ADDITION:

LOCATION:

MOUNTAIN WEST MONTESSORI

177 EAST ANTELOPE DRIVE, SUITE B **LAYTON, UT 84041** PHONE: (801) 499-5054

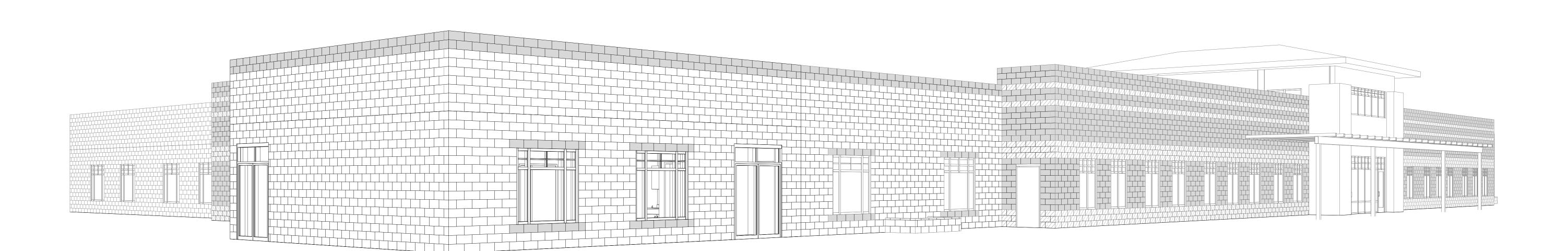
SILVERPEAK

177 EAST ANTELOPE DRIVE, SUITE B LAYTON, UT 84041 PHONE: (801) 499-5054

ELECTRICAL ENGINEER

MECHANICAL CONSULTING ENGINEERS TREMONTON, UT 84337 PHONE: (801) 726-5047

4125 FOXVIEW DRIVE SOUTH JORDAN, UTAH



BID SET

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NOT FOR CONSTRUCTION

CIVIL ENGINEER

ATTN: JOSH JENSEN

LAYTON, UT 84041 PHONE: (801) 499-5054

ARCHITECT

SILVERPEAK ENGINEERING

ATTN: JARED FORSYTH LAYTON, UT 84041 PHONE: (801) 499-5054

STRUCTURAL ENGINEER

ATTN: JAYSON LOVE

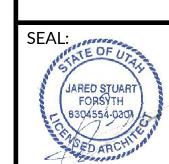
ATTN: JARETH SMITH

SALT LAKE CITY, UT 84116

MECHANICAL ENGINEER

CONTRACTOR

SORI

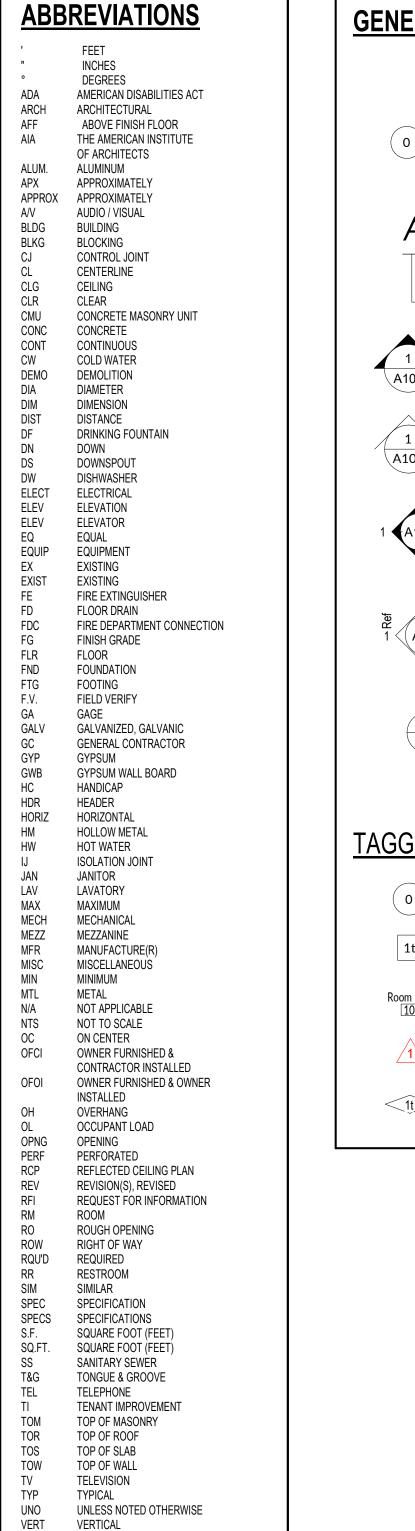


MANAGER: CJ

REVISIONS

DATE DESCRIPTION

COVER SHEET



WITH

WASHER & DRYER WATER HEATER

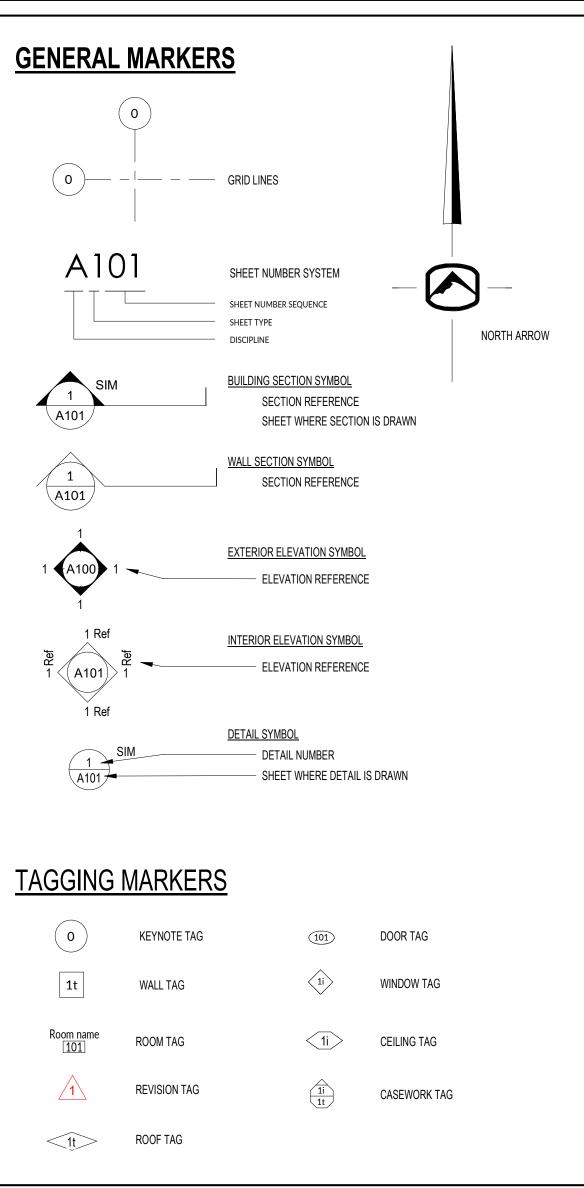
DEFERRED SUBMITTALS & SPECIAL INSPECTIONS

2. SPECIAL INSPECTIONS REQUIRED FOR CONCRETE, MASONRY, EPOXY, SOILS & STRUCTURAL STEEL. SEE STRUCTURAL

3. SPECIAL INSPECTIONS WILL BE PROVIDED BY INTERMOUNTAIN TESTING SERVICES. THEY CAN BE REACHED AT 801-776-5355.

1. FIRE SPRINKLER & ALARM DRAWINGS WILL BE PROVIDED PRIOR TO INSTALLATION.

DRAWINGS FOR SPECIAL INSPECTION QUALIFICATION TABLES.



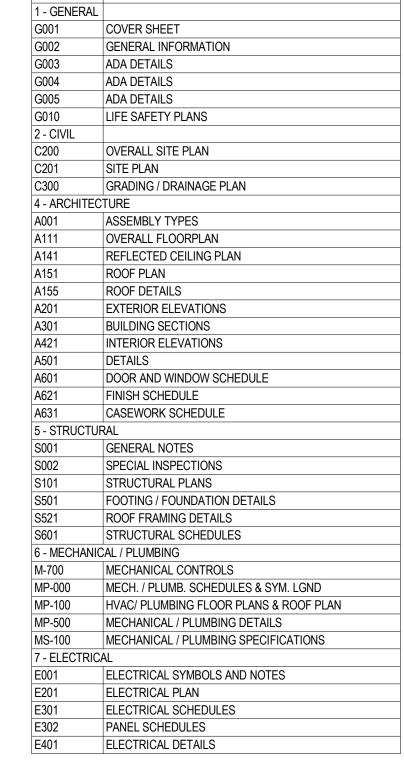
CURRENT CODE EDITIONS APPLICABLE CODES: BUILDING CODE 2018 IBC MECHANICAL CODE 2018 IMC PLUMBING CODE 2018 IPC ELECTRICAL CODE 2017 NEC FIRE CODE 2018 IFC **ENERGY CODE** 2018 IECC FUEL/GAS CODE 2018 IFGC UNIFORM PLUMBIN CODE 2003 UPC ADA GUIDELINES ICC/ANSI A117.1-2009

2018 IBC CODE ANALYSIS	
OCCUPANCY GROUP (CHAPTER 3) CONSTRUCTION TYPE (TABLE 601) FIRE SPRINKLERS PROVIDED?	E II-B YES
BUILDING HEIGHT & AREA ALLOWABLE BUILDING HEIGHT (TABLE 504.3) ALLOWABLE NUMBER OF STORIES (TABLE 504.4) ACTUAL NUMBER OF STORIES	75' 3 1
TOTAL ALLOWABLE BUILDING AREA (506.2.1) Aa = [At + (NS x If)] Aa = [58,000 + (14,500 x 0.75)]	68,875 SQ.FT.
FRONTAGE INCREASE (506.3.3) If = [F/P - 0.25] x W/30 If = [1044/1044 - 0.25] x 30/30	0.75
ACTUAL EXISTING MAIN FLOOR AREA ACTUAL ADDITION MAIN FLOOR AREA ACTUAL BUILDING AREA (TOTAL)	40,526 SQ.FT. 1,408 SQ. FT. 41,934 SQ. FT.
NEW OCCUPANT LOAD (TABLE 1004.5) NEW CLASSROOMS (20 NET)	48
STUDENTS ALLOWED PER CHARTER TOTAL STAFF TOTAL OCCUPANT LOAD BASED ON CHARTER	500 50 550
MEANS OF EGRESS NUMBER OF EXITS REQUIRED (TABLE 1006.3.2) NUMBER OF EXITS PROVIDED MAX ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2) ACTUAL MAX. TRAVEL DISTANCE CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.1)	4 SEE PLAN 250' 134' 0
PLUMBING FIXTURES (IBC TABLE 2902.1) REQUIRED WATER CLOSETS (1 PER 50) REQUIRED LAVATORIES (1 PER 50) REQUIRED DRINKING FOUNTAINS (1 PER 100) REQUIRED SERVICE SINKS	11 11 6 1
TOTAL PROVIDED FIXTURES EXISTING WATER CLOSETS PROVIDED NEW WATER CLOSETS PROVIDED EXISTING LAVATORIES PROVIDED NEW LAVATORIES PROVIDED EXISTING DRINKING FOUNTAINS PROVIDED NEW DRINKING FOUNDATIN PROVIDED EXISTING SERVICE SINKS PROVIDED	15 1 11 1 7 1 (BUBBLER) 2



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NUMBER

SHEET NUMBER

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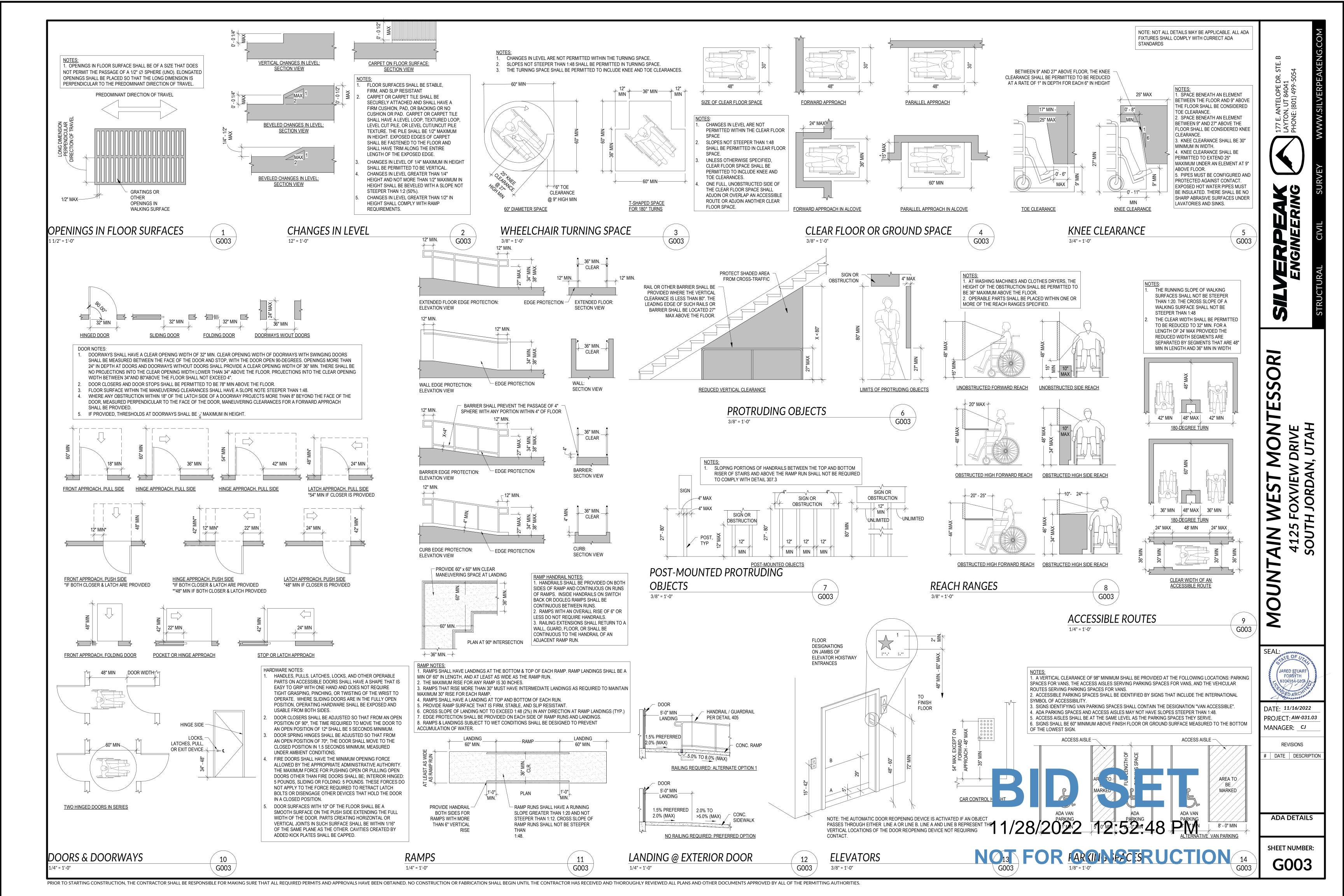
OXVIEW DRIVE JORDAN, UTAH

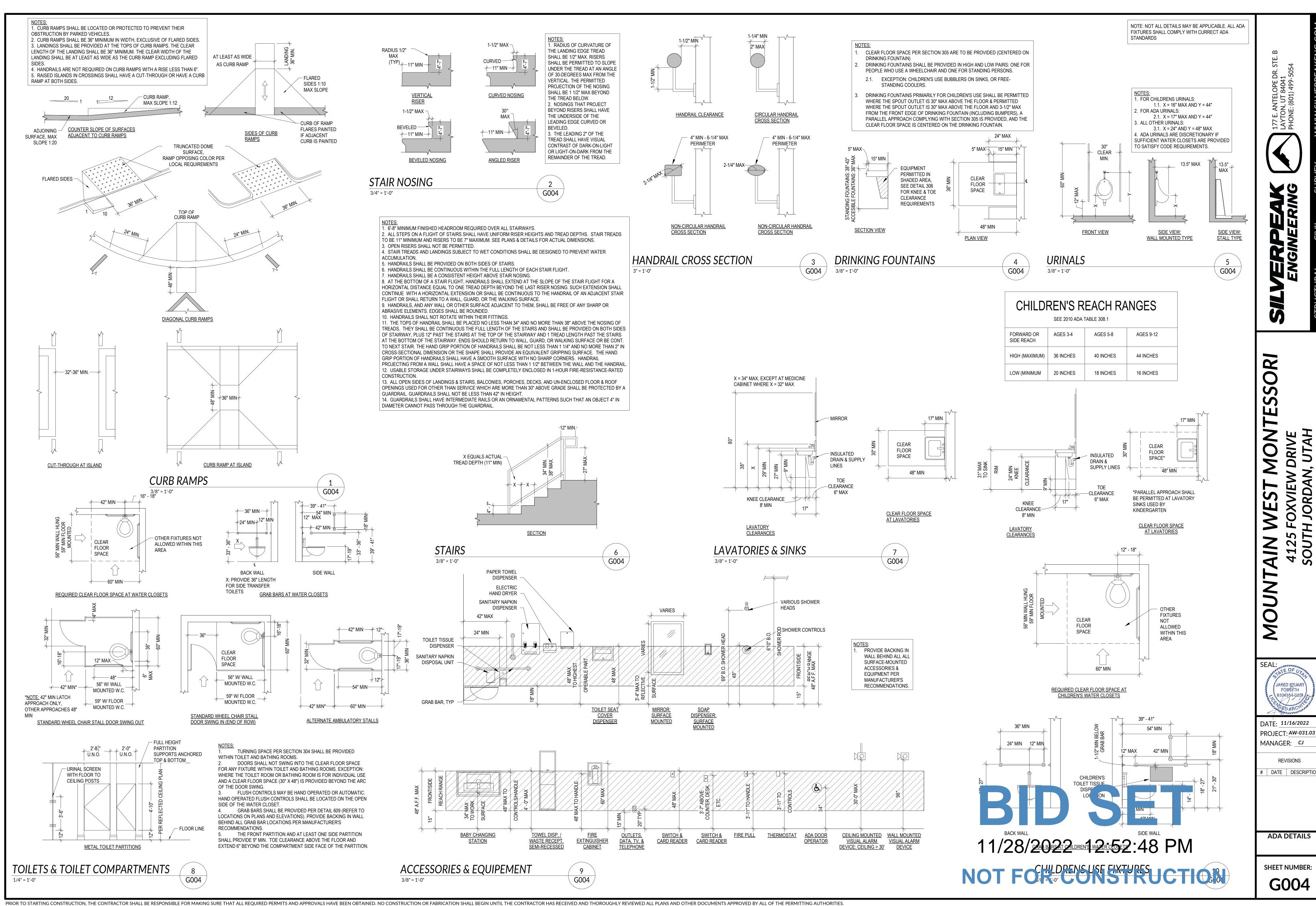
DATE: 11/16/2022 PROJECT: AW-031.03 MANAGER: CJ

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DATE DESCRIPTIO

GENERAL **INFORMATION**

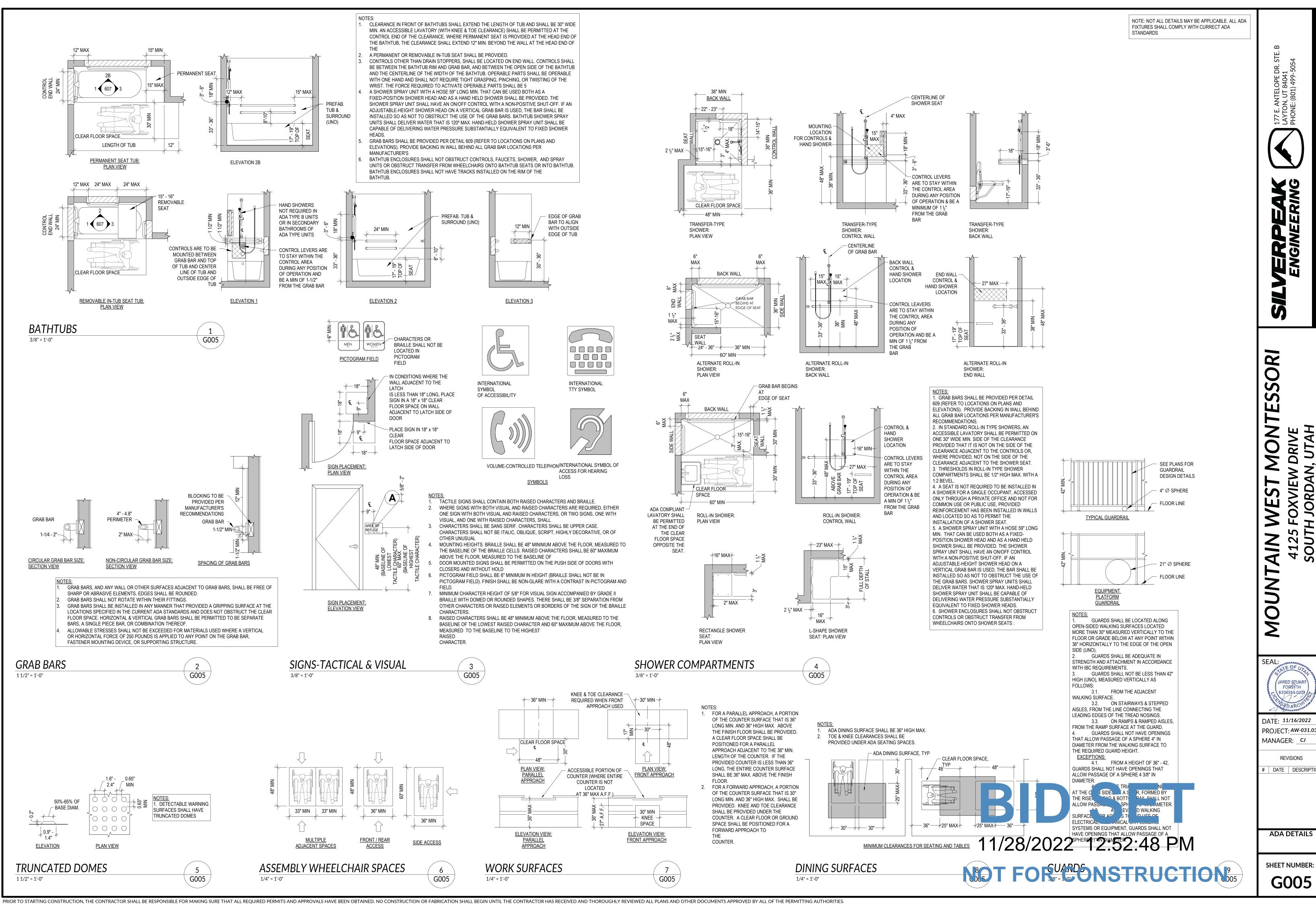




ADA DETAILS

SHEET NUMBER:

G004

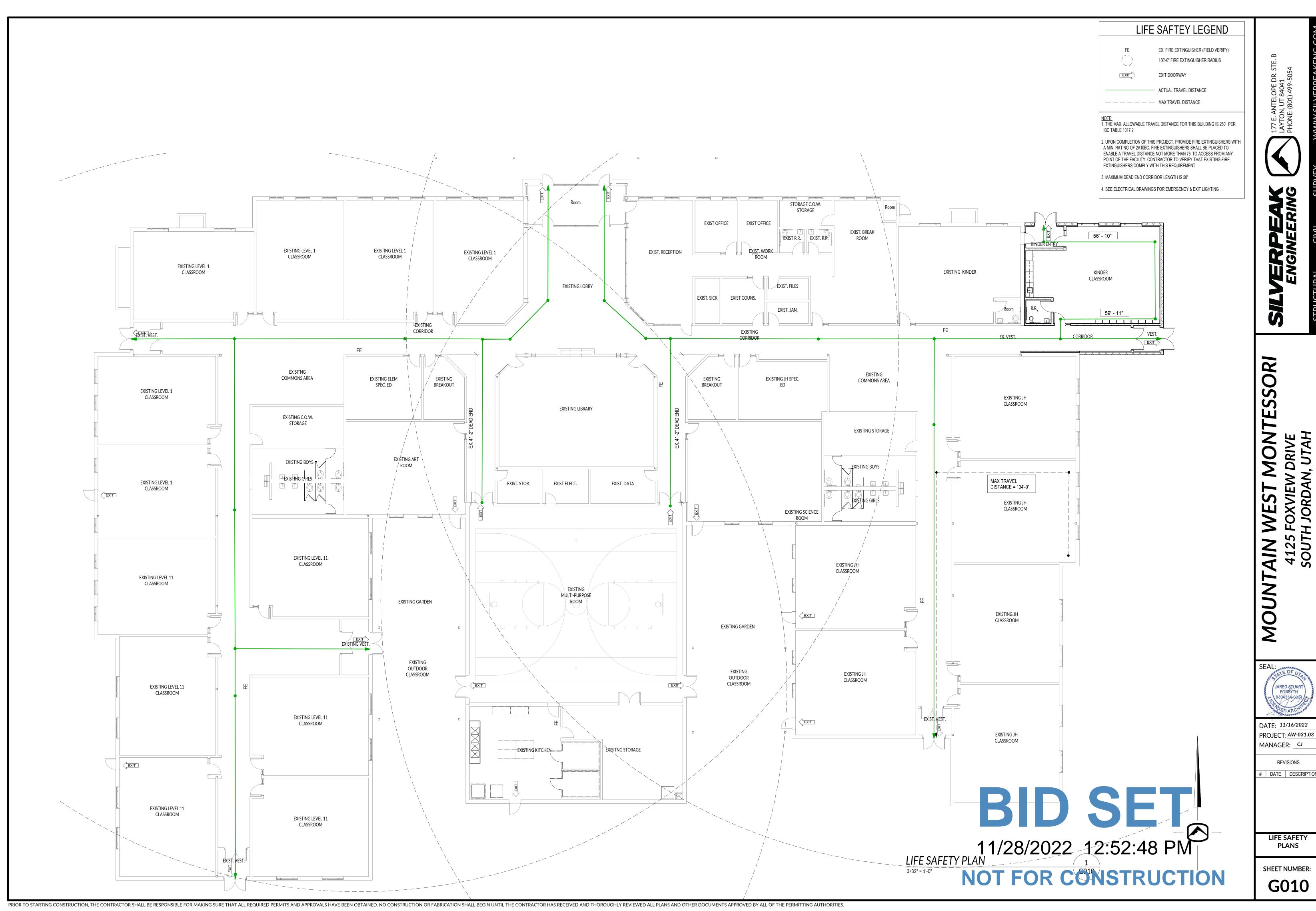


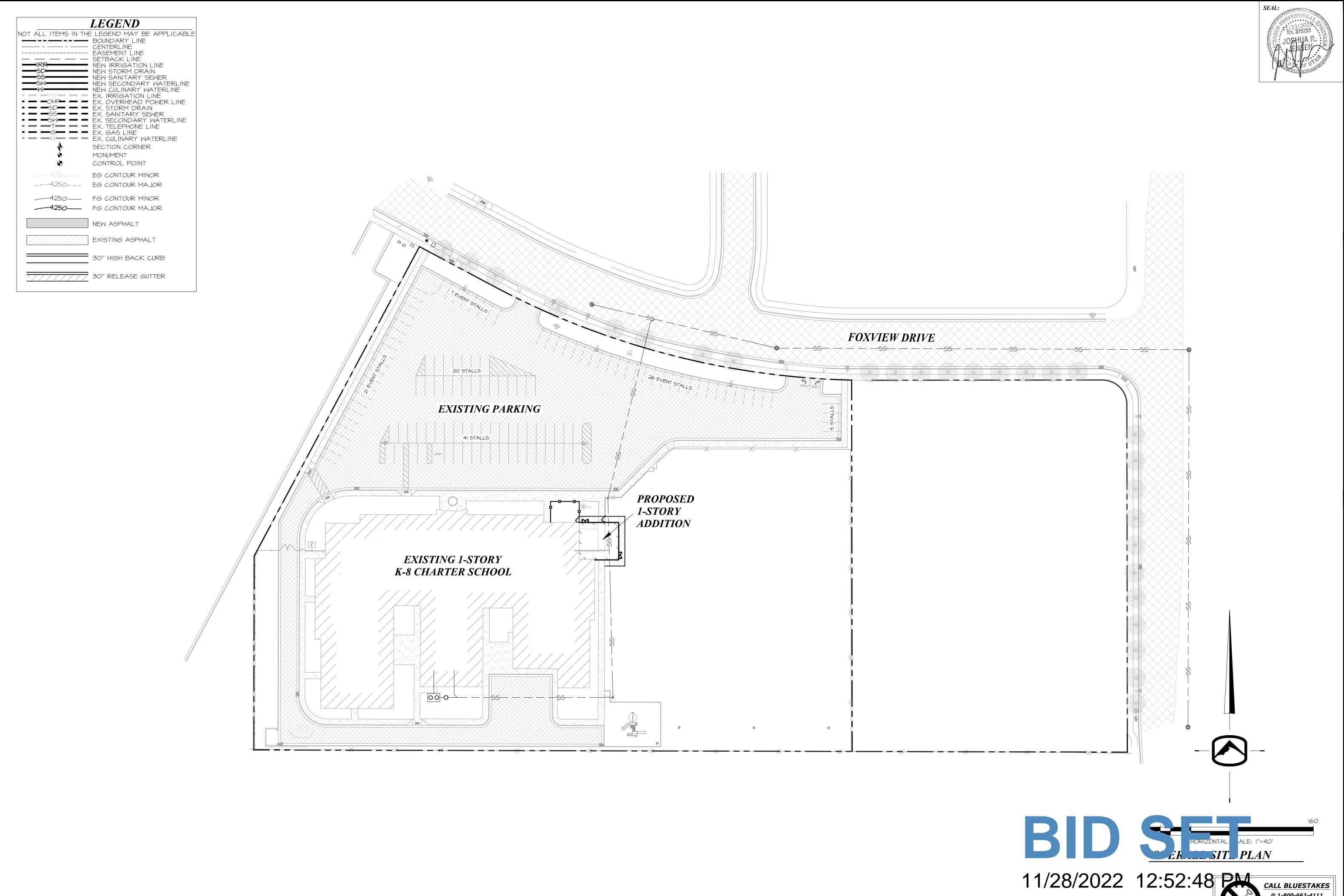
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REVISIONS

DRIVE

112 00



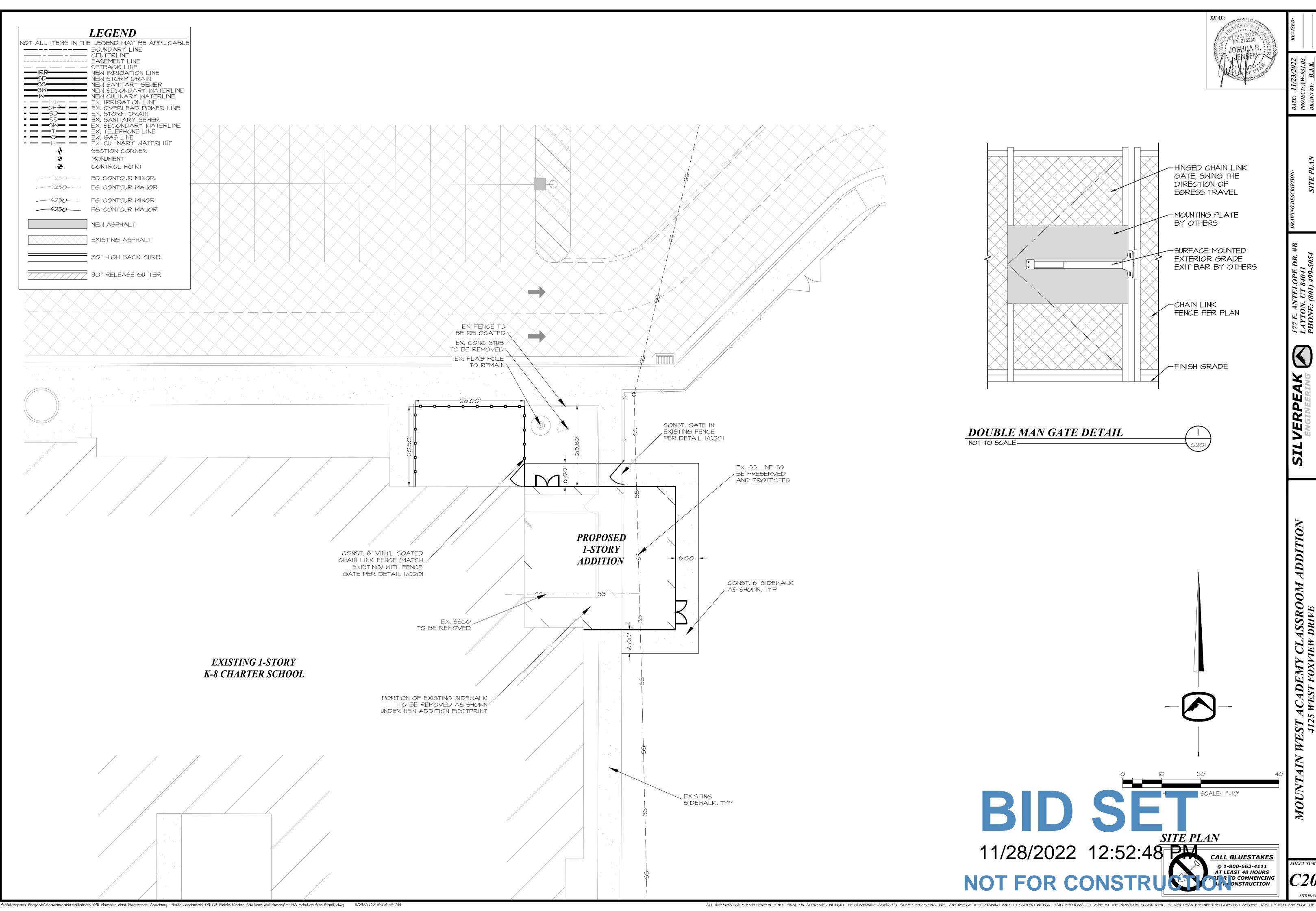


5:\Silverpeak Projects\AcademicaWest\Utah\AW-031 Mountain West Montessori Academy - South Jordan\AW-031.03 MWMA Kinder Addition\Civil-Survey\MWMA Addition Site Plan(1).dwg 11/23/2022 10:06:41 AM

ROOM ADDITION VE

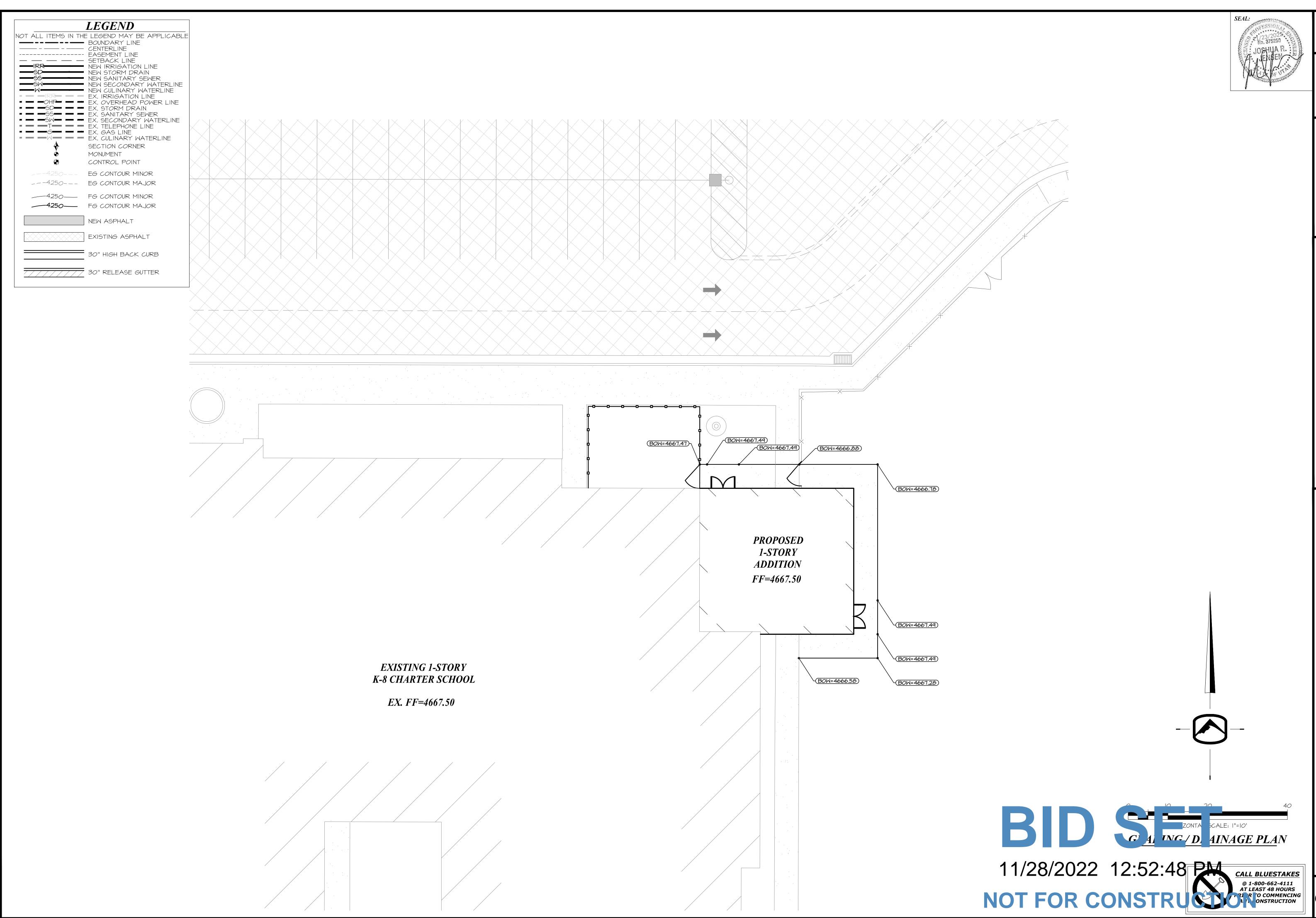
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SILVERPEAK

SROOM ADDITION JIVE



5:\Silverpeak Projects\AcademicaWest\Utah\AW-031 Mountain West Montessori Academy - South Jordan\AW-031.03 MWMA Kinder Addition\Civil-Survey\MWMA Addition Site Plan(1).dwg 11/23/2022 10:06:50 AM

DATE: 11/23/2022
PROJECT: 4W-031.03
DRAWN BY: B.J.K.

PROJECT: AIV
PROJECT: AIV

F. PLAN

PROJECT: AIV

PROJECT:

GRADING / DRAINAGE

77 E. ANTELOPE DR. #B AYTON, UT 84041 HONE: (801) 499-5054 AX: (801) 499-5065

ERPEAK INGINEERING

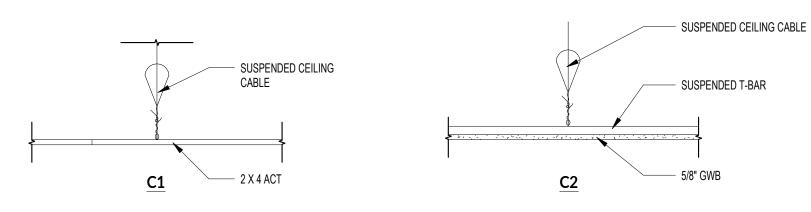
CADEMY CLASSROOM ADDITION WEST FOXVIEW DRIVE

MOUNTAIN WEST ACADEMY CLASS 4125 WEST FOXVIEW DR

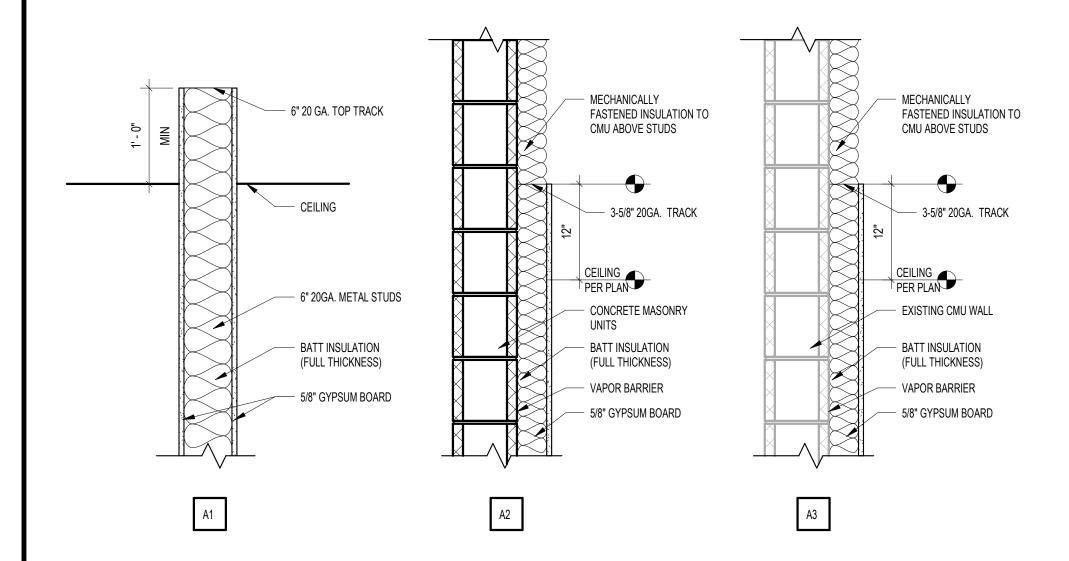
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ALL INFORMATION SHOWN HEREON IS NOT FINAL OR APPROVED WITHOUT THE GOVERNING AGENCY'S STAMP AND SIGNATURE. ANY USE OF THIS DRAWING AND ITS CONTENT WITHOUT SAID APPROVAL IS DONE AT THE INDIVIDUAL'S OWN RISK. SILVER PEAK ENGINEERING DOES NOT ASSUME LIABILITY FOR ANY SUCH USE.

