**

1. ALL DIMENSIONS SHOWN ARE SUBJECT TO FIELD VERIFICATION
2. CONTRACTOR TO VERIFY ROUGH OPENINGS (R.O.) DIMENSIONS
3. EXTERIOR GLAZING UNITS DOUBLE-PANE INSULATED AND FULLY TEMPERED (FT)
4. INTERIOR GLAZING SHALL BE SAFETY GLASS OR TYPED AS SPECIFIED

**DOOR SCHEDULE**

DOOR NO	DOOR						HARDWARE GROUP	FRAME			FIRE RATING	REMARKS
	SIZE			TYPE	MATERIAL	FINISH		TYPE	MATERIAL	FINISH		
WIDTH	HEIGHT	THICKNESS										
100	8' - 0"	10' - 0"	2"	B	STEEL	FACTORY FINISH	~	2	STEEL	PNT-2	~	
101	8' - 0"	10' - 0"	2"	B	STEEL	FACTORY FINISH	~	2	STEEL	PNT-2	~	
102	6' - 0"	7' - 0"	2"	A	IHM	PNT-2	1	1	IHM	PNT-2	~	

**ROOM FINISH SCHEDULE**

ROOM NAME	ROOM NUMBER	FLOOR FINISH	BASE	WALLS					CEILING MATERIAL	CEILING FINISH	REMARKS
				WALL MATERIAL	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST			
GARAGE / STORAGE	106	CONCRETE	CMU	GWB	PNT-1/FRP-1	PNT-1/FRP-1	PNT-1/FRP-1	PNT-1/FRP-1	GWB	PNT-1	

**MATERIAL LEGEND**

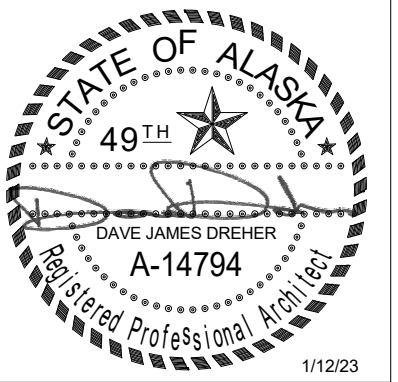
MATERIAL CODE	MATERIAL TYPE	MANUFACTURER	BASIS OF DESIGN		SIZE	REMARKS
			STYLE	COLOR		

**PAINTING AND COATING**

PNT-1	INTERIOR PAINT	SHERWIN WILLIAMS	SW 7757	HIGH REFLECTIVE WHITE		EGGSHELL
PNT-2	EXTERIOR PAINT	SHERWIN WILLIAMS	SW 7046	ANONYMOUS		SEMI GLOSS

**WALL COVERING**

FRP-1	WALL COVERING	CRANE COMPOSITES	GLASBORD	GRAY	4x10	
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 ANCHORAGE, ALASKA

DATE: 1/12/23

DRAWN: DBH

CHECKED: DJD

PROJECT: 1718.68

DRAWING TITLE:  
 DOOR AND FINISH  
 SCHEDULE

REVISIONS:

SHEET NO:

**A801**

DESIGN CRITERIA				
<b>DESIGN CODES AND STANDARDS</b>				
IBC-2018: INTERNATIONAL BUILDING CODE, WITH LOCAL AMENDMENTS				
<b>RISK CATEGORY</b>				
<b>DESIGN DEAD LOADS</b>				
LOCATION	UNIFORM	CONCENTRATED	REMARKS	
	PSF	LBS		
ROOFS, UNO	20	---	---	
EXTERIOR WALLS, UNO	10	---	---	
<b>DESIGN LIVE LOADS</b>				
LOCATION	UNIFORM	CONCENTRATED	REMARKS	
	PSF	LBS		
ROOFS, UNO	20**	---	---	
LIGHT STORAGE	125	---	---	
**SNOW LOADS GOVERN				
<b>DESIGN SNOW LOADS</b>				
GROUND SNOW LOAD, Pg				50 PSF
SNOW IMPORTANCE FACTOR, Is				1.0
SNOW EXPOSURE FACTOR, Ce				1.0
SNOW THERMAL FACTOR, Ct (WARM)				1.0
FLAT-ROOF SNOW LOAD, Pf (WARM)				40 PSF
SNOW DRIFT				PER ASCE 7
UNBALANCED SNOW LOADS				PER ASCE 7
<b>DESIGN WIND LOADS</b>				
ULTIMATE WIND SPEED, VuIt				130 MPH
WIND EXPOSURE				B
INTERNAL PRESSURE COEFFICIENT				±0.18
C&C EDGE AND CORNER DISTANCE, "a"				5 FT
C&C PRESSURES (ULTIMATE):				
LOCATION	REGION	ZONE	10 SQFT***	100 SQFT***
			200 SQFT***	
ROOF	INTERIOR	1	38 PSF	30 PSF
	EAVE	2e	64 PSF	60 PSF
	RIDGE	2r	67 PSF	45 PSF
	CORNER	3	79 PSF	55 PSF
WALL	INTERIOR	4	33 PSF	28 PSF
	CORNER	5	41 PSF	32 PSF
***VALUES MAY BE LINEARLY INTERPOLATED				
<b>DESIGN SEISMIC LOADS</b>				
SEISMIC IMPORTANCE FACTOR, Ie				1.00
SITE CLASS				D (ASSUMED)
MAPPED SPECTRAL RESPONSE, Ss / S1				1.50g / 0.68g
DESIGN SPECTRAL RESPONSE, SDS / SD1				1.20g / 0.68g
SEISMIC DESIGN CATEGORY				D
SEISMIC FORCE RESISTING SYSTEM	LIGHT FRAMED WOOD SHEATHED WALLS			
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE			
RESPONSE MODIFICATION COEFFICIENT, R				6.5
SEISMIC RESPONSE COEFFICIENT, Cs				0.185
DESIGN BASE SHEAR (NOMINAL)				25 KIPS
<b>EARTHWORK</b>				
ALLOWABLE BEARING PRESSURE				ASSUMED 1,500 PSF
MIN FOOTING DEPTH BELOW FINISHED GRADE:				
HEATED				42 IN

MATERIALS & STRENGTH				
<b>CONCRETE</b>				
ITEMS	MIN COMP STRENGTH	MAX W/C RATIO	AIR ENTRAINMENT	SLUMP
FOUNDATIONS	3,000 PSI	0.50	5%, ±1%	1 - 3 IN
SLAB ON GRADE	4,000 PSI	0.45	---	1 - 4 IN
<b>STRUCTURAL STEEL</b>				
ITEMS	ASTM	GRADE	MIN YIELD STRESS	REMARKS
THREADED RODS	A36	---	36 KSI	---
WASHERS	F436	---	---	---
NUTS	A563	---	---	---
ANCHOR RODS	F1554	36	---	---
<b>REINFORCING STEEL</b>				
ITEMS	ASTM	GRADE	MIN YIELD STRESS, Fy	REMARKS
REBAR	A615	60	60 KSI	---
<b>CONCRETE MASONRY UNITS</b>				
ITEMS	COMPRESSIVE STRENGTH	TYPE	GRADE	REMARKS
UNITS	2,500 PSI	ASTM C90	---	---
MORTAR	3,000 PSI	TYPE S	---	---
GROUT	3,000 PSI	COARSE	---	---
<b>WOOD</b>				
ITEMS	SIZE	SPECIES	GRADE	SPACING
STUDS	2x4	DF	STUD	16" OC
	2x6 OR LARGER	DF	#2	16" OC
	6x6 OR LARGER	DF	#1	---
BEAMS	---	DF	#2	---
LEDGERS	---	DF	#2	---
PLATES	---	DF	#2	---
BLOCKING	---	DF/HF	#2	---
<b>ENGINEERED LUMBER</b>				
ITEMS	TYPE	MANUFACTURER	REMARKS	
GLUED-LAMINATED BEAM	24F-V4 (SINGLE SPAN) 24F-V8 (CANTILEVER)	BOISE CASCADE OR APPROVED...	---	
<b>PLYWOOD SHEATHING</b>				
ITEMS	THICKNESS	SPAN/INDEX RATIO	EDGE ATTACHMENT	FIELD ATTACHMENT
ROOF	19/32"	32/16	SEE PLAN	SEE PLAN
WALL**	15/32"	24/0	10d AT 6" OC	10d AT 12" OC
**AT SHEAR WALL SEE SHEAR WALL SCHEDULE FOR SHEATHING THICKNESS AND ATTACHMENT.				

STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	IBC CODE REF	CODE OR STANDARD REFERENCE	INSPECTION		REMARKS
			FREQUENCY		
FABRICATION					
SPECIAL INSPECTIONS APPLY TO VERIFICATION OF DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES, INCLUDING REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WORK DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SAID WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATOR'S, UPON COMPLETION OF COMPONENT MANUFACTURING, SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.					
<b>CONCRETE</b>					
REINFORCING STEEL AND PLACEMENT	1908.4	ACI 318 CH. 20, 25.2, 25.3,...		X	---
ANCHORS CAST IN CONCRETE		ACI 318 17.8.2		X	ALL ANCHOR BOLTS ARE VISUALLY INSPECTED
ANCHORS POST INSTALLED IN CONCRETE: ADHESIVE INSTALLED HORIZONTALLY OR UPWARDLY INCLINED RESISTING SUSTAINED TENSION.		ACI 318 17.8.2.4	X		
ANCHORS POST INSTALLED IN CONCRETE: ALL OTHER ANCHORS		ACI 318 17.8.2		X	
VERIFY USE OF REQUIRED MIX DESIGNS(S)	1904.1 1904.2 1908.2...	ACI 318: CH. 19, 26.4.3, 26.4.4		X	---
VERIFICATION OF FORMWORK		ACI 318 26.11.1.2(b)		X	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
<b>MASONRY (LEVEL 1)</b>					
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR	1705.4	TMS 602: 2.1.2.6A, 2.6C		X	---
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT,...	1705.4	TMS 602: 2.4B, 2.4H		X	---
D. LOCATION OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES	1705.4	TMS 602: 3.4, 3.6A		X	---
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE	1705.4	TMS 602: 3.2D, 3.2F		X	---
C. PLACEMENT OF REINFORCEMENT, CONNECORS, AND...	1705.4	TMS 602: 3.2E, 3.4		X	---
D. PROPORTIONS OF SITE-PREPARED GROUT	1705.4	TMS 602: 2.6B, 2.4G.1.b		X	---
VERIFY DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE...	1705.4	TMS 602: 1.5		X	---
B. PLACEMENT OF MASONRY UNITS AND MORTAR...	1705.4	TMS 602: 3.3B		X	---
C. SIZE AND LOCATION OF ANCHORS, INCLUDING...	1705.4	TMS 402: 1.2.1(e), 6.2.1, 6.3.1		X	---
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F)	1705.4	TMS 602: 1.8C, 1.8D		X	---

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
SYSTEM OR MATERIAL	IBC CODE REF	CODE OR STANDARD REFERENCE	INSPECTION		REMARKS
			FREQUENCY		
STRUCTURAL WOOD					
NAILING, SCREWING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS	1705.11.2			X	SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, SCREWING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS OF THE MAIN WINDFORCE RESISTING SYSTEM, WHEN THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER

**DEFERRED SUBMITTALS**

DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED BY THE EOR AND THEN SUBMITTED TO THE BUILDING OFFICIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CALCULATION AND DRAWINGS STAMPED BY A STATE REGISTERED PROFESSIONAL ENGINEER FOR THE FOLLOWING CONTRACTOR DESIGNED ITEMS:

- PRE-ENGINEERED (PE) WOOD TRUSSES
- SEISMIC RESTRAINT OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS
- ROOFING ATTACHMENT

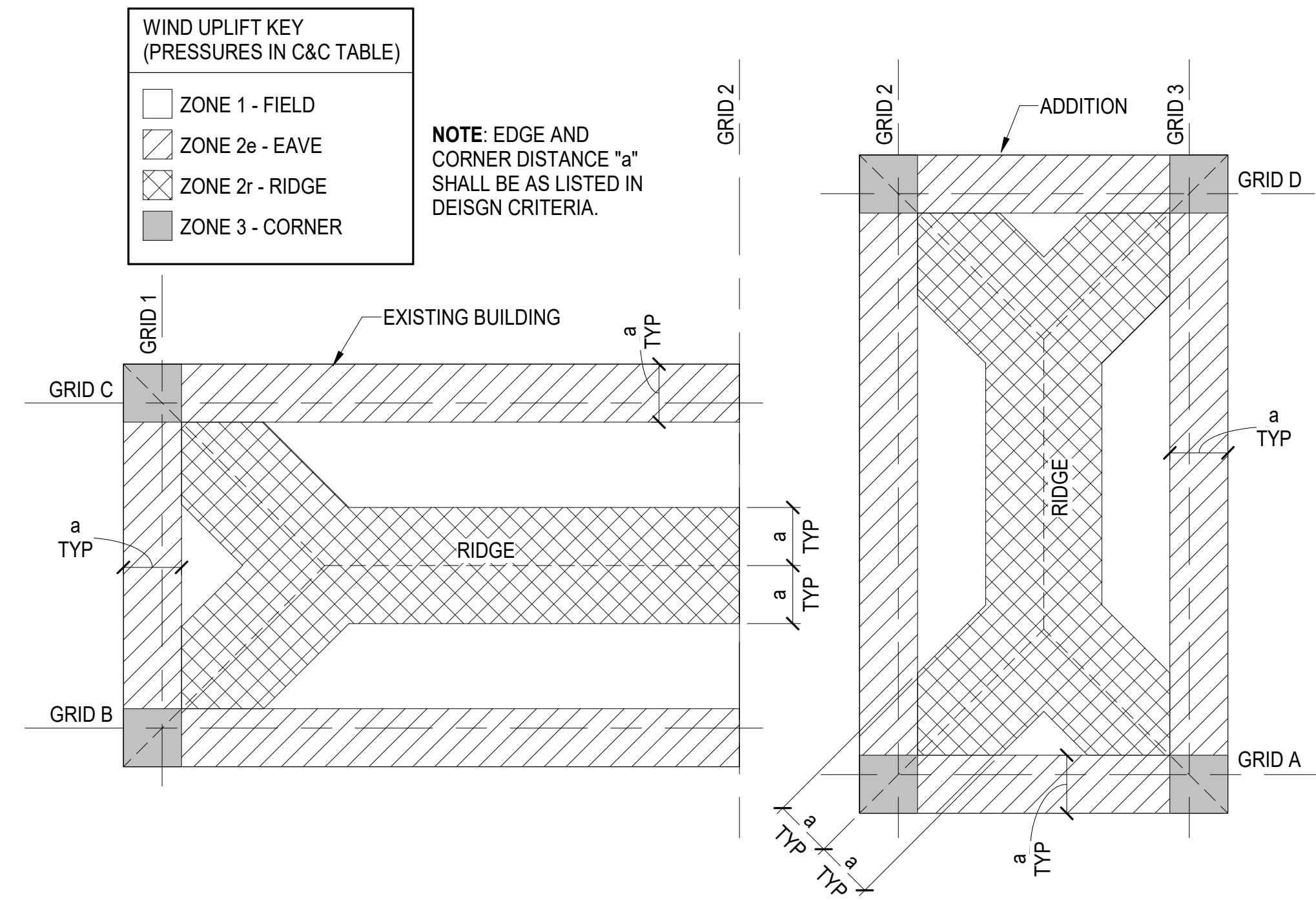
**STRUCTURAL NOTES**

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. THE SPECIFICATIONS AND NOTES LISTED BELOW. MINIMUM PROVISIONS OF THE CURRENTLY ENFORCED INTERNATIONAL BUILDING CODE, AND LOCAL AMENDMENTS SHALL APPLY WHERE DETAILS ARE NOT SHOWN OR DESCRIBED.

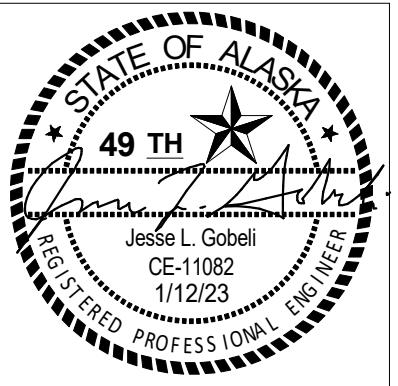
**AS-BUILT DRAWINGS**

CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS ON SITE, MODIFIED TO REFLECT ALL DESIGN CHANGES TO THE ORIGINAL DRAWING SET.

CRW ENGINEERING GROUP, LLC. (CRW) IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS, OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM CRW. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO CRW.



**1 WIND UPLIFT PLAN**  
SCALE: NTS



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23  
DRAWN: SP  
CHECKED: JG  
PROJECT: 74013.00  
DRAWING TITLE:  
DESIGN CRITERIA AND SPECIAL INSPECTION  
REVISIONS:  
SHEET NO:  
**S100**





**ROOF FRAMING SHEET NOTES**

1. REFERENCE ELEVATION TOP OF (E) CONCRETE SLAB ON GRADE = [100'-0"]. SEE CIVIL FOR ACTUAL ELEVATION.
2. BOTTOM OF (BO) TRUSS = [114'-5"].
3. ALL WALLS SHALL BE WOOD FRAMED W/ 2x6 AT 16" OC AND P.T. SILL PLATE AND DOUBLE TOP PLATE.
4. SWi DENOTES SHEAR WALL SHEATHING. INSTALL SHEATHING PER THE SHEAR WALL SCHEDULE.
5. Hi DENOTES HEADER IN WOOD WALL. SEE HEADER SCHEDULE FOR FRAMING.
6. SEE PE TRUSS DESIGN NOTES ON S400.
7. ROOF CONSTRUCTION, UNO: 19/32" PLYWOOD SHEATHING W/ 10d NAILS AT 6" OC (EDGE) AND 12" OC (FIELD), UNBLOCKED.

**PRE-ENGINEERED (PE) TRUSS NOTES**

PE TRUSSES ARE ALSO KNOWN AS METAL-PLATE CONNECTED TRUSSES.

TRUSS MANUFACTURER SHALL PROVIDE DESIGN TO INCLUDE ATTACHMENT OF TRUSSES TO STRUCTURE BELOW TO RESIST WIND UPLIFT. CONFIGURATION SHOWN IS SCHEMATIC, FINAL TRUSS LAYOUT TO BE DETERMINED BY TRUSS MANUFACTURER AND COORDINATED W/ ARCHITECTURAL ROOF PLANS.

TOP AND BOTTOM CHORD SHALL BE MINIMUM 2x6 LUMBER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CALCULATIONS AND DRAWINGS STAMPED BY A STATE REGISTERED PROFESSIONAL ENGINEER FOR THE PE TRUSS DESIGN PRIOR TO FABRICATION OR CONSTRUCTION.

**DESIGN LOADS:**

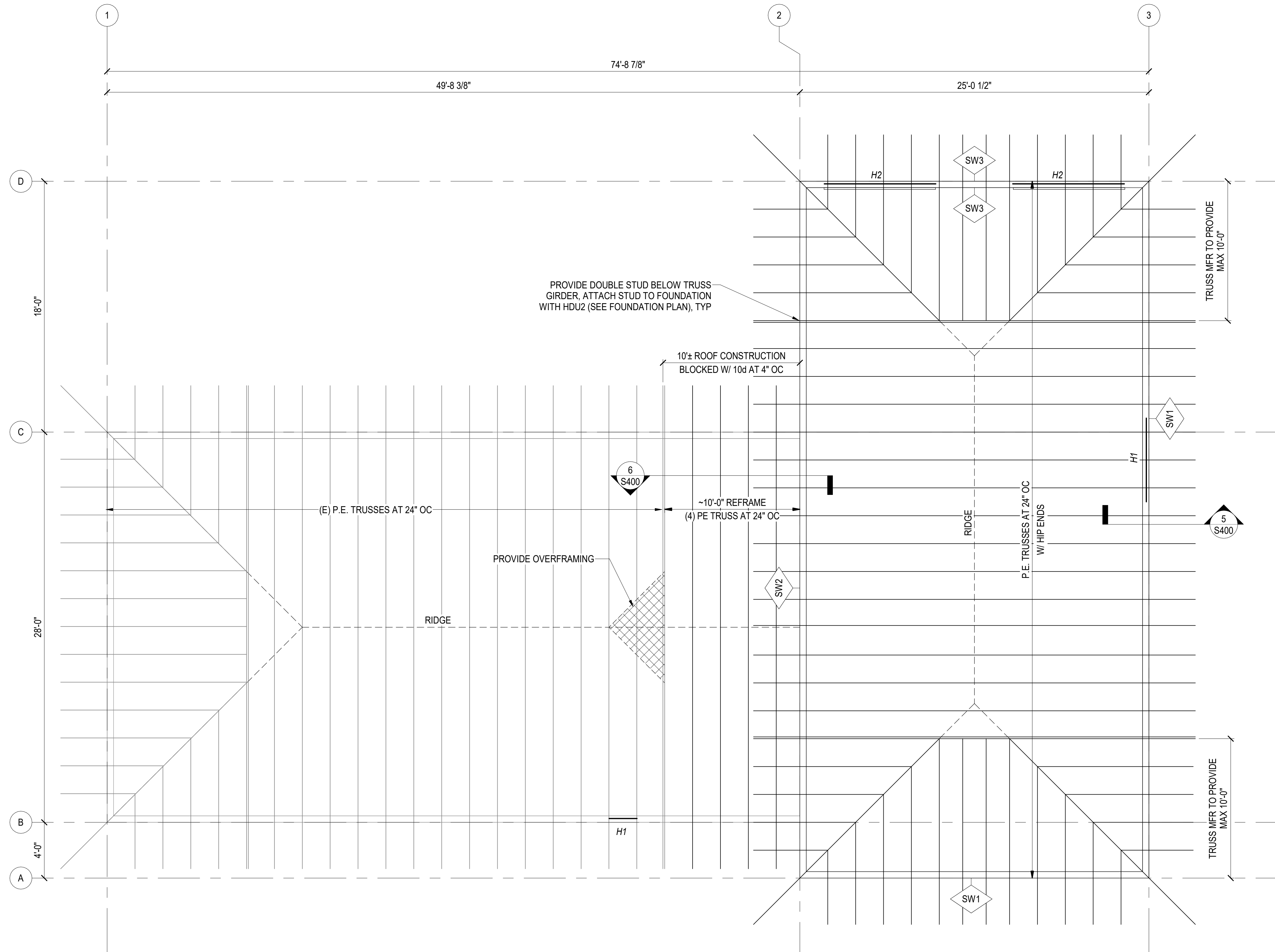
SNOW: CASE 1 - 40 PSF BALANCED SNOW LOAD +SNOW DRIFT (SEE DETAIL 6/S400)  
 CASE 2 - UNBALANCED SNOW LOAD TO BE DETERMINED BY TRUSS MFR

DEAD: 10 PSF TOP CHORD, 10 PSF BOTTOM CHORD

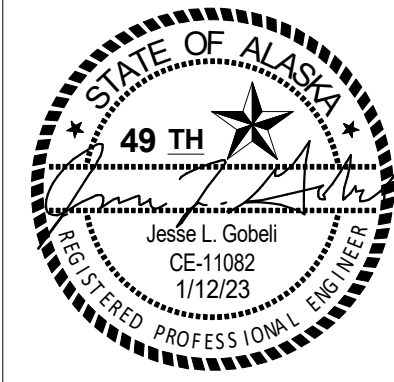
LIVE: 150 LB POINT LOAD LOCATED ANYWHERE ON TRUSS

