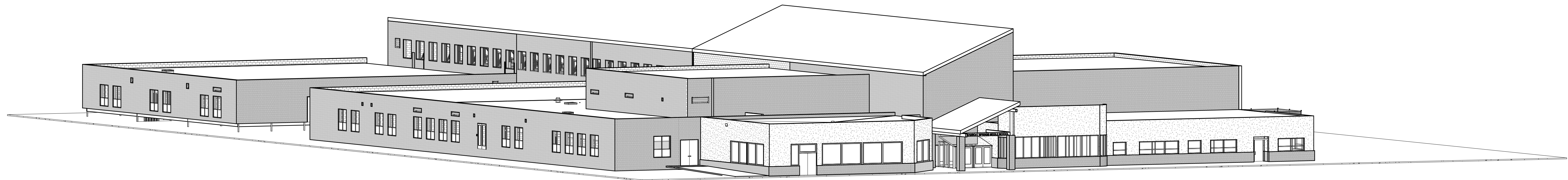


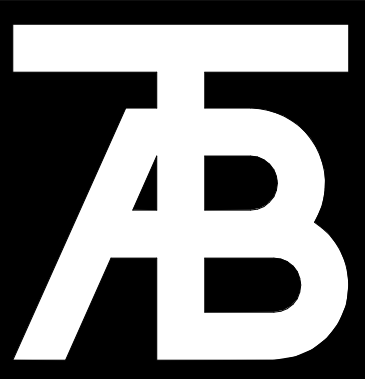
STEAMBOAT SPRINGS MIDDLE SCHOOL

CAFETERIA ADDITION

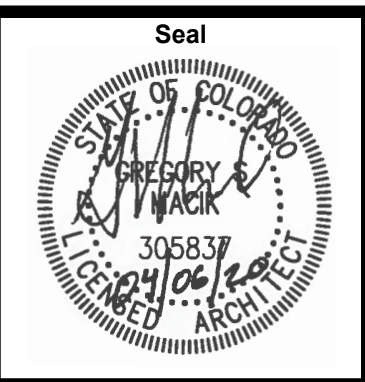
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CONSTRUCTION DOCUMENTS
04/07/20



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Steamboat Springs Middle School
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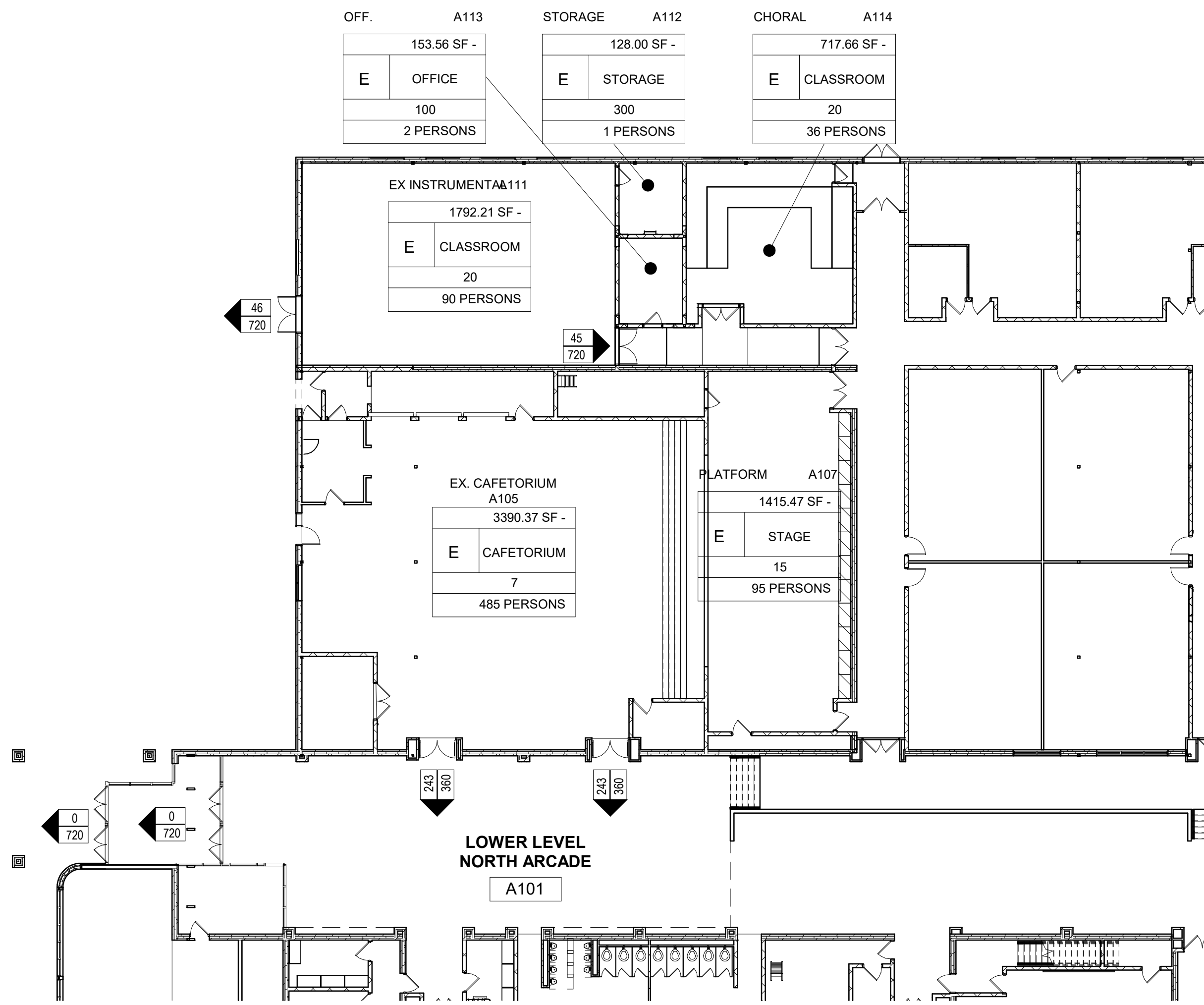
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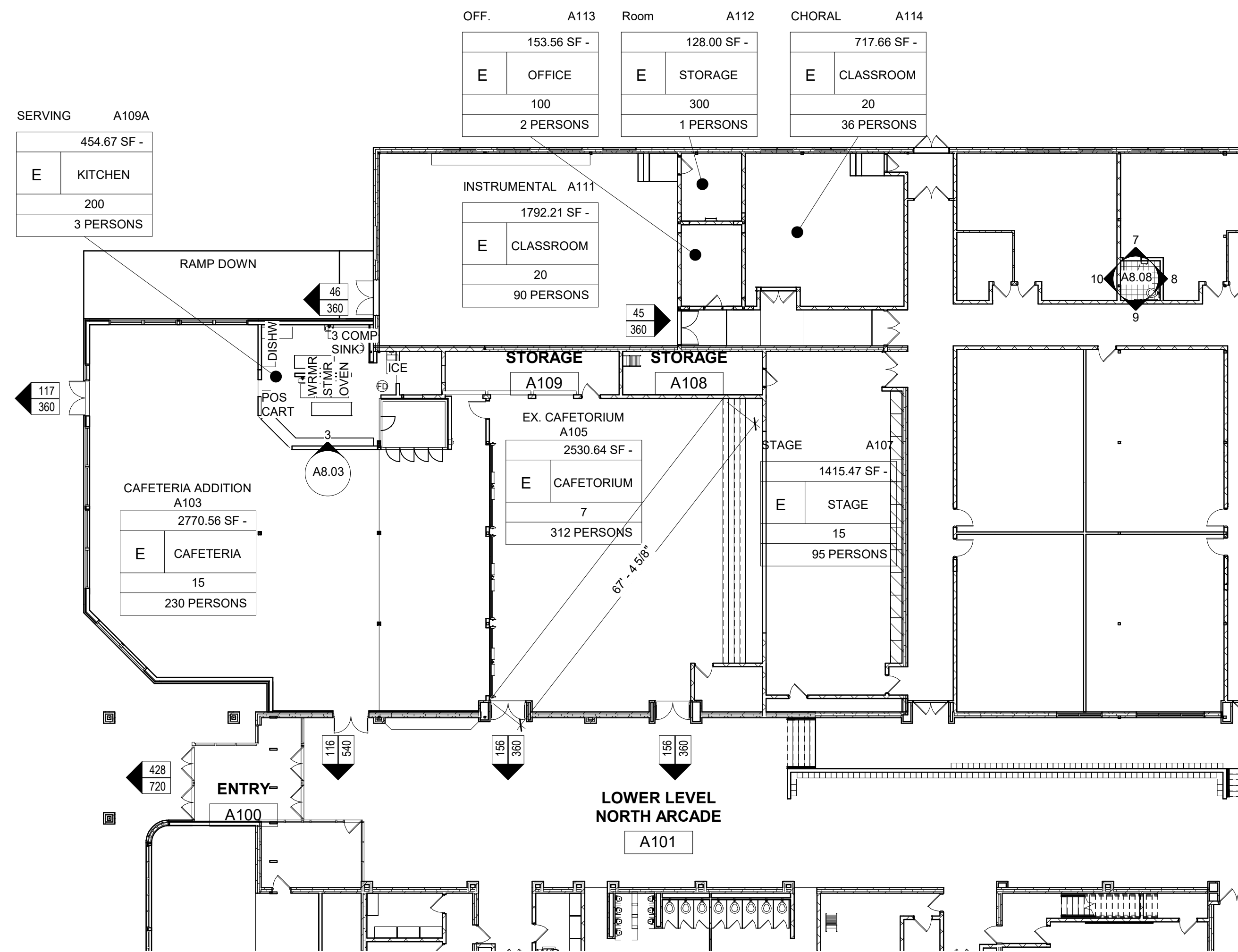
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Cover

Project No:
1935.03

Sheet No:
A0.00

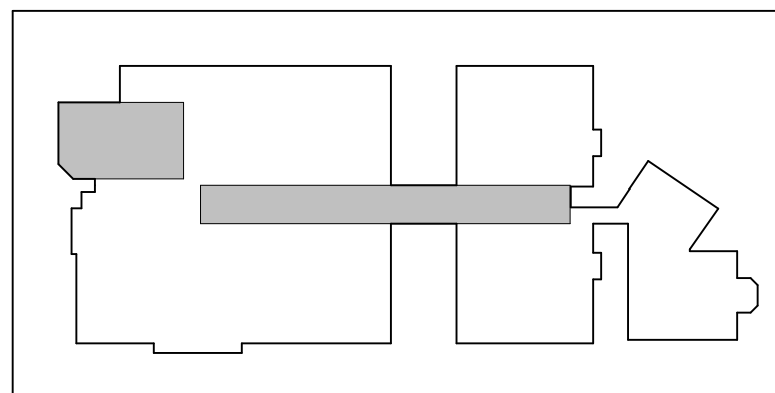


1 EX. EGRESS PLAN AREA A
A0.02 1/16" = 1'-0"



2 LEVEL 1 - EGRESS PLAN AREA A
A0.02 1/16" = 1'-0"

KEYNOTE PLAN

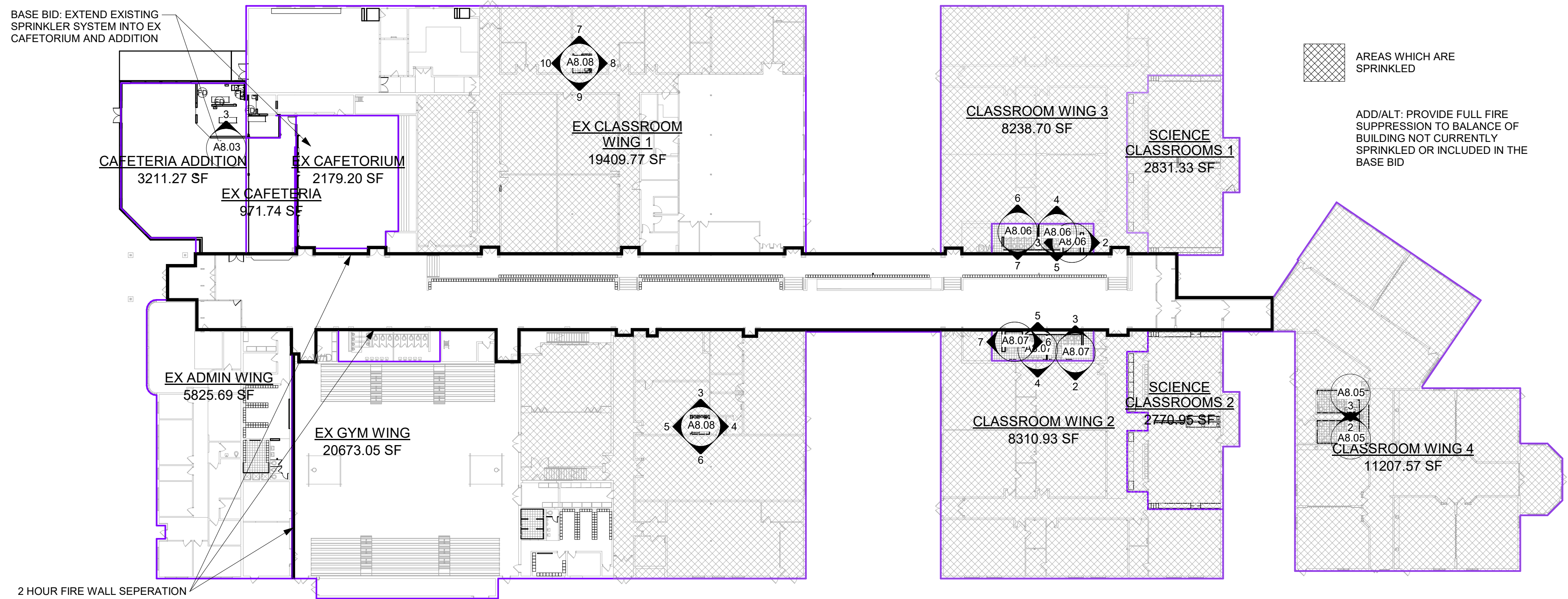


EGRESS NARRATIVE

CAFETERIA -	ACCESSORY USE EXTERIOR DOOR IS SIZED TO ALLOW FULL OCCUPANCY EGRESS
CAFETERIUM -	ACCESSORY USE EGRESS DOORS INTO ARCADE ARE HAVING THE PANELS REPLACED BUT THE FRAMES AND EGRESS WIDTH STAY THE SAME. THE CAFETERIUM HAS BEEN REDUCED IN SIZE FROM 485 TO 312 PERSONS
EX. INSTRUMENTAL -	NO CHANGE IN OCCUPANCY OR EGRESS
EX. CHORAL -	NO CHANGE IN OCCUPANCY OR EGRESS
SCIENCE ROOMS -	NO CHANGE IN OCCUPANCY OR EGRESS
VARIOUS BATHS -	ACCESSORY USE, REF PLANS FOR INCREASED OCCUPANTS
EGRESS DOORS	
ALL EGRESS DOORS TO THE EXTERIOR WILL HAVE FREE EGRESS WITH PANIC DEVICES. DOORS WITH NOTED OCCUPANT LOAD OF 50 OR OVER WILL ALSO HAVE FREE EGRESS WITH PANIC DEVICE ELECTRONIC DOOR LOCKS DO NOT HAMPER EGRESS	



3 LEVEL 1 - EX. FIRE WALL SEPERATION PLAN
A0.02 1/32" = 1'-0"



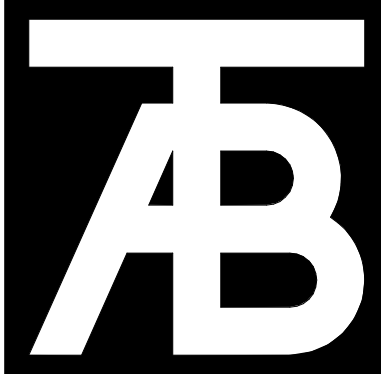
4 LEVEL 1 - FIRE WALL SEPERATION PLAN
A0.02 1/32" = 1'-0"

EXISTING BUILDING INFORMATION

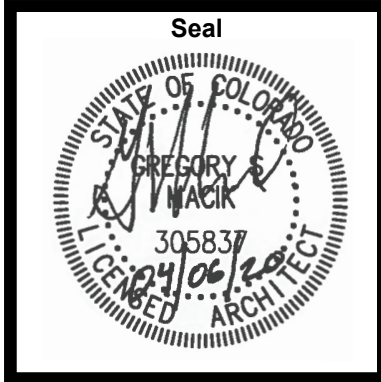
BUILDING	OCCUPANCY	OCCUPANTS	EXISTING AREA	NEW AREA	ALLOWABLE AREA	EXISTING CONST. TYPE	FIRE SUPPRESSION	BUILDING HEIGHT
ADMIN WING ADDITION 2007	B		5,826 SF	-	58,000 SF	TYPE 2B (IIB)	YES	EX
GYM +STAGE WING ORIGINAL BLDG 1980	A1/A3/E		20,674 SF	-	58,000 SF	TYPE 2B (IIB)	YES	EX
CLASSROOM WING 1 ORINGAL BLDG 1980	E		18,148 SF	-	58,000 SF	TYPE 2B (IIB)	YES	EX
CLASSROOM WING 2 ORIGINAL BLDG 1980	E		11,082 SF	-	58,000 SF	TYPE 2B (IIB)	YES	EX
CLASSROOM WING 3 ORIGINAL BLDG 1980	E		11,071 SF	-	58,000 SF	TYPE 2B (IIB)	YES	EX
CLASSROOM WING 4 ADDITION 2003	E		11,208 SF	-	58,000 SF	TYPE 2B (IIB)	YES	EX
NEW CAFETERIA WING EXISTING CAFETERIUM + PROPOSED CAFETERIA ADDED TO CLASSROOM WING 1	A2		4,434 SF	2,608 SF	58,000 SF	TYPE 2B (IIB)	PROPOSED EXISTING CAFETERIUM TO BE SPRINKLED	16'-8" MATCHING ADJACENT
TOTAL OCCUPANTS	NO ADDITIONAL OCCUPANTS							
TOTAL NEW AREA	2,608 SF							
TOTAL AREA	85,051 SF							

NEW CAFETERIA AREA IS AN ACCESSORY USE FOR THE SCHOOL PER 2015 IBC 303.1.3
WORK IN SCIENCE CLASSROOMS DOES NOT IMPACT/CHANGE OCCUPANCY, SQUARE FOOTAGE, CONSTRUCTION TYPE, OR EGRESS

AREAS WHICH ARE SPRINKLED
ADDIAT: PROVIDE FULL FIRE SUPPRESSION TO BALANCE OF BUILDING NOT CURRENTLY SPRINKLED OR INCLUDED IN THE BASE BID



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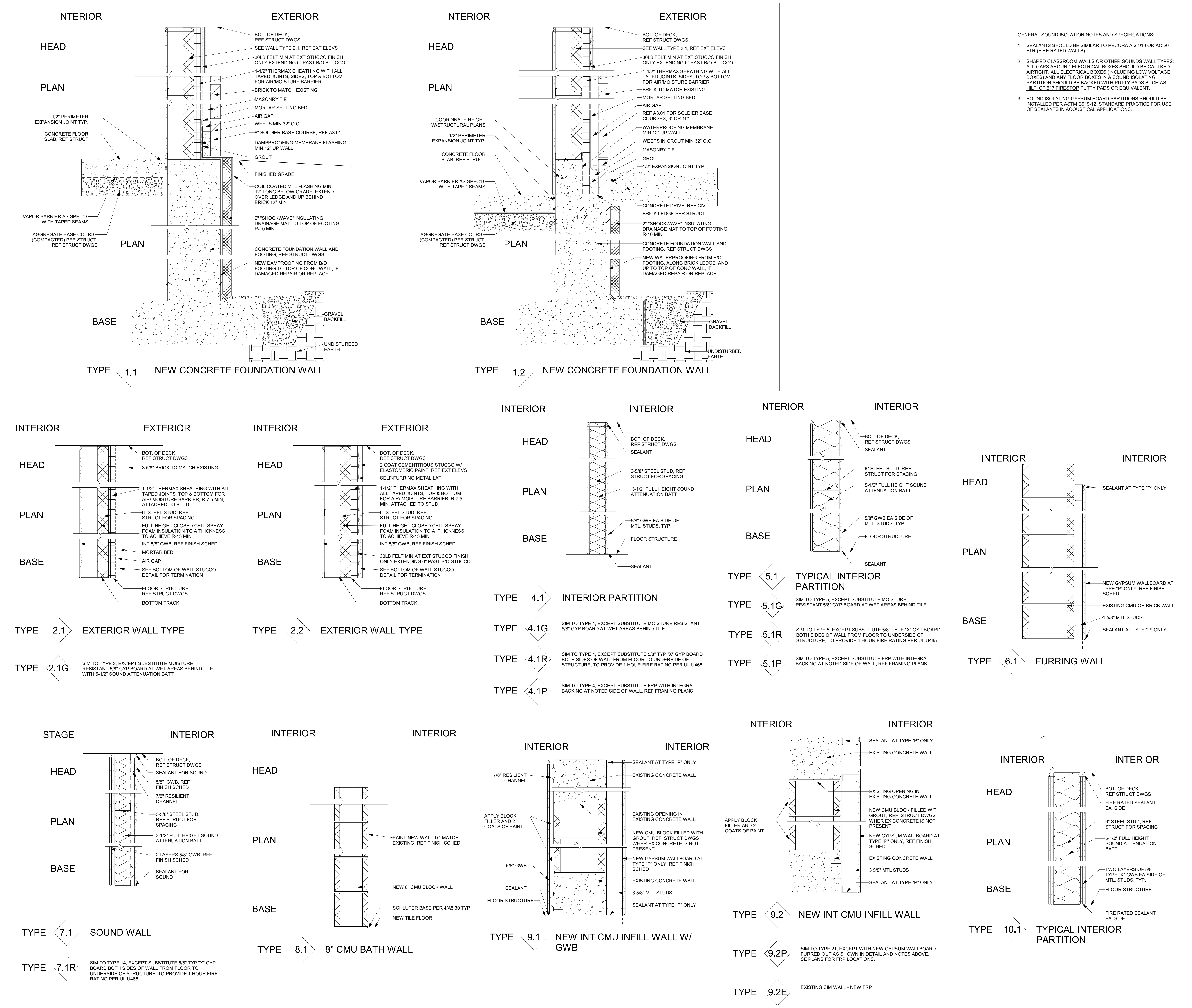
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Code Summary