ROOF TYPES



CEILING TYPES



WALL ASSEMBLIES



REVISIONS

DATE DESCRIPTION

DATE: 11/16/2022

MANAGER: _CJ

ASSEMBLY TYPES

1/4" = 1'-0"

A111

DEMOLITION PLAN GENERAL NOTES

1. CONTRACTOR TO COORDINATE DEMOLITION WORK SEQUENCE. REFERENCE PHASING DRAWINGS WHERE APPLICABLE.

2. DEMOLITION DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BUILDING AND SITE CONDITIONS.

3. DEMOLITIONS DRAWINGS GENERALLY INDICATE EXISTING SCOPE OF WORK TO BE DEMOLISHED AND ARE NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF WORK TO BE REMOVED IN ORDER TO ACCOMPLISH SCOPE OF NEW CONSTRUCTION. WHERE THESE CONDITIONS OCCUR OUTSIDE OF THE DEMOLITION LIMITS, AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS PART OF THE NEW CONSTRUCTION SCOPE OF WORK.

4. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONSTRUCTION AND CONSTRUCTION

5. REFERENCE STRUCTURAL, CIVIL, AND MEP DRAWINGS FOR OTHER DISCIPLINE DEMOLITION SCOPE OF WORK.

6. WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES OR OTHER WALL MOUNTED ITEMS ARE SCHEDULED TO BE SALVAGED, REFERENCE CONSTRUCTION DRAWINGS FOR NEW LOCATIONS OR COORDINATE WITH OWNER FOR STORAGE

7. PARTITIONS SCHEDULED TO BE REMOVED; DEMOLITION SHOULD INCLUDE MISCELLANEOUS BRACING, TRACK, ETC. TO BOTTOM OF STRUCTURE.

8. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS UNOBSTRUCTED, ILLUMINATED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.

9. CONTRACTOR TO CLEAN AREAS ADJACENT TO DEMOLITION AREA OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITIONS OPERATIONS.

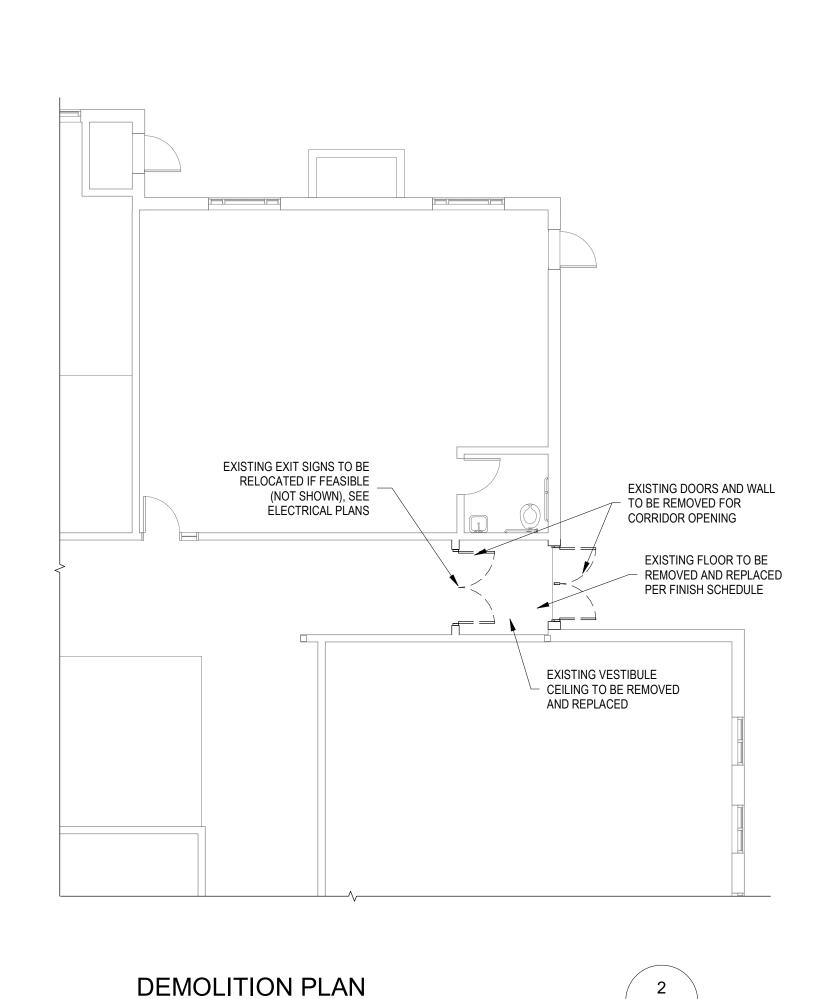
10. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE TRANSPORT DEMOLISHED MATERIALS AND LEGALLY DISPOSE OF THEM.

FLOOR PLAN GENERAL NOTES:

1. SEE ENLARGED PLANS FOR INTERIOR DIMENSIONS 2. WINDOW DIMENSION ARE TO THE CL OF WINDOW OPENING UNO 3. PROVIDE ADA ACCESSIBLE CUBBIES & COAT HOOKS AS APPLICABLE. SEE PLANS FOR LOCATIONS

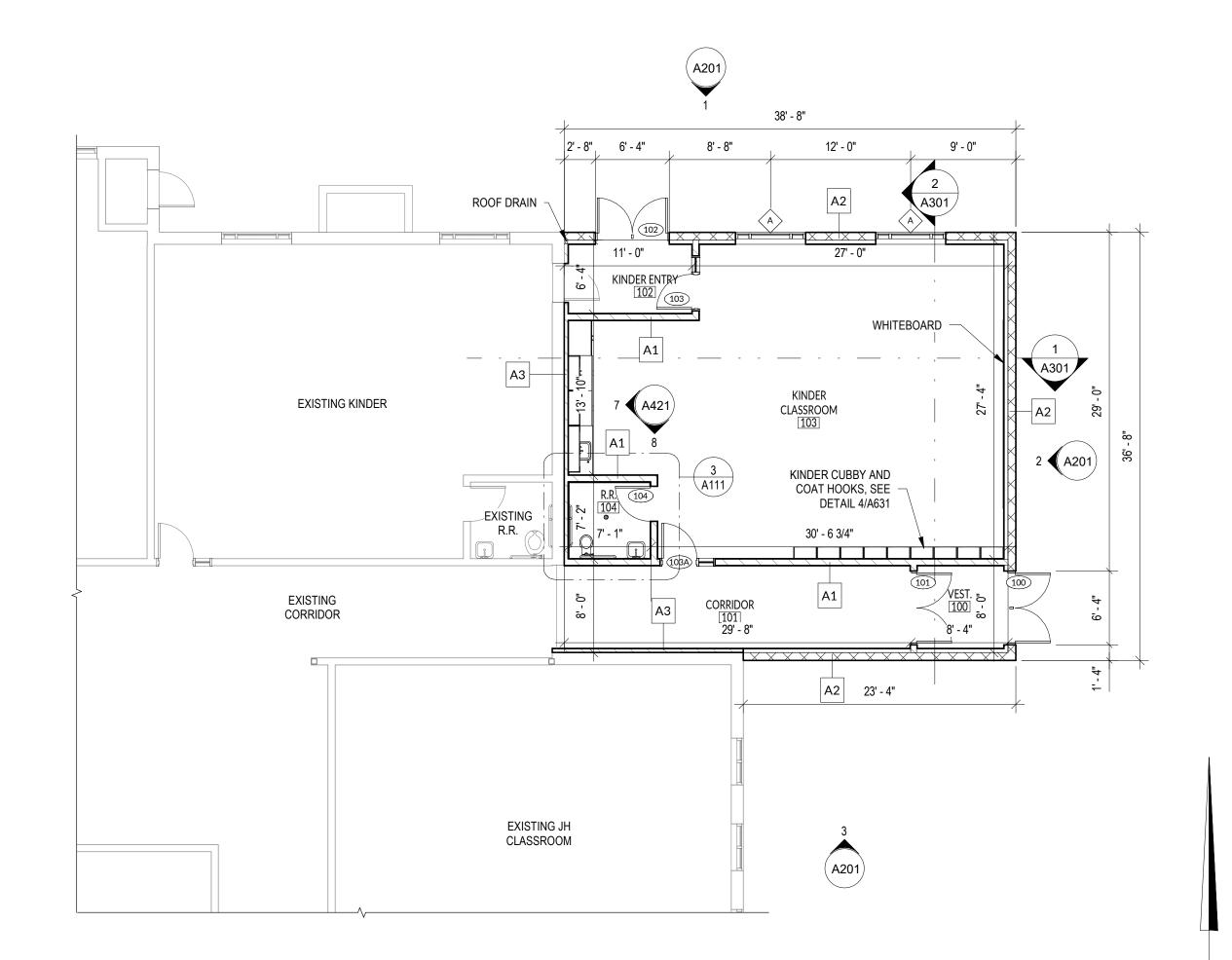
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS

4. PROVIDE 11 7/8" RIM WOOD BLOCKING FOR ALL RESTROOM PARTITIONS, ADA GRAB BARS, HANDRAILS, ETC. SEE MANUFACTURER'S RECOMMENDATIONS FOR LOCATIONS OF BLOCKING. 5. PROVIDE METAL STRAPPING BLOCKING FOR WHITEBOARDS (SEE MANUFACTURER'S RECOMMENDATIONS FOR LOCATION OF BLOCKING).



\ A111

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



FLOOR PLAN

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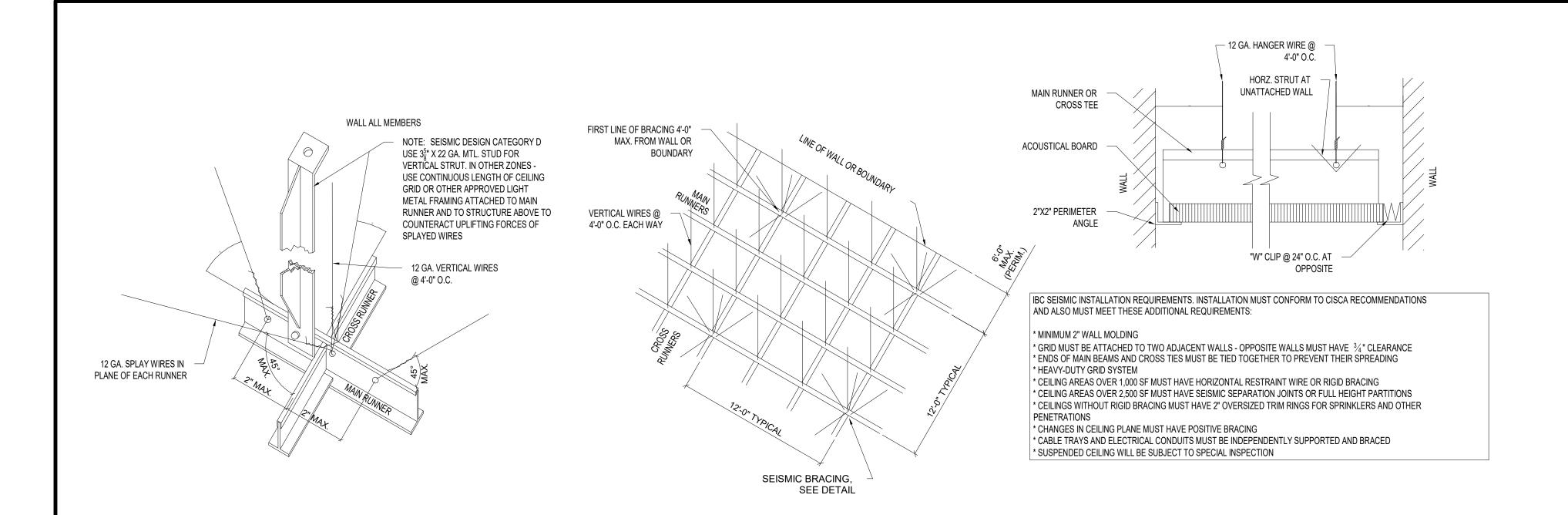
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OVERALL **FLOORPLAN**

DATE: 11/16/2022 PROJECT: AW-031.03 MANAGER: CJ

REVISIONS

DATE DESCRIPTIO



CEILING TYPES 2' x 4' ACOUSTICAL PANEL CEILING IN METAL SUSPENSION SYSTEM 3/A141 5/8" GYPSUM BOARD ATTACHED TO METAL SUSPENSION

	1'X4' SURFACE MOUNT LIGHT (PER ELEC. DRAWINGS)
	2'X4' HIGH BAY LIGHT (PER ELEC. DRAWINGS)
	4' LINEAR PENDANT LIGHT (PER ELEC. DRAWINGS)
(5 - 3)	8' LINEAR PENDANT LIGHT (PER ELEC. DRAWINGS)
\square	2X4 TROFFER (PER ELEC. DRAWINGS)
\boxtimes	DIFFUSER (PER MECH. DRAWINGS)
	RETURN (PER MECH. DRAWINGS)
	EXHAUST FAN (PER MECH. DRAWINGS)

CEILING LEGEND

REFLECTED CEILING PLAN NOTES

PROVIDE SEISMIC BRACING TO SUSPENDED CEILING SYSTEMS PER DETAIL 3/A142 SEE ELCTRICAL DRAWINGS FOR **EMERGENCY LIGHTING** EXISTING CEILING AND LIGHTS NOT SHOWN FOR CLARITY

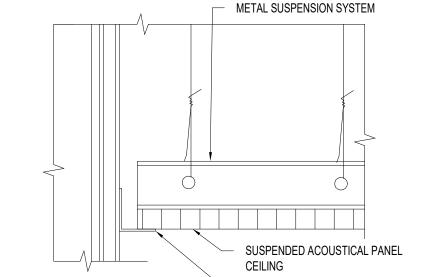
DATE: 11/16/2022 PROJECT: AW-031.03 MANAGER: CJ

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DATE DESCRIPTIO

REFLECTED **CEILING PLAN**

SHEET NUMBER: A141



2" X 2" PERIMETER ANGLE

A141

CEILING SUSPENSION SYSTEM & SEISMIC BRACING DETAIL

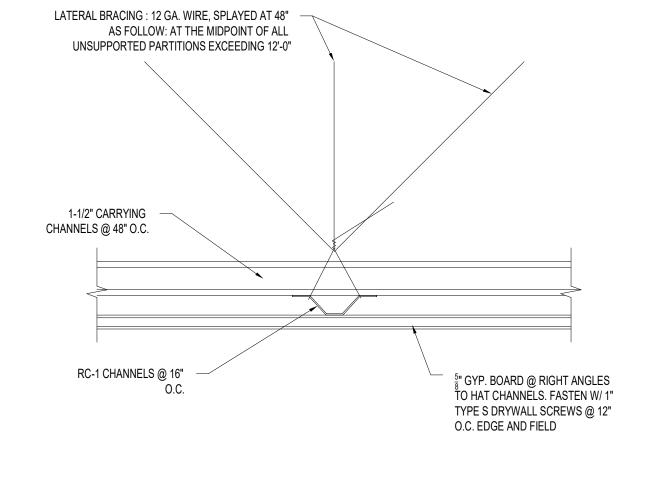
NOT TO SCALE

- ALL SPLAY WIRES TO BE INLINE WITH ATTACHED COMPONENTS.
- 2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS W/ MINIMUM OF 3 TURNS IN 1" OF RUN $^{\circ}$. AREAS SMALLER THAN 144 FT 2 WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED TO BE
- 4. COMPRESSIVE STRUTS REQUIRED @ 12'-0" O.C.
- 5. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE SLACK)
- WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT, NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UNBRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

SUSPENDED ACOUSTIC

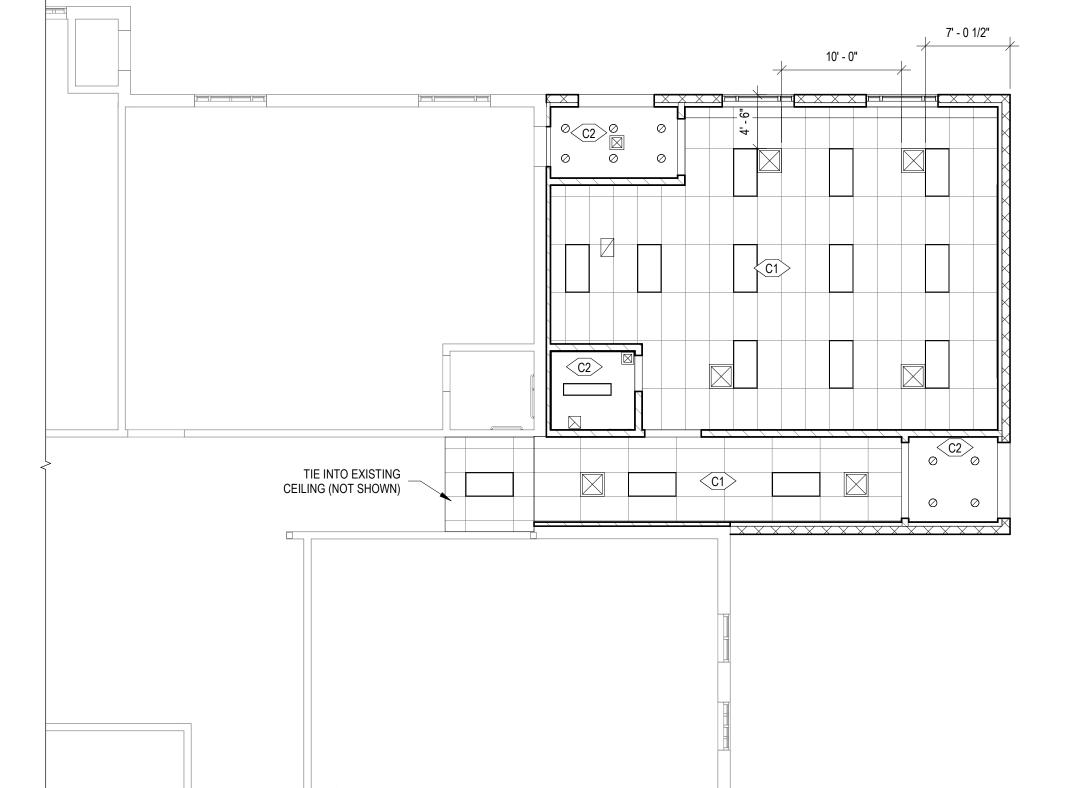
CEILING DETAIL

NOT TO SCALE -



SUSPENDED GYP. BOARD **CEILING DETAIL**

NOT TO SCALE A141



A141

REFLECTED CEILING PLAN

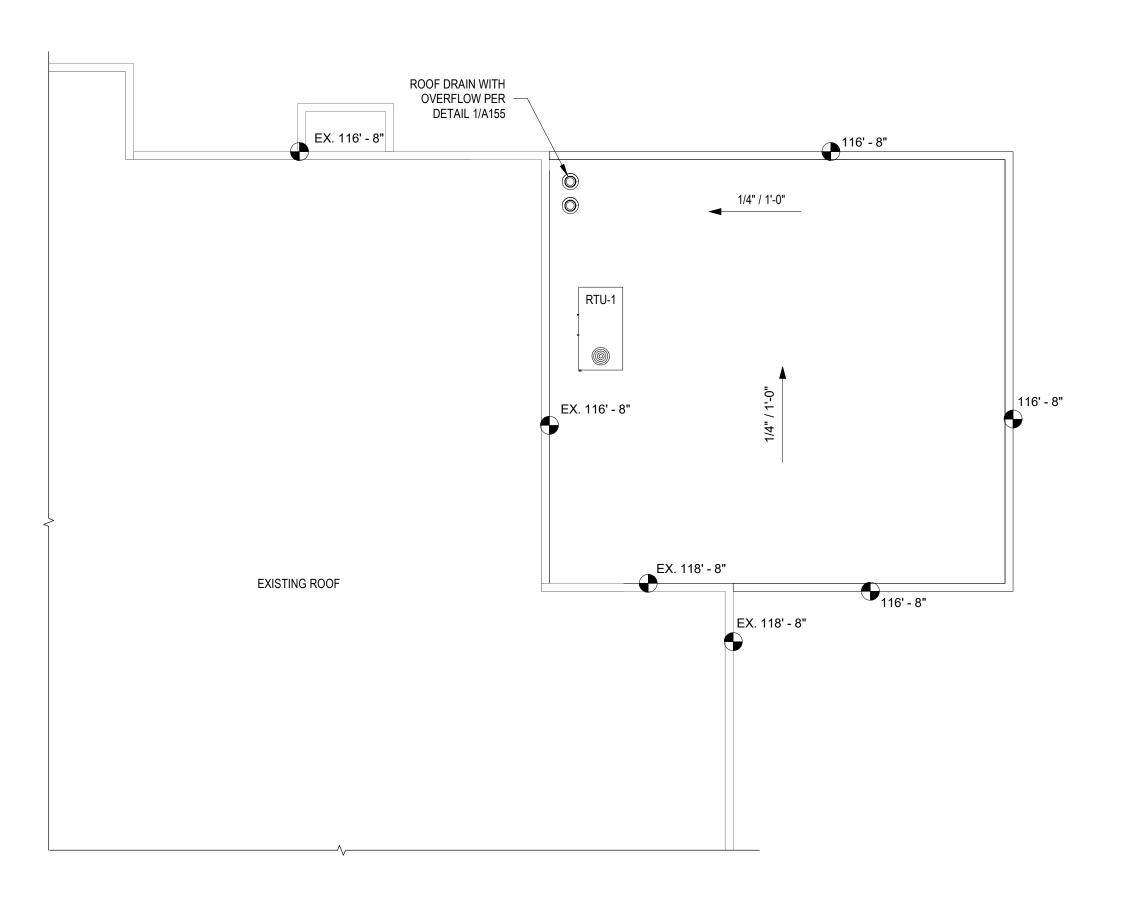
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ROOF NOTES

 ALL ROOFS ARE R1 U.N.O.
 ROOF DRAIN PIPE SHALL PENETRATE BELOW FROST DEPTH PRIOR TO EXITING THE BUILDING. 3. MINIMUM SLOPE OF TPO ROOF IS 1/4" PER FOOT. 4. NOT ALL EXISTING ROOF DRAINS ARE SHOWN ON THIS PLAN. FIELD VERIFY AS NEEDED 5. EXISTING ROOF H ATCH NOT SHOWN

ROOF CRICKETS INDICATES ROOF TOP UNIT. REFER TO MECHANICAL DRAWINGS EXISTING/NEW ROOF DRAIN. REFER TO 5/A152



A151 **ROOF PLAN**

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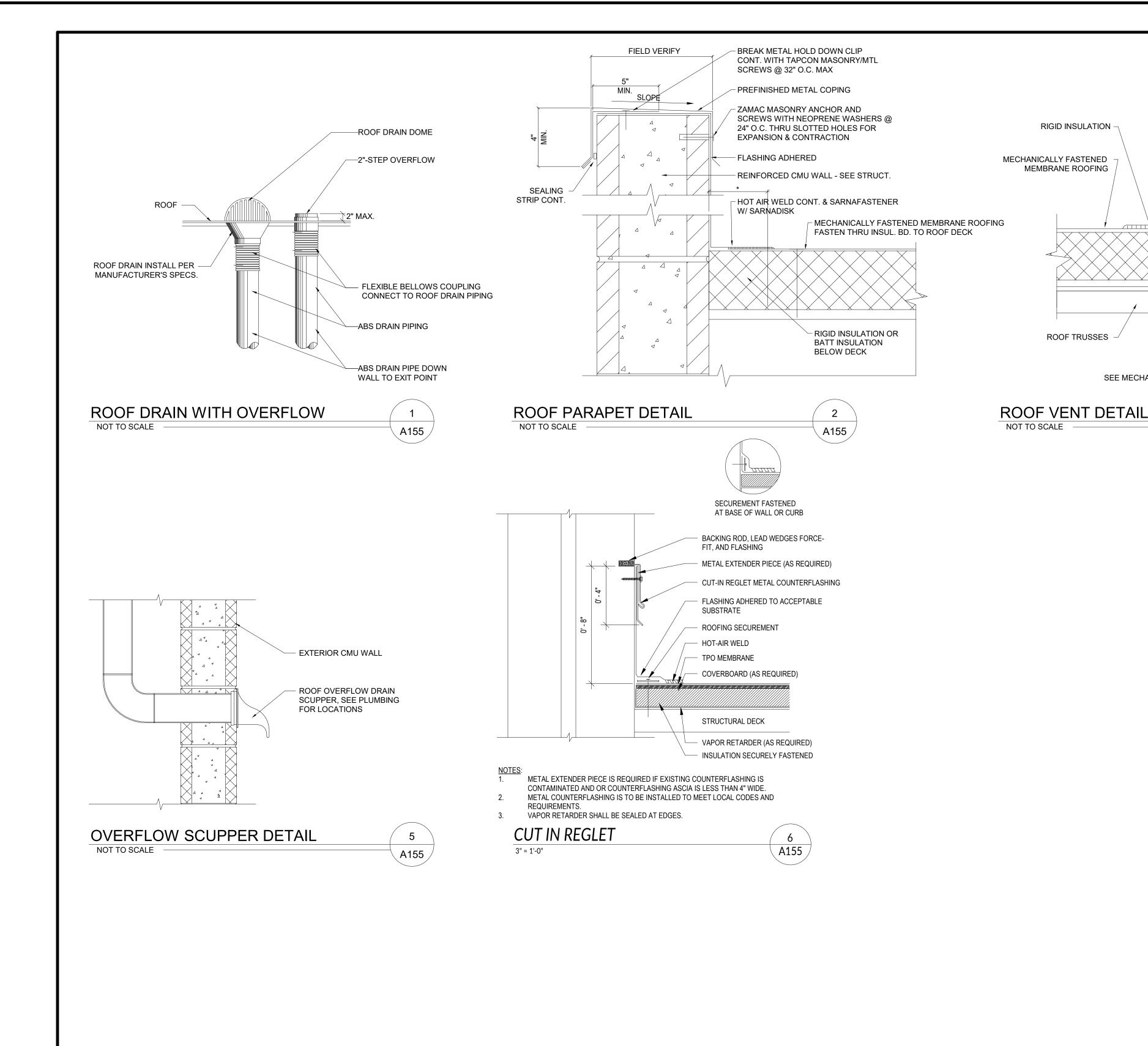
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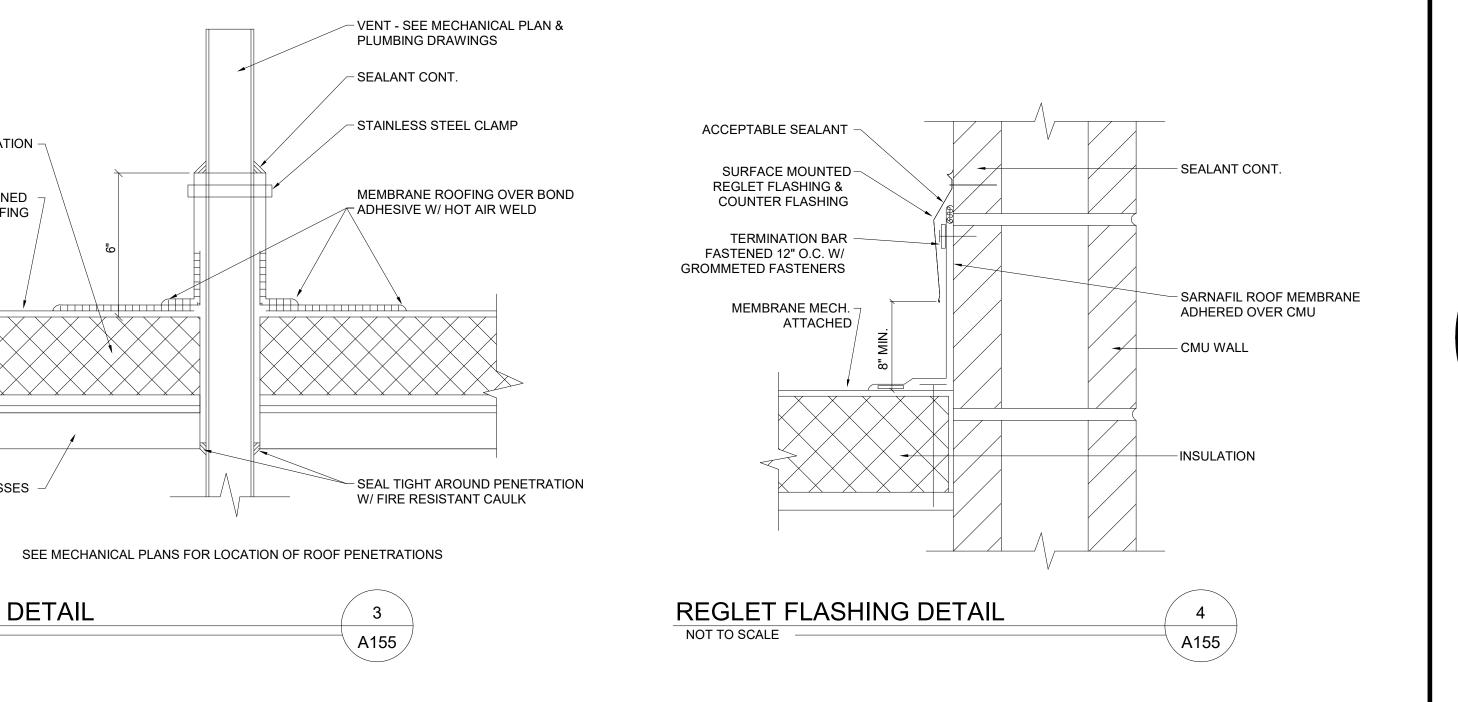
DATE: 11/16/2022 MANAGER: _CJ

REVISIONS

DATE DESCRIPTION

ROOF PLAN







NOT FOR CONSTRUCTION

ROOF DETAILS

DATE: <u>11/16/2022</u>
PROJECT: <u>AW-031.03</u>
MANAGER: *CJ*

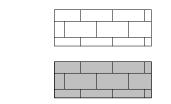
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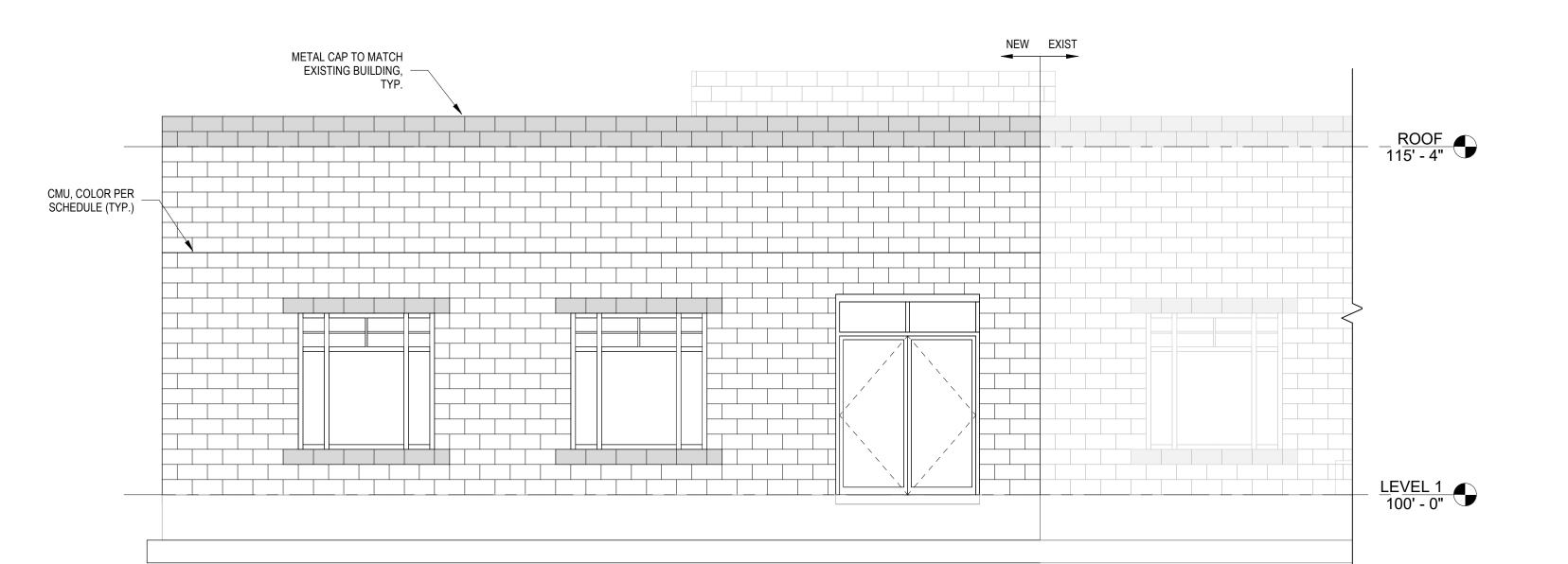
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EXTERIOR FINISH LEGEND



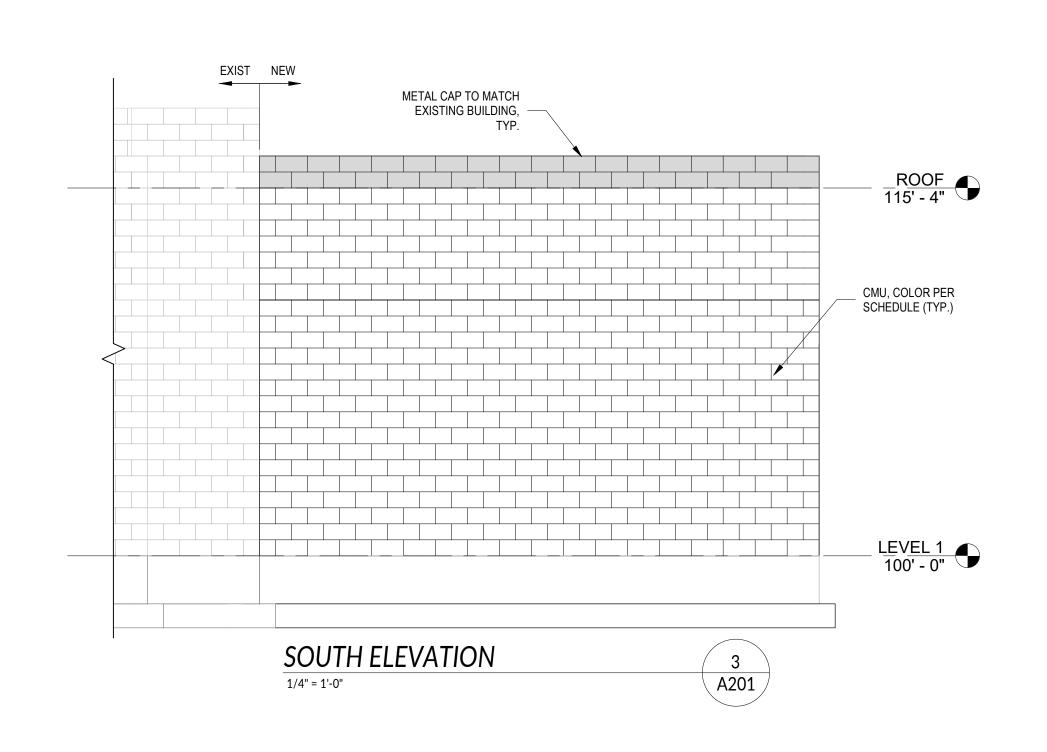
SMOOTH-FACE (BRAIR COLOR)

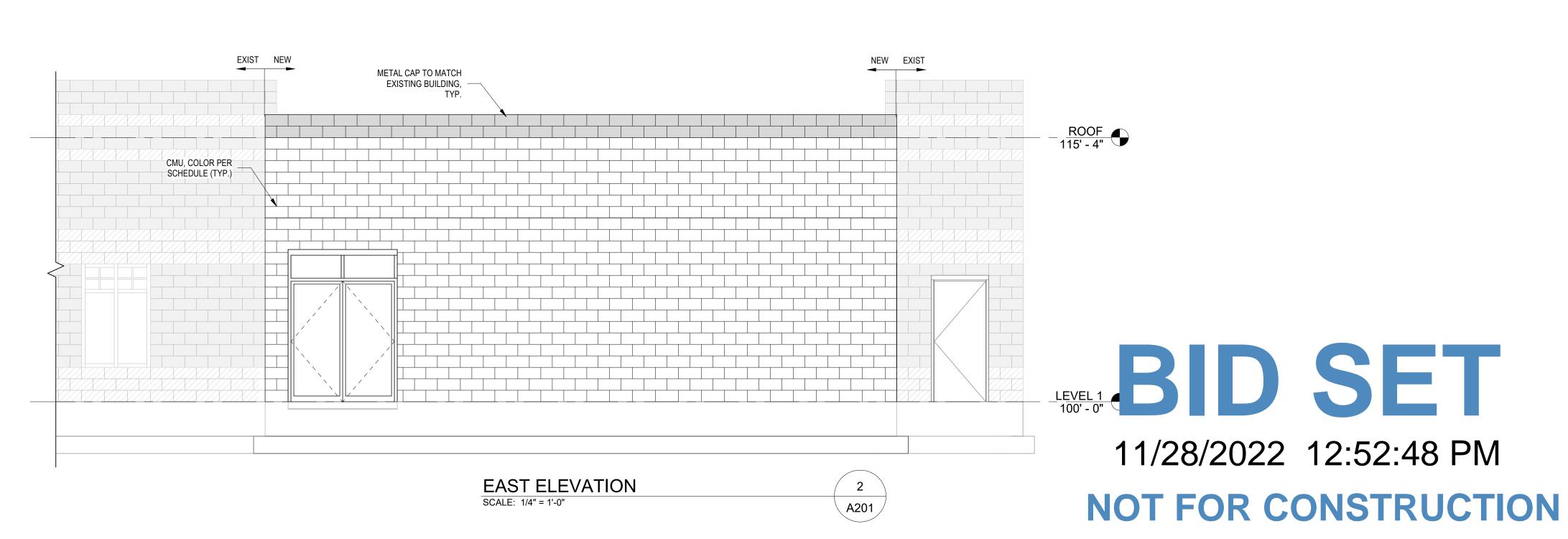
(CANYON RED COLOR)



NORTH ELEVATION

(1) (A201)





DATE: 11/16/2022

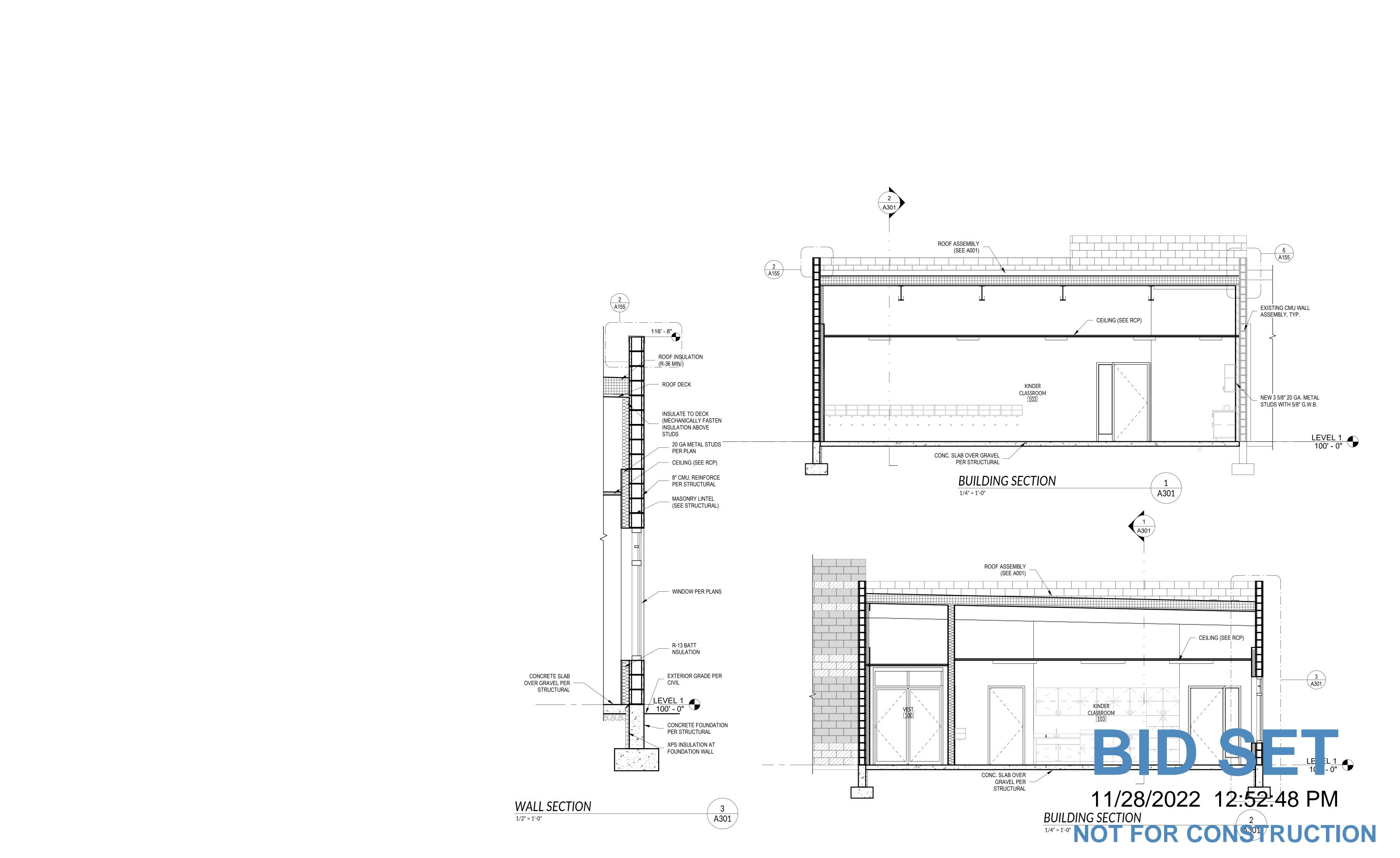
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OXVIEW DRIVE IORDAN, UTAH

PROJECT: AW-031.03 MANAGER: _CJ

REVISIONS # DATE DESCRIPTION

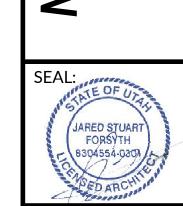
EXTERIOR ELEVATIONS



PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITTING AUTHORITIES.