WIND SPEED = 130 MPH, EXPOSURE B

WIND UPLIFT: SEE UPLIFT PLAN ON S100



**1 ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"



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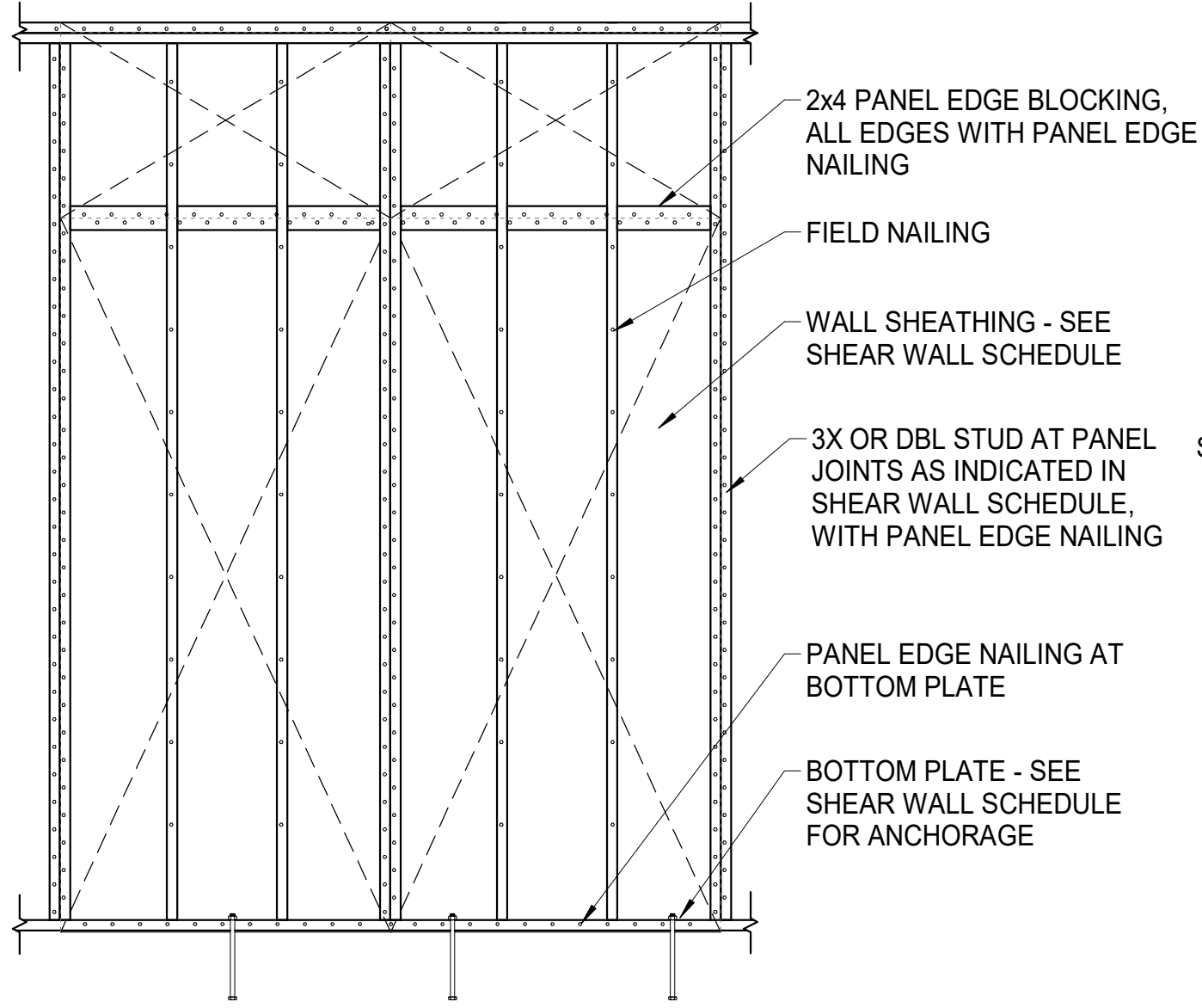
MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: SP  
 CHECKED: JG  
 PROJECT: 74013.00  
 DRAWING TITLE: ROOF FRAMING PLAN

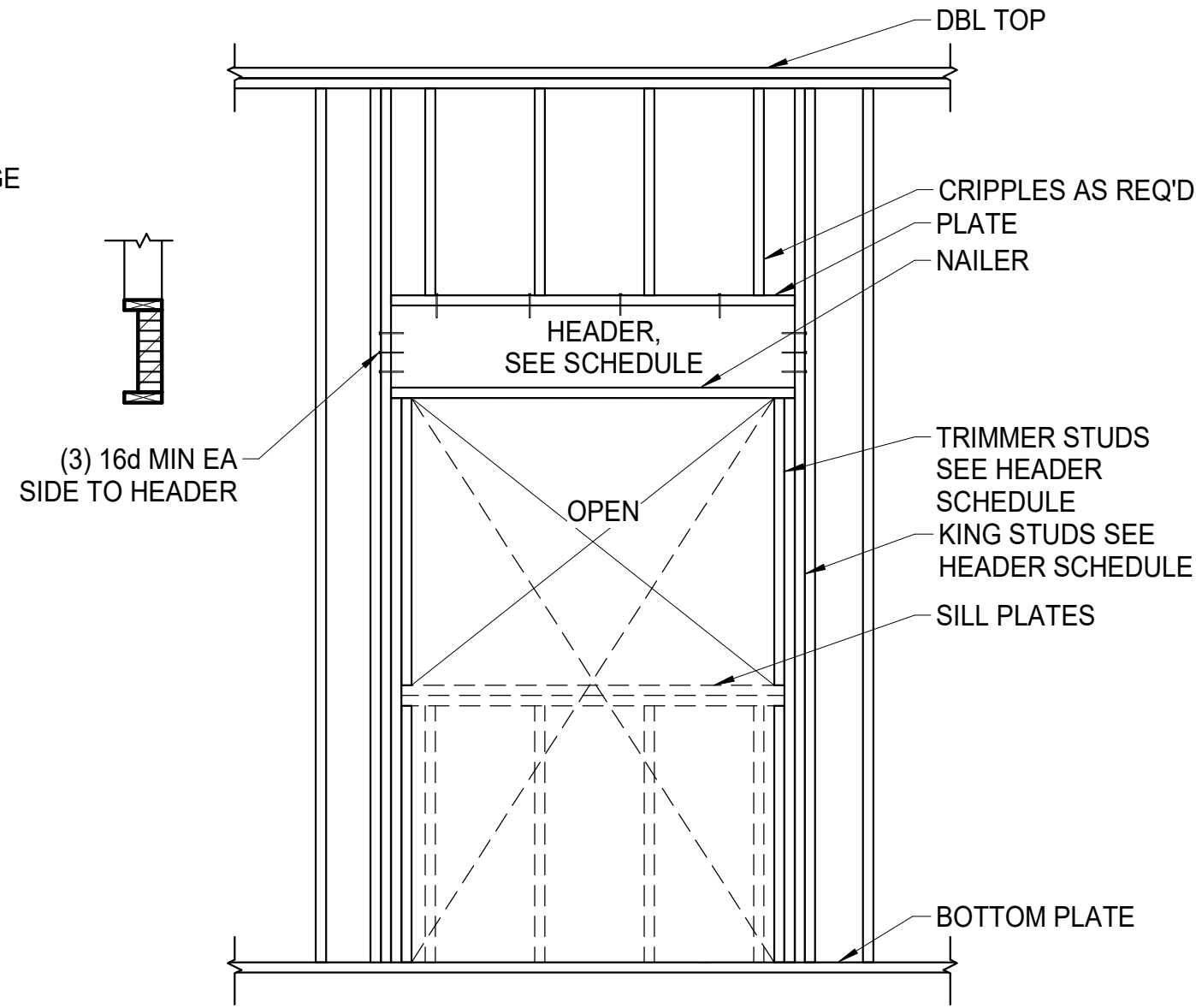
REVISIONS:

SHEET NO:  
**S201**

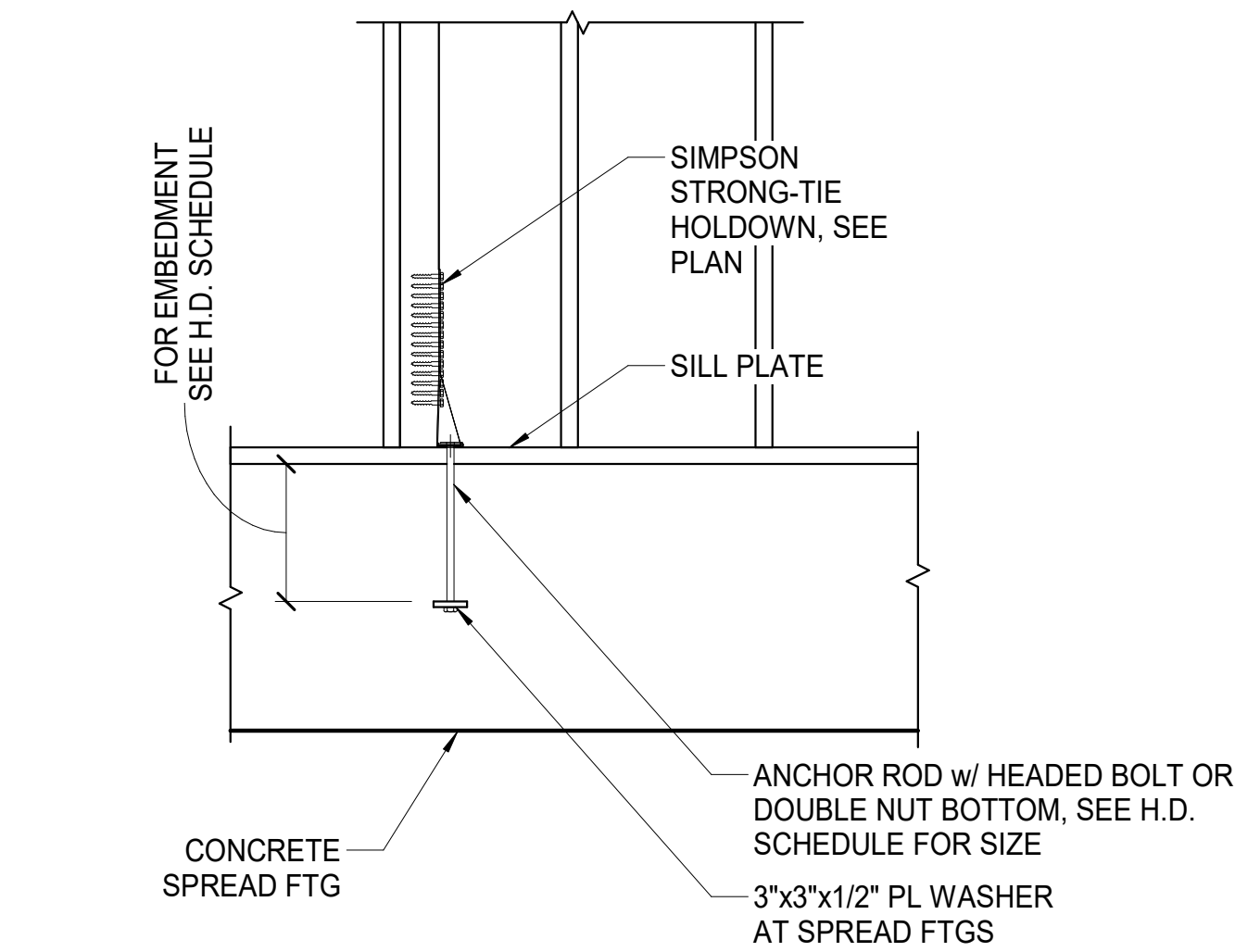
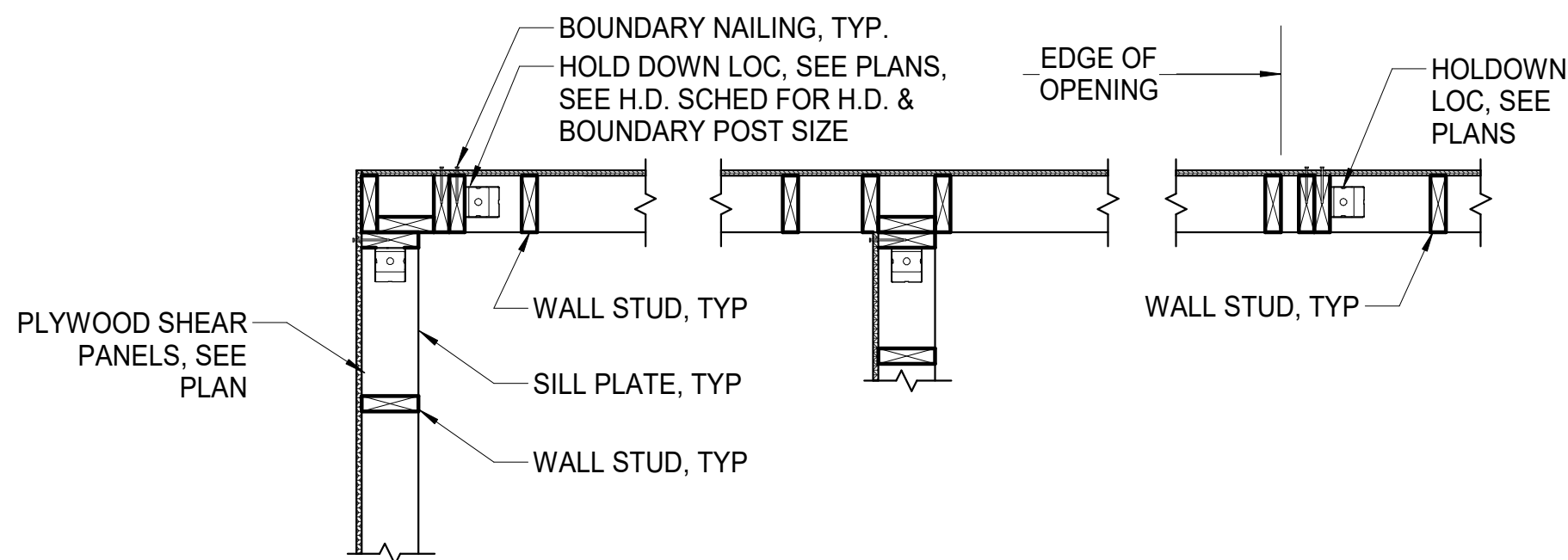
- NOTES:
- PANELS ARE SHOWN VERTICAL, BUT MAY BE PLACED HORIZONTAL.
  - MIN. EDGE DISTANCE FOR NAILS SHALL BE 3/8".
  - MIN. SHEATHING SHEET SIZE SHALL BE 2'-0"X4'-0".
  - NAILS SHALL NOT BE OVERDRIVEN.
  - NAILS SHALL BE COMMON WIRE TYPE OR APPROVED EQUAL.



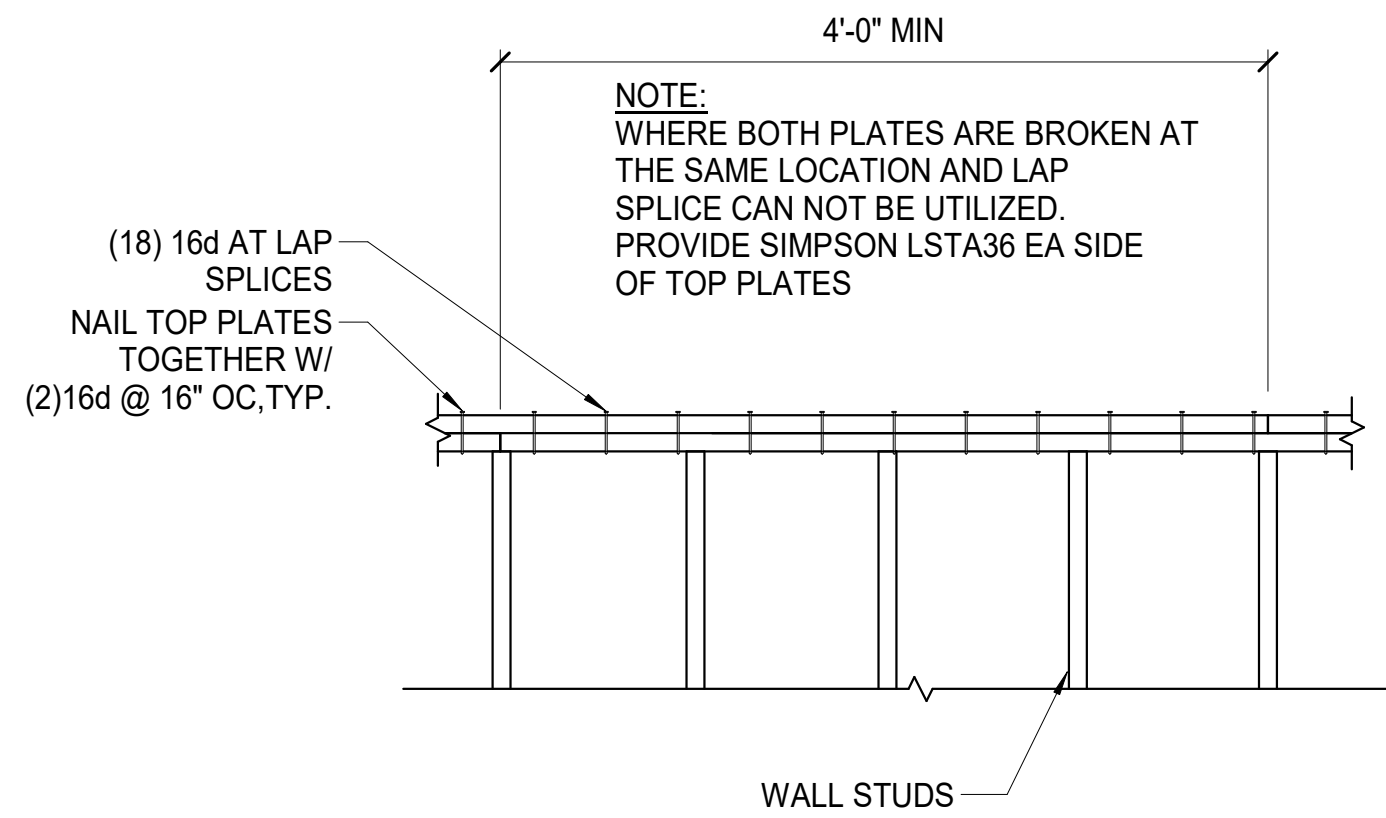
**1 SHEAR WALL NAILING DETAIL**  
SCALE: NTS



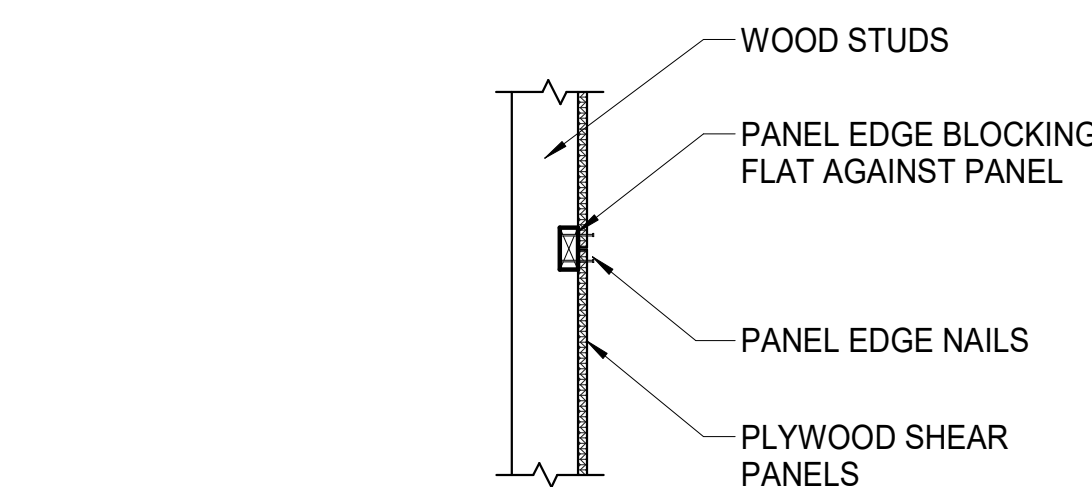
**2 TYPICAL HEADER DETAIL**  
SCALE: NTS



**3 TYPICAL HOLDOWN DETAILS**  
SCALE: NTS



**4 TYPICAL TOP PLATE SPLICE**  
SCALE: NTS



**5 PANEL EDGE BLOCKING**  
SCALE: NTS

**SHEAR WALL (SWi) SCHEDULE**

- NOTES:
- SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
  - WHERE SHEATHING IS REQUIRED ON BOTH FACES OF WALL AND NAIL SPACING IS LESS THAN 6" OC EACH FACE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR COMMON FRAMING MEMBER SHALL BE 3X OR THICKER AND NAILS ON EACH FACE SHALL BE STAGGERED.
  - WHERE 8d NAILS SPACED AT 2" OC OR WHERE 10d NAILS ARE SPACED AT 3" OC OR LESS, FRAMING MEMBER SHALL BE 3x OR THICKER AND NAILS SHALL BE STAGGERED.
  - (2) 2x STUDS STITCH-NAILED WITH (2) ROWS OF 16d NAILS AT 12" OC STAFFERED MAY BE SUBSTITUTED FOR 3x STUDS, BLOCKING OR SILL PLATES NOT AT FOUNDATION.
  - MAXIMUM STUD SPACING IS 16" OC.
  - ORIENT PANELS HORIZONTALLY OR VERTICALLY. ALL PANEL EDGES SHALL BE BACKED WITH 2x FRAMING (3x AS REQUIRED). BLOCK BETWEEN STUDS AT HORIZONTAL PANEL EDGES, UNO.
  - EDGE ATTACHMENT SPACING APPLIES TO ALL STUDS AT PANEL EDGES, TOP AND BOTTOM AND BLOCKING PANEL EDGES. LOCATE NAILS 3/8" MINIMUM FROM EDGES.
  - NAILS SHALL BE COMMON OR GALVANIZED (HOT DIPPED OR TUMBLED) BOX NAILS.
  - INSTALL 3"x3"x1/4" STEEL PLATE WASHERS AT ALL FOUNDATION ANCHORS. EDGE OF PLATE WASHER SHALL BE MIN 1/2" OF FACE OF STUD. WHERE BOTH FACES OF WALL ARE SHEATHED, STAGGER ANCHORS AND WASHERS AS REQ'D TO EITHER FACE OF STUD.

- KEYED NOTES:
- A. INSTALL 3x OR (2) 2x AT ALL SHEATHING PANEL JOINTS. FASTEN (2) 2x AT PANEL JOINTS TOGETHER WITH (2) 10d NAILS AT 4" OC, 2x4 FLAT BLOCKING IS PERMITTED.