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Sheet No:
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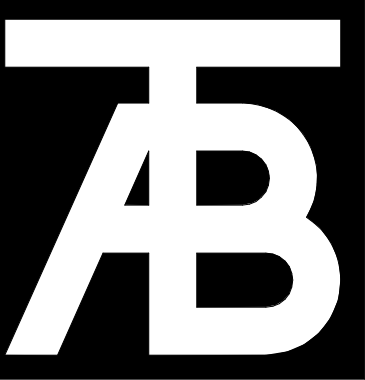
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DOOR SCHEDULE																			
DOOR NO.	LOCATION		WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME DEPTH	FRAME FINISH	GLASS TYPE	HEAD	JAMB	SILL	FIRE RATING	HDWR	REMARKS
	FROM ROOM	TO ROOM																	
A103A	CAFETERIA ADDITION	LOWER LEVEL NORTH ARCADE	6' - 0"	7' - 0"	1 3/4"	6	WD	ST	5	HM	1' - 1 5/8"	PT	TEMPERED	14/A5.60	14/A5.60	6/A5.60	---	02	MAG LOCKS, HOLD OPEN + CLOSERS, NO MULLION OR ASTRIGAL, KEYCARD ACCESS
A103C	CAFETERIA ADDITION		6' - 0"	7' - 0"	1 3/4"	7 SIM	SF	MFG	2 SIM	SF	6' - 6"	MFG	TEMPERED, INSULATED	9/A5.60	13/A5.60	7/A5.60	---	AL-01	KEYCARD ACCESS, NO WIRING IN REMOVABLE MULLION, REF WINDOW TYPE 3 FOR SIZING
A103D	EX. CAFETORIUM	CAFETERIA CONVERSION	3' - 0"	7' - 0"	1 3/4"	1	WD	ST	1	HM	8 1/4"	PT	TEMPERED	4/A5.60	4/A5.60	6/A5.60	---	04	
A105C		EX. CAFETORIUM	12' - 0"	8' - 0"	2 1/8"	9	SF	MFG	EXTRUDED	SF	6 1/2"	MFG	TEMPERED	2/A5.60 SIM	2/A5.60	-	---	OH-01	GARAGE DOOR, GLASS, STRAIGHT UP TRACK, ANODIZED DARK BRONZE FRAME
A105D		EX. CAFETORIUM	14' - 6"	8' - 0"	2 1/8"	9	SF	MFG	EXTRUDED	SF	6 1/2"	MFG	TEMPERED	2/A5.60 SIM	2/A5.60	-	---	OH-01	GARAGE DOOR, GLASS, STRAIGHT UP TRACK, ANODIZED DARK BRONZE FRAME
A105E		EX. CAFETORIUM	14' - 6"	8' - 0"	2 1/8"	9	SF	MFG	EXTRUDED	SF	6 1/2"	MFG	TEMPERED	2/A5.60 SIM	2/A5.60	-	---	OH-01	GARAGE DOOR, GLASS, STRAIGHT UP TRACK, ANODIZED DARK BRONZE FRAME
A109A	SERVING	CAFETERIA ADDITION	3' - 0"	2' - 6"	2"	8	WD	ST	-	-	-	-		-	-	-	---	05	HALF HEIGHT
A111A	INSTRUMENTAL		6' - 2"	8' - 2"	1 3/4"	1	HM	PT	EX	EX		PT		EX.	EX.	EX.	---	01.01	REPLACE DOOR, DOOR HARDWARE, AND RETROFIT FOR HINGE LOCKSET
B109A	SPED	SPED BATH	3' - 0"	7' - 0"	1 3/4"	1	WD	ST	1	HM	8 1/4"	PT		4/A5.60	4/A5.60		---		SPED BATH, PASSAGE HARDWARE W/NO LOCKS
C106A	GREENHOUSE		3' - 0"	7' - 0"	1 3/4"	1	HM	PT	3	HM		PT		8/A5.60	13/A5.60	7/A5.60	---	01	
C107D	7TH GRADE SCIENCE	7TH GRADE SCIENCE	12' - 0"	8' - 6"	3' - 6"	-	MFR	WB	EXTRUDED	MFR	8 1/4"	MFG		12/A5.60	10/A5.60	-	---	SL-01	FOLDING PARTITION
C107E			15' - 0"	5' - 6"	2"	-	MFR	NA	EXTRUDED	MFR	8 1/4"	MFG		15/A5.60	10/A5.60	-	---	SL-01	ACORDION COUNTERTOP DOOR
EA105E	SPED		3' - 0"	7' - 0"	1 3/4"	1	WD	ST	1	HM	8 1/4"	PT		4/A5.60	4/A5.60		---		SPED BATH, PASSAGE HARDWARE W/NO LOCKS
EA111B	INSTRUMENTAL		6' - 0"	8' - 0"	1 3/4"	EX	EX	EX	EX	EX		EX	EX.			EX.	---	EX-02	DOOR HOLD OPEN TO RECIEVE NEW THINNER MAG HOLD

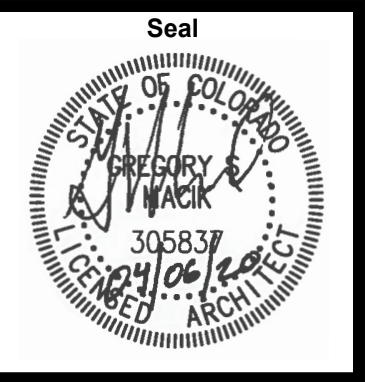
ABBREVIATIONS:

MFG	MANUFACTURER
EHM	EX HOLLOW METAL
EWD	EX WOOD
ESF	EX STORE FRONT
EAL	EX ALUMINUM
HM	HOLLOW METAL
WD	WOOD
SF	STORE FRONT
AL	ALUMINUM
EST	EX STAIN
EPT	EX PAINT
MILL	FACTORY MILL FINISH
PT	PAINT
ST	STAIN
TEMP	TEMPERED
EX	EXISTING
SS	STAINLESS STEEL FINISH
VS	VINYL STICKER FINISH BY MFG



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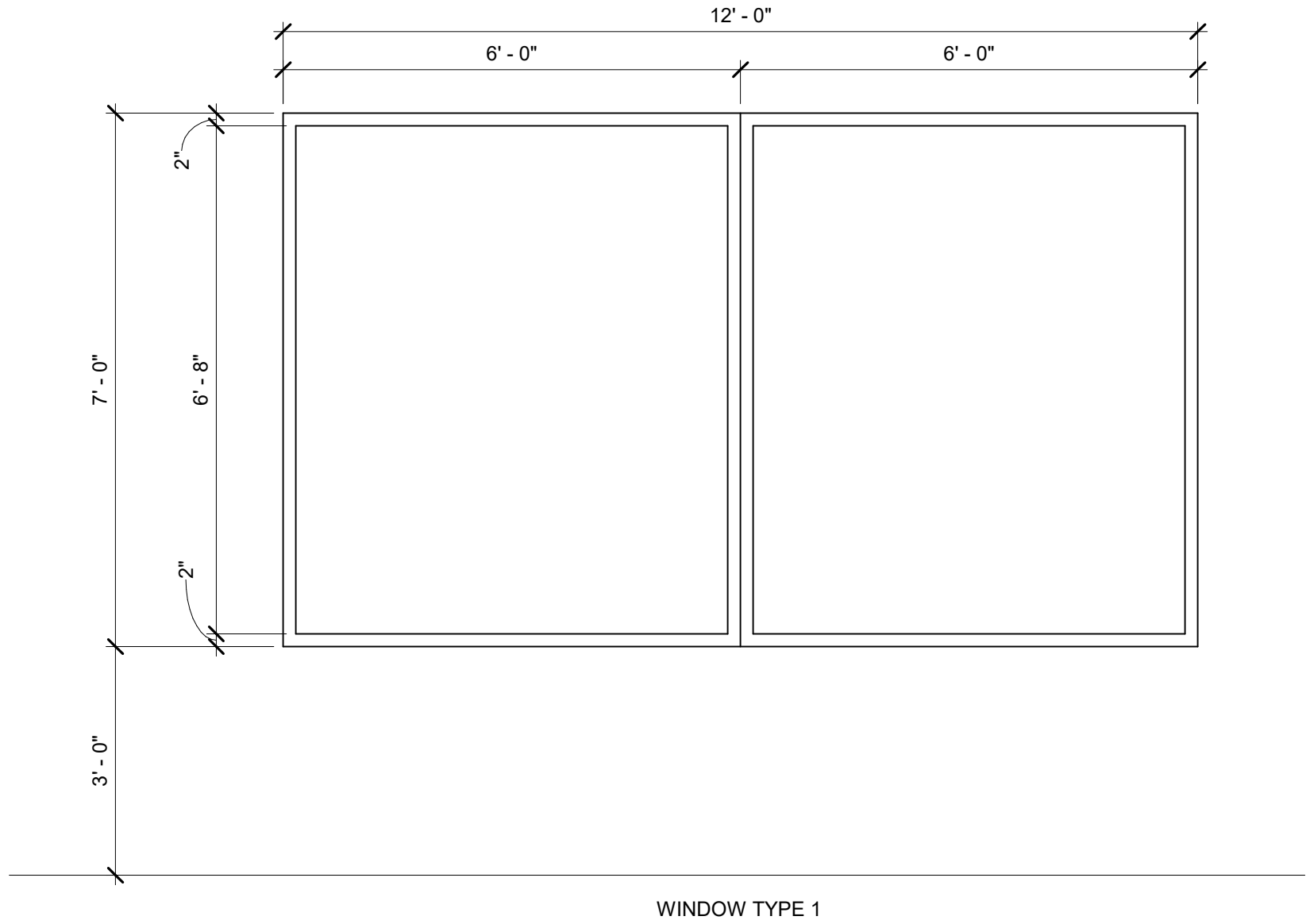
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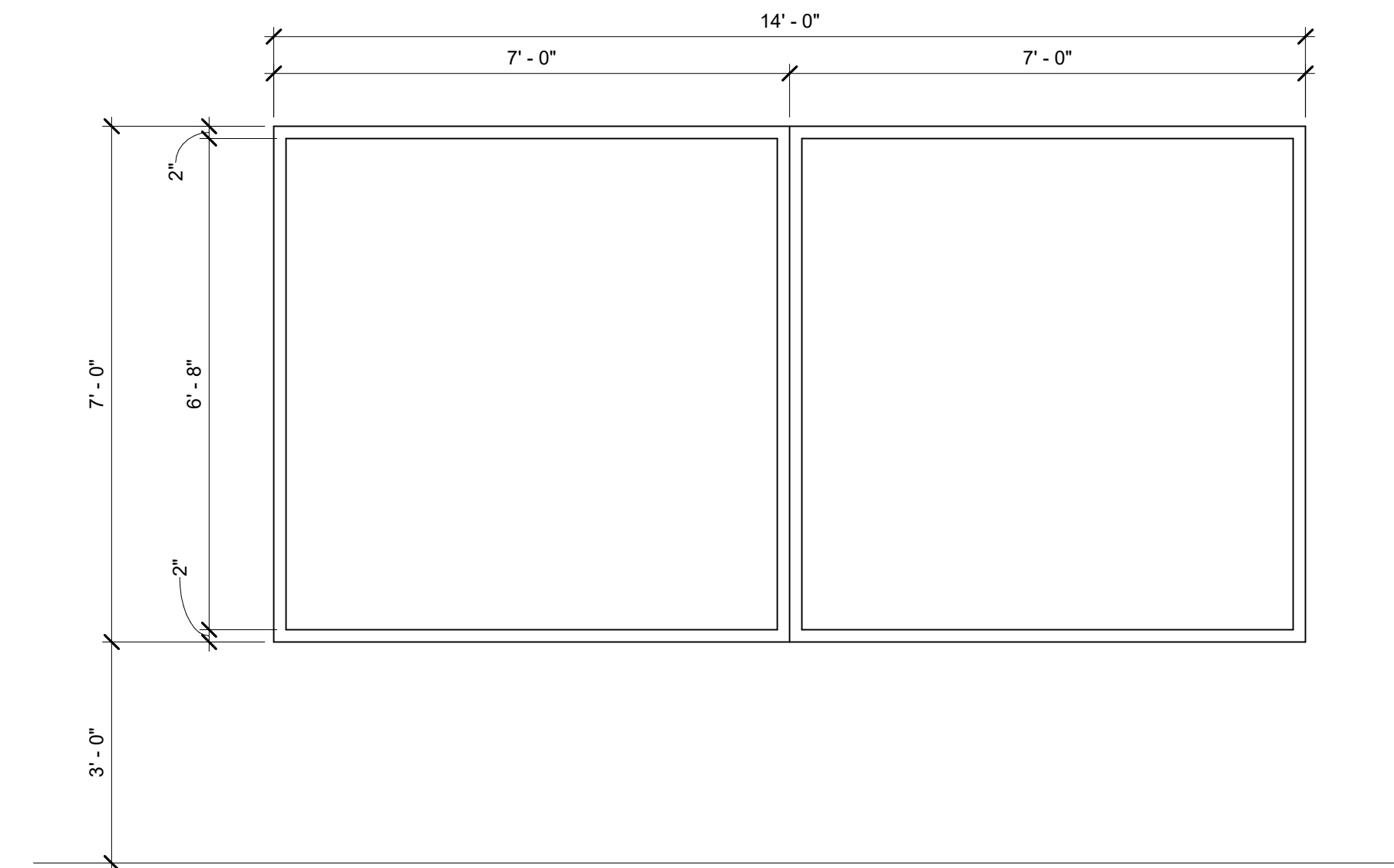
Sheet Title:
Door and Window Schedules

Project No:
1935.03

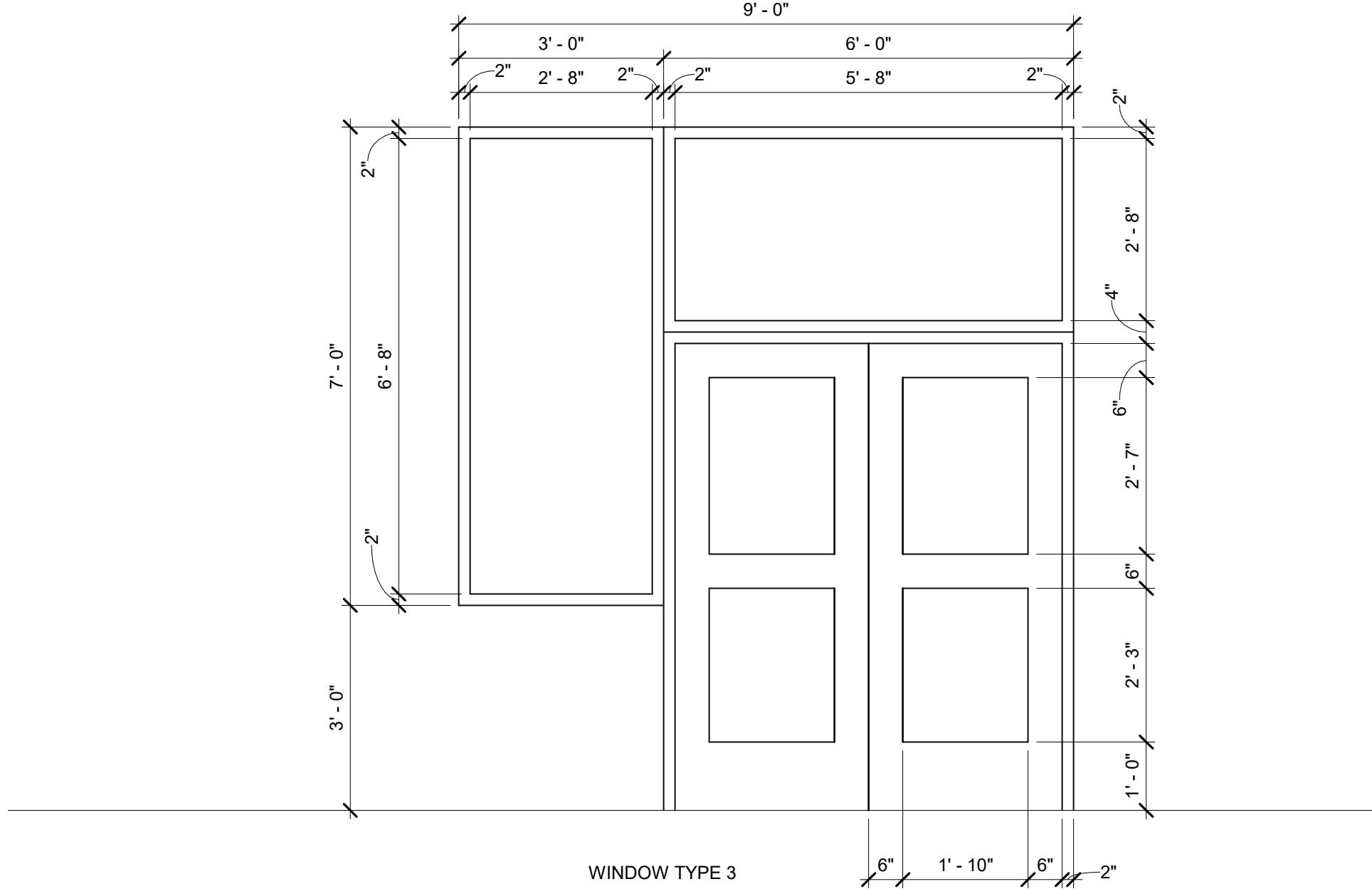
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A0.04



WINDOW TYPE 1

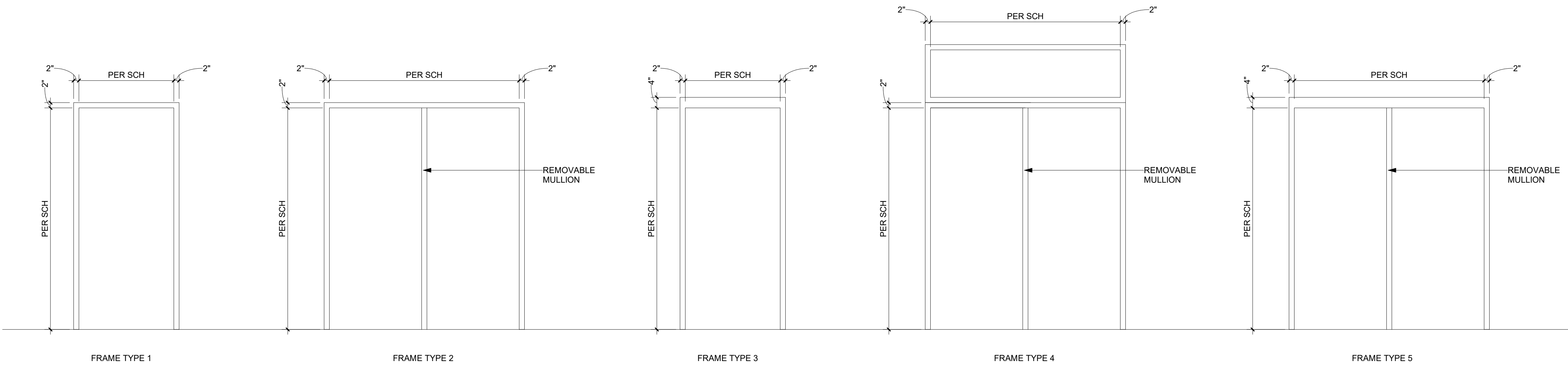


WINDOW TYPE 2



WINDOW TYPE 3

WINDOWS
1/2" = 1'-0"



FRAME TYPE 1

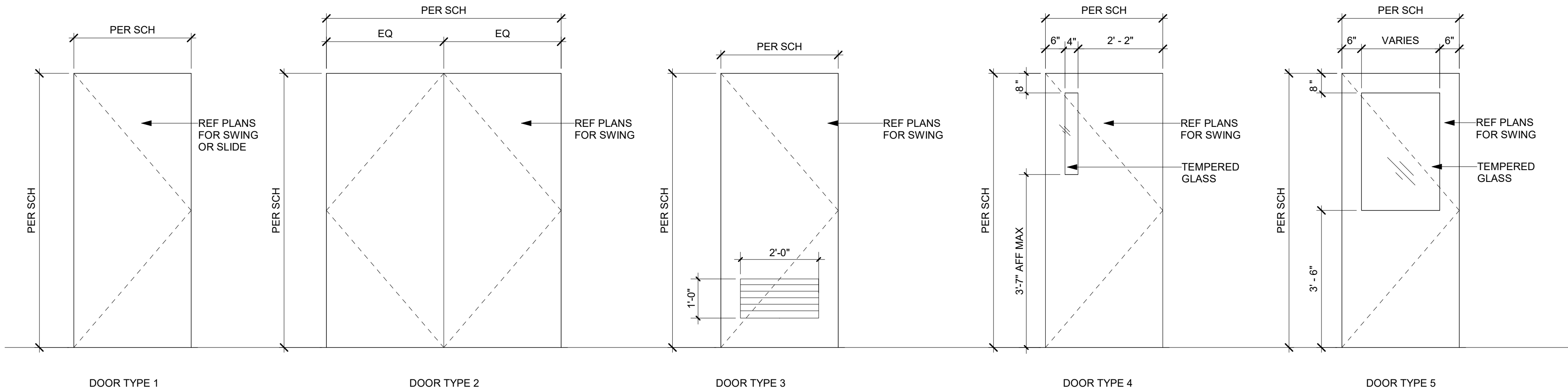
FRAME TYPE 2

FRAME TYPE 3

FRAME TYPE 4

FRAME TYPE 5

DOOR FRAME TYPES
1/2" = 1'-0"