FOXVIEW DRIVE TH JORDAN, UTAH

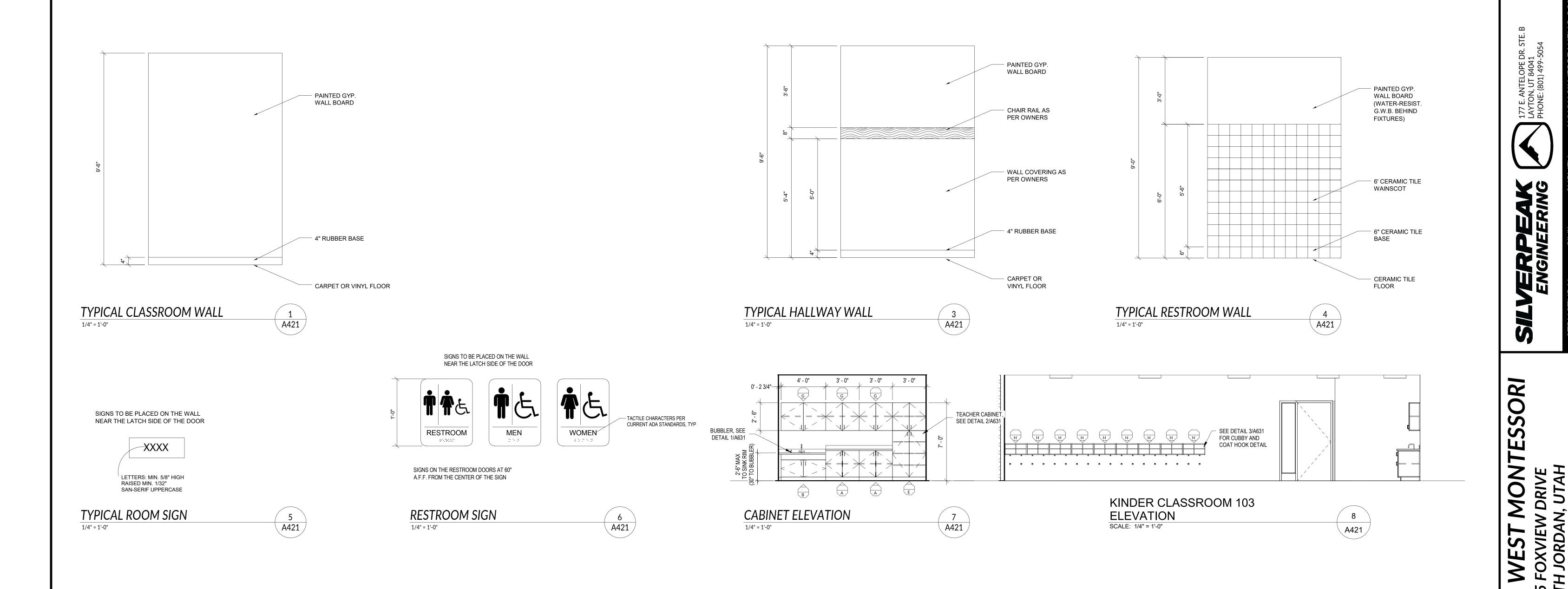


DATE: 11/16/2022 PROJECT: AW-031.03 MANAGER: _CJ

REVISIONS

DATE DESCRIPTION

BUILDING **SECTIONS**





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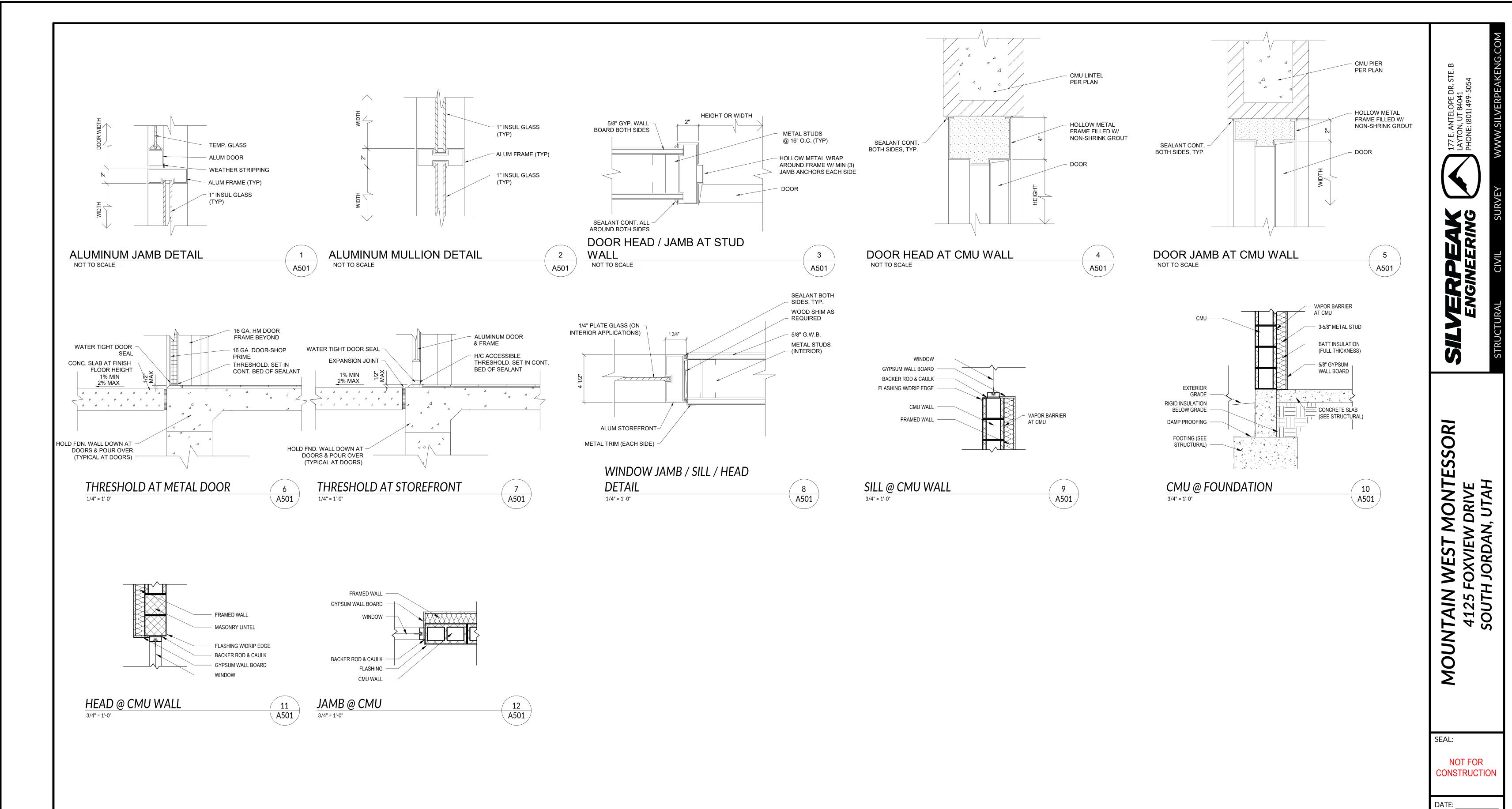
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INTERIOR ELEVATIONS

DATE: 10/08/2022
PROJECT: AW-031.03
MANAGER: _CJ

REVISIONS

DATE DESCRIPTIO





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DETAILS

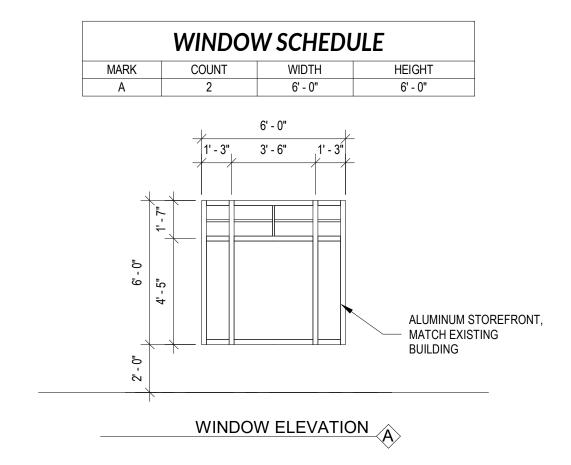
PROJECT: AW-031.03

REVISIONS

DATE DESCRIPTION

MANAGER: __CJ_

A501



DOOR NOTES

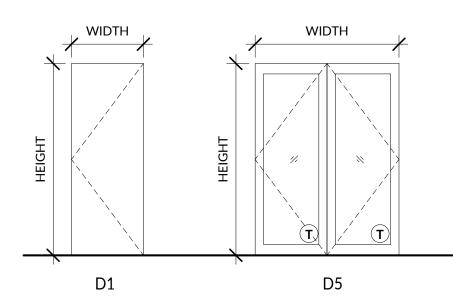
1. METAL STUDS AT ALL HOLLOW METAL DOOR FRAMES MUST BE MIN. 16 GA. STUDS
 2. FIELD VERIFY ROUGH OPENING DIMENSIONS
 3. SEE SHEET A501 FOR DOOR HEAD, JAMB AND THRESHOLD DETAILS
 4. ALL DOORS SHALL MATCH EXISTING CONDITIONS

WINDOW NOTES

SEE COMCHECK FOR U'FACTOR & SHGC VALUES
 INTERIOR WINDOWS, SUCH AS IN VESTIBULES, MAY BE SINGLED GLAZED GLASS
 ALL WINDOWS SHALL MATCH EXISTING CONDITIONS
 QUANTITIES & ROUGH OPENING DIMENSIONS
 SEE SHEET A501 FOR WINDOW HEAD, JAMB, SILL & MULLION DETAILS

	DOOR SCHEDULE										
DOOR							FRAME	HARDWARE			
MARK	TYPE	WIDTH	HEIGHT	THICKNESS	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	GROUP	NOTES		
100	D5	6' - 0"	7' - 0"	1 3/4"	ANODIZED ALUMINUM	D	ANODIZED ALUMINUM	14	PANIC HARDWARE & AUTO CLOSER		
101	D5	6' - 0"	7' - 0"	1 3/4"	ANODIZED ALUMINUM	D	ANODIZED ALUMINUM	15			
102	D5	6' - 0"	7' - 0"	1 3/4"	ANODIZED ALUMINUM	D	ANODIZED ALUMINUM	14	PANIC HARDWARE & AUTO CLOSER		
103	D1	3' - 0"	7' - 0"	1 3/4"	WOOD	С	HM	6			
103A	D1	3' - 0"	7' - 0"	1 3/4"	WOOD	С	HM	6			
104	D1	3' - 0"	7' - 0"	1 3/4"	WOOD	A	HM	9	PROVIDE AUTO CLOSER & LOCK		

DOOR TYPES



HARDWARE GROUPS

-CONTINUOUS HINGE

-PULLS & 1 RIM CYLINDER ON PAIRS

(NOT ALL HARDWARE GROUPS MAY BE APPLICABLE)

- *GROUP 6 (CLASSROOM DOORS & OTHER SINGLE WOOD DOORS; OUTSIDE LEVER LOCKED BY KEY, INSIDE LEVER ALWAYS UNLOCKED)
- 3 BB1279 4.5 X 4.5 US26D HINGES (HAGER)
 3 307D GRAY RUBBER SILENCERS (HAGER)
 1 ND70PD RHODES 626 CLASSROOM LOCKSET (SCHLAGE)
- 1 236W X US32D CONCAVE WALL STOP (HAGER) 1 - 190S 10 X 34 .05 US32D KICKPLATE (HAGER)
- *GROUP 9 (UNISEX RESTROOM DOOR W/ LOCK)
 3 BB1279 4.5 X 4.5 US26D HINGES (HAGER)
 3 307D GRAY RUBBER SILENCERS (HAGER)
- 1 5200 X 689 CLOSER (HAGER) 1 - 236W X US32D CONCAVE WALL STOP (HAGER)
- 1 ND40S RHODES 626 PRIVACY LATCHSET (SCHLAGE) 1 - 190S 10 X 34 .05 US32D KICKPLATE (HAGER) 1 - 9070-32 "UNISEX" ADA RESTROOM SIGN (DON-JO)
- -SWEEP BY DOOR MANUFACTURER
 -VON DUPRIN #4954 REMOVABLE MULLION ON PAIRS

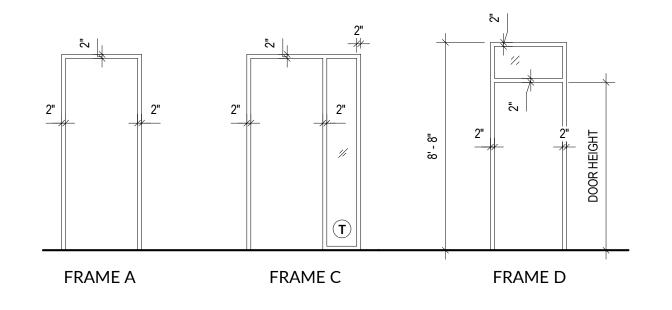
 *GROUP 15 (INTERIOR STOREFRONT DOORS)
- -MEDIUM STÎLE WITH 10" BOTTOM 14" CLEAR TEMPERED GLASS
 -PUSH-PULL BY DOOR MANUFACTURER
 -CONTINUOUS HINGE
 -LCN 4041 CLOSER WITH PARALLEL ARM BRACKET & DROP PLATE

*GROUP 14 (EXTERIOR STOREFRONT DOORS)
-WIDE STILE WITH 10" BOTTOM 1" LOW E INSULATED TEMPERED GLASS

-LCN 4041 CLOSER WITH PARALLEL ARM BRACKET & DROP PLATE

-VONDUPRIN 99 SERIES RIM PANIC WITH THUMB TURN CYLINDER DOGGING

DOOR FRAME TYPES



SAFETY GLASS LOCATIONS NOTE: NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK. **GLASS SCHEDULE** GLASS PRODUCT SCHEDULE FOR WALLS AND DOORS * - NOT ALLOWED AT SHOWER ENCLOSURES NP - NOT PERMITTED A - ACCEPTABLE NR - NOT RECOMMENDED SAFETY<u>NOT</u> REQUIRED FIRE -RATED SAFETY REQUIRED SAFETYNOT REQUIRED NON-FIRE -RATED NP * SAFETY REQUIRED SAFETY GLAZING (SG) IS REQUIRED FOR **GLAZED OPENINGS IN WET AREAS CLOSE PROXIMITY TO DOORS** STANDING SURFACE ANY GLASS AROUND THESE SAFETY GLASS IS TO BE USED FOR ALL DOORS AT AREAS AT 60" OR LESS HOT TUBS. WHIRLPOOLS. ABOVE THE STANDING SAUNAS, STEAM ROOMS. SURFACE IS TO BE SAFETY BATH TUBS OR SHOWERS SWIMMING POOLS, SPAS, **GLAZED OPENINGS IN PARTITIONS AND HOT TUBS** INTERIOR **EXTERIOR** INTERIOR **EXTERIOR** SAFETY BARS SAFETY BARS -DECK FLOOR -SURFACE SAFETY GLASS IS REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING IS LESS THAN / SAFETY GLASS IS REQUIRED IF: THE BOTTOM OF GLASS IS LESS THAN / * TOP OF GLAZING IS GREATER THAN / EQUAL EQUAL 60" AFF OR DECK EQUAL 18" AFF * AREA OF SINGLE PANE > 9 SF INTERIOR LITE DOES NOT NEED TO BE SAFETY * BOTTOM OF GLAZING IS LESS THAN / EQUAL GLAZING IS LESS THAN / EQUAL 60" FROM EDGE OF POOL, HOT TUB OR SPA GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED * WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES SAFETY GLASS IS REQUIRED FOR EXTERIOR LITE EXCEPT WHEN THE BOTTOM OF THE GLAZING IS GREATER THAN / EQUAL 25 FT GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 36" OF GLASS ABOVE GRADE STAIRWAY (OR RAMP) WITH ACCESSIBLE AREA OF 36" OR **STAIRWAY (OR RAMP) AGAINST BUILDING MORE BETWEEN STAIR (OR RAMP) AND BUILDING** ACCESSIBLE AREA - HANDRAIL / GUARDRAIL **PLAN** - HANDRAIL / GUARDRAIL **SECTION** STAIRWAY (OR RAMP) WITHIN 18", OR LESS, - HANDRAIL / GUARDRAIL **SECTION** — HANDRAIL / GUARDRAIL HANDRAIL / GUARDRAIL SECTION

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DOOR AND WINDOW SCHEDULE

DATE: 11/16/2022 PROJECT: AW-031.03

MANAGER: CJ

REVISIONS

DATE DESCRIPTION

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A601

FINISH SCHEDULE - INTERIOR														
			FLO	OR		BASE		WALLS		S	CEILING			
ROOM NUMBER	ROOM NAME	CARPET	NON-POROUS CERAMIC TILE	VCT (VINYL COMPOSITE TILE)	MODULAR CARPET TILES	RUBBER BASE	CERAMIC TILE	PAINTED G.W.B.	6' CERAMIC TILE WAINSCOT	6" WAINSCOT	2X4 ACOUSTIC CEILING	PAINTED G.W.B.	PAINTED EXPOSED CEILING	NON-POROUS GRID CEILING
100	VEST.				Χ	Χ		Х				Х		
101	CORRIDOR	Χ				Χ		Χ		Х	Χ			
102	KINDER ENTRY				Χ	Χ		Х				Х		
103	KINDER CLASSROOM	Х		Χ		Χ		Х			Х			
104	R.R.		Х				Х	Х	Х			Х		

FINISH PLAN GENERAL NOTES

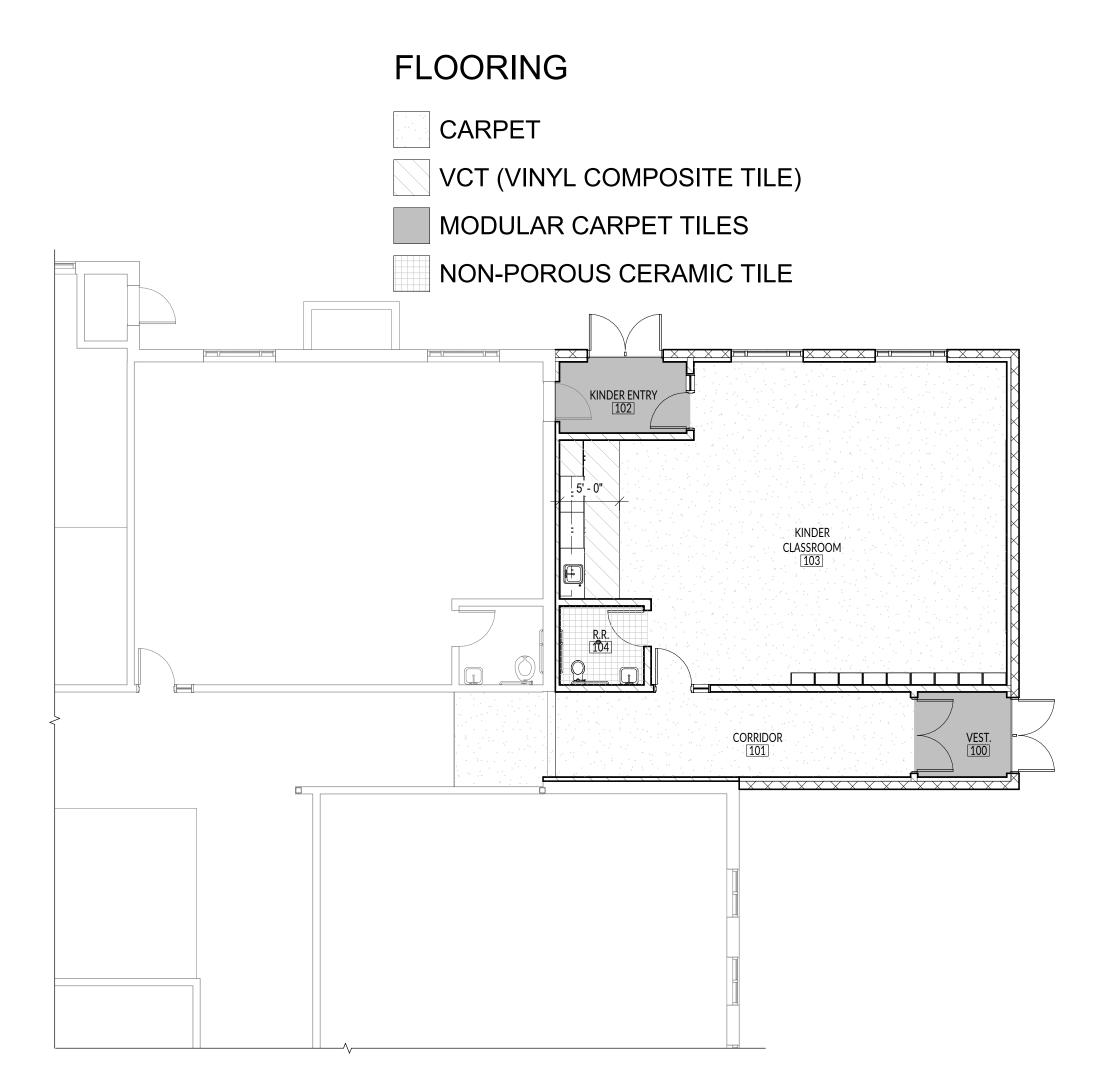
ALL GWB CORNERS SHALL BE FINISHED WITH 2"X2" STAINLESS STEEL CORNER GUARD WITH SMOOTH EDGES. ATTACH PER MANUFACTURER'S INSTRUCTIONS ALL FLAMESTARE AND REQUIREMENTS ARE

ALL FLAME SPREAD REQUIREMENTS ARE
TO BE MEET AS PER IBC 2018 CURRENT
CODE
ALL THRESHOLDS TO BE A MAXIMUM OF 1/2"
ALL WALLS ADJACENT TO SOURCES OF

ALL WALLS ADJACENT TO SOURCES OF MOISTURE SHALL BE FINISHED WITH TILE OR FRP AS NOTED IN THE FINISH SCHEDULE AREAS SHOWN ARE APPROXIMATE

AREAS SHOWN ARE APPROXIMATE
CONTRACTOR TO VERIFY PRIOR TO
ORDERING MATERIAL
FINISHES TO MATCH EXISTING CONDITIONS

FLAME SPREAD REQUIREMENTS						
MATERIAL	FLAME SPREAD					
GYPSUM BOARD (WITH PAPER ON BOTH SIDES)	10 TO 25					
CONCRETE BLOCK	0					
CARPETING	10 TO 600					
CONCRETE	0					
ACOUSTICAL CEILING TILE	10 TO 25					
NORTHERN PINE (TREATED)	20					
SOUTHERN PINE (UNTREATED)	130 TO 190					
VCT FLOORING	25					
WOOD DOOR	100					
CERAMIC TILE	25 OR LESS					
FRP	25					
RUBBER BASE	150					



LEVEL 1 - FINISH PLAN

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

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NOT FOR CONSTRUCTION

MOUNTAIN WEST MON 4125 FOXVIEW DRIVE SOUTH JORDAN, UTAH

SEAL:

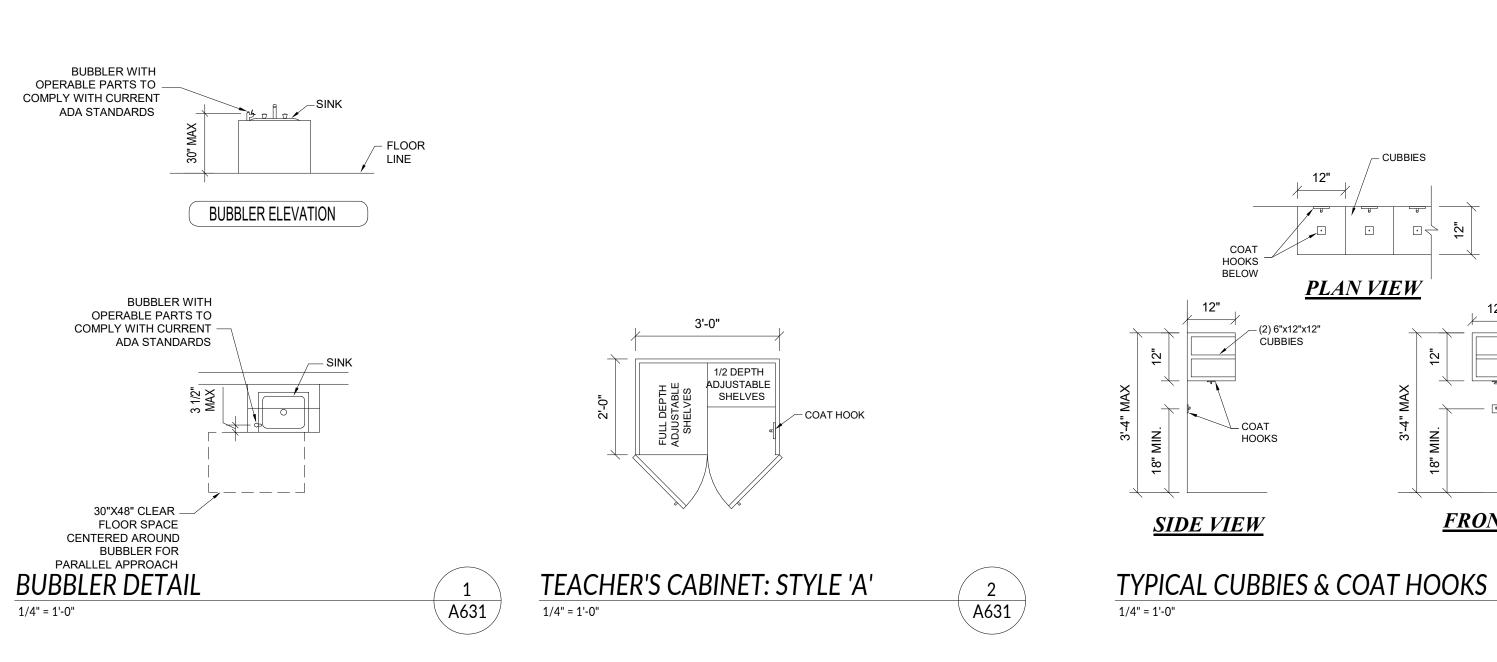
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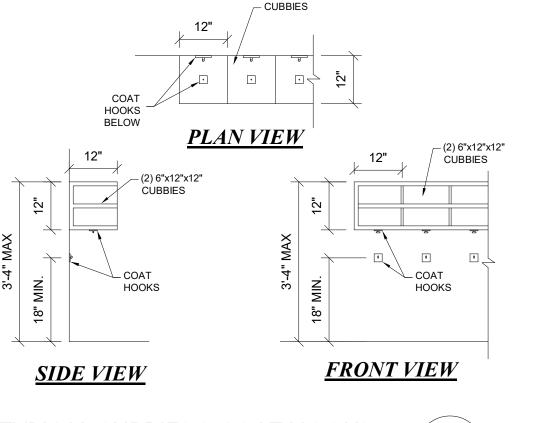
DATE: 11/16/2022
PROJECT: AW-031.03
MANAGER: CJ

REVISIONS # DATE DESCRIPTION

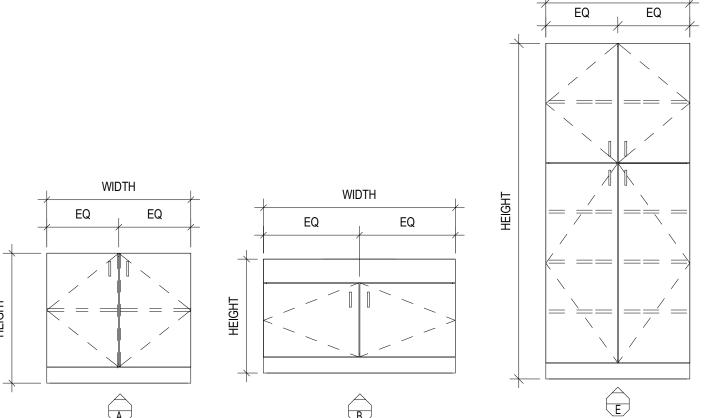
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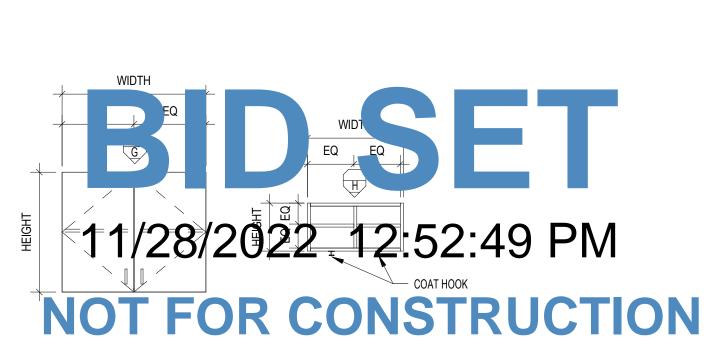
FINISH SCHEDULE





CASEWORK SCHEDULE								
TYPE	Count	Width	Height	Depth				
Α	2	3' - 0"	2' - 8 1/2"	2' - 0"				
В	1	4' - 0"	2' - 4 1/2"	2' - 0"				
G	2	3' - 0"	2' - 6"	1' - 0"				
G	1	4' - 0"	2' - 6"	1' - 0"				
Н	9	2' - 0"	1' - 0"	1' - 0"				
E	1	3' _ N"	7' _ N"	2' _ 0"				





TESSORI FOXVIEW DRIVE TH JORDAN, UTAH MOUNT

A631

DATE: 11/16/2022 PROJECT: AW-031.03 MANAGER: __CJ

REVISIONS # DATE DESCRIPTION

CASEWORK SCHEDULE

CONTRACTOR SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED,

3. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC., AT THE SITE AND SHALL COORDINATE WORK PERFORMED BY ALL TRADES. DO NOT SCALE DRAWINGS

THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED.

4. SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER/ARCHITECT PRIOR TO FABRICATION OR ERECTION FOR ANY PREFABRICATED OR MANUFACTURER- DESIGNED COMPONENTS AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THIS STRUCTURE

5. SIZES, LOCATIONS, LOADS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO FABRICATION OR INSTALLATION OF

TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE

7. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOAD.

8. CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM THEIR TRADES AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE CURRENTLY ADOPTED INTERNATIONAL BUILDING CODE, (OR LATEST ACCEPTED CODE ADOPTED BY THE LOCAL BUILDING

9. ANY SPECIAL INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING CODE ARE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE

FOUNDATION AND EARTHWORK NOTES

GSH GEOTECHNICAL

0990-026-13

1.3. DATED 10/23/2013 1.4. SOIL BEARING CAPACITY (PSF) 2000 ON COMPACTED FILL 1.5. FROST PROTECTION (TO BOTTOM OF FOOTING) 30 INCHES MINIMUM CONTRACTOR SHALL ENSURE THAT THE FOOTING ELEVATIONS WILL PROVIDE MINIMUM FROST PROTECTION BELOW THE FINAL GRADES. 1.6. LATERAL SOIL PRESSURES (EQUIVALENT FLUID DENSITY 1.6.1. ACTIVE (RETAINING WALLS) 35 PCF 45 PCF 1.6.2. MODERATELY NON-YIELDING WALLS 1.6.3. AT REST (RIGID FOUNDATION WALLS) 55 PCF 1.6.4. PASSIVE 300 PCF 1.6.4.1.

SOILS INFORMATION / REPORT

1.2. SOILS REPORT PROJECT NUMBER

1.7. COEFFICIENT OF FRICTION

1.1. SOILS REPORT BY

ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THOSE USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILI COMPACTED TO 95% OF MAX DENSITY, BASED ON ASTM D 1557 METHOD OF COMPACTION. FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU SOILS. FILL SHALL BE COMPACTED UNDER ALL CONCRETE WORK ON THE SITE

4. NO FOOTINGS SHALL BE PLACED IN WATER, SNOW, FROZEN GROUND, OR UNSTABLE SOILS.

ALL EXCAVATIONS ADJACENT TO AND BELOW FOOTING ELEVATION FOR OTHER TRADES SHALL BE ACCOMPLISHED PRIOR TO POURING ANY FOOTINGS.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR LATERALLY SUPPORTING ALL RETAINING TYPE FOUNDATION WALLS WHILE COMPACTING BEHIND WALLS AND UNTIL ALL SUPPORTING MEMBERS HAVE BEEN PLACED (SUCH AS FLOOR SLABS). ALL OPEN EXCAVATIONS AND TRENCHES SHALL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS

7. ALL REINFORCEMENTS SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.

8. PROVIDE DOWELS IN FOOTING AND FOUNDATIONS TO MATCH ALL VERTICAL BARS IN WALLS AND COLUMNS ABOVE, UNLESS NOTED OTHERWISE.

9. CONSULT THE PROJECT SPECIFICATIONS AND SOILS REPORT FOR FURTHER EARTHWORK

10. PROVIDE CONTROL JOINTS (SEE TYPICAL DETAILS) IN SLABS AT A MAX. OF 15 FT. o.c. EACH WAY AND AS SHOWN ON PLANS. POUR SLABS BETWEEN CONTROL JOINTS, SO THAT ADJACENT POURS ARE STAGGERED AT LEAST TWO DAYS APART. SHORTLY AFTER SLABS ARE POURED, MAKE SAW- CUT JOINTS AT A MAX. OF 15 FT. o.c. BETWEEN POUR CONTROL JOINTS.

CONCRETE NOTES

 CONCRETE MATERIALS: 1.1. CEMENT TYPE - ASTM C-150

CEMENT SOURCE SHALL REMAIN THE SAME FOR THE ENTIRE JOB.

1.2. BLENDED CEMENT - ASTM C1157 CLASS F, 25% MAX CEMENT. CONTENT

1.3. FLY ASH - ASTM C618 1.4. ADMIXTURES:

1.4.1. AIR-ENTRAINING - ASTM C260

1.4.2. WATER-REDUCING ADMIXTURE - ASTM C494, TYPE A

1.4.3. RETARDING ADMIXTURE - ASTM C494, TYPE B 1.4.4. WATER-REDUCING AND RETARDING ADMIXTURE - ASTM C494, TYPE F

1.4.5. HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURE - ASTM 494, TYPE G 1.4.6. ADMIXTURE MANUFACTURER SHALL HAVE ISO 9001 QUALITY CERTIFICATION

1.4.7. ALL ADMIXTURES SHALL BE FROM THE SAME MANUFACTURER TO ENSURE COMPATIBILITY

1.4.8. CALCIUM CHLORIDE SHALL NOT BE ADDED TO THE CONCRETE MIX

1.5. NORMAL WEIGHT AGGREGATES ASTM C33

1.5.2. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% TO 18% FOR LARGE TOP SIZE AGGREGATES (1 1/2") OR 8% TO 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100. THE RANGE FOR THE NO. 30 AND NO. 50 SIEVES SHALL

BE 8% TO 15% RETAINED IN EACH. TO AVOID GAP GRADING THE FOLLOWING SHALL OCCUR 1.5.2.1. THE PERCENT RETAINED ON TWO ADJACENT SIEVES SHALL NOT FALL BELOW 5% 1.5.2.2. THE PERCENT RETAINED ON THREE ADJACENT SIEVES THAT NOT FALL BELOW 8%

1.5.2.3. WHEN THE PERCENT RETAINED ON TWO ADJACENT SIEVES IS LESS THAN 8%, THE TOTAL RETAINED ON EITHER OF THESE SIEVES AND THE ADJACENT OUTSIDE SIEVE SHALL BE AT LEAST 13%. SEE ACI 302 SECTION 5.4.3.3 1.5.3. A GRADATION CHART OR TABLE SHALL BE SUBMITTED WITH MIX DESIGNS FOR SLABS ON

GRADE

1.5.4. MAXIMUM AGGREGATE SIZE SHALL BE NOT LARGER THAN:

1.5.4.1. 1/5 THE NARROWEST DIMENSION OF THE FORMS 1.5.4.2. 1/3 THE DEPTH OF THE SLAB

1.5.4.3. 3/4 THE MINIMUM SPACING BETWEEN BARS

1.6. REINFORCING STEEL - ASTM A615, GRADE GO (Fy = 60 ksi) USE GRADE 40 (Fy = 40 ksi) FOR FIELD BENT DOWELS WITH SPACINGS REDUCED BY 1/3 FROM

THAT INDICATED IN THE DRAWINGS. 1.7. HEADED REINFORCING BARS ASTM A970 1.8. EPOXY COATED REINFORCING BARS ASTM A775 1.9. DEFORMED BAR ANCHORS (DBA) ASTM A496 1.10. HEADED STUD ANCHORS (HSA) ASTM A108 1.11. HEADED SHEAR STUD REINFORCEMENT ASTM A1044 1.12. ANCHOR RODS (TYPICAL) ASTM F1554, GRADE 36 1.12.1. HEAVY HEX NUTS AND HARDENED WASHERS ASTM A563

1.13. WATER CEMENT RATIO SHALL MEET THE REQUIREMENTS OF ACI 318 1.14. PROVIDE AIR ENTRAINMENT AS RECOMMENDED BY ACI 318. HORIZONTAL USE CONCRETE THAT EXTENDS ABOVE GRADE AND IS EXPOSED TO FREEZING AND

THAWING WHILE MOIST SHALL BE AIR ENTRAINED (UNLESS OTHERWISE INDICATED) 1.15. ITEMS NOT PERMITTED TO BE DIRECTLY EMBEDED IN CONCRETE ARE ALUMINUM CONDUIT,

PRODUCTS CONTAINING ALUMINUM, OR OTHER SUCH NON-COMPATIBLE MATERIALS. CONCRETE COMPRESSIVE STRENGTHS OF CONCRETE AT 28 DAYS AND ACI 318 CLASSIFICATIONS

SHALL BE AS FOLLOWS (OR AS OTHERWISE INDICATED)

2.1. EXTERIOR FOOTINGS & EXTERIOR FOUNDATION WALLS STRENGTH 3,000 PSI CLASSIFICATION F0, S0, W0, C0 2.2. INTERIOR SLABS ON GRADE

4,000 PSI STRENGTH CLASSIFICATION F0, S0, W0, C0 2.3. ALL SITE CONCRETE WITH REINFORCEMENT STRENGTH 5,000 PSI CLASSIFICATION F3, S0, W1, C2 2.4. ALL SITE CONCRETE WITHOUT REINFORCEMENT

STRENGTH 4,500 PSI CLASSIFICATION F3, S0, W1, C2 REINFORCEMENT COVER

3.1. CAST-IN-PLACE CONCRETE 3.1.1. PERMANENTLY CAST AGAINST EARTH 3.1.2. FORMED CONCRETE EXPOSED TO WEATHER

#5 BARS AND SMALLER #6 THROUGH #18 BARS 3.1.3. CONCRETE NOT EXPOSED TO WEATHER OR AGAINST EARTH

SLABS, WALLS AND THEIR PIERS 1 1/2" BEAMS, COLUMNS: 3.1.4. SUSPENDED SLABS #11 BARS AND SMALLER (TOP)

3.1.5. BEAMS: TIES, STIRRUPS, SPIRALS (TOP)

#11 BARS AND SMALLER (BOTTOM)

TIES, STIRRUPS, SPIRALS (BOTTOM) 1 1/2" ONLY ONE GRADE OR TYPE OF CONCRETE SHALL BE POURED ON THE SITE AT ANY GIVEN TIME. 4.1. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY

THE ACI STANDARDS AND PRACTICES THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND FORMWORK.

5.1. SUPPORTING FORMS AND SHORING SHALL NOT BE REMOVED UNTIL STRUCTURAL MEMBERS HAVE ACQUIRED SUFFICIENT STRENGTH TO SAFELY SUPPORT THEIR OWN WEIGHT AND ANY CONSTRUCTION LOAD TO WHICH THE MAY BE SUBJECTED.

CONSTRUCTION JOINTS, CONTROL JOINTS 6.1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION JOINTS SHALL BE KEYED WITH A KEY 1-1/2" DEEP, A LENGTH 2" LESS THAN THE MEMBER, AND A WIDTH 1/2 OF THE MEMBER. REINFORCING

SHALL BE CONTINUOUS THRU JOINT. 6.2. UNLESS NOTED OTHERWISE, CONTROL JOINTS (CONTRACTION JOINTS) SHALL BE SPACED NO FURTHER THAN 30 TIMES THE SLAB THICKNESS. THE CONTROL JOINTS SHALL BE INSTALLED SO THAT THE LENGTH TO WIDTH RATIO IS NO MORE THAN 1.20:1.

6.2.1. CONTROL JOINTS SHALL BE COMPLETED AS SOON AS FINAL SET IS ACHIEVED. THE JOINT DEPTH FOR SAWCUT AND TOOLED JOINTS SHALL BE 1/4" THE SLAB THICKNESS. THE SAWCUT DEPTH SHALL INCREASE TO 1/3 THE SLAB THICKNESS FOR MACRO FIBER REINFORCED SLABS.

CONSTRUCTION AND DETAILING 7.1. ALL SPLICES IN CONTINUOUS CONCRETE REINFORCING BARS SHALL LAP 40 BAR DIAMETERS. ALL

SUCH SPLICES SHALL BE MADE IN A REGION OF COMPRESSION UNLESS OTHERWISE SHOWN. 7.2. ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED WITH 2 #5 BARS EXTENDING 2'0" MIN

BEYOND THE EDGE OF THE OPENING AT EACH FACE OF OPENING (UNLESS NOTED OTHERWISE). 7.3. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT. OF

ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK. 7.4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENT, CLIPS OR GROUNDS.