MARK	SHEATHING MATERIAL AND ATTACHMENT			SILL PLATE AND ATTACHMENT			REMARKS	
	SHEATHING TYPE	MINIMUM SHEATHING THICKNESS	NUMBER OF FACES	EDGE ATTACHMENT	SILL PLATE	FOUNDATION ATTACHMENT		FRAMING ATTACHMENT
SW1	WSP	15/32"	1	10d NAILS AT 6" OC	2x	5/8" DIA ANCHORS AT 32" OC	(2) 16d NAILS AT 4" OC	NOTE A
SW2	WSP	15/32"	1	10d NAILS AT 4" OC	2x	5/8" DIA ANCHORS AT 32" OC	(2) 16d NAILS AT 4" OC	NOTE A
SW3	WSP	15/32"	2	10d NAILS AT 4" OC	2x	5/8" DIA ANCHORS AT 16" OC	(2) 16d NAILS AT 4" OC	NOTE A

**HOLDOWN (HDUi) SCHEDULE**

- NOTES:
- AT STRAP HOLDOWNS, SEE MFR'S SPECIFICATIONS FOR DEFINITION OF CLEAR SPAN DIMENSIONS.
  - SEE TYPICAL DETAILS FOR SHARED HOLDOWN CONNECTION AT INTERSECTING SHEAR WALLS.
  - HOLDOWNS INTO STEM WALLS SHALL HAVE HEADED CAST-IN-PLACE ANCHORS W/ MINIMUM 12" EMBEDMENT INTO SOLID GROUTED MASONRY.
  - ASTERISK \* DENOTES HOLDOWN LOCATED AT TRUSS GIRDER STUD. LOCATE BELOW TRUSS GIRDER AS REQUIRED.

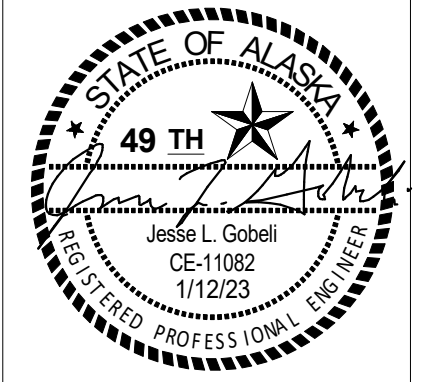
- KEYED NOTES:
- A. (2) 10d NAILS AT 4" OC.
- B. (2) ROWS OF 10d NAILS STAGGERED AT 2" OC.

MARK	HOLDOWN TYPE	CONNECTION TO STUDS	BUILT-UP STUD CONNECTION AT EACH PLY	CONNECTION AT FOUNDATION	REMARKS
HDU2*	SIMPSON HDU2-SDS2.5	(6) 1/4"x2 1/2" SDS SCREWS AT (2) 2x MEMBER	NOTE A	5/8" DIA THREADED ROD ANCHOR	ALLOWABLE CAPACITY = 3075 LB
HDU14	SIMPSON HDU14-SDS2.5	(36) 1/4"x2 1/2" SDS SCREWS AT 6x MEMBER	N/A	1" DIA THREADED ROD ANCHOR	ALLOWABLE CAPACITY = 14445 LB

**HEADER (Hi) SCHEDULE**

- NOTES:
- SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
  - COORDINATE OPENING LOCATIONS WITH ARCH AND MECHANICAL.

MARK	TYPE	HEADER	KING STUD	TRIMMER STUDS	REMARKS
H1	WOOD	(2) 2x8	2x6	2x6	MAX 4' - 6" OPENING
H2	GLB	3.5x11.875	(2) 2x6	2x6	MAX 10' - 0" OPENING

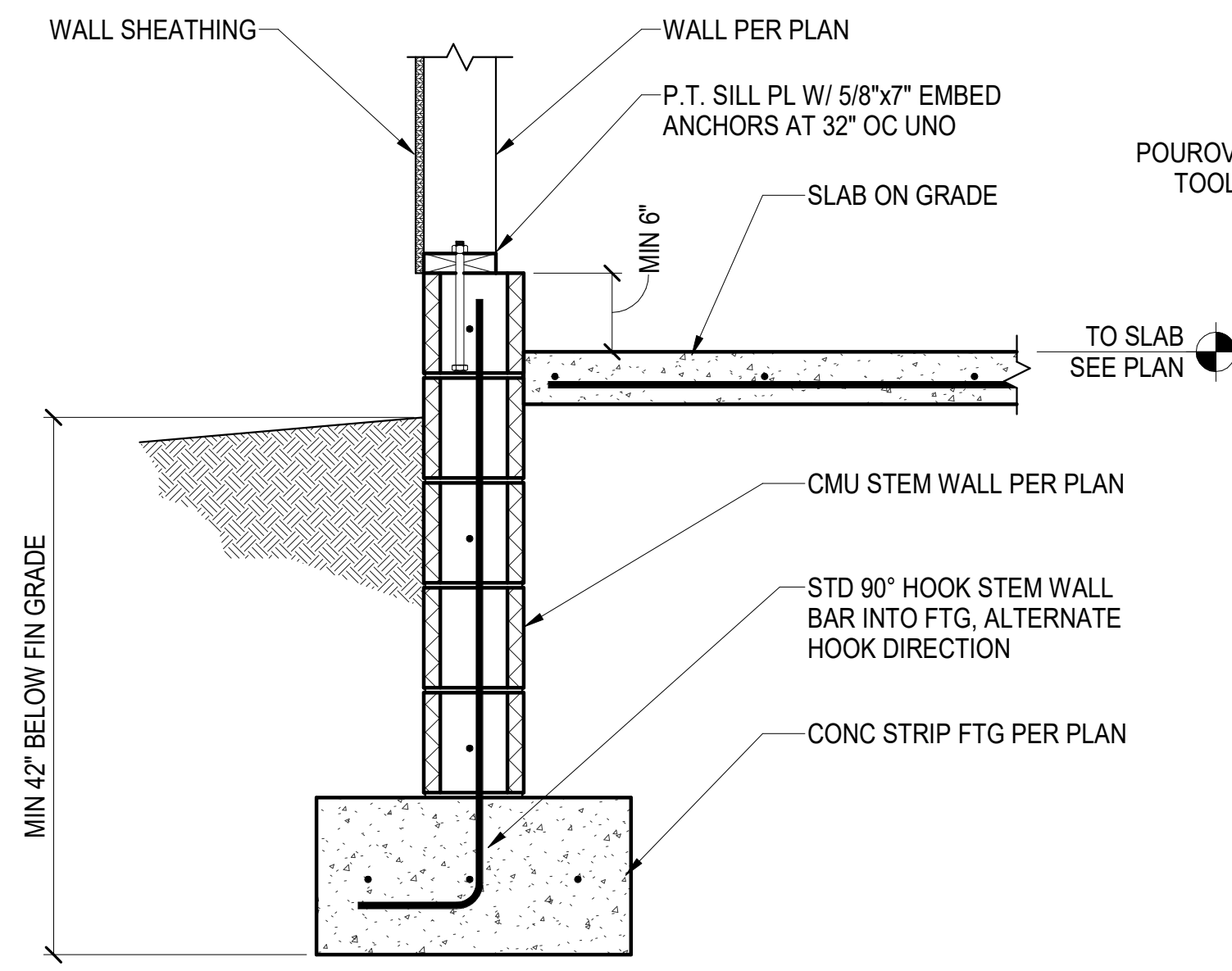


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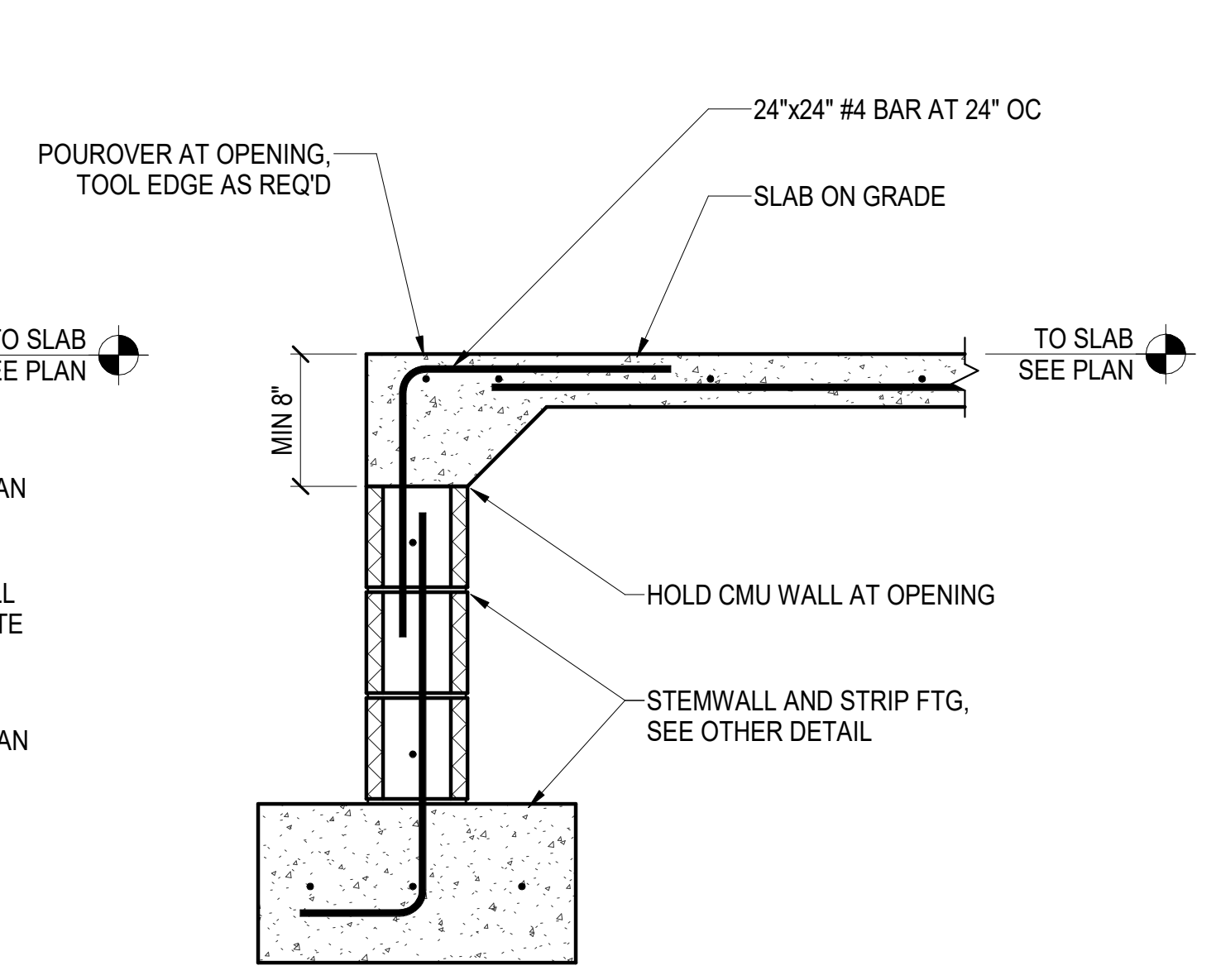


MUNICIPALITY OF ANCHORAGE  
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ANCHORAGE, ALASKA

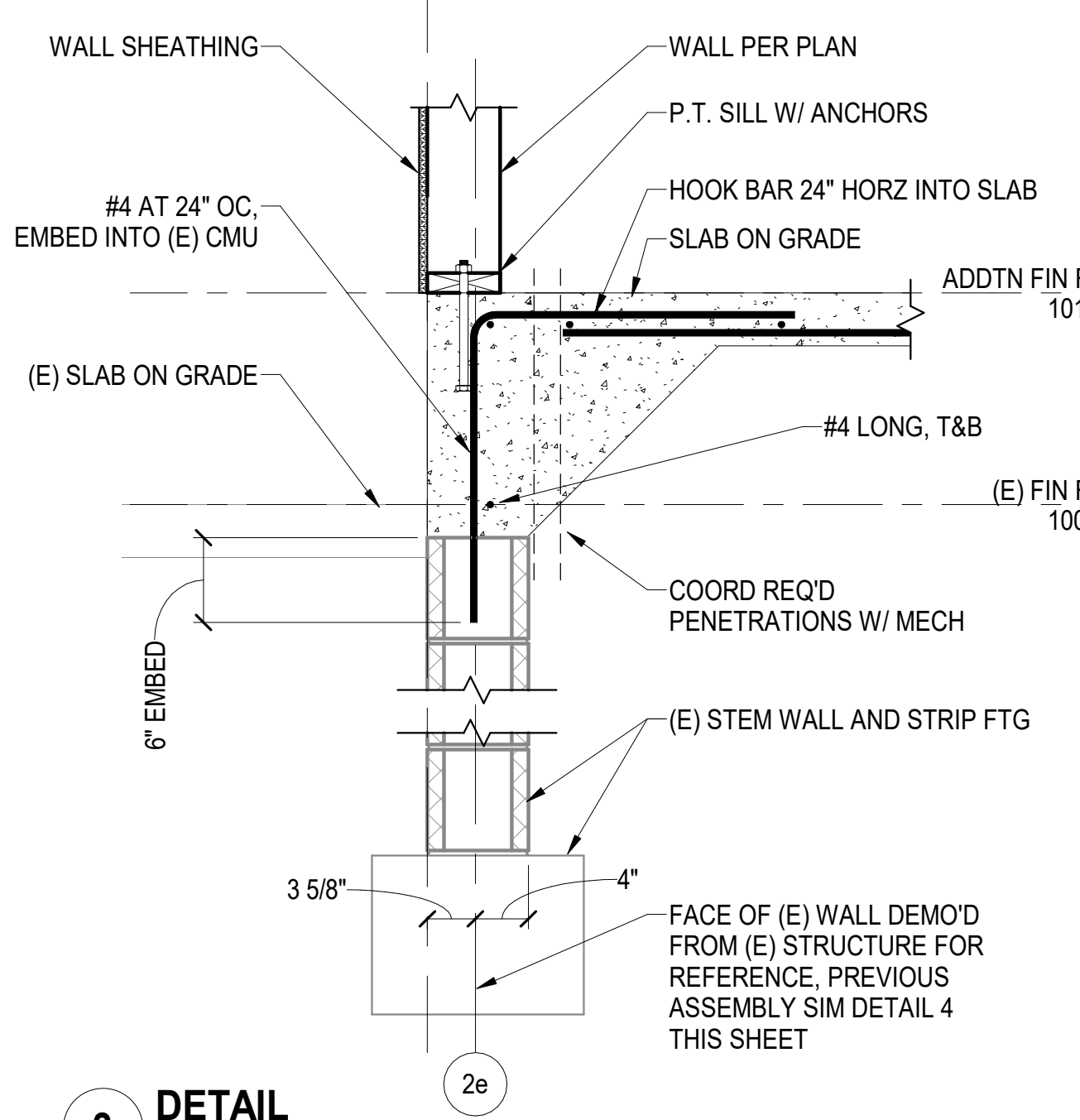
DATE: 1/12/23  
DRAWN: SP  
CHECKED: JG  
PROJECT: 74013.00  
DRAWING TITLE:  
TYPICAL WOOD FRAMING DETAILS AND SCHEDULES  
REVISIONS:  
SHEET NO:  
**S300**