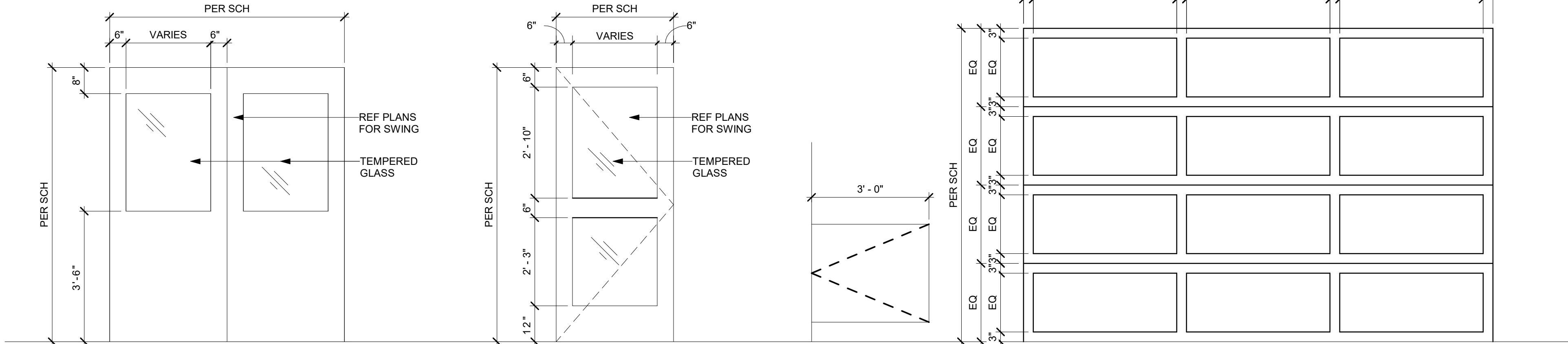
DOOR TYPE 1

DOOR TYPE 2

DOOR TYPE 3

DOOR TYPE 4

DOOR TYPE 5



DOOR TYPE 6

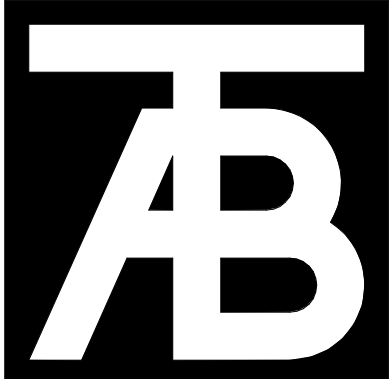
DOOR TYPE 7

DOOR TYPE 8
HALF DOOR
REF 6/A5.60

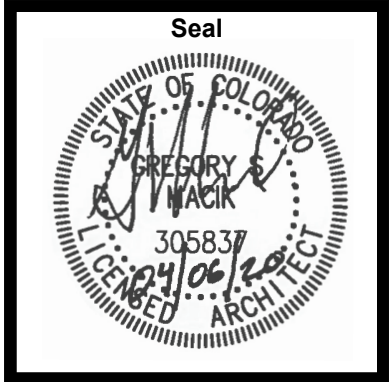
DOOR TYPE 9
HALF DOOR

DOOR TYPES
1/2" = 1'-0"

COLOR AND MATERIALS SCHEDULE - BASIS OF DESIGN							
SYMBOL	GENERAL_ LOCATION	MANUFACTURER	PRODUCT NAME	COLOR / FINISH	SIZE	REMARKS	HEADER
ACOUSTIC PANEL CEILING							
APC-1	CLASSROOMS/CAFETERIA	ARMSTRONG	FINE FISSURED-HIGH ACOUSTICS SQUARE LAY-IN - 1714	WHITE W/ WHITE GRID	24" x 48"x34"	NRC: .55	ACOUSTIC PANEL CEILING
APC-2	LEARNING COMMONS CLOUDS	ARMSTRONG	FINE FISSURED-HIGH ACOUSTICS SQUARE LAY-IN - 1714	WHITE W/ WHITE GRID	24" x 48"x34"	CLOUD EDGE - 6" AXIOM	ACOUSTIC PANEL CEILING
ACOUSTIC WALL PANEL							
AWP-1	CAFETORIUM	KINETICS	HARDSIDE	TBD		GUILFORD OF MAINE FABRIC	ACOUSTIC WALL PANEL
BASE							
B-1	GENERAL WALL BASE	ROPPE	VINYL - TYPE TP - 700 SERIES	100 BLACK	4" H		BASE
CARPET							
CPT-1	FIELD	TANDUS CENTIVA	APPLAUSE III	QUINCE	TILES	UNIDIRECTIONAL	CARPET
CORNER GUARD							
CG-1		INPRO CORP	TAPE ONCORNER GUARDS	SILVER WHITE 0105	WIDTH- 1.5" HEIGHT- 4'-0"	INSTALL AT TOP OF BASE	CORNER GUARD
DOORS							
DR-1	INTERIOR DOORS	VT INDUSTRIES	MATCH EX.	MATCH EX.			DOORS
FIBRE-REINFORCED PLASTIC							
FRP-1	MOP SINKS	MARLITE	STANDARD PEBBLE SURFACE	P199 BRIGHT WHITE			FIBRE-REINFORCED PLASTIC
GROUT							
G-1	FOR WALL TILE T-1, T-3	MAPEI	EPOXY	CHARCOAL 47			GROUT
G-2	FOR FLOOR TILE T-2	MAPEI	EPOXY	CHARCOAL 47			GROUT
LUXURY VINYL TILE							
LVT-1	CAFTERIA/CAFETORIUM	TARKETT	CONTOUR MODERN WOOD	OAKHURST 3824	6X36		LUXURY VINYL TILE
PAINT							
P-1	FIELD PAINT	SHERWIN WILLIAMS	KWALL PAINT, DISTRICT STANDARD				PAINT
P-3	INTERIOR DOOR AND WINDOW FRAMES	SHERWIN WILLIAMS	MATCH EX.	MATCH EX.			PAINT
PLASTIC LAMINATE							
PL-1	CASEWORK - VERTICAL SURFACES	WILSONART	PLASTIC LAMINATE	BRONZE LEGACY 4656-60			PLASTIC LAMINATE
SEALED CONCRETE FLOORING							
SC-1		-	CONCRETE, SEALED		-		SEALED CONCRETE FLOORING
SOLID SURFACE							
SS-1	COUNTERTOPS AND WINDOW SILLS	CORIAN	SOLID SURFACING 13MM	DEEP ANTHRACITE	13MM		SOLID SURFACE
TACKBOARD							
TBD-1	GENERAL TACKBOARD	FORBO	BULLETIN BOARD	2182 - POTATO SKIN	48"X72"	SATIN ANODIZED ALUMINUM TRIM, SEE PLAN FOR SIZE	TACKBOARD
TILING							
T-1	RESTROOM WALL TILE	AMERICAN OLEAN	NEOCONCRETE	BEIGE NEJI-MATTE	24X24	INSTALL IN ALL RESTROOMS	TILING
T-2	RESTROOM FLOOR TILE	DALTILE	CHORD	ALLEGRO BEIGE CH21-UNPOLISHED	24X24	INSTALL IN ALL RESTROOMS	TILING
T-3	KITCHEN WALL TILE	DALTILE	COLOR WHEEL LINEAR	K175 GLOSS BISCUIT	6X18	INSTALL IN KITCHEN	TILING
T-4	RESTROOM WALL TILE	AMERICAN OLEAN	NEOCONCRETE	BEIGE NEJI-MATTE	6X24	CMU WALLS IN ALL RESTROOMS	TILING
T-5	MOSAIC AT FLOOR DRAINS	DALTILE	CHORD	ALLEGRO BEIGE CH21-UNPOLISHED	12X12	MOSAIC SHEET AT FLOOR DRAINS	TILING
TOILET PARTITIONS							
TP-1	TOILET ROOMS	BOBRICK	HDPL	DESERT ZEPHYR 4841-60			TOILET PARTITIONS
TRANSITIONS							
TR-1	RESTROOM WALL TILE EDGE TRIM	SCHLUTER	DILEX-AHK	SATIN ANODIZED ALUMINUM	HEIGHT TO MATCH TILE AND SETTING BED THICKNESS		TRANSITIONS
TR-2	CARPET TO LVT	JOHNSONITE	CTA-XXX-H	BLACK 40	INSTALLER TO VERIFY SIZE		TRANSITIONS
TR-3	TILE TO LVT	SCHLUTER	RENO-TK	AE	INSTALLER TO VERIFY SIZE		TRANSITIONS
TR-4	CARPET TO CARPET	JOHNSONITE	CTA-XXX-N	BLACK 40	INSTALLER TO VERIFY SIZE		TRANSITIONS
WALK OFF CARPET							
WOC-1		TANDUS CENTIVA	ASSERTIVE ACTION 04837	CHROMIUM 26201	24X24 MODULAR		WALK OFF CARPET
WINDOW SHADE							
WS-1	WINDOW SHADES	HUNTER DOUGLAS	GLACIER SCREEN HD1005	WHITE/SAND			WINDOW SHADE
WOOD							
WD-1		-	FURNITURE GRADE PLYWOOD	MATCH EX.	SEE ELEVATION FOR SIZE	-	WOOD
WD-2			FURNITURE GRADE PLYWOOD	MATCH EX.	SEE ELEVATION FOR SIZE	EACH HOUSE (4 TOTAL) TO RECEIVE A DIFFERNT COLOR STAIN. SEE ELEVATION FOR COLOR.	WOOD



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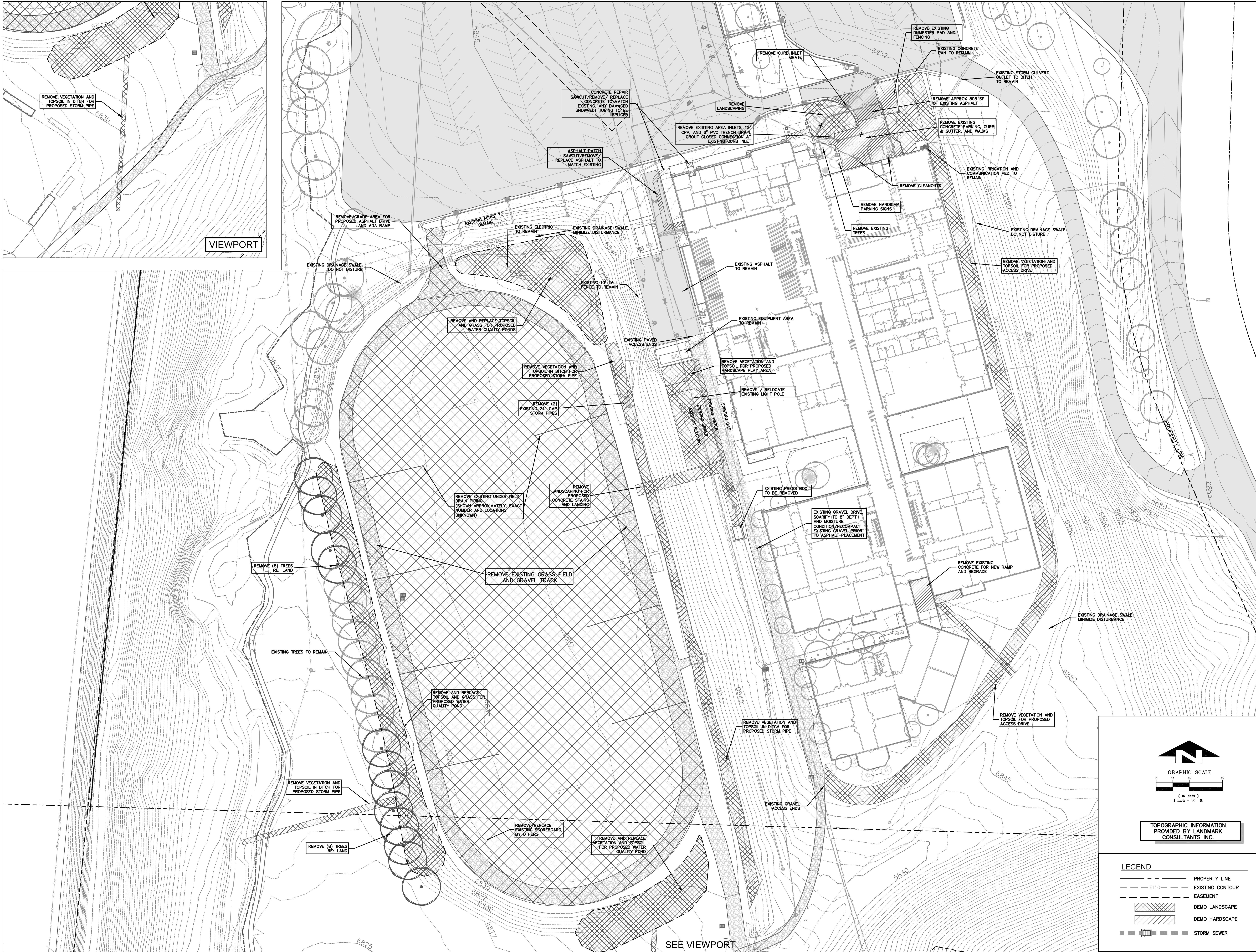
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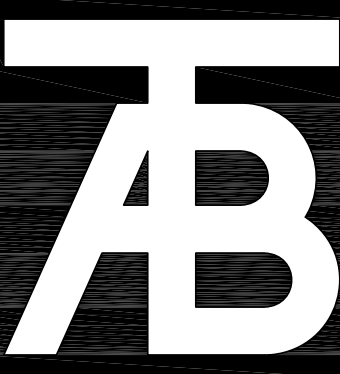
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Room Finish Schedule

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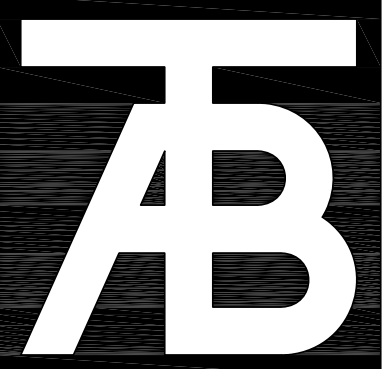
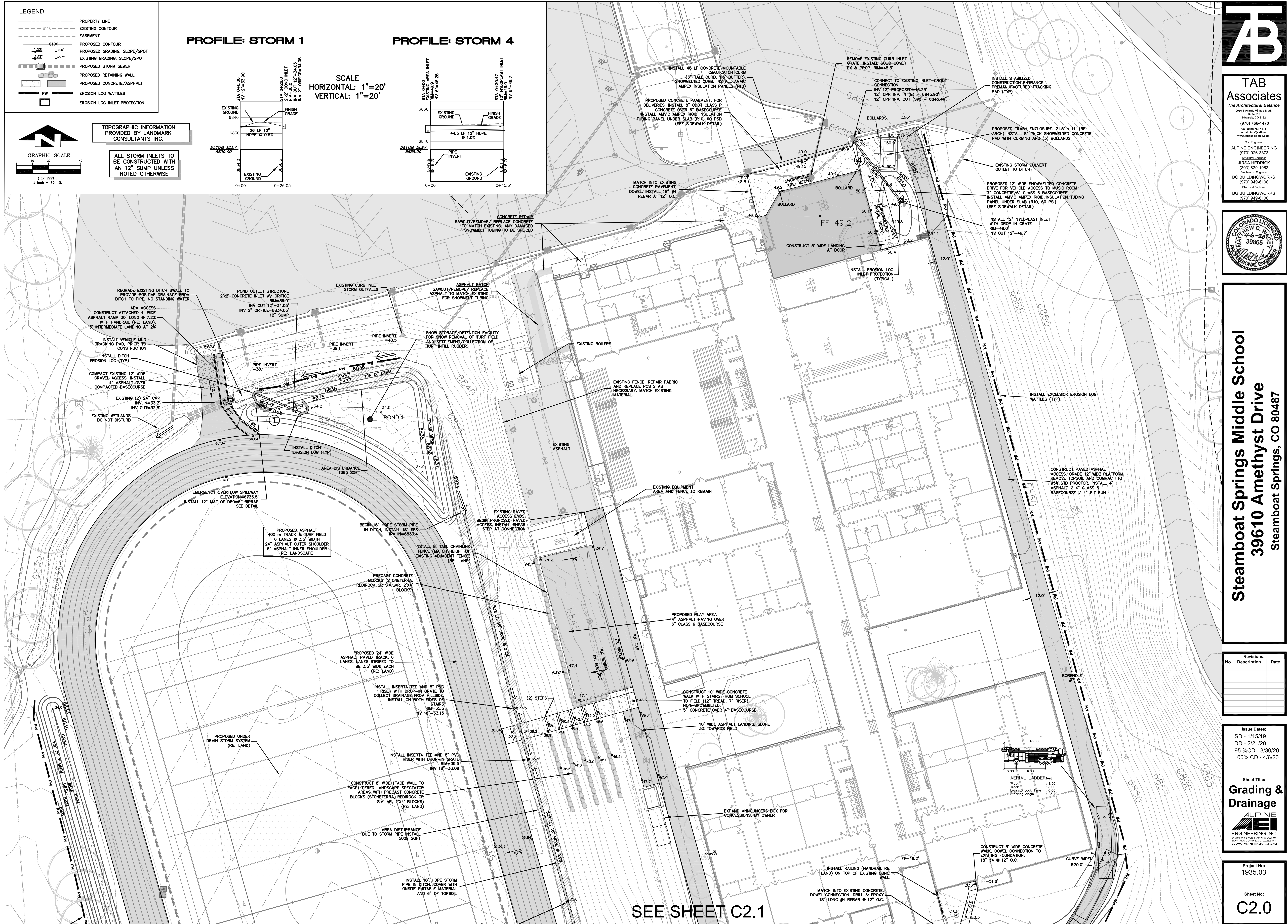
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100% CD - 4/6/20

Sheet Title:
Demolition Plan

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WWW.ALPIENGINEERING.COM

Project No:
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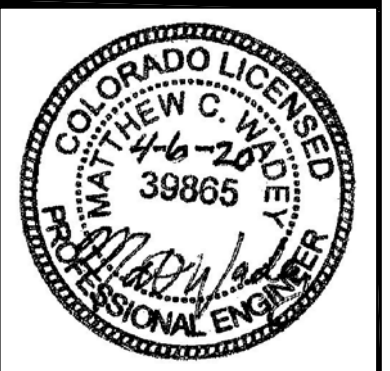
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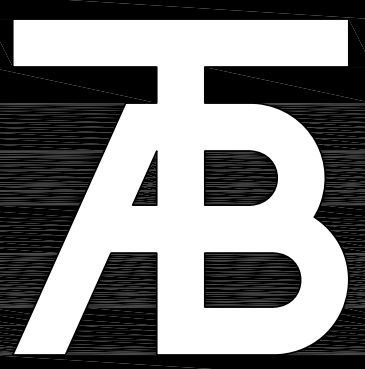
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Structural Engineer
JIRSA HEDRICK
(303) 839-1963
Mechanical Engineer
BG BUILDINGWORKS
(970) 949-6108
Electrical Engineer
BG BUILDINGWORKS
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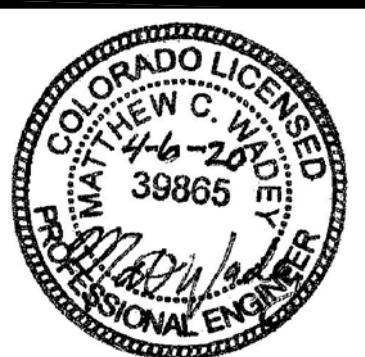
Steamboat Springs Middle School
39610 Amethyst Drive
Steamboat Springs, CO 80487



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0606 Edwards Village Blvd.
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Steamboat Springs, CO 80487

Revisions:		
No	Description	Date

Issue Dates:
SD - 1/15/19
DD - 2/21/20
95% CD - 3/30/20
100% CD - 4/6/20

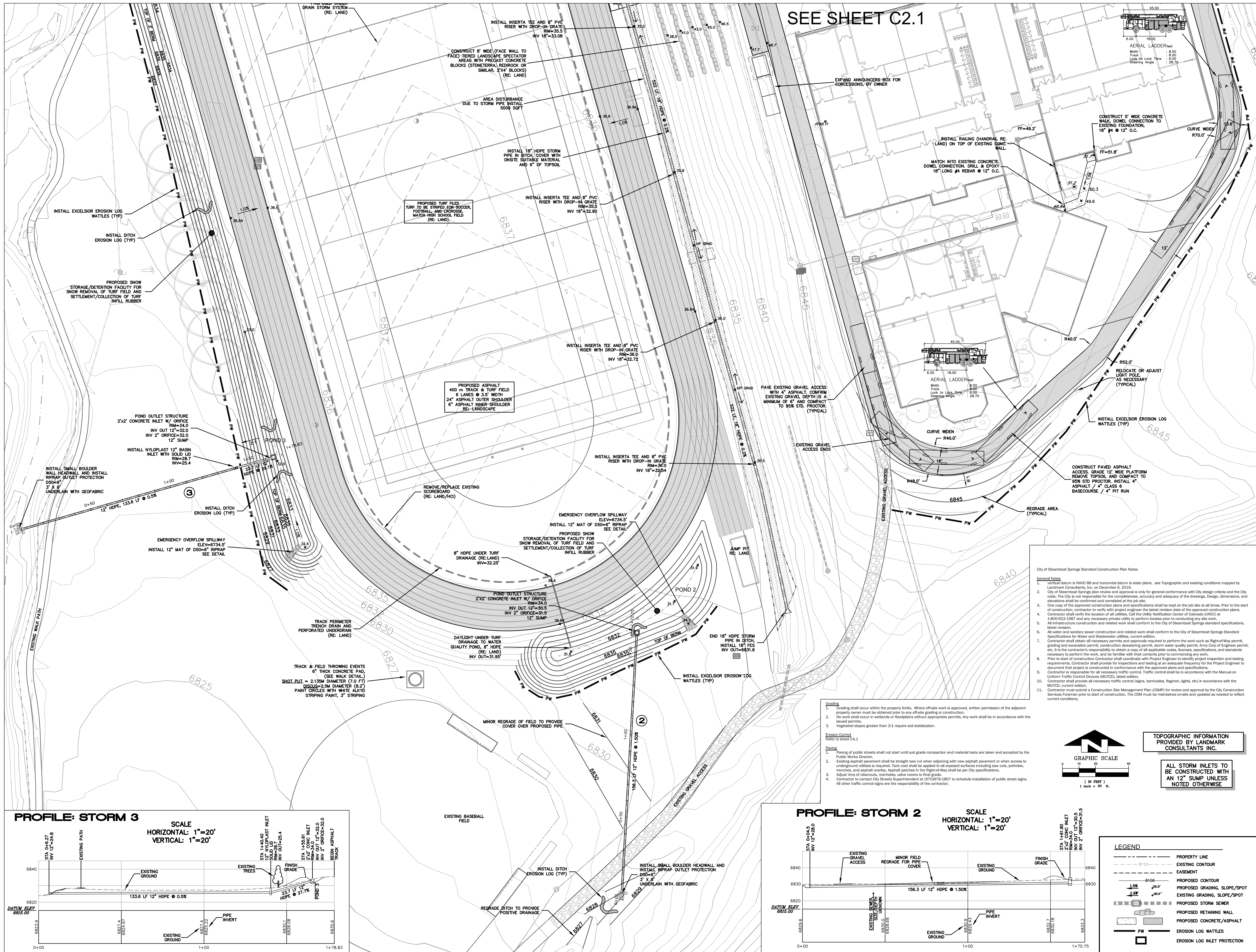
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Grading & Drainage