REQUIRED TO BE ENCASED IN CONCRETE AND FLOOR LOCATION OF FLOOR FINISHES AND SLAB 7.5. NO PIPES, DUCTS, SLEEVES, ETC SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. PENETRATIONS

THROUGH WALLS WHEN APPROVED SHALL BE BUILT INTO THE WALL PRIOR TO CONCRETE PLACEMENT. PENETRATIONS THROUGH WALLS WHEN APPROVED SHALL BE BUILT INTO THE WALL PRIOR TO CONCRETE PLACEMENT.

7.6. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE CURRENT

7.7. USE CHAIRS OR OTHER SUPPORT DEVICES RECOMMENDED BY THE CRSI TO SUPPORT AND TIE REINFORCEMENT BARS PRIOR TO PLACING CONCRETE. REINFORCING STEEL FOR SLABS ON GRADE AND SLABS OVER METAL DECK SHALL BE ADEQUATELY SUPPORTED. SUPPORT REINFORCING STEEL OF SLABS ON GRADE WITH PRECAST CONCRETE UNITS. LIFTING THE REINFORCING OFF THE GRADE OR DECK DURING PLACEMENT IS NOT PERMITTED.

7.8. FOR STEPS IN FOUNDATION GREATER THAN 2 FEET, WRAP CORNER W/2- #4 BARS EXTENDING 18"

7.9. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY NOTED ON DRAWINGS.

POST INSTALLED ANCHOR NOTES

1. ADHESIVE ANCHORS (EPOXY ANCHORS)

1.1. FOR CONCRETE, THE ADHESIVE SHALL BE HIT RE 500-SD BY HILTI INC., HIT-HY 200 WITH SAFE SET TECHNOLOGY BY HILTI, PURE 110 + BY POWERS FASTENERS, SET-XP BY SIMPSON STRONG-TIE OR AT-XP BY SIMPSON STRING-TIE, SIKA ANCHORFIX-3001 BY SIKA CORPORATION.

1.2. FOR GROUTED MASONRY, THE ADHESIVE SHALL BE HIT-HY 70 BY HILTI, SET-XP BY SIMPSON STRING-TIE OR AT-XP BY SIMPSON STRONG-TIE, AC100 + BY POWERS FASTENERS, OR CIA GEL BY

1.3. FOR UNGROUTED MASONRY, THE ADHESIVE SHALL BE HIT-HY 70 BY HILTI OR SET BY SIMPSON STRONG-TIE OR AC100 + BY POWERS FASTENERS, PLASTIC MESH OR STAINLESS STEEL SCREEN TUBES SHALL BE USED.

MECHANICAL ANCHORS

2.1. FOR CONCRETE, THE MECHANICAL ANCHOR SHALL BE KWIK BOLT TZ BY HILTI, STRONG-BOLT 2 BY

SIMPSON STRONG-TIE, OR POWER-STUD + SD2 BY POWERS FASTENERS. 2.2. FOR GROUTED MASONRY, THE MECHANICAL ANCHOR SHALL BE KWIK BOLT 3 BY HILTI, WEDGE ALL BY SIMPSON STRONG-TIE OR STRONG-BOLT 2 BY SIMPSON STRONG-TIE, OR POWER-STUD + SD1 BY POWERS FASTENERS

3.1. FOR CONCRETE AND GROUTED MASONRY, THE SCREW ANCHOR SHALL BE TITEN HD FOR CONCRETE ONLY BY SIMPSON STRONG-TIE, SCREW BOLT + BY DeWALT, WEDGE-BOLT + BY

POWERS FASTENERS OR KWIK HUS-EZ FOR CONCRETE ONLY BY HILTI.

4. POWDER ACTUATED FASTENERS (PAF)

4.1. FOR FASTENERS DRIVEN INTO STEEL, THE FASTENER SHALL BE X-U P8 TH UNIVERSAL KNURLED SHANK FASTENER BY HILIT., PDPA BY SIMPSON STRONG-TIE, OR 8mm HEAD SPIRAL CSI DRIVE PIN

4.2. FOR FASTENERS DRIVEN INTO CONCRETE, THE FASTENER SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENER BY HILTI, PDP OR PDPA BY SIMPSON STRONG-TIE OR 8mm HEAD SPIRAL CSI DRIVE PIN BY POWERS FASTENERS.

5. INSTALL ALL ANCHORS PER MANUFACTURER'S REQUIREMENTS. THESE REQUIREMENTS INCLUDE. BUT ARE NOT LIMITED TO, HOLE PREPARATION, EPOXY PROPORTIONS AND QUANTITIES, INSTALLATION

TEMPERATURE, AND CURE TIMES

6. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND CERTIFICATION TESTING REPORTS FOR

ALTERNATIVE ANCHORS MAY BE USED IF AN ICC-ES ESR OR IAPMO-UES ER APPROVAL FOR USE IN CRACKED CONCRETE IS SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO USE.

WHERE A SPECIFIC ANCHOR IS CALLED OUT ON THE PLAN, THAT ANCHOR SHALL BE USED UNLESS IT CAN BE DEMONSTRATED THAT AN ALTERNATIVE ANCHOR WILL MEET OR EXCEED THE CAPACITY OF THE SPECIFIED ANCHOR FOR THE SPECIFIC APPLICATION FOR WHICH IT IS BEING SPECIFIED.

MASONRY NOTES

f'm = 2,000 PSI

MASONRY MATERIALS:

1.1. CONCRETE MASONRY UNITS (CMU) ASTM C90:

LIGHTWEIGHT GRADE N 2,800 PSI 1.1.1. MINIMUM NET AREA UNIT STRENGTH:

1.2. MORTAR CEMENT: USE TYPE "S" ACCORDING TO IBC SECTION 2103.7 AND TESTED EVERY 5,000 SQUARE FEET ACCORDING TO ASTM C270 1.2.1. ADMIXTURE SHALL NOT BE ADDED TO THE MORTAR MIX. (1,500 PSI MINIMUM COMPRESSIVE

NOT USE CALCIUM CHLORIDE IN THE MORTAR. 1.3. MASONRY GROUT ASTM C476: GROUT SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF

STRENGTH FOR FIELD SPECIMENS) TESTING SHALL BE CONTRACTED BY THE OWNER. DO

1.3.1. SHALL BE PROPORTIONED ACCORDING TO IBC SECTION 2103.10 AND TESTED EVERY 5,000 SQUARE FEET ACCORDING TO IBC TABLE 2103.10. TESTING SHALL BE CONTRACTED BY THE

ASTM A615, GRADE 60 (fy = 60 KSI) 1.4. REINFORCING STEEL: ASMT A951 1.5. WIRE JOINT REINFORCING 1.6. DEFOREMED BAR ANCHORS (DBA) ASTM A496 1.7. HEADED STUD ANCHORS (HSA): ASTM A108 1.8. ANCHOR RODS: ASTM F1554, GRADE 36 1.8.1. HEAVY HEX NUTS AND HARDENED WASHERS ASTM A563 / ASTM F436

MORTAR JOINTS: JOINTS SHALL BE "CONCAVE", "V-JOINT" OR "WEATHERED RAKED" FOR STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE.

3. MASONRY WALLS, BEAMS AND COLUMNS SHALL BE CONSTRUCTED WITH RUNNING BOND, UNLESS NOTED OTHERWISE.

4. GROUTING REQUIREMENTS: COMPLY WITH IBC SECTION 2104 AND ACI 530.1/ASCE 6/TMS 602. GROUT SHALL BE MECHANICALLY CONSOLIDATED AND MECHANICALLY RECONSOLIDATED ACCORDING TO ACI 530.1/ASCE 6/TMS SECTION 3.5E.

5. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY SHOWN ON DRAWINGS. IN SUCH CASES, USE ONLY AWS STANDARDS.

6. STANDARDS: REINFORCING DETAILING SHALL COMPLY WITH AMERICAN CONCRETE INSTITUTE (ACI) STANDARD 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

7. REINFORCEMENT PROTECTION (COVER):

7.1. JOINT REINFORCEMENT SHALL HAVE NOT LESS THAN 5/8" MORTAR COVERAGE FROM THE EXPOSED FACE.

7.2. OTHER REINFORCEMENT SHALL HAVE A MINIMUM COVERAGE OF ONE BAR DIAMETER OVER ALL THE BARS, BUT NOT LESS THAN 3/4".

8. LAP ALL MASONRY REINFORCING PER BAR SIZE AS FOLLOWS:

REQUIRED LAP LENGTHS FOR SINGLE BARS CENTERED IN EACH CELL #3 = 15" #6 = 36" #9 = 64" #4 = 20" #7 = 42"

#5 = 25" #8 = 53" REQUIRED LAP LENGTHS FOR 2 BARS PER CELL WITH 2" COVER:

#4 = 22" #7 = 63"

9. CORNER BARS: HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS AT ALL CORNERS AND AT INTERSECTING WALLS. PROVIDE CORNER BARS WITH THE REQUIRED LAP SPLICE LENGTH.

10. ALL VERTICAL REINFORCING SHALL BE DOWELED TO THE FOUNDATION WALL, (STRUCTURE BELOW) AND TO THE STRUCTURE ABOVE WITH THE SAME DOWEL SIZE, SPACING (AND IN THE SAME CORE) AS THE VERTICAL WALL REINFORCING UNLESS NOTED OTHERWISE.

11. WALL OPENINGS 24" AND WIDER: PROVIDE REINFORCED MASONRY LINTELS PER MASONRY LINTEL SCHEDULE OVER THE TOP OF, AND 2- #5 BARS, IN GROUTED SPACES, ON ALL SIDES AND ADJACENT TO EVERY UNSCHEDULED OPENING, UNLESS NOTED OTHERWISE. BARS FOR ALL OPENINGS SHALL EXTEND A MINIMUM OF 48 BAR DIAMETERS BEYOND THE CORNERS OF THE OPENING. WHERE A 48 BAR DIAMETER EXTENSION IS NOT POSSIBLE. EXTEND BARS AS FAR BEYOND THE OPENING AS POSSIBLE AND TERMINATE THEM WITH A 90 DEGREE STANDARD ACI HOOK.

12. ALL MASONRY COLUMN TIES SHALL TERMINATE WITH 135 DEGREE HOOKS PLUS A 6 BAR DIAMETER EXTENSION (4" MINIMUM).

13. WALL REINFORCING SHALL BE AS NOTED ON THE PLANS, BUT NOT LESS THAN THE FOLLOWING: 8" CMU WALLS W/ #5 VERT. @ 32" O.C. & (1) #5 HORIZ. @ 48" O.C. 12" CMU WALLS W/ (2) #5 VERT. @ 24" O.C. & (1) #6 HORIZ. @ 48" O.C.

14. ADDITIONAL LADDER-TYPE JOINT REINFORCING (DUR-O-WALL) CONSISTING OF (2) #9 GALVANIZED WIRES SHALL BE USED HORIZONTALLY AT 16" O.C. IN ALL MASONRY WALLS. JOINT REINFORCING SHALL BE THE STANDARD WIDTH FOR THE WALL THICKNESS IT IS REINFORCING.

15. PROVIDE MASONRY CONTROL JOINTS @ A SPACING OF (2) TIMES THE WALL HEIGHT OR 40'-0" MAX (WHICHEVER IS LESS) ON ALL MASONRY WALLS.

16. WE RECOMMEND THE USE OF AN INTEGRATED WATER REPELLENT ADMIXTURE FOR BLOCK AND MORTAR. SEE SPECIFICATIONS FOR DETAIL.

STEEL NOTES

1. STEEL MATERIALS 1.1. WIDE FLANGE SECTIONS ASTM A992 (Fy = 50 ksi) 1.2. ANGLES, CHANNELS, OTHER SHAPES AND PLATES ASTM A36 (Fy = 36 ksi)

1.3. NON-METALLIC NON-SHRINK GROUT ASTM C1107 1.4. ANCHOR RODS (TYPICAL) ASTM F1554, GRADE 36 1.4.1. HEAVY HEX NUTS AND HARDNED WASHERS ASTM A563 / ASTM F436 GRADE A 1.5. BOLTED CONNECTIONS ASTM F3125 GRADE A325

1.5.1. NUTS AND HARDENED WASHERS ASTM A563 / ASTM F436 2. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:

2.1. AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WITH "COMMENTARY". 2.2. AISC "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING SECTIONS: 1.5.1, 3.3 (FIRST

SENTENCE), 4.2, 4.2.1, 4.2.2, 7.5.4, 7.11.5. 2.3. AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" 2.4. AWS STRUCTURAL WELDING CODE (SPECIFIC ITEMS DO NOT APPLY WHEN THEY CONFLICT WITH

THE AISC REQUIREMENTS). 2.5. AISC "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" (AISC 341)

WELDING

3.1. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION). 3.2. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DECKS.

3.3. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN USE THE FOLLOWING: 1) WHERE ALL CONNECTED PARTS ARE THICKER THAN 1/4", WELD IS 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART. 2) WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD IS SAME AS THE THICKNESS OF THE

3.4. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY DETAILED. IN SUCH CASES, USE ONLY AWS STANDARDS. DO NOT SUBSTITUTE REINFORCING BARS FOR DEFORMED BAR

3.5. DO NOT TACK WELD ANCHOR BOLTS.

3.6. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR. FIELD WELD FLAGS THAT HAVE BEEN SHOWN ON THE DRAWINGS ARE FOR SUGGESTION ONLY. THE CONTRACTOR HAS THE OPTION OT SUBSTITUTE SHOP WELDS FOR FIELD WELDS

3.7. STEEL FABRICATORS SHALL INDICATE THE SHOP WELDS THAT ARE EXCLUDED FROM THEIR BIDS. STEEL ERECTORS SHALL INDICATED FIELD WELDS THAT ARE EXCLUDED FROM THEIR BIDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE FIELD AND SHOP WELDS WITH THE VARIOUS SUB CONTRACTORS.

BOLTED CONNECTIONS:

4.1. USE ASTM A325N BOLTS FOR STEEL TO STEEL CONNECTIONS OR AS NOTED ON THE DRAWINGS. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION.

4.2. USE HARDENED WASHERS BENEATH THE TURNED ELEMENT OF ALL BOLTS OR NUTS. AT OVERSIZED HOLES, HARDENED WASHERS OR PLATES SHALL CONFORM WITH ASTM F436 AND SMALL COMPLETELY COVER THE SLOT AFTER INSTALLATION.

4.3. WHERE A STEEL TO STEEL BEAM CONNECTION IS NOT SHOWN, PROVIDE A STANDARD AISC FRAMED CONNECTION FOR ONE HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM FOR

4.4. PROVIDE FULL-DEPTH WEB-STIFFENER PLATES EACH SIDE OF ALL BEAMS AT ALL BEARING POINTS. STIFFENER PLATES SHALL BE THE THICKNESS CALLED OUT BELOW UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND.

FLANGE WIDTH STIFFENER THICKNESS / WELD SIZE **LESS THAN 8-1/4"** 1/4" - 3/16" 8-1/4" TO 12-1/4" 3/8" - 1/4" 12-1/4" TO 16-1/2" 1/2" - 5/16" 16-1/2" TO 20-3/4" 5/8" - 3/8"

CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.

6. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY DURING ERECTION OF STEEL FRAMING & SHALL ENSURE THAT BRIDGING HAS BEEN INSTALLED PRIOR TO SLACKENING HOISTING CABLES FOR STEEL JOISTS.

STEEL DECK NOTES

1. STEEL DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE

2. ALL DECK SHALL BE CONTINUOUS OVER 3-SPANS. WHERE NOT POSSIBLE, THE DECK SUPPLIER/CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS NEEDED TO PROVIDE THE EQUIVALENT PERFORMANCE OF THE SPECIFIED DECK WITH 3-SPAN CONTINUITY.

3. STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM PLUMBING, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED LIGHT WEIGHT SUSPENDED ACOUSTICAL CEILINGS WITH A TOTAL WEIGHT OF 50 POUNDS PER ATTACHMENT MAY BE HUNG FROM ROOF DECK. THE HANGERS SHALL BE STAGGERED TO DISTRIBUTE THE LOADS OVER MULTIPLE DECK FLUTES.

4. CONDUITS ARE PERMITTED IN COMPOSITE DECK SLABS SUBJECT TO LOCAL CODE REQUIREMENTS AND FIRE RATING CONSIDERATIONS. CONDUITS OTHER THAN ELECTRICAL OR COMMUNICATION CONDUITS SHALL NOT BE PERMITTED. ALL CONDUIT PLACED WITHIN THE SLAB SHALL BE MADE OUT

4.1. WHEN CONDUITS ARE INSTALLED IN THE SLAB. THE DIAMETER SHALL BE THE LESSER OF 1-INCH OR 1/3 TIMES THE DEPTH OF CONCRETE OVER METAL DECK

4.2. NO CROSSOVER OF CONDUITS SHALL OCCUR.

4.3. CONDUIT SHALL BE SPACED A MINIMUM OF 18-INCHES APART 4.3.1. CONDUITS MAY BE SPACED CLOSER TOGETHER AT ELECTRICAL JUNCTION BOXES / GUTTER BOXES / BLOCKS. IN SUCH CASES, THE CONDUIT BOX SHALL BE LOCATED ADJACENT TO A STRUCTURAL SUPPORT SUCH AS A BEAM OR WALL. THE CONDUITS SHALL SPLAY OUT IN THE DECK TO A MINIMUM OF 18" APART AS QUICKLY AS POSSIBLE. BLOCKS OF CONDUITS SHALL BE SPACED AT A MINIMUM OF 6'-0" APART AND SHALL NOT EXCEED 6 CONDUITS IN

4.4. THE MINIMUM CONCRETE COVER OF 1" AND IT SHALL BE PLACED ABOVE THE TOP FLUTE OF THE DECK. CLEARANCE BETWEEN THE CONDUIT AND THE METAL DECK SHALL BE 1 INCH.

5. ALL DECK SUPPORTING MEMBERS SHALL BE DRY BEFORE WELDING.

CLINCH SEAMS BEFORE WELDING INTERLOCKING SEAMS.

WHERE DECK IS TO RECEIVE SPRAYED-ON FIRE PROOFING. PAINTED DECK SHALL BE COATED WITH SPECIAL PAINT THAT WILL ALLOW THE SPRAYED-ON FIRE PROOFING TO ADHERE TO THE PAINTED

8. STEEL ROOF DECK (UNLESS NOTED OTHERWISE) 8.1. STEEL ROOF DECK SHALL BE 1.1/2" DEEP X 22 GAGE MINIMUM PAINTED STEEL (GALVANIZED (G60)), TYPE 'B' WIDE RIB DECK WITH INTERLOCKING SIDE SEAMS WITH THE FOLLOWING PROPERTIES. 22 GA MINIMUM S (IN^3/FT) =

22 GA MINIMUM I (IN^4/FT) =

8.2. MINIMUM DIAPHRAGM SHEAR VALUES SHALL BE 825 (PLF) FOR A 7'-6" DECK SPAN. 8.3. MAXIMUM FLEXIBILITY FACTOR SHALL BE 13.9 (IN/(LB*10⁶)) FOR A 7'-6" DECK SPAN. 8.4. YIELD STRESS OF THE 22 GAGE STEEL DECK SHALL BE LIMITED TO A MAXIMUM OF 50 KSI.

8.5. SEE TYPICAL DETAILS FOR SUPPORT OF DECK AT OPENINGS. WELD STEEL ROOF DECK TO

SUPPORTING FRAMING MEMBERS WITH 3/4" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACINGS (CLOSER SPACINGS MAY BE USED TO DEVELOP MIN SHEAR VALUES): 8.5.1. 6" O.C. TO ALL SUPPORTS PERPENDICULAR TO DECK CORRUGATIONS (7 WELDS PER 36"

8.5.2. 6" O.C. TO THE FOLLOWING SUPPORTS PARALLEL TO DECK CORRUGATIONS: ALL PERIMETER SUPPORTS.

8.5.3. 12" O.C. TO ALL OTHER SUPPORTS PARALLEL TO DECK CORRUGATIONS. 8.5.4. ATTACH INTERLOCKING SEAMS WITH VERCO PUNCHLOCK II SYSTEM @ 12" O.C. MIN. BETWEEN ADJACENT PIECES OF DECKING. CRIMP SIDES BEFORE WELDING. CLOSER SPACING MAY BE USED TO DEVELOP MIN SHEAR VALUES. A STANDARD BUTTON PUNCH CAN NOT BE USED.

9. PROVIDE A 2" MIN BEARING AND 4" LAP AT THE SPLICE POINTS OF ALL PIECES OF DECK.

LEGENDS OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT(S)	JST	JOIS
ABV	ABOVE	00.	00.0
ALT	ALTERNATE	k	KIPS (1000 POUNDS
APPROX	APPROXIMATE	KLF	KIPS PER LINEAR FOO
ARCH	ARCHITECT(URAL)	KSF	KIPS PER SQUARE FOO
BF-X	BRACED FRAME	LBS	POUND
BLDG	BUILDING	LLH	LONG LEG HORIZONTA
BLW	BELOW	LLV	LONG LEG VERTICA
BOT	BOTTOM	LSH	LONG SIDE HORIZONTA
BRG	BEARING	LSV	LONG SIDE VERTICA
BTWN	BETWEEN	LVL	LAMINATED VENEER LUMBER
CMU	CONCRETE MASONRY UNIT	MAS	MASONR'
COL	COLUMN	MAX	MAXIMUI
CONC	CONCRETE	MC-X	MASONRY COLUM
CONST	CONSTRUCT(ION)	MCJ	MASONRY CONTROL JOIN
CJ	CONTROL JOINT	MECH	MECHANICA
CRW-X	CONCRETE RETAINING WALL	MF	MOMENT FRAM
CP-X	CONCRETE PIER	MIN	NINIMI
CW-X	CONCRETE WALL	MISC	MISCELLANEOU
		ML-X	MASONRY LINTE
D	DEPTH	MP-X	MASONRY PIEI
db	BAR DIAMETER	MW-X	MASONRY WAL
DBA	DEFORMED BAR ANCHOR		
DBE	DECK BEARING ELEVATION	(N)	NEV
DBL	DOUBLE	NTS	NOT TO SCAL
DET	DETAIL	0.0	ON OFNITE
DIA	DIAMETER	O.C.	ON CENTEI
DIM	DIMENSION	O.F.	OUTSIDE FAC
DIST	DISTANCE	OPP OWSJ	OPPOSIT OPEN WEB STEEL JOIS
(E)	EXISTING	OVVSJ	OPEN WEB STEEL JOIS
(E) EA	EACH	PAF	POWDER-ACTUATED FASTENEI
E.A.	EACH FACE	PAR	PARALLE
E.J.	EXPANSION JOINT	PCF	POUNDS PER CUBIC FOO
ELEC	ELECTRICAL	PERP	PERPENDICULAI
ELEV	ELEVATION	PL	PLAT
E.O.D.	EDGE OF DECK	PLF	POUNDS PER LINEAR FOO
E.O.S.	EDGE OF SLAB	PNL	PANE
EQUIP	EQUIPMENT	PSF	POUNDS PER SQUARE FOO
EQ	EQUAL	PSI	POUNDS PER SQUARE INC
E.W.	EACH WAY	PT	POST TENSIO
EX	EXISTING	#	POUNDS (LBS
EXT	EXTERIOR		
		REINF	REINFORCEMEN
FC-X	CONTINUOUS FOOTING	REQD	REQUIRE
F.D.	FLOOR DRAIN	R.D.	ROOF DRAIL
FDN	FOUNDATION	RTU	ROOF TOP UNI
FFE	FINISHED FLOOR ELEVATION	CDD	OTEEL DAGE DLAT
FS-X	SPOT FOOTING	SBP SC-X	STEEL BASE PLAT STEEL COLUM
FT FTG	FOOT FOOTING	SCP	STEEL COLUMI STEEL CAP PLAT
FTS-X	THICKENED SLAB FOOTING	SIM	SILLE OAF FLAT
Γ1 3- Λ	THICKEINED SLAB FOOTING	STR	STRUCTURA
GA	GAUGE	STRUCT	STRUCTURA
GALV	GALVANIZED	STS	SELF TAPPING SCREW
GLB	GLU-LAM BEAM	010	OLE: ITH ING CONCENT
GSN	GENERAL STRUCTURAL NOTES	T&B	TOP AND BOTTO
•••		TOC	TOP OF CONCRET
HORIZ	HORIZONTAL	TOF	TOP OF FOOTING
HSA	HEADED STUD ANCHOR	TOS	TOP OF SLA
HT	HEIGHT	TOW	TOP OF WAL
		TYP	TYPICA
ICC	INTERNATIONAL CODE COUNCIL		
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTES OTHERWIS
I.F.	INSIDE FACE		
IN	INCH	VERT	VERTICA
INT	INTERIOR	14//	
IRC	INTERNATIONAL RESIDENTIAL CODE	W/	WIT
וחיי	IOIOT DE ADIMO EL EVATION	WT	WALL THICKNES WELDED WIRE FABRI
J.B.E.	JOIST BEARING ELEVATION	WWF	WELDED WIKE FABRI

DESIGN CRITERIA

GOVERNING BUILDING CODE(S) 2018 INTERNATIONAL BUILDING CODE RISK CATEGORY SEISMIC LOADS SEISMIC IMPORTANCE FACTOR, le

2.1. SITE SPECIFIC RESPONSE ANALYSIS (SRA) BY: GSH GEOTECHNICAL REPORT PROJECT NUMBER 0990-025-13 NOTE: SEISMIC VALUES BASED ON CURRENT SEISMIC DESIGN VALUES BASED ON THE 2018 IBC/ASCE 7-16

2.2. REPORT DATE 2.3. DESIGN SPECTRAL ACCELERATION

2.6. SOIL SITE COEFFICIENTS

2.8. BASIC SFRS SHEARWALLS RESPONSE MOD. COEFFICIENT

2.11. BASE SHEAR 2.12. ANALYSIS PROCEDURE

> 3.1. WIND VELOCITY (3 SECOND GUST) 3.2. EXPOSURE TYPE

3.4. TOPOGRAPHIC FACTOR, K_{ZT}

109 MPH (STRENGTH) 85 MPH (ALLOWABLE ($I_w = 1.0$)) 3.3. INTERNAL PRESSURE COEFF. GC_{ni} +/- 0.18

1.0

SEISMIC DESIGN CATEGORY

10/23/2013 $S_{DS} = 0.86$

 $S_{D1} = 0.45$ 2.4. SOIL SITE CLASS D (DEFAULT) 2.5. MAPPED SPECTRAL ACCELERATION $S_s = 1.093$ $S_1 = 0.391$

 $F_a = 1.20$ $F_v = 1.91$ 2.7. 5% DAMPED ACCELERATION $S_{DS} = 2/3 * F_a * S_S = 0.874$ $S_{D1} = 2/3 * F_v * S_1 = 0.498$ SPECIAL REINFORCE. MASONRY

SYSTEM OVER-STRENGTH FACTOR Ω = 2.5 DEFLECTION AMPLIFICATION FACTOR $C_d = 3.5$ 2.9. SEISMIC RESPONSE COEFFICIENT $C_s = S_{DS} * I_e / R$ $C_s = S_{D1} * I_e / (R * T)$ DEAD LOADS OF STRUCTURE

 $V = C_s * W = 0.26 * W (STRENGTH)$ EQUIVALENT LATERAL FORCE WIND LOADS

11/28/2022 12:52:49 PM

NOT FOR CONSTRUCTION

DATE: 11/16/2022 PROJECT: AW-031.01

MANAGER: RY REVISIONS # | DATE | DESCRIPTION

GENERAL NOTES

SHEET NUMBER:

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITTING AUTHORITIES. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

CONCRETE CONSTRUCTION (170)5.(3
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ТҮРЕ	INSP	PCIAL PECTION QUENCY	REMARKS	REF. STANDARD
	CONT.	PERIODIC	1	
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		х	VERIFY REINFORCING IS OF SPECIFIED TYPE, GRADE, AND SIZE; REQUIRED EMBEDMENT LENGTHS, LAP LENGTHS, AND SPLICES ARE ACHIEVED AND STAGGERED, OFFSET OR SPACED AS INDICATED; REINFORCEMENT IS FREE OF ICE, MUD, OIL, EXCESSIVE RUST OR OTHER DELETERIOUS MATERIAL; REINFORCING SPLICES ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS OR THE MANUFACTURES RECOMMENDATIONS (FOR MECHANICAL SPLICES); TIES, HOOKS, BENDS, AND SUPPLEMENTAL REINFORCING IS PROPERLY PLACED AND COVER TOLERANCES ARE ACHIEVED.	1BC1908.4 ACI 318 CH 20, 25.2, 25.3 26.6.1-26.6.3
REINFORCING BAR WELDING:				
VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$ "		x x	VERIFY MILL TEST REPORT OF MATERIAL PROPERTIES FOR A706 BAR THAT DEMONSTRATE CONFORMANCE TO THE REQUIREMENTS OF AWS D1.4	AWS D1.4 ACI 318: 26.6.4
INSPECT ALL OTHER WELDS	Х			
INSPECT ANCHORS CAST IN CONCRETE		Х	VERIFY PLACEMENT PRIOR TO AND DURING CONCRETE PLACEMENT. INSPECTION SHALL OCCUR FOR CONDITIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, BRACED FRAMES, MOMENT FRAMES, TENSION HOLDDOWNS, CANTILEVERED COLUMNS.	ACI 318: 17.8.2
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. MECHANICAL ANCHORS AND	Х		INSPECTOR SHALL BE QUALIFIED AND SHALL VERIFY EMBEDMENT DEPTHS AND INSTALLATION PROCEDURES CONFORM TO MANUFACTURERS RECOMMENDATIONS VERIFY EMBEDMENT DEPTHS AND INSTALLATION	ACI 318: 17.8.2.4
ADHESIVE ANCHORS NOT DEFINED ABOVE		Х	PROCEDURES CONFORM TO MANUFACTURERS RECOMMENDATIONS	ACI 318: 17.8.2
VERIFY USE OF REQUIRED DESIGN MIX		Х	VERIFY MIX DESIGN MEETS SPECIFIED STRENGTH AND EXPOSURE CLASS REQUIREMENTS	IBC 1904.1, 1904.2, 1908.2, 1908.3 ACI 318: CH. 19, 26.4.3, 26.4.4
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х		FABRICATE SPECIMENS IN ACCORDANCE WITH REFERENCED STANDARDS	IBC 1908.10 ASTM C172, ASTM C31, ACI 318: 26.5 26.12
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х		VERIFY DEBRIS AND ICE IS REMOVED FROM SPACES TO BE OCCUPIED BY CONCRETE; PLACEMENT IS AT A RATE TO PROVIDE SUFFICIENT WORK TIMES AND TO AVOID SEGREGATION OR LOSS OF MATERIAL. VERIFY SUITABLE MEANS TO ACHIEVE PROPER CONSOLIDATION ARE USED.	IBC 1908.6, 1908.7, 1908. ACI 318: 26.5
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х	VERIFY CONCRETE MAINTAIN A TEMPERATURE OF AT LEAST 50°F FOR THE FIRST 7 DAYS UNLESS HIGH-EARLY-STRENGTH OR ACCELERATED CURING IS USED; FORMS, FILLERS, AND GROUND IS FREE FROM FROST AND ICE AND CONCRETE MATERIALS ARE PROTECTED FROM FREEZING AT TIME OF PLACEMENT AND CURING; ADEQUATE PROCEDURES ARE TAKEN TO LIMIT TEMPERATURES AND EVAPORATION DURING HOT WEATHER CONCRETE PLACEMENT.	IBC 1908.9 ACI 318: 26.5.3-26.5.5
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		х	FORMWORK SHALL NOT BE REMOVED FROM BEAMS OR SLABS UNTIL AN ESTIMATE OF IN-PLACE CONCRETE STRENGTH HAS BEEN VERIFIED BY TESTING OR OTHER PROCEDURES	ACI 318: 26.11.2
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	Х	VERIFY FORMWORK IS BRACED OR TIED TOGETHER TO MAINTAIN POSITION AND SHAPE AND IS SUFFICIENTLY TIGHT TO INHIBIT LEAKAGE OF PASTE OR MORTAR	ACI 318: 26.11.1.2(b)
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MASONRY CONSTRUCTION - LEVEL B RISK CATEGORY I, II, III - (1705.4)

VERIFICATION OF F'M IN ACCORDANCE WITH ARTICLE 1.4B PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SQ.F. DURING VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH ARTICLE 1.5 B.1.B.3 FOR SELF-CONSOLIDATING GROUT

MINIMUM SPECIAL INSPECTIONS									
MINIMUM SPECI	IAL INSPE	CTIONS	_	,					
ТҮРЕ	INSP	ECIAL ECTION (UENCY	REMARKS	TMS 402/602					
	CONT.	PERIODIC		REFERENCE					
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		Х	INCLUDING MIX DESIGNS AND TEST RESULTS, MATERIAL CERTIFICATES, AND CONSTRUCTION PROCEDURES	ART. 1.5					
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:									
PROPORTIONS OF SITE-PREPARED MORTAR		Х		ART. 2.1, 2.6 A					
CONSTRUCTION OF MORTAR JOINTS		Х		ART. 3.3 B					
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		Х		ART. 2.4 B, 2.4 H					
LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		Х		ART. 3.4, 3.6 A					
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:									
GROUT SPACE		Х		ART. 3.2 D, 3.2 F					
GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		Х		Sec. 6.1 ART. 2.4, 3.4					
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		Х		Sec. 6.1, 6.2.1, 6.2.6, 6.2.7 ART. 3.2 E, 3.4, 3.6 A					
PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		Х		ART. 2.6 B, 2.4 G.1.b					
CONSTRUCTION OF MORTAR JOINTS		Х		ART. 3.3 B					
VERIFY DURING CONSTRUCTION:									
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		Х		ART. 3.3 F					
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		Х		SEC. 1.2.1(E), 6.1.4.3, 6.2.1					
WELDING OF REINFORCEMENT	х			SEC. 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)					
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		х		ART. 1.8 C, 1.8 D					
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	х			ART. 3.5, 3.6 C					
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4					

STEEL CONSTRUCTION (1705.2)

REMARKS

CONNECTION; ERECTION OF STEEL FRAME AND DETAILS SUCH AS

RODS OR EMBEDED ITEMS, AND THE EXTENT OF EMBEDMENT INTO

VERIFY THE DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR

VERIFY PROPER APPLICATION OF JOINT DETAILS AT EACH

BRACES, STIFFENERS AND MEMBER LOCATIONS

INSPECTION

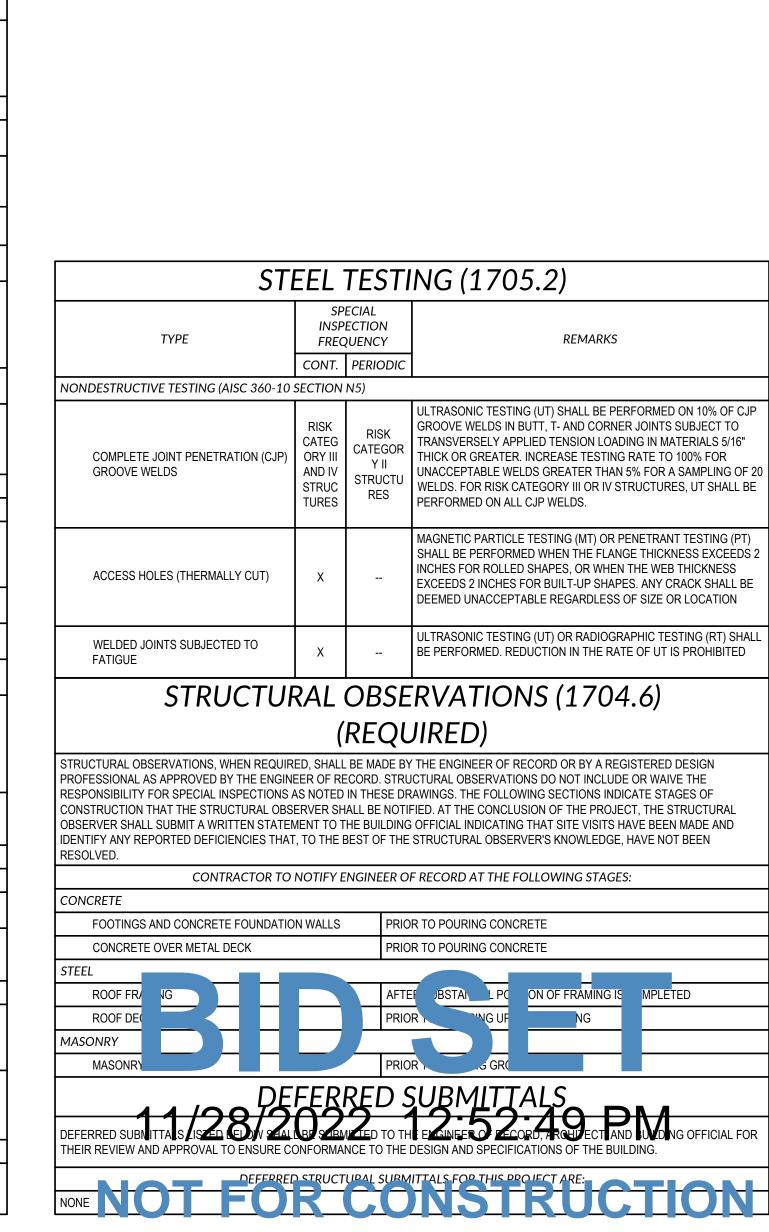
FREQUENCY CONT, PERIODIC

			CONT.	PERIODIC		
INSPECTION TASKS PRIOR TO BOLTING (A			.6-1 AND	AISC 341-10	O TABLE J7-1)	
MANUFACTURER'S CERTIFICATIONS AV FASTENER MATERIALS	AILABLE F	UK		Х		
FASTENERS MARKED IN ACCORDANCE REQUIREMENTS	WITH AST	M		Х		
PROPER FASTENERS SELECTED FOR T	HE JOINT I	DETAIL		Х	INCLUDING GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	
PROPER BOLTING PROCEDURE SELECT	TED FOR J	OINT DETAIL		Х		
CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS				Х	INCLUDING APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED	
PRE-INSTALLATION VERIFICATION TESTING			Х		BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED (NOT REQUIRED FOR SNUG-TIGHT JOINTS - AISC 360-10 SECTION N5.6(1))	
PROPER STORAGE PROVIDED				Х	FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	
INSPECTION TASKS DURING BOLTING (AIS	C 360-10	TABLE N5.6	-2 AND A	ISC 341-10	·	
FASTENER ASSEMBLIES, OF SUITABLE (Х	VERIFY FASTENERS PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	
JOINT BROUGHT TO THE SNUG-TIGHT O THE PRETENSIONING OPERATION	CONDITION	I PRIOR TO		Х		
FASTENER COMPONENT NOT TURNED I PREVENTED FROM ROTATING	BY THE WF	RENCH		Х		
FASTENERS ARE PRETENSIONED IN AC RCSC SPECIFICATION, PROGRESSING S FROM THE MOST RIGID POINT TOWARD	SYSTEMAT THE FREE	ICALLY E EDGES		Х	NOT REQUIRED FOR SNUG-TIGHT JOINTS - AISC 360-10 SECTION N5.6(1). NOT REQUIRED FOR PRETENSIONED JOINTS USING THE TURN-OF-THE NUT METHOD WITH MATCHMARKING TECHNIQUES, DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD	
INSPECTION TASKS AFTER BOLTING (AISC DOCUMENT ACCEPTANCE OR REJECTION			AND AIS	C 341-10 TA	ABLE J7-3)	
CONNECTIONS			Х			
STRUC			ELD	ING (1705.2)	
TYPE	INSP	ECIAL ECTION			REMARKS	
TYPE		QUENCY PERIODIC			REMARKS	
INSPECTION TASKS PRIOR TO WELDING (A	ISC 360-:	10 TABLE N	5.4-1 AND) AISC 341-1	0 TABLE J6-1)	
WELDING PROCEDURE SPECIFICATIONS AVAILABLE	Х					
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Х					
MATERIAL IDENTIFICATION (TYPE/GRADE)		Х				
WELDER IDENTIFICATION SYSTEM		Х	VERIFY THERE IS A SYSTEM IN PLACE TO IDENTIFY THE WELDER WHO HAS WELDED A JOINT OR MEMBER.			
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		Х	VERIFY: JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)			
CONFIGURATION AND FINISH OF ACCESS HOLES		Х				
FIT-UP OF FILLET WELDS		Х		ION ÔF STEEI	ENT, GAPS AT ROOT), CLEANLINESS L SURFACES), TACKING (TACK WELD QUALITY	
CHECK WELDING EQUIPMENT		Х				
INSPECTION TASKS DURING WELDING (AIS	SC 360-10	TABLE N5.4	1		TABLE J6-2) STRUCTION THAT THE TEMPORARY	
USE OF QUALIFIED WELDERS		Х	INSTALLA	ATION RESTR	STRUCTION THAT THE TEMPORARY AINT/BRACING IS INSTALLED IN ACCORDANCE TRUSS SUBMITTAL PACKAGE	
CONTROL AND HANDLING OF WELDING CONSUMABLES		Х	INCLUDIN	NG PACKAGIN	IG AND EXPOSURE CONTROLS	
NO WELDING OVER CRACKED TACK WELDS		Х		CRACKED TAG JING WELDING	CK WELDS ARE REMOVED PRIOR TO G	
ENVIRONMENTAL CONDITIONS		Х	TEMPER		ED WITHIN LIMITS AND PRECIPITATION AND	
WELDING PROCEDURE SPECIFICATIONS FOLLOWED		Х	WELDING APPLIED PROPER AVOIDED	G MATERIALS , INTERPASS	IG EQUIPMENT, TRAVEL SPEED, SELECTED , SHIELDING GAS TYPE/FLOW RATE, PREHEAT TEMPERATURE MAINTAINED (MIN./MAX.), V, H, OH), INTERMIX OF FILLER METALS PROVED	
WELDING TECHNIQUES		Х			L CLEANING, EACH PASS WITHIN PROFILE ASS MEETS QUALITY REQUIREMENTS	
INSPECTION TASKS AFTER WELDING (AISC		1	3 AND AI	SC 341-10 T	ABLE J6-3)	
WELDS CLEANED SIZE, LENGTH AND LOCATION OF		Х				
WELDS	Х		INCLLION	NG CBACK DE	ROHIBITION, WELD/BASE-METAL FUSION,	
WELDS MEET VISUAL ACCEPTANCE CRITERIA	Х		CRATER		TION, WELD PROFILES, WELD SIZE,	
ARC STRIKES	Х		When w	EI DING OF D	OUBLER DLATES CONTINUITY DLATES OF	
K-AREA	Х		STIFFEN	ERS HAS BEE	OUBLER PLATES, CONTINUITY PLATES OR IN PERFORMED IN THE K-AREA, VISUALLY AREA FOR CRACKS WITHIN 3 INCHES OF THE	
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	Х					
REPAIR ACTIVITIES	Х					
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBERS	Х					

