YOST GRUBE HALL
ARCHITECTURE

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Addendum 1

To: Megan Finch, Beaverton School District

From: Allison Miller

Project: BSD – Raleigh Park HVAC and Electrical Upgrades
YGH Job #19-0012

Subject: Addendum 1

Date: 16-March-2020

The following changes to the Drawings and Specifications constitute this addendum. All changes included in Addenda become part of the Contract Documents for this project. Any changes herein supercede only the specific drawings, words, or paragraphs mentioned and the balance of the Drawings and Specifications remain in full force.

Careful note of this addendum shall be taken by all parties of interest so that proper allowance is made in all computations, estimates, and contracts, and so that all trades affected are fully advised in the performance of work that will required of them.

In the following clarifications, incorrect items revised or omitted with corrected information following in quotation marks or bold. Items revised in the Specifications are designated by a strikethrough for ~~deleted~~ and underlines for <u>new</u> when the section is reissued. Items revised on drawings are designated by a cloud line and a triangle with the corresponding sheet specific revision number.

Contents:

DRAWING NARRATIVE

GENERAL NOTES –
ADD general note #8
REVISE page reference for typical penetration details in general note #6

SHEET A2.10D –DEMOLITION FLOOR PLAN
ADD note, clarifying relocation of existing fire alarm strobe and power wire mold in library (previously only called out from electrical drawings)

SHEET A2.10 – FIRST FLOOR PLAN
ADD general note #8
REVISE page reference for typical penetration details in general note #6
ADD note to clarify locations of new casework in library

SHEET A2.20 – ROOF PLAN
ADD new rooftop mechanical equipment to legend

SHEET A3.02 – LIBRARY ENLARGED PLANS
ADD general note #8
REVISE page reference for typical penetration details in general note #6
REVISE detail 2 to clarify locations of new and existing casework. Also, note added to clarify design intent to align the top of new and existing casework counter tops
REVISE detail 4 to clarify relocation of existing fire alarm strobe and power wire mold in library (previously only called out from electrical drawings)

SHEET A8.10 – EXTERIOR DETAILS
ADD note to detail 8 to clarify that chain link fence and gate framework is a delegated design submittal
ADD information for prefinished sheet metal end closure piece to detail 10

SHEET A9.10 – INTERIOR DETAILS
ADD note to detail 1 to clarify that the contractor is to determine locations of existing components within the mechanical chaise and reroute if necessary
REVISE detail 6 to clarify new blocking note
REVISE detail 7 to graphically show a welded hollow metal frame to coordinate with detail 8 and the hollow metal door and frame specifications

SHEET E4.01 – ELECTRICAL SCHEDULES & DETAILS
REVISE detail 2 to coordinate with and reference the new geotechnical report attached to this addendum regarding excavation, compaction, and backfill recommendations for the conduit trench

APPENDIX

Geotechnical Letter for conduit trench in paving area

Geotech Solutions Inc.

March 7, 2020 *ygh-20-3-gi*

YGH; jessew@ygh.com

GEOTECHNICAL ENGINEERING SERVICES
Raleigh Park Elementary – trench in paving area

We appreciate the opportunity to present this agreement for geotechnical services for the trench under the bus paving area at Raleigh Park Elementary in Beaverton, Oregon. We understand the trench is to be located in the asphalt concrete paving area. The purpose of our work was to evaluate nearby soil conditions and provide recommendations for trench backfill and compaction. Our services include the following scope:

- Provide principal level geotechnical project management, including project field coordination, client communications, and review of analyses, report writing, and invoicing.
- Review provided plans and geotechnical reports, and maps available in our files.
- Complete a site reconnaissance and shallow soil sample at a nearby accessible location.
- Provide recommendations for trench backfill materials and compaction.
- Summarize the preceding recommendations in a PE/GE stamped letter report.

SITE OBSERVATIONS AND CONDITIONS

Surface Conditions

The property is located east of SW 78th Avenue with the improvement areas off the northwest corner of the existing building. The area abutting the building is paved, with grassy areas and outbuildings to the northwest. A roughly 40 feet high moderate 3-3.5H:1V forested slope is present down to the north, roughly 15 feet north of the outbuildings. No obvious signs of instability were noted. The site surface in that vicinity may have been filled in the past, prior to aerial photos viewed since 1999.

Subsurface Conditions

General – Subsurface conditions at the site were explored on March 7, 2020 by completing one hand auger to a depth of 4 feet roughly 10 feet north of the northwest corner of the building in grass.

Soil conditions included 5 inches of medium dense gray-brown rooty gravel fill with some silt, overlying soft to medium stiff brown and light brown silt fill to depths of 1.5 feet, in turn underlain by medium stiff light brown slightly mottled silt to the 4 foot depths explored. No seepage or caving was noted.

CONCLUSIONS AND RECOMMENDATIONS

Utility trenches may encounter seasonal perched ground water seepage although flow rates are expected to be modest in the low permeability soils. Shoring of utility trenches will be required for depths greater than 4 feet and where groundwater seepage is present. We recommend that the type and

20978 S Springwater Road, Estacada, OR 97023 *p 503.869.8679; don@geotechsolutionsinc.com*

design of the shoring system be the responsibility of the contractor, who is in the best position to choose a system that fits the overall plan of operation.

Pipe bedding must be installed in accordance with the pipe manufacturers' recommendations. If groundwater is present in the base of the utility trench excavation, we recommend overexcavating the trench by 12 inches and placing trench stabilization material in the base. Trench stabilization material must consist of well-graded, crushed rock or crushed gravel with a maximum particle size of 4 inches and be free of deleterious materials. The percent passing the U.S. Standard No. 200 Sieve must be less than 5 percent by weight when tested in accordance with ASTM C 117.

Trench backfill above the pipe zone must consist of well graded, angular crushed rock. Crushed recycled concrete, or sand fill with no more than 7 percent passing a #200 sieve. Trench backfill must be compacted to 92 percent relative to ASTM D-1557, and construction of hard surfaces, such as sidewalks or pavement, must not occur within one week of backfilling. The preceding trench backfill will provide suitable subgrade support for asphalt concrete and base rock pavements with thicknesses designed for bus traffic.

LIMITATIONS AND OBSERVATION DURING CONSTRUCTION

We have prepared this report for use by YGH and the design and construction teams or this project only. The information herein could be used for bidding or estimating purposes but must not be construed as a warranty of subsurface conditions. We have made observations only at the aforementioned locations and only to the stated depths. These observations do not reflect soil types, strata thicknesses, water levels or seepage that may exist between observations. We must be consulted to observe all foundation bearing surfaces, subgrade stabilization, proof rolling of slab and pavement subgrades, installation of structural fill, subsurface drainage, and cut and fill slopes. We must be consulted to review final design and specifications in order to see that our recommendations are suitably followed. If any changes are made to the anticipated locations, loads, configurations, or construction timing, our recommendations may not be applicable, and we must be consulted. The preceding recommendations must be considered preliminary, as actual soil conditions may vary. In order for our recommendations to be final, we must be retained to observe actual subsurface conditions encountered. Our observations will allow us to interpret actual conditions and adapt our recommendations if needed.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted practices in this area at the time this report was prepared. No warranty, expressed or implied, is given.