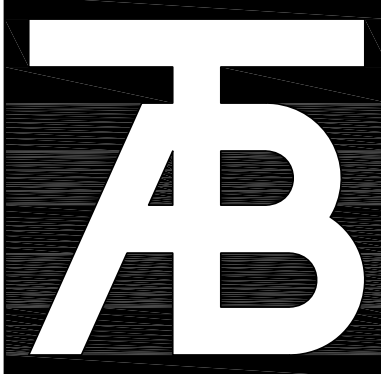
Project No:
1935.03

Sheet No:
C2.1

SEE SHEET C2.1



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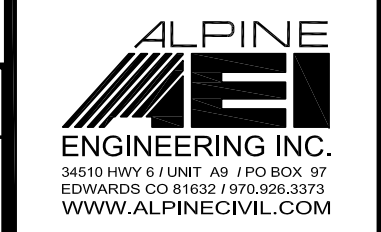


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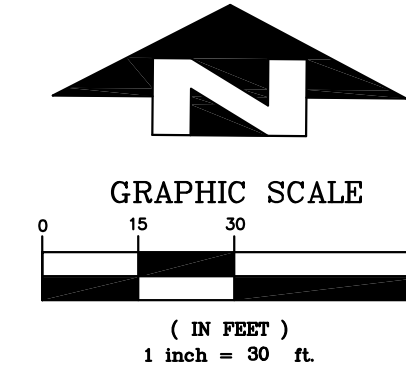
Sheet Title:
Utility Plan



Project No:
1935.03

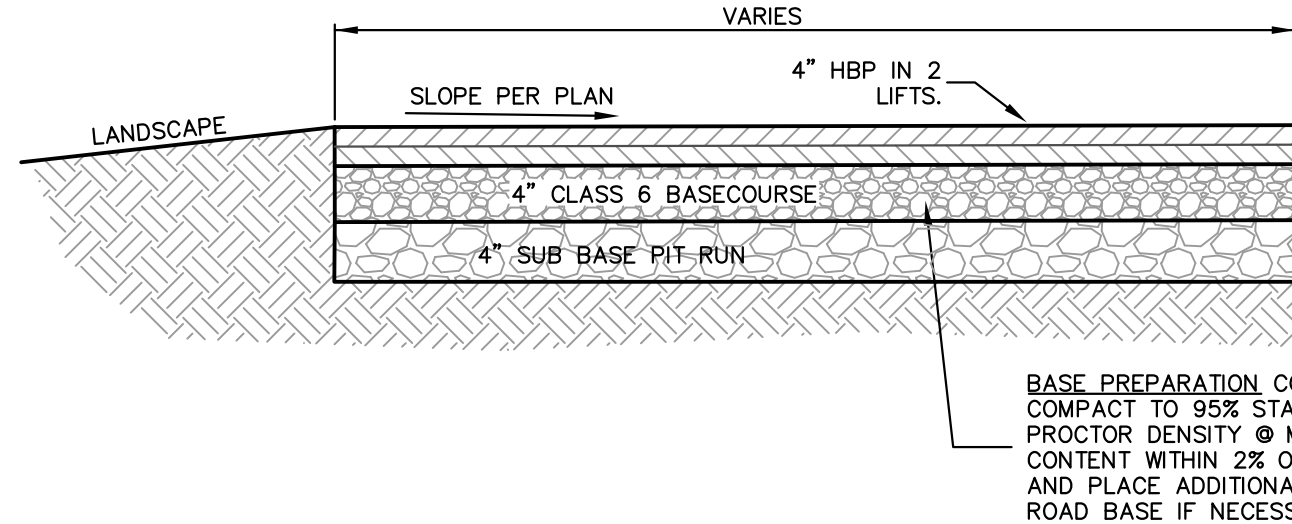
Sheet No:
C3.0

UTILITY PROVIDERS:
WATER: CITY OF STEAMBOAT
SEWER: CITY OF STEAMBOAT
ELECTRIC: YAMPA VALLEY ELEC.
GAS: ATMOS ENERGY
INTERNET/PHONE: CENTURY LINK
/MAMMOTH NETWORKS

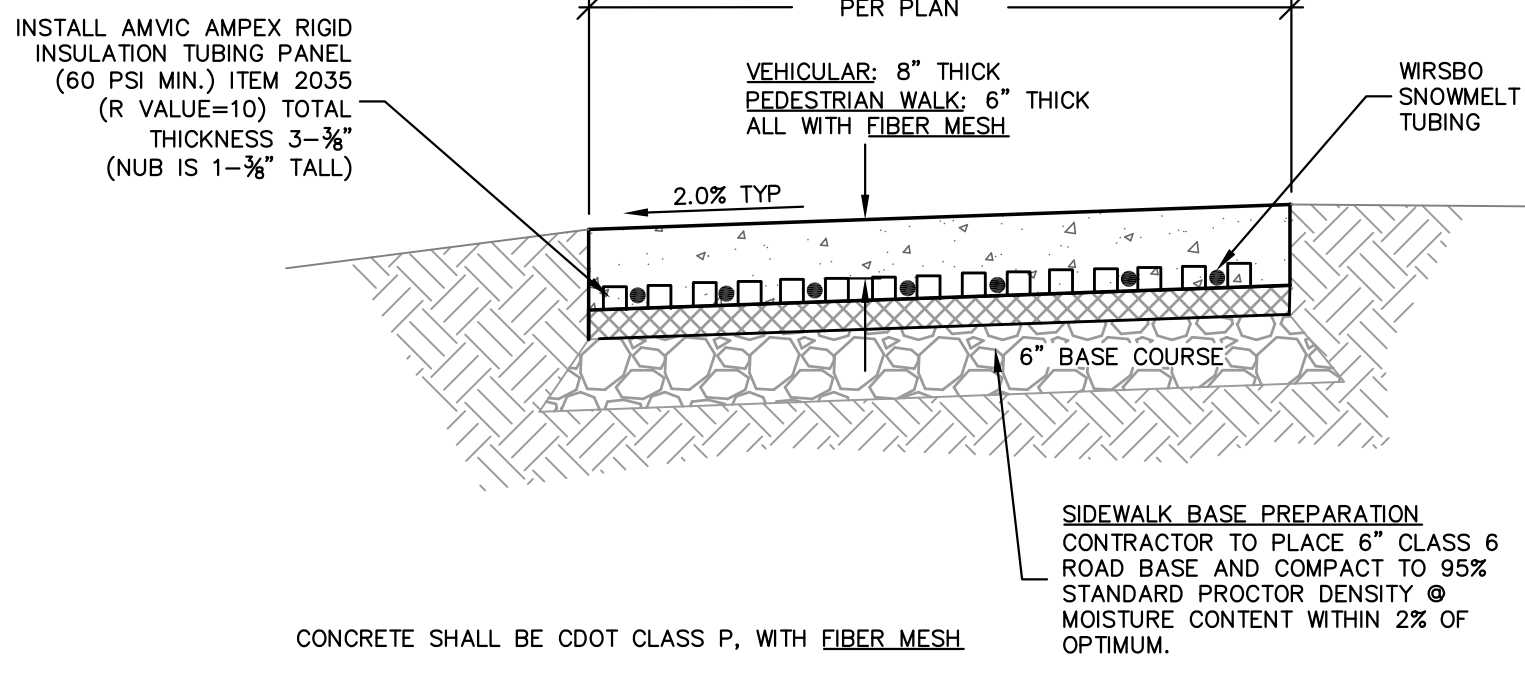


LEGEND	
—XE—	EXISTING ELECTRIC
—XTV—	EXISTING COMM. SERVICE
—XG—	EXISTING GAS
—XW—	EXISTING WATER
—XS—	EXISTING SEWER
—XFS—	FIRE HYDRANT W/GV
—XSS—	STORM SEWER
—PSL—	PROP. SNOWMELT LINES
—PC—	PROP. CONDUIT

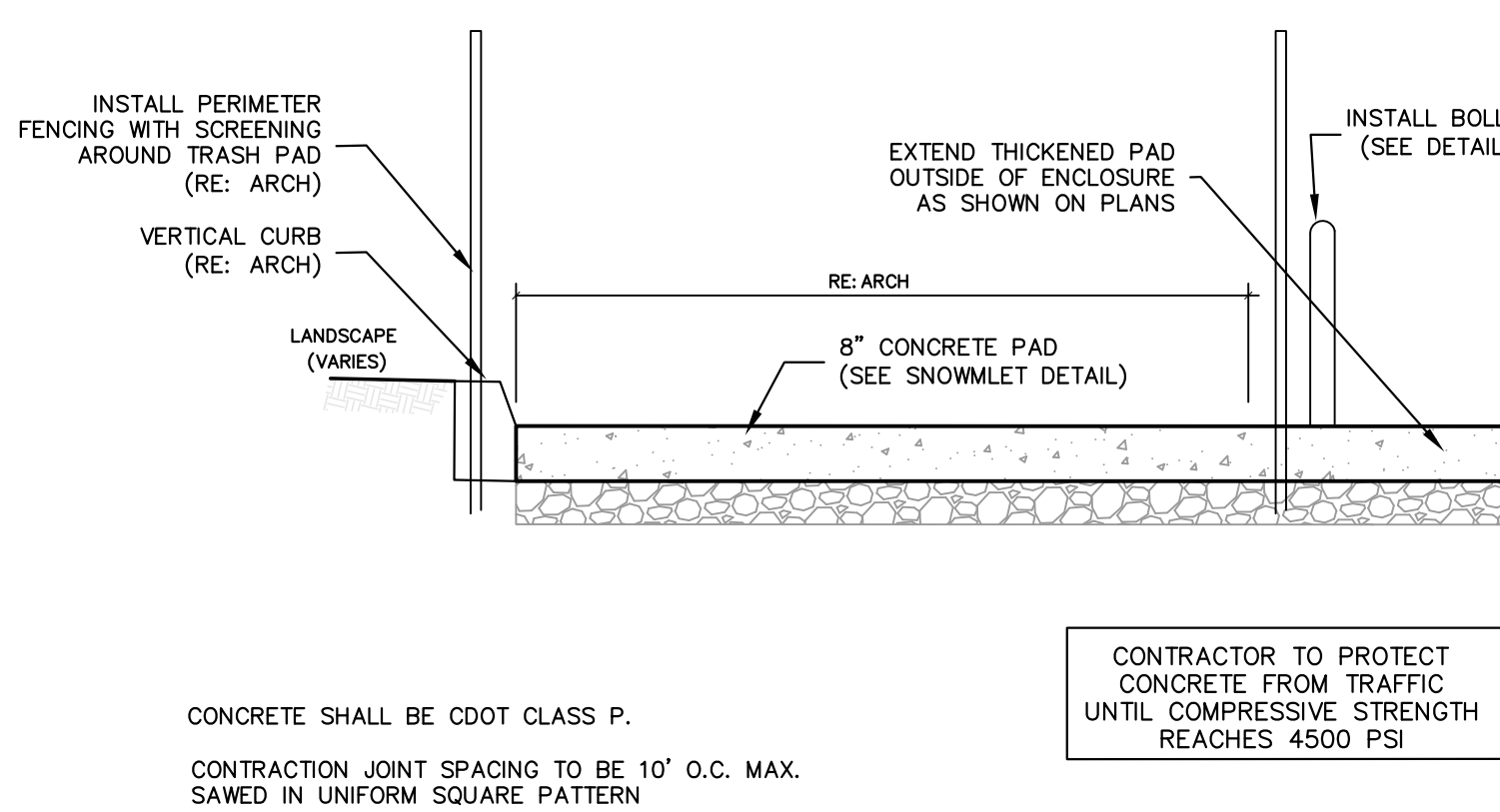
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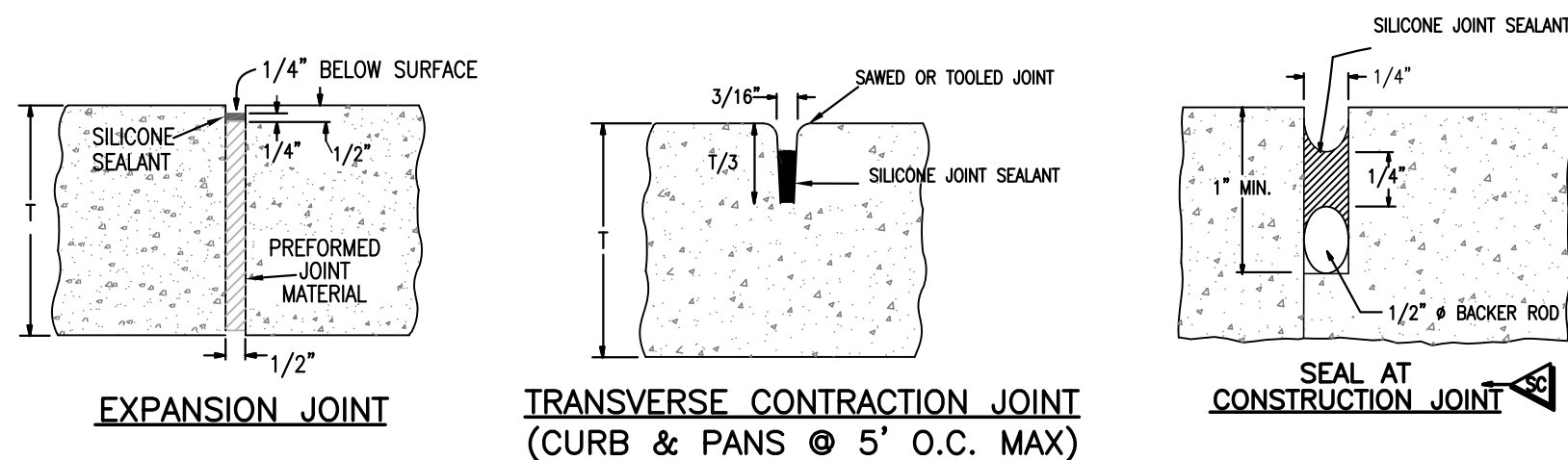
ASPHALT DRIVE/PARKING SECTION
NTS



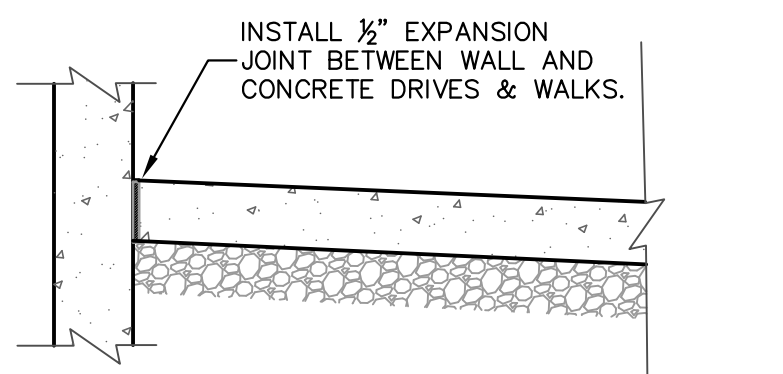
SNOWMELTED CONCRETE



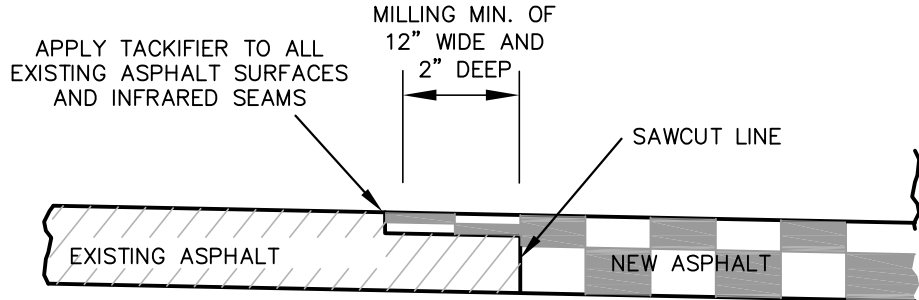
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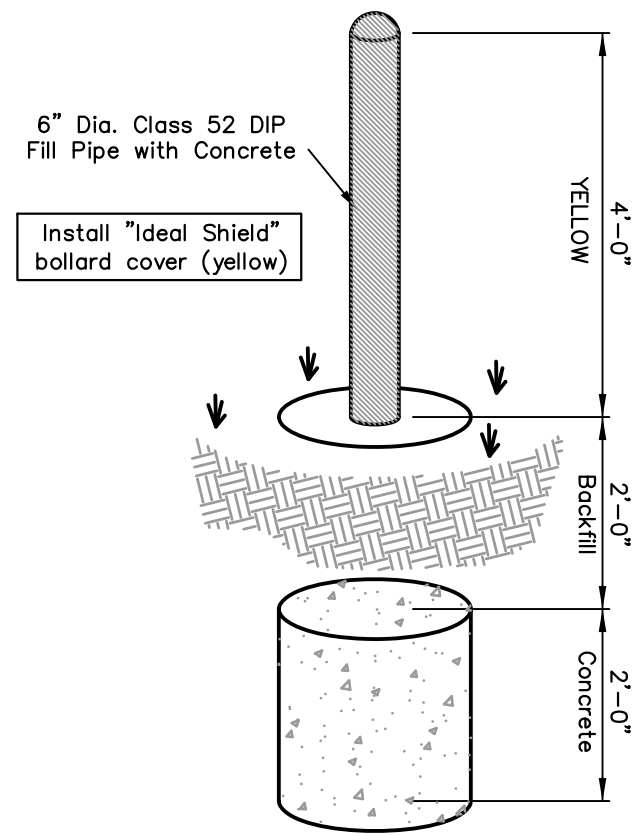
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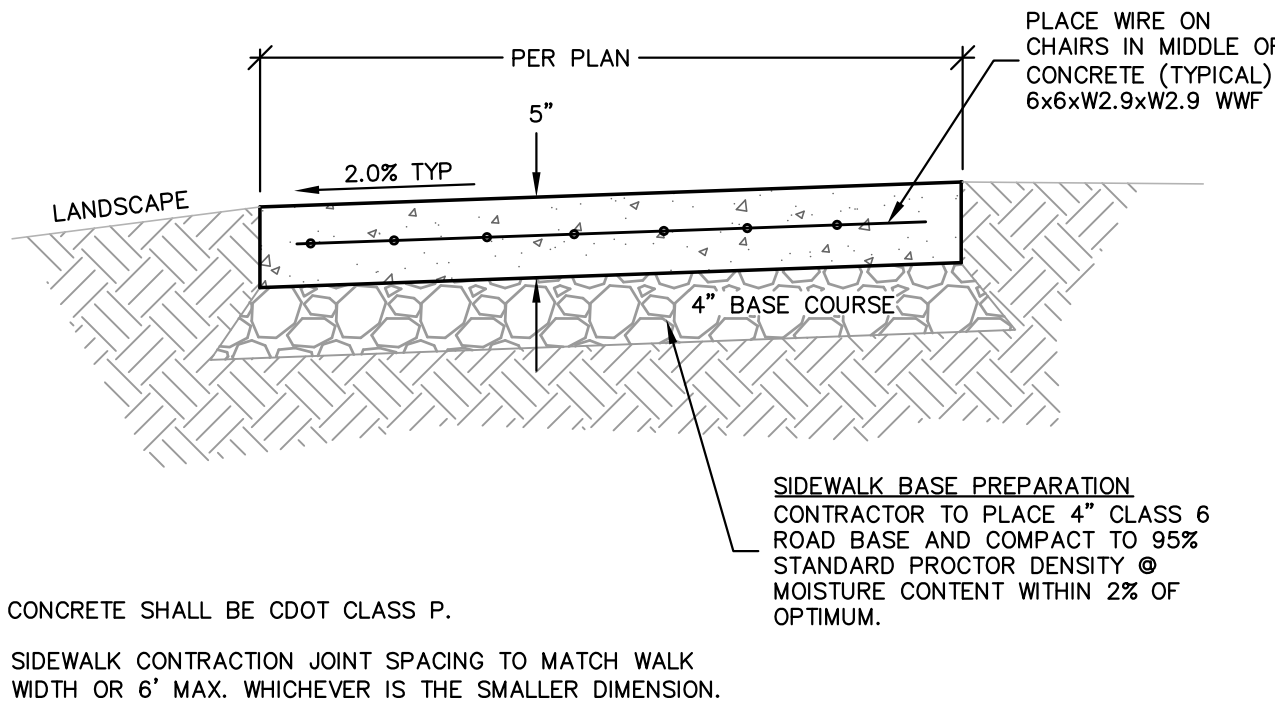
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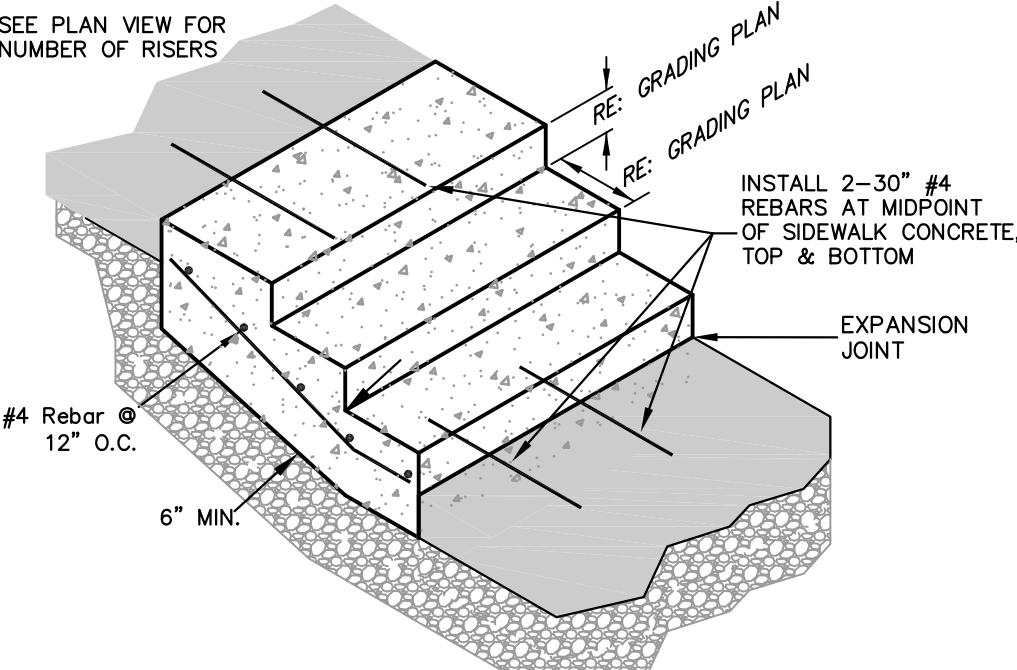
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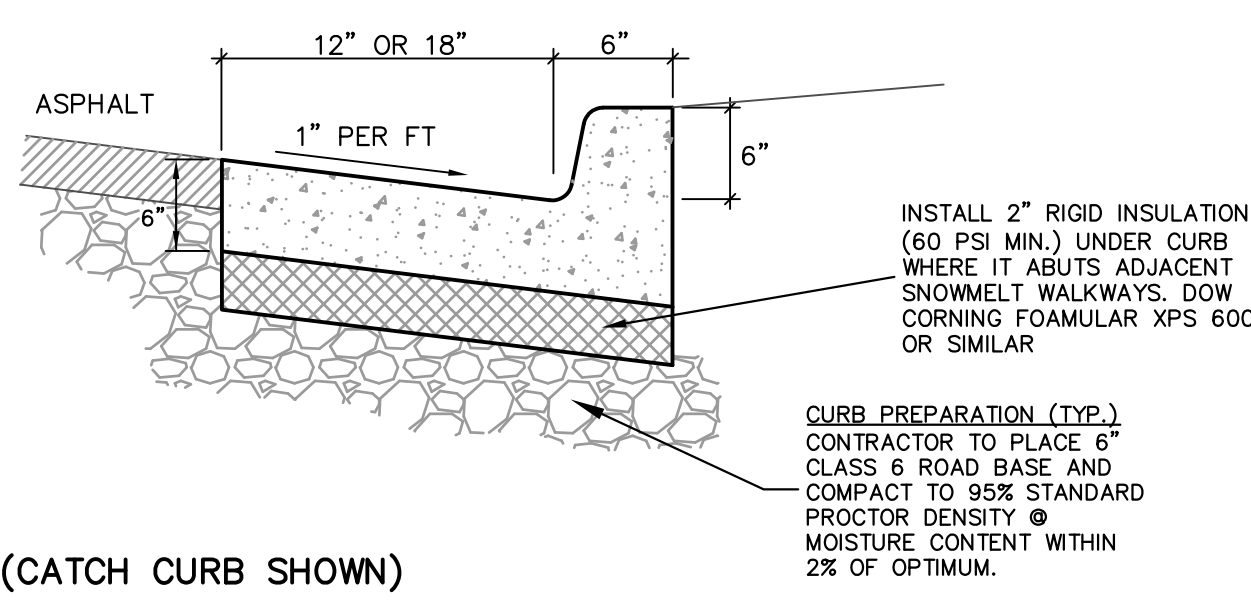
BOLLARD