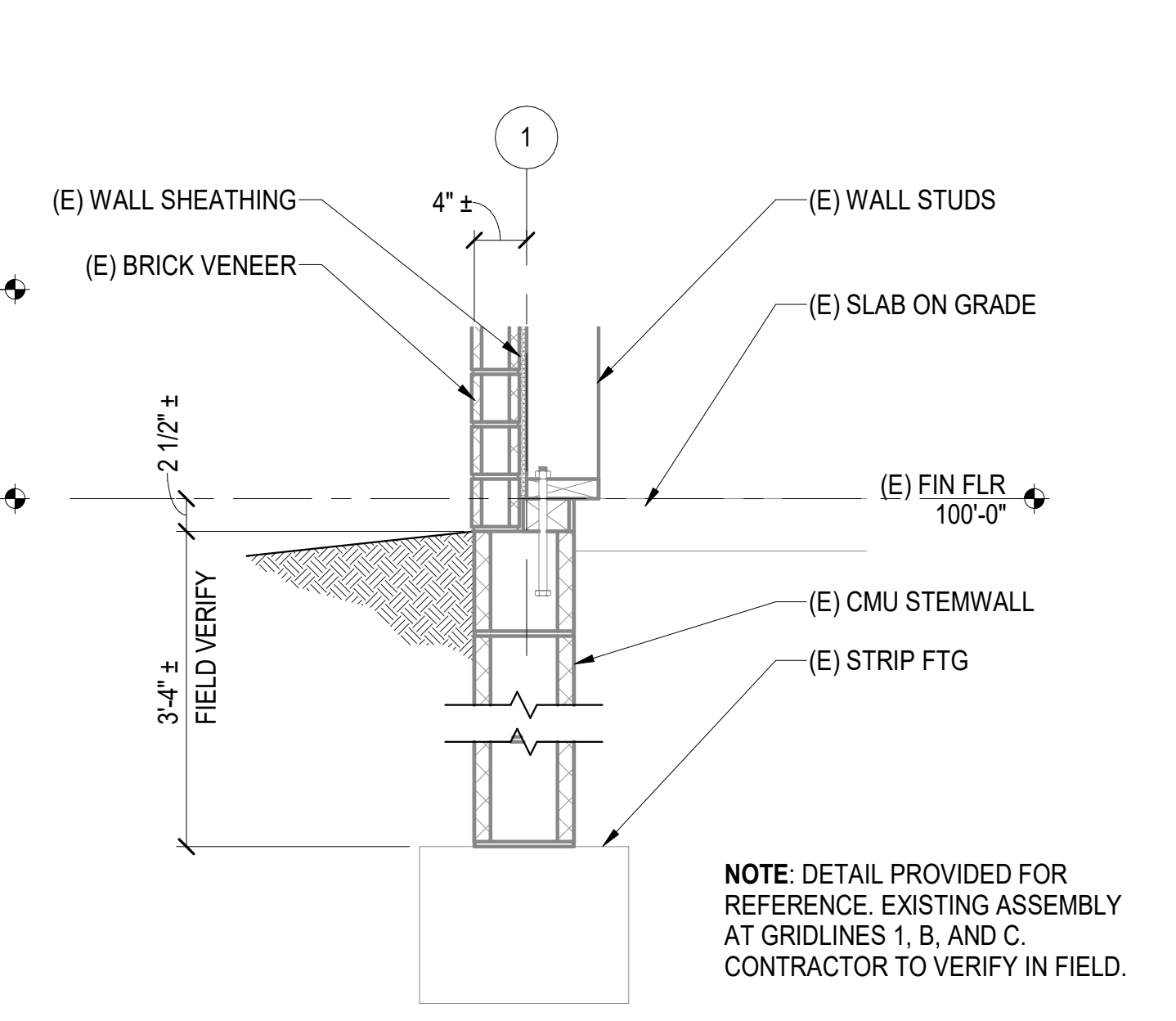
**1 TYP WALL DETAIL**  
SCALE: NTS



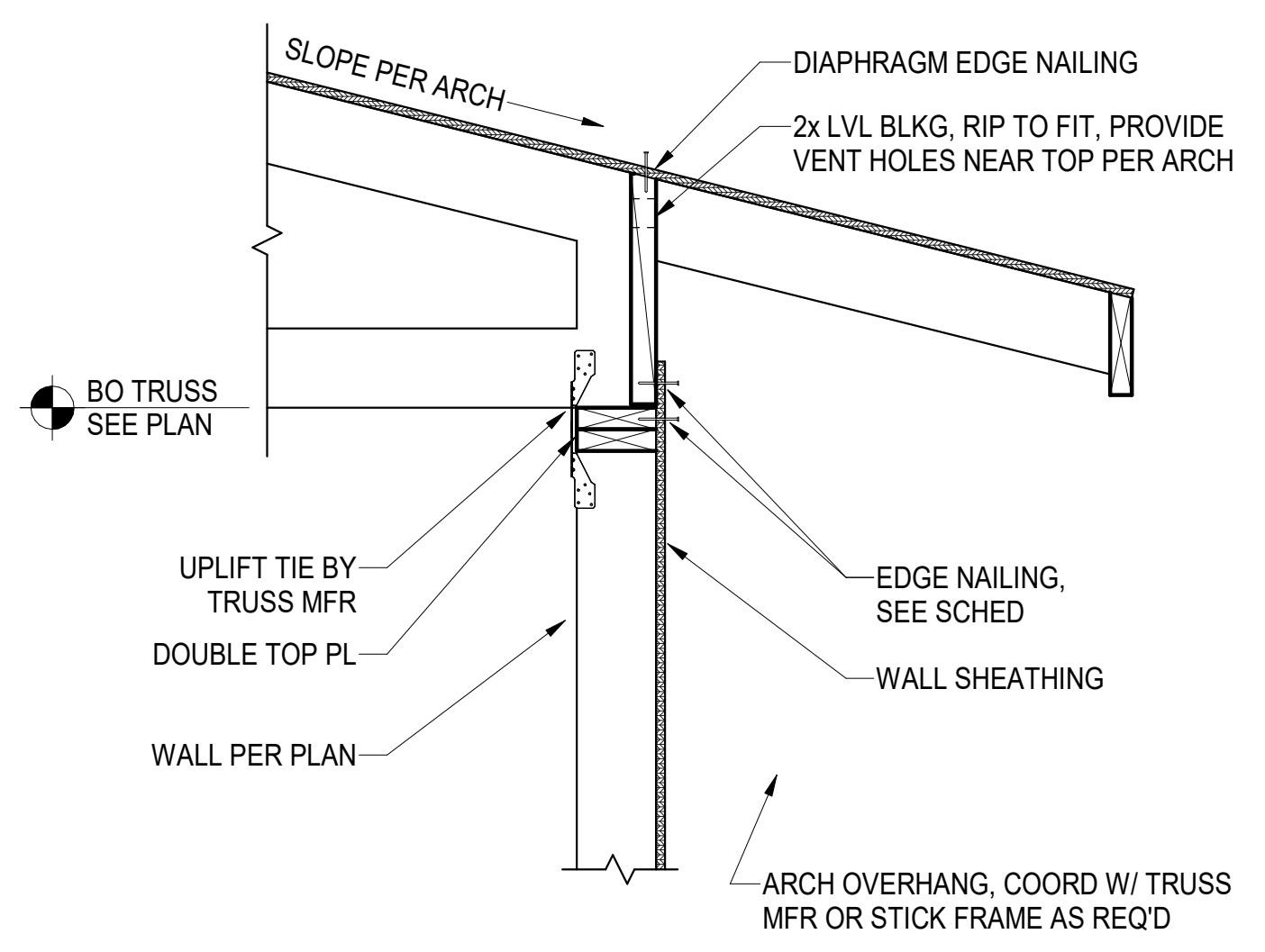
**2 WALL AT DOOR DETAIL**  
SCALE: NTS



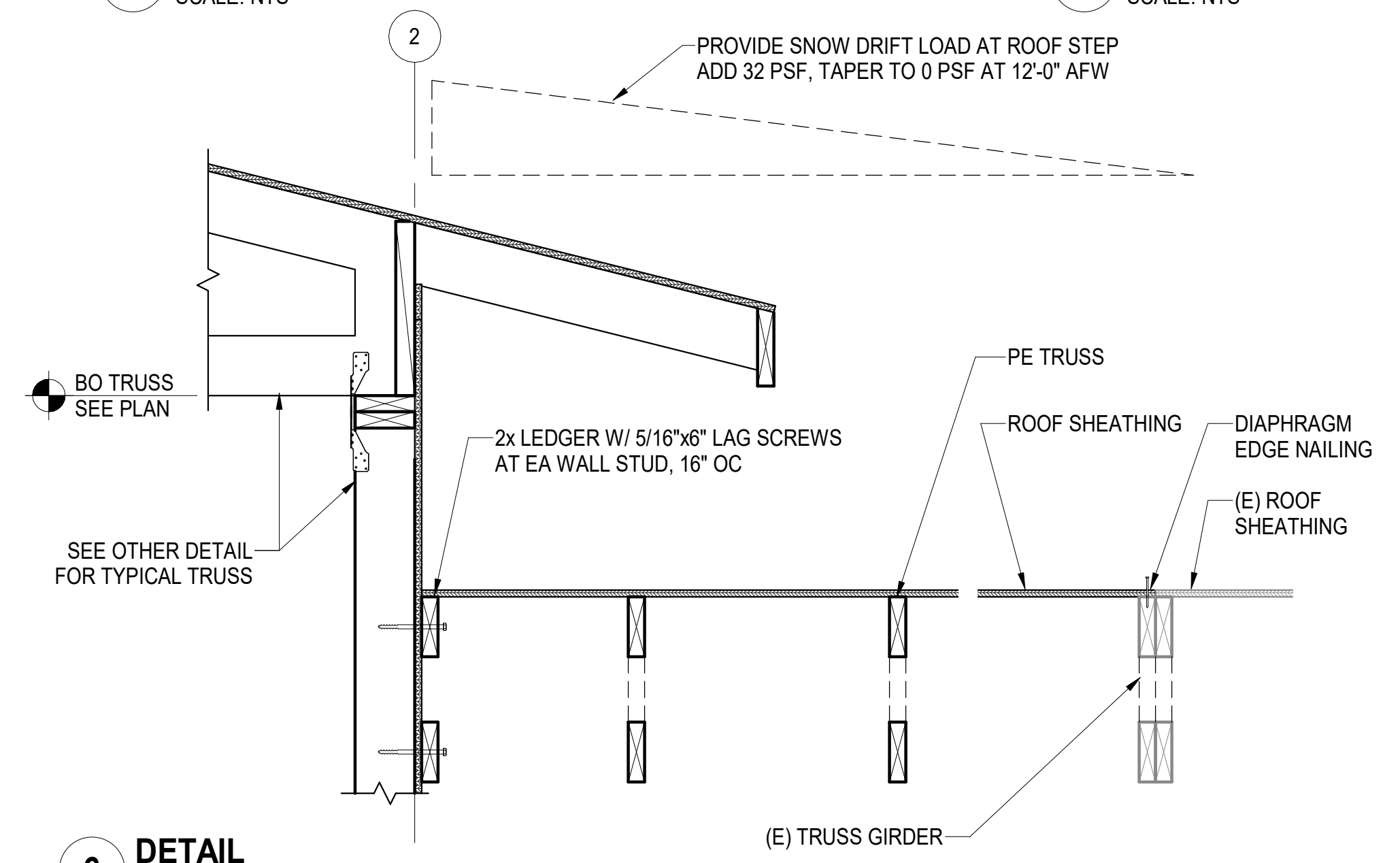
**3 DETAIL**  
SCALE: NTS



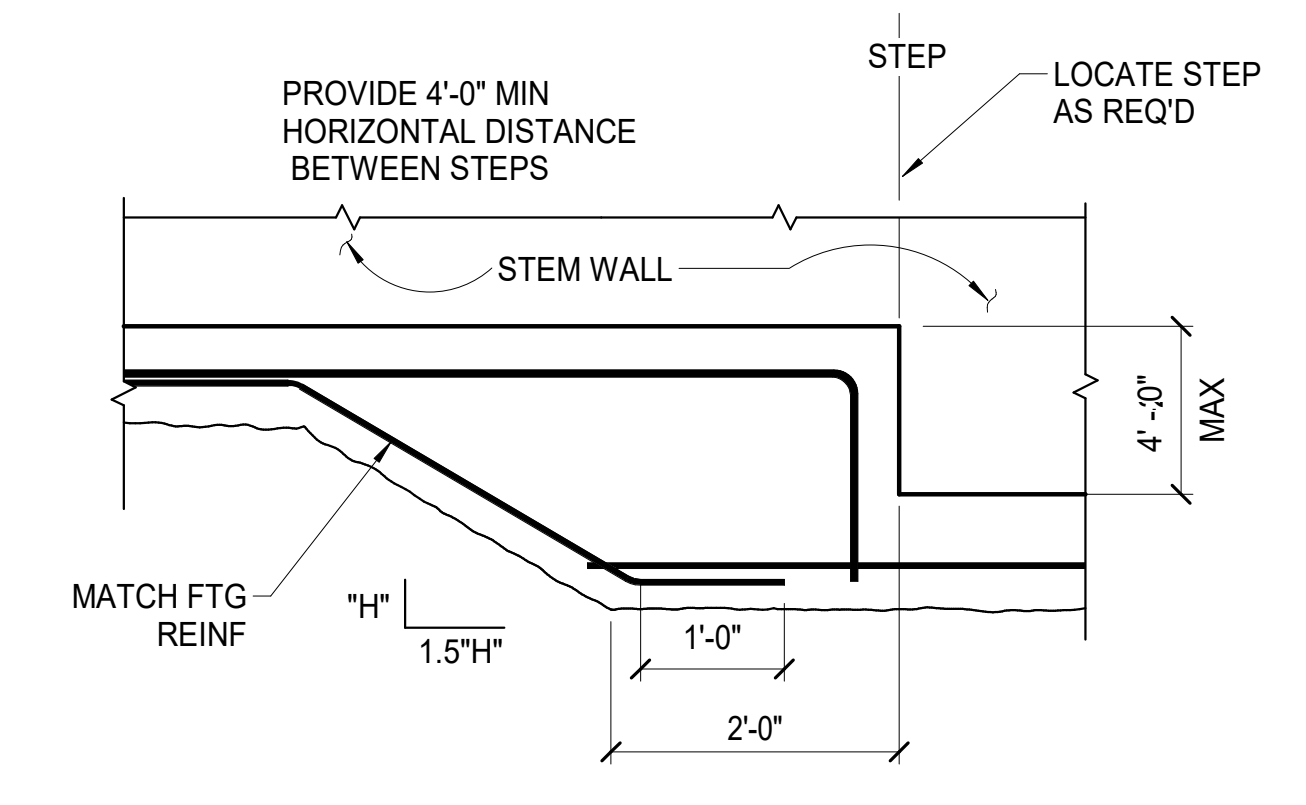
**4 DETAIL**  
SCALE: NTS



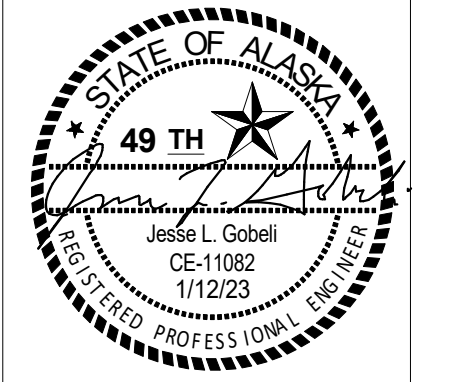
**5 TYP TRUSS DETAIL**  
SCALE: NTS



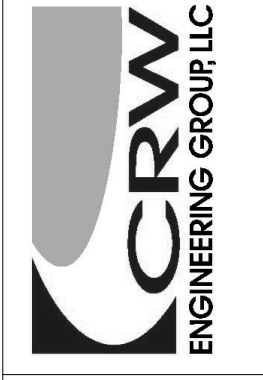
**6 DETAIL**  
SCALE: NTS



**7 STEP FTG DETAIL**  
SCALE: NTS



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	SP
CHECKED:	JG
PROJECT:	74013.00
DRAWING TITLE:	DETAILS
REVISIONS:	
SHEET NO:	<b>S400</b>

### PIPING LEGEND

	DENOTES DEMOLITION
	WASTE
	VENT PIPING
	COLD WATER
	SEE ABBREVIATIONS FOR MEDIA
	PIPE UP
	PIPE DOWN
	TEE UP
	TEE DOWN
	CAP
	UNION
	DIRECTION OF FLOW
	BALL VALVE
	GATE VALVE
	GAS SHUT-OFF VALVE
	CHECK VALVE
	BALANCE VALVE
	PRESSURE REDUCING VALVE
	HOSE BIBB
	PUMP
	CLEANOUT
	METER
	FILTER

### WHA SCHEDULE

SYMBOL	SIZE	FIXTURE UNITS
WHA-A	1/2"	1-11
WHA-B	3/4"	12-32
WHA-C	1"	33-60
WHA-D	1-1/4"	61-113
WHA-E	1-1/2"	114-154
WHA-F	2"	155-330

### ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	EXIST	EXISTING	OC	ON CENTER
ABV	ABOVE	EXH	EXHAUST	OD	OUTSIDE DAMPER
ADA	AMERICANS WITH DISABILITIES ACT GUIDELINES	F	FAHRENHEIT	P-X	PLUMBING FIXTURE DESIGNATOR
AD	ACCESS DOOR	FC	FORWARD CURVE	PD	PRESSURE DROP
AF	AIR FOIL	FIN	FINISHED	PG/P.G.	PROPYLENE GLYCOL
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	PH	PHASE
AFG	ABOVE FINISHED GRADE	FLR	FLOOR	PSI	POUNDS PER SQUARE INCH
AFMS	AIR FLOW MONITORING STATION	FPM	FEET PER MINUTE	PSIG	POUNDS PER SQUARE INCH GAUGE
AHAP	AS HIGH AS POSSIBLE	FT	FEET	R/A	RETURN AIR
AL	ALUMINUM	G	NATURAL GAS	RPM	REVOLUTIONS PER MINUTE
AMPS	AMPERES	GA	GAUGE	S/A	SUPPLY AIR
APD	AIR PRESSURE DROP	GAL	GALLONS	SCFM	STANDARD CUBIC FEET PER MINUTE
ARCH	ARCHITECTURAL	GALV	GALVANIZED	SP	STATIC PRESSURE
AS-X	AIR SEPARATOR DESIGNATOR	GPH	GALLONS PER HOUR	SQ	SQUARE
B-X	BOILER DESIGNATOR	GPM	GALLONS PER MINUTE	T/A	TRANSFER AIR
BDD	BACKDRAFT DAMPER	HD	HEAD	TEMP	TEMPERATURE
BLDG	BUILDING	HOA	HAND-OFF-AUTO	TOD	TOP OF DUCT
BOD	BOTTOM OF DUCT	HP	HORSEPOWER	TSP	TOTAL STATIC PRESSURE
BTUH	BRITISH THERMAL UNIT/HOUR	HW	HOT WATER	T'STAT	THERMOSTAT
CAP	CAPACITY	HWC	HOT WATER CIRCULATED	TTL	TOTAL
CFM	CUBIC FEET PER MINUTE	IBC	INTERNATIONAL BUILDING CODE	TYP/TYP.	TYPICAL
CIRC	CIRCULATING	IN	INCHES	UH-X	UNIT HEATER DESIGNATOR
CLG	CEILING	INS.	INSULATION	UPC	UNIFORM PLUMBING CODE
CONT	CONTINUED	LAT	LEAVING AIR TEMPERATURE	V	VENT
C.O./CO	CLEANOUT	LAV	LAVATORY	VAC	VOLT-AC
CONN	CONNECTION	LF	LINEAL FEET	VEL	VELOCITY
CU	COPPER	MAX	MAXIMUM	VDC	VOLT-DC
CW	COLD WATER	MBH	THOUSAND BTUH	VTR	VENT THRU ROOF
dB	DECIBELS	MCA	MINIMUM CIRCUIT AMPACITY	W	WASTE
DEG	DEGREE	MFG	MANUFACTURER	W/	WITH
DIA	DIAMETER	M/A	MAKEUP AIR	W/O	WITHOUT
DIM	DIMENSION	MIN/MIN.	MINIMUM	W.C.	WATER COLUMN
DN	DOWN	MOD	MOTOR OPERATED DAMPER	WCO	WALL CLEAN OUT
DWG	DRAWING	MTD	MOUNTED	WG	WATER GAUGE
E/A	EXHAUST AIR	NAT.	NATURAL	WHA	WATER HAMMER ARRESTOR
EAT	ENTERING AIR TEMPERATURE	NC	NOISE CRITERIA	WPD	WATER PRESSURE DROP
EFF	EFFICIENCY	N.C.	NORMALLY CLOSED	YCO	YARD CLEAN OUT
EF-X	EXHAUST FAN DESIGNATOR	NO.	NUMBER		
ENT	ENTERING	N.O.	NORMALLY OPEN		
ESP	EXTERNAL STATIC PRESSURE	NTS	NOT TO SCALE		
ET-X	EXPANSION TANK DESIGNATOR	O/A	OUTSIDE AIR		
		O.D.	OUTSIDE DIAMETER		

### LOGIC

	POINT OF CONNECTION
	DETAIL NUMBER
	SHEET LOCATED ON
	DIRECTION OF VIEW
	SECTION NUMBER
	SHEET LOCATED ON
	SHEET NOTES
	CONNECTION
	NECK SIZE
	CFM
	DIFFUSER OR GRILLE TYPE

### DUCTWORK LEGEND

	THERMOSTAT		MOTORIZED CONTROL DAMPER		DUCT SIZE - EXTERIOR INSULATED (1ST FIGURE-SIDE SHOWN) (2ND FIGURE-SIDE NOT SHOWN)
	TIMER SWITCH		SOUND LINED DUCTWORK		TURNING VANES
	SUPPLY AIR UP & DOWN		EXTERNALLY INSULATED DUCTWORK		
	RETURN AIR UP & DOWN				
	EXHAUST AIR UP & DOWN				

### PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	BASIS OF DESIGN	BASIC MODEL	COLOR/FINISH	REMARKS
HB-1	HOSE BIBB	WALL	3/4"	--	--	--	--	WOODFORD	B65	--	AUTO DRAINING, FREEZELESS WITH ANTI-SIPHON VALVE, ANODIZED ALUMINUM FINISH.

### GAS FIRED UNIT HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FUEL	MBH INPUT	GROSS OUTPUT MBH	CFM	MOTOR DATA HP	POWER VOLTS HZ PH	REMARKS
UH-1	MODINE	HD-45	NG	45	36,900	720	1/15	115 60 1	PROVIDE WITH 30-DEGREE DEFLECTOR HOOD, VIBRATION ISOLATION KIT, SINGLE STAGE ROOM THERMOSTAT.

### FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	SERVICE	CFM	TSP IN. W.C.	RPM	MOTOR DATA HP	POWER VOLTS HZ PH	DRIVE	SONES	REMARKS
EF-1	GREENHECK	SQ 90-VG	INLINE	GARAGE	450	.375	1550	1/4	115 60 1	DIRECT	7.4	ECM MOTOR WITH UNIT MOUNTED SPEED CONTROLLER AND WALL TIMER SWITCH.

### LOUVER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	MATERIAL	FINISH	SIZE (IN.)	REMARKS
L-1	RUSKIN	ELF6375X	GARAGE/STORAGE 106	ALUMINUM	PER ARCH	24"x18"	HORIZONTAL DRAINABLE BLADES, 3/4" BIRDSCREEN.
L-2	RUSKIN	ELF6375X	GARAGE/STORAGE 106	ALUMINUM	PER ARCH	24"x18"	HORIZONTAL DRAINABLE BLADES, 3/4" BIRDSCREEN.



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23  
DRAWN: PDO  
CHECKED: MRF/BPP  
PROJECT: M1236  
DRAWING TITLE:  
MECHANICAL LEGEND  
AND ABBREVIATIONS  
REVISIONS:  
SHEET NO:

**M001**



**SECTION 22 05 00: 23 05 00 - COMMON WORK RESULTS FOR MECHANICAL**

PLANS - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. CONTRACTOR IS TO COORDINATE PIPING, DUCTWORK, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS TO AVOID CONFLICTS. CODES, ORDINANCES, REGULATIONS, STANDARDS, OR MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH PHASING PLAN TO PERFORM COORDINATED WORK IN SEQUENCE WITH OTHER TRADES. MAINTAIN CODE MINIMUM MECHANICAL SERVICE TO ALL AREAS IMPACTED BY WORK WHERE STILL OCCUPIED BY THE OWNER.

STANDARDS, CODES, AND REGULATIONS - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FIRE CODE (IFC), UNIFORM PLUMBING CODE (UPC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AND NATIONAL ELECTRIC CODE (NEC) AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

ELECTRICAL WORK - ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN AND IN ACCORDANCE WITH NEC STANDARDS.

PERMITS - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

SUBMITTALS - SUBMITTALS SHALL BE IN ELECTRONIC FORM. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION. SUBMIT ON ALL SCHEDULED EQUIPMENT AND ALL MATERIALS AND EQUIPMENT AS NOTED IN THE SPECIFICATIONS.

EQUIPMENT SUBSTITUTIONS - ALL EQUIPMENT LISTED AND SCHEDULED ARE REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. "OR EQUAL" SUBSTITUTIONS WILL BE CONSIDERED IF SUBSTITUTE DATA SHEETS ARE SUBMITTED AND ARE SHOWN TO BE OF EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, SIZE, AND WEIGHT. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL SUBSTITUTIONS.

WARRANTY - ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM PROJECT COMPLETION AND OWNER ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE WARRANTY PERIOD.

OPERATION AND MAINTENANCE MANUAL - PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL. TO INCLUDE DATA CUTSHEETS MARKED WITH THE SPECIFIC ITEM USED, MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, RECORD DRAWINGS WITH INSTALLED LOCATIONS NOTED, SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE. OPERATION AND MAINTENANCE MANUAL SHALL BE IN ELECTRONIC FORM AND SHALL BE SUBMITTED FOR REVIEW. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION.

RECORD DRAWINGS - PROVIDE ACCURATE PROJECT RECORD DRAWINGS, SHOWN IN RED INK ON A CLEAN SET OF PRINTS. SHOWING ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING INSTALLATION OF THE WORK. SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL MECHANICAL WORK THAT IS PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN. SUBMIT ORIGINAL COPY TO OWNER AT THE COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION INSPECTION. PROVIDE ELECTRONIC COPY OF UPDATED CONTROLS SHOP DRAWINGS INCLUDING PLANS, PANEL WIRING DIAGRAMS, AND SEQUENCES OF OPERATIONS TO ACCURATELY REFLECT INSTALLED CONDITIONS.

SEISMIC RESTRAINT - ALL PIPING, DUCTWORK, AND EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE SEISMICALLY RATED AND RESTRAINED FOR A SEISMIC EVENT IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE IBC AND ASCE 7 AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. THE CONTRACTOR SHALL PROVIDE A DEFERRED SUBMITTAL FOR REVIEW TO THE MUNICIPALITY OF ANCHORAGE PLAN REVIEW DEPARTMENT FOR SEISMIC RESTRAINT DESIGN WITH CALCULATIONS AND SHOP DRAWINGS. SEISMIC RESTRAINT CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE A STRUCTURAL ENGINEERS STAMP AND SIGNATURE PRIOR TO INSTALLATION. SEISMIC CATEGORY D, COMPONENT IMPORTANCE FACTOR IP-1.0.

MATERIALS - ALL MATERIALS OTHER THAN OWNER SUPPLIED MATERIALS SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN PROJECT MANAGER'S AND ENGINEER'S APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

ACCESS - PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT. PROVIDE ACCESS PANELS OR ACCESS DOORS FOR ALL EQUIPMENT INSTALLED IN CONCEALED LOCATIONS.

EQUIPMENT INSTALLATION - INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS, AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS.

DEMOLITION DRAWINGS ARE BASED ON AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. REPORT DISCREPANCIES TO OWNER BEFORE DISTURBING THE EXISTING INSTALLATION. DISABLE SYSTEMS ONLY TO MAKE SWITCH OVERS AND CONNECTIONS. COORDINATE WITH PHASING PLAN TO PERFORM WORK IN SEQUENCE WITH OTHER TRADES AND MAINTAIN CODE MINIMUM MECHANICAL SERVICE CLEARANCES TO ALL AREAS IMPACTED BY WORK AND STILL OCCUPIED. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS PRIOR TO PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREAS. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS. REMOVE, RELOCATE, AND/OR EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTIONS. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED PIPING, DUCTWORK, INSULATION, HANGERS AND SUPPORTS, CONTROLS AND CONTROL WIRING, AND ANY OTHER ABANDONED MECHANICAL EQUIPMENT. THIS INCLUDES ABANDONED EQUIPMENT ABOVE ACCESSIBLE CEILING FINISHES. WHERE ABANDONED PIPE ENTERS EXISTING SURFACES TO REMAIN, CUT PIPE FLUSH WITH WALLS, AND FLOORS, CAP/PLUG PIPE AND PATCH SURFACES. DEMOLISH ALL DOMESTIC WATER PIPING BACK TO MAINS AND CAP. LEAVE NO DEAD LEGS. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND REMODEL WORK. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHICH REMAIN ACTIVE.

**SECTION 22 05 29: 23 05 29 - HANGERS & SUPPORTS FOR PIPING & EQUIPMENT**

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
  - 1. PIPE HANGERS AND SUPPORTS
    - 1. HANGERS FOR PIPES 1/2" TO 1-1/2" - MALLEABLE IRON OR CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING FOR STEEL PIPE, COPPER SWIVEL FOR COPPER PIPE.
    - 2. MULTIPLE OR TRAPEZE HANGERS - STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS.
    - 3. WALL SUPPORTS FOR PIPES 1/2" TO 3" - CAST IRON HOOK.
- C. INSTALLATION
  - 1. DESIGNED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE (UPC) FOR WATER PIPING.
  - 2. INSTALL HVAC PIPE HANGERS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) AND ANSI/MSS-SP-69 AND 89.
  - 3. INSTALLED AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE SEISMIC SUPPORT FOR ALL PIPING AND EQUIPMENT IN ACCORDANCE WITH IBC.

**SECTION 22 05 53: 23 05 53 - IDENTIFICATION FOR PIPING AND EQUIPMENT**

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
  - 1. COLORING SCHEME IN ACCORDANCE WITH ANSI A13.1, SETON OPTI-CODE OR EQUAL.
- C. INSTALLATION:
  - 1. LABEL ALL EQUIPMENT WITH HEAT RESISTANT LAMINATED PLASTIC LABELS HAVING ENGRAVED LETTERING 1/2" HIGH.
  - 2. IDENTIFY PIPING AND DUCTWORK TO INDICATE CONTENTS AND FLOW DIRECTION USING PIPE MARKERS OR BY A LABELED SLEEVES IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH ROOM AND AT INTERVALS OF NOT MORE THAN 20' APART AND ON EACH SIDE OF PARTITION PENETRATIONS.