STRUCTURAL HIGH-STRENGTH BOLTING (1705.2)

SPECIAL INSPECTION

ТҮРЕ			INSP	PERIODIC	REMARKS		
PECTION TASKS PRIOR TO BOLTING (AI	SC 360-1	0 TABLE N5.	6-1 AND	AISC 341-10	TABLE J7-1)		
MANUFACTURER'S CERTIFICATIONS AVA FASTENER MATERIALS FASTENERS MARKED IN ACCORDANCE				X			
REQUIREMENTS				Х	INCLUDING GRADE, TYPE, BOLT LENGTH IF		
PROPER FASTENERS SELECTED FOR TH	HE JOINT [DETAIL		Х	THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		
PROPER BOLTING PROCEDURE SELECT	ED FOR J	OINT DETAIL		Х	INCLUDING APPROPRIATE FAYING SURFACE		
CONNECTING ELEMENTS MEET APPLICA	ABLE REQI	UIREMENTS		Х	CONDITION AND HOLE PREPARATION, IF SPECIFIED BY INSTALLATION PERSONNEL OBSERVED		
PRE-INSTALLATION VERIFICATION TEST	ING		Х		AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED (NOT REQUIRED FOR SNUG-TIGHT JOINTS - AISC 360-10 SECTION N5.6(1))		
PROPER STORAGE PROVIDED				Х	FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		
PECTION TASKS DURING BOLTING (AIS	C 360-10	TABLE N5.6	-2 AND A	ISC 341-10 	·		
FASTENER ASSEMBLIES, OF SUITABLE (Х	VERIFY FASTENERS PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		
JOINT BROUGHT TO THE SNUG-TIGHT C THE PRETENSIONING OPERATION	ONDITION	PRIOR TO		Х			
FASTENER COMPONENT NOT TURNED E	BY THE WF	RENCH		Х			
PREVENTED FROM ROTATING					NOT REQUIRED FOR SNUG-TIGHT JOINTS - AISC 360-10 SECTION N5.6(1). NOT REQUIRED		
FASTENERS ARE PRETENSIONED IN ACC RCSC SPECIFICATION, PROGRESSING S FROM THE MOST RIGID POINT TOWARD	YSTEMAT	ICALLY		Х	FOR PRETENSIONED JOINTS USING THE TURN-OF-THE NUT METHOD WITH MATCHMARKING TECHNIQUES, DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL		
SPECTION TASKS AFTER BOLTING (AISC	360-10 T	ARI F N5 6-3	AND AIS	<u> </u> C 341-10 T/	BOLT METHOD ARI F 17-3)		
DOCUMENT ACCEPTANCE OR REJECTION			X		1012 37 07		
CTDLIC	TUD	Λ			1705 2)		
STRUC			ELD	ING (.	1705.2)		
TYPE	INSP FREC	ECIAL ECTION QUENCY PERIODIC			REMARKS		
SPECTION TASKS PRIOR TO WELDING (A	ļ		.4-1 AND) AISC 341-1	0 TABLE J6-1)		
WELDING PROCEDURE	Х				·		
SPECIFICATIONS AVAILABLE MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	X						
AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE)		Х					
WELDER IDENTIFICATION SYSTEM		Х			/STEM IN PLACE TO IDENTIFY THE WELDER JOINT OR MEMBER.	C-T	
			VERIFY:	_		ST	ĿĿ
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		Х	ROOT FA	CE, BEVEL), (ES), TACKING	DIMENSIONS (ALIGNMENT, ROOT OPENING, CLEANLINESS (CONDITION OF STEEL (TACK WELD QUALITY AND LOCATION), IT (IF APPLICABLE)	ТҮРЕ	со
CONFIGURATION AND FINISH OF ACCESS HOLES		Х				NONDESTRUCTIVE TESTING (AISC 360-10	
FIT-UP OF FILLET WELDS		Х		ION OF STEEL	ENT, GAPS AT ROOT), CLEANLINESS L SURFACES), TACKING (TACK WELD QUALITY	COMPLETE JOINT PENETRATION (CJP) GROOVE WELDS	RII CA ⁻ OR ANI
CHECK WELDING EQUIPMENT		Х				GROOVE WELDS	STF
PECTION TASKS DURING WELDING (AIS	C 360-10	TABLE N5.4			·		TUF
USE OF QUALIFIED WELDERS		Х	INSTALL	ATION RESTR	STRUCTION THAT THE TEMPORARY AINT/BRACING IS INSTALLED IN ACCORDANCE TRUSS SUBMITTAL PACKAGE	ACCESS HOLES (THERMALLY CUT)	
CONTROL AND HANDLING OF		Х	INCLUDI	NG PACKAGIN	IG AND EXPOSURE CONTROLS	, , , , , , , , , , , , , , , , , , , ,	′
WELDING CONSUMABLES NO WELDING OVER CRACKED TACK		X	VERIFY (CRACKED TAG	CK WELDS ARE REMOVED PRIOR TO		+
WELDS	-	X		JING WELDING	ED WITHIN LIMITS AND PRECIPITATION AND	WELDED JOINTS SUBJECTED TO FATIGUE)
ENVIRONMENTAL CONDITIONS		Х	TEMPER		ED WITHIN LIMITS AND FRECIFITATION AND	STRUCTUI	⊥ RΔ
WELDING PROCEDURE SPECIFICATIONS FOLLOWED		Х	WELDING APPLIED PROPER	G MATERIALS , INTERPASS	IG EQUIPMENT, TRAVEL SPEED, SELECTED, SHIELDING GAS TYPE/FLOW RATE, PREHEAT TEMPERATURE MAINTAINED (MIN./MAX.), V, H, OH), INTERMIX OF FILLER METALS PROVED	STRUCTURAL OBSERVATIONS, WHEN REQUIR PROFESSIONAL AS APPROVED BY THE ENGIN	RED, S
WELDING TECHNIQUES		Х	VERIFY: INTERPA	SS AND FINA	L CLEANING, EACH PASS WITHIN PROFILE ASS MEETS QUALITY REQUIREMENTS	RESPONSIBILITY FOR SPECIAL INSPECTIONS CONSTRUCTION THAT THE STRUCTURAL OBS OBSERVER SHALL SUBMIT A WRITTEN STATE IDENTIFY ANY REPORTED DEFICIENCIES THA	SERVE MENT
PECTION TASKS AFTER WELDING (AISC	360-10	TABLE N5.4-	3 AND AI	SC 341-10 T	ABLE J6-3)	RESOLVED.	,
WELDS CLEANED		Х				CONTRACTOR TO	NOT
SIZE, LENGTH AND LOCATION OF WELDS	Х					CONCRETE FOOTINGS AND CONCRETE FOUNDATION	N W
WELDS MEET VISUAL ACCEPTANCE CRITERIA	Х		CRATER		OHIBITION, WELD/BASE-METAL FUSION, ION, WELD PROFILES, WELD SIZE, Y	CONCRETE OVER METAL DECK STEEL	
ARC STRIKES	Х					ROOF FR/	
K-AREA	Х		STIFFEN	ERS HAS BEE	OUBLER PLATES, CONTINUITY PLATES OR N PERFORMED IN THE K-AREA, VISUALLY AREA FOR CRACKS WITHIN 3 INCHES OF THE	ROOF DE(MASONRY MASONRY	
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	Х					DEFERRED SUBNITTALS IS ED SAL	FE
REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBERS	X					THEIR REVIEW AND APPROVAL TO ENSURE C	









DATE: 11/16/2022 PROJECT: AW-031.01 MANAGER: RY

REVISIONS

DATE DESCRIPTION

SPECIAL INSPECTIONS

SHEET NUMBER:

GENERAL INSPECTION TASKS (AISC 360-10 SECTION N5.7)

COMPLIANCE WITH THE DETAILS

SHOWN ON THE SHOP DRAWINGS

OTHER STEEL SUPPORTING

EMBEDDED ITEMS

PLACEMENT OF ANCHOR RODS AND

BID SET

11/28/2022 12:52:49 PM

ROOF FRAMING PLANOT FOR CONSTRUCTION
SCALE: 1/4" = 1'-0"

SEE DETAILS 8/S501 FOR TYPICAL MASONRY CONTROL JOINTS. REFER TO GENERAL STRUCTURAL NOTES

FOOTING AND FOUNDATION

PLAN

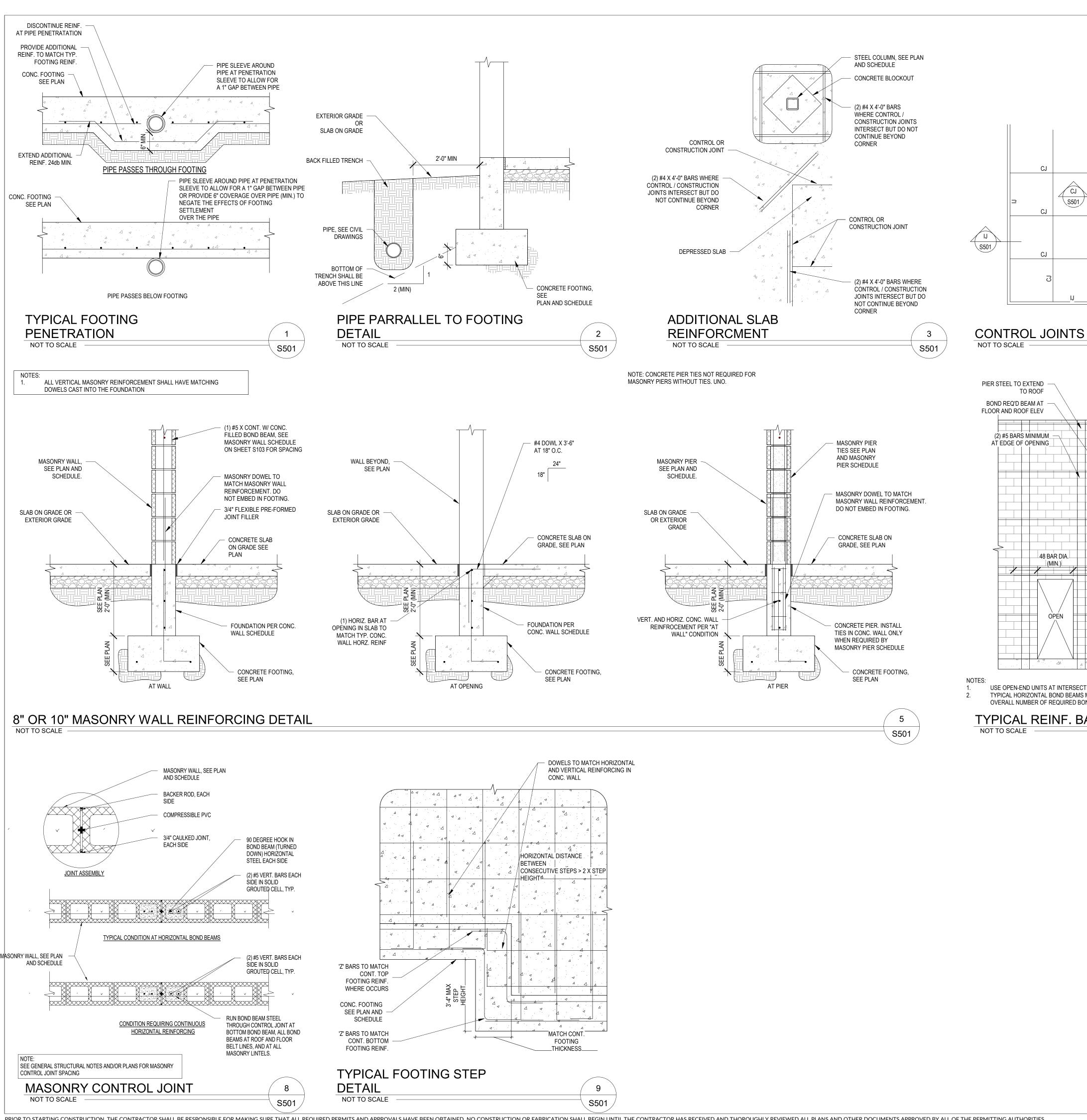
SCALE: 1/4" = 1'-0"

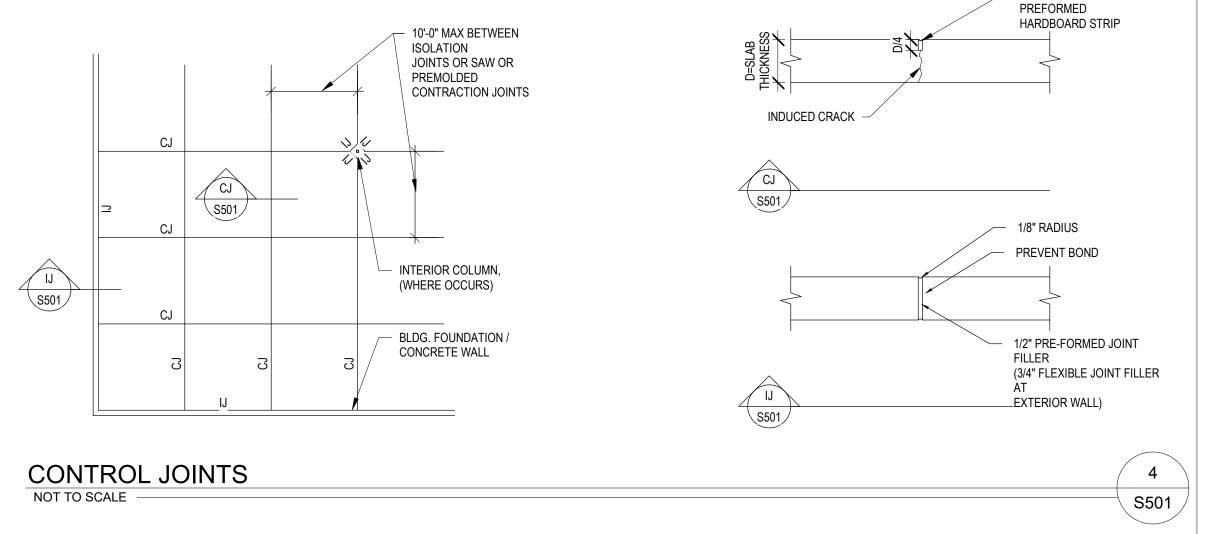
23' - 4"

DATE: _11/16/2022 PROJECT: AW-031.01 MANAGER: RY

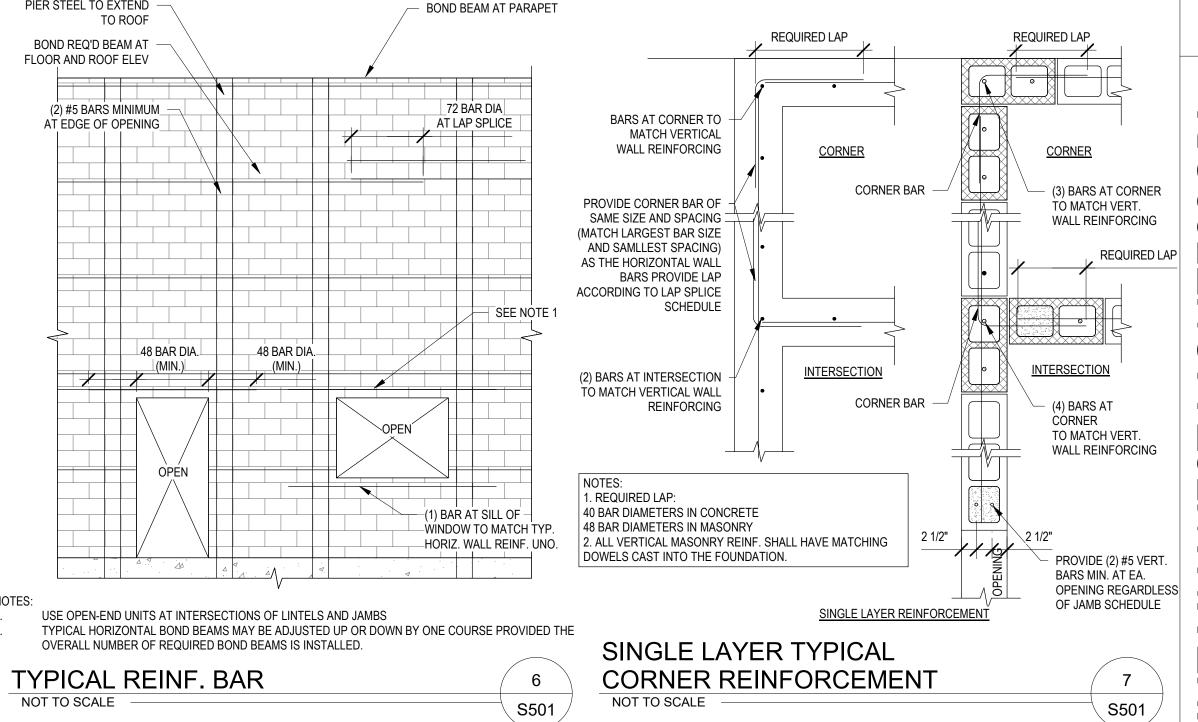
REVISIONS # DATE DESCRIPTION

STRUCTURAL





PLASTIC OR



BID SET

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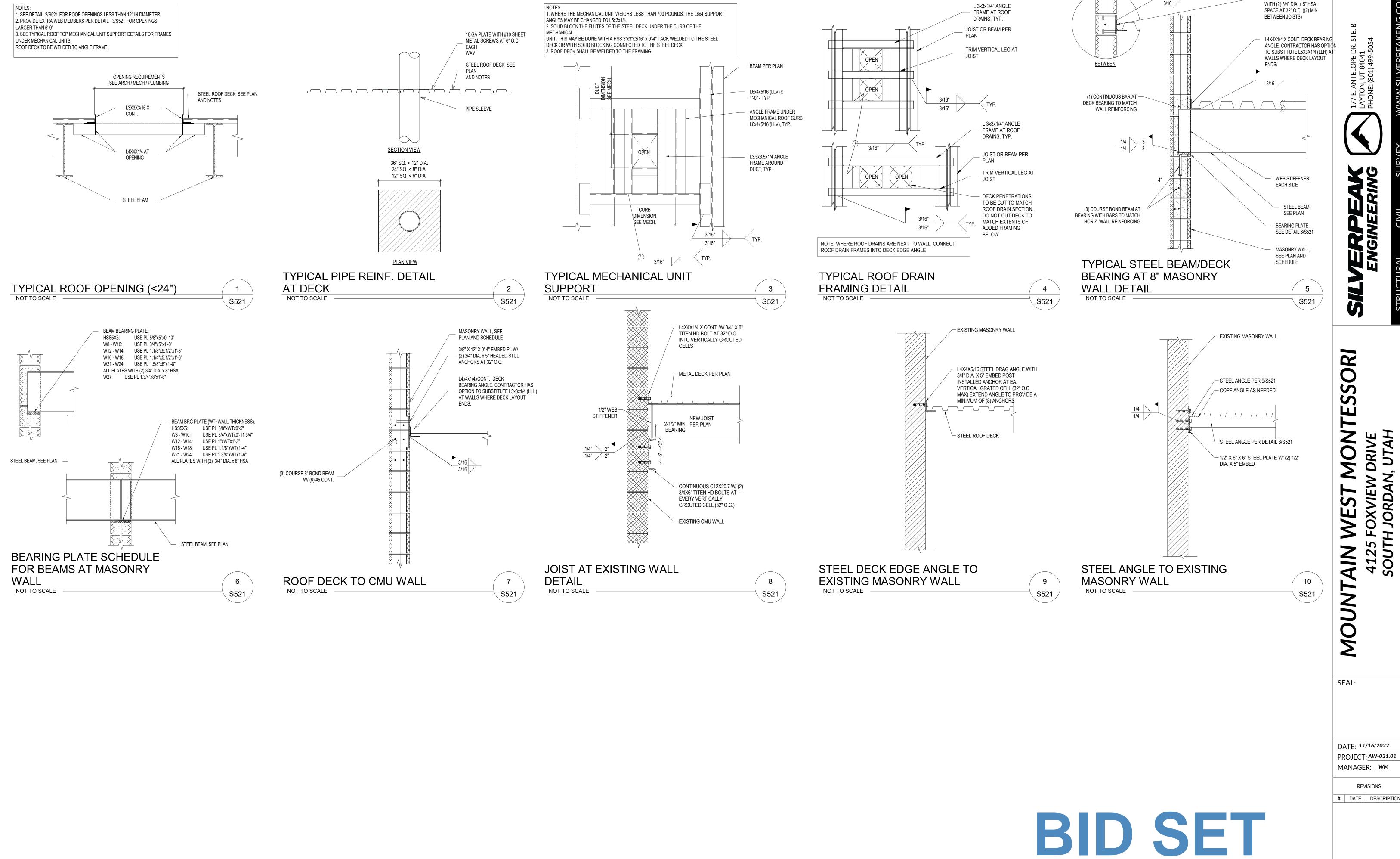
NOT FOR CONSTRUCTION

FOOTING/ **FOUNDATION DETAILS**

DATE: 11/16/2022 PROJECT: AW-031.01 MANAGER: RY

REVISIONS

DATE DESCRIPTION



EMBED PL 3/8" x 8" x 0'-4"

SHEET NUMBER: **S521**

ROOF FRAMING

DETAILS

11/28/2022 12:52:49 PM

NOT FOR CONSTRUCTION

REVISIONS

			REINFO	RCING	
1ARK	THICKNESS	SOLID GROUT	VERTICAL	HORIZONTAL	REMARKS
W-8A	8"	NO	#5 AT 32" O.C.	#5 AT 48" O.C.	

1. COORDINATE WALL FINISHES, MATERIAL, COURSING, ETC. WITH ARCHITECTURAL DRAWINGS.

2. DO NOT SOLID GROUT WALLS UNLESS REQUIRED BY SCHEDULES, NOTES, OR DETAILS.

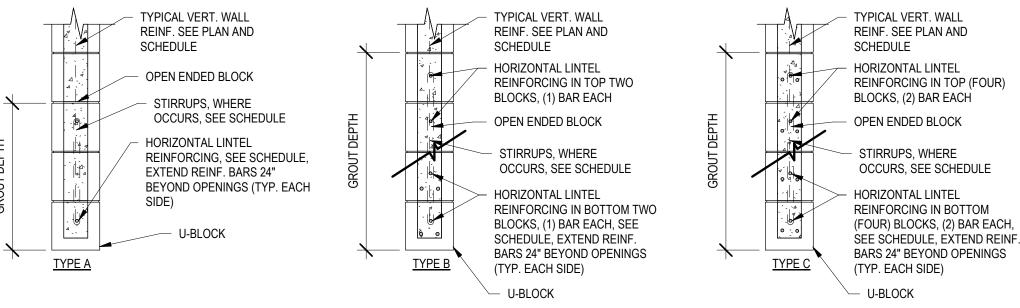
3. ALL BELOW GRADE MASONRY COURSES SHALL BE SOLID GROUTED. 4. SINGLE LAYER VERTICAL REINFORCING TO BE CENTERED IN THE WALL UNO.

5. PROVIDE TWO VERTICAL BARS (MIN.) AT ALL CORNERS AND ENDS OF WALLS.

6. HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS. 7. HORIZONTAL WALL REINFORCING BARS SHALL CONTINUE THROUGH ALL MASNORY LINTELS, WHERE BOTH LINTEL

REINFORCING AND HORIZONTAL WALL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING. 8. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Г									
		MASONRY LINTEL SCHEDULE							
			REIN	IFORCING					
	MARK	GROUT DEPTH	HORIZONTAL	VERTICAL	REMARKS				
	ML-24	24"	(2) #4 T&B	#3 TIES AT 8" O.C.					



CONCRETE WALL SCHEDULE

REINFORCING

HORIZONTAL

HORIZONTAL REINFORCING

VERTICAL REINFORCING

THICKNESS

1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENT

CW-8A

VERTICAL

#4 AT 18" O.C. #4 AT 12" O.C.

TOP AND

BOTTOM

GROUT DEPTH	TYPICAL VERT. WALL REINF. SEE PLAN AND SCHEDULE HORIZONTAL LINTEL REINFORCING IN TOP TWO BLOCKS, (1) BAR EACH OPEN ENDED BLOCK STIRRUPS, WHERE OCCURS, SEE SCHEDULE HORIZONTAL LINTEL REINFORCING IN BOTTOM TWO BLOCKS, (1) BAR EACH, SEE SCHEDULE, EXTEND REINF. BARS 24" BEYOND OPENINGS (TYP. EACH SIDE)	GROUT DEPTH	- TYPICAL VERT. WALL REINF. SEE PLAN AND SCHEDULE - HORIZONTAL LINTEL REINFORCING IN TOP (FOUR) BLOCKS, (2) BAR EACH - OPEN ENDED BLOCK - STIRRUPS, WHERE OCCURS, SEE SCHEDULE - HORIZONTAL LINTEL REINFORCING IN BOTTOM (FOUR) BLOCKS, (2) BAR EACH, SEE SCHEDULE, EXTEND REINF. BARS 24" BEYOND OPENINGS (TYP. EACH SIDE)
	O-DLOOK		O-DLOOK

COMMENTS

CONCRETE REINEORCING BAR LAP SPLICE SCHEDLILE (ACL 318-14)

		F'C = 3,000 l	PSI	F	F'C = 4,000 P F'C = 4,500			F'C = 5,000 PS	51		F'C = 6,000 I	PSI
BAR SIZE	ID &			ID &			ID &			ID &		
	IS CLASS A	IS CLASS B	IDH	IS CLASS A	IS CLASS B	IDH	IS CLASS A	IS CLASS B	IDH	IS CLASS A	IS CLASS B	IDH
#3	16"	21"	8"	14"	18"	7"	13"	17"	6"	12"	16"	6"
#4	22"	29"	11"	19"	25"	9"	17"	22"	8"	15"	20"	8"
#5	27"	35"	14"	24"	31"	12"	21"	27"	11"	19"	25"	10"
#6	33"	43"	16"	28"	36"	14"	25"	33"	13"	23"	30"	12"
#7	48"	62"	19"	42"	55"	17"	37"	48"	15"	34"	44"	14"
#8	55"	72"	22"	47"	61"	19"	42"	55"	17"	39"	51"	15"
#9	62"	81"	25"	53"	69"	21"	48"	62"	19"	44"	57"	17"
#10	68"	88"	27"	59"	77"	24"	53"	69"	21"	48"	62"	19"
#11	75"	75"	30"	65"	85"	26"	58"	75"	23"	53"	69"	21"

3. FOR ALL EPOXY COATED BARS, MULTIPLY ID, IDH, AND IS BY 1.2. THE EPOXY BARS SHALL HAVE A CLEAR SPACING EQUAL TO OR GREATER THAN 6*DB AND CLEAR COVER GREATER THAN 3*DB, OTHERWISE LENGTHS SHALL BE MULTIPLIED BY 1.5

5. CLASS A SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED AT THE SAME LOCATION

6. CLASS B SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF CLASS A ARE MET.

C. BUNDLED BARS GREATER THAN (4) BARS IS NOT PERMITTED

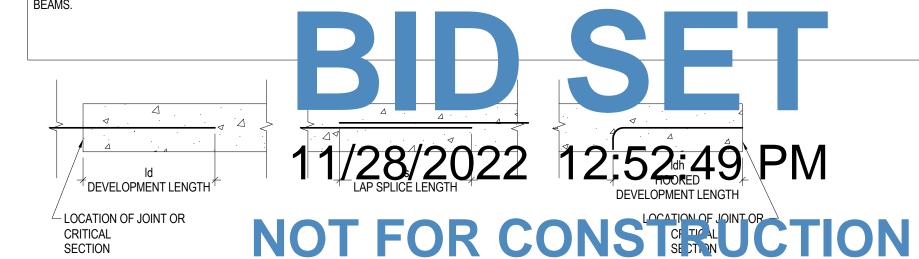
8. TIES AND STIRRUPS SHALL NOT BE SPLICED

9. HOOKED BARS (IDH):

A. FOR HOOKED BARS THAT ARE ENCLOSED IN TIES OR STIRRUPS THAT ARE SPACED NO MORE THAN 3 TIMES THE HOOKED BAR DIAMETER (DB) OVER THE LENGTH OF

C. HOOKED BARS LOCATED AT THE END OF A MEMBER SHALL HAVE SIDE AND TOP/BOTTOM) CVER GREATER THAN 2.1/2 INCHES OR SHALL HAVE TIES OR STIRRUPS AS

11.DB = BAR DIAMETER; ID = DEVELOPMENT LENGTH; IDH = HOOKED BAR DEVELOPMENT LENGTH; IS = BAR LAP SPLICE LENGTH 12. ENGINEER NOTE: INCLUDE NOTE 12 IF YOU WILL HAVE YIELDING OF LONGITUDINAL REINFORCING DUE TO LATERAL DISPLACEMENTS FROM SEISMIC. THIS WILL LIKELY APPLY TO POST-TENSION STRUCTURES. MULTIPLY LENGTHS BY 1.25 FOR VERTICAL REINFORCING OF COLUMNS, PIERS, AND HORIZONTAL REINFORCING OF LINTELS AND

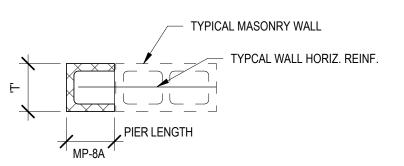


	N 4	A CONDV DI	ED CCLIEDI	пг	
	[V],	ASONRY PI	ER SCHEDU	ILE	
		REINFO	DRCING		
MARK	SIZE	VERTICAL	HORIZONTAL	TYPE	REMARKS
8A	8" X WALL THICKNESS	(2) #4 BARS		SEE SCHEMATIC	
ΓES:				·	
ORIZONTAL V	VALL REINFORCING SHALL BE L	OCATED BETWEEN THI	E VERTICAL BARS FOR	DOUBLE LAYER MASONR	Y PIERS

2. VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF THE WALL (UNO)

3. VERTICAL MASONRY PIER REINFORCING SHALL EXTEND INTO THE FOUNDATION STEM WALL 2'-0". FOR WALLS SHORTER THAN 2'-0" MASONRY PIER REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD HOOK

4. HORIZONTAL REINFORCING OF ADJACENT WALLS SHALL RUN CONTINUOUS THROUGH MASONRY PIERS 5. WHERE NOTED, TIES SHALL BE REQUIRED FROM 16" BELOW THE BOTTOM OF THE ADJACENT OPENING TO 16" ABOVE THE TOP OF THE ADJACENT OPENING. TIES NEED NOT BE ADDED TO THE CONCRETE FOUNDATION WALL.



CONCRETE FOOTING SCHEDULE REINFORCING CROSSWISE REINFORCING LENGTHWISE THICK NO. SIZE LENGTH SPACING NO. SIZE # LENGTH SPACING REMARKS WIDTH LENGTH 2'-0" CONT. 12" -- NONE REQ'D -- 2 4 CONT. EVEN

1. PLACE ALL FOOTINGS REINFORCING 3" FROM BOTTOM OF FOOTING WITH 3" CLEAR ON SIDES UNLESS NOTED OTHERWISE 2. FOOTINGS MUST BEAR ON COMPACTED STRUCTURAL FILL AS INDICATED IN THE GEOTECHNICAL REPORT.: 33

CONCRETE REINFORCING DAR LAP SPLICE SCHEDULE (ACI 310-14)

		F'C = 3,000	PSI	F	F'C = 4,000 P F'C = 4,500			F'C = 5,000 I	PSI		F'C = 6,000 I	PSI
BAR SIZE	ID &			ID &			ID &			ID &		
	IS CLASS A	IS CLASS B	IDH	IS CLASS A	IS CLASS B	IDH	IS CLASS A	IS CLASS B	IDH	IS CLASS A	IS CLASS B	IDH
#3	16"	21"	8"	14"	18"	7"	13"	17"	6"	12"	16"	6"
#4	22"	29"	11"	19"	25"	9"	17"	22"	8"	15"	20"	8"
#5	27"	35"	14"	24"	31"	12"	21"	27"	11"	19"	25"	10"
#6	33"	43"	16"	28"	36"	14"	25"	33"	13"	23"	30"	12"
#7	48"	62"	19"	42"	55"	17"	37"	48"	15"	34"	44"	14"
#8	55"	72"	22"	47"	61"	19"	42"	55"	17"	39"	51"	15"
#9	62"	81"	25"	53"	69"	21"	48"	62"	19"	44"	57"	17"
#10	68"	88"	27"	59"	77"	24"	53"	69"	21"	48"	62"	19"
#11	75"	75"	30"	65"	85"	26"	58"	75"	23"	53"	69"	21"

1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS UNLESS OTHERWISE NOTED.

2. FOR ALL LIGHTWEIGHT CONCRETE, ALL LENGTHS IN THE TABLE ABOVE SHALL BE MULTIPLIED BY 1.33

4. BARS IN BEAMS OR SLABS THAT HAVE MORE THAN 12 INCHES OF FRESH CONCRETE BELOW ARE CONSIDERED TOP BARS, MULTIPLY ID AND IS BY 1.2

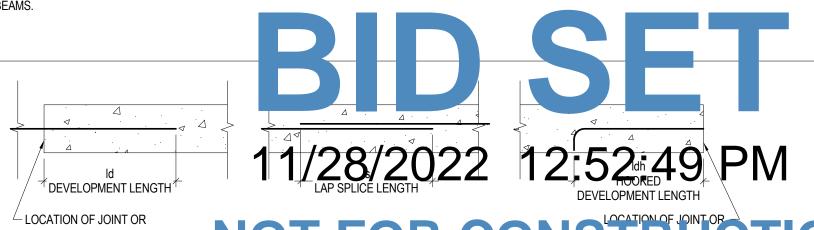
7. SPLICES FOR BUNDLED BARS.

A. FOR BUNDLED BARS OF THREE OR LESS, MULTIPLY IS BY 1.2 B. FOR BUNDLED BARS OF FOUR, MULTIPLY IS BY 1.33

D. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED E. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL NOT OVERLAP

THE HOOK OR OVER THE HOOKED DEVELOPMENT LENGTH, HOOKED DEVELOPMENT LENGTH MAY BE REDUCED BY 80 PERCENT B. FOR HOOKED BARS THAT WILL HAVE SIDE CONCRETE COVER (NORMAL TO PLANE OF HOOK) > = 2.1/2 INCHES AND 90-DEGREE HOOKS WITH COVER ON THE BAR EXTENSION BEYOND THE HOOK >= 2 INCHES, HOOKED DEVELOPMENT LENGTH MAY BE REDUCED BY 70 PERCENT.

DESCRIBED IN NOTE 9.A. WITH NO REDUCTION 10. HEADED BAR DEVELOPMENT LENGTH SHALL CONFORM TO SECTION 25.4.4 OF THE ACI 318-14



STRUCTURAL SCHEDULES SHEET NUMBER:

S601

DATE: 11/16/2022

MANAGER: RY

PROJECT: AW-031.01

REVISIONS

DATE DESCRIPTION

G UNIT J-BOX
ON/OFF LIGH SWITCH BY DIV. 16000 120 V (H)
 L120 V (N)

CEILING EXHAUST FAN CONTROL DIAGRAM

TYPICAL OF CEILING EXHAUST FAN CEF-1

GENERAL NOTES FOR MECHANICAL CONTROLS

- 1. ALL ELECTRICAL INSTALLATIONS INCLUDING POWER DISTRIBUTION AND SPECIAL SYSTEMS ARE INCLUDED IN THE SCOPE OF THE GENERAL CONTRACT, OF SPECIFIC CONCERN ARE THE CONTROL SYSTEMS RELATED TO MECHANICAL EQUIPMENT. RESPONSIBILITY FOR THE CONTROL WORK IS DIVIDED BETWEEN THE PROJECT ELECTRICIAN (DIV. 16000) AND A SPECIALTY CONTROLS CONTRACTOR (DIV 15000).
- 2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH DIVISION 16000 AND TO THE FULLEST EXTENT POSSIBLE, PRODUCTS AND PRACTICES SHALL BE SIMILAR FOR ALL INSTALLATIONS.
- 3. THE ELECTRICIAN SHALL PROVIDE ALL POWER TO AND THROUGHOUT THE BUILDING, TO INCLUDE MOTOR CONTROL CENTERS, BREAKER PANELS AND ALL OTHER SYSTEMS DESIGNATED TO THE ELECTRICIANS.
- 4. THE ELECTRICIAN SHALL RUN AND CONNECT ALL WIRING AND DEVICES 120 VOLTS AND ABOVE WHICH POWER MOTORS AND OTHER MECHANICAL DEVICES. WHERE CONTROL DEVICES ARE LOCATED IN POWER CIRCUIT, THE CONTROLS CONTRACTOR SHALL INTERRUPT THE CIRCUIT IN THE MECHANICAL EQUIPMENT JUNCTION BOX, WIRE THROUGH THE CONTROL DEVICE AND BACK TO THE JUNCTION BOX.
- 5. THE CONTROLS CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONTROL SYSTEM CIRCUITS.
- 6. BREAKERS AND DISCONNECTS, AUXILIARY CONTACTS, STANDARD PILOT LIGHTS AND MAGNETIC STARTERS ARE THE RESPONSIBILITY OF DIVISION 16000.
- 7. AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, CONTROL PANEL SWITCHES & DEVICES, THERMOSTATS, PRESSURE SWITCHES, ELECTRIC OPERATED VALVES, ETC., ARE THE RESPONSIBILITY OF DIVISION 15000.
- 8, ANY QUESTION OF RESPONSIBILITY SHALL BE CLARIFIED BY THE GENERAL CONTRACTOR
- 9. ALL WIRING SHALL TERMINATE AT LABELED TERMINAL STRIPS.

CC	NTROL EQU	IPMENT
SYMBOL	DESCRIPTION	VENSTAR MODEL NO.
T-1	THERMOSTAT	T2900
WS-1	WIRELESS SENSOR	-
DS-1	DISCHARGE AIR TEMP. SENSOR	ACC0400 (TYP. 13)

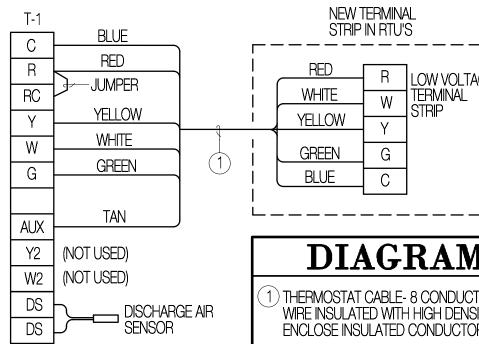
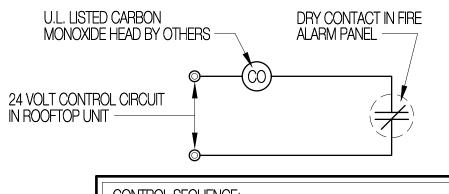


DIAGRAM NOTES 1) THERMOSTAT CABLE- 8 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE INSULATION. ENCLOSE INSULATED CONDUCTORS IN BROWN PVC JACKET.

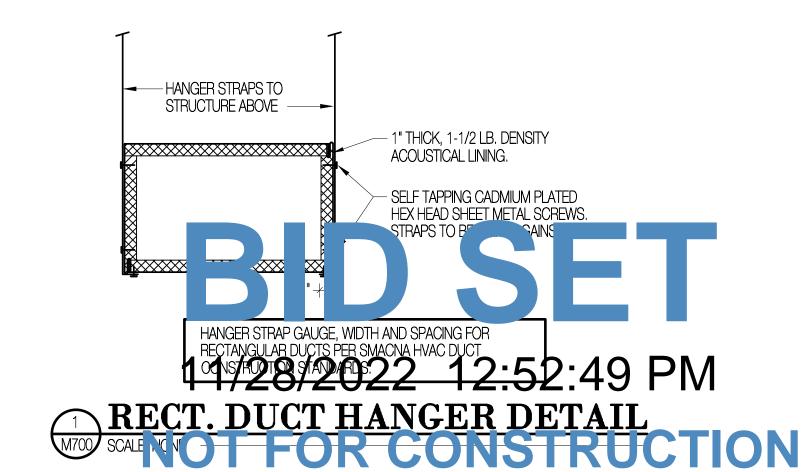
ROOFTOP UNIT CONTROL DIAGRAM TYPICAL OF RTU-1



CONTROL SEQUENCE: ROOFTOP UNIT SHALL SHUTDOWN UPON DETECTION OF CARBON MONOXIDE IN THE ZONE.