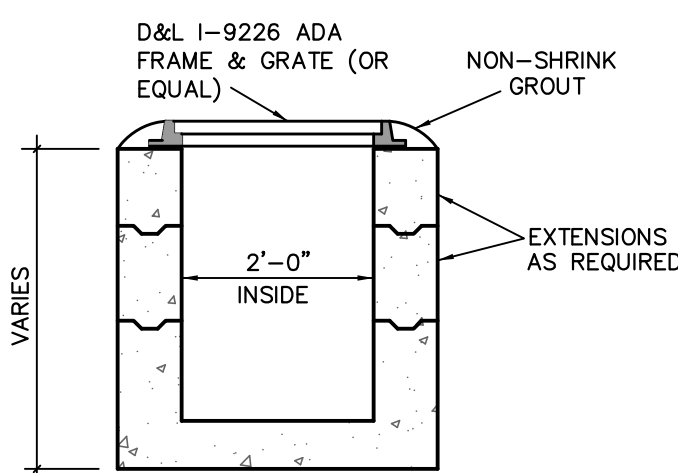
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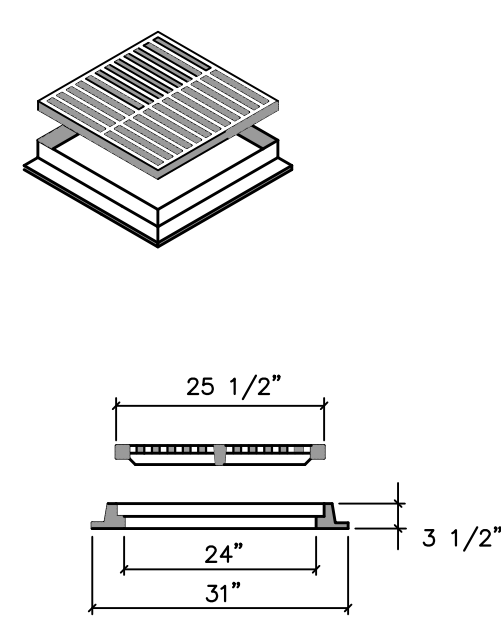
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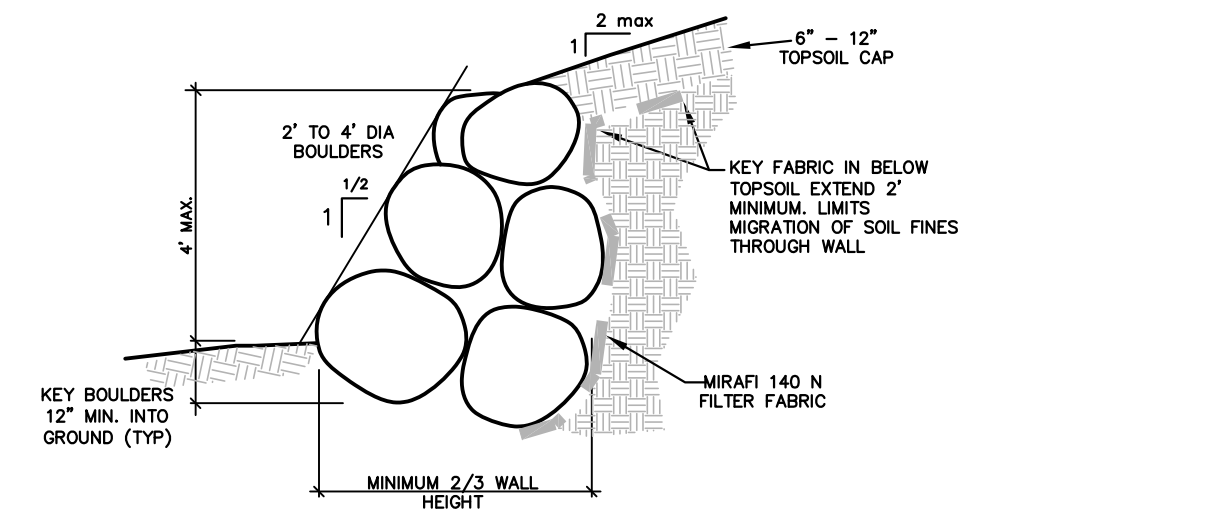
6" VERTICAL CURB AND GUTTER
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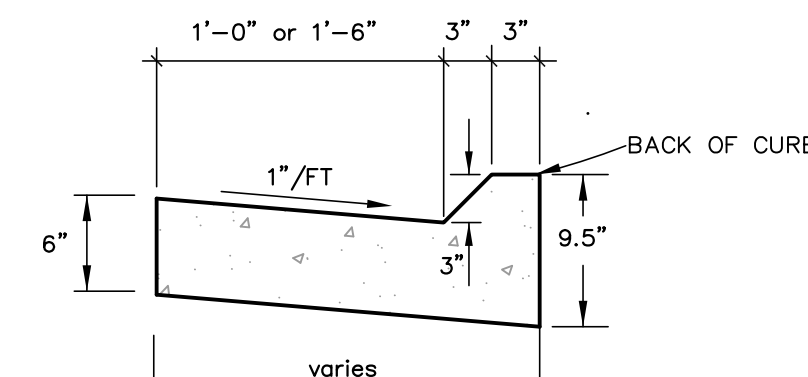
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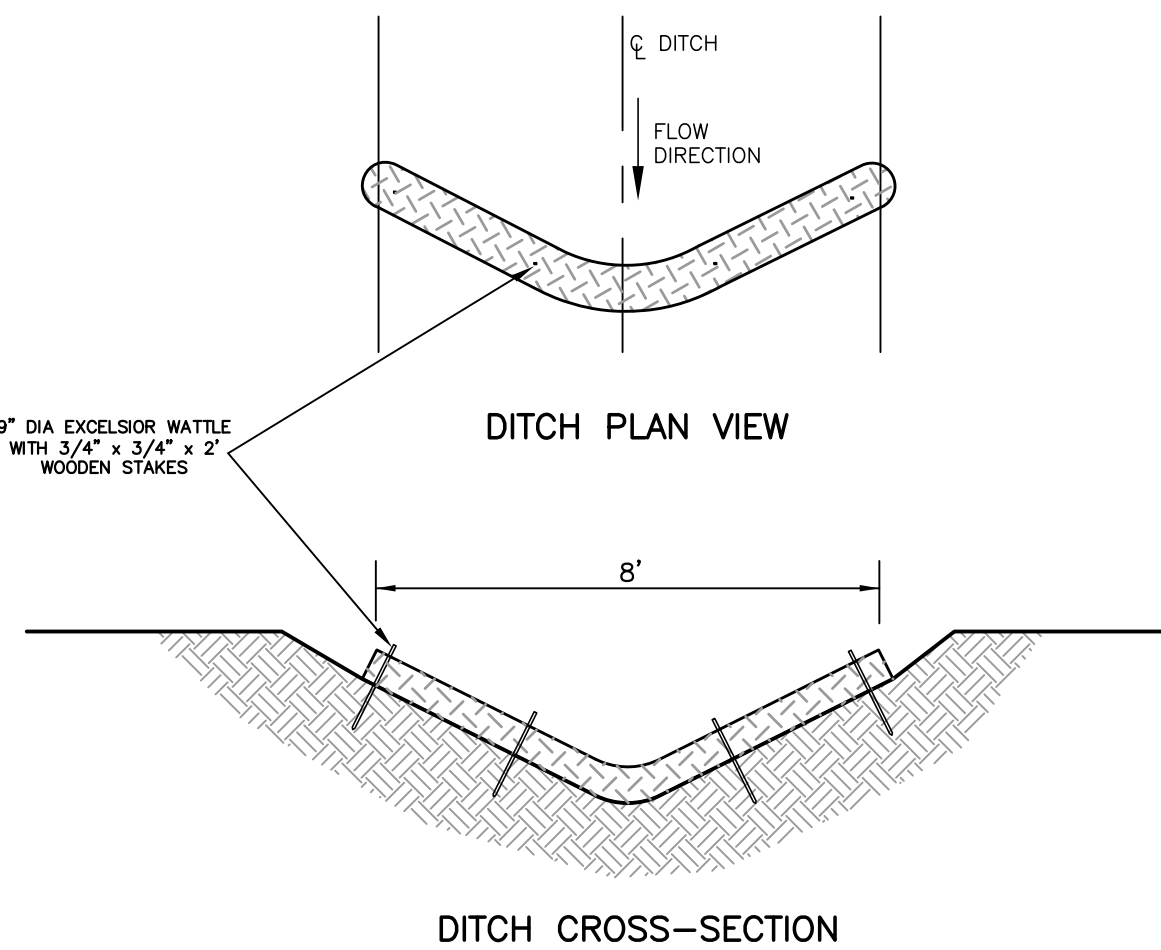
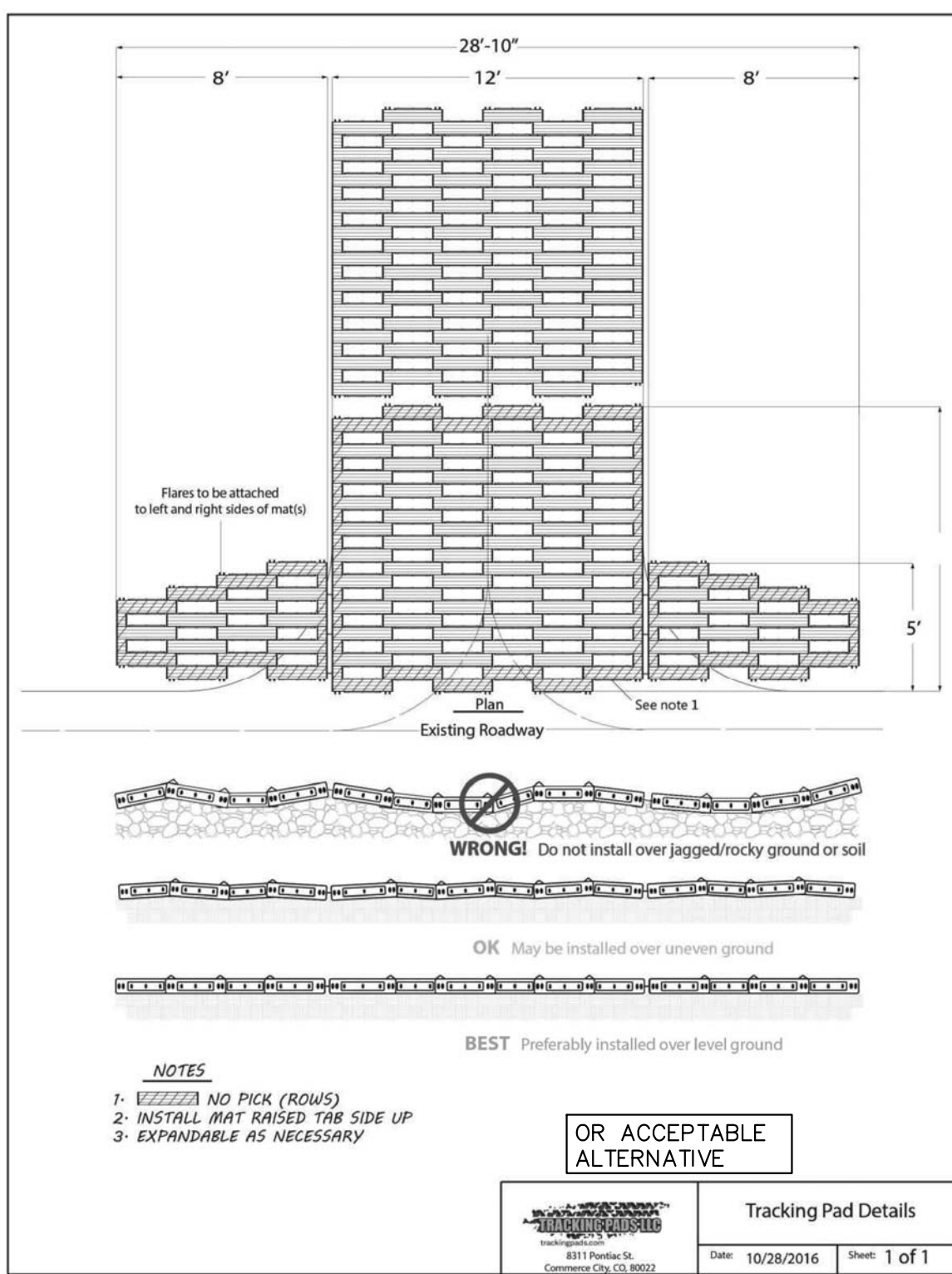
STORM SEWER BEDDING