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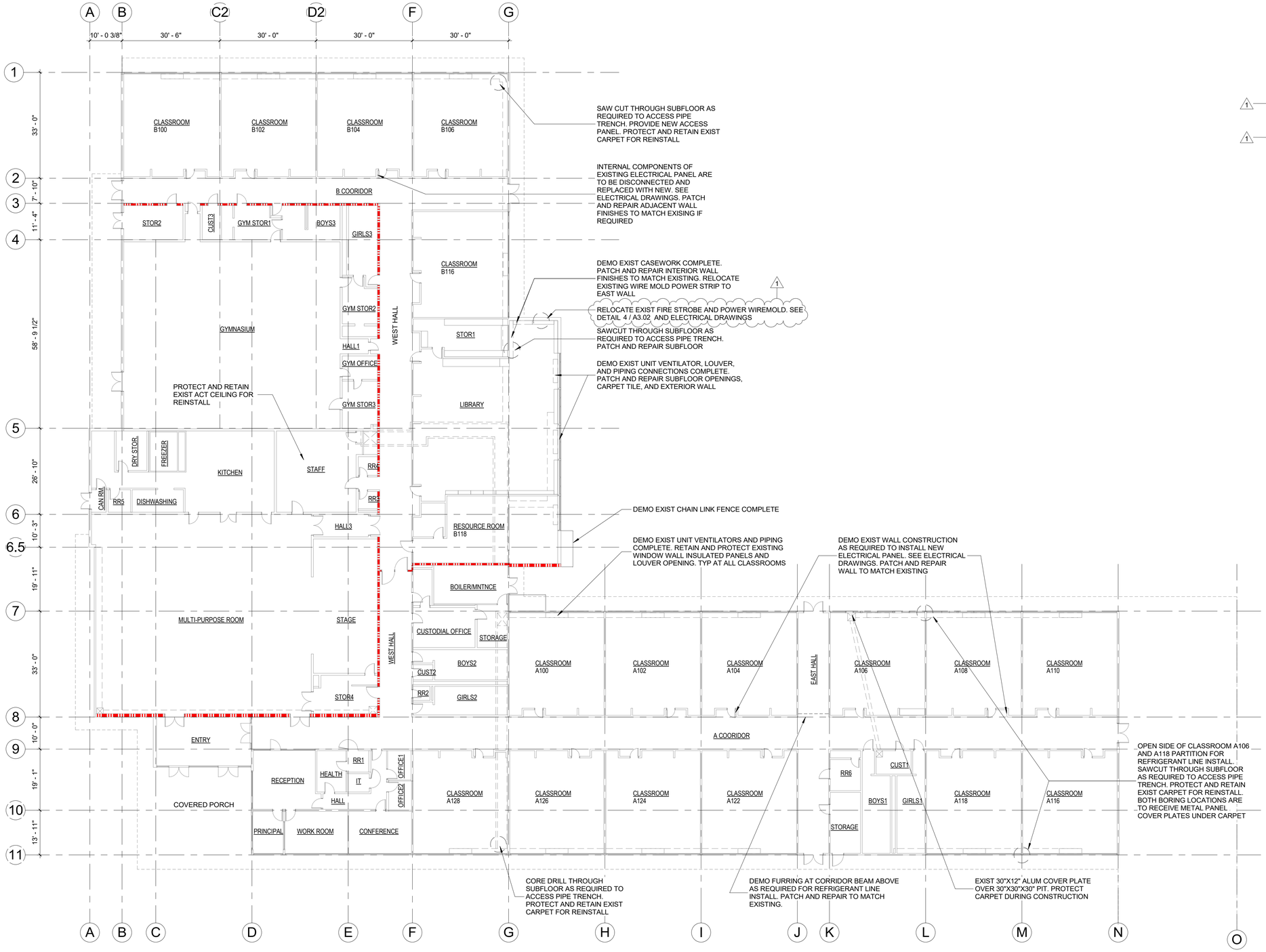
We appreciate the opportunity to work with you on this project and look forward to our continued involvement. Please call if you have any questions.

Sincerely,

Don Rondema, MS, PE, GE
Principal

20978 S Springwater Road, Estacada, OR 97023 *p 503.869.8679; don@geotechsolutionsinc.com*



1 FIRST FLOOR - DEMOLITION PLAN
1/16" = 1'-0"

GRAPHIC SCALE: 1/16" = 1'-0"
0' 8' 16' 32' 64'

GENERAL NOTES

1. ARCHITECTURAL ELEVATIONS ARE BASED ON MAIN FLOOR LEVEL 100'-0"
2. WHERE ENLARGED PLANS ARE PROVIDED, DETAILED DIMENSIONS AND OTHER INFORMATION WILL BE FOUND ON THE ENLARGED PLAN, U.O.I.
3. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF FINISH UNLESS OTHERWISE INDICATED.
4. DIMENSIONS ARE TO FACE OF STRUCTURE OR TO GRIDLINES OR TO REFERENCED DIMENSION POINT (DIM PT).
5. CONTRACTOR TO COORDINATE AND VERIFY THAT THE TRANSITION OF MATERIALS PROVIDES FOR A CONTINUOUS WEATHER TIGHT ENVELOPE WHERE DIFFERENT TRADES ARE RESPONSIBLE FOR WEATHER TIGHT CONSTRUCTION OF THE EXTERIOR ENVELOPE.
6. REFER TO A9.10 FOR TYPICAL PENETRATION DETAILS.
7. REFER TO FIG. 1 ASBESTOS ABATEMENT MATERIAL LOCATION MAP. SEE THE FULL TRC ASBESTOS REPORT FOR ADDITIONAL INFORMATION.
8. CONTRACTOR TO DETERMINE LOCATIONS OF EXISTING COMPONENTS IN MECHANICAL CHAISES AND TUNNELS. REROUTE EXISTING COMPONENTS IF NECESSARY.

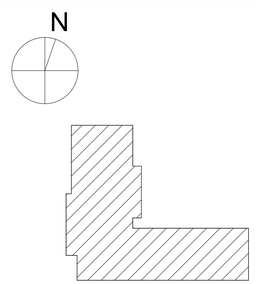
SHEET NOTES

1. PROVIDE A SMOOTH TRANSITION WHERE WORK ABUTS OR TERMINATES IN A FLUSH CONDITION WITH EXISTING WORK. WHERE EXISTING FINISHES MUST BE CUT OR REMOVED, METHODS WHICH TERMINATE SURFACES IN A STRAIGHT, NEAT LINE SHALL BE USED. TERMINATION OF AN EXISTING SURFACE SHALL BE MADE IN A LOCATION WHICH SERVES AS A NATURAL POINT OF DIVISION. REPAIRS OR PATCHES TO EXISTING WORK SHALL MATCH ADJACENT EXISTING CONDITION IN TEXTURE AND FINISH AND MAINTAIN THE EXISTING RATING.
2. REMOVE ALL POWER SIGNAL SWITCHING AND OTHER PERTINENT ITEMS FROM WALLS TO BE DEMOLISHED. ABANDONED WIRING SHALL BE REMOVED TO SOURCE.
3. DEMOLITION IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLAN. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. GENERAL ITEMS FOR DEMOLITION ARE INDICATED ON DRAWINGS. ALL ITEMS NOT SPECIFICALLY SHOWN THAT ARE LOCATED IN AREAS OR WALLS INDICATED TO BE DEMOLISHED ARE TO BE REMOVED AND/OR RELOCATED AS REQUIRED.
4. **CONTRACTOR IS TO COORDINATE WITH THE OWNER ANY INTERRUPTIONS OF TELEPHONE AND COMMUNICATIONS, ELECTRICAL, MECHANICAL, PLUMBING OR FIRE PROTECTION SERVICES WHICH AFFECT THE OPERATION OF THE REMAINING PORTION OF THE FACILITY. ANY INTERRUPTIONS TO THESE SERVICES ARE TO BE SCHEDULED IN ADVANCE AND THE DURATION IS TO BE HELD TO THE ABSOLUTE MINIMUM.**
5. SALVAGE ALL CASEWORK FOR REUSE WHERE POSSIBLE IN NEW LAYOUT OR RETURN TO BUILDING MANAGEMENT/ OWNER FOR REUSE.
6. PARTITIONS, DOORS, FRAMES, RELITES AND ITEMS SHOWN DASHED ARE TO BE REMOVED OR RELOCATED AS NOTED.