SAFETY CIRCUIT CO DETECTION

TYPICAL OF ALL ROOFTOP UNITS





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S MOUNTAIN WEST MONTESSORI 4000 WEST FOXVIEW DRIVE SOUTH JORDAN, UTAH

Project Number 4222

10/25/22 Drawing Title MECHANICAL CONTROLS

Issue Date

Sheet Number

	PLUMBING SY	MBO	L LEGEND \	ABBI	REVIATIONS
—— FD	FLOOR DRAIN		DROP IN PIPE	HDC+	VALVE IN DROP
——I WCO	WALL CLEAN OUT		RISE IN PIPE	VTR	VENT THROUGH ROOF
	DOMESTIC COLD WATER (DCW)	+	ELBOW IN PIPE	WHA	WATER HAMMER ARRESTOR
	DOMESTIC HOT WATER (DHW)	+++	TEE IN PIPE	A.F.F.	ABOVE FINISHED FLOOR
	DOMESTIC HOT WATER RECIRC. (DHWR)	─ √√	GAS SHUTOFF VALVE	C.O.	CLEANOUT
	WASTE (W)	— \$ —	GAS PRESSURE REGULATOR	D.N.	DOWNSPOUT NOZZLE
	VENT (V)	-	BALL VALVE	MV	MIXING VALVE

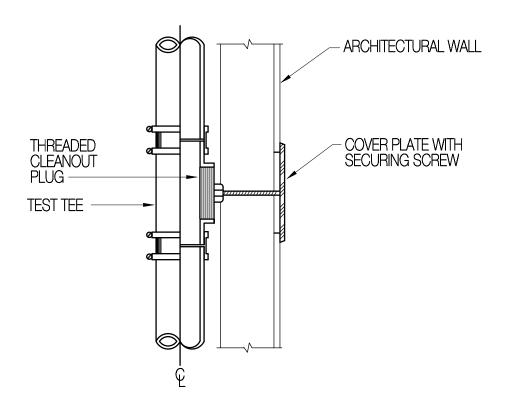
PLUMBING FIXTURE SCHEDULE									
SYMBOL	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS		
P-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, JUVENILE HEIGHT	1"	-	INT.	3"	2"	-		
P-2	LAVATORY, WALL MOUNTED, ADA COMPLIANT, AUTOMATIC FAUCET	1/2"	1/2"	1-1/2"	2"	1-1/2"	-		
P-3	PREP / BREAKROOM SINK, SINGLE BOWL, STAINLESS STEEL	1/2"	1/2"	1-1/2"	2"	1-1/2"	-		
FD	FLOOR DRAIN, 6" DIAMETER GRATE	-	-	2"	2"	2"	-		
WCO	WALL CLEAN OUT	-	-	-	-	-	<u>-</u>		

GENERAL FIXTURE NOTES:

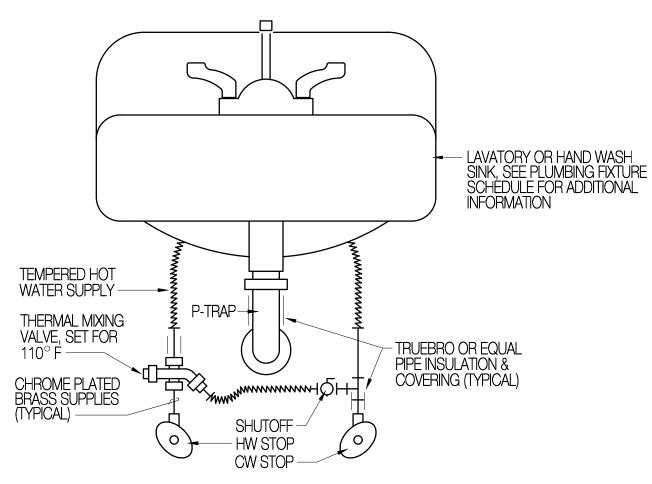
- . THE PLUMBING CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF ALL PLUMBING EQUIPMENT AND THE RELATED ROUGH IN LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS. PROVIDE ALL ACCESSORIES AND OPTIONS REQUIRED TO PROVIDE THE OWNER A COMPLETELY FUNCTIONAL PLUMBING SYSTEM.
- 2. ALL WALL HUNG PLUMBING FIXTURES SHALL BE SUPPORTED BY FLOOR MOUNTED CARRIERS (WADE, SMITH, JOSAM, MIFAB, OR WATTS) CARRIERS SHALL BE CONSTRUCTED UTILIZ-ING ALL METAL COMPONENTS WITH SUPPORT FEET SECURELY ANCHORED TO FLOOR STRUCTURE. FIXTURE ARMS SHALL SUPPORT FIXTURE INDEPENDENT FROM WALL STRUCTURE. 3. EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED QUARTER TURN STOP VALVE BRASSCRAFT MODEL KTCR_ OR ENGINEER APPROVED EQUAL.
- 4. FIXTURES AND ACCESSORIES SHALL BE AS SCHEDULED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM. 5. ADA COMPLIANT FIXTURES SHALL BE INSTALLED WITH PRE-FORMED INSULATION AND PROTECTIVE COVERS ON P-TRAPS AND STOPS. COVERS TO BE MANUFACTURED BY
- BUCKAROOS OR TRUEBRO. 3. CAULK ALL FIXTURES TO THE WALL OR FLOOR WITH APPLICABLE SILICONE COMPOUND. UTILIZE MULTIPLE BEADS TO FILL GAPS AND FINISH TO SMOOTH, FILLETED EDGE. USE
- APPROPRIATE TOOLS TO PROVIDE PROFESSIONAL APPEARANCE. '. ALL PLUMBING SHALL BE INSTALLED TO CONFORM TO THE LATEST ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE INCLUDING LOCAL AMENDMENTS. CONSULT AUTHORITIES HAVING JURISDICTION.
- B. ALL SINKS AND LAVATORIES WHERE HAND WASHING IS ANTICIPATED (FIXTURE P-2 & 3) SHALL BE PROTECTED WITH ASSE 1070 APPROVED TEMPERING VALVES PER DETAIL 6/MP-000.

	PIPING MATERIALS SCHEDULE							
SERVICE	MATERIAL	REMARKS						
DCW / DHW / DHWR	TYPE "L" COPPER TUBING W/ WROUGHT COPPER FITTINGS	-						
NAT. GAS	SCHEDULE 40 BLACK IRON	-						
WASTE / VENT	SOLID CORE ABS OR PVC WITH DWV FITTINGS ABOVE AND BELOW GRADE	(1)						
ROOF DRAIN / OVERFLOW	HUB AND SPIGOT OR NO HUB CAST IRON, ONLY MATERIALS RATED FOR PLENUM USE WILL BE INSTALLED IN THE BUILDING	-						

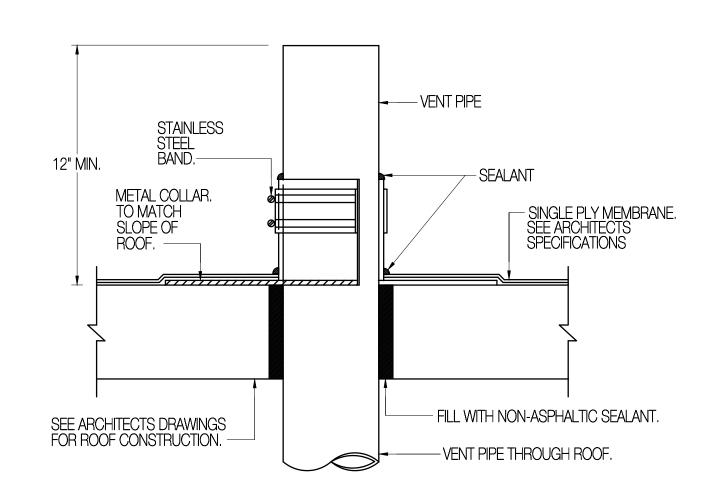
(1) ALL ABS OR PVC PIPING INSTALLED IN RETURN AIR PLENUMS SHALL BE EITHER ENCLOSED IN SHEETROCK CHASES OR WRAPPED WITH 3M 5A BARRIER WRAP OR EQUIVALENT.



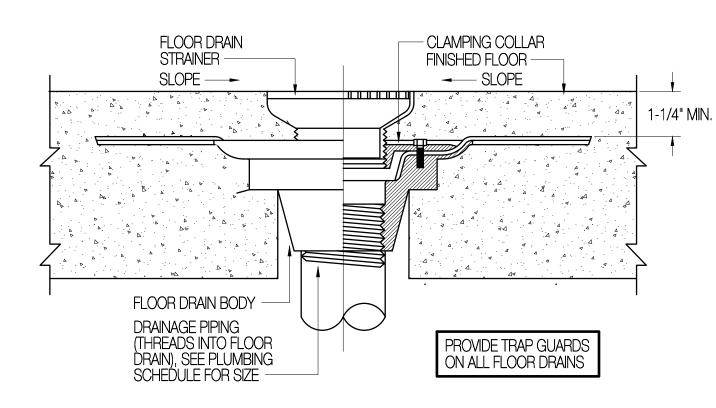








TYPICAL VENT THRU ROOF DETAIL



FLOOR DRAIN DETAIL SCALE: NONE

	MECHANICAL SYMBOL LEGEND								
 ∑	SUPPLY AIR DIFFUSER	— — H.D.	HAND DAMPER, SEE DETAIL 7/M-001	HET	HIGH EFFICIENCY TAKEOFF				
	RETURN OR EXHAUST GRILLE		RISE OR DROP IN DUCT	A.L.	ACOUSTICAL LINING				
24" x 12"	ACOUSTICALLY LINED DUCTWORK (INSIDE CLEAR DIMENSION)	(1)	THERMOSTAT	S.A.	SUPPLY AIR				
SLOPE >	SLOPE IN DUCT, SEE SECTIONS FOR SLOPE DIRECTION		SUPPLY AIR DIRECTION	R.A.	RETURN AIR				
	RECTANGULAR SUPPLY AIR DUCT CROSS SECTION	─ \─ ►	RETURN AIR DIRECTION	NK.	NECK				
	ROUND SUPPLY AIR DUCT CROSS SECTION	A.F.F.	ABOVE FINISHED FLOOR						

	HEATING/COOLING ROOFTOP UNIT (RTU)																	
	HEATING SECTION COOLING SECTION		SECTION	FAN SECTION COND		COND.	COND. COND. AN		. UNIT		INIT ELEC. REQUIREMENTS			TS	VODIZ			
SYMBOL	HEATING INPUT (BTUH)	HEATING OUTPUT (BTUH)	TOTAL CAP. (BTUH)	SENS. CAP. (BTUH)	CFM	E.S.P. (IN. WC.)	MOTOR HP	COND. COIL AREA (SQ. FT.)	COIL CFM	AIR TEMP.	MIN. EER	VOLTS	PH.	HZ.	MCA	MOCP	YORK MODEL	REMARKS
RTU-1	100,000	80,000	32,100	29,700	1,170	1.0	1.5	16.3	3,800	95 ° F	11.0	460	3	60	14.6	15	ZF036	12345
	1 CAPACITY REQUIRED AT SITE ELEVATION AND CONDITIONS. 3 FACTORY INSTALLED ECONOMIZER W/ BARO, RELIEF. 5 BALANCE OUTSIDE AIR TO 185 CFM. 2 PROVIDE UNIT WITH 120 V CONVENIENCE OUTLET. 4 BELT DRIVE																	
<u>UNIT WEIG</u> RTU-1: 54																		

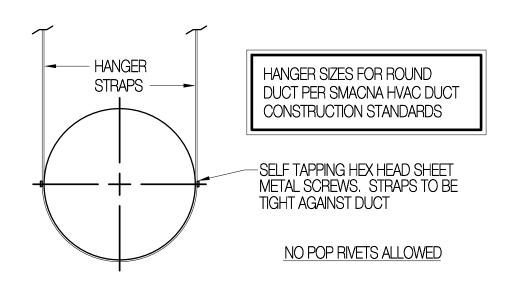
						C	EILIN	G EXHAUS	ST FANS
SYMBOL	MINIMUM CFM	TOTAL STATIC PRESSURE IN. WG.	ELEC VOLTS	TRICAL PH.	REQUIR HZ.	EMENTS WATTS	BROAN MODEL	SERVICE	REMARKS
CEF-1	100	0.375"	120	1	60	87	L150MG	RESTROOM 104	-
1) CAPACI	TIES AT JOB S	SITE ELEVATION.							

			BAS	EBOA	RD RADI	IATION (BR)
SYMBOL	TYPE	LENGTH	ELECTRICAL REQUIREMENTS VOLTS PH. HZ. WATTS	INDEECO MODEL	SERVICE	REMARKS
BR-1	ELEC.	39"	208 1 60 750	904U00750C	VESTIBULE 100	
1 PROVIDE	E WITH TAMPE	R PROOF THERMO	STAT AND BUILT IN DISCONNECT SWITCH			

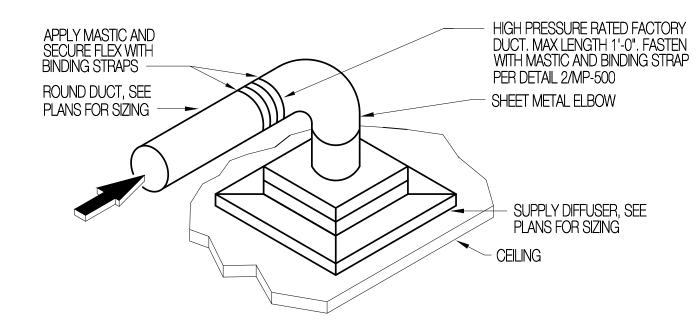
	GRILLES AND DIFFUSERS								
SYMBOL	CFM	NECK SIZE	FACE SIZE	KRUEGER MODEL	REMARKS				
S-1	AS NOTED	AS NOTED	AS NOTED	1400A	-				
S-2	AS NOTED	AS NOTED	AS NOTED	SH	SURFACE MOUNT FRAME / BLOW DIRECTION AS INDICATED				
R-1	AS NOTED	AS NOTED	AS NOTED	6490	-				
	·								

GENERAL NOTES

- 1. ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL ASPECTS OF THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING PRICING. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO TO ANY INSTALLATION SUCH THAT CLARIFICATIONS CAN BE ISSUED.
- 2. ANY WORK PERFORMED OR MATERIAL USED WHICH IS SHOWN TO BE IN CONFLICT WITH THE CONTRACT DRAWINGS, SPECIFICATIONS OR ANY APPLICABLE CODE OR GOVERNING REGULATION SHALL BE REMOVED AND REPLACED OR CORRECTED AT THE CONTRACTOR'S
- 3. ALL SYMBOLS AND ABBREVIATIONS USED ON THE CONTRACT DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
- 4. <u>DO NOT SCALE THE DRAWINGS:</u> ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO FABRICATION OF MATERIALS OR ERECTION OF ASSEMBLIES. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
- 5. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETION OF THE WORK. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE DONE IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND GOVERNING REGULATIONS.
- 6. ALL PERMITS AND FEES WHICH ARE REQUIRED FOR THIS WORK SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR.
- 7. ALL PLUMBING AND MECHANICAL INSTALLATIONS SHALL ADHERE TO THE 2018 IECC INCLUDING: MINIMUM R-6 INSULATION ON ALL NON-ACOUSTICALLY LINED DUCTWORK; ACOUSTICAL LINER SHALL PROVIDE A MINIMUM OF R-6 INSULATING VALUE, ALL DOMESTIC WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" FIBERGLASS INSULATION.



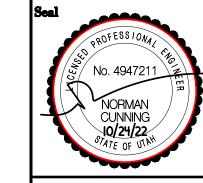






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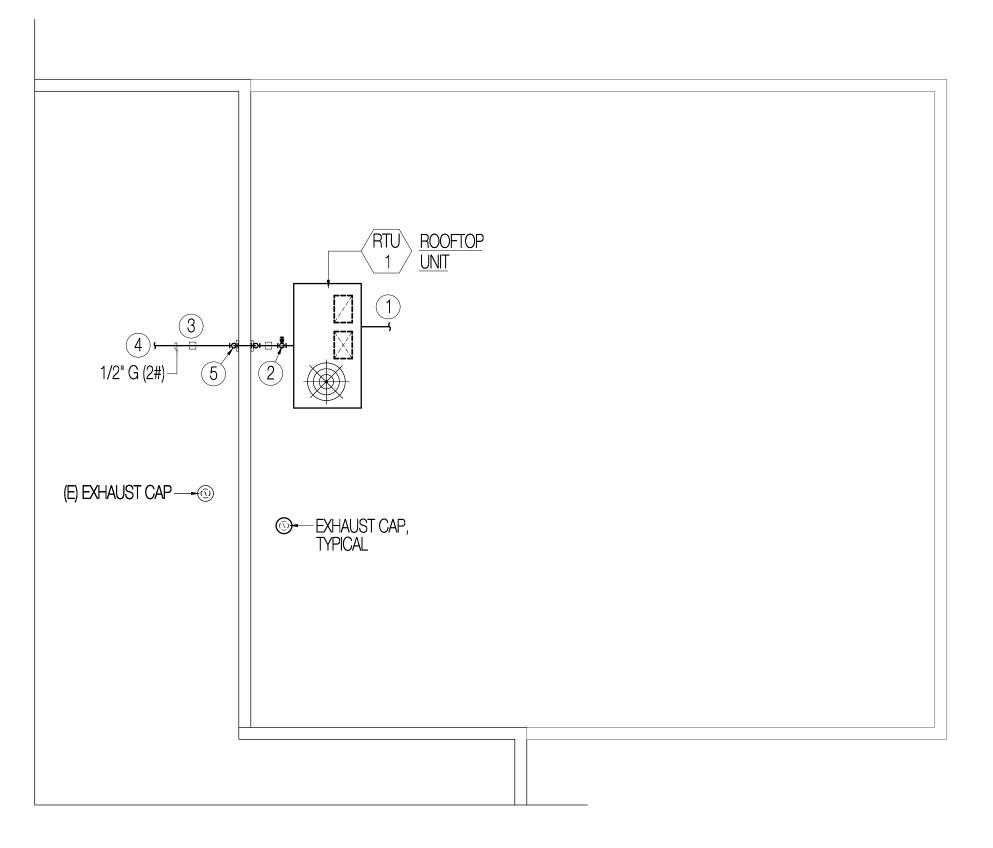
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Project Number Issue Date 4222 10/25/22

Drawing Title MECH. / PLUMB. SCHEDULES & SYM. LGND.

Sheet Number MP 000

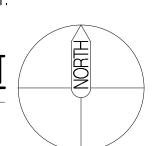


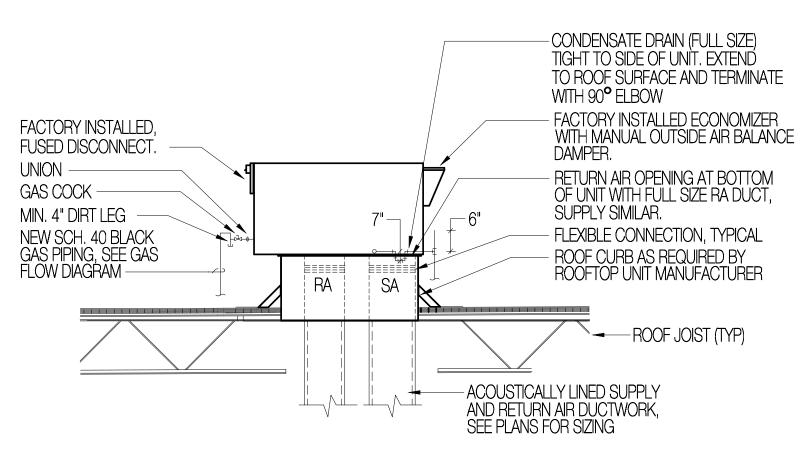
DRAWINGS NOTES:

- (1) LINE SIZE PVC CONDENSATE DRAIN PIPING, EXTEND TO ROOF SURFACE PER DETAIL 1/M-100.
- (2) GAS PIPING CONNECTION TO APPLIANCE. CONNECT APPLIANCE TO EXISTING MAIN WITH 6" DIRT LEG, GAS PRESSURE REGULATOR AND CORRUGATED STAINLESS STEEL TUBE FLEXIBLE CONNECTION.
- (3) MIRO MODEL 3-R-2, OR EQUAL PIPE SUPPORT, TYPICAL OF ALL.
- (4) EXTEND 1/2" (2#) GAS PIPING TO 1" MAIN APPROXIMATELY 75'-0" AWAY. FIELD VERIFY EXACT LOCATION
- OF EXISTING MAIN AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.

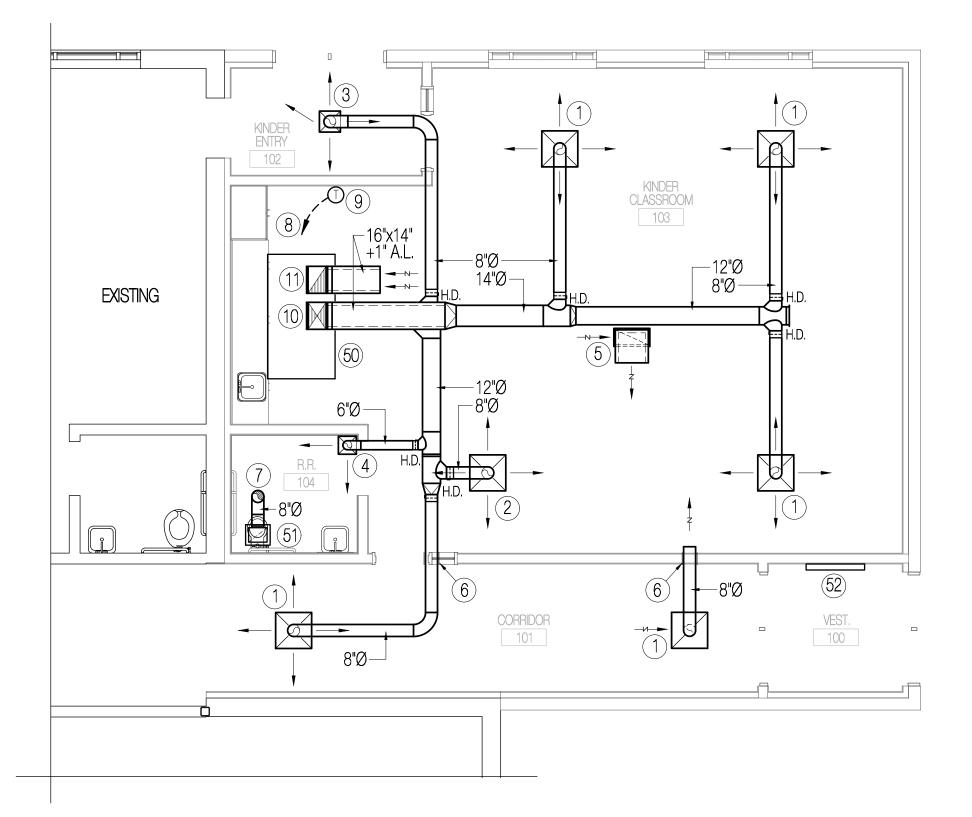
(5) 1/2" (2#) GAS PIPING UP AN OVER PARAPET, SUPPORT PIPING OVER PARAPET WITH UNISTRUT.

HVAC / PLUMBING ROOF PLAN





RTU INSTALLATION DETAIL



DRAWING NOTES

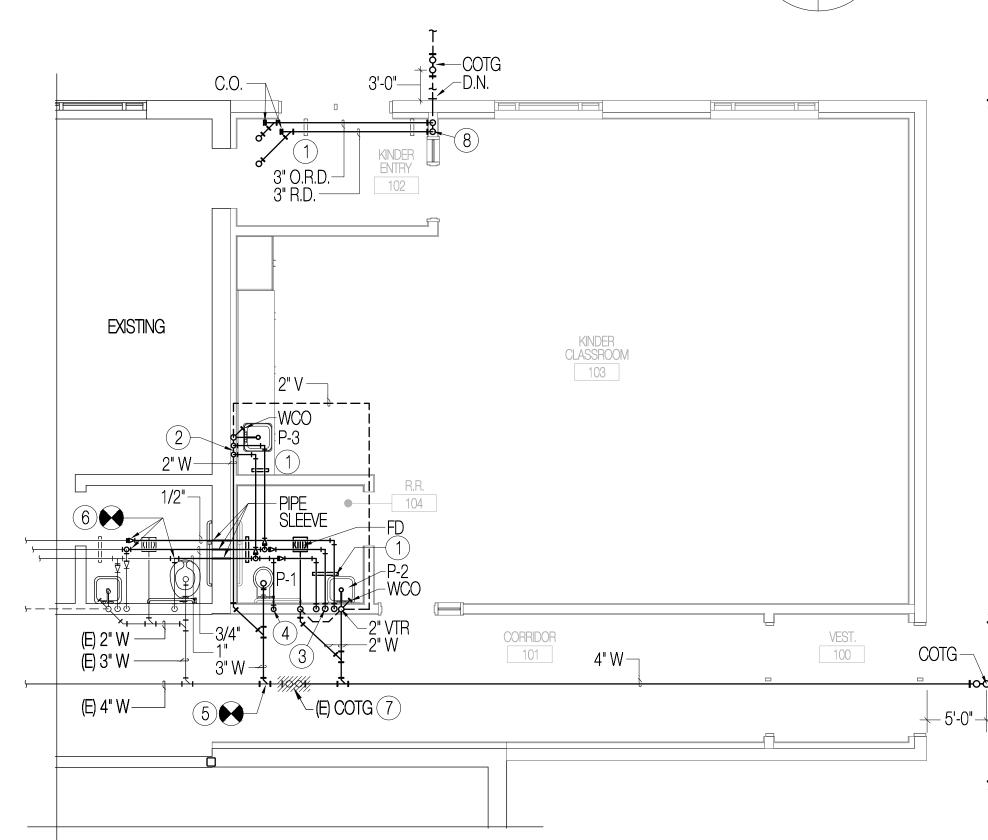
- (1) S-1 200 CFM, 8"Ø NK. S.A. DIFFUSER.
- (2) S-1 150 CFM, 8"Ø NK. S.A. DIFFUSER.
- (3) S-2 145 CFM, 8"Ø NK. S.A. DIFFUSER.
- (4) S-2 75 CFM, 6"Ø NK. S.A. DIFFUSER.
- (5) R-1 10"x22" NK. R.A. GRILLE WITH ACOUSTICALLY LINED PLENUM WITH O.B.D., BALANCE RETURN GRILLE TO MATCH SUPPLY CFM.
- (6) EXTEND DUCTWORK THROUGH SHEETROCK PARTITION AND SEAL AIR TIGHT PER DETAIL 3/MP-500.
- (7) 8"Ø EXHAUST DUCT RISE TO VENT CAP ON ROOF, SEE DETAIL 5/MP-500 FOR ADDITIONAL INFORMATION.
- (8) CONTROL WIRING FROM THERMOSTATS TO ROOFTOP EQUIPMENT SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 9 PROVIDE AND INSTALL NEW THERMOSTAT, MOUNT THERMOSTAT AT 48" A.F.F. SEE CONTROL DIAGRAMS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 10 16"x14"+1"A.L. SUPPLY AIR DUCT ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCT TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 1/M-100.
- 11) 16"x14"+1"A.L. RETURN AR DUCT ON BOTTOM OF ROOFTOP UNIT. TRANSITION DUCT TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 1/M-100.

EQUIPMENT NOTES

50 RTU ROOFTOP

EXHAUST FAN





PLUMBING FLOOR PLAN

DRAWING NOTES

- 1) PIPE SUPPORT, SEE DETAIL 11/MP-500.
- (2) 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
- 3 1/2" DOMESTIC HOT, 1/2 DOMESTIC HOT WATER RECIRCULATION, AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE HOT AND COLD WATER PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
 TERMINATE HOT WATER RECIRC. PIPING WITH TEE INTO INTO HOT WATER
 PIPING WITHIN 1'-0" OF HOT WATER STOP.
- 4 1" DOMESTIC COLD WATER PIPING DROP TO FLUSH VALVE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH PIPE NIPPLE AND INSTALL FLUSH VALVE TRIM AS REQUIRED BY SPECIFICATION. PROVIDE WATER HAMMER ARRESTOR WITH SHUTOFF VALVE AND LOCKING ACCESS DOOR ON ACCESSIBLE SIDE OF TOILET NEAR FLOOR.
- 5 FIELD VERIFY EXACT LOCATION AND DEPTH OF EXISTING WASTE PIPING AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
- 6 FIELD VERIFY EXACT LOCATION OF EXISTING DOMESTIC WATER UTILITIES AND CONNECT NEW TO EXISTING UTILIZING LIKE MATERIALS.
- 7 FIELD VERIFY EXACT LOCATION OF EXISTING CLEANOUT TO GRADE AND REMOVE. CONNECT NEW WASTE PIPING TO EXISTING AND EXTEND NEW WASTE PIPING AS INDICATED.

DRAWING NOTES

8 4"Ø CAST IRON ROOF DRAIN PIPING IN WALL CAVITY, SEE PIPING MATERIALS SCHEDULE SHEET P-000 FOR ADDITIONAL REQUIREMENTS. EXTEND PRIMARY ROOF DRAIN PIPING TO NEAREST CATCH BASIN, SEE CIVIL PLANS FOR ADDITIONAL INFORMATION. TERMINATE OVERFLOW PIPING 6" A.F.G. WITH A DOWNSPOUT NOZZLE PER DETAIL 13/MP-500.



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No. 49472 NORMAN CUNNING

Date

Mechanical

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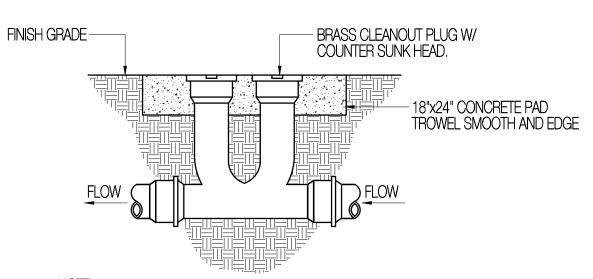
TEST XVII

Project Number

Issue Date 10/25/22 4222

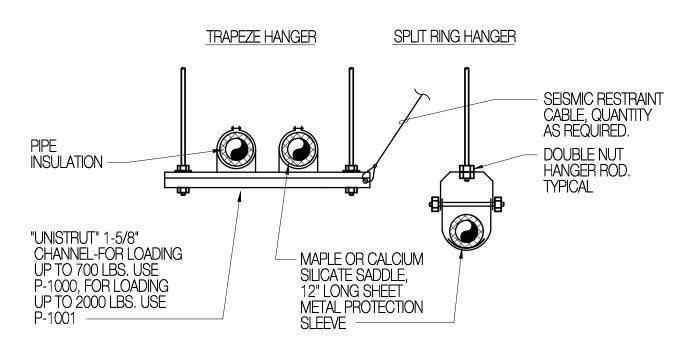
HVAC / PLUMBING FLOOR PLANS & ROOF PLAN

Sheet Number MP 100



NOTE:
WHERE LOCATED IN PLANTING, BURY HUB 6" BELOW FINISHED GRADE.

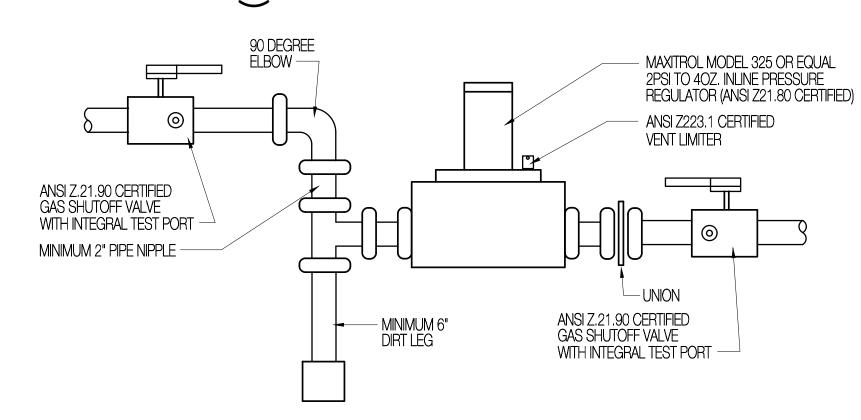
TWO WAY CLEANOUT DETAIL



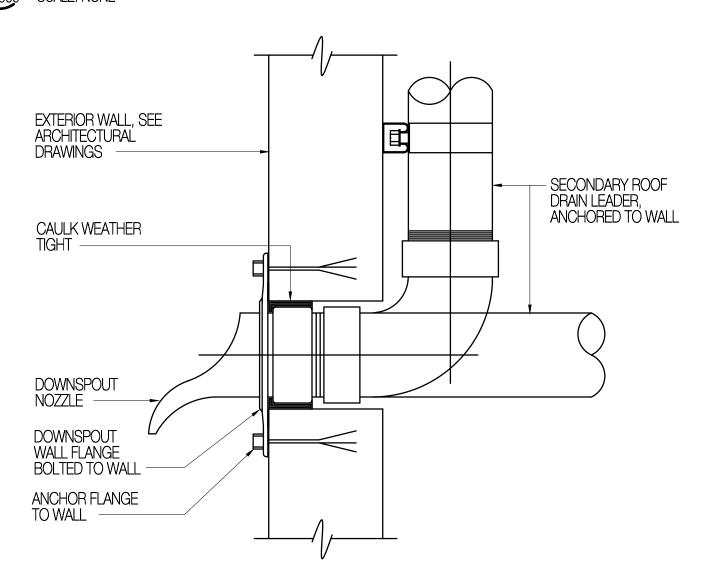
PIPE SIZE	MAX, SPACING	PIPE LOAD WEIGHT/FT. TOTAL	ROD SIZE
1" AND SMALLER	8	2.5/20	3/8"
1-1/4" - 2"	10	6/60	3/8"

HANGERS SIZES AND SPACING ARE FOR SINGLE PIPES. HANGER ROD LOADING FOR TRAPEZE HANGERS SHALL NOT EXCEED THE TOTAL LOADING INDICATED. IF SMALLER ROD SIZE IS USED, DECREASE MAXIMUM SPACING SO THAT TOTAL LOADING IS NOT EXCEEDED.

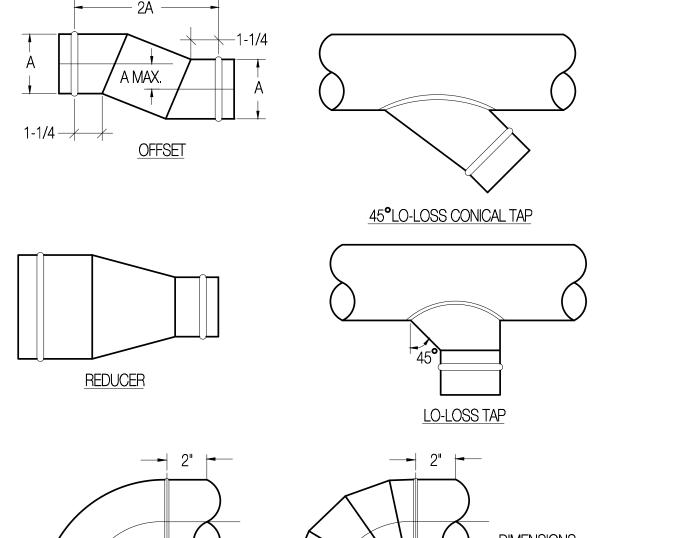
PIPE HANGER DETAIL

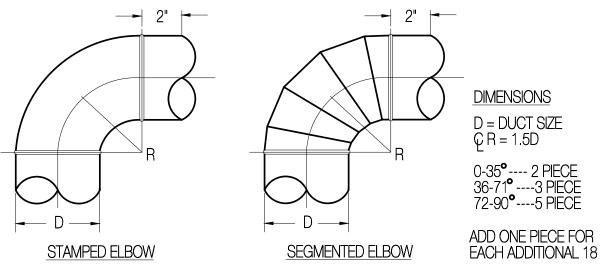


GAS PRESSURE REGULATOR DETAIL MP500 SCALE: NONE

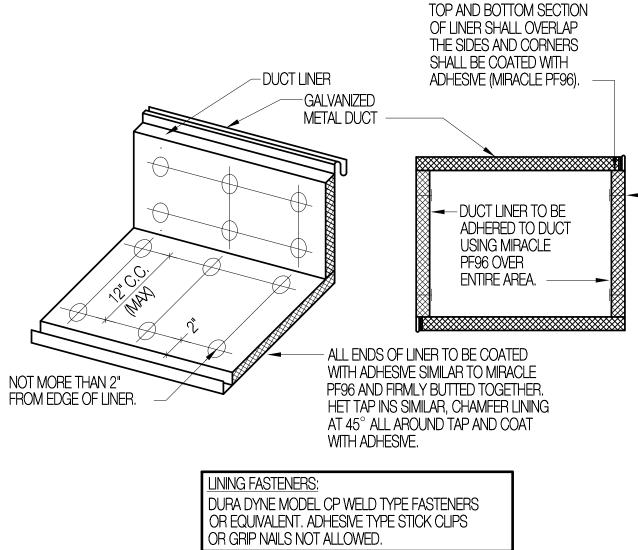


DOWNSPOUT NOZZLE AT WALL DETAIL

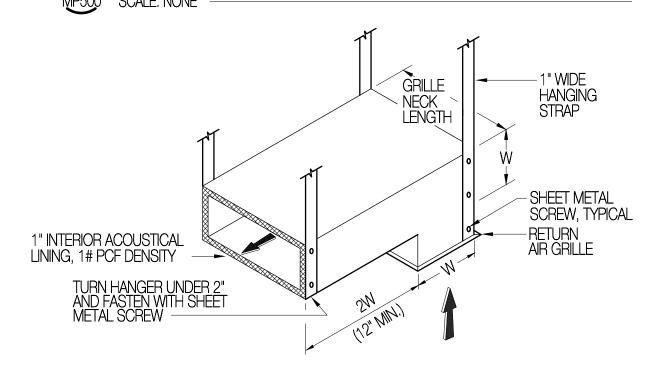




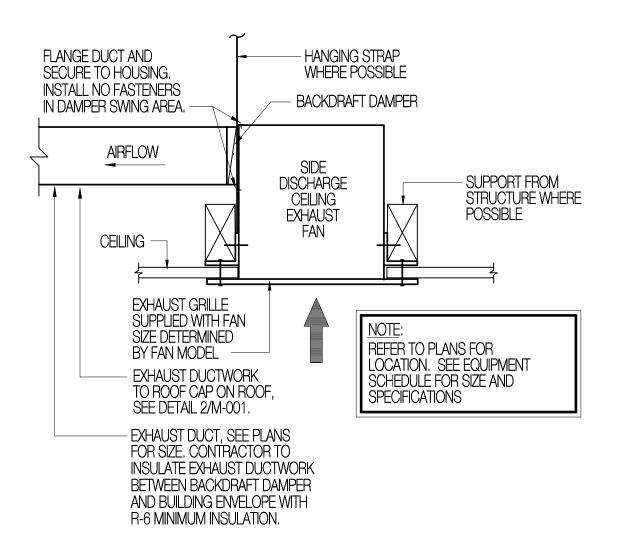
ROUND DUCT FITTINGS



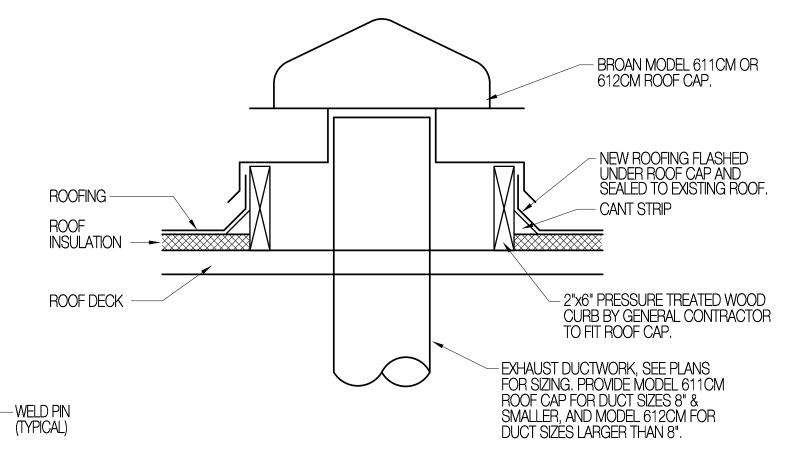
ACOUSTICAL LINER DETAIL



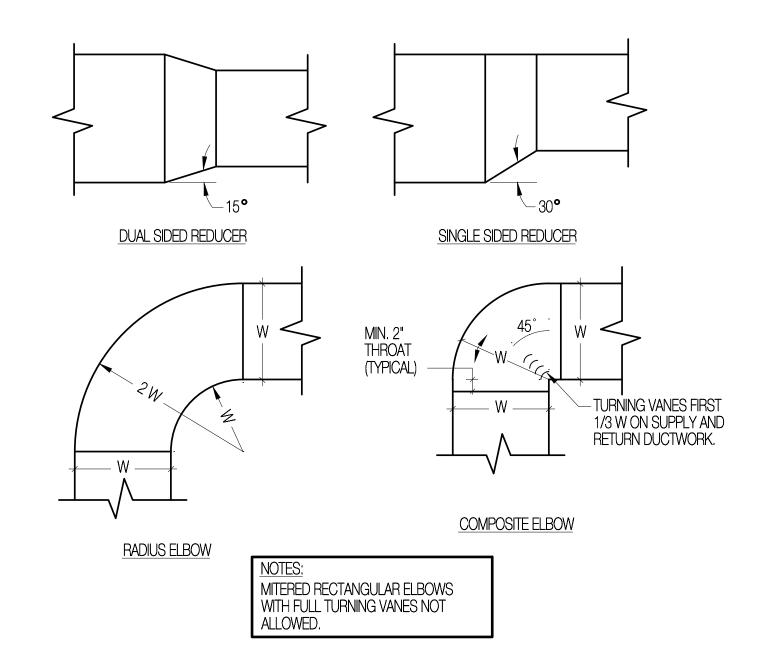
SOUND BOOT DETAIL



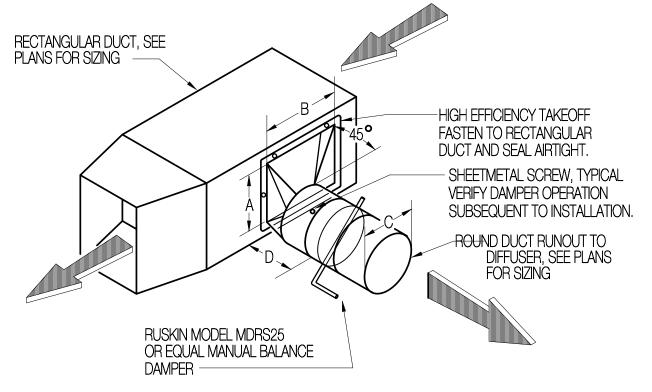
CEILING EXHAUST FAN DETAIL



EXHAUST ROOF CAP DETAIL

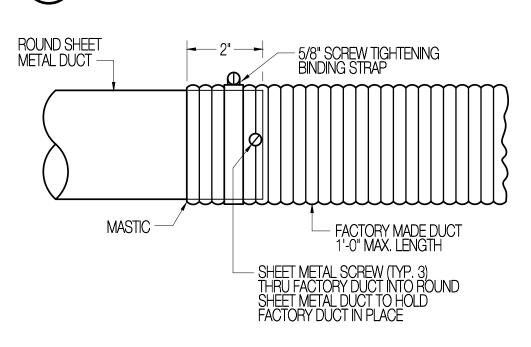


RECTANGULAR DUCT FITTINGS

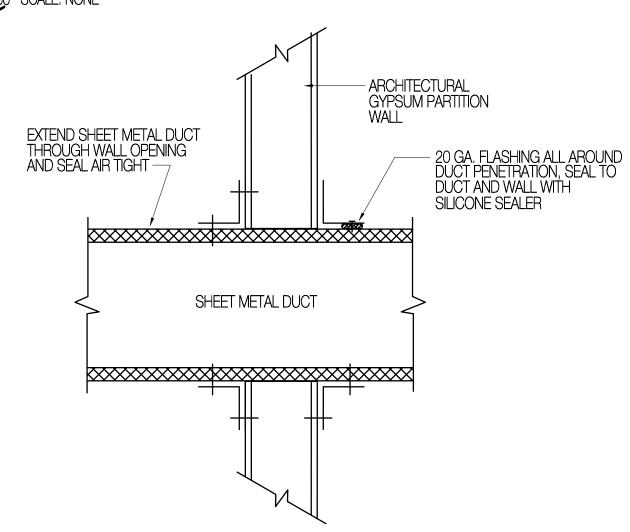


\mathbf{HE}	HET DIMENSIONS									
BRANCH SIZE (C)	THROA A	T DIM. B	MIN. AREA AXB							
6"	8-1/4"	12"	3.5 X AREA OF C							
8"	10-1/4"	14"	2.8 X AREA OF C							
10"	12"	15"	2.3 X AREA OF C							
12"	14"	17"	2.1 X AREA OF C							
LENGTH D S	ENGTH D SHALL BE A MINIMUM OF 11"									

ROUND DUCT RUNOUT DETAIL MP500 SCALE: NONE



FACTORY DUCT DETAIL MP500 SCALE: NONE

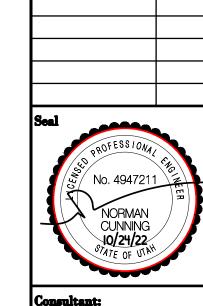




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DUCT PENETRATION DETAIL

NOT FOR CONSTRUCTION



Iechanical Consulting

Date

Engineers Cunning & Associates
4685 W. 11600 N. Tremonton, UT 84337 Email: cunningassoc@frontier.com

ON

MOUNTAIN WEST MONTESS 4000 WEST FOXVIEW DRIVE SOUTH JORDAN, UTAH

Project Number Issue Date 10/25/22 4222

Drawing Title
MECHANICAL /
PLUMBING
DETAILS

MP 500

MECHANICAL SPECIFICATIONS

ASTM B31.1 Piping

GENERAL CONDITIONS

DESCRIPTION OF PROJECT: The mechanical work described in these mechanical specifications is for a project located in South Jordan, Utah. Design weather conditions are: 93° db, 63° wb, and winter 1°F. Altitude readings, unless otherwise noted, are for an elevation of 4,500 feet above sea level. Make adjustment to manufacturer's performance data as needed.