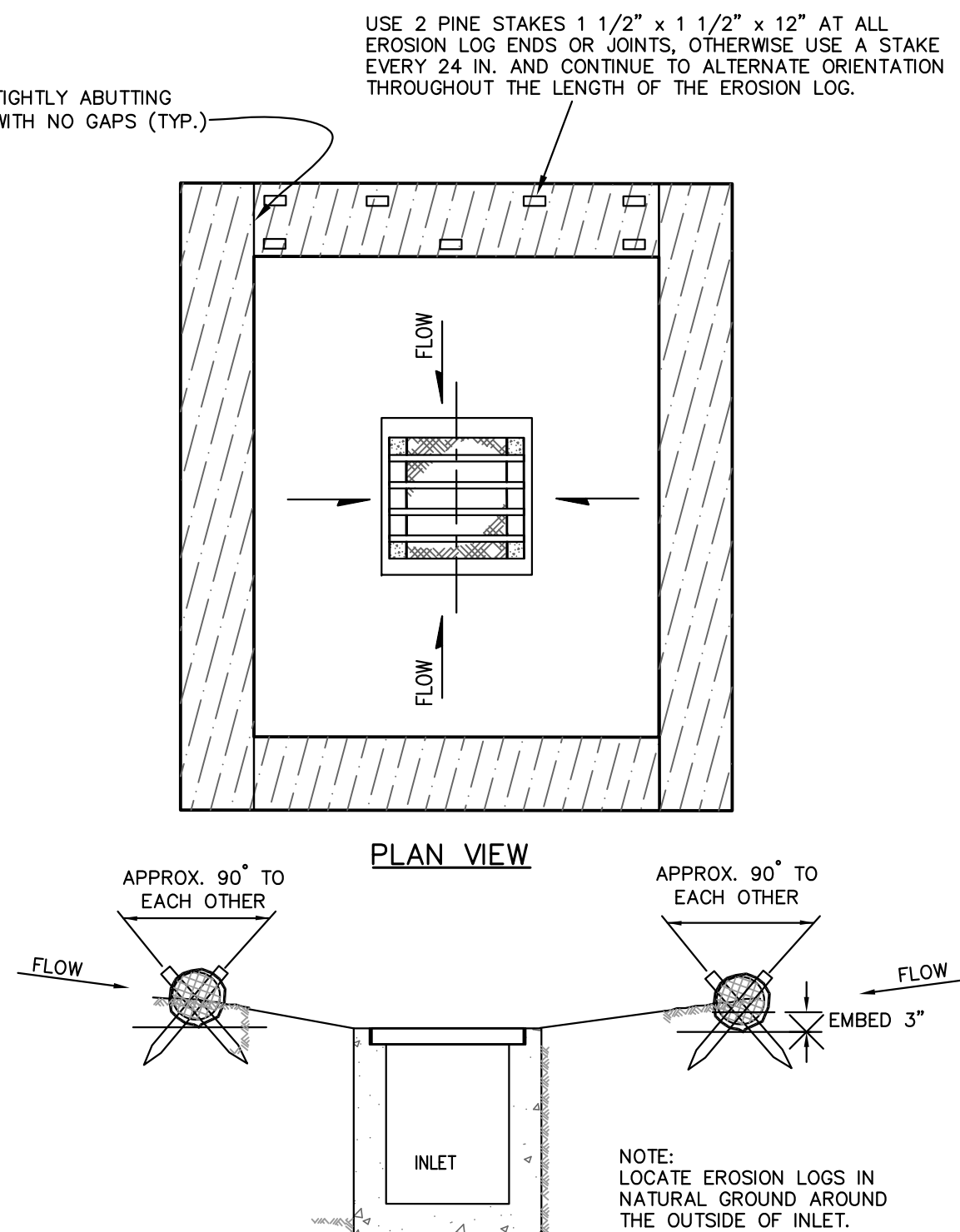
BOULDER WALL



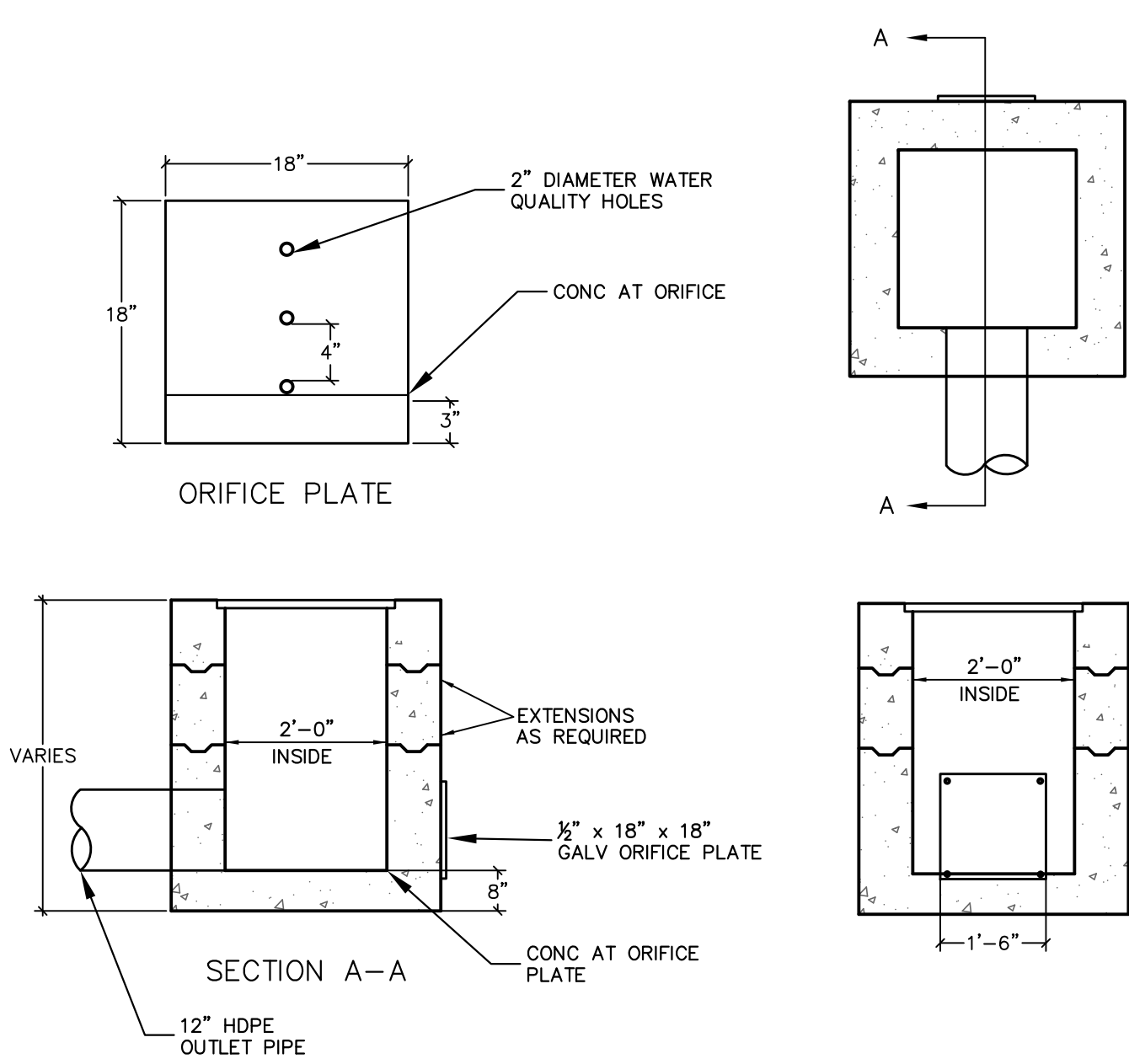
MOUNTABLE CURB DETAIL



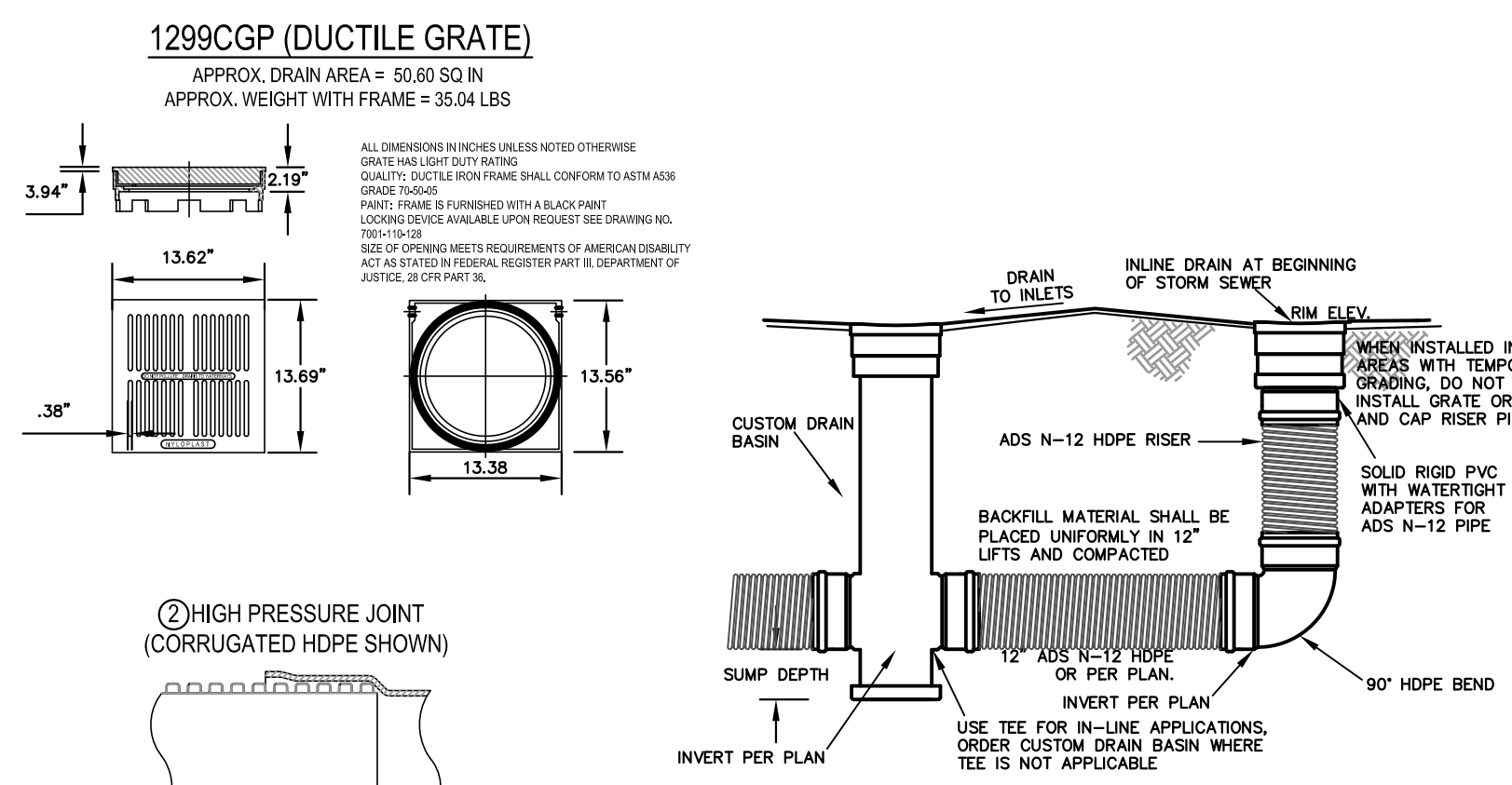
DITCH EROSION LOG DETAIL
N.T.S.



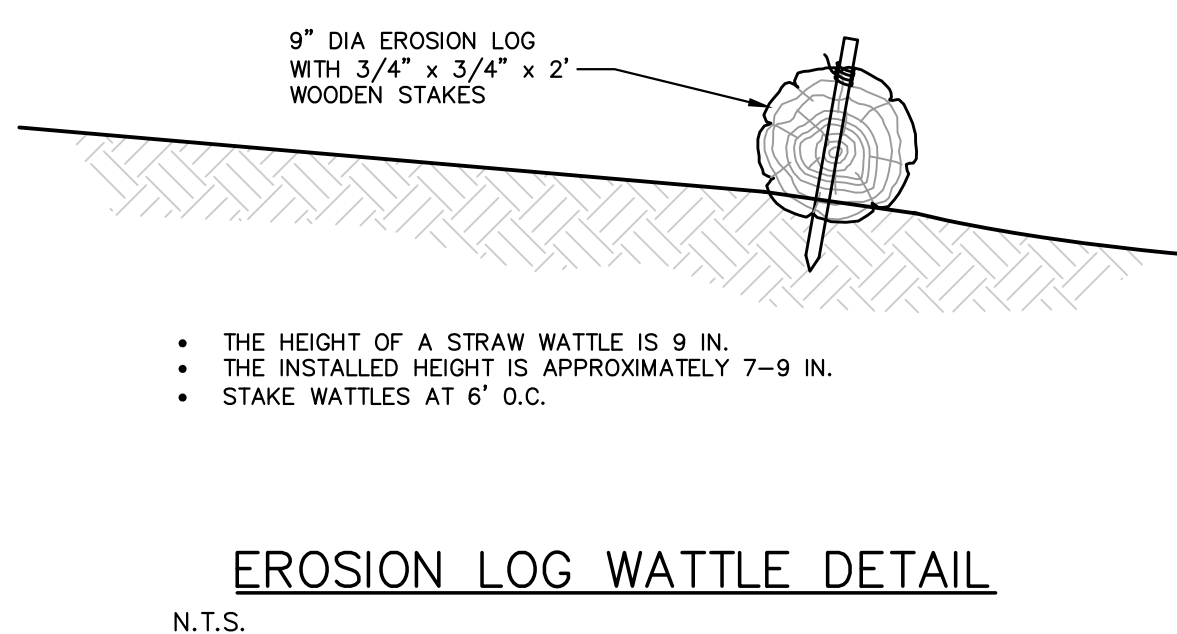
EROSION LOG INLET PROTECTION



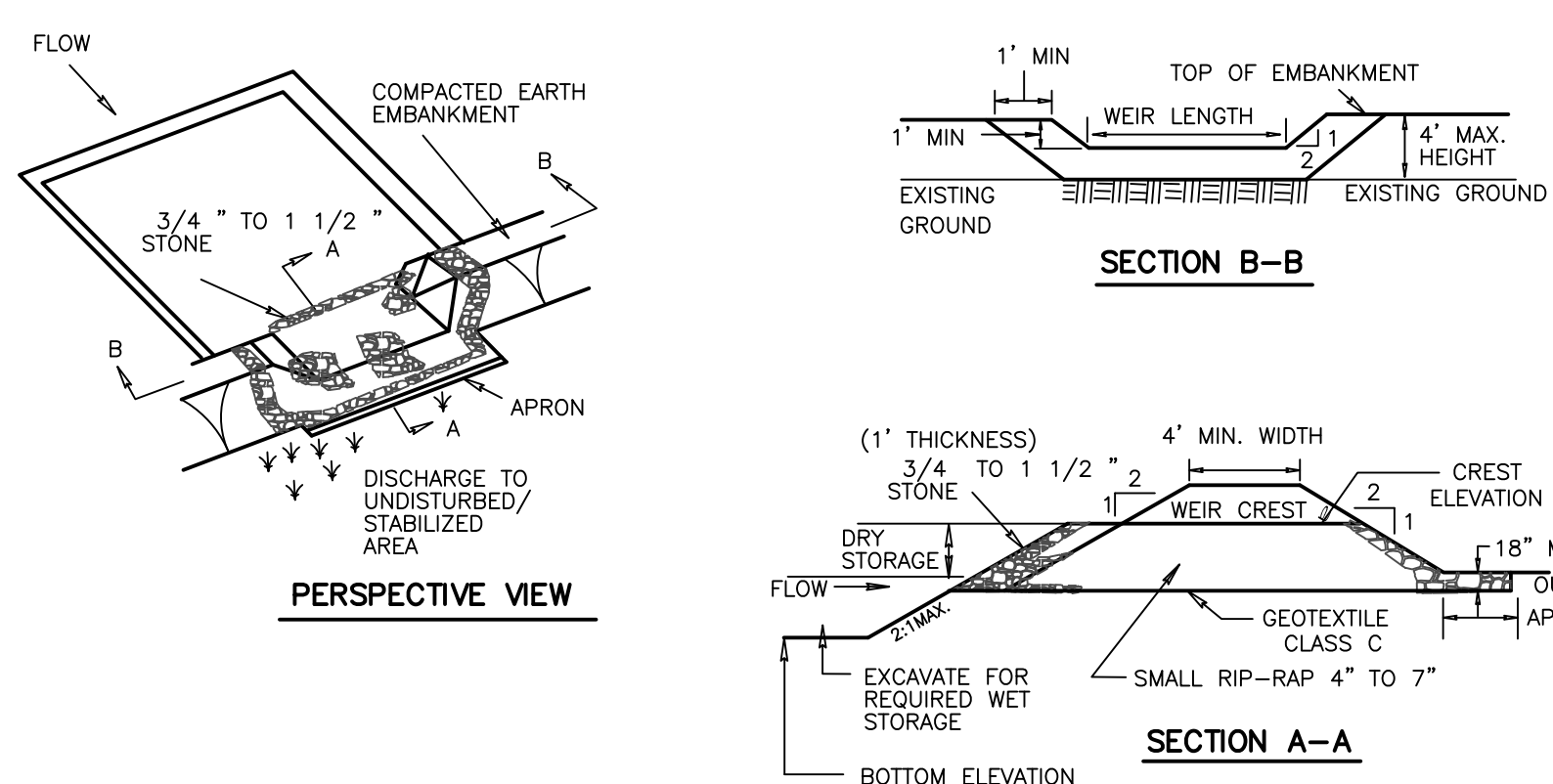
OUTLET STRUCTURE DETAIL
NTS



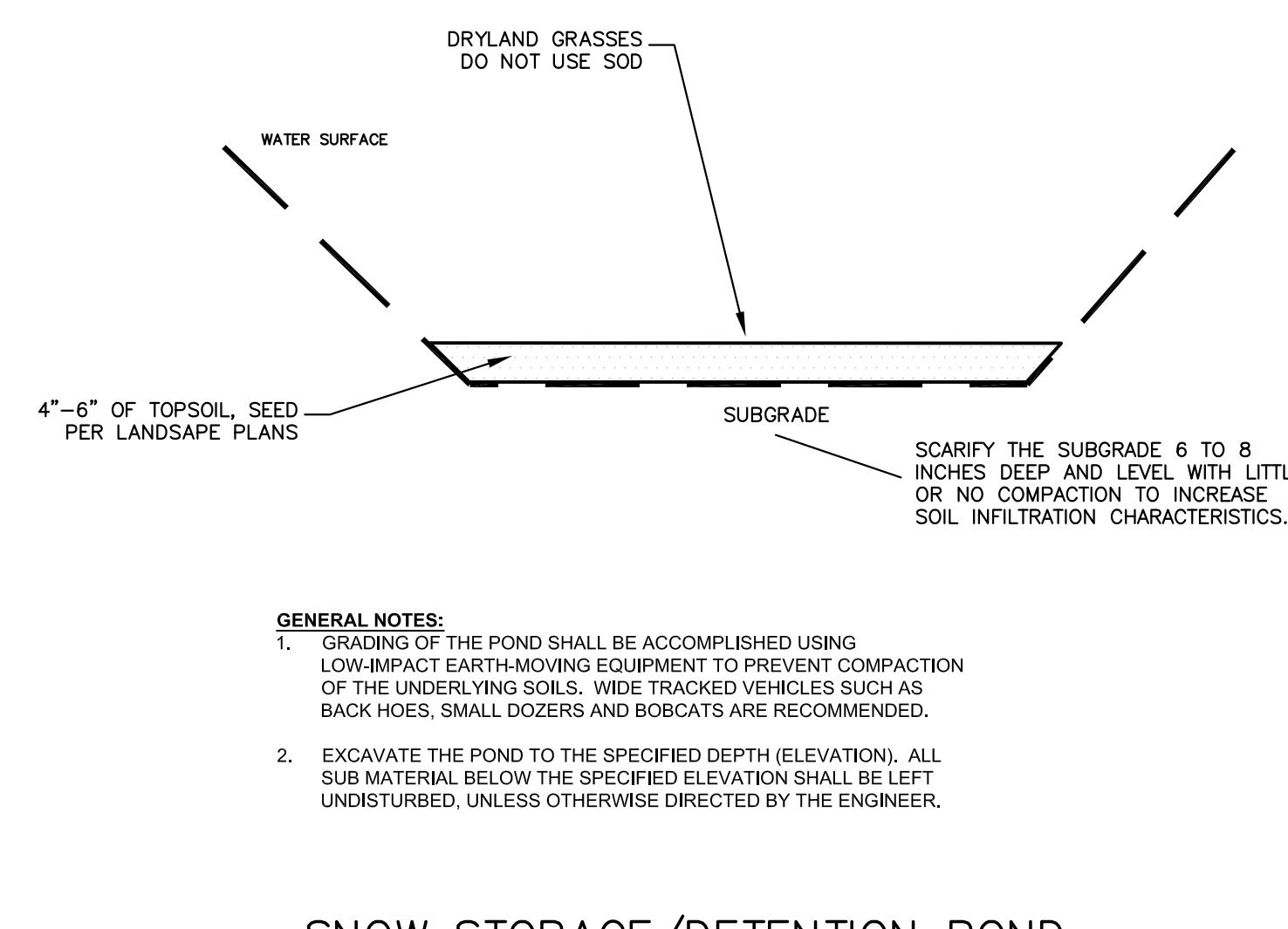
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N.T.S.



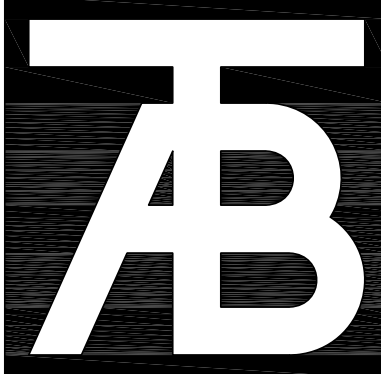
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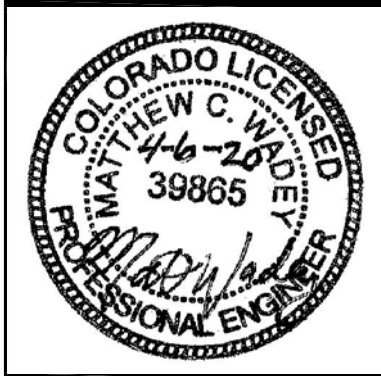
EMERGENCY SPILLWAY DETAIL



SNOW STORAGE/DETENTION POND



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95 % CD - 3/30/20
100% CD - 4/6/20

Sheet Title:
Grading & Drainage Details
ALPINE ENGINEERING INC.
ENGINEERS & ARCHITECTS
EDWARDS CO 9760 FARMINGTON
WWW.ALPIENGINEER.COM

Project No:
1935.03
C4.0

C:\Steamboat\School Renovations\2019\DWG\Master\Steamboat_School_MSDetails\SSN.dwg, 4/3/2020 9:24:03 AM, mcsley

REFER TO CITY OF STEAMBOAT'S
STANDARD SPECIFICATIONS FOR
WATER AND WASTEWATER
UTILITIES

EROSION/SEDIMENT CONTROL

GENERAL NOTES FOR SEDIMENT CONTROL

- CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING & MANAGEMENT PLAN IDENTIFYING CONSTRUCTION FENCING, STAGING, STORAGE & CONSTRUCTION TRAILER LOCATION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- INSTALL AND MAINTAIN SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THESE PLANS AND AS NEEDED TO PREVENT SEDIMENT FROM DISCHARGING OFF-SITE.
- ALL PROPOSED SEDIMENT CONTROL MEASURES ARE TEMPORARY MEASURES UNLESS SPECIFIED OTHERWISE ON PLANS.
- SEDIMENT CONTROL MEASURES MAY REQUIRE FIELD ADJUSTMENTS AT THE TIME OF CONSTRUCTION TO INSURE THAT THEIR INTENDED PURPOSE IS ACCOMPLISHED.
- PROVIDE REGULAR INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES TO INSURE THAT SEDIMENT CONTROL EFFICIENCY IS OBTAINED UNTIL FINAL STABILIZATION OF SITE HAS TAKEN PLACE.
- INSTALL SEDIMENT CONTROL MEASURES AT THE ONSET OF GRADING OPERATIONS SO THAT EFFECTIVE SEDIMENT CONTROL CAN BE ACHIEVED DURING THE ENTIRE CONSTRUCTION PERIOD.
- STABILIZE ALL POINTS OF INGRESS AND EGRESS WITH TRACKING PAD DURING CONSTRUCTION TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.
- FOR TEMPORARY STOCKPILES APPLY SEED, HYDROMULCH AND TACKIFIER IMMEDIATELY AFTER THEY ARE CONSTRUCTED FOR STABILIZATION. IF EROSION OCCURS AFTER APPLICATION OF THE TACKIFIER, USE EXCELSIOR C2 EROSION CONTROL FABRIC. INSTALL SILT FENCE BELOW STOCKPILES TO CAPTURE SEDIMENT.
- THE TERM "REVEGETATION" ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF FERTILIZER IN ACCORDANCE WITH APPLICABLE "STANDARDS AND SPECIFICATIONS". REFER TO LANDSCAPE PLANS FOR SEED MIX, FERTILIZER TYPE, MULCH, TACKIFIER AND APPLICATION RATES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE APPROPRIATE MEASURES TO INSURE THAT NO SEDIMENT LADEN WATER IS DISCHARGED FROM THE SITE.
- APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES BEFORE REMOVAL OF SEDIMENT CONTROLS.
- CONTRACTOR SHALL OBTAIN AND CONFORM TO STORMWATER DISCHARGE PERMIT AND ALL ENVIRONMENTAL PERMITS AND KEEP STREETS CLEAN AND FREE OF SEDIMENT.
- REMOVAL AND CLEANUP OF ANY SEDIMENT THAT LEAVES THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR

FUGITIVE DUST CONTROL

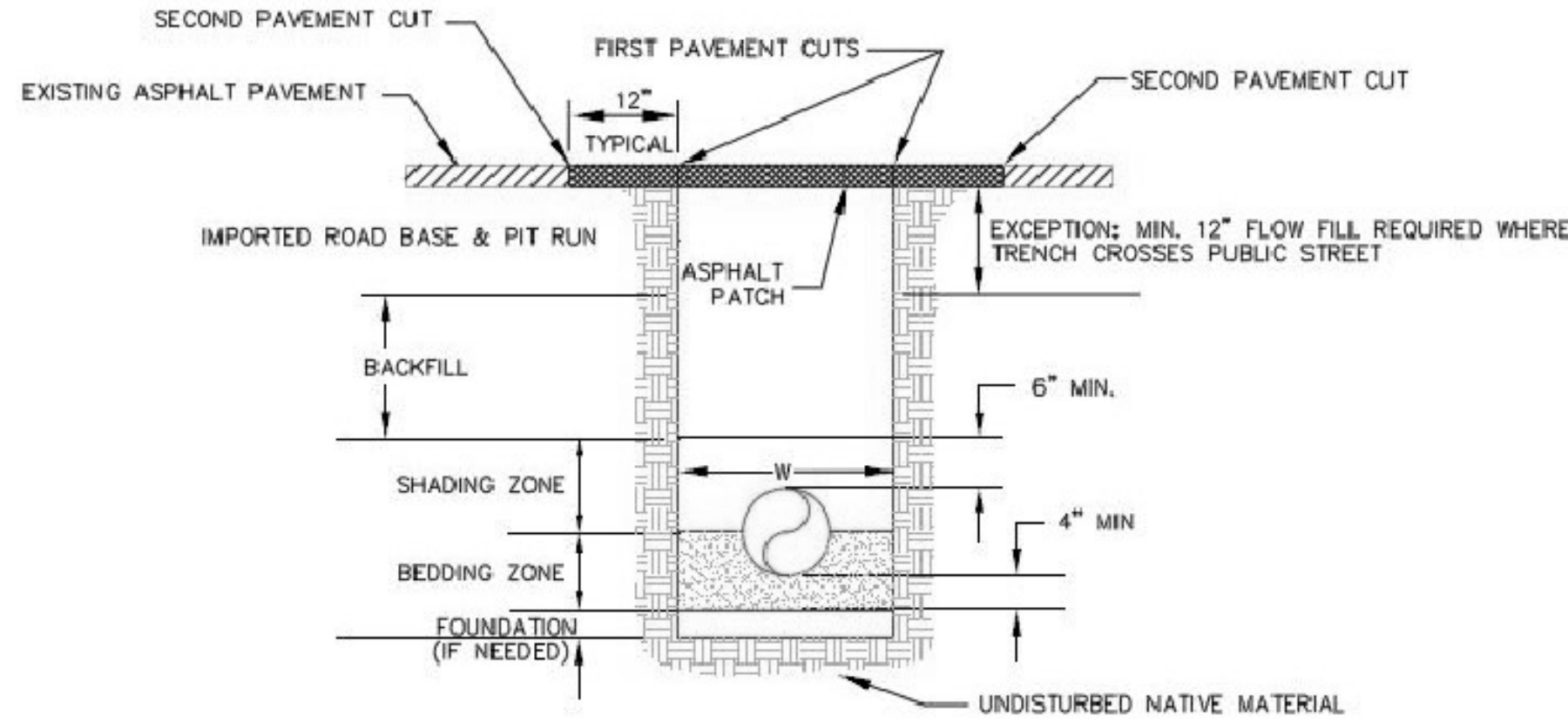
THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST AND TO INCORPORATE THE FOLLOWING:

- ALL UNPAVED ROADS AND OTHER DISTURBED AREAS ON SITE SHALL BE WATERED TO MINIMIZE FUGITIVE DUST.
- HAUL ROADS SHALL BE TREATED WITH MAGNESIUM CHLORIDE IF WATER IS NOT CONTROLLING THE DUST.
- ALL DISTURBED SURFACE AREAS SHALL BE REVEGETATED OR SURFACED PER THE LANDSCAPE PLAN AS SOON AS POSSIBLE.
- MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE PREVENTED. ANY MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE CLEANED UP DAILY.