LEGEND

- EXISTING WALL
- NEW WALL
- EXISTING 2 HOUR RATED WALL
- EXISTING UTILITY TUNNEL
- ROOF LINE OVERHEAD

KEY PLAN



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Project
BSD RALEIGH PARK HVAC AND ELECTRICAL UPGRADE
RALEIGH PARK ELEMENTARY SCHOOL
3670 SW 78TH AVE
PORTLAND, OR 97225

MARK	DATE	DESCRIPTION
1	03/16/20	ADDENDUM 1

Sheet Title
FIRST FLOOR
DEMOLITION PLAN

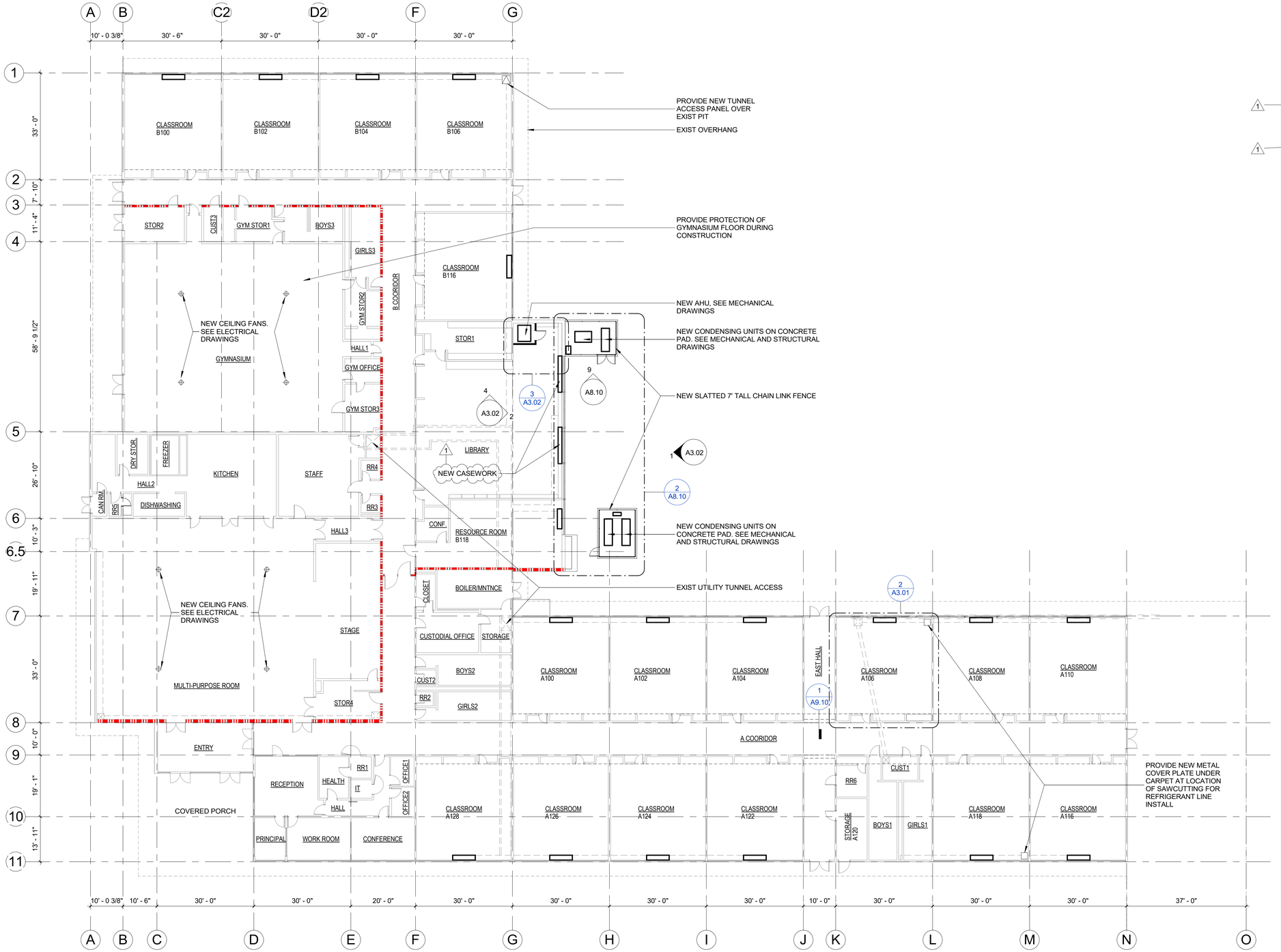
Drawing No.
A2.10D

Scale As indicated

Date MARCH 04, 2020

Project No. 19-0012

3/16/2020 11:42:34 AM



1 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

GRAPHIC SCALE: 1/16" = 1'-0"
0' 8' 16' 32' 64'

GENERAL NOTES

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5. CONTRACTOR TO COORDINATE AND VERIFY THAT THE TRANSITION OF MATERIALS PROVIDES FOR A CONTINUOUS WEATHER TIGHT ENVELOPE WHERE DIFFERENT TRADES ARE RESPONSIBLE FOR WEATHER TIGHT CONSTRUCTION OF THE EXTERIOR ENVELOPE.
6. REFER TO A9.10 FOR TYPICAL PENETRATION DETAILS.
7. REFER TO FIG. 1 ASBESTOS ABATEMENT MATERIAL LOCATION MAP. SEE THE FULL TRC ASBESTOS REPORT FOR ADDITIONAL INFORMATION.
8. CONTRACTOR TO DETERMINE LOCATIONS OF EXISTING COMPONENTS IN MECHANICAL CHAISES AND TUNNELS. REROUTE EXISTING COMPONENTS IF NECESSARY.

SHEET NOTES

1. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.
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4. PROVIDE SHOP DRAWINGS OF ANY FINISHES, MATERIALS AND ASSEMBLIES PRIOR TO PROCUREMENT INCLUDING, BUT NOT LIMITED TO, MILLWORK, CARPET SEAMING, FABRIC WALL PANELS, WINDOW COVERINGS, ETC.
5. ALL MILLWORK SHALL CONFORM TO ARCHITECTURAL WOODWORKING INSTITUTE (AWI) PREMIUM GRADE. ALL LAMINATE CASEWORK TO CONFORM TO AWI CUSTOM GRADE.

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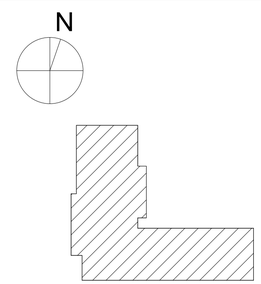

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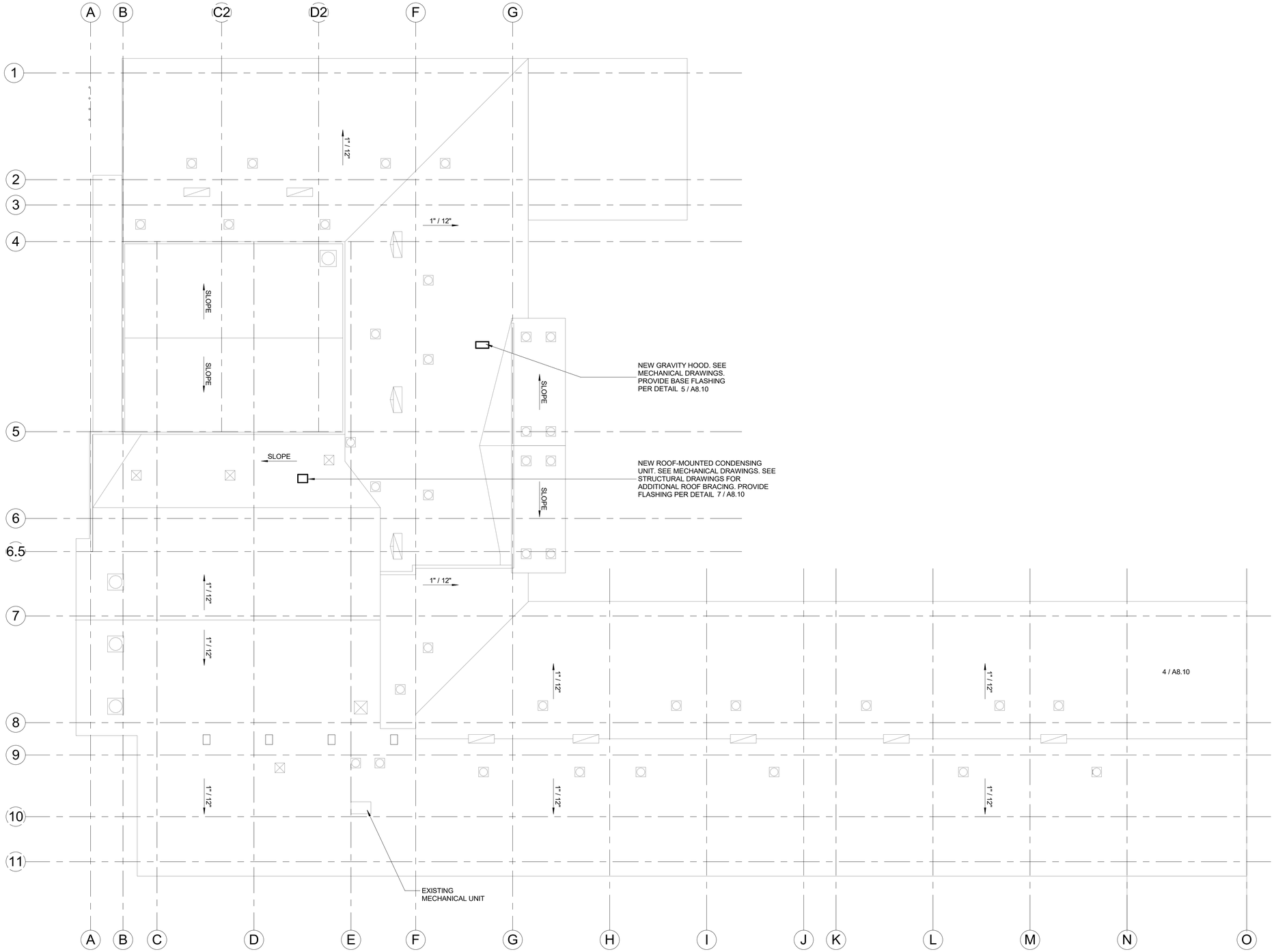
3/16/2020 11:42:33 AM