**SECTION 22 07 00: 23 07 00 - INSULATION**

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
  - 1. PIPING INSULATION - GLASS FIBER, RIGID, MOLDED, NON-COMBUSTIBLE INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.24 AT 75 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL; JOHNS MANVILLE "MICRO-LOK" OR EQUAL. COMPLETE WITH VAPOR BARRIER JACKET AND PLASTIC COVERS FOR FITTINGS.
  - 2. INTERIOR DUCTWORK INSULATION - FSK DUCT WRAP; FLEXIBLE GLASS FIBER; ANSI/ASTM C553; COMMERCIAL GRADE; 'K' VALUE OF 0.27 AT 75 DEG F. JOHNS MANVILLE "800 SERIES SPIN-GLAS" OR EQUAL.
  - 3. PVC JACKETING - ONE PIECE FITTING COVERS AND JACKETING MATERIALS, PRE-MOLDED TYPE. JOHNS MANVILLE "ZESTON 2000" OR APPROVED EQUAL. JOHNS MANVILLE "PERMA-WELD" SOLVENT WELDING ADHESIVE.
- C. INSTALLATION
  - 1. PIPING
    - 1. INSULATE ALL DOMESTIC WATER PIPING WITH PRE-FORMED FIBERGLASS INSULATION, COMPLETE WITH FACTORY VAPOR BARRIER AND PVC JACKETING FOR FITTINGS. PVC JACKETING TO BE PROVIDED FOR ALL PIPING BELOW 10' AFF IN FINISHED SPACES OR IN MECHANICAL ROOMS.
      - 1. INSULATE ALL DOMESTIC COLD WATER PIPING SIZE 1-1/4" AND SMALLER WITH 1/2" INSULATION, SIZE 1-1/2" AND LARGER WITH 1" INSULATION.
  - 2. DUCTWORK
    - 1. PROVIDE 1" FIBERGLASS INSULATION ON ALL EXHAUST AND RELIEF DUCTWORK WITHIN 5' OF EXTERIOR OPENINGS.
  - 3. INSTALL ALL INSULATION MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE BUILDING CODES AND INDUSTRY STANDARDS.

**SECTION 22 10 00 - PLUMBING PIPING**

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.
- B. MATERIALS:
  - 1. DOMESTIC WATER PIPING,
    - 1. COPPER TUBING - ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ASME B16.18 CAST BRONZE OR ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE FLUX OR VIEGA PRO PRESS, OR APPROVED EQUAL.
    - 2. POLYPROPYLENE PIPING - SDR 11, IN ACCORDANCE WITH ASTM F2389. NSF 14 & 61 LISTED. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM A BETA CRYSTALLINE PP-RCT RESIN MEETING THE SHORT-TERM PROPERTIES AND LONG-TERM STRENGTH REQUIREMENTS OF ASTM F 2389 AND CSA B137.11. PIPING SHALL BE EXTRUDED WITH A MIDDLE LAYER THAT HAS GLASS FIBER CONTENT TO RESTRICT THERMAL EXPANSION. ELECTRO-FUSION FITTINGS. AQUATHERM "GREEN PIPE", NUPI NIRON "CLIMA PIPE", OR APPROVED EQUAL.
  - 2. BALL VALVES:
    - 1. SIZES 2" AND SMALLER - LEAD FREE BRONZE TWO-PIECE BODY, FULL PORT, FORGED LEAD FREE BRASS BALL, TEFLON SEATS AND ADJUSTABLE PACKING, LEVER HANDLE. SOLDER, THREADED, OR PRESS-FIT ENDS.
  - 3. DIELECTRIC CONNECTIONS - IAPMO/UPC LISTED, STEEL-TO-PLASTIC DIELECTRIC WATERWAY DESIGN. THERMOPLASTIC-LINED STEEL NIPPLE WITH EXTERNAL ELECTRICAL CONTINUITY. RATED FOR CONTINUOUS USE AT TEMPERATURES UP TO 225°F AND FOR PRESSURES UP TO 300 PSI. DIELECTRIC UNIONS ARE NOT PERMITTED.
  - 4. WATER HAMMER ARRESTORS - BARREL-FABRICATED OF TYPE "L" HARD DRAWN COPPER WITH CAP OF COPPER OR FREE TURNING BRASS. INTERIOR PISTON MACHINED OF LOW LEAD C69300 ECO BRASS OR POLY-CARBONATE DOW CALIBRE 2061-15 MFR. O-RING SEALS OF EPDM WITH DOW-CORNING SILICON COMPOUND #111 SEAL LUBRICANT FDA LISTED FOR USE IN POTABLE WATER SYSTEMS. TEMPERATURE RANGE: 32°F TO 212°F. OPERATING PRESSURE: DESIGNED TO OPERATE ON ALL DOMESTIC AND COMMERCIAL SYSTEMS. NORMAL OPERATING PRESSURE 0 TO 200 P.S.I.G., MAX SPIKE PRESSURE 400 P.S.I.G. PRECISION PLUMBING PRODUCTS (PPP) MODELS 'SC-500A THROUGH SC-2000F' OR EQUAL.
- C. INSTALLATION
  - 1. ALL NEW PORTIONS OF THE DOMESTIC WATER PIPING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 609 OF THE UPC.
  - 2. TEST ALL NEW PORTIONS OF PIPING IN ACCORDANCE WITH THE UPC.
  - 3. INSTALL ALL PIPING IN CRAFTSMANSHIP LIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.
  - 4. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
  - 5. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
  - 6. INSTALL BALL VALVES FOR SHUT-OFF TO ISOLATE EQUIPMENT.
  - 7. PROVIDE 3/4" DRAIN VALVES AT EQUIPMENT AND PIPING LOW POINTS FOR DRAINING OF SYSTEM.
  - 8. NO ABS PIPING SHALL BE INSTALLED OR ROUTED THROUGH PLENUMS.
  - 9. NO POLYPROPYLENE PIPING SHALL BE INSTALLED OR ROUTED THROUGH PLENUMS.

**SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR HVAC**

- A. SUBMITTALS: SUBMIT QUALIFICATIONS, NEBB CERTIFICATIONS OR 5 YEARS DOCUMENTED PROJECT EXPERIENCE OF SIMILAR OR GREATER MAGNITUDE, EQUIPMENT CALIBRATIONS, PRELIMINARY AND FINAL BALANCING REPORTS.
- B. MATERIALS:
  - 1. BALANCING INSTRUMENTS AS NECESSARY TO COMPLETE WORK TO MEASURE AT LEAST THE FOLLOWING: AIR VELOCITY, STATIC PRESSURE, RPM, TEMPERATURE, AND FLOW.
- C. EXECUTION:
  - 1. AIRFLOWS ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS, PER AMERICAN AIR BALANCING COUNCIL (AABC) RECOMMENDED METHODS.

**SECTION 23 09 00 - INSTRUMENTATION AND CONTROL FOR HVAC**

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
  - 1. TIMER SWITCH:
    - 1. DIGITAL TIMER SWITCH WITH ADJUSTABLE TIME SETPOINT, MANUAL START WITH TIMED STOP, MANUAL STOP, AND LCD BACKLIT TIME INDICATION. WATTSTOPPER TS-400 OR EQUAL.
  - 2. THERMOSTATS:
    - 1. LOW-VOLTAGE NON-PROGRAMMABLE THERMOSTATS - FAHRENHEIT SCALE, SINGLE TEMPERATURE, GRADUAL-ACTING, ADJUSTABLE SENSITIVITY, EXPOSED SET POINT ADJUSTMENT, SET POINT INDICATION, WITH THERMOMETER. DIFFERENTIAL NOT TO EXCEED 2.7 DEGREES F WITH MINIMUM 11.7 DEGREES F SET POINT ADJUSTMENT.
  - 3. ACTUATORS:
    - 1. SPRING RETURN ACTUATOR TO SPRING CLOSED, POWER OPEN. 120V. BELIMO OR EQUAL.

- C. INSTALLATION:
  - 1. ALL DEVICES SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS.
  - 2. ALL WIRING SHALL BE PER THE NEC. PROVIDE PROPER GROUNDING OF ALL CONTROL WIRING.
  - 3. ALL CONTROLLERS, TRANSMITTERS, SWITCHES, THERMOSTATS, GAUGES, AND DEVICES WITH ADJUSTABLE SETPOINTS SHALL BE PERMANENTLY TAGGED WITH IDENTIFICATION COORDINATED WITH THE CONTROL DRAWINGS.

**SECTION 23 11 23 - FACILITY NATURAL GAS PIPING**

- A. SUBMITTALS: SUBMIT ON PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.
- B. MATERIALS:
  - 1. ABOVE GRADE PIPING - STEEL PIPE, ASTM A53, SCHEDULE 40 BLACK. FITTINGS: ANSI/ASME B16.3, MALLEABLE IRON, OR ASTM A234, STEEL WELDING TYPE. JOINTS: VEIGA MEGAPRESS-G OR SCREWED FOR PIPE 2" AND SMALLER AND IF LOW PRESSURE.
  - 2. GAS COCKS:
    - 1. SIZES 2" AND SMALLER - BRONZE BODY, BRONZE TAPERED PLUG, NON-LUBRICATED, TEFLON PACKING, THREADED OR PRESS-FIT ENDS..
  - 3. BALL VALVES:
    - 1. SIZES 2" AND SMALLER - BRONZE, TWO-PIECE BODY, FULL PORT, FORGED BRASS CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLED, SOLDER, THREADED, OR PRESS FIT ENDS.
- C. INSTALLATION
  - 1. INSTALL ALL PIPING IN CRAFTSMANSHIP LIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.
  - 2. PROVIDE CLEARANCE FOR ACCESS TO VALVES AND FITTINGS.
  - 3. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
  - 4. INSTALL BALL VALVES FOR SHUT-OFF TO ISOLATE EQUIPMENT.
  - 5. INSTALL HANGERS AND SUPPORTS IN ACCORDANCE WITH MSS-SP-69 AND 89.
  - 6. TEST ALL PIPING IN ACCORDANCE WITH IFGC AND UPC REQUIREMENTS.

**SECTION 23 31 00 - HVAC DUCTS AND CASINGS**

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL
- B. MATERIALS:
  - 1. DUCTWORK:
    - 1. GALVANIZED STEEL - ASTM A653/A653M GALVANIZED SHEET, LOCK-FORMING QUALITY, ASTM A90/90M G90 ZINC COATING.
    - 2. FASTENERS - RIVETS, BOLTS, OR SHEET METAL SCREWS.
- C. INSTALLATION:
  - 1. LOW AND MEDIUM PRESSURE DUCTWORK - FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, EXCEPT AS INDICATED. SEAL ALL DUCT SEAMS AND JOINTS AIRTIGHT. USE TURNING VANES IN ALL SQUARE ELBOWS AND FLAT OVAL ELBOWS. INSTALL VOLUME DAMPERS AND EXTRACTORS WHERE SHOWN ON THE DRAWINGS. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. SUPPORT LOW AND MEDIUM PRESSURE DUCTWORK PER SMACNA GUIDELINES.
  - 2. PROVIDE SEISMIC SUPPOT AND RESTRAINT FOR ALL DUCTWORK AND EQUIPMENT IN ACCORDANCE WITH THE IBC.

**SECTION 23 33 00 - AIR DUCT ACCESSORIES**

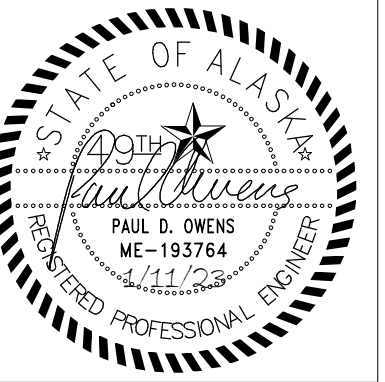
- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL
- B. MATERIALS:
  - 1. DAMPERS:
    - 1. CONTROL - DIFFERENTIAL PRESSURE RATING OF 8" W.G., VELOCITY RATING OF 4,000 FPM, LEAKAGE RATING OF 3 CFM/FT2 AT 1" W.G. DIFFERENTIAL STATIC PRESSURE. DAMPER FRAME AND SLEEVE SHALL BE OF ONE-PIECE DESIGN, 16 GAUGE GALVANIZED STEEL, MULTI-BLADE, AIRFOIL TYPE, OPPOSED, PLATED STEEL AXLES, EXTERNAL BLADE-TO-BLADE LINKAGE, TPE BLADE SEALS. GREENHECK "VCD-33" OR APPROVED EQUAL.
    - 2. FLEXIBLE DUCT CONNECTIONS - UL AND NFPA 701 LISTED FIRE RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC, MINIMUM DENSITY 30 OZ. PER SQ. YD, 3" WIDTH, CRIMPED INTO METAL EDGING STRIP. DURO-DYNE "NEOPRENE FLEXIBLE DUCT CONNECTOR" OR APPROVED EQUAL.
- C. INSTALLATION:
  - 1. INSTALL COMPONENTS IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
  - 2. INSTALL TEMPORARY DUCT TEST HOLES AS REQUIRED FOR TESTING AND BALANCING. CAP ALL HOLES WITH NEOPRENE OR THREADED PLUGS.

**SECTION 23 51 00 - BREECHINGS, CHIMNEYS, & STACKS**

- A. SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR APPROVAL.
- B. MATERIALS:
  - 1. TYPE B, DOUBLE WALL STACK FOR GAS FIRED EQUIPMENT - FABRICATE INNER PIPE OF SHEET ALUMINUM, AND OUTER PIPE OF GALVANIZED SHEET STEEL, TESTED IN COMPLIANCE WITH UL 441.
- C. INSTALLATION:
  - 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - 2. PROVIDE DOUBLE WALL, INSULATED VENT CONTINUOUS FROM APPLIANCE OUTLET TO EXTERIOR TERMINATION.
  - 3. MAINTAIN UL LISTED MINIMUM CLEARANCE FROM COMBUSTIBLES.
  - 4. NO SINGLE WALL VENTS ARE PERMITTED.

**SEQUENCE OF OPERATIONS:**

- EF-1: FAN TO START WITH WALL SWITCH TIMER.
- MOTORIZED CONTROL DAMPER: OPEN DAMPERS TO 100% WHEN EF-1 IS ACTIVE. CLOSE DAMPER TO 0% WHEN EF-1 IS OFF.
- UH-1: UNIT HEATER TO BE CONTROLLED BY LOCAL THERMOSTAT.



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 1/12/23

DRAWN: PDO

CHECKED: MRF/BPP

PROJECT: M1236

DRAWING TITLE:  
MECHANICAL  
SPECIFICATIONS

REVISIONS:

SHEET NO:

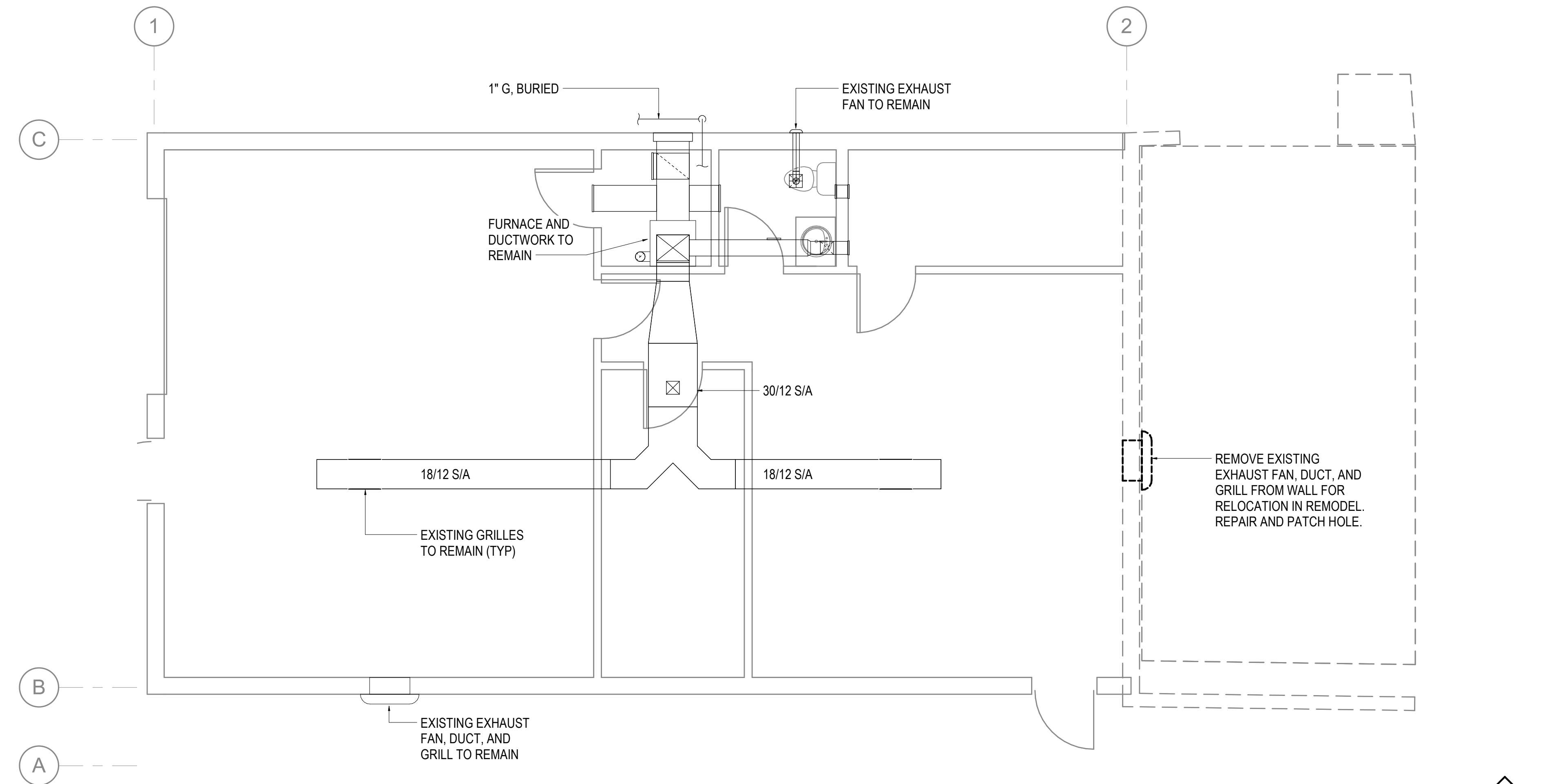
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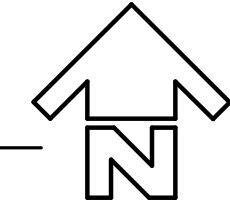
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**GENERAL NOTES:**

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED BOLD LINES INDICATE ITEMS TO BE REMOVED. UNBOLDED LINES INDICATE EXISTING ITEMS TO REMAIN.



**1** FIRST FLOOR HVAC DEMOLITION  
1/4" = 1'-0"

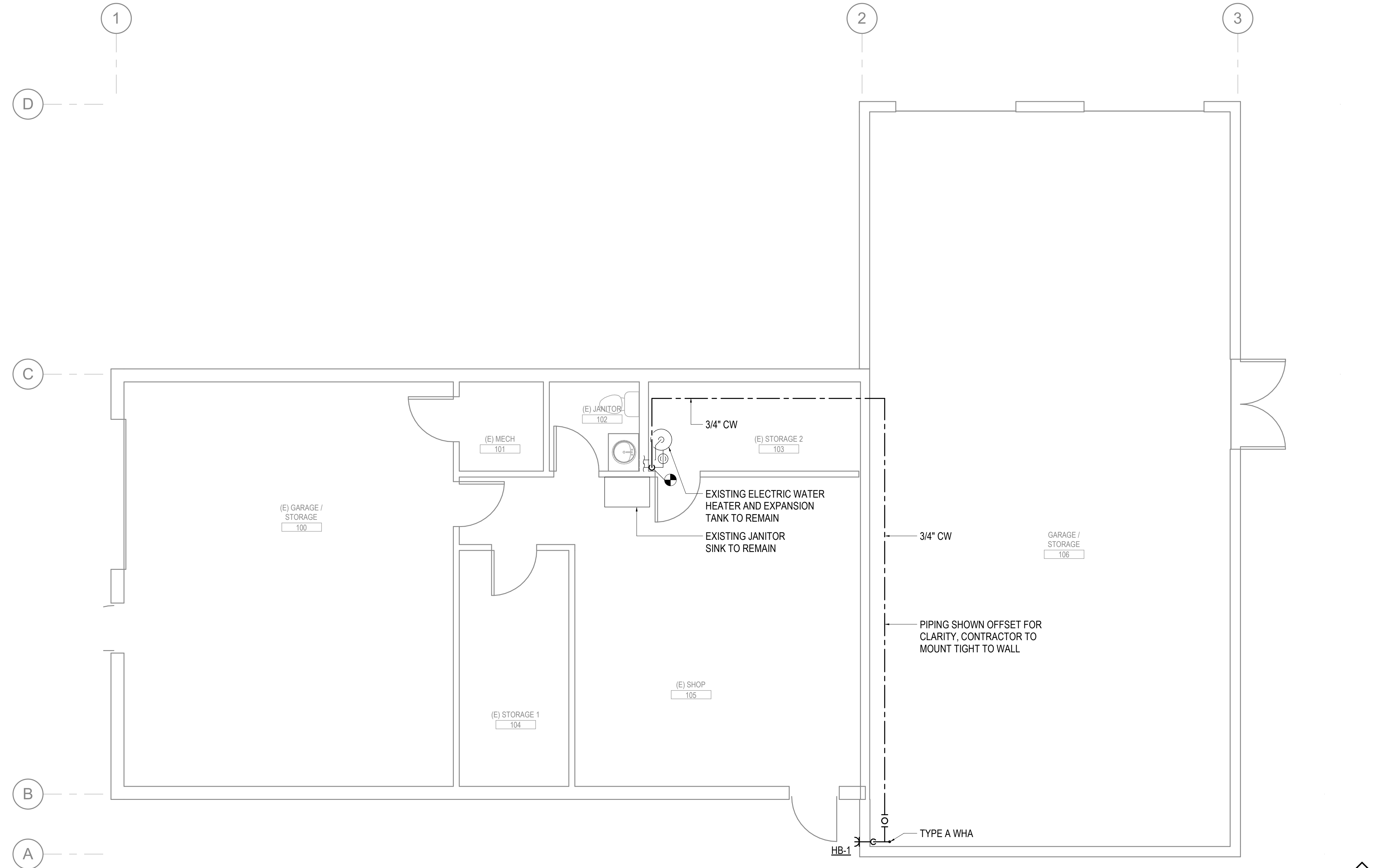


MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	PDO
CHECKED:	MRF/BPP
PROJECT:	M1236
DRAWING TITLE:	MECHANICAL DEMOLITION
REVISIONS:	
SHEET NO.:	<b>M101</b>

**GENERAL NOTE:**

- A. THE INFORMATION SHOWN ON THIS DRAWINGS IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREIN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.