CODES AND PERMITS, AUTHORITIES HAVING JURISDICTION: 2018 International Mechanical Code - (with Utah amendments) 2018 International Building Code – (with Utah amendments) 2018 International Plumbing Code – (with Utah amendments) 2018 International Energy Code – (with Utah amendments) SMACNA Duct Design Standards Locally enforced NFPA Codes Local Fuel Utility Regulations Local Power Utility Regulations American Gas Association

DEFINITION OF PLANS AND SPECIFICATIONS: The mechanical drawings at reduced scale show the general arrangement of piping, ductwork, equipment, etc., and shall be followed as closely as the actual building construction and the work of other trades will permit. The architectural and structural drawings shall be considered as part of the work insofar as these drawings furnish the Contractor with information relating to design and construction of the building. Architectural drawings shall take precedence over mechanical drawings. Request clarification and participate in resolution in the event of conflict.

- A. Because of the small scale of the mechanical drawings, it is not possible to indicate all offsets, fittings and accessories which may be required. Investigate the structural and finish conditions affecting the work and arrange the work accordingly, providing such extensions, fittings, valves and accessories to meet the conditions as may be required. Some small scale work is not shown such as control conduit and piping, incidental piping, specialties. Provide as directed by note or specification.
- Examine the actual construction site prior to bidding and obtain an understanding of the conditions under which the work will be performed. No allowances will be made for failure to make such examination.
- During construction, verify the dimensions governing the mechanical work at the building. No extra compensation shall be claimed or allowed because of differences between actual dimensions and those indicated on the drawings. Examine adjoining work on which mechanical work is dependent for perfect efficiency, and report any work of other trades which must be corrected. No waiver of responsibility for defective work shall be claimed nor allowed due to failure to report unfavorable conditions affecting the mechanical work.

ALTERNATIVE CONSTRUCTION/SUBSTITUTION: The contract documents outline a way in which the Owner may be delivered a functional and reliable facility. Drawings and specifications describe reasonable engineering practice for the Contractor to follow.

- Coordination between trades may result in periodic needs to adjust the installation from that indicated, but in no case shall the intended function be compromised.
- The Contractor may perceive some work methods which differ from those specified which could save time and effort. These may be presented to the Architect with a breakdown of possible cost savings for review. Implement only with authorization.
- Materials substitutions will generally be covered in a review process prior to bidding. After bidding, substitutions shall be proposed only on the basis of definitive cost accounting and implemented only with authorization.

QUALITY OF MATERIALS AND EQUIPMENT

(2)

(1)

(2)

(3)

(4)

(2)

Approved Manufacturers:

McGuire

Approved Manufacturers:

Dearborn

McGuire

Sanitary Dash

Jameco

Approved Manufacturers:

(1) Zurn No. ZN-415.

Josam No. 30000 -A

J.R. Smith No. 2010

Wade No. 1100 Series

Sanitary Dash No. SS3000W

Jameco

Elkay

Strainer:

P-Trap:

(FD) Fixture:

Finished Walls:

Floor Drain:

Cleanouts

All equipment and materials shall be new, and shall be the standard products of manufacturers regularly engaged in the production of plumbing, heating, ventilating and air conditioning equipment, and shall be the manufacturer's latest design. Specific equipment shown in schedules on drawings and specified herein

Basket strainer, stainless steel, stainless steel basket, neoprene stopper, locking shell,

tailpiece. Provide offset type where required to maintain ADA clearances.

17 gauge, tubular brass, cleanout plug, chrome plated and chrome escutcheons.

6" diameter nickel bronze strainer, cast iron body with 2" outlet and deep seal P-trap,

clamping collar. Provide Proset Protection "Trap Gaurds" or similar on all floor drains.

is to be the basis for the Contractor's bid. Provisions for substitute equipment are outlined in the General Conditions. All materials shall be produced by manufacturing plants located in the United States of

Furnish and install all major items of equipment specified in the equipment schedules on the drawings complete with all accessories normally supplied with catalog items listed, and all other accessories necessary for a complete and satisfactory installation.

MANUFACTURER'S DIRECTIONS: Install all equipment in strict accordance with directions and recommendations furnished by the manufacturer. Where such directions are in conflict with the plans and specifications, report such conflicts to the Architect who shall direct adjustments as deemed necessary and desirable.

<u>VALVES</u>:

DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN: Ball Valves: Copper piping, 2-1/2" and Smaller: 475 psig WOG @ 250°F, bronze construction, soldered ends for 3/4" and smaller, threaded ends for 1" and larger, glass Reinforced PolyTetraFlouroEthylene (RPTFE) seat providing bubble tight leakage performance at 100 psig air pressure under water, full port stainless steel ball. Operate with flow in either direction. Suitable for throttling and tight shut-off. Lever

- or tee handle as required. Manufacturers & Models: Provide ball valves from one of the manufacturers and model
 - numbers listed below. (1) Apollo 77-140
 - (2) Watts FBV-SS (up to 2") (3) Nibco T-580-70-66 (up to 1")
 - (4) Crane/Stockham 285-BR-R-66

INSULATION:

WATER PIPING (domestic cold & hot water, 1" thickness required.) Preformed Fiberglass Piping Insulation: ASTM C 547. (Class 1 for use to 450°F (230°C); Class 2 for use to 650°F (345°C); Class 3 for use to 1200°F (650°C).

<u>DUCTWORK</u> (1-1/2" thickness for all non-acoustically lined ductwork in concealed spaces): A. Flexible Fiberglass Ductwork Insulation: ASTM C 553, Type 1 - resilient, flexible; Class B-1 - 0.65 lbs/ft³; Class B-2 - 0.75 lbs/ft³; Class B-3 - 1.0 lbs/ft³; Class B-4 - 1.5 lbs/ft³; Class B-5 - 2.0 lbs/ft³; Class B-6 - 3.0 lbs/ft³; Type II - flexible; Class F-1 - 4.5 lbs/ft³; Type III - semirigid; Class F-2 - 4.5 lbs/ft³.

DOMESTIC WATER:

A. Domestic Water: Pipe Sizes 4" and Smaller: Copper tubing. Conform to ASTM B88, Type L, hard temper, copper tube; ASME B16.22 streamlined pattern wrought-copper fittings, with soldered joints using 95-5 tin antimony solder or non-lead bearing solders such as "Silvabrite."

WASTE, DRAIN AND VENT PIPING:

Sanitary Soil Drain, Waste and Vent Piping:

Cross-linked polyethylene conforming to ASTM F877.

Piping and Fittings: Schedule 40 PVC pipe and fittings conforming to the requirements of ASTM D 2665. Pipe and fittings shall be produced domestically as supplied by Spears, or Charlotte Pipe and Fittings.

NATURAL GAS PIPING:

Building Distribution Piping:

Pipe Size 2" and Smaller: Black steel pipe; Schedule 40; malleable-iron threaded fittings (exposed), welded fittings and joints (concealed). Gas Cocks:

Gas Cocks 2" and Smaller: 150 psi non-shock WOG, bronze straightway cock, flat or square

LOW PRESSURE ROUND DUCTWORK: Round type ductwork for use on low velocity supply systems (1200 fpm maximum), low pressure (0.75" maximum duct pressure), shall be fabricated on 26 gauge galvanized steel sheets with snap-

lock longitudinal seams and crimped and beaded joints Il end joints shall have at least three screw fasteners and joints shall be sealed airtight with Hardcast TA tape or water based duct sealer. Snap lock longitudinal seams shall be seal with water based duct sealer NO EXCEPTIONS. Elbows and fittings shall provide smooth air flow patterns and have a neat appearance.

MEDIUM PRESSURE DUCTWORK: (3" SMACNA Pressure Class)

General: At Installer's option, provide factory-fabricated duct and fittings, in lieu of shop-fabricated duct

Round Ductwork: Construct of galvanized sheet steel complying with ASTM A 527 by the following methods and in minimum gauges listed.

<u>Manufacture</u> <u>Diameter</u> M<u>inimum Gauge</u> 3" to 14" Spiral Lockseam

Provide locked seams for spiral duct; fusion-welded butt seam for longitudinal seam duct.

Round Duct Fittings and Couplings: Construct of minimum gauges listed. Provide continuous welds along

<u>Diameter</u>

Approved Manufacturers:

(1) Zurn No. Z-1445-1 J.R. Smith No. 4530 Wade No. W-8460-R Josam No. 58790

A. Standards: All duct fabrications shall comply with standards and techniques detailed by SMACNA "Duct Construction Manuals" for the appropriate pressure class, with the ASHRAE Handbook, 1988 edition, Chapter 1, Duct Construction, and with the contract drawing details.

Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized sheet steel complying with ASTM A 527, lockforming quality, with G 90 zinc coating in accordance with ASTM A 525; mill phosphatized for exposed locations.

A. Fittings: Fabricate duct fittings to match adjoining ducts, and to comply with duct requirements as applicable to fittings. Fabricate elbows utilizing inside and outside radiuses with a center-line radius equal to associated duct width; or where fully radiused elbows are not possible, fabricate elbows with an inside square and outside radius and include turning vanes in the first 1/3 of elbow. Maintain duct width throughout turn on inside square and outside radiused elbows. Limit angular tapers to 30° for contracting tapers and 20° for expanding tapers.

- Fabricate ductwork with accessories installed during fabrication to the greatest extent possible. Fabricate ductwork with duct liner in each section of duct where indicated. Laminate liner to internal surfaces of duct in accordance with instructions by manufacturers of lining and adhesive,
- and fasten with weld type fasteners. Offset, transition, adapt ductwork to structural obstacles and work of other trades in a coordinated effort. Layout work to avoid conflict with piping, etc. With review of conditions, teardrop around conflicting piping, lights, etc., all at no added cost to the owner.

15" to 26" Spiral Lockseam

seams. Mitered elbows shall be of at least 5 piece construction with R/D ratio of 1.5.

Minimum Gauge

3" to 36"

LOW PRESSURE RECTANGULAR DUCTWORK Rectangular ductwork for use on supply systems up to 2" maximum duct static pressure and 2000 fpm maximum duct velocity shall be constructed of galvanized steel using construction for nominal 3" SMACNA rated systems. Seal all transverse and longitudinal joints with water based duct sealer NO EXCEPTIONS.

Use radiused elbows, or square inside radiused outside elbows with single thickness turning vanes in the first 1/3 where space restrictions prohibit fully radiused elbows. Use 45° high efficiency tapping takeoffs with separate downstream balance dampers.

Duct dimensions are inside clear. Increase for acoustical lining.

MISCELLANEOUS DUCTWORK MATERIALS:

A. General: Provide miscellaneous materials and products of types and sizes indicated and, where not otherwise indicated, provide type and size required to comply with ductwork system requirements including proper connection of ductwork and equipment.

Runout Fittings: Runout fittings shall be used to make round to rectangular duct connections. Use 45° time and a half square to round fittings. Provide with locking quadrant dampers where

balance is involved. Provide with insulation guard where insulated duct is involved. Duct Sealing Compound: Duct sealing compound shall be 3M brand number EC-750 or Duro-Dyne S-2. This material shall be used in making up duct joints or in water proofing, caulking plenums, etc.

Acoustical Lining: Acoustical lining in ducts shall be 1" thick, 1-1/2 pound density, coated, flexible glass fiber type, set in adhesive and impaled on weld studs spaced not more than 12" on centers and secured with lock washers. Airstream surface faced with black coated matte. Acoustical lining shall completely line the ducts. Lining shall have a fire and smoke hazard rating not exceeding 20-50-50. Owens-Corning, Johns-Manville, Certainteed.

All joints, edges and/or surface breaks in the coating of the acoustical lining shall be pointed up to a smooth surface with adhesive.

DeZurik Corp.

Manufacturer: Subject to compliance with requirements, provide gas cocks of one of the

Jenkins Bros.

NIBCO, Inc. Powell (The Wm.) Co.

Rockwell International; Flow Control Div. Stockham Valves and Fittings.

Walworth Co.

Lukenheimer Co.

EQUIPMENT SELECTION The contractors shall select equipment based on the drawing schedules and requirements of these specifications. Any and all substitutions shall be presented during submittals for approval.

FIXTURES AND TRIM: The model numbers listed below have been carefully selected to help bidders in the submittal process of selecting fixtures and trim. The completeness and accuracy of these numbers must be verified during the bidding process. Any discrepancies between the model numbers and the fixture, or trim descriptions noted by a manufacturer during the bidding process will be reported to the Architect / Engineer for clarification. Clarifications will be made a part of the contract through an addendum only. The contractor is responsible for reporting any clarifications before the bid date as required in this specification.

- Water Closets: (Flush Valve Type-Floor Mounted)
 - 1. (P-1) Juvenile Use Fixture: (1.6 gal./flush, siphon jet)
 - Floor mounted, vitreous china, elongated bowl, and top spud. Mounted so top of seat is 10-1/2" above finished floor.
 - Approved Manufacturers: (1) Kohler - "Primary" No. K-96064 with K4686 Seat
 - (2) American Standard

(3) Eljer (4) Crane

2. (P-1) Flush Valve: (1.6 gal./flush)

a. Exposed, battery powered, automatic sensor operated, 6 volt DC input, low battery indicator light, furnish with initial battery(s), polished chrome plated flush valve, diaphragm operated, 1.6 gallon per flush, screw driver operated angled stop valve with back-check feature, vacuum breaker, wall escutcheon, spud escutcheon, fixture spud securing nut for 1" top spud.

Approved Manufacturers: (1) Sloan "Optima Plus" No. 8113-1.6

(2) Delany "Impulse No. I-1402-1.6 (3) Zurn "ZER6000 Series"

B. Lavatory:

(P-2) ADA Fixture Wall mounted, 18" x 20", vitreous china, front overflow, faucet holes on 4" centers, concealed arm carrier, mounted so bottom of lavatory is 29" above finished floor, furnish

and install pre-formed insulation around P-trap and water supplies meet 25/50 flame/smoke rating. Approved Manufacturers:

Kohler "Kingston" No. K-2005 American Standard "Lucerne" No. 0355.012 Eljer "Delwyn" No. 051-1644.

(P-2) Faucet: (ADA Fixture) Infrared metering control, single tempered water supply, 4" center set mounting, auto 30 second operation, battery powered, 6 volt DC input, low battery indicator light, furnish with initial battery(s), Provide shatter resistant shield on sensor, chrome plated, 0.5 gpm flow rate.

Approved Manufacturers:

Duct Liner Adhesive: Comply with ASTM C 916 "Specifications for Adhesives and Duct

Thermal Insulation" Duct Liner Fasteners: Comply with SMACNA HVAC Duct Construction Standards, Article

Ductwork Support Materials: Except as otherwise indicated, provide hot-dipped galvanized steel fasteners, anchors, rods, straps, trim and angles for support of ductwork.

GRILLES AND DIFFUSERS:

A. Ceiling Supply Diffuser (S-1): Krueger series 1400A with adjustable tabs for directional air flow control, square face, round neck, four-way deflection, anti-smudge design, removable inner core, all steel construction, appropriate mounting frame, white baked enamel finish, sponge rubber gasket, size as indicated

Ceiling Supply Diffuser (S-2): Krueger series SH, square face, one, two three or four way blow as required. Square neck, anti-smudge border, all steel, white baked on enamel, size as indicated on drawings.

Perforated Return Register / square neck (R-1): Krueger series 6490. Concealed hinge frame, sponge rubber gasket, white baked-on enamel, filter holding frame, color as selected by architect, size as indicated on

MECHANICAL CONTROLS:

Color coded and No. 16 and No. 12 AWG Type TWN, TFN, or THHN, stranded.

Thermostat Cable - 12 conductor or 8 conductor, 18AWG solid copper wire, insulated with high density polyethylene. Conductors parallel enclosed in brown PVC jacket (No 22 AWG cable allowed).

Programmable low voltage type provided with automatic change over feature for both heating and cooling stages, seven day program with two starts and stops per day, and provisions for damper operators.

Approved Manufacturer & Model -Venstar T2900.

TRANSFORMER: 120/24 volt, 38VA Honeywell AT72D1188, cover mount 120/24 volt, 50VA Honeywell AT87A1106, foot mount

AIR SYSTEMS BALANCE:

Before any adjustments are made, check the systems for such items as dirty filters, duct leakage, filter leakage, damper leakage, equipment vibrations, correct damper operations, etc. Adjust all fan systems. major duct sections, registers, diffusers, etc., to deliver design air quantities within +5%. Individual air outlets, when one of three or more serve a space may have a tolerance of 10 percent from the average. Design static pressure is based on filters approximately 50% loaded with dirt. Pressure drop across filters during balancing shall be simulated to that condition. After balancing is completed check motor amperage with the filters clean.

Adjust supply, and recirculation air systems towards air quantities shown on drawings. Establish a proper relationship between supply and exhaust. Follow proportional balance procedures outlined by AABC and/or SMACNA for such work.

Distribution system shall be further adjusted to obtain uniform space temperatures free from objectionable drafts and noise within the capabilities of the system.

Sloan EBF-650 with BDM mixing valve option.

Or engineer approved equivalent.

Pre-formed foam or fiberglass insulation with two piece white PVC snap on cover with velcro closure, to fit P-trap and hot and cold water stops and supplies, meet 25/50 flame/smoke rating.

Buckaroos, Inc.

Truebro

Chrome plated quarter turn cast brass angle stop, brass stem, gasketed seat, flexible,

(2) Eastman McGuire (3)

17 gauge, tubular brass, chrome plated and chrome escutcheons.

Approved Manufacturers: Dearborn

(3) Jameco Sanitary Dash

Approved Manufacturers:

(P-3) Preparation Sink: Single compartment, counter mounted, 14" x 14" x 7-1/2" deep, 18 gauge type 304

Approved Manufacturers: Just No. SL-2017-A-GR Elkay No. LR-1720

(P-3) Faucet: Underdeck mounted, 8" high rigid gooseneck spout, 2.5 gpm vandal proof aerator, 4"

(1) Chicago Faucet No. 786-HZFCCP.

(P-3) Supplies and Stops:

Chrome plated quarter turn cast brass angle stop, brass stem, gasketed seat, flexible chrome plated copper riser, chrome plated escutcheon, compression type connections.

Approved manufacturers: (2)

(P-3) Outlet Fitting and Tailpiece: Approved Manufacturers:

(P-2) Pre-formed Insulation and Protective Cover:

Approved Manufacturer:

or an engineer approved equivalent.

(P-2) Supplies with Stops: chrome plated copper riser, chrome plated escutcheon, compression type connections.

Approved Manufacturers: Brass Craft (1)

(P-2) P-Trap:

(2) McGuire

(P-2) Strainer: Drain with grid pattern strainer, cast brass, chrome plated. Provide offset type drain as required to maintain ADA clearances.

Kohler K-7715 (Offset type No. K-13885)

(2) Jameco

(3) Sanitary Dash McGuire

stainless steel, 3 faucet holes on 4" centers, self rimming, sound deadened.

wing handles, supplies on 8" centers. Approved Manufacturers:

(2) T & S Brass

Brass Craft Eastman (3) McGuire

Chrome plated 17 gauge cast brass. (1) Elkay No. LK-53

No. 49472 NORMAN

Iechanical Consulting

Engineers Cunning & Associated 4685 W. 11600 N. Tremonton, UT 84337 Email: cunningassoc@frontier.com Ph: (801) 726-5047 Fax: (435) 257-009

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4222 10/25/22 MECHANICAL / **PLUMBING SPECIFICATIONS**

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Project Number Lesue Date

THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT

				ELECTRICAL SYMBOLS				
NOTE: SYMBO	OLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PRO	JECT. MOUNTI	NG HEIGHTS A	RE TO THE CENTER OF THE DEVICE AND ARE TYPICAL.			DASHED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ET	ГС.
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	ELECTRICAL WIRING			LIGHTING CONTROL			AUDIO / VIDEO	,
	CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.	N/A	\$	SINGLE POLE SWITCH	+46"	10	TELEVISION OUTLET	AS NOTED
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	N/A	\$3	3-WAY SWITCH	+46"	V	VOLUME CONTROL	+46"
	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR	N/A	\$4	4-WAY SWITCH	+46"	S	SPEAKER	CEILING
A-1.3	BRANCH CIRCUIT HOMERUNS TO PANEL W/PANEL & CIRCUIT NUMBER DESIGNATIONS.	N/A	\$ _P	SWITCH WITH PILOT LIGHT	+46"	M	MICROPHONE JACK	+16"
7(1,0	CONDUIT RISER UP	N/A	SD	DIMMER SWITCH	+46"	A	AUXILIARY JACK	+16"
•	CONDUIT RISER DOWN	N/A	\$ _K	KEYED SWITCH	+46"	(C)	INTERCOM STATION	+46"
	CONDUIT STUB (CAP CONDUIT)	AS NOTED	\$ _{тм}	DIGITAL TIMER SWITCH	+46"	2	BELL	+84"
	CABLE TRAY	AS NOTED	\$ _T	MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED		CHIME	+84"
IBI	BUS DUCT	AS NOTED	1	LOW VOLTAGE SWITCH	+46"		FIRE ALARM	704
		ASNOTED	\$ _{LV}					SEE
	ELECTRICAL POWER		<u>'</u>	CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT) SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION.	+46"		FIRE ALARM MANUAL PULL STATION	DETAIL SEE
<u> </u>	JUNCTION BOX	AS NOTED	Ю	MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY'	+46"		FIRE ALARM HORN/STROBE	DETAIL SEE
	DUPLEX RECEPTACLE	+16"	1	OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING	Z Z	FIRE ALARM HORN/STROBE WITH GUARD	DETAIL SEE
	QUAD RECEPTACLE	+16"	TS	TIME SWITCH	+60"	₩P	FIRE ALARM HORN/STROBE WATERPROOF	DETAIL SEE
⊕	SPLIT WIRED DUPLEX RECEPTACLE	+16"	LC	LIGHTING CONTACTOR	+60"		FIRE ALARM STROBE	DETAIL
WP	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI	+16"	P	PHOTOCELL	AS NOTED	0	SMOKE DETECTOR	CEILING
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"		LIGHTING		O ₃	SMOKE DETECTOR BATTERY-BACKED	CEILING
EWC	RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"		LINEAR FIXTURE (TYPICAL)	CEILING	O _D	DUCT SMOKE DETECTOR	IN DUCT
€	EQUIPMENT RECEPTACLE	+16"	EM	LINEAR EMERGENCY FIXTURE (TYPICAL)	CEILING	Q _E	SMOKE DETECTOR (ELEVATOR RECALL)	CEILING
(A)	SPECIAL PURPOSE RECEPTACLE	+16"	¤	SURFACE MOUNTED FIXTURE	CEILING	0	HEAT DETECTOR - C02	CEILING
=	DUPLEX RECEPTACLE FLOOR	FLOOR		RECESSED FIXTURE	CEILING	0	GAS DETECTOR	+16"
⊕	QUAD RECEPTACLE FLOOR	FLOOR	OH	WALL MOUNTED FIXTURE	AS NOTED	<u> </u>	DOOR HOLDER	AS NOTED
•	FIRE RATED POKE THROUGH	FLOOR	• +	WALL MOUNTED EMERGENCY EGRESS FIXTURE	AS NOTED	Ť	PRESSURE SWITCH	AS NOTED
	POWER/TELEPHONE POLE	FLOOR		LINEAR STRIP	CEILING	\$	FIRE ALARM FLOW SWITCH	AS NOTED
	MULTI-OUTLET WIREWAY	+46"	<u> </u>	TRACK LIGHTING	CEILING	9	FIRE ALARM TAMPER SWITCH	AS NOTED
	ELECTRICAL CONNECTIONS		8	EMERGENCY LIGHTING UNIT	+84"		FIRE ALARM FIREFIGHTER PHONE	+46"
□	NON-FUSED DISCONNECT SWITCH	TOP AT 6'-0"	FXX	FIXTURE TYPE SYMBOL (ATTACHED TO FIXTURE SYMBOL)	N/A	СМ	CONTROL MODULE	AS NOTED
▶	FUSED DISCONNECT SWITCH	TOP AT 6'-0"	 	POST TOP AREA LIGHT POLE & FIXTURE	AS NOTED	MM	MONITOR MODULE	AS NOTED
⊠₁	MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED	TOP AT 6'-0"	<u> </u>	AREA LIGHT POLE AND FIXTURE (HEAD QTY AS SHOWN ON PLAN)	AS NOTED	FSD	FIRE/SMOKE DAMPER	AS NOTED
X-	MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED	TOP AT 6'-0"	-\$	BOLLARD FIXTURE	GROUND	R	FIRE ALARM RELAY	AS NOTED
	MOTOR STARTER ONLY	TOP AT 6'-0"	∅€	FLOOD OR SPOT FIXTURE	AS NOTED	GAA	FIRE ALARM GENERATOR ANNUNCIATOR	TOP AT 6'-0"
VFD	VARIABLE FREQUENCY DRIVE	+78"	⊢ ⊗	WALL MOUNTED EXIT LIGHT (SINGLE FACE)	+84"	FST	FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED
\mathcal{O}	MOTOR CONNECTION	AS NOTED	H ②	WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+84"	FACP	FIRE ALARM CONTROL PANEL	TOP AT 6'-0"
	ELECTRICAL DISTRIBUTION		⊗	CEILING MOUNTED EXIT LIGHT (SINGLE FACE)	CEILING	FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL	TOP AT 6'-0"
Т	TELEPHONE COMPANY PEDESTAL	AS NOTED	•	CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)	CEILING	_	SECURITY	1 , ,
GS	POWER COMPANY GROUND SLEEVE	AS NOTED		TELECOMMUNICATIONS	1		SECURITY SYSTEM DOOR CONTACT	DOOR JAMB
	POWER COMPANY SITE TRANSFORMER	AS NOTED	4	TELEPHONE OUTLET	+16"	© ₂	SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED
	HIGH VOLTAGE (277/480 VOLT) PANELBOARD	TOP AT		COMPUTER DATA OUTLET	+16"	V2 KP	SECURITY SYSTEM KEYPAD ARM/DISARM	+46"
_	LOW VOLTAGE (120/208 VOLT) PANELBOARD	6'-0" TOP AT 6'-0"	4	VOICE / DATA OUTLET	+16"	(3)	SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED
	DRY TYPE TRANSFORMER	AS NOTED		TELEPHONE OUTLET FLOOR	FLOOR	₩ <u></u>	SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED
	DISTRIBUTION SWITCHBOARD	AS NOTED		COMPUTER DATA OUTLET FLOOR	FLOOR	REX	REQUEST TO EXIT MOTION DETECTOR	AS NOTED
	TELEPHONE AND/OR DATA TERMINAL BOARD	AS NOTED	7	NETWORK AND VOICE OUTLET FLOOR	FLOOR	(M)	SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED
	ELECTRICAL DEVICES	, TO NOTED		REFERENCE SYMBOLS	LOUR	(G)	SECURITY SYSTEM AREA MOTION SENSOR SECURITY SYSTEM GLASS BREAK SENSOR	AS NOTED AS NOTED
•	PUSHBUTTON	+46"	XX X	FEEDER TAG (ONE LINE DIAGRAM)	N/A	CR	SECURITY SYSTEM CARD READER	+46"
P	STOP/START STATION	+46"		REVISION TAG INDICATOR	N/A	AK	SECURITY SYSTEM CARD READER SECURITY SYSTEM DOOR ACCESS KEYPAD	+46"
l spo	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+46"		DETAIL INDICATOR: TOP DETAIL IDENTIFICATION			SECURITY SYSTEM DOOR ACCESS RETPAD SECURITY SYSTEM CCTV CAMERA	AS NOTED
● _{EPO}		+46"	X-XX	BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED. MECHANICAL EQUIPMENT SYMBOL	N/A			
① N-	LINE VOLTAGE THERMOSTAT NURSE CALL RED/RATH STATION				N/A	DVR	DIGITAL VIDEO RECORDER SECURITY SYSTEM COTY MONITOR	AS NOTED
N _r ,	NURSE CALL BED/BATH STATION	+46"	X	KEYED NOTE REFERENCE	N/A	MON	SECURITY SYSTEM CCTV MONITOR	AS NOTED TOP AT
N NUDO	NURSE CALL LIGHT	+84" TOP AT				SERT	SECURITY SYSTEM PANEL	6'-0"
NURS	NURSE CALL STATION PANEL	6'-0"				PS	POWER SUPPLY LOW VOLTAGE	AS NOTED

ABBREVIATIONS								
AFF ABOVE FINISHED FLOOR	(D) DEMOLISH/DELETE	GND GROUND	OFOI OWNER FURNISHED OWNER INSTALLED					
AFP ARC FAULT PROTECTOR	E EMERGENCY	GRC GALVANIZED RIGID CONDUIT	PNL PANEL					
AIC AMP INTERRUPTING CURRENT (SYMMETRICAL)	(EX) EXISTING	IG ISOLATED GROUND	(R) RELOCATE					
AL ALUMINUM	EPO EMERGENCY POWER OFF	MCB MAIN CIRCUIT BREAKER	(RM) REMOVE AND RETURN TO OWNER					
BG BELOW GRADE	EWC ELECTRIC WATER COOLER	MCC MOTOR CONTROL CENTER	TR TAMPER RESISTANT					
C CONDUIT	EWH ELECTRIC WATER HEATER	MH MANHOLE	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR					
CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED	(F) FUTURE	MLO MAIN LUGS ONLY	TYP TYPICAL					
CKT CIRCUIT	FA FIRE ALARM	(N) NEW	UNO UNLESS NOTED OTHERWISE					
CO CONDUIT ONLY	FLA FULL LOAD AMPS	NIC NOT IN CONTRACT	WP WEATHER PROOF					
CU COPPER	GFI GROUND FAULT INTERRUPTER	NL NIGHT LIGHT	XMR TRANSFORMER					
C/W COMPLETE WITH	GFP GROUND FAULT PROTECTOR	OFCI OWNER FURNISHED CONTRACTOR INSTALLED						

ELECTRICAL SPECIFICATIONS

SECTION 16000 - GENERAL PROVISIONS

WORK CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN IN THE CONTRACT DOCUMENTS AND SPECIFIED IN DIVISION 16.

INCLUDE ALL PARTS AND LABOR, WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS, SUCH ITEMS INCLUDE NUTS, BOLTS, ANCHORS, BRACKETS, SLEEVES, OFFSETS IN CONDUIT, FITTINGS, RELAYS, ETC.

REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS AND SPECIFICATIONS.

INCLUDE STATE AND LOCAL SALES TAXES IN THE BID, KEEP ACCURATE RECORDS OF THESE TAXES AND FURNISH SUCH RECORDS TO THE OWNER

MEET OR EXCEED ALL CURRENT APPLICABLE CODES, ORDINANCES AND REGULATIONS FOR ALL INSTALLATIONS. PROMPTLY NOTIFY THE ENGINEER IN WRITING, IF THE CONTRACT DOCUMENTS APPEAR TO CONFLICT WITH GOVERNING CODES AND REGULATIONS CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COSTS FOR CORRECTING NON-COMPLYING WORK

HIGHER QUALITY OF WORKMANSHIP AND MATERIALS INDICATED IN THE CONTRACT DOCUMENTS TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS.

INSTALLED WITHOUT NOTIFYING THE ENGINEER.

- THE TERMS DEFINED BELOW APPLY TO ALL WORK INCLUDED IN DIVISION 16.
- a. THE WORK AS DEFINED IN THE 1997 AIA DOCUMENT A201: "THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED. AND INCLUDES ALL OTHER LABOR. MATERIALS. EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE
- CONTRACTOR TO FULFILL THE CONTRACTORS OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT". ADJACENT AREAS. b. FURNISH - TO OBTAIN IN NEW CONDITION READY FOR INSTALLATION
- INTO THE WORK. c. INSTALL - TO STORE, SET IN PLACE, CONNECT AND PLACE INTO
- OPERATION INTO THE WORK. d. PROVIDE - TO FURNISH AND INSTALL.

DEFINED ABOVE.

GOVERNING AGENCIES.

- e. CONNECT TO BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENT INCLUDING NECESSARY SWITCHES, OUTLETS, BOXES,
- f. CONDUIT INCLUDES IN ADDITION TO CONDUIT, ALL FITTINGS, PULL BOXES, HANGERS AND OTHER SUPPORTS AND ACCESSORIES RELATED
- g. CONCEALED HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAWL
- SPACES OR BURIED. h. EXPOSED - NOT INSTALLED UNDERGROUND NOR CONCEALED AS

THE DRAWINGS AND SPECIFICATIONS CONSTITUTE THE CONTRACT DOCUMENTS. ANY ITEM NOTED IN THE SPECIFICATION OR SHOWN ON THE

DRAWINGS IS INCLUDED IN THE CONTRACT DOCUMENTS. ALL ELECTRICAL DETAILS AND DRAWINGS ARE DIAGRAMMATIC, UNLESS SPECIFICALLY NOTED. FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE

ENGINEER OF ANY CONFLICTS OR DISCREPANCIES, IN WRITING, PRIOR TO

INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED WITH THIS WORK IN ACCORDANCE WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER

DO NOT REMOVE OR DISTURB ANY ASBESTOS CONTAINING MATERIALS FROM THE PROJECT. IMMEDIATELY STOP WORK AND NOTIFY THE TENANT IF ASBESTOS CONTAINING MATERIALS ARE SUSPECTED.

BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED. EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED NOR BIDDERS LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHICH COULD HAVE BEEN DISCOVERED OR REASONABLY

CONDUITS, PIPES, DUCTS, LIGHTS, DEVICES, SPEAKERS, ETC., SHOWN ON THE DRAWINGS AS EXISTING HAVE BEEN BASED ON THE EXISTING PLANS AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE, LOCATION AND CONDITION OF SUCH FACILITIES PRIOR TO

CONSULT THE DRAWINGS AND SPECIFICATIONS OF MECHANICAL AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH OTHER TRADES. VERIFY DIMENSIONS AND CONDITIONS (I.E., FINISHED CEILING HEIGHTS, FOOTING AND FOUNDATION FLEVATIONS BEAM DEPTHS, ETC.) WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT CANNOT BE RESOLVED. IN THE FIELD, BY AFFECTED TRADES. REPLACEMENT OF WORK DUE TO LACK OF COORDINATION AND FAILURE TO VERIFY EXISTING CONDITIONS WILL BE COMPLETED AT NO

INSTALL ALL CONDUIT, CABLE TRAY, BUSDUCT, EQUIPMENT, ETC. ALLOWING PROPER CODE AND MAINTENANCE CLEARANCES AND TO AVOID BLOCKING PASSAGEWAYS AND ACCESS PANELS.

WHERE WORK MUST BE REPLACED DUE TO FAILURE OF THE CONTRACTOR TO VERIFY THE CONDITIONS EXISTING ON THE JOB, SUCH REPLACEMENT MUST BE ACCOMPLISHED AT NO COST TO THE OWNER. THIS APPLIES TO SHOP FABRICATED WORK AS WELL AS TO WORK FABRICATED IN PLACE

THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE INSTALLATION MAY BE REQUESTED BY THE ENGINEER THE CONTRACTOR SHALL MAKE ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO THE PROPER INSTALLATION AND OPERATION WITHIN THE INTENT OF THE CONTRACT DOCUMENTS. THIS DOES NOT INCLUDE WORK ALREADY

OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE PERSON FURNISHING THE EQUIPMENT. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE IS AS BINDING AS IF CALLED FOR IN BOTH.

INCLUDE THE BETTER QUALITY, GREATER QUANTITY OR HIGHER COST FOR AN ITEM OR ARRANGEMENT WHERE A DISAGREEMENT EXISTS IN THE DRAWINGS AND SPECIFICATIONS.

GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY SSUANCE OF THE FINAL CERTIFICATE BY THE OWNER.

DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE OWNER. INCLUDE DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS.

REPLACE ALL RECEPTACLES, SWITCHES, COVERPLATES, ETC. DAMAGED BY ANY CONTRACTOR DURING THE COURSE OF CONSTRUCTION.

MATERIALS FURNISHED FOR THE TEMPORARY LIGHT AND POWER SYSTEM REMAIN CONTRACTORS PROPERTY, REMOVE WHEN THERE IS NO LONGER ANY NEED FOR TEMPORARY LIGHT AND POWER.

COORDINATE/SCHEDULE ALL WORK WITH THE OWNER TO MINIMIZE ANY DISRUPTIONS. CONFINE ALL INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY CONNECTIONS IF REQUIRED TO PROVIDE CONTINUITY OF SERVICE.

INSPECT ALL AREAS AFFECTED BY THE INTERRUPTIONS AND RETURN ALL AUTOMATICALLY CONTROLLED EQUIPMENT, ELECTRICALLY OPERATED EQUIPMENT TO THE SAME OPERATING CONDITION PRIOR TO THE INTERRUPTION.

DO NOT DISTURB NORMAL USE OF THE FACILITY, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION AREA, KEEP WALKS, DRIVEWAYS, ENTRANCES. ETC. FREE AND CLEAR OF EQUIPMENT, MATERIAL AND DEBRIS.