1 ROOF PLAN
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0' 8' 16' 32' 64'

3/16/2020 11:42:34 AM

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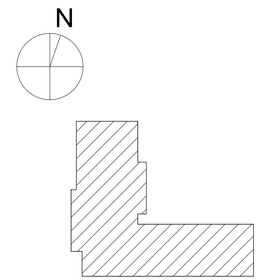
SHEET NOTES

1. PROVIDE POSITIVE DRAINAGE TO ROOF DRAINAGE. CONTRACTOR TO PROVIDE CRICKETS AS NECESSARY TO MAINTAIN THE MANUFACTURER'S WARRANTY
2. DRAWING INDICATES MAJOR ROOFTOP EQUIPMENT AND PENETRATIONS. CONTRACTOR TO PROVIDE AND COORDINATE FLASHING DETAILS TO MAINTAIN MANUFACTURERS' WARRANTIES FOR PENETRATIONS
3. PAINT ALL ROOFTOP EQUIPMENT, DUCTWORK, VENTS, PIPING AND APPURTENANCES. COLOR SELECTED BY ARCHITECT

LEGEND

- VALLEY / RIDGE / VALLEY — ROOF CRICKET
- RD — ROOF DRAIN
- 1/4" / 12" — ROOF SLOPE
- EXISTING ROOF VENT
- EXISTING ROOF FAN
- WS — SCUPPER
- 1 — NEW ROOFTOP MECHANICAL EQUIPMENT
- EXIST CURBED SKYLIGHT

KEY PLAN



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ROOF PLAN

Drawing No.
A2.20

Scale As indicated

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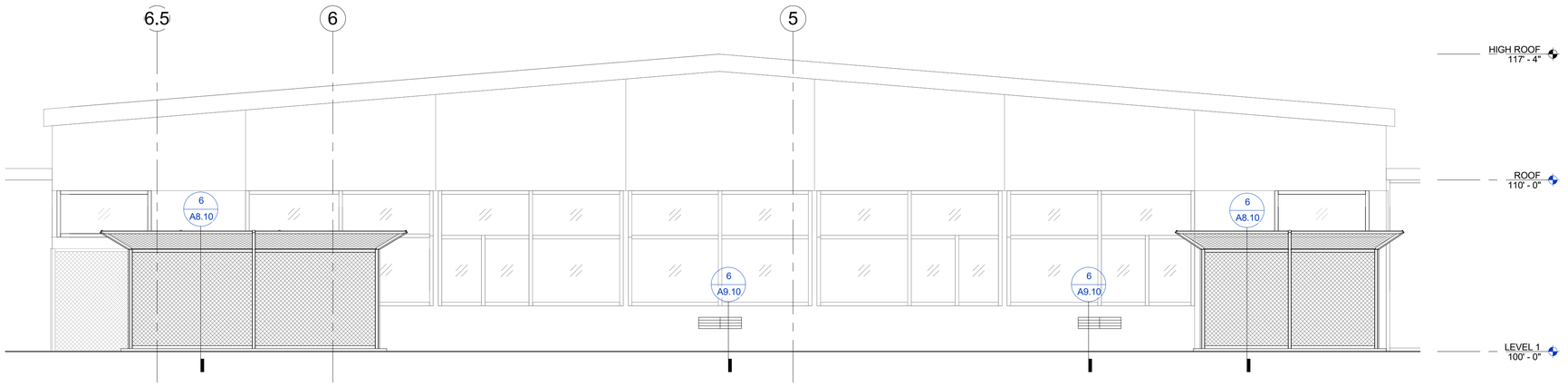
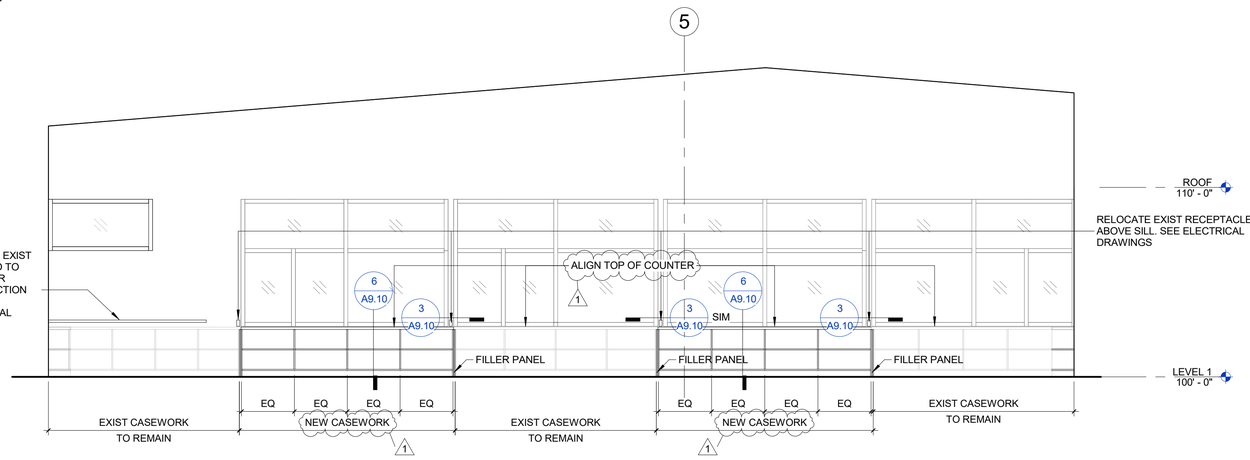
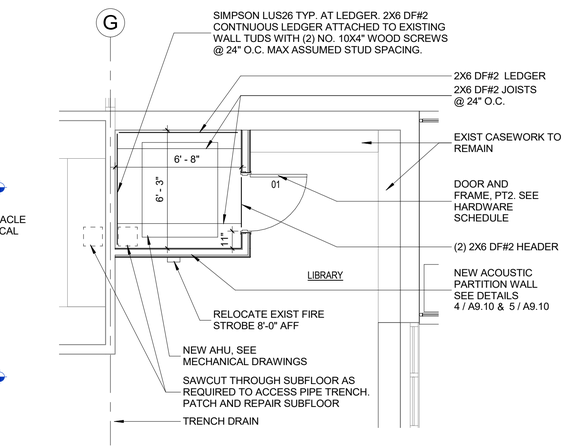
Project No. 19-0012