CONSTRUCTION SEQUENCE OF EROSION/SEDIMENT CONTROL MEASURES

BEFORE COMMENCING GRADING OR CONSTRUCTION

- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT ALL POINTS OF INGRESS AND EGRESS.
- CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ASSURE THAT NO SEDIMENT LEAVES THE SITE.
- CONSTRUCT SILT FENCE AND WATTLES AND ALL SEDIMENT CONTROL DEVICES.
- BEGIN DEMOLITION, EXCAVATION AND CONSTRUCTION.
- INSTALL EROSION CONTROL MEASURES AFTER DITCHES AND SWALES HAVE BEEN CONSTRUCTED AND TOPSOIL AND SEED HAVE BEEN PLACED. INSTALL INLET PROTECTION IN ALL INLETS AS THEY ARE CONSTRUCTED.
- TOPSOIL AND REVEGETATE ALL DISTURBED AREAS WITH APPROVED SEED MIX PER LANDSCAPE PLAN.
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL FACILITIES AFTER FINAL STABILIZATION.



NOTES:

A GUIDE FOR DESIRABLE TRENCH WIDTH (W) AT THE TOP OF THE PIPE SHALL BE THE NOMINAL DIAMETER OF THE PIPE PLUS 12-INCHES ON EACH SIDE OF THE PIPE.

A SECOND PAVEMENT CUT SHALL BE REQUIRED PRIOR TO PLACING THE ASPHALT PATCH. REMOVE ALL IRREGULAR ASPHALT EDGES A MINIMUM OF 12-INCHES BEYOND ANY DAMAGED SURFACE TO A CLEAN VERTICAL EDGE. APPLY A BITUMINOUS TACK COAT PRIOR TO PLACING THE ASPHALT PATCH.

THE ASPHALT PATCH SHALL BE PLACED IN TWO 2-INCH LIFTS AND ROLLER COMPACTED TO MATCH THE ADJACENT ASPHALT EDGES.

SUB-BASE MATERIALS SHALL CONSIST OF 4-INCHES OF ROAD BASE OR 8-INCHES OF PIT-RUN. COMPACTION REQUIREMENTS SHALL EXCEED 95% MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO T-180 TEST PROCEDURES.

TRENCH CROSS SECTION

N.T.S.

CITY OF
Steamboat Springs
Water & Sewer

PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851

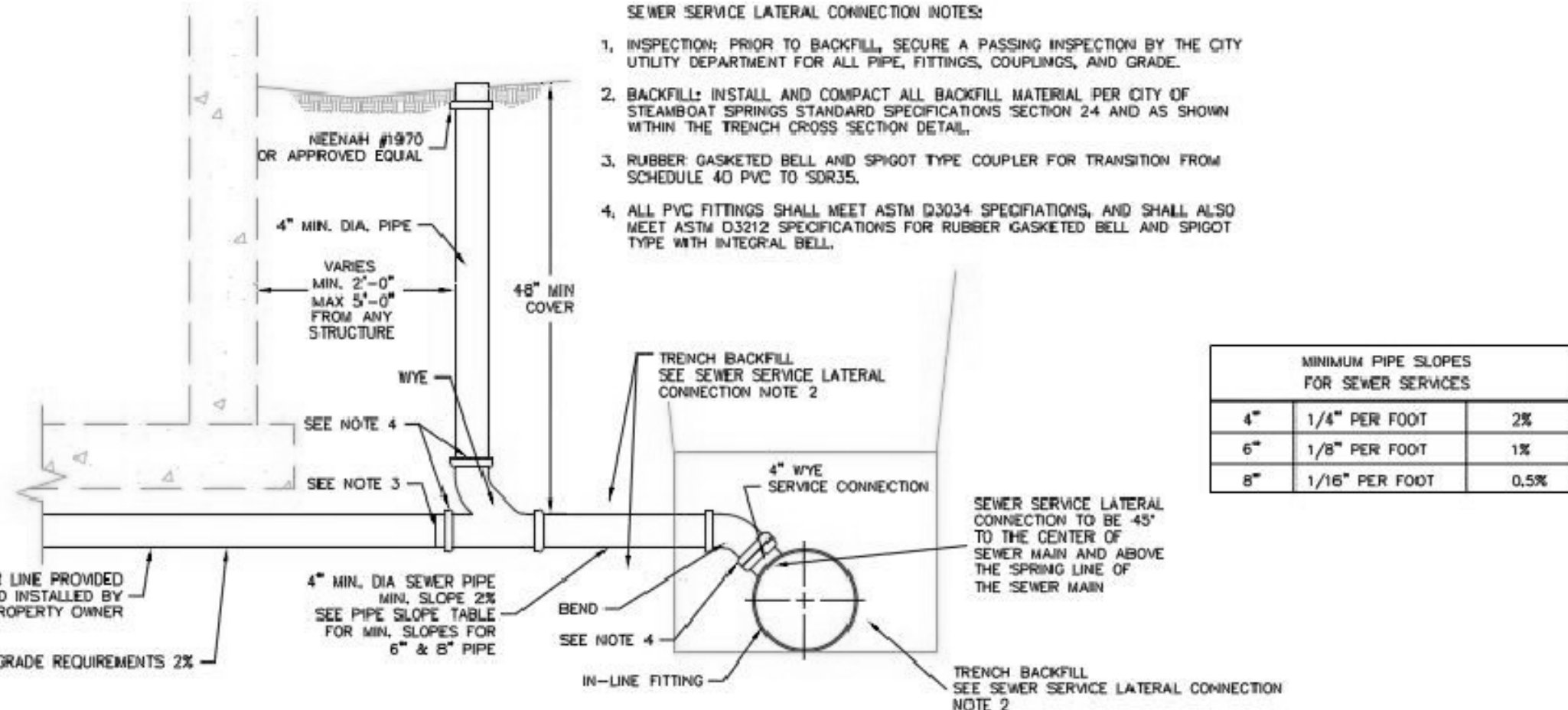
STANDARD DETAILS

Drawn by: JS

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Revision description:

Sheet number 1 of 17



SECTION

SEWER SERVICE LATERAL CONNECTION DETAIL

N.T.S.

CITY OF
Steamboat Springs
Water & Sewer

PO BOX 775088
STEAMBOAT SPRINGS, CO
(970) 879-2060 FAX (970) 879-8851

STANDARD DETAILS

Drawn by: GLB

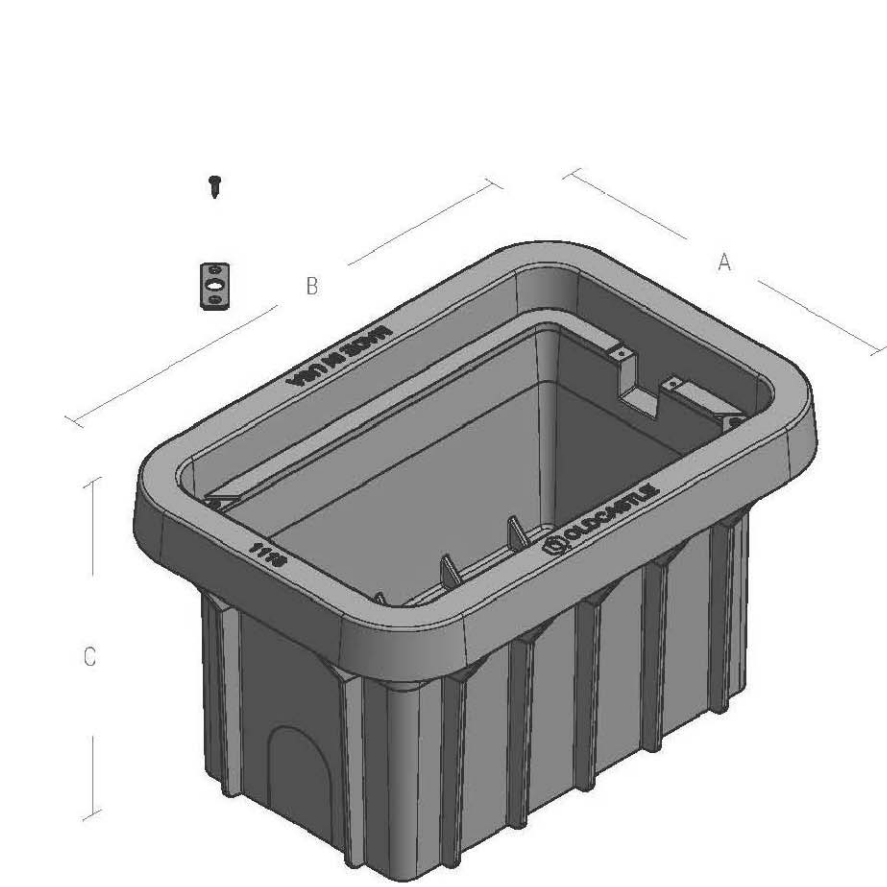
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Revision description:

Sheet number 3 of 17

Oldcastle Infrastructure
A CRH COMPANY

DURALITE™
1118



MATERIAL & STYLE

Polyolefin Blend
Straight Wall

1118-12

ANSI/SCTE-77, Tier 15
12.6 lbs
ANSI/SCTE-77, Tier 22
12.6 lbs

1118-18

ANSI/SCTE-77, Tier 15
16.3 lbs
ANSI/SCTE-77, Tier 22
16.3 lbs

	A	B	C
1118-12	14 1/4	21 1/8	12
1118-18	14 1/4	21 1/8	18

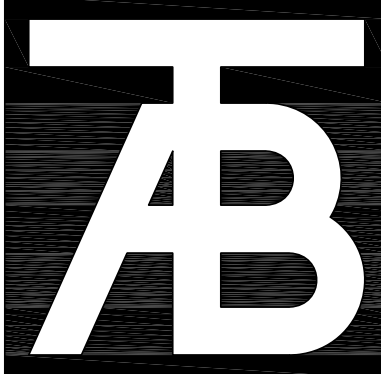
15 MEDIUM DUTY
ANSI/SCTE TIER 15

22 HEAVY DUTY
ANSI/SCTE TIER 22

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location.
*Based upon 1st test body combination, this unit can be Tier 15 or Tier 22, T22 rating when paved with T22 polymer concrete lid.
Revision 10/30/19

oldcastleinfrastructure.com
(888) 966-3227

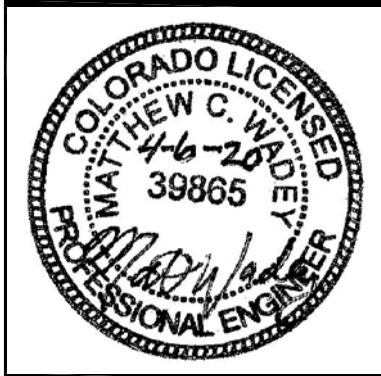
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Sheet Title:
**Utility
Details**

ALPINE
ENGINEERING INC.
1000 E. 10TH AVE. SUITE 200
EDWARDS CO 81632 (970) 926-3373
WWW.ALPIENGINEER.COM

Project No:
1935.03

Sheet No:
C4.1

LEGEND

TREE PROTECTION FENCING

TREES TO BE REMOVED

LIMITS OF REMOVALS

LIMITS OF CONSTRUCTION

1 TREE PROTECTION FENCING

SCALE: NTS

1 L1.0 EXISTING CONDITIONS AND DEMOLITION PLANS
1" = 40'-0"

DHM DESIGN
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www.dhmdesign.com

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03/30/20 - CD
04/06/20 - CD

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EXISTING CONDITIONS AND DEMOLITION PLANS

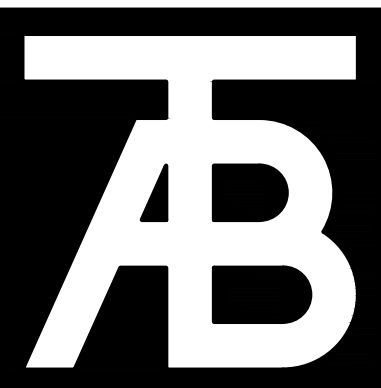
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Sheet No:
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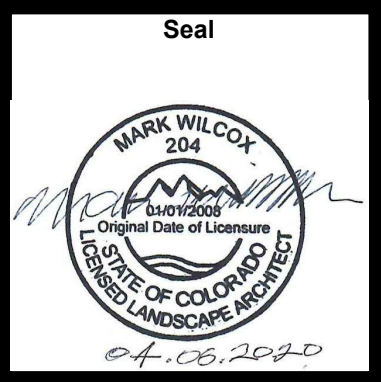
LEGEND

SYNTHETIC TURF

LIMITS OF CONSTRUCTION



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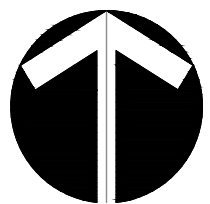
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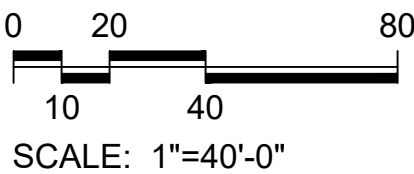
Sheet Title:
LAYOUT PLAN

Project No:
1935.01

Sheet No:
L2.0



LAYOUT PLAN
1 L2.0 1" = 40' - 0"



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LEGEND

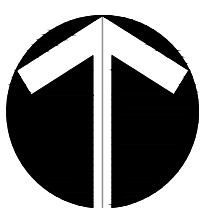
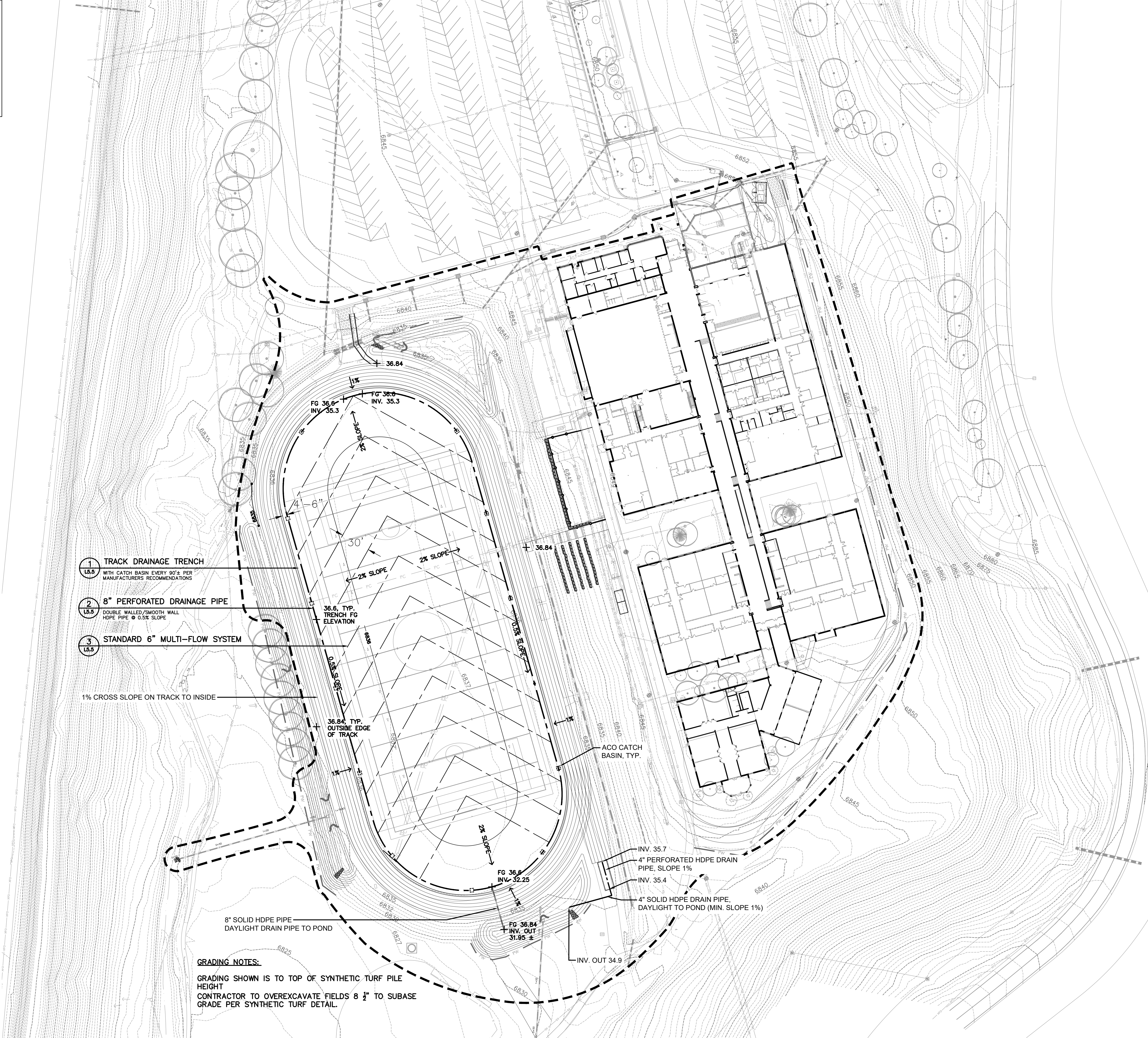
EXISTING CONTOUR

ACO CATCH BASIN

TRENCH DRAIN PIPE

PROPOSED CONTOUR - MAJOR

PROPOSED CONTOUR - MINOR

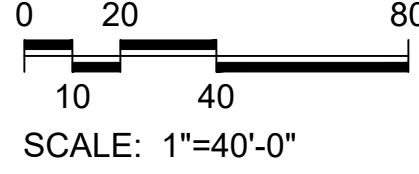


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L3.0

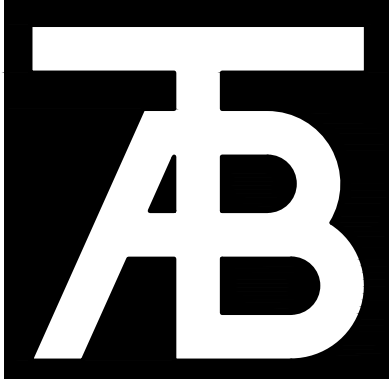
GRADING AND DRAINAGE PLAN

1" = 40' - 0"



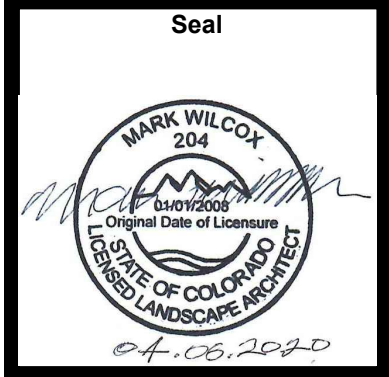
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Steamboat Springs, CO

Revisions:

No	Description	Date

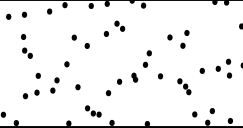
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03/30/20 - CD
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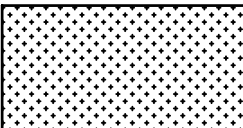
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**GRADING
AND
DRAINAGE
PLAN**

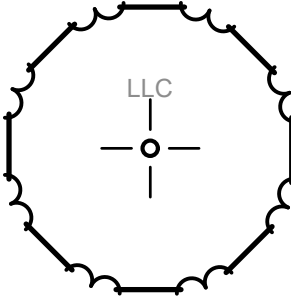
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1935.01


Sheet No:
L3.0


LEGEND

 NATIVE SEED


 ROCK MULCH


 DECIDUOUS TREE

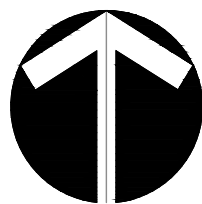
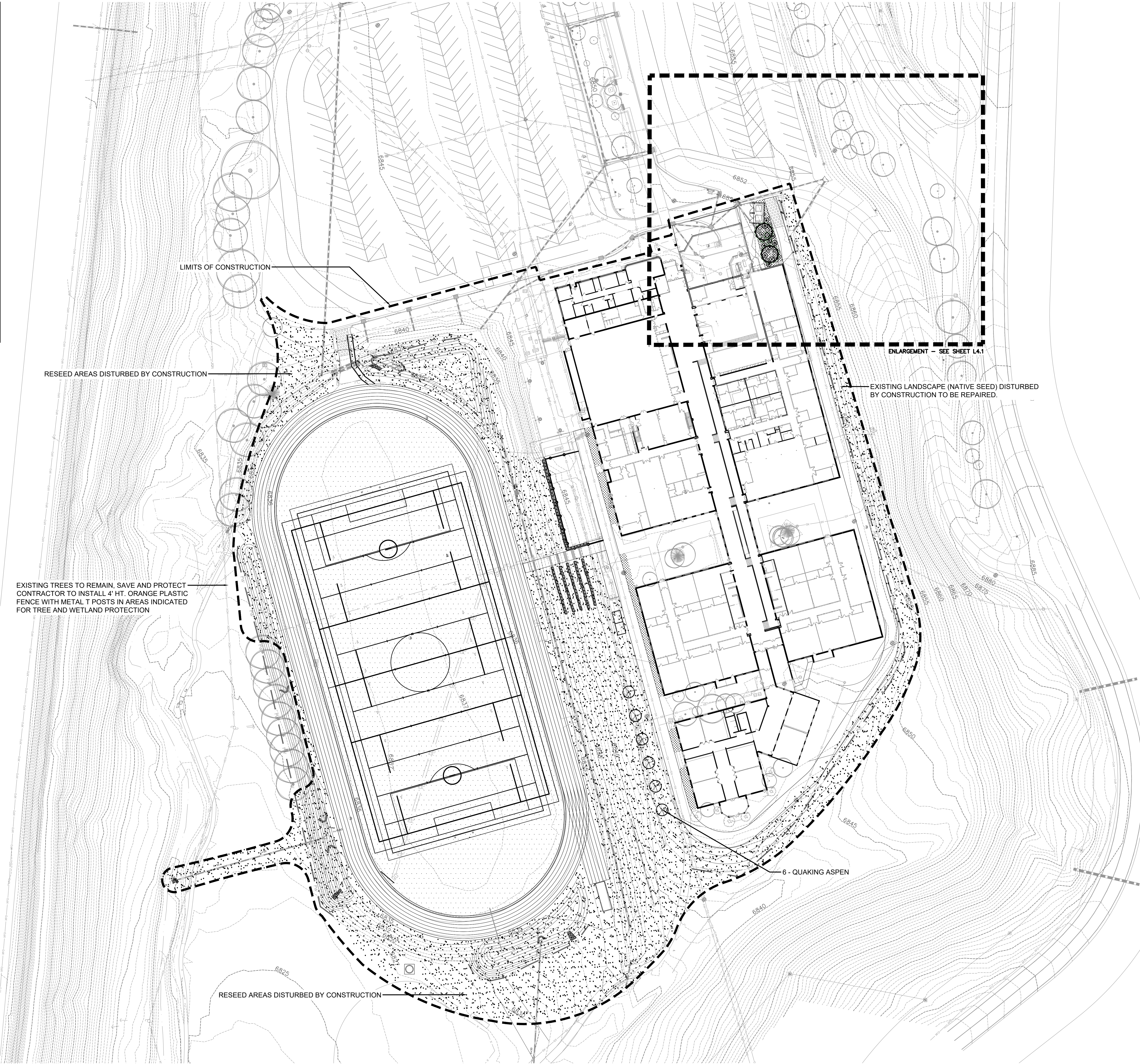
 DECIDUOUS SHRUBS