STORE ALL EQUIPMENT AND MATERIAL IN A PLACE AND MANNER THAT MINIMIZES CONGESTION AND IS APPROVED BY THE OWNER. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE

PROVIDE THE HIGHEST QUALITY WORKMANSHIP AND PERFORM ALL WORK ONLY BY SKILLED MECHANICS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INSTRUCTIONS AND CURRENT NECA STANDARDS.

THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS, BEFORE OR AFTER INSTALLATION.

PERFORM ALL CUTTING AND PATCHING NECESSARY TO WORK, UNLESS SPECIFICALLY DELEGATED TO THE GENERAL CONTRACTOR. OBTAIN SPECIAL PERMISSION FROM THE LANDLORD BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIAL PERFORM ALL PATCHING IN SUCH A MANNER AS TO LEAVE NO VISIBLE TRACE AND RETURN THE AREA AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PERFORM ALL PATCHING BY WORKERS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED, INFERIOR WORK WILL NOT BE

PATCH ALL HOLES LEFT AS A RESULT OF DEMOLITION OF ELECTRICAL EQUIPMENT AND DEVICES. PREVENT THE SPREAD OF DUST, DEBRIS, AND OTHER MATERIAL INTO

INSTALLATION TO ITS ORIGINAL CONDITION, REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURERS RECOMMENDATIONS FOR FINISH EQUAL TO

REFINISH ALL ELECTRICAL FOUIPMENT DAMAGED DURING SHIPPING AND/OR

AFTER TESTS HAVE BEEN MADE AND ACCEPTED. CLEAN LIGHT FIXTURES. PANELS AND OTHER EQUIPMENT INSTALLED BY THE CONTRACTOR LEAVING. THE ENTIRE WORK AREA IN A CLEAN AND COMPLETE WORKING ORDER.

OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL INSPECTION AND OWNER INSTRUCTIONS, NOTIFY THE ENGINEER, IN WRITING, THAT ALL SYSTEMS HAVE BEEN TESTED AND ARE FUNCTIONING AND OPERATING PROPERLY.

CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT OR MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER.

PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS, INCLUDING TELEPHONE AND DATA SYSTEMS, IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH

EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS, NOTIFY AND OBTAIN PERMISSION FROM OWNER/ENGINEER AT LEAST 24 HOURS BEFORE PARTIALLY OR DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

EXISTING TELEPHONE, DATA, CCTV & SECURITY SYSTEM MAINTAIN EXISTING SYSTEMS IN SERVICE.

DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER AND THIS SECTION, AND AS INDICATED ON THE DRAWINGS. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. PROVIDE SUPPORTS FOR ALL EXISTING ELECTRICAL EQUIPMENT THAT WAS SUPPORTED PREVIOUSLY BY DEMOLISHED WALLS, FLOORS, CEILING OR OTHER STRUCTURES, PROVIDE NEW SUPPORTS FROM STRUCTURAL MEMBERS NOT SLATED FOR DEMOLITION, PRIOR TO ANY DEMOLITION.

OWNER RESERVES THE RIGHT OF FIRST REFLISAL TO OBTAIN MATERIAL SHOWN TO BE REMOVED UNDER THIS CONTRACT. ITEMS NOT RETAINED BY THE OWNER BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE

EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED. RELOCATE AND REROUTE CONDUIT AND WIRING AS REQUIRED FOR CONDUIT CONCEALED IN WALLS OR STRUCTURE BEING ALTERED AS PART OF THE REMODELING. MAINTAIN CONTINUITY TO ALL DEVICES IN AND DOWNSTREAM OF REMODELED WORK.

REROUTE EXISTING RACEWAY AND WIRING, WHICH IS EXPOSED DUE TO REMOVAL OF EXISTING CONSTRUCTION. CONCEAL NEW RACEWAY AND WIRING AND MAINTAIN OPERATION.

SECTION 16050 - BASIC MATERIALS AND METHODS

CONDUIT INTO PANELBOARD.

ENCASE ALL CONDUCTORS IN A CONTINUOUS RACEWAY SYSTEM. PROVIDE PULL AND JUNCTION BOXES AS REQUIRED BY THE NEC. SIZE ALL RACEWAY PER THE NEC WITH OVERSIZED CONDUITS AS INDICATED. PROVIDE JUNCTION BOXES OR GUTTER AT BRANCH PANEL AND ROUTE EMT

PROVIDE EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.

RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRMLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS, PROVIDE TWO (2) HOLE MOUNTING STRAPS. MINIMUM THREE (3) FEET ON CENTER. FOR ALL SURFACE CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR, PLACE CONDUITS AT LEAST 8" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC HOT WATER LINES.

PROVIDE GALVANIZED CODE GAUGE STEEL JUNCTION AND PULL BOXES WITH SCREW ON COVERS OF TYPE, SHAPE AND SIZE REQUIRED TO SUIT EACH INSTALLATION. PROVIDE GASKETING IN DAMP AND DUSTY

PROVIDE 4" BOXES THROUGHOUT. PROVIDE 3-1/2" DEEP BOXES WHERE INSTALLED IN MASONRY, 2-1/2" MINIMUM ELSEWHERE. VAPOR TIGHT GANG MUD OR TILE RING FOR SINGLE DEVICES.

COORDINATE THE LOCATION OF ALL OUTLETS WITH MECHANICAL DRAWINGS BEFORE INSTALLATION. PROVIDE WIRE AND CABLE WITH INSULATION VOLTAGE RATING EQUAL TO OR GREATER THAN THE APPLIED SYSTEM VOLTAGE. PROVIDE SOLID OR

STRANDED COPPER CONDUCTORS WITH TYPE THWN. THHN. OR XHHV INSULATION FOR NO. 12 AWG AND NO. 10 AWG CONDUCTORS. PROVIDE MINIMUM NO. 12 AWG CONDUCTOR SIZE. UNLESS NOTED OTHERWISE, USE THE MINIMUM CONDUCTOR SIZE WHEN NO SIZE IS INDICATED. ALL CONDUCTORS TO BE COLOR-CODED.

SECTION 16501 - BUILDING LIGHTING

PROVIDE LIGHTING FIXTURES AS SCHEDULED C/W HOUSING LAMPS, LAMP HOLDERS, REFLECTORS, BALLASTS & WIRING. FLUORESCENT LAMP BALLAST FOR T8 & T5 LAMPS SHALL BE ELECTRONIC CBM CERTIFIED W/ THD LESS THAN 20% RAPID START

SUPPORT ALL RECESSED LIGHTING FIXTURES W/ 4 # 12GA. WIRES INDEPENDENT FROM CEILING SUPPORT SYSTEM.

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS WIRING DEVICES OCCUPANCY SENSORS CONTACTORS TIME CLOCKS PHOTOCELLS RELAYS SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM. LIGHTING CONTROLS, SECURITY SYSTEMS. SOUND SYSTEMS ETC.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURES CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN AND SPECIFICATION.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
- ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY OR SERVICE COMPANIES FOR BUT NOT LIMITED TO POWER, FELEPHONE, FIBER OPTIC & INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH IN OF ELECTRICAL DEVICE JUNCTION BOXES.
- CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
- ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
- . VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- 2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
- ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE
- 4. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
- 5. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE
- SATISFACTION OF THE ARCHITECT AND ENGINEER. 16. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND

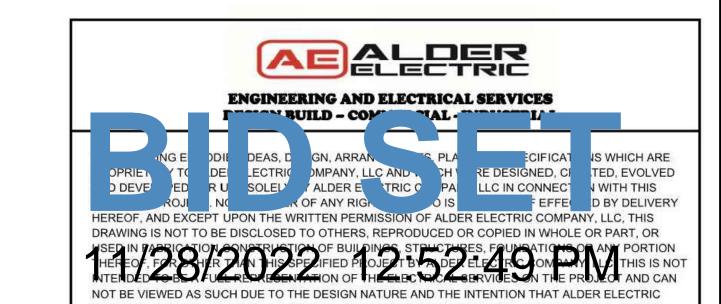
ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.

NATIONAL CODES, STANDARDS AND ORDINANCES.

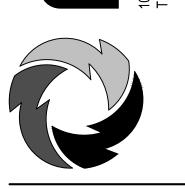
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE
- 18. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT. ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL
- ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH UL LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
- 0. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY
- WIRE FOR GENERAL USE SHALL BE COPPER 75° C RATED. WIRING FOR HID FIXTURES WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
- 2 CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAG DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
- 23. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
- 24. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING. BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.
- 25. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
- 26. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR
- ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
- 28. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 29. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.

DRAWING INDEX

ELECTRICAL SYMBOLS AND NOTES ELECTRICAL PLAN ELECTRICAL SCHEDULES PANEL SCHEDULES ELECTRICAL DETAILS







DR

110

4

11/1/2022 SEE DWG. SCALE.. DRAWN.....

JOB NO....... 13133.03 SHEET TITLE

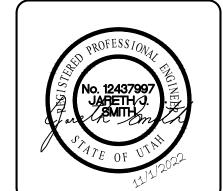
CHECKED....

ELECTRICAL SYMBOLS AND NOTES

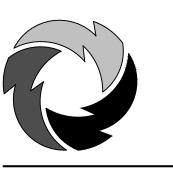
SHEET NO.

GENERAL NOTES:

- A. LIGHTING IN ALL SPACES HAS BEEN DESIGNED IN ACCORDANCE WITH THE STATE HEALTH DEPARTMENT CODE R392-200-8 TABLE 1.
- B. FOR ALL 125-VOLT 15- AND 20-AMPERE RECEPTACLES IN CHILD CARE AREAS SUCH AS ALL CLASSROOMS, CORRIDORS, RESTROOMS, GYMNASIUM, LIBRARY, ETC. PROVIDE A LISTED TAMPER-RESISTANT RECEPTACLE PER NEC 406.14.







JNT 4125 I SOUTH

CHECKED.....JJS

JOB NO........13133.03

SHEET TITLE

ELECTRICAL PLAN

SHEET NO.

E201



A. FURNISHED, INSTALLED AND FINAL CONNECTION BY THE

B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION,

D. FURNISHED, INSTALLED AND FINAL CONNECTION UNDER

FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR. C. FURNISHED UNDER ANOTHER DIVISION, INSTALLED AND

FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL CONTRACTOR.

ANOTHER DIVISION.

REFERENCE NOTES:

NON-FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH

BREAKER IN ENCLOSURE

FUSED DISCONNECT SWITCH WITH SHUNT TRIP MANUAL STARTER WITH THERMAL OVERLOAD

MANUAL STARTER

MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION

MAGNETIC STARTER/FUSED DISCONNECT COMBINATION MAGNETIC STARTER/MOTOR CIRCUIT PROTECTOR COMBINATION

VARIABLE SPEED DRIVE

REDUCED VOLTAGE STARTER

DIRECT CONNECTION

RECEPTACLE/SPECIAL PURPOSE OUTLET ETC. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE

MAXIMUM CIRCUIT AMPS (MCA)

FULL LOAD CURRENT

PROVIDE WITH NEMA 1 ENCLOSURE PROVIDE WITH NEMA 3R ENCLOSURE

VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL

DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH IN.

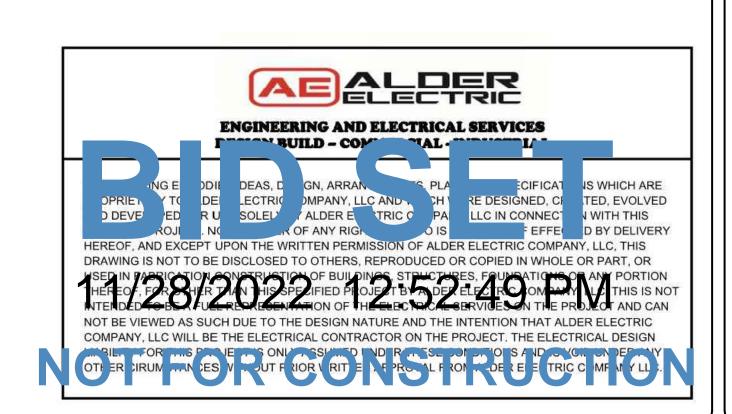
ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.

ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.

			LUMINAIF	RE SCHEDU	LE				
LUMINAIRE	LUMINAIRE	LUMINAIRE	DESCRIPTION	LAMPS			LUMI	NAIRE	REMARKS
NUMBER	MANUFACTURER	CATALOG #	DESCRIPTION	TYPE	ССТ	VOLTS	WATTS	MOUNTING	REIVIARAS
T1	LITHONIA LIGHTING	EPANL 2X4 4800LM 80CRI 40K MIN1 EZT MVOLT PWS1836	CORRIDOR 2X4	5119 LUMEN LED	4000K	UNV	45	GRID	
T1N	LITHONIA LIGHTING	EPANL 2X4 4800LM 80CRI 40K MIN1 NLIGHT MVOLT PWS1836	CLASSROOM 2X4	5119 LUMEN LED	4000K	UNV	45	GRID	
T2	LITHONIA LIGHTING	LDN6 40/10 LO6AR LSS MVOLT EZ1 EL	RECESSED CAN LIGHT	925 LUMEN LED	4000K	UNV	10.4	RECESSED	FIXTURE INCLUDES FACTORY INSTALLED EMERGENCY BATTERY
ТЗ	LITHONIA LIGHTING	SBL4 4000LM 80CRI 40K MIN1 ZT MVOLT	1X4 IN HARD LID	3994 LUMEN LED	4000K	UNV	32.4	HARD LID	
T14A	LITHONIA LIGHTING	ARC2 LED P2 40K	EXTERIOR WALL PACK	LED	4000K	UNV	16	WALL	
EX5	ISOLITE	RLP-G-U-WH-MTEB	EXIT SIGN WITH EMERGENCY LIGHT	GREEN LED		UNV	2.5	UNV	
EX9	LITHONIA LIGHTING	AFF OEL DDBTXD UVOLT LTP SDRT FCT CW	TEAR DROP EXTERIOR EGRESS LIGHT	635 LUMEN LED	4000K	UNV	11.6	UNV	

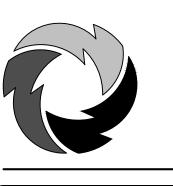
TAG	DESCRIPTION	FUNCTION	LOCATION	REMARKS
OS1	OCCUPANCY / VACANCY WALL SWITCH SENSOR	MANUAL ON / AUTO OFF 30-MINUTE VACANCY TIMEOUT	RESTROOM	
nOS	OCCUPANCY / VACANCY LOW-VOLTAGE, PASSIVE INFRARED nLIGHT CEILING SENSOR	MANUAL ON / AUTO OFF 15-MINUTE VACANCY TIMEOUT	CLASSROOM	
nL	nLIGHT nPODM 4S DX [COLOR] 4-BUTTON ON/OFF TOGGLE OR QUAD SCENE CONTROLLER WITH DIMMING	ON / OFF/ RAISE / LOWER	CLASSROOM	

AG	DESCRIPTION	FUNCTION	LOCATION	REMARKS
OS1	OCCUPANCY / VACANCY WALL SWITCH SENSOR	MANUAL ON / AUTO OFF 30-MINUTE VACANCY TIMEOUT	RESTROOM	
nOS	OCCUPANCY / VACANCY LOW-VOLTAGE, PASSIVE INFRARED nLIGHT CEILING SENSOR	MANUAL ON / AUTO OFF 15-MINUTE VACANCY TIMEOUT	CLASSROOM	
nL	nLIGHT nPODM 4S DX [COLOR] 4-BUTTON ON/OFF TOGGLE OR QUAD SCENE CONTROLLER WITH DIMMING	ON / OFF/ RAISE / LOWER	CLASSROOM	









7 Z 412% SOUT

NO. DATE	REVISIONS:	DESCRIPTION					
Ö	REV	DATE					
		NO.					

SCALE.....SEE DWG. DRAWN....JJS

CHECKED.....JJS JOB NO...... 13133.03

SHEET TITLE

ELECTRICAL SCHEDULES

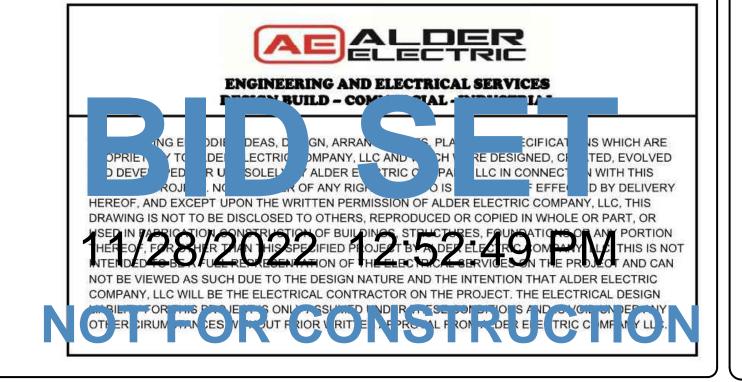
SHEET NO.

							5	SCHED	DULE: E	EXISTIN	NG PAN	EL 'H1	ı							
VOLTAC MOUNT ENCLOS LOCATION	ING: SURE: ON:	480 / SURFACE NEMA 1 ELECTRIC		PHASE: 3 WIRE: 4 POLE SPACES: 42		MAIN OV	ERCURI ERCURI	RENT DEVIC RENT AMPS MENT RATIN	:		225 LUGS N/A 22,000	AMPS				USE: E = Equipment Load				
		REAKER			FEE	DER	СК	(T. LOAD	L	OAD/PHASE (VA)	CKT. LC	DAD	FEE	DER			BREA	KER	
No.	AMPS	POLE	TYPE	CIRCUIT NAME	WIRE	GRD	USE	WATTS	ØA	ØB	ØС	WATTS	USE	GRD	WIRE	CIRCUIT NAME	TYPE	POLE	AMPS	No.
1	20	1		(E) ROOMS 111,112,113,119	#12	#12	L	2,688	5,376			2,688	L	#12	#12	(E) ROOMS 107,108,109,110		1	20	2
3	20	1		(E) ROOMS 114,115,116,117	#12	#12	L	2,688		5,199		2,511	L	#12	#12	(E) ROOMS 100,156,155		1	20	4
5	20	1		(E) ROOMS 151,152,153,154	#12	#12	L	2,688			5,876	3,188	L	#12	#12	(E) ROOMS 123,124,125		1	20	6
7	20	1		(E) ROOMS 131,133,134,147	#12	#12	L	3,244	6,148			2,904	L	#12	#12	(E) ROOMS 135,136,137,138,139,140		1	20	8
9	20	1		(E) GYM 126	#12	#12	L	3,888		6,792		2,904	L	#12	#12	(E) WEST CORRIDOR 118,105		1	20	10
11	20	1		(E) NORTH CORRIDOR LOBBY	#12	#12	L	3,192			5,314	2,122	L	#12	#12	(E) EAST CORRIDOR 104		1	20	12
13	20	1		(E) WALL PACKS	#12	#12	L	1,528	1,528							(E) LCP		1	20	14
15	20	1		(E) WALL PACKS	#12	#12	L	1,500	_	1,500						(E) PARKING LOT LIGHTS		1	20	16
17	20	1		(E) SPARE							3,241	3,241	E	#12	#12	RTU-1		3	15	18
19	20	1		(E) SPARE					3,241			3,241	E		#12					20
21	20	1		(E) SPARE					_	3,241	***	3,241	E		#12	—				22
23	20	1		(E) SPARE												(E) SPARE		1	20	24
25	20	1		(E) SPARE							_					(E) SPARE		1	20	26
27	20	1		(E) SPARE									-			(E) SPARE		1	20	28
29	20	1		(E) SPARE (E) SPARE									-			(E) SPARE		1	20	30
31	20	1		(E) SPARE												(E) SPARE (E) SPARE		1	20	32
33	20	1		(E) SPARE								-	+			(E) SPARE		1	20	34
35 37	20	1		(E) SPARE									1			(E) SPARE		1	20	36 38
39	20	1		(E) SPARE									+ +			(E) SPARE		1	20	40
		1		(E) SPARE									+			(E) SPARE		1		
41	20	1		(E) SPARE												(E) SPARE		1	20	42
									ØA	ØB	ØC	DEMAND	1	RAL NOTES:		UCTORS TO BE THHN UNLESS NOTED OTHERWISE.				
LIGHTIN	IG LOAD ((VA)							13,052	13,491	11,190	37,733	l IN	ISULATION C	N ALL UNDE	RGROUND CONDUCTORS SHALL BE THHW.				
LIGHTIN	IG CONTI	NOUS LOAI	D PER NEC	210.20 (VA)								9,433				IELD MARKED FOR FLASH PROTECTION WITH A QUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE	110			
			EC 220.14 (V						0	0	0	0	[2	ABEL SHALL	READ AS FO	DLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD"	. 110.			
	IENT LOA		(· <i>1</i>					3,241	3,241	3,241	9,723				THAN DWELLING UNITS SHALL BE LEGIBLY FIELD MARK /AILABLE FAULT CURRENT PER NEC 110.24(A).	ED			
		, ,							J,Z4 I		1 3,241		- ''	IIII IIIE CAL	LOOLATED AV	VALLABLE I AULT CONNENT PER NEC 110.24(A).				
		OTOR (VA)									1	0	_							
		MENT LOAD	• •						0	0	0	0								
0	UNITS @) 100% (PE	R NEC TABL	_E 220.56)									_							
TOTAL I	LOAD (VA	۸)							16,293	16,732	14,431	56,889								
TOTAL I	LOAD (AN	MPS):							59	60	52	68								
	,	•							L				_							

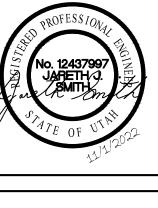
							9	SCHED	ULE: E	EXISTI	NG PAN	IEL 'L2'	Ī							
VOLTAC	E:	208 /	120	PHASE: 3		BUS AMF	PS:				225					USE:				
MOUNT	NG:	SURFACE		WIRE: 4		MAIN OV	ERCURI	RENT DEVICE	Ξ:		LUGS					E = Equipment Load M = Motor Load				
ENCLOS	SURE:	NEMA 1		POLE SPACES: 42		MAIN OV	ERCURI	RENT AMPS:			N/A					L = Lighting Load K = Kitchen Equipment R = Receptacle Load				
LOCATI	ON:	ELECTRIC	CAL ROOM			MINIMUN	1 EQUIP	MENT RATIN	G (AIC):		22,000	AMPS				TV - Neceptacie Load				
REMAR	KS:																			
	BF	REAKER			FEE	DER	CK	T. LOAD	LC	DAD/PHASE (VA)	CKT. LO	AD	FEE	DER			BREA	(ER	
No.	AMPS	POLE	TYPE	CIRCUIT NAME	WIRE	GRD	USE	WATTS	ØA	ØB	ØC	WATTS	USE	GRD	WIRE	CIRCUIT NAME	TYPE	POLE	AMPS	No.
1	20	1		(E) LIBRARY 131	#12	#12	R	180	720			540	R	#12	#12	(E) STORAGE / GYM RECP	1	1	20	2
3	20	1		(E) LIBRARY 131	#12	#12	R	180		720		540	R	#12	#12	(E) GYM RECP		1	20	4
5	20	1		(E) LIBRARY 131	#12	#12	R	180			360	180	R	#12	#12	(E) DED GYM RECP		1	20	6
7	20	1		(E) LIBRARY 131	#12	#12	R	180	360			180	R	#12	#12	(E) DED GYM RECP		1	20	8
9	20	1		(E) STORAGE RECP	#12	#12	R	360		720		360	R	#12	#12	(E) SCIENCE ROOM 133		1	20	10
11	20	1		(E) WASHER	#12	#12	Е	1,800			2,520	720	R	#12	#12	(E) SCIENCE ROOM 133		1	20	12
13	40	2		(E) DRYER	#8	#10	R	2,500	3,220			720	R	#12	#12	(E) BREAKOUT 134		1	20	14
15	_	_		-	#8	ı	R	2,500		3,220		720	R	#12	#12	(E) JH SPEC ED 147		1	20	16
17	20	1		(E) COMMON AREA RECP	#12	#12	R	900			1,260	360	R	#12	#12	(E) RECEPTION RECP		1	20	18
19	20	1		(E) BREAK AREA PRINTER	#12	#12	R	1,000	1,360			360	R	#12	#12	(E) RECEPTION RECP		1	20	20
21	20	1		(E) PRINC 136	#12	#12	R	720		1,720		1,000	R	#12	#12	(E) RECEPTION PRINTER		1	20	22
23	20	1		(E) OFFICE 138	#12	#12	R	720			900	180	R	#12	#12	(E) BREAK RECP		1	20	24
25	20	1		(E) RESTROOM RECP / EF	#12	#12	R	1,800	2,160			360	R	#12	#12	(E) BREAK RECP		1	20	26
27	20	1		(E) COUNS 145	#12	#12	R	720		1,080		360	R	#12	#12	(E) BREAK RECP		1	20	28
29	20	1		(E) JAN 146 / FILES 144	#12	#12	R	360			900	540	R	#12	#12	(E) WORK ROOM RECP		1	20	30
31	20	1		(E) C.O.W STORAGE	#12	#12	R	1,800	2,160			360	R	#12	#12	(E) KINDER 106		1	20	32
33	20	1		(E) C.O.W STORAGE	#12	#12	R	1,800		2,700		900	R	#12	#12	(E) KINDER 106		1	20	34
35	20	1		(E) C.O.W STORAGE	#12	#12	R	1,800			2,430	630	R	#12	#12	(E) R.R 106A POWER		1	20	36
37	20	1		(E) JH CLASSROOM 156	#12	#12	R	360	720			360	R	#12	#12	(E) JH CLASSROOM 155		1	20	38
39	20	1		(E) JH CLASSROOM 156	#12	#12	R	900		1,800		900	R	#12	#12	(E) JH CLASSROOM 155		1	20	40
41	20	1		(E) SPARE												(E) SPARE		1	20	42
									ØΑ	(AD	T øc	DEMAND] GENE	RAL NOTES						
LICHTIK		\								ØB			1. A	LL INSULATI	ON ON CONE	OUCTORS TO BE THHN UNLESS NOTED OTHERWISE.				
	G LOAD (0	0	0	0				RGROUND CONDUCTORS SHALL BE THHW. FIELD MARKED FOR FLASH PROTECTION WITH A				
LIGHTIN	IG CONTII	NOUS LOAD	PER NEC 2	210.20 (VA)								0	Р	ERMANENT	_ABEL AS RE	QUIRED BY THE NATIONAL ELECTRICAL CODE ARTICL				
RECEPT	ACLE LO	AD PER NE	C 220.14 (V	A)					10,700	11,960	6,570	19,615				OLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD" THAN DWELLING UNITS SHALL BE LEGIBLY FIELD MAR				
EQUIPM	ENT LOA	D (VA)							0	0	1,800	1,800	1			VAILABLE FAULT CURRENT PER NEC 110.24(A).	KLD			
25% LAI	RGEST M	OTOR (VA)									I	0								
		MENT LOAD	(VA)						0	Τ ο	Τ ο	0	1							
			R NEC TABL	.E 220.56)							1 ,	0	J							
	OAD (VA	•		•					10,700	11,960	8,370	21,415]							
	OAD (AM	•							89	100	70	59	†							
	-0712 (7111	• ,.								100	10		J							

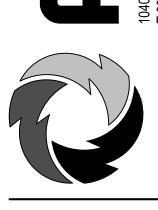
								SCHED)ULE: E	EXISTIN	ig pan	1EL 'L3'	'							
OUNT NCLOS	NG: SURE: DN:	208 / 120 SURFACE NEMA 1 ELECTRICAL ROOM		PHASE: 3 WIRE: 4 POLE SPACES: 42	BUS AMPS: MAIN OVERCURRENT DEVICE MAIN OVERCURRENT AMPS: MINIMUM EQUIPMENT RATING						225 LUGS N/A 22,000	AMPS			USE: E = Equipment Load M = Motor Load L = Lighting Load K = Kitchen Equipment R = Receptacle Load					
OUNTING: S NCLOSURE: N DCATION: E EMARKS: BRE/	REAKER			FEEDER		Ck	T. LOAD	LC	DAD/PHASE (/A)	CKT. LO	AD	FEE	DER			BREA	KER		
No.	AMPS	POLE	TYPE	CIRCUIT NAME	WIRE	GRD	USE	WATTS	ØA	ØB	øс	WATTS	USE	GRD	WIRE	CIRCUIT NAME	TYPE	POLE	AMPS	No.
1	20	1		(E) OUTLETS 154	#12	#12	R	360	720			360	R	#12	#12	(E) JH CLASSROOM 152		1	20	2
3	20	1		(E) OUTLETS 154	#12	#12	R	900		1,800		900	R	#12	#12	(E) JH CLASSROOM 152		1	20	4
5	20	1		(E) OUTLETS 153	#12	#12	R	360			720	360	R	#12	#12	(E) JH CLASSROOM 151		1	20	6
7		1		(E) OUTLETS 153	#12	#12	R	900	1,800			900	R	#12	#12	(E) JH CLASSROOM 151		1	20	8
		1		(E) DISHWASHER 151	#12	#12	R	540		900		360	R	#12	#12	(E) EWC		1	20	10
		1		(E) COW RM 148 #8	#12	#12	R	1,800	0.000		3,600	1,800	R	#12	#12	C(E) OW STORAGE		1	20	12
		1		(E) COW RM 148 #6	#12	#12	R	1,800	3,600	0.000		1,800	R	#12	#12	(E) COW STORAGE		1	20	14
		1		(E) COW RM 148 #3 (E) COW RM 148 #1	#12	#12	R	1,800 1,800		3,600	3,600	1,800 1,800	R	#12	#12	(E) COW STORAGE (E) COW STORAGE		1	20	16
		2		(E) HAND DRYER 150	#12 #10	#12 #10	R	1,800	3,600		3,000	1,800	R	#12 #10	#12	(E) HAND DRYERS		2	20	18 20
				(E) HAND DIVIEN 100	#10	#10	R	1,800	3,000	3,600		1,800	R	#10	#10 #10	(E) HAND DIVIENS			30	22
		2		(E) HAND DRYER 150	#10	#10	R	1,800		0,000	3,600	1,800	R	#10	#10	(E) HAND DRYERS		2	30	24
					#10	#10	R	1,800	3,600		0,000	1,800	R	#10	#10	(2) 17 (18 5) (12)				26
		2		(E) WEST OVEN 151	#6	#10	M	4,000	0,000	5,352		1,352	M	#12	#12	(E) CU-1 (OUTDOOR)		2	20	28
					#6		М	4,000		7	5,352	1,352	M		#12					30
	20	1		(E) DATA RM OUTLET 132	#12	#12	R	360	720			360	R	#12	#12	(E) DATA 132		1	20	32
33	20	1		(E) DATA RM OUTLET 132	#12	#12	R	360		1,440		1,080	R	#12	#12	(E) RCPT - ROOF TOP		1	20	34
35	20	1		(E) WEST MICROWAVE 151	#12	#12	R	500			1,760	1,260	R	#12	#12	(E) RCPT - ROOF TOP		1	20	36
37	20	1		(E) F.R.RM LIGHT BELL SPRINKLER	#12	#12	Е	500	1,000			500	Е			(E) EXISTING LOAD		1	20	38
39	20	2		(E) B.B.H. F.R. ROOM	#12	#12	Е	375		875		500	Е			(E) EXISTING LOAD		1	20	40
41					#12		Е	375			875	500	Е			(E) EXISTING LOAD		1	20	42
													7							
									ØA	ØB	ØC	DEMAND		ERAL NOTES:		DUCTORS TO BE THHN UNLESS NOTED OTHERWISE.				
SHTIN	G LOAD ((VA)							0	0	0	0	IN.	NSULATION (N ALL UND	ERGROUND CONDUCTORS SHALL BE THHW.				
GHTIN	G CONTI	NOUS LOAI	D PER NEC	210.20 (VA)								0	1			FIELD MARKED FOR FLASH PROTECTION WITH A EQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 11	10.			
CEP	ACLE LO	AD PER NE	C 220.14 (V	A)					14,040	11,340	13,280	24,330				FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD"	_			
UIPM	ENT LOA	D (VA)							1,000	6,227	6,227	13,454	1			R THAN DWELLING UNITS SHALL BE LEGIBLY FIELD MARKED AVAILABLE FAULT CURRENT PER NEC 110.24(A).	J			
		, ,								I	I	1,000	1							
CHE	N EQUIPN	MENT LOAD	(VA)						0	0	0	0								
0	JNITS @	100% (PE	R NEC TABL	LE 220.56)									_							
OTAL I	AV) DAO.	.)							15,040	17,567	19,507	38,784]							
JTAL I	OAD (AN	1PS):							125	146	163	108								

OLTAC MOUNT NCLOS OCATI	ING: SURE: ON:	SURFACE NEMA 1	120 E CAL ROOM	PHASE: 3 WIRE: 4 POLE SPACES: 42		MAIN OV	/ERCURI /ERCURI	RENT DEVICI RENT AMPS: MENT RATIN			225 LUGS N/A 22,000	AMPS				USE: E = Equipment Load				
KEIVIAR		REAKER			FEE	DER	СК	T. LOAD	LC	DAD/PHASE (VA)	CKT. LC	DAD	FEEI	DER			BREA	KER	
No.	AMPS	POLE	TYPE	CIRCUIT NAME	WIRE	GRD	USE	WATTS	ØA	ØВ	ØС	WATTS	USE	GRD	WIRE	CIRCUIT NAME	TYPE	POLE	AMPS	No.
1	20	1		(E) COW 148 #7	#12	#12	R	360	720			360	R	#12	#12	(E) COW STORAGE		1	20	2
3	20	1		(E) COW 148 #5	#12	#12	R	360		720		360	R	#12	#12	(E) COW STORAGE		1	20	4
5	20	1		(E) COW 148 #4	#12	#12	R	360			720	360	R	#12	#12	(E) COW STORAGE		1	20	6
7	20	1		(E) COW 148 #2	#12	#12	R	360	720			360	R	#12	#12	(E) COW STORAGE		1	20	8
9	20	1		(E) COW 122 #6	#12	#12	R	360		720		360	R	#12	#12	(E) COW STORAGE		1	20	10
11	20	1		(E) COW 122 #8	#12	#12	R	360			660	300	L	#12	#12	(E) CF-1		1	20	12
13	20	1		(E) WEST RESTROOM			Е	500	1,000			500	Е			(E) EAST RESTROOM		1	20	14
15	20	1		(E) WP GFI FOR RTU #9			Е	500		1,000		500	Е			(E) WATER FOUNTAIN IN GYM		1	20	16
17	20	1		(E) RM 125 DEDICATED RCPT			Е	500			1,000	500	Е			(E) EXISTING LOAD		1	20	18
19	20	1		(E) RM 125 DEDICATED RCPT			Е	500	1,000			500	Е			(E) EXISTING LOAD		1	20	20
21	20	1		(E) EXISTING LOAD			Е	500		1,000		500	Е			(E) EXISTING LOAD		1	20	22
23	20	1		(E) EXISTING LOAD			Е	500			1,000	500	Е			(E) SMCC CEILING OUTLETS		1	20	24
25	20	1		(E) EXISTING LOAD			Е	500	1,000			500	Е			(E) SMCC CEILING OUTLETS		1	20	26
27	20	1		(E) EXISTING LOAD			Е	500		875		375	E	#12	#12	BR-1		2	20	28
29	20	1		(E) SMCC CEILING OUTLETS			Е	500			875	375	E		#12				20	30
31	20	1		(E) SMCC CEILING OUTLETS			Е	500	1,220			720	R	#12	#12	RCPT - KINDER CLASSROOM 103		1	20	32
33	20	1		(E) CLASSROOM DEDICATED RCPT			Е	500		1,220		720	R	#12	#12	RCPT - KINDER CLASSROOM 103		1	20	34
35	20	1		(E) RM 133 DEDICATED RCPT			Е	500			500					(E) SPARE		1	20	36
37	20	1		(E) RM 151 DEDICATED RCPT			Е	500	500							(E) SPARE		1	20	38
39	20	1		(E) RM 151 DEDICATED RCPT			Е	500		500						(E) SPARE		1	20	40
41	20	1		(E) EXISTING LOAD			Е	500			500					(E) SPARE		1	20	42
									ØA	ØB	ØС	DEMAND	1	RAL NOTES:		HOTODO TO DE THUM HAN ECC MOTED OTHERWISE				
.IGHTIN	IG LOAD ((VA)							0	0	300	300				UCTORS TO BE THHN UNLESS NOTED OTHERWISE. RGROUND CONDUCTORS SHALL BE THHW.				
.IGHTIN	IG CONTI	NOUS LOAF	D PER NEC	210.20 (VA)						1	1	75	1			IELD MARKED FOR FLASH PROTECTION WITH A	E 110			
		AD PER NE		· ·					2,160	2,160	1,080	5,400				QUIRED BY THE NATIONAL ELECTRICAL CODE ARTICL DLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD"	E I IV.			
			.J 220.17 (V	, y						· ·	· ·	· '	3. P	ANELBOARD	S IN OTHER 1	THAN DWELLING UNITS SHALL BE LEGIBLY FIELD MAR	KED			
	IENT LOA								4,000	3,875	3,875	11,750	┦ "	TIH THE CAL	LOULATED AV	'AILABLE FAULT CURRENT PER NEC 110.24(A).				
		OTOR (VA)								1	ı	0	4							
		MENT LOAD	` '						0	0	0	0								
	_) 100% (PEI	R NEC TAB	LE 220.56)									_							
TOTAL I	_OAD (VA	N)							6,160	6,035	5,255	17,525								
	_OAD (AM	ADG).							51	50	44	49								









UNTAIN WES
4125 FOXVIEW DRIVE
SOUTH JORDAN, UTAH

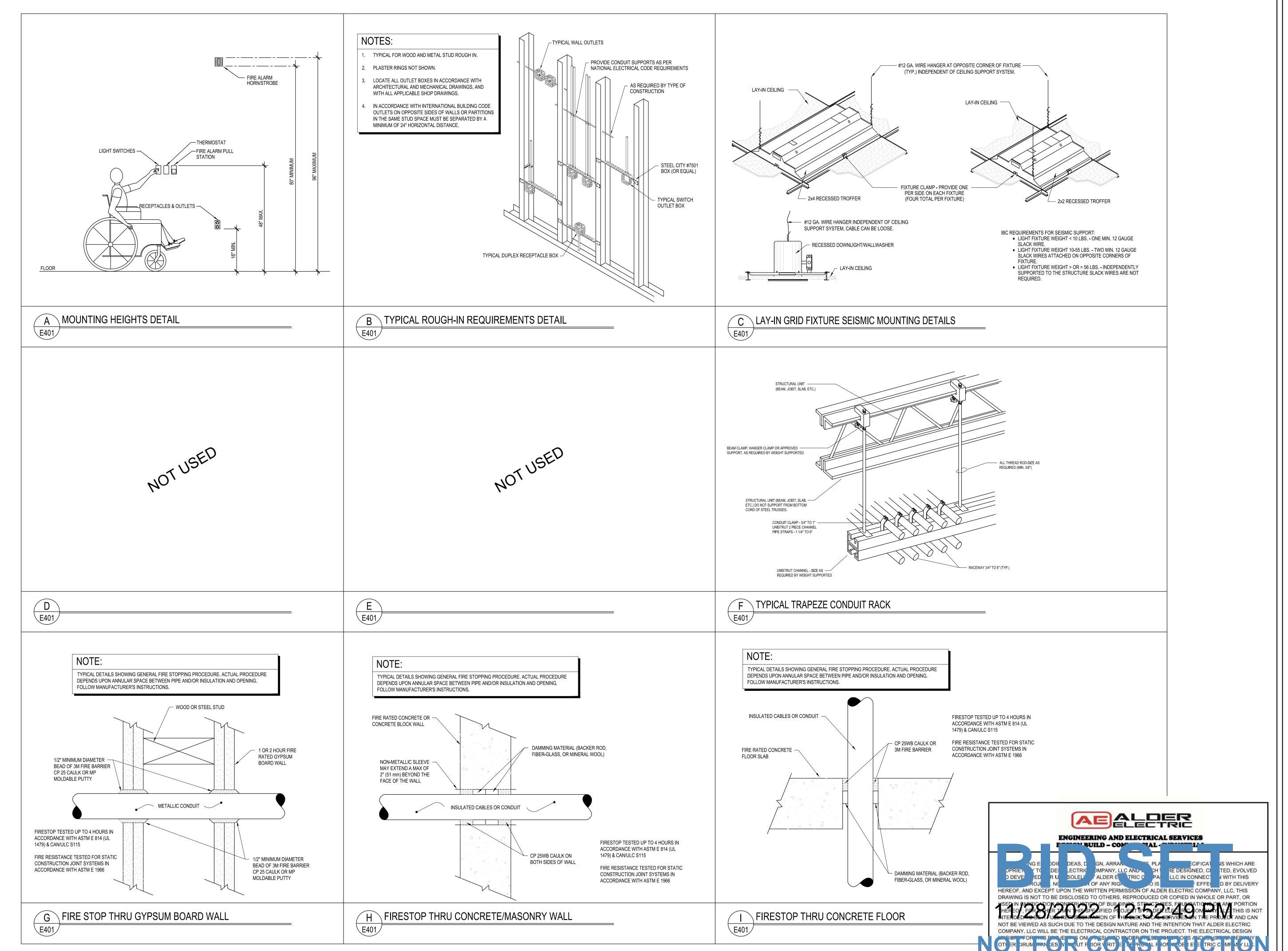
SCALE.....SEE DWG.

DRAWN.....JJS CHECKED.....JJS JOB NO......13133.03

SHEET TITLE

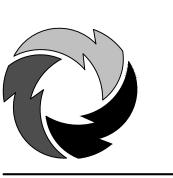
PANEL SCHEDULES

SHEET NO.









TSH MA

10UNTAIN V 4125 FOXVIEW DRIVE SOUTH JORDAN, UTA

NO. DATE TI//1/2055

DRAWN.....JJS

CHECKED...JJS

JOB NO....13133.03

SHEET TITLE

ELECTRICAL DETAILS

SHEET NO.

E401