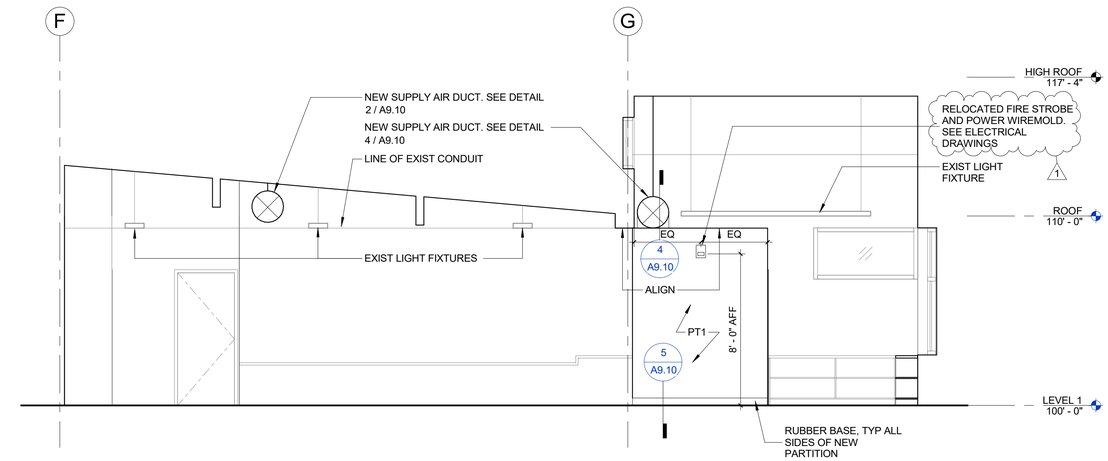
1 EXTERIOR ELEVATION - LIBRARY
1/4" = 1'-0"



2 INT ELEVATION - LIBRARY EAST
1/4" = 1'-0"



3 ENLARGED PLAN - LIBRARY / RESOURCE ROOM
1/4" = 1'-0"



4 INT ELEVATION - LIBRARY NORTH
1/4" = 1'-0"

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HARDWARE SCHEDULE #01

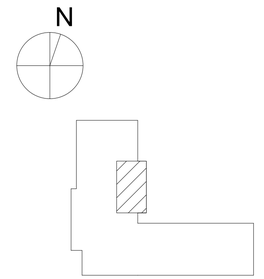
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1 EA	STOREROOM LOCK	ND80TD RHO	626	SCH
2 EA	FSIC CORE	23-030	626	SCH
1 EA	SURFACE CLOSER	4011 TBWMS	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	GASKETING	870AA-S	AA	ZER
SET	SEALS	S88D 20'	DKB	PEM
1 EA	DOOR BOTTOM	365AA	AA	ZER
1 EA	THRESHOLD	564A-223	A	ZER

*COORDINATE WITH SOUND DOOR SUPPLIER ON SEALS AND HINGES. MATCH SCHOOL KEYWAY

DOOR SCHEDULE

MARK	TO ROOM	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	RATING	HARD WARE	FRAME MATERIAL	FRAME FINISH	COMMENTS
01	MECHANICAL ENCLOSURE	3' - 0"	7' - 0"	HM	PT2	NR	01	HM	PT2	

KEY PLAN



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MARK	DATE	DESCRIPTION
1	03/16/20	ADDENDUM 1

Sheet Title
LIBRARY ENLARGED PLANS

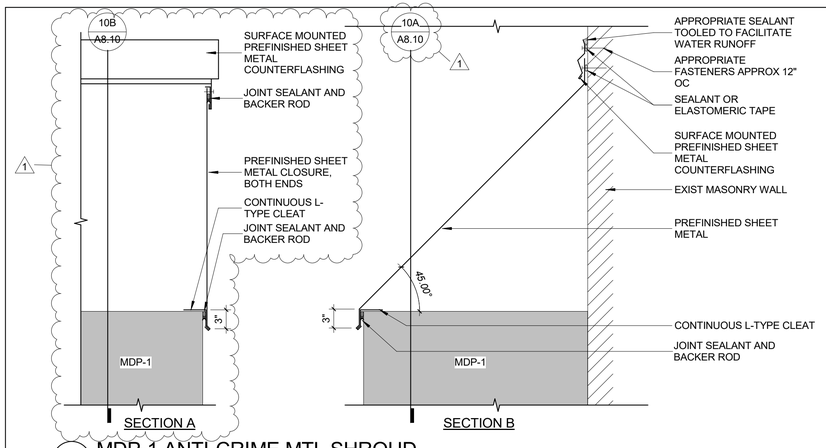
Drawing No.
A3.02

Scale 1/4" = 1'-0"

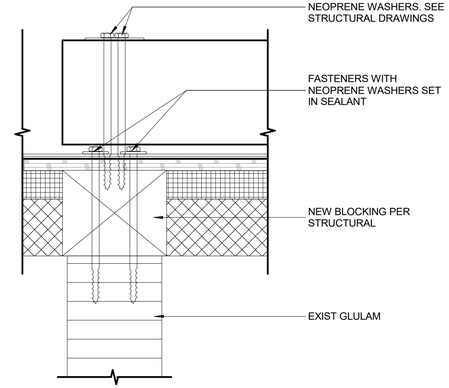
Date MARCH 04, 2020

Project No. 19-0012

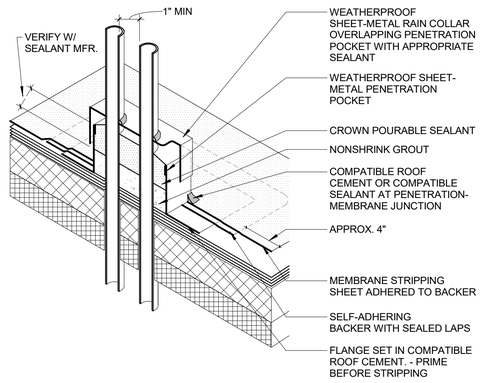
3/16/2020 11:42:34 AM



10 MDP-1 ANTI-CRIME MTL SHROUD
1" = 1'-0"



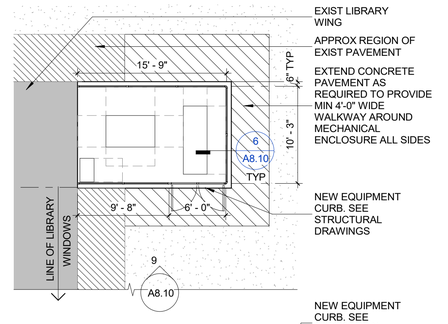
7 PT SLEEPER TO ROOF CONNECTION
3" = 1'-0"

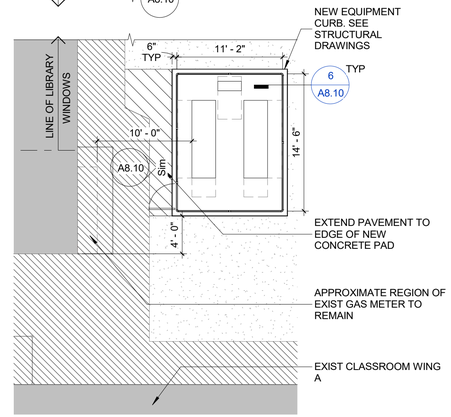


4 TYP PENETRATION @ BUILT-UP ROOF
NTS

ENLARGED SITE PLAN LEGEND

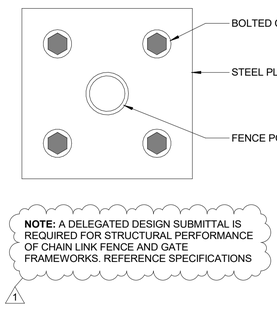
EXISTING PAVEMENT
NEW ASPHALT
NEW PAVEMENT
EXISTING GROUND COVER
EXISTING ASPHALT
NEW CONCRETE PAD