**1 FIRST FLOOR PLUMBING REMODEL**  
1/4" = 1'-0"



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**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	PDO
CHECKED:	MRF/BPP
PROJECT:	M1236
DRAWING TITLE:	FIRST FLOOR PLUMBING
REVISIONS:	
SHEET NO:	

**M201**



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**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

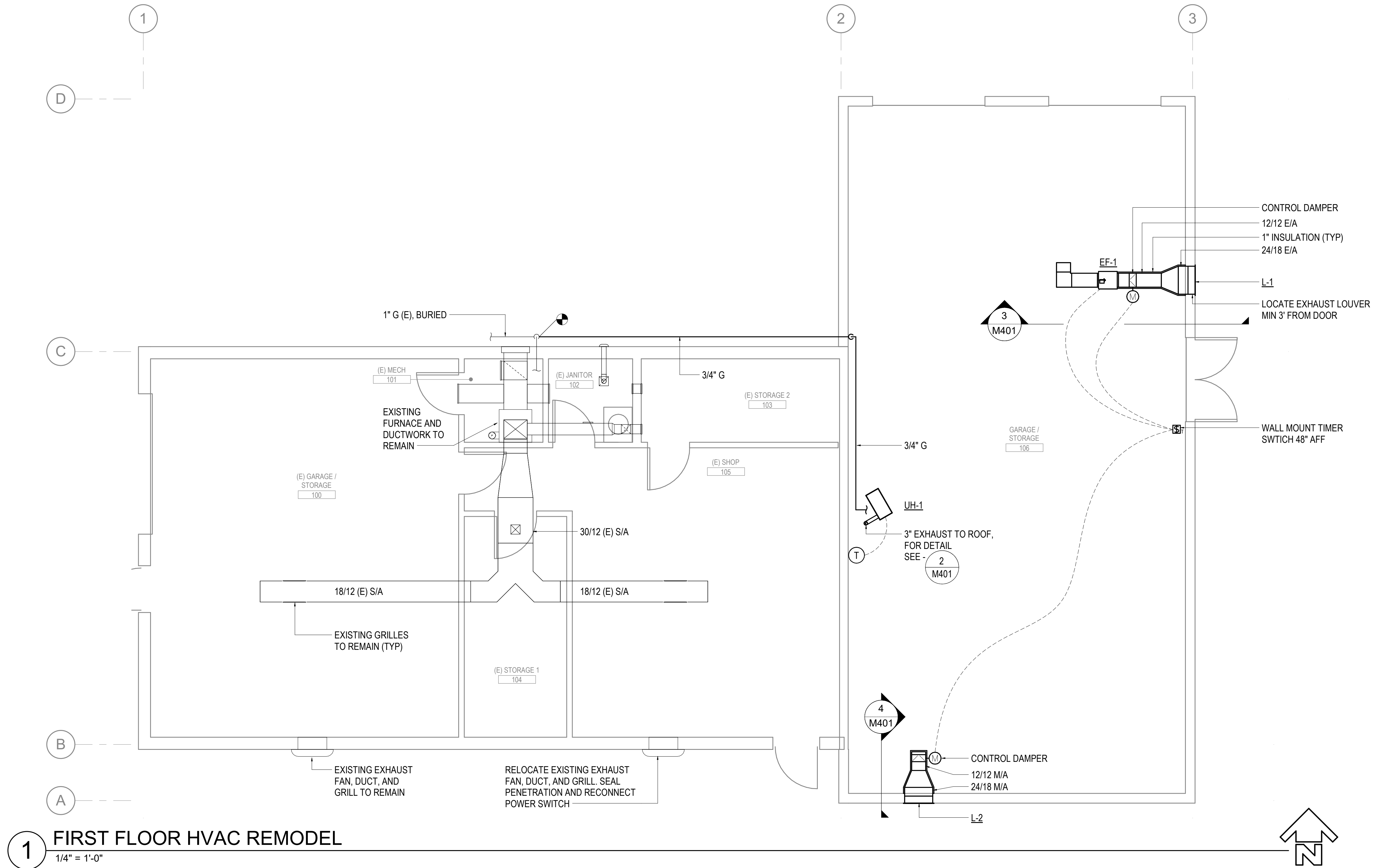
DATE: 1/12/23  
 DRAWN: PDO  
 CHECKED: MRF/BPP  
 PROJECT: M1236  
 DRAWING TITLE:  
 FIRST FLOOR HVAC

REVISIONS:

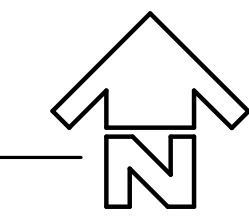
SHEET NO:  
**M301**

**GENERAL NOTE:**

A. THE INFORMATION SHOWN ON THIS DRAWINGS IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREIN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.



**1** FIRST FLOOR HVAC REMODEL  
 1/4" = 1'-0"







**Burkhardt Croft**  
 ARCHITECTS LLC  
 880 N Street Suite 302 | Anchorage Alaska 99501  
 T: 907.929.9394 | www.burkhardt-croft.com

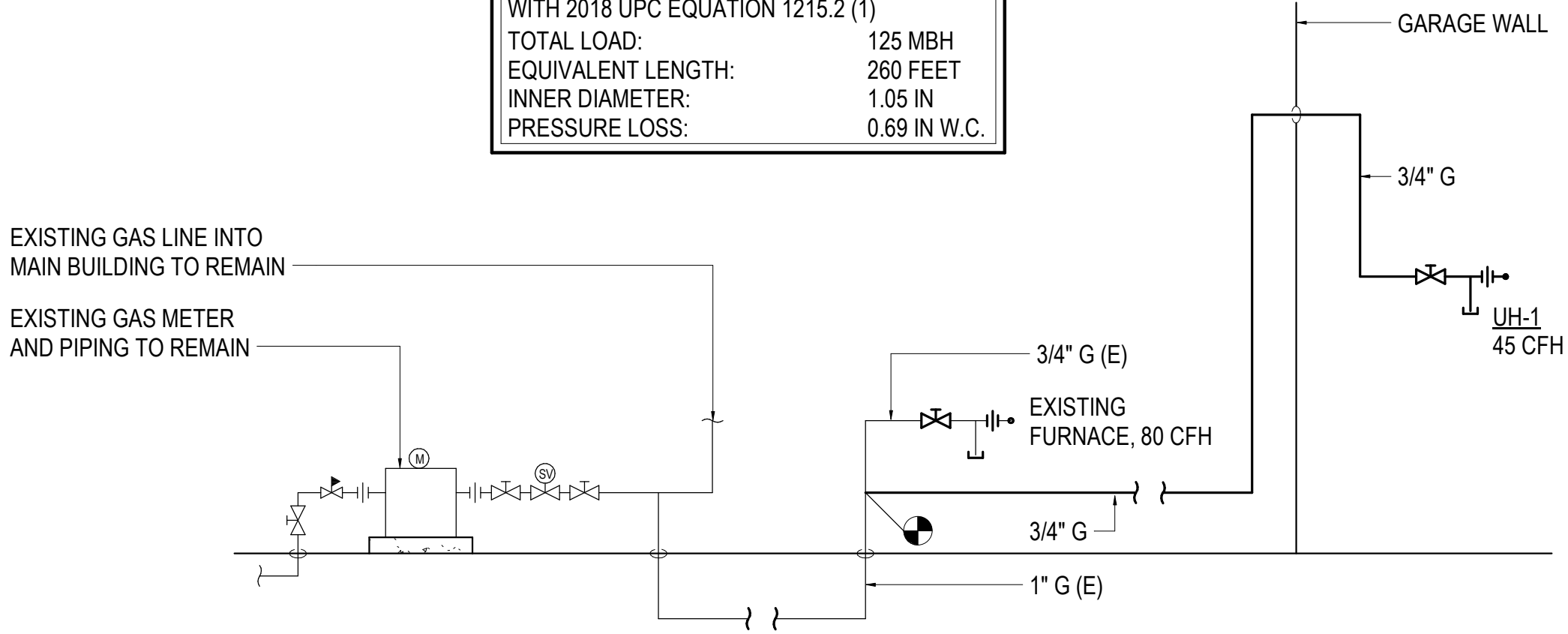
MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: PDO  
 CHECKED: MRF/BPP  
 PROJECT: M1236  
 DRAWING TITLE:  
 SCHEMATICS,  
 DETAILS, AND  
 ELEVATIONS

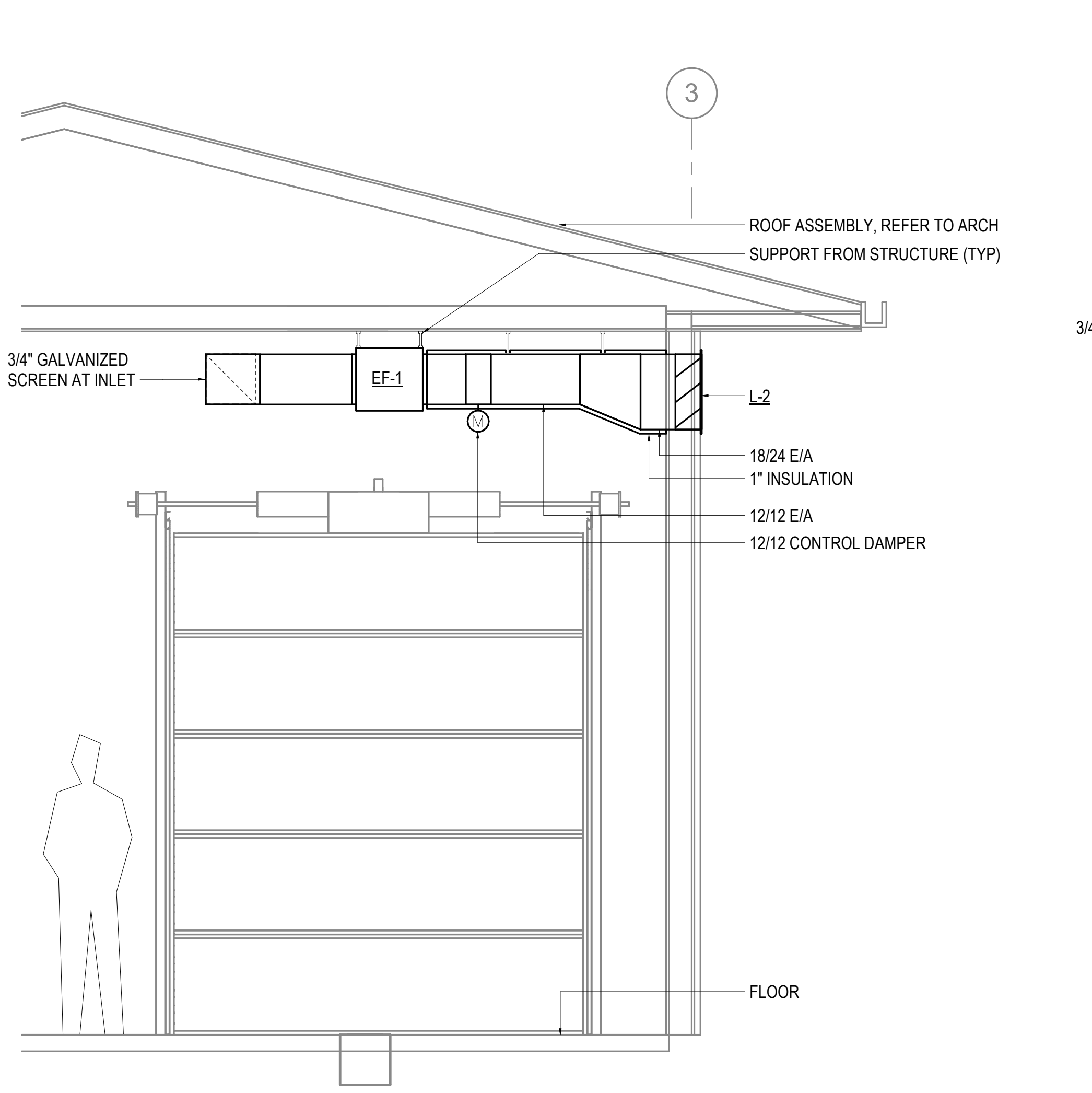
REVISIONS:

SHEET NO:  
**M401**

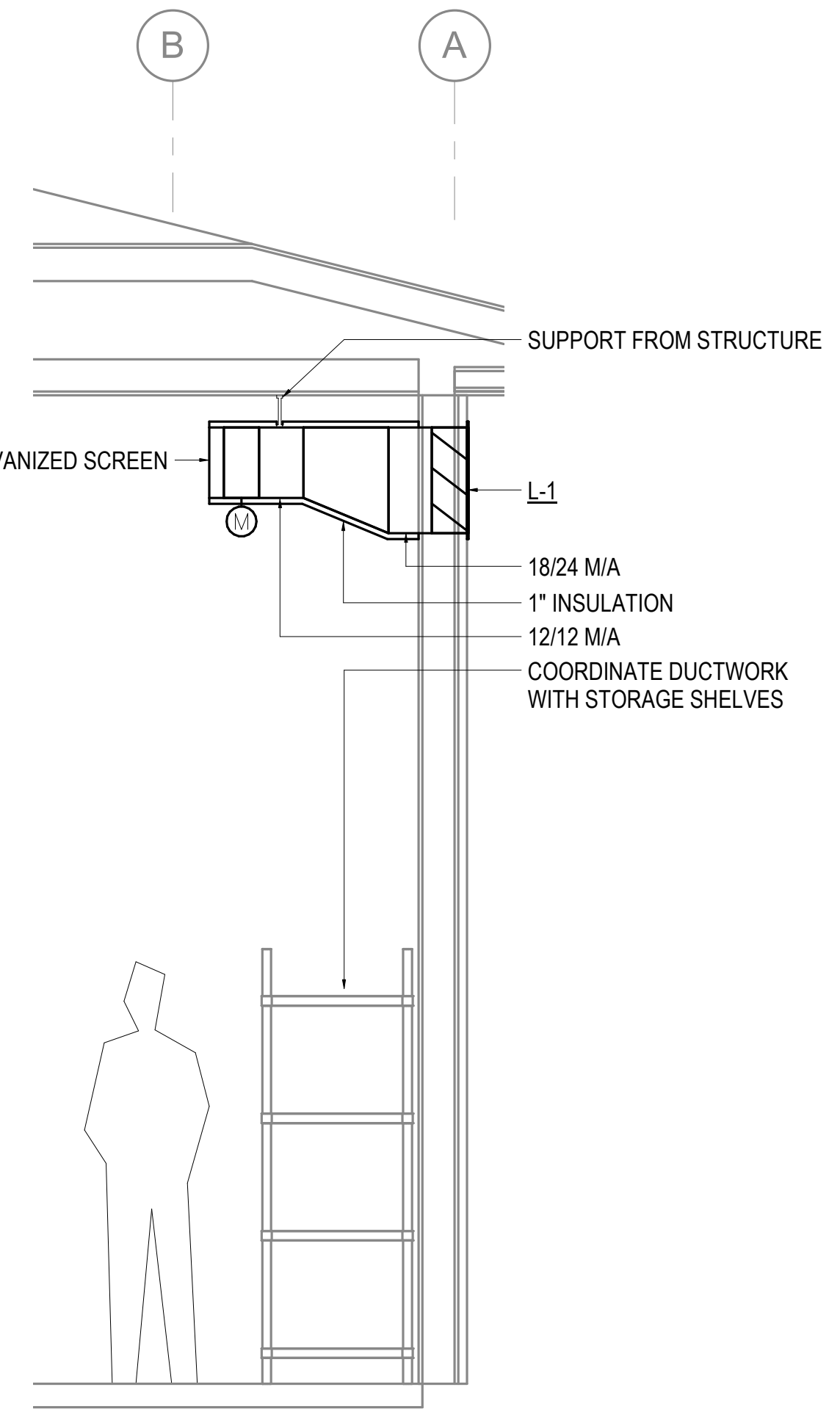
GAS PIPING SIZED IN ACCORDANCE  
 WITH 2018 UPC EQUATION 1215.2 (1)  
 TOTAL LOAD: 125 MBH  
 EQUIVALENT LENGTH: 260 FEET  
 INNER DIAMETER: 1.05 IN  
 PRESSURE LOSS: 0.69 IN W.C.



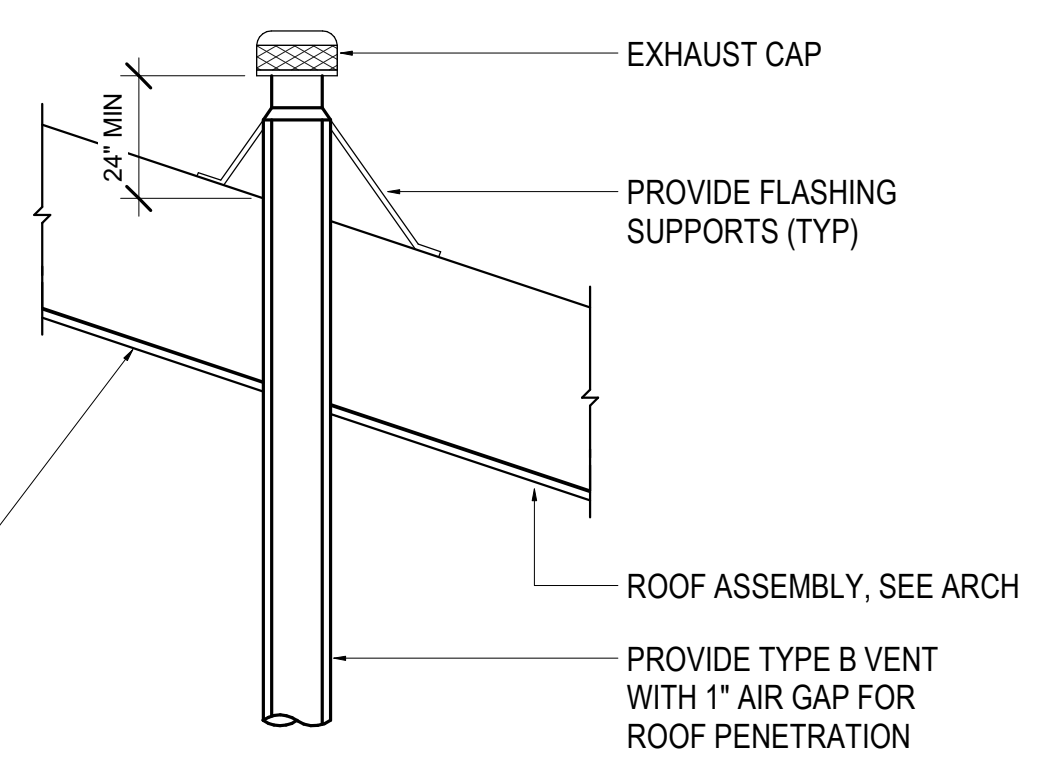
**1 GAS PIPING SCHEMATIC**  
 NOT TO SCALE



**3 EF-1 AIR SECTION**  
 1/2" = 1'-0"

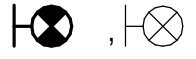


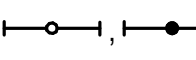
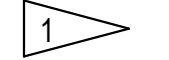



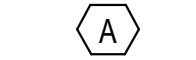
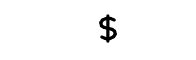
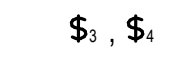




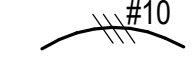

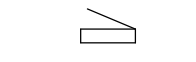



**4 MAKE-UP AIR SECTION**  
 1/2" = 1'-0"



**2 EXHAUST FLUE THROUGH ROOF DETAIL**  
 NOT TO SCALE

COORDINATION LOCATION OF  
 EXHAUST FLUE WITH  
 STRUCTURE, RIDGE, AND  
 ROOF PANEL SEAMS

ELECTRICAL LEGEND			
	EMERGENCY EXIT SIGN - SURFACE MTD WALL, EXISTING		FIRE ALARM PULL STATION
	LINEAR LIGHT FIXTURE - SURFACE MTD CLG		FIRE ALARM HORN/STROBE LIGHT (WALL, CLG MOUNTED)
	STRIPLIGHT - PENDANT OR SURFACE MTD CLG, EM		NOTE TAG (No. INDICATES NOTE)
	LIGHT FIXTURE - SURFACE MTD ON WALL		EQUIPMENT TAG (No. INDICATES TYPE)
	FLOODLIGHT - OUTDOORS, WEATHERPROOF	AFF	ABOVE FINISHED FLOOR
	FIXTURE TAG (LETTER INDICATES TYPE)	AFG	ABOVE FINISHED GRADE
\$	SINGLE POLE SWITCH	C	CONDUIT
\$ <sub>3</sub> , \$ <sub>4</sub>	THREE WAY SWITCH, FOUR WAY SWITCH	CLG	DENOTES ITEM LOCATED ON THE CEILING
\$ <sub>o</sub>	DIMMER SWITCH	E	DENOTES EXISITNG ITEM
\$ <sub>os</sub>	OCCUPANCY SENSOR WALL SWITCH (DUALTECH)	EM	DENOTES EMERGENCY POWER
	PHOTOCELL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	CONDUIT, CONCEALED	GRSC	GALVANIZED RIGID STEEL CONDUIT
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)	K	KELVIN
A-2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	LED	LIGHT EMITTING DIODE
	EXISTING PANEL	LM	LUMENS
	DUPLEX RECEPTACLE	MCB	MAIN CIRCUIT BREAKER
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER	MLO	MAIN LUGS ONLY
	JUNCTION BOX	NEC	NATIONAL ELECTRICAL CODE
	PUSHBUTTON	R	DENOTES EXISTING ITEM THAT HAS BEEN RELOCATED
	MOTOR (SIZED AS SHOWN)	TYP	TYPICAL
\$ <sub>f</sub>	FRACTIONAL HORSEPOWER MOTOR STARTER	UON	UNLESS OTHERWISE NOTED
	TELECOMMUNICATION OUTLET (COMBINATION TELEPHONE & DATA)	WP	WEATHERPROOF

LIGHT FIXTURE SCHEDULE									
TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS	
				TYPE	HEIGHT				
<b>A</b>	GARAGE/STORAGE	LITHONIA #1BHST-9000LM-SD080-MD-MVOLT-OZ10-40K-80CRI-CS93W-WH	LED HIGH BAY FIXTURE WITH SEMI-DIFFUSE ACRYLIC LENS, GLOSS WHITE FINISH, WHITE CORD, NO PLUG, 36" HANGER CHAIN	HANGER CHAIN	12'-0" AFF	4,000K 8,796LM	120V-277V DRIVER	79	
<b>B</b>	AS SHOWN	LITHONIA #WEDGE3-LED-P3-40K-80CRI-R3-MVOLT-PE-DBBXD	ARCHITECTURAL WALL SCONCE WITH TYPE 3 DISTRIBUTION WITH INTEGRAL PHOTOCELL AND DARK BRONZE FINISH. COORDINATE MOUNTING TYPE PRIOR TO ORDERING AND PROVIDE BACKBOX IF NEEDED	WALL	BOTTOM OF EAVE	4,000K 10,054LM	120V-277 DRIVER	71	
<b>B1</b>	AS SHOWN	LITHONIA #WEDGE3-LED-P1-40K-80CRI-R3-MVOLT-PE-DBBXD	SAME AS TYPE B BUT LOWER LUMEN PACKAKGE WITH DARK BRONZE FINISH. COORDINATE MOUNTING TYPE PRIOR TO ORDERING AND PROVIDE BACKBOX IF NEEDED	WALL	10' AFG	4,000K 7,524LM	120V-277 DRIVER	52	

EXISTING LIGHT FIXTURE SCHEDULE		
	LUMINAIRE DESCRIPTION	VA
(A)	2-LAMP FLUORESCENT T5 LAMPS, 4' LENGTHS W/ PULLCORD	60
(A1)	2-LAMP FLUORESCENT T5 LAMPS, 4' LENGTHS	60
(B)	HALOGEN FLOODLIGHT	100
(C)	HID SURFACE 12"X12"	N/A



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MUNICIPALITY OF ANCHORAGE  
**ANCHORAGE SENIOR CENTER  
 GARAGE ADDITION**  
 ANCHORAGE, ALASKA

DATE: 1/12/23  
 DRAWN: LKA  
 CHECKED: JAM,PCC  
 PROJECT: M1236  
 DRAWING TITLE:  
 LEGEND, SCHEDULES  
 REVISIONS:  
 SHEET NO:

**E001**

# ELECTRICAL SPECIFICATIONS

## 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

- A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR AN EXTENSION TO THE EXISTING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- B. STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES. COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION.
- C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ARCHITECT. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
- D. RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.
- E. WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.
- F. SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM, NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- G. OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER'S PERSONNEL. DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM INCLUDING START-UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN. PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING, INSPECTION AND LUBRICATION WITH RECOMMENDED LUBRICANTS. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION, EXPLODED VIEWS, ETC.
- H. WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.
- I. PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES.
- J. REFERENCE SYMBOLS: THE ELECTRICAL "LEGEND" ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE "LEGEND" AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.
- K. PENETRATION 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.