 EVERGREEN SHRUBS

 ORNAMENTAL GRASSES

 LIMITS OF CONSTRUCTION

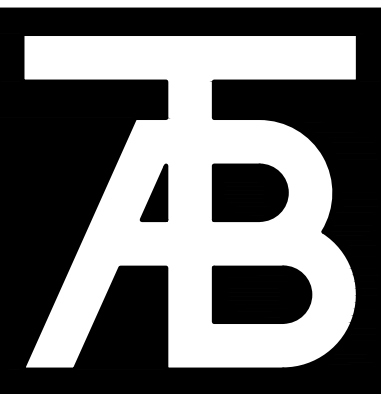
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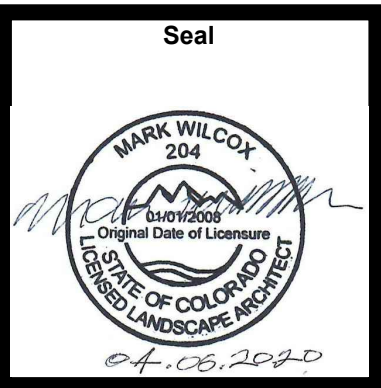
LANDSCAPE PLAN
1" = 40' - 0"

0 20 40 80
10
SCALE: 1"=40'-0"

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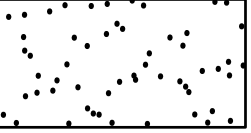
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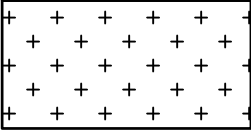
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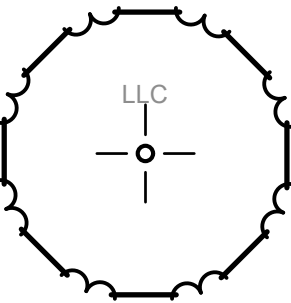
Project No:
1935.01


Sheet No:
L4.0

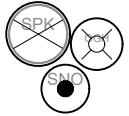
LEGEND

 NATIVE SEED


 ROCK MULCH

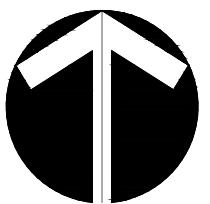
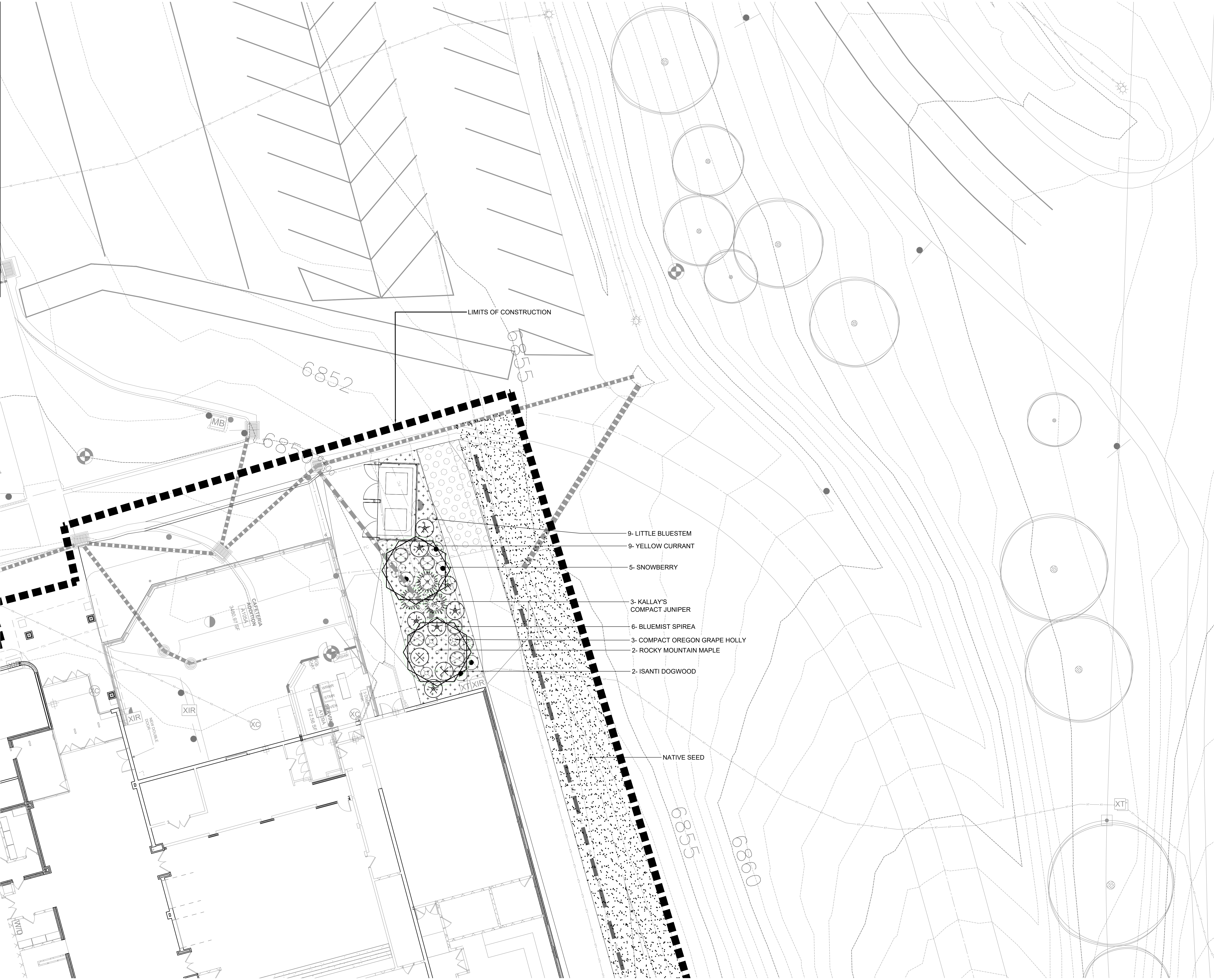
 DECIDUOUS TREE

 DECIDUOUS SHRUBS

 EVERGREEN SHRUBS

 ORNAMENTAL GRASSES

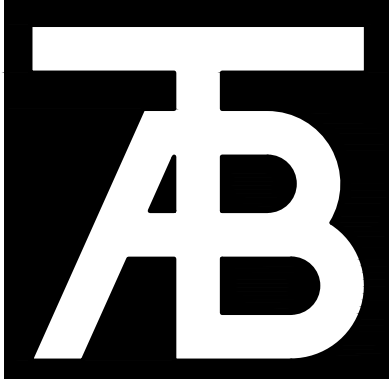
 LIMITS OF CONSTRUCTION



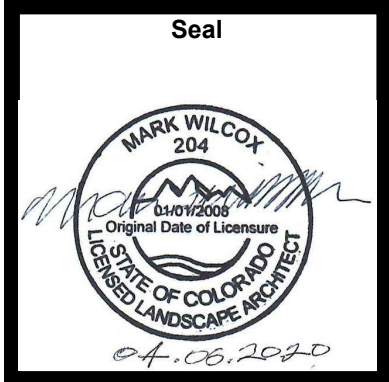
LANDSCAPE ENLARGEMENT PLAN
1" = 10' - 0"

0 5 20
1 10
SCALE: 1"=10'-0"

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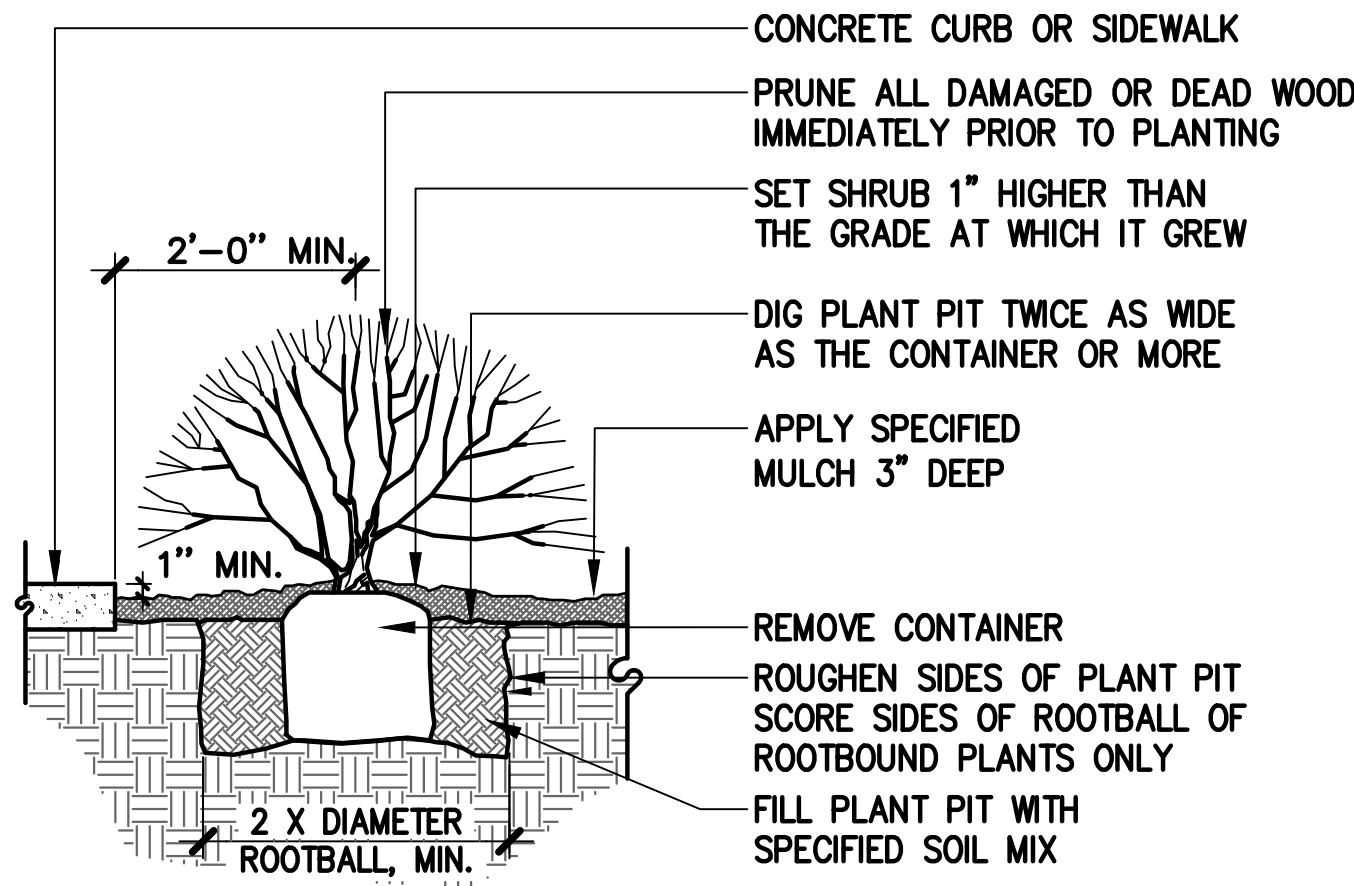
Sheet Title:
LANDSCAPE ENLARGEMENT PLAN

Project No:
1935.01

Sheet No:
L4.1

LANDSCAPE NOTES:

- ALL PLANT MATERIALS SHALL MEET OR EXCEED CURRENT AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 AND THE COLORADO NURSERY ACT AND ACCOMPANYING RULES AND REGULATIONS.
- ALL APPROVED WORK WITHIN TREE PROTECTION ZONE/CRITICAL ROOT ZONE MUST BE ACCOMPLISHED WITH HAND TOOLS ONLY.
- ALL PLANT MATERIAL ARE TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- NO SUBSTANTIAL CHANGE FROM THE APPROVED LANDSCAPE PLAN MAY OCCUR WITHOUT PRIOR REVIEW & APPROVAL BY THE OWNER'S REPRESENTATIVE WHICH MAY REQUIRE ADDITIONAL IRRIGATION TAPS FOR CHANGES DUE TO MORE WATER INTENSIVE LANDSCAPING.
- ALL TREES IN SEEDING AREAS WILL HAVE A MULCH RING WITH NATURAL CEDAR FIBER MULCH AT A 3"-4" DEPTH AND AT LEAST 3'-4' DIAMETER. NO MULCH WILL BE PLACED AGAINST THE TRUNK OF THE TREE.
- ANY TREE SUBSTITUTIONS MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO DELIVERY AND INSTALLATION.
- ALL UTILITY EASEMENT SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT ENTRY.
- THE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED. THE CONTRACTOR SHALL REMOVE REQUIRED DEPTH OF SOIL ALONG WALKWAYS TO ACCOMMODATE SOD OR MULCH DEPTH.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND WALKWAYS. HAVE ALL FINE GRADING APPROVED PRIOR TO SEEDING.
- ALL SHRUB BEDS TO BE MULCHED WITH 1 3/4" WASHED RIVER ROCK, 3" DEPTH, OVER FILTER FABRIC UNLESS OTHERWISE NOTED. SUBMIT SAMPLE FOR APPROVAL.
- PRIOR TO SEEDING OR PLANTING, CONTRACTOR TO APPLY HERBICIDE TO ELIMINATE ALL WEED GROWTH WITHIN LANDSCAPE AREAS, PER SPECIFICATION.

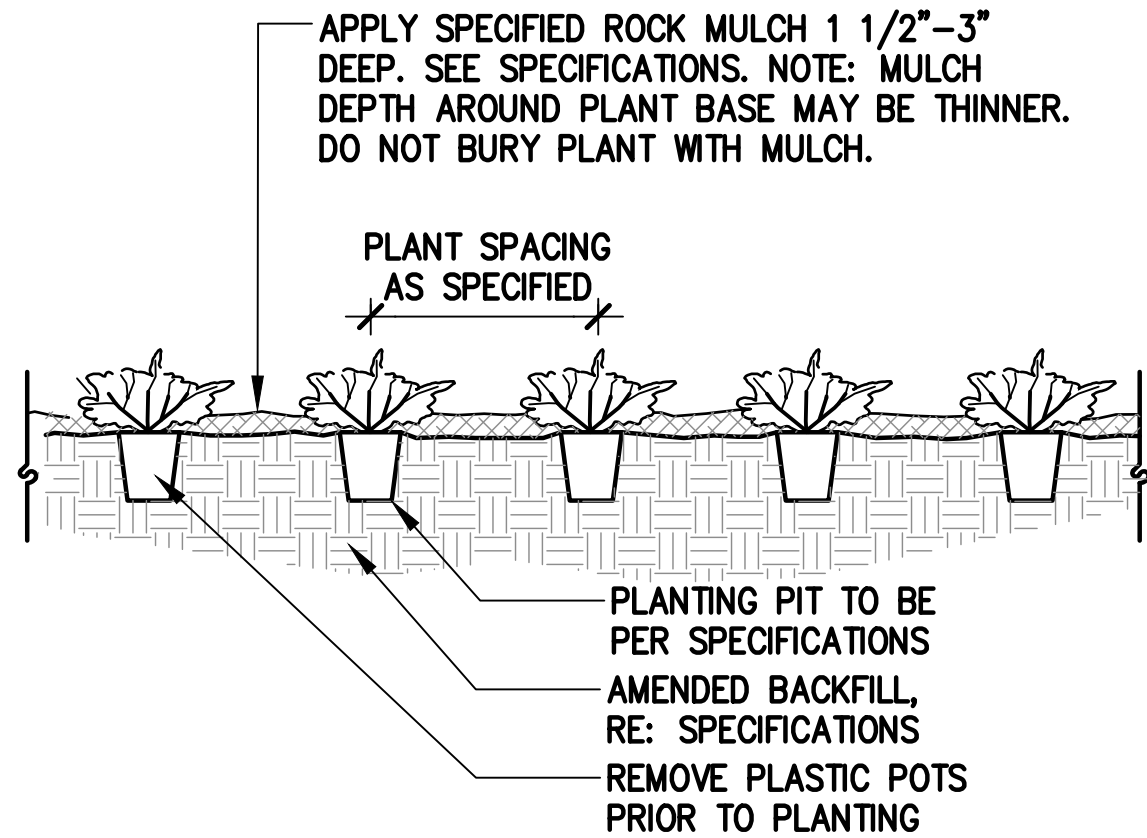


GENERAL NOTES

- HOLD GRADE 1" BELOW EDGE OF WALK OR CURB
- SHRUB PLANTING - REFER TO SHRUB BED LAYOUT FOR PLACEMENT OF SHRUBS.
- FOR GROUPINGS OF SHRUBS, MULCH ENTIRE PLANTING AREA. FOR INDIVIDUAL SHRUBS, MULCH PLANTING PIT AREA ONLY.
- GRADE EDGE OF PLANTING AREAS TO RETAIN MULCH.
- ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

1 SHRUB PLANTING

NOT TO SCALE

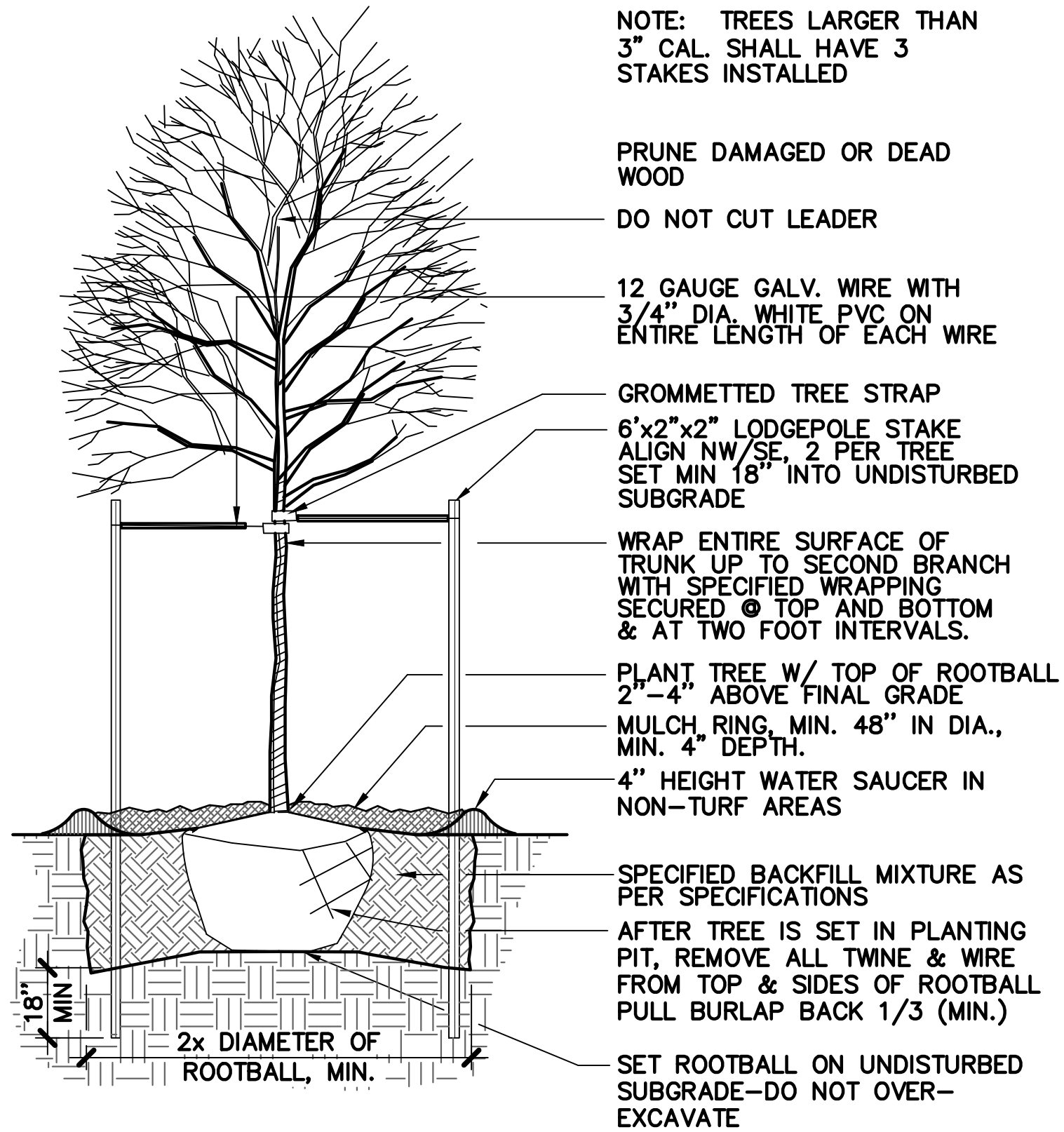


2 ORNAMENTAL GRASSES & PERENNIALS

NOT TO SCALE

PLANT LIST

COMMON NAME	BOTANICAL NAME	SIZE	COMMENTS
DECIDUOUS TREE			
Quaking Aspen	Populus tremuloides	8'-10' HT. Clump Form	B&B, specimen quality
Rocky Mountain Maple	Acer glabrum	2 1/2" cal	B&B, specimen quality
DECIDUOUS SHRUBS			
Bluemist Spirea	Caryopteris x clandonensis 'Dark Knight'	5 gal.	cont., 5 canes min., 12"-18" ht.
Mountain Snowberry	Symphoricarpos oreophilus	5 gal.	cont., 5 canes min., 18"-24" ht.
Yellow Flowering Currant	Ribes aureum	5 gal.	cont., 5 canes min., 18"-24" ht.
Isanti Dogwood	Cornus sericea 'Isanti'	5 gal.	cont., 5 canes min., 18"-24" ht.
CONIFEROUS/EVERGREEN SHRUBS			
Compact Oregon Grape Holly	Mahonia repens 'Compacta'	5 gal.	cont., 5 canes min., 18"-24" ht.
Kalloy's Compact Juniper	Juniperus x pfitzeriana 'Kalloy's Compact'	