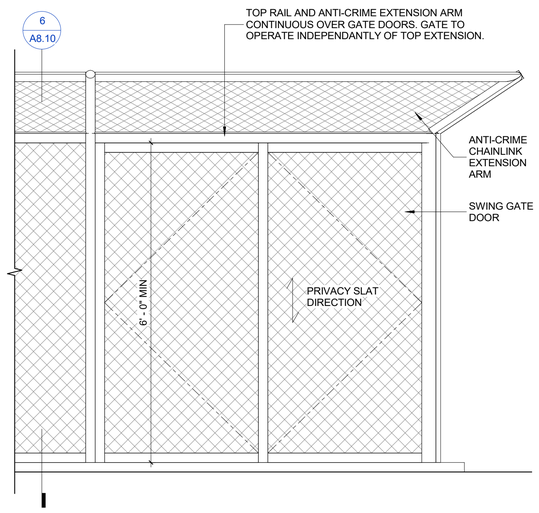


ENLARGED PLAN - MECHANICAL EQUIP ENCLOSURE
1/8" = 1'-0"

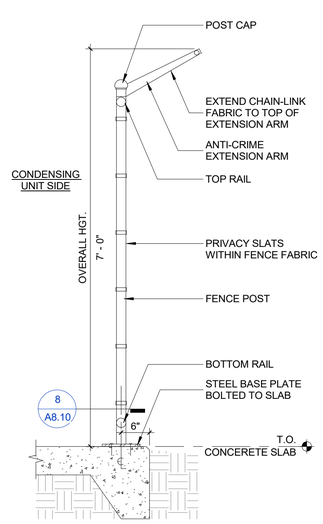
5 BASE FLASHING AT WOOD CURB
NTS



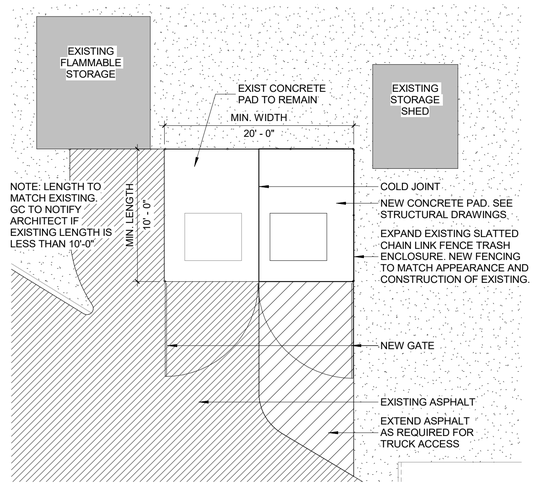
8 TYP. FENCE POST ANCHORAGE
3" = 1'-0"



9 ANTI-CRIME FENCE ELEVATION
3/4" = 1'-0"



6 ANTI-CRIME FENCE
3/4" = 1'-0"



3 ENLARGED PLAN - TRASH ENCLOSURE EXPANSION
1/8" = 1'-0"

BID/PERMIT DOCUMENTS

REGISTERED ARCHITECT
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6448
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Owner
BEAVERTON SCHOOL DISTRICT
CENTRAL ADMINISTRATION CENTER
16550 MERLO ROAD
BEAVERTON, OREGON 97003

Project
BSD RALEIGH PARK HVAC AND ELECTRICAL UPGRADE
RALEIGH PARK ELEMENTARY SCHOOL
3670 SW 78TH AVE
PORTLAND, OR 97225

MARK	DATE	DESCRIPTION
1	03/16/20	ADDENDUM 1

Sheet Title
EXTERIOR DETAILS

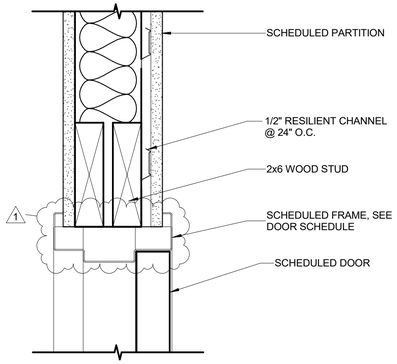
Drawing No.
A8.10

Scale As indicated

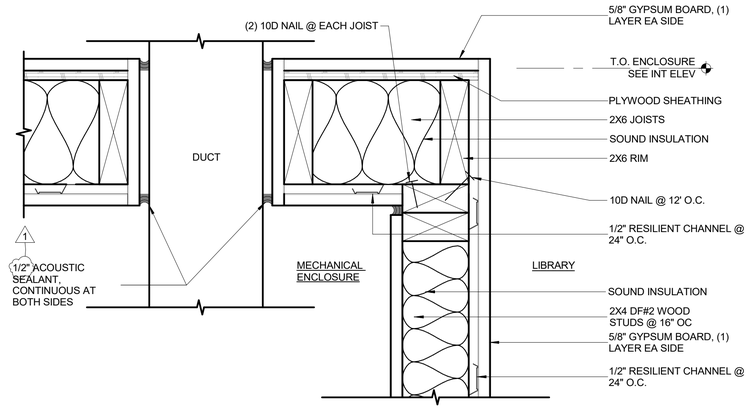
Date MARCH 04, 2020

Project No. 19-0012

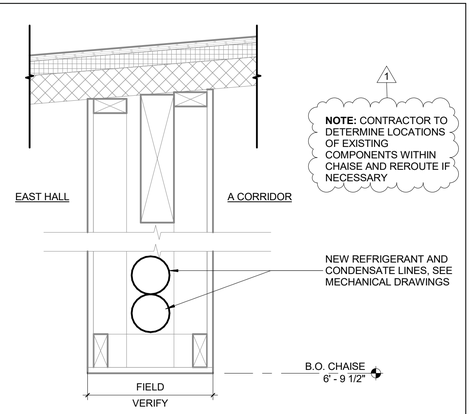
3/16/2020 12:17:10 PM



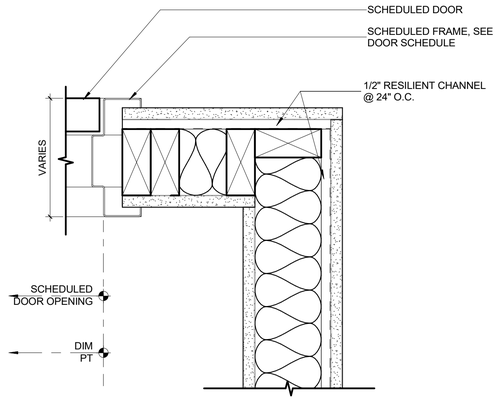
7 HM HEAD AT DOOR
3" = 1'-0"



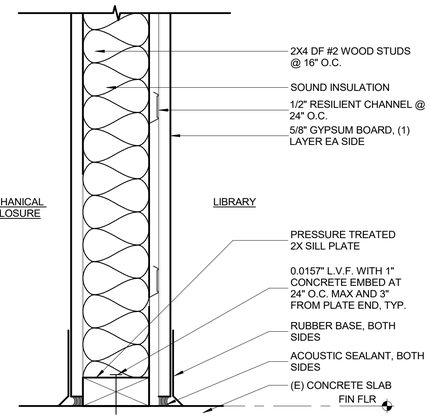
4 HEAD CONDITION AT NEW PARTITION WALL STC 50
3" = 1'-0"



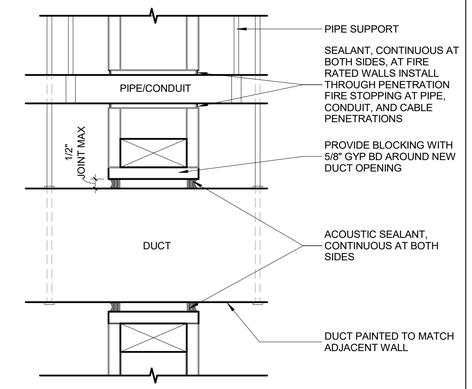
1 FURRING AT CORRIDOR CHASE
1 1/2" = 1'-0"