## 26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL

- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DRAWING. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING THE EXISTING INSTALLATION. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS (TELEPHONE, FIRE ALARM, LIGHTING, ELECTRICAL SERVICE, ETC.) IN SERVICE DURING CONSTRUCTION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.
- B. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- C. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. WHERE ABANDONED CONDUIT ENTERS EXISTING SURFACES TO REMAIN, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

- D. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
- E. CONTRACTOR TO FIELD VERIFY CONDUITS AND ELECTRICAL ITEMS IN WALLS TO BE DEMOLISHED PRIOR TO START OF WORK. DEMOLISH CONDUITS, BOXES, DEVICES, EQUIPMENT, ETC. IN WALLS THAT ARE SCHEDULED FOR DEMOLITION. WHERE CONDUITS PASS THROUGH THE WALLS OR CIRCUITS ARE SHARED WITH EQUIPMENT THAT IS EXISTING TO REMAIN, PROVIDE ALL WORK NECESSARY (INCLUDING EXTENDING AND RE-ROUTING CONDUITS) TO MAINTAIN ACCESS AND PROVIDE ELECTRICAL CONTINUITY TO EXISTING SYSTEMS AND CIRCUITRY

## 26 05 19 - WIRE AND CABLE

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW, THWN, THW OR THHN INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE 12 AWG. MINIMUM CONTROL CIRCUIT CONDUCTOR SIZE SHALL BE #18 AWG.
  - CONTROL CIRCUITS SHALL BE COPPER, STRANDED CONDUCTOR, 600V INSULATION, THHN/THWN, MINIMUM SIZE 18 AWG.
  - TYPE MC CABLE: SOLID COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, RATED 90° C, INSULATED GREEN GROUNDING CONDUCTOR, AND GALVANIZED STEEL ARMOR OVER MYLAR.
- C. INSTALLATION:
- COLOR CODE WIRES BY LINE OR PHASE. COLOR CODE THE 120/240V CONDUCTORS TO MATCH EXISTING SYSTEM.
  - DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT THAT REQUIRES A NEUTRAL.
  - USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER.
  - INSTALLATION SCHEDULE: BUILDING WIRE IN RACEWAYS AT ALL LOCATIONS UNLESS OTHERWISE NOTED.

## 26 05 26 - GROUNDING AND BONDING

- A. INSTALLATION:
- PROVIDE A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW BRANCH CIRCUITS AND FEEDERS. TERMINATE EACH END ON A GROUNDING LUG, BUS, OR BUSHING.
  - MECHANICAL CONNECTORS: NON-REVERSIBLE CRIMP TYPE LUGS ONLY. USE FACTORY MADE COMPRESSION LUG FOR ALL TERMINATIONS. FOR TELECOMMUNICATION SYSTEMS USE COPPER, COPPER ALLOY, OR TIN-PLATED COPPER, NON-REVERSIBLE LONG BARREL CRIMP TYPE BOLT LUGS WITH TWO BOLT TONGUES FOR 6 AWG OR LARGER CONDUCTORS. CRIMP TYPE ONE HOLE FOR CONDUCTORS SMALLER THAN 6 AWG.
  - BOND TOGETHER SYSTEM NEUTRALS, EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING AND FUEL SYSTEMS.

## 26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIAL: SUPPORT CHANNEL SHALL BE GALVANIZED OR PAINTED STEEL. HARDWARE SHALL BE CORROSION RESISTANT.
- C. INSTALLATION: EQUIPMENT WEIGHING MORE THAN 50 POUNDS SHALL BE ADEQUATELY ANCHORED TO THE BUILDING STRUCTURE TO RESIST LATERAL EARTHQUAKE FORCES. PROVIDE SAFETY CHAINS FOR LIGHT FIXTURES, SUPPORTED FROM T-BAR OR OTHER CEILING SUSPENSION SYSTEM, CAPABLE OF SUPPORTING A MINIMUM OF 200 POUNDS. ATTACH SAFETY CHAINS AT EACH CORNER OF FIXTURE CONNECTED SUCH THAT FIXTURE WILL NOT DROP BELOW A HEIGHT OF 7'-6" IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.

## 26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- ELECTRICAL METALLIC TUBING CONDUIT (EMT): ANSI C80.3. GALVANIZED TUBING. FITTINGS AND CONDUIT BODIES: ANSINEMA FB 1; STEEL OR MALLEABLE IRON, COMPRESSION TYPE OR SET SCREW FITTINGS WITH INSULATED THROAT BUSHINGS. DIE-CAST FITTINGS ARE NOT ACCEPTABLE.
  - FLEXIBLE METAL CONDUIT: FS WW-C-566; STEEL, FULL WALL OR REDUCED WALL THICKNESS. FITTINGS AND CONDUIT BODIES: ANSINEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
  - LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT WITH PVC JACKET. FITTINGS AND CONDUIT BODIES: ANSINEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
  - PROVIDE GALVANIZED OR CADMIUM PLATED, ONE PIECE PRESSED STEEL OUTLET BOXES 4 INCH SQUARE OR OCTAGONAL, 1-1/2 INCHES DEEP MINIMUM SIZE FOR USE IN INTERIOR AREAS.
  - PROVIDE CAST ALUMINUM OR FERROALLOY TYPE BOXES WITH GASKETED COVER, THREADED HUBS AND NEMA 3R RATING FOR USE IN EXTERIOR OR WET LOCATIONS.
- C. INSTALLATION:
- INSTALL CONDUIT FOR ALL SYSTEMS UNLESS OTHERWISE NOTED, 1/2 INCH MINIMUM SIZE, EXCEPT CONDUIT FOR SPECIAL SYSTEMS SHALL BE 3/4" MINIMUM.
  - EXPOSED DRY INTERIOR LOCATIONS SHALL BE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT. ELECTRICAL METALLIC TUBING MAY BE USED EXPOSED WHEN INSTALLED ON THE CEILING, A MINIMUM OF TEN FEET ABOVE THE FLOOR OR WHERE NOT SUBJECT TO PHYSICAL DAMAGE. EMT MAY ALSO BE USED FOR CONCEALED, DRY, INTERIOR LOCATIONS.
  - MOTOR AND EQUIPMENT CONNECTIONS SHALL BE SHORT EXTENSIONS OF FLEXIBLE METAL CONDUIT TO ALLOW FOR VIBRATION. LIQUIDTIGHT FLEXIBLE CONDUIT AND FITTINGS SHALL BE USED FOR THESE CONNECTIONS IN DAMP OR WET LOCATIONS.
  - ALL CONDUIT FOR THE TELECOMMUNICATIONS DISTRIBUTION SYSTEM SHALL BE INSTALLED WITH NO MORE THAN THREE 90-DEGREE BENDS BETWEEN PULLBOXES. PULL BOXES SHALL NOT BE USED IN LIEU OF CONDUIT BENDS. CONDULETS (LB FITTINGS) SHALL NOT BE INSTALLED IN ANY TELECOMMUNICATIONS RACEWAY. PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE.
  - INSTALL FITTINGS AND FLEXIBLE METAL CONDUIT TO ACCOMMODATE 3-AXIS MOVEMENTS WHERE RACEWAY CROSSES SEISMIC JOINTS. INSTALL FITTINGS DESIGNED AND LISTED TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE RACEWAY CROSSES CONTROL AND EXPANSION JOINTS.

- DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS. PROVIDE A MINIMUM 6 INCH SEPARATION FOR MINIMUM SOUND TRANSMISSION.
- USE MULTIPLE-GANG BOXES WHERE MORE THAN ONE DEVICE ARE MOUNTED TOGETHER; DO NOT USE SECTIONAL BOXES.
- SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
- COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES AND BACKSPLASHES.

## 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED TO IDENTIFY ALL ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND LOADS SERVED.
  - TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.
  - WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
- C. INSTALLATION:
- JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER. MARK ALL FIRE ALARM SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS WITH "FA." MARK WITH INDELIBLE RED MARKER. MARK ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS.
  - WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END, EXCEPT AT PANELBOARDS, WHERE MARKERS FOR BRANCH CIRCUIT CONDUCTORS SHALL BE VISIBLE WITHOUT REMOVING PANEL DEADFRONT.
  - DEVICE PLATES: LABEL EACH RECEPTACLE DEVICE PLATE OR POINT OF CONNECTION DENOTING THE PANELBOARD NAME AND CIRCUIT NUMBER. INSTALL LABEL ON THE TOP OF EACH PLATE.

## 26 27 26 - WIRING DEVICES

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
- WALL SWITCHES: SWITCHES FOR LIGHTING CIRCUITS SHALL BE ANSINEMA WD6 AND FEDERAL SPECIFICATION FS W-S-896 AC GENERAL USE SNAP SWITCH WITH TOGGLE HANDLE, RATED 20 AMPERES AND 120-277 VOLTS AC. HANDLE: WHITE NYLON.
  - RECEPTACLES: CONVENIENCE AND STRAIGHT BLADE RECEPTACLES SHALL BE NEMA AND FEDERAL SPECIFICATION FS W-C-596, TYPE 5-20R, WHITE NYLON FACE. SPECIFIC USE RECEPTACLES SHALL BE NEMA WD1 OR WD5; AS REQUIRED TO MATCH LOAD SERVED, BLACK PHENOLIC FACE. GFCI RECEPTACLES SHALL BE 20A, DUPLEX CONVENIENCE RECEPTACLE WITH INTEGRAL CLASS 'A' GROUND FAULT CURRENT INTERRUPTER AND LOCKOUT FEATURE. TAMPERPROOF RECEPTACLES SHALL BE UL 489.
  - WALL PLATES: DECORATIVE COVER PLATES IN FINISHED AREAS SHALL BE 430 OR 302 STAINLESS STEEL. WEATHERPROOF COVER PLATES SHALL BE GASKETED STAINLESS STEEL WITH HINGED GASKETED DEVICE COVERS. DEVICE PLATES FOR WET LOCATION RECEPTACLES SHALL BE "IN USE" TYPE. PROVIDE 1/2 INCH RAISED, SQUARE, GALVANIZED OR CADMIUM PLATED, PRESSED STEEL COVER PLATE SUPPORTING DEVICES INDEPENDENT OF THE OUTLET BOX FOR ALL EXPOSED WORK.
- C. INSTALLATION:
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, INSTALL RECEPTACLES 18 INCHES ABOVE FINISH FLOOR, 4 INCHES ABOVE COUNTERS AND BACKSPLASHES WITH GROUNDING POLE ON BOTTOM. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO CENTERLINE OF OUTLET.
  - INSTALL WALL SWITCHES AND DIMMERS 48 INCHES ABOVE FLOOR, OFF POSITION DOWN.
  - INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE-MOUNTED OUTLETS.

## 26 29 13 - ENCLOSED CONTROLLERS

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
- MANUFACTURERS: SQUARE D, GE, EATON, OR EQUAL
  - MANUAL AND FRACTIONAL MOTOR STARTERS: NEMA ICS 2, AC GENERAL PURPOSE CLASS A, MANUALLY OPERATED UNIT WITH NUMBER OF POLES AS REQUIRED BY THE LOAD SERVED, FULL-VOLTAGE CONTROLLER FOR FRACTIONAL HORSEPOWER INDUCTION MOTORS, WITH THERMAL OVERLOAD UNIT, RED PILOT LIGHT, AND TOGGLE OPERATOR.
- C. INSTALLATION
- SELECT AND INSTALL HEATER ELEMENTS IN MOTOR STARTERS TO MATCH INSTALLED MOTOR CHARACTERISTICS.
  - FIELD ADJUST THE TRIP SETTINGS OF ALL MOTOR STARTER MAGNETIC TRIP ONLY CIRCUIT BREAKERS TO APPROXIMATELY 11 TIMES MOTOR FULL LOAD CURRENT. DETERMINE FULL LOAD CURRENT FROM MOTOR NAMEPLATE FOLLOWING INSTALLATION.
  - AFTER FINAL CONNECTIONS ARE MADE, CHECK AND CORRECT THE ROTATION OF ALL MOTORS.
  - MOTOR STARTING EQUIPMENT SHALL BE LISTED FOR USE AND PROPERLY SIZED FOR OPERATION WITH THE MOTORS SPECIFIED BY MECHANICAL.

## 26 50 00 - LIGHTING FIXTURES

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
- LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC.
  - LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT 75% AVERAGE INDOOR TEMPERATURE AND -20F WHERE INSTALLED OUTDOORS.
  - LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000 K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50,000 HOURS.
  - LED EMERGENCY DRIVERS: UL LISTED, FACTORY INSTALLED, SELF-CONTAINED EMERGENCY POWER SUPPLY AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER, WITH MINIMUM WATTAGE, VOLTAGE AND AMPERE RATINGS SUITABLE OF AUTOMATICALLY OPERATING THE SPECIFIED FIXTURE AT 90 MINUTES UNDER LOSS OF UTILITY POWER. 120/277V INPUT.
- C. INSTALLATION:
- PROVIDE LUMINAIRE DISCONNECTING MEANS IN BALLAST/DRIVER CHANNEL OF EACH LIGHT FIXTURE. WHERE THE LUMINAIRE IS FED FROM A MULTI-WIRE BRANCH CIRCUIT, PROVIDE MULTI-POLE DISCONNECT TO SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDING CONDUCTOR.
  - TEST OPERATION OF ALL EMERGENCY LIGHTS BY SIMULATING A POWER OUTAGE FOR 90 MINUTES. CONFIRM THAT ALL EMERGENCY LIGHTING IS OPERATIONAL AND MEETS THE REQUIREMENTS OF NEC 700.12(A). CORRECT ALL DEFICIENCIES PRIOR TO SUBSTANTIAL COMPLETION.

## 28 23 00 - VIDEO SURVEILLANCE SYSTEM

- A. SUMMARY: THIS SECTION INCLUDES AN EXTENSION OF THE EXISTING VIDEO SURVEILLANCE SYSTEM TO THE BUILDING ADDITION.
- B. SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR APPROVAL.
- C. MATERIALS:
- VIDEO MANAGEMENT SYSTEM: EXISTING "MILESTONE XPROTECT". PROVIDE NEW LICENSES FOR NEW CAMERAS.
  - TELECOMMUNICATIONS CABLE: PROVIDE AND INSTALL CMP, CATEGORY 6, 4-PAIR, 24 AWG, SOLID COPPER TELECOMMUNICATIONS CABLE. SUPERIOR ESSEX "DATAGAIN" OR APPROVED EQUAL. CABLES SHALL BE ROUTED A MINIMUM OF 5 INCHES FROM POWER LINES 2 KVA OR LESS, 12 INCHES FROM FLUORESCENT OR HID BALLASTS, 36 INCHES FROM POWER LINES 5 KVA OR GREATER, 40 INCHES FROM TRANSFORMERS AND MOTORS. CABLE JACKET SHALL BE MAINTAINED TO WITHIN .5 INCH OF JACK AND TWISTS SHALL BE MAINTAINED TO WITHIN .25 INCH OF TERMINATION POINT. COMPLY WITH CABLE MANUFACTURERS MAXIMUM PULLING TENSION AND MINIMUM BEND RADIUS REQUIREMENTS. DO NOT STRETCH, STRESS, TIGHTLY COIL, BEND OR CRIMP CABLES. CABLES SHALL BE ROUTED SO THAT CABLE LENGTHS DO NOT EXCEED 90 METERS PER ANSITIA REQUIREMENTS. PERFORM END-TO-END TESTS OF EACH CABLE AFTER INSTALLATION AND TERMINATION TO SHOW COMPLIANCE WITH ANSII/TIA/EIA REQUIREMENTS AND PROVIDE TEST REPORTS WITH O&M SUBMITTAL.
  - TELECOMMUNICATIONS JACKS: PROVIDE SURFACE JACK IN LAST JUNCTION BOX PRIOR TO PATCH CORD LEAVING THE BUILDING. JACK SHALL BE BY THE SAME MANUFACTURER OR CABLING SOLUTION AS THE SUBMITTED CATEGORY 6 CABLE.
  - PATCH PANEL: 24-PORT FLAT PATCH PANEL MATCHING THE MANUFACTURER OR CABLING SOLUTION FOR INSTALLATION IN THE SECURITY ENCLOSURE.
  - FIBER OPTIC CABLE: PROVIDE INDOOR/OUTDOOR, 12-STRAND OM3 MULTIMODE CABLE FROM EXISTING TELECOM RACK TO NEW SECURITY ENCLOSURE. PROVIDE NEW CASSETTE IN EXISTING HOUSING IN RACK. PROVIDE FIELD CASSETTE FOR TERMINATION OF ALL FIBERS IN SECURITY ENCLOSURE.
  - SECURITY ENCLOSURE: MIDDLE ATLANTIC #QMA-TOR-4-20SP OR EQUAL SURFACE MOUNT LOW-PROFILE ENCLOSURE WITH 4U OF RACK SPACE, 20" USEABLE DEPTH, AND 4SQ OPENING FOR RECEPTACLE.
  - NETWORK SWITCH: TRANSITION NETWORKS SM24 SERIES OR EQUAL 24-PORT POE+ MANAGED NETWORK SWITCH. PROVIDE OM3 SFP MODULE FOR NETWORK CONNECTION TO FIBER BACKBONE.
  - CAMERA TYPE 'A': AXIS #P3245-LVE OR EQUAL, 1080P, DAY/NIGHT DOME STYLE CAMERA WITH IK10 VANDAL-RESISTANT RATING.
  - MOUNTING HARDWARE: PROVIDE ALL BOXES AND RACEWAY TO MOUNT THE CAMERAS AT THE LOCATIONS SHOWN.
- D. INSTALLATION:
- THE VIDEO SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - INSTALL CAMERAS AS HIGH AS POSSIBLE ON THE WALL, OR UNDER EAVE, TO PROVIDE FOR GENERAL VIEWS OF THE SURROUNDING AREA.
  - CONFIRM DESIRED FIELD OF VIEW WITH OWNER PRIOR TO ROUGH-IN.
  - ALL CAMERA CABLING INSIDE OF THE BUILDING SHALL BE INSTALLED IN CONDUIT, 3/4" MINIMUM.

## 28 46 00 - FIRE DETECTION AND ALARM

- A. SUMMARY: THIS SECTION INCLUDES CONTRACTOR DESIGNED AND INSTALLED EXTENSION OF THE EXISTING ADDRESSABLE FIRE ALARM AND SMOKE DETECTION SYSTEM. THIS IS A PERFORMANCE TYPE SPECIFICATION DESCRIBING THE MINIMUM ACCEPTABLE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL DESIGN AND INSTALL THE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72 AND ADAG. THE FIRE ALARM DEVICES ON THE DRAWINGS ARE SHOWN IN SUGGESTED LOCATIONS. THE FINAL LOCATIONS OF ALL DEVICES SHALL BE SOLELY DETERMINED BY THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH NFPA 72 AND ADAG. ALL NEW DEVICES ADDED TO THE EXISTING FIRE ALARM CONTROL PANEL SHALL BE UL LISTED FOR OPERATION ON THE EXISTING PANEL.
- B. SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR APPROVAL.
- C. MATERIALS:
- MANUFACTURER: MATCH EXISTING TYPE.
  - FIRE ALARM STROBE LIGHTS: NFPA 72 COMPLIANT, FLUSH WALL OR CEILING MOUNTED, SELF-SYNCHRONIZING, XENON, FIRE ALARM STROBE LAMP AND FLASHER WITH FLASHRATE OF ONE FLASH PER SECOND, COMPLYING WITH THE REQUIREMENTS OF ADAG. PROVIDE RED LETTERED FIRE ALARM ON CLEAR LENS. THE STROBE SHALL BE FIELD-SELECTABLE TO PROVIDE 15, 30 75, OR 110 CANDELA SYNCHRONIZED FLASH OUTPUTS.
  - FIRE ALARM HORN: ANSI S3.41 AND NFPA 72 COMPLIANT, FLUSH [SURFACE] MOUNTED FIRE ALARM HORN WITH ADJUSTABLE SOUND OUTPUT LEVEL. SOUND RATING: 87 DBA (REVERBERANT) AT 10 FEET ON THE "HIGH" SETTING AND 82 DBA (REVERBERANT) AT 10 FEET ON THE "LOW" SETTING. PROVIDE MINIMUM SOUND PRESSURE LEVEL OF 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN EVERY OCCUPIED SPACE WITHIN THE BUILDING. PROVIDE INTEGRAL FIRE ALARM STROBE LIGHT AS SPECIFIED ABOVE WHERE INDICATED ON THE DRAWINGS.
  - MANUAL PULL STATION: FLUSH MOUNTED, SINGLE ACTION ADDRESSABLE MANUAL STATION, WITH BREAKGLASS ROD.
  - FIRE ALARM SYSTEM POWER BRANCH CIRCUITS: BUILDING WIRE AS SPECIFIED IN SECTION 26 05 19.
  - NOTIFICATION APPLIANCE CIRCUITS: MINIMUM #12 AWG COPPER BUILDING WIRE, AS SPECIFIED IN SECTION 26 05 19.
  - INITIATING AND SIGNALING LINE CIRCUITS: TWISTED, SHIELDED OR UNSHIELDED FIRE ALARM CABLE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. MINIMUM SIZE #16 AWG.
- D. INSTALLATION:
- THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - INSTALL AUDIBLE AND VISUAL SIGNAL DEVICES 80 INCHES ABOVE THE FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
  - TEST IN ACCORDANCE WITH NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS. PROVIDE A COMPLETED NFPA 72 INSPECTION AND TESTING FORM FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUAL AT THE COMPLETION OF TESTING AND COMMISSIONING THE FIRE ALARM SYSTEM.
  - INSTALL FIRE ALARM WIRING IN A DEDICATED RACEWAY SYSTEM PER SECTION 26 05 33 AND 26 05 19.