8 HM JAMB AT DOOR
3" = 1'-0"

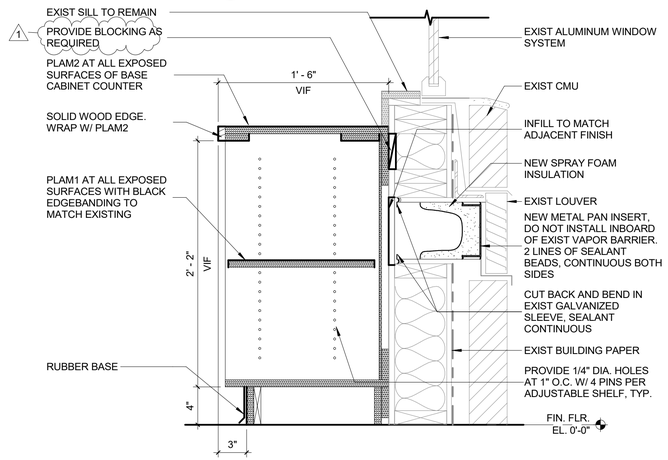


5 BASE CONDITION AT NEW PARTITION WALL STC 50
3" = 1'-0"

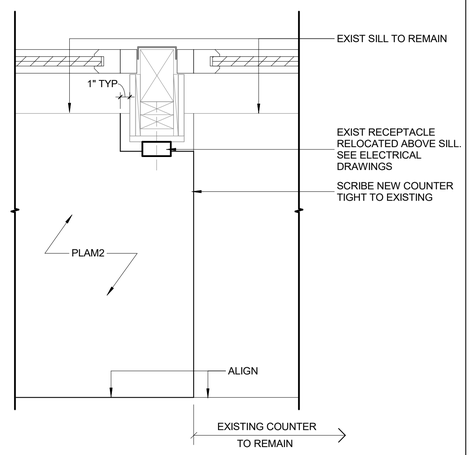


2 TYP PENETRATION AT EXIST PARTITION
3" = 1'-0"

INTERIOR FINISH SCHEDULE		
MATERIAL	LOCATION	BASIS OF DESIGN
PT1	LIBRARY INTERIOR WALLS & EXPOSED DUCTWORK	NO. 8308 "WHISPERING SMOKE"
PT2	LIBRARY DOOR AND FRAME	NO. OW135 "DUBAI SAND"
PT3	CLASSROOM AND HALLWAY WALLS	NO. OW121 "LITTLE FLOWER"
RUBBER BASE	LIBRARY BASE CABINET TOE KICK AND INTERIOR WALLS	HEIGHT: 4", PROFILE: COVE, COLOR: BLACK
PLAM1	LIBRARY BASE CABINET PANELS AND SHELVES	WILSONART NO. D403-60 "WHITE SAND", MATTE. W/ BLACK EDGEBANDING
PLAM2	LIBRARY BASE CABINET COUNTER TOP	MATCH EXISTING



6 BASE CABINET @ EXIST LOUVER
1 1/2" = 1'-0"



3 BASE CABINET - TOP @ EXIST COLUMN
1 1/2" = 1'-0"

BID/PERMIT DOCUMENTS

3/16/2020 11:42:35 AM

REGISTERED ARCHITECT
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MARK	DATE	DESCRIPTION
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Project No. 19-0012

COPPER FEEDER SCHEDULE

TAG	PHASE/NEUTRAL	GROUND	CONDUIT	TAG	PHASE/NEUTRAL	GROUND	CONDUIT
303	(3) #10 THWN	#10 THWN	3/4"	2553	(3) #250 KCMIL THWN	#4 THWN	3"
304	(4) #10 THWN	#10 THWN	3/4"	2554	(4) #250 KCMIL THWN	#4 THWN	3"
403	(3) #8 THWN	#10 THWN	3/4"	2853	(3) #300 KCMIL THWN	#4 THWN	3"
404	(4) #8 THWN	#10 THWN	1"	2854	(4) #300 KCMIL THWN	#4 THWN	3"
603	(3) #6 THWN	#10 THWN	1"	3103	(3) #350 KCMIL THWN	#4 THWN	3"
604	(4) #6 THWN	#10 THWN	1"	3104	(4) #350 KCMIL THWN	#4 THWN	3"
604G	(4) #6 THWN	#8 THWN	1"	3353	(3) #400 KCMIL THWN	#3 THWN	3"
703	(3) #4 THWN	#8 THWN	1-1/4"	3354	(4) #400 KCMIL THWN	#3 THWN	3"
704	(4) #4 THWN	#8 THWN	1-1/4"	3803	(3) #500 KCMIL THWN	#3 THWN	4"
803	(3) #3 THWN	#8 THWN	1-1/4"	3804	(4) #500 KCMIL THWN	#3 THWN	4"
804	(4) #3 THWN	#8 THWN	1-1/4"	4203	(3) #600 KCMIL THWN	#2 THWN	4"
903	(3) #2 THWN	#8 THWN	1-1/4"	4204	(4) #600 KCMIL THWN	#2 THWN	4"
904	(4) #2 THWN	#8 THWN	1-1/2"	4603	(6) #4/0 THWN	#2 THWN, EACH	(2) 2"
1003	(3) #1 THWN	#8 THWN	1-1/2"	4604	(8) #4/0 THWN	#2 THWN, EACH	(2) 2-1/2"
1004	(4) #1 THWN	#8 THWN	1-1/2"	5103	(6) #250 KCMIL THWN	#2 THWN, EACH	3-1/2"
1303	(3) #1 THWN	#6 THWN	1-1/2"	5104	(8) #250 KCMIL THWN	#2 THWN, EACH	3-1/2"
1304	(4) #1 THWN	#6 THWN	1-1/2"	6203	(6) #350 KCMIL THWN	#1 THWN, EACH	(2) 3"
1304G	(4) #1 THWN	#4 THWN	1-1/2"	6204	(8) #350 KCMIL THWN	#1 THWN, EACH	(2) 4"
1503	(3) #1/0 THWN	#6 THWN	2"	7603	(6) #500 KCMIL THWN	#1/0 THWN, EACH	(2) 4"
1504	(4) #1/0 THWN	#6 THWN	2"	7604	(8) #500 KCMIL THWN	#1/0 THWN, EACH	(2) 4"
1753	(3) #2/0 THWN	#6 THWN	2"	8553	(9) #300 KCMIL THWN	#2/0 THWN, EACH	(3) 4"
1754	(4) #2/0 THWN	#6 THWN	2"	8554	(12) #300 KCMIL THWN	#2/0 THWN, EACH	(3) 4"
2003	(3) #3/0 THWN	#6 THWN	2"	10053	(9) #400 KCMIL THWN	#2/0 THWN, EACH	(3) 4"
2004	(4) #3/0 THWN	#6 THWN	2"	10054	(12) #400 KCMIL THWN	#2/0 THWN, EACH	(3) 4"
2004G	(4) #3/0 THWN	#4 THWN	2"	11404	(12) #500 KCMIL THWN	#3/0 THWN, EACH	(3) 4"
2303	(3) #4/0 THWN	#4 THWN	2-1/2"	12404	(16) #350 KCMIL THWN	#3/0 THWN, EACH	(4) 3"
2304	(4) #4/0 THWN	#4 THWN	2-1/2"				
2305	(4) #4/0 THWN	#4 THWN, + #4 ISO GND	2-1/2"				

EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM...
3R	NEMA 3R ENCLOSURE	MMS	MANUAL MOTOR STARTER WITH FUSES
4	NEMA 4 ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH
4X	NEMA 4X ENCLOSURE	RD	RETURN AIR DUCT DETECTOR
BO	PROVIDED BY OTHERS	RSR	RUN STATUS RELAY , NORMALLY OPEN
CB	CIRCUIT BREAKER IN PANEL	SD	SUPPLY AIR DUCT DETECTOR
CSD	COMBINATION STARTER/DISCONNECT	SSP	START/STOP PUSHBUTTON WITH PILOT
CP	CORD AND PLUG PROVIDED WITH UNIT	SS	START/STOP PUSHBUTTON
ECB	ENCLOSED CIRCUIT BREAKER	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TOR	TIME DELAY OFF RELAY
FDS	FUSED DISCONNECT SWITCH	TS	TOGGLE SWITCH WITH PLUG FUSE
GF	GROUND FAULT CIRCUIT INTERRUPTION	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND-OFF-AUTO		

TAG	ELECTRICAL CHARACTERISTICS					DISCONNECT				CONTROLS		REMARKS
	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	STARTER	DESCRIPTION	
AHU-1	208 V	3	(2)1-1/2		10.9	INT	-	-	-	-	-	PROVIDE INTERCONNECTION WITH EXISTING FIRE ALARM SYSTEM FOR FAN UNIT SHUTDOWN.
AHU-GYM(EX)	208 V	3	3		-	INT	-	1	-	VFD	HOA	EXISTING UNIT MOTOR REPLACEMENT. PROVIDE NEW VFD CONTROLS WITH INTEGRAL DISCONNECT SWITCH.
AHU-MULTI(EX)	208 V	3	5		-	INT	-	1	-	VFD	HOA	EXISTING UNIT MOTOR REPLACEMENT. PROVIDE NEW VFD CONTROLS WITH INTEGRAL DISCONNECT SWITCH.
CP-1	120 V	1			1.7	CP	20	-	-	-	-	PROVIDE 20A RECEPTACLE AT PUMP LOCATION.
CP-2	120 V	1			1.7	CP	20	-	-	-	-	PROVIDE 20A RECEPTACLE AT PUMP LOCATION.
CP-3	120 V	1			1.7	CP	20	-	-	-	-	PROVIDE 20A RECEPTACLE AT PUMP LOCATION.
CP-4	120 V	1			1.7	CP	20	-	-	-	-	PROVIDE 20A RECEPTACLE AT PUMP LOCATION.
CU-1	208 V	3			27.6 + 36.3	CB	-	-	-	-	-	REFER TO PANEL SCHEDULE.
CU-2	208 V	3			55.1 + 55.1	CB	-	-	-	-	-	REFER TO PANEL SCHEDULE.
CU-3	208 V	3			36.3 + 36.3	CB	-	-	-	-	-	REFER TO PANEL SCHEDULE.
CU-4	208 V	1			9	FDS	30	3R	15	-	-	
CU-5	208 V	3			48	CB	-	-	-	-	-	REFER TO PANEL SCHEDULE.
FCU-1	208 V	1			9	INT	-	-	-	-	-	POWERED BY OUTDOOR UNIT CU-4. PROVIDE WIRING CONNECTIONS PER APPROVED MANUFACTURER REQUIREMENTS.
UV-A100	120 V	1			6.3	INT	-	-	-	-	-	
UV-A102	120 V	1			6.3	INT	-	-	-	-	-	
UV-A104	120 V	1			6.3	INT	-	-	-	-	-	
UV-A106	120 V	1			6.3	INT	-	-	-	-	-	
UV-A108	120 V	1			6.3	INT	-	-	-	-	-	
UV-A110	120 V	1			6.3	INT	-	-	-	-	-	
UV-A116	120 V	1			6.3	INT	-	-	-	-	-	
UV-A118	120 V	1			6.3	INT	-	-	-	-	-	
UV-A122	120 V	1			6.3	INT	-	-	-	-	-	
UV-A126	120 V	1			6.3	INT	-	-	-	-	-	
UV-A128	120 V	1			6.3	INT	-	-	-	-	-	
UV-B100	120 V	1			6.3	INT	-	-	-	-	-	
UV-B102	120 V	1			6.3	INT	-	-	-	-	-	
UV-B104	120 V	1			6.3	INT	-	-	-	-	-	
UV-B106	120 V	1			6.3	INT	-	-	-	-	-	
UV-B116	120 V	1			6.3	INT	-	-	-	-	-	
UV-B118	120 V	1			6.3	INT	-	-	-	-	-	
UV-B142	120 V	1			6.3	INT	-	-	-	-	-	

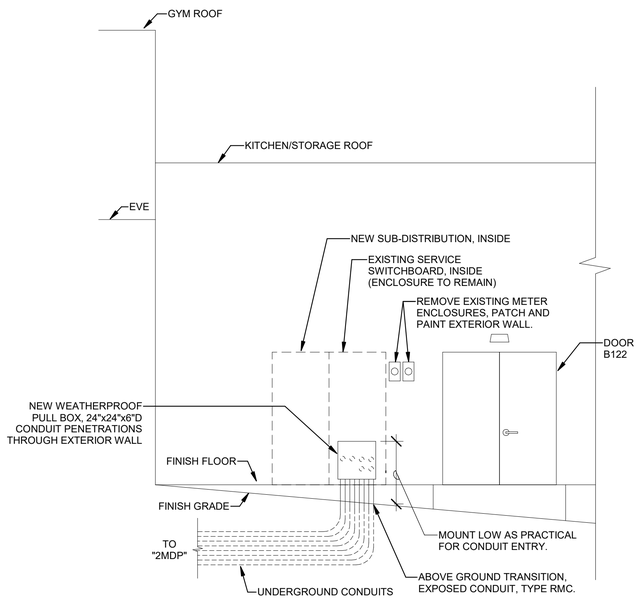
NOTES:

A. PROVIDE OVERCURRENT PROTECTION CIRCUIT BREAKER AND/OR FUSE AMP RATINGS PER EQUIPMENT NAMEPLATE.

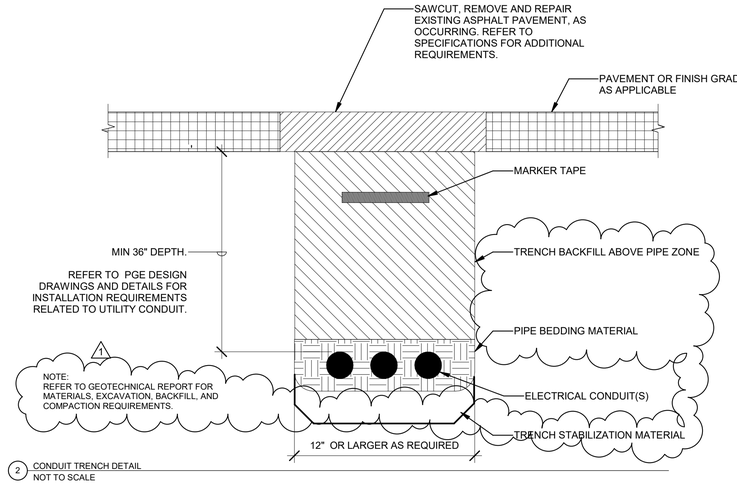
B. COORDINATE WITH MECHANICAL SYSTEM INSTALLER AND CONFIRM CONNECTION LOCATIONS OF APPROVED EQUIPMENT PRIOR TO ROUGH-IN.

C. VERIFY CONNECTION REQUIREMENTS WITH APPROVED EQUIPMENT AND PROVIDE WIRING, CONNECTIONS, AND ROUGH-IN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

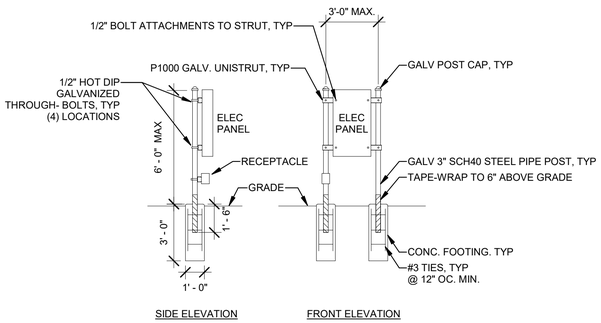
D. FIRE ALARM SYSTEM INTERFACE, WHERE REQUIRED, SHALL BE PROVIDED BY THE CONTRACTOR AS A DESIGN-BUILD SERVICE. PROVIDE DESIGN OF NEW DEVICES ON EXISTING SYSTEM, DRAWINGS, CALCULATIONS, AND SUBMITTAL FOR APPROVAL.



1 WEST EXTERIOR ELEVATION, KITCHEN/GARBAGE
NOT TO SCALE



2 CONDUIT TRENCH DETAIL
NOT TO SCALE



3 PANEL STRUT RACK
NOT TO SCALE

BID/PERMIT SET

3/16/2020 12:03:16 PM

REGISTERED PROFESSIONAL ENGINEER
94252
OREGON
DEC. 13, 2019
ADAM R. KOBLE
EXPIRES: 6/30/2021

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ELECTRICAL SCHEDULES & DETAILS

Drawing No.
E4.01

Scale As indicated

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Project No. 19-0012