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**ANCHORAGE SENIOR CENTER  
GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE: 5/27/22

DRAWN: LKA

CHECKED: JAM,PCC

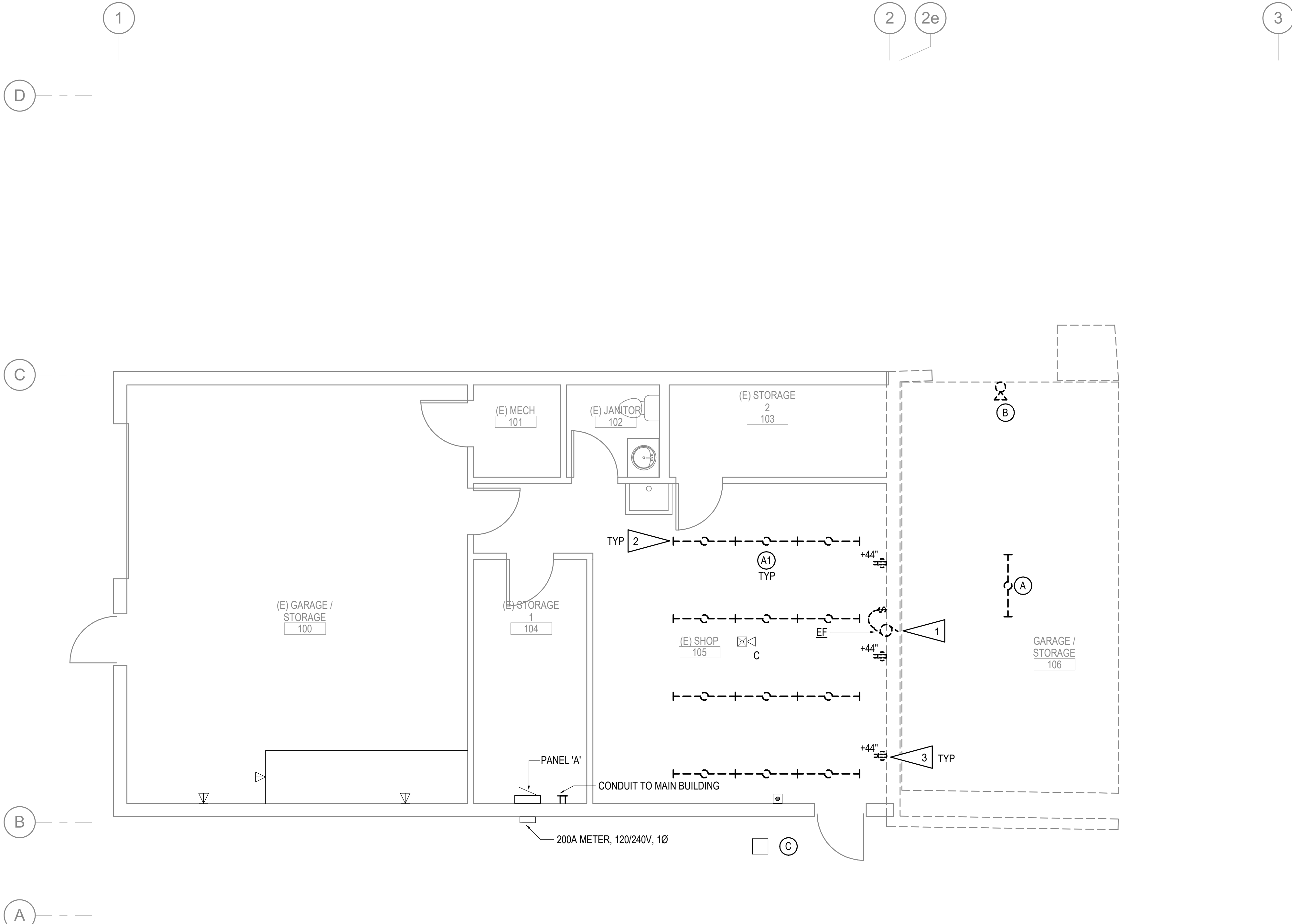
PROJECT: M1236

DRAWING TITLE:  
ELECTRICAL  
SPECIFICATIONS

REVISIONS:

SHEET NO:

**E002**



**GENERAL NOTES:**

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS DATED 8/16/83 AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

**SHEET NOTES:**

- 1. DEVICE TO BE RELOCATED. SALVAGE CIRCUIT.
- 2. COORDINATE WITH ARCHITECTURAL FOR NUMBER OF LIGHTS TO BE RELOCATED. SALVAGE LIGHT FIXTURE AND CIRCUIT FOR RE-USE.
- 3. SALVAGE CIRCUIT FOR CONNECTION TO NEW DEVICES.



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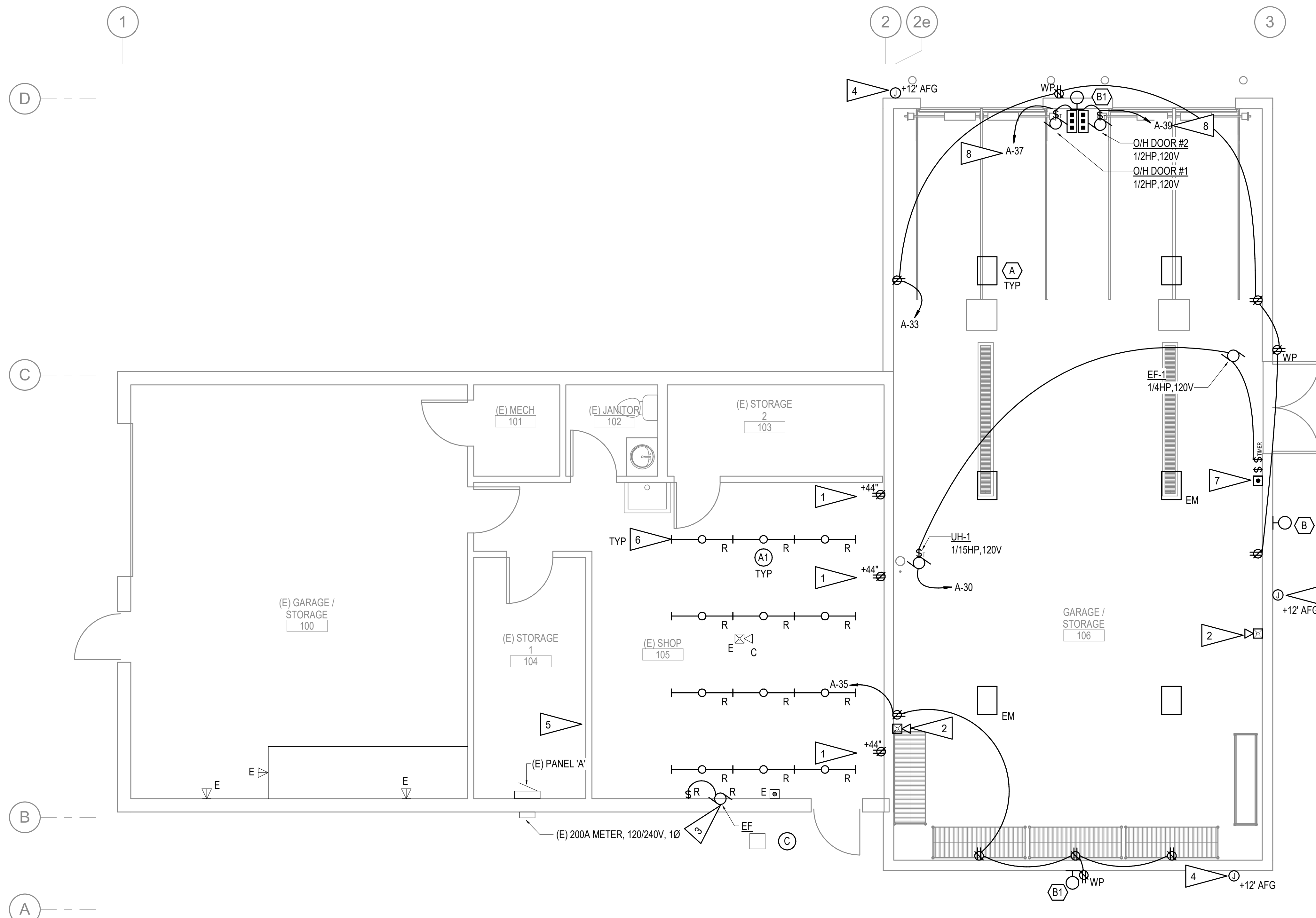
DATE:	5/27/22
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CHECKED:	JAM,PCC
PROJECT:	M1236
DRAWING TITLE:	ELECTRICAL DEMOLITION
REVISIONS:	
SHEET NO:	

**E101**

**1 ELECTRICAL DEMOLITION PLAN**  
 1/4" = 1'-0"







**GENERAL NOTES:**

- A. ALL NEW LIGHTING SHALL BE CONNECTED TO CIRCUIT A-31. CONTROLS ARE NOT SHOWN BUT SHALL BE PROVIDED BY THE ELECTRICIAN TO ACCOMMODATE SWITCHING AS SHOWN.
- B. MOUNT ALL RECEPTACLE DEVICES IN THE GARAGE/STORAGE 106 24" AFF.

**SHEET NOTES:**

- 1. PROVIDE EXTENSION OF CONDUIT AND CONDUCTORS AND RECONNECT TO NEW DEVICE.
- 2. PROVIDE EXTENSION OF EXISTING NOTIFICATION CIRCUIT TO NEW DEVICE IN NEW LOCATION. PROVIDE JUNCTION BOXES, CONDUIT, AND WIRE TO MATCH EXISTING FIRE ALARM CIRCUIT AS REQUIRED.
- 3. EXTEND EXISTING CIRCUIT AND CONNECT TO RELOCATED DEVICE/EQUIPMENT. PROVIDE JUNCTION BOXES, CONDUIT, AND WIRE AS REQUIRED.
- 4. JUNCTION BOX FOR FUTURE VIDEO CAMERA PROVIDE 3/4" CONDUIT, BOXES, AND PULLSTRING TO STORAGE 104.
- 5. CONDUIT FOR FUTURE CAMERAS SHALL BE ROUTED HERE, LEAVE OPEN AT 72" AFF.
- 6. REINSTALL FIXTURES AT OR NEAR EXISTING LOCATIONS TO ACCOMMODATE THE DEMOLITION OF TRUSS ACCORDING TO ARCHITECTURAL.
- 7. PROVIDE EXTENSION OF EXISTING SIGNALING LINE CIRCUIT TO NEW DEVICE IN NEW LOCATION. PROVIDE JUNCTION BOXES, CONDUIT, AND WIRE TO MATCH EXISTING FIRE ALARM CIRCUIT AS REQUIRED.
- 8. PROVIDE CIRCUIT TO O/H DOOR, PROVIDE CONNECTION TO CONTROLS, SAFETY DEVICES, AND MOTOR. PROVIDE DISCONNECT AND PUSHBUTTON CONTROLS.

**1 ELECTRICAL REMODEL PLAN**  
1/4" = 1'-0"



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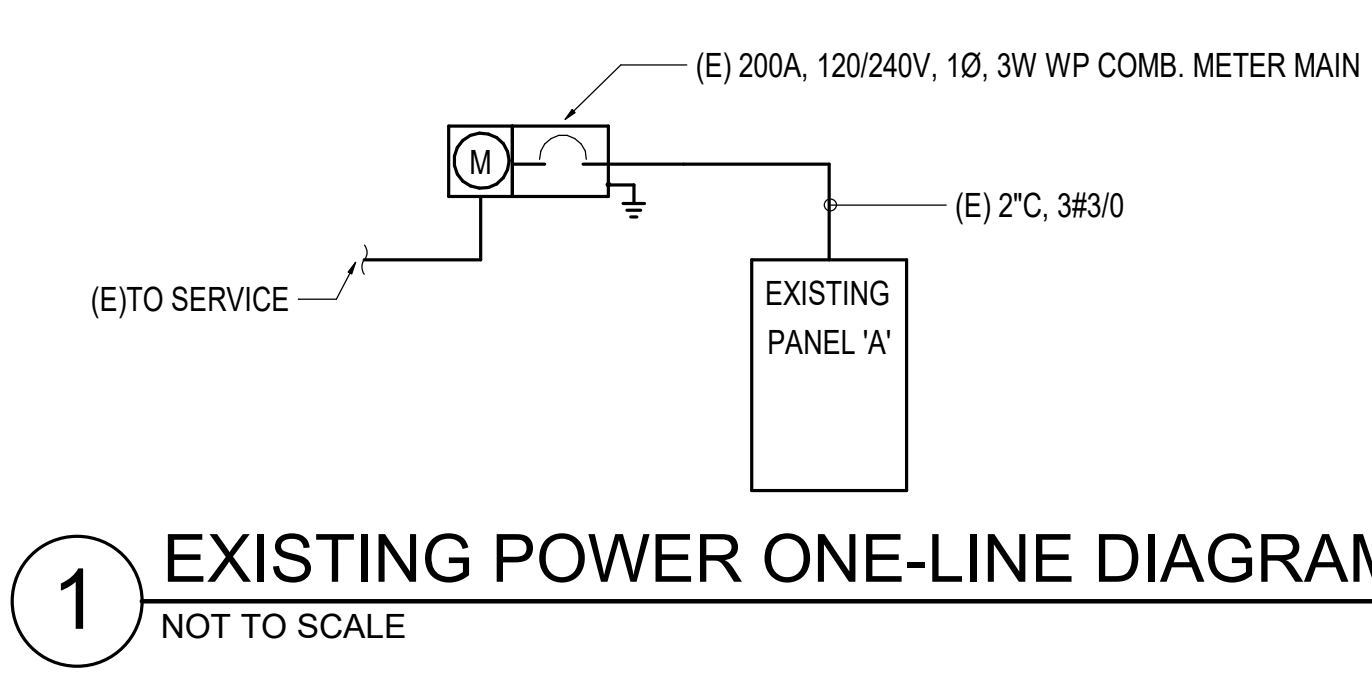
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GARAGE ADDITION**  
ANCHORAGE, ALASKA

DATE:	1/12/23
DRAWN:	LKA
CHECKED:	JAM,PCC
PROJECT:	M1236
DRAWING TITLE:	ELECTRICAL REMODEL
REVISIONS:	
SHEET NO:	<b>E201</b>

## ELECTRICAL LOAD CALCULATION

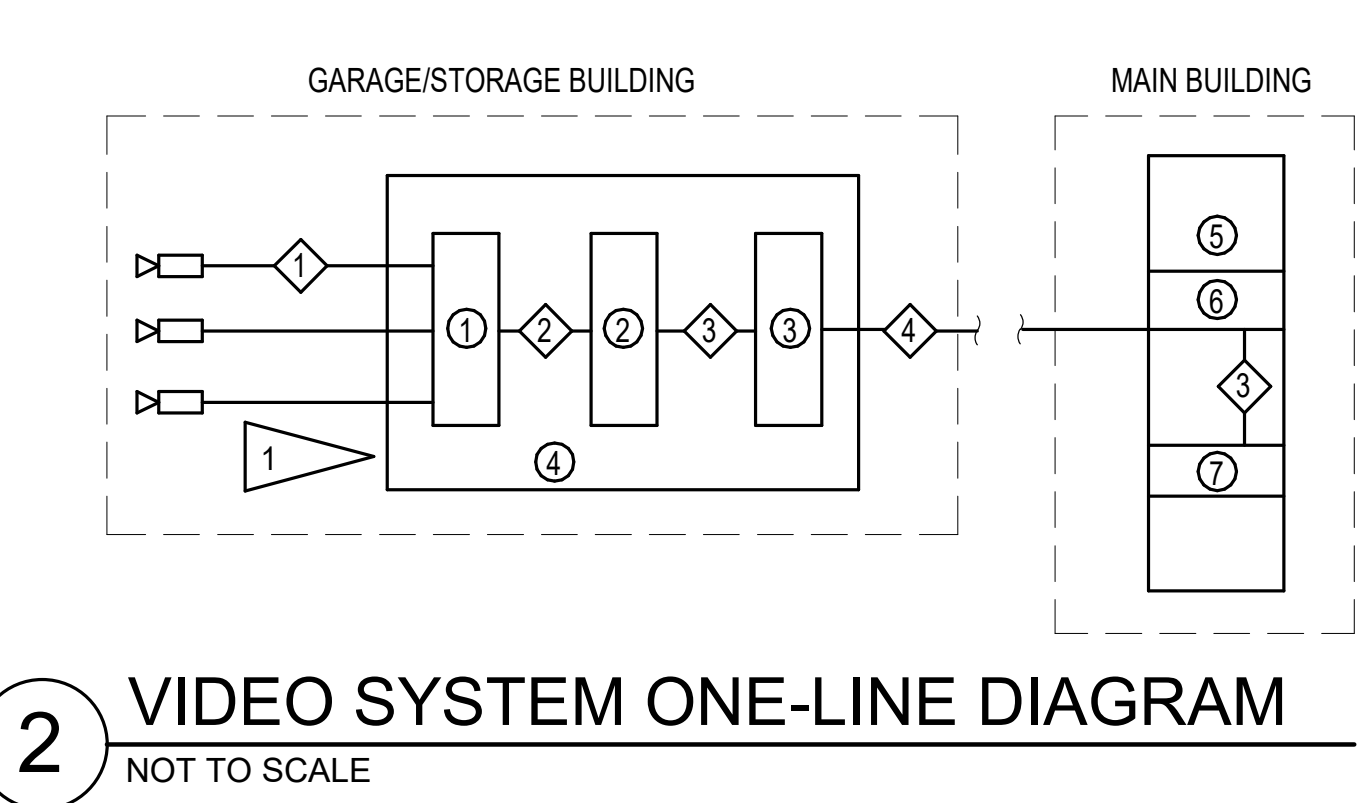
<b>EXISTING SERVICE SIZE:</b>		<b>200 A, 240 V, 1 PH</b>
PEAK KW DEMAND - PAST 12 MO (NOVEMBER, 2021):	4.844	KW
ASSUMED POWER FACTOR:	0.85	PF
EXISTING PEAK DEMAND (IN KVA):	5.7	KVA
125% OF PEAK LOAD (NEC 220.87)	7.12	KVA
<b>EXISTING PEAK DEMAND (IN AMPS):</b>	<b>30</b>	<b>A</b>
EXISTING SPARE CAPACITY:	170	A
EXISTING LOADS REMOVED (IN KVA):		
LIGHTING	0.26	KVA
RECEPTACLES	0.54	KVA
SUBTOTAL:	0.8	KVA
TOTAL LOADS REMOVED:		
	-0.8	KVA
<b>TOTAL LOADS REMOVED (IN AMPS):</b>	<b>-3</b>	<b>A</b>
NEW LOADS ADDED (IN KVA)		
LIGHTING	0.474	KVA
O/H DOOR x3	3.528	KVA
RECEPTACLES	1.8	KVA
EF-1	0.156	KVA
UH1	0.25	KVA
UH-2	0.25	KVA
ELECTRICAL TRAP PRIMER	0.12	KVA
SUBTOTAL:	6.578	KVA
TOTAL LOADS ADDED:		
	6.578	KVA
<b>TOTAL LOADS ADDED (IN AMPS):</b>	<b>27</b>	<b>A</b>
NET LOAD CHANGE:	5.78	KVA
NET LOAD CHANGE (IN AMPS):	24	A
NEW TOTAL NEC DEMAND LOAD:	12.9	KVA
<b>NEW TOTAL NEC DEMAND LOAD:</b>	<b>54</b>	<b>A</b>
SPARE CAPACITY:	146	A
<b>RESULT: THE EXISTING SERVICE HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED.</b>		

(E)PANEL 'A'													
MFR/MODEL: SQUARE 'D' TYPE NQOB						VOLTS: 120/240V, 1PH, 3W			ENCLOSURE: NEMA 1			200 A	
TYPE: PANELBOARD						VOLT-AMPS			MTG: SURFACE				
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
a	1	1	20	RECEPS	RECP				RECEP AIR COMPRESSOR	20	2	2	a
a	3	1	20	RECEPS	RECP				RECEP	20	2	4	a
a	5	1	20	RECEPS & EX. FAN	RECP				RECEP	20	2	6	a
a	7	1	20	RECEPS	RECP				RECEP	20	2	8	a
a	9	1	20	RECEPS	RECP				RECEP	20	2	10	a
a	11	1	20	RECEPS & EX. FAN	RECP				RECEP	20	2	12	a
a	13	1	20	LIGHTS GARAGE/STORAGE	LTG				RECEP	20	2	14	a
a	15	1	20	LIGHTS GARAGE/STORAGE	LTG				RECEP	20	2	16	a
a	17	1	20	LIGHTS SHOP MECH, BR, ST2	LTG				RECEP	20	2	18	a
a	19	1	20	LIGHTS - SHOP	LTG				RECEP	20	2	20	a
a	21	1	20	LIGHTS - OUTSIDE	LTG				RECEP	20	2	22	a
a	23	1	15	FURNACE	SPEC				RECEP	20	2	24	a
a	25	1	20	HWH	MISC				SPARE	20	2	26	
a	27	1	20	SECURITY ALARM PANEL	MISC				SPARE	20	2	28	
						<b>700</b>							
a	29	1	20	FACP	MISC				UH-1, UH-2, ELECTRIC TRAP PRIMER	15	1	30	b
b	31	1	20	LIGHTING - GARAGE 106	LTG		474	406	LTG LIGHTING - EXTERIOR	20	1	32	b
b	33	1	20	RECEPS - GARAGE 106 N	RECP	900			SPACE	-	1	34	
b	35	1	20	RECEPS - GARAGE 106 S	RECP		900	696	MOTR EF-1	15	1	36	b
b	37	1	20	O/H DOOR #1	MOTR	1,176			SPACE	-	1	38	
b	39	1	20	O/H DOOR #2	MOTR		1,176		SPACE	-	1	40	
b	41	1	20	O/H DOOR #3	MOTR	1,176			SPACE	-	1	42	
TOTAL V-A						3,952		3,652		7,604		VA	
TOTAL AMPS						33		30		32		A	
A.I.C. RATING: 10,000													
PANEL NOTES:									PANEL OPTIONS:				
a EXISTING LOAD TO REMAN.													
b INSTALL NEW CIRCUIT BREAKERS IN SPACE AVAILABLE IN THE EXISTING PANEL. THE NEW CIRCUIT BREAKER SHALL BE COMPATIBLE WITH AND LISTED FOR USE IN THE EXISTING PANEL AND SHALL MATCH MINIMUM SHORT CIRCUIT AIC RATING TO MATCH LOWEST RATED EXISTING DEVICE IN PANEL.													



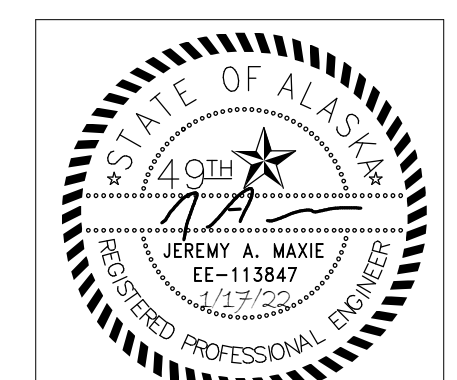
**DETAIL NOTES:**

- NO CHANGE TO POWER DISTRIBUTION SYSTEM. SHOWN FOR REFERENCE ONLY.



CABLE SCHEDULE	
ITEM	DESCRIPTION
1	CATEGORY 6 UTP IN 1" CONDUIT TO CAMERAS
2	CATEGORY 6 PATCH CABLE
3	FIBER OPTIC PATCH CABLE
4	6-STRAND 0S2 INDOOR/OUTDOOR FIBER OPTIC CABLE

EQUIPMENT SCHEDULE	
ITEM	DESCRIPTION
1	24-PORT CATEGORY 6 PATCH PANEL
2	8-PORT POE NETWORK SWITCH
3	FIBER CASSETTE
4	ZONE ENCLOSURE, 5RU MINIMUM
5	EXISTING TELECOM RACK
6	NEW FIBER CONNECTOR HOUSING
7	EXISTING NETWORK SWITCH



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DATE: 5/27/22  
DRAWN: LKA  
CHECKED: JAM,PCC  
PROJECT: M1236  
DRAWING TITLE:  
ELECTRICAL DETAILS

REVISIONS:

SHEET NO:  
**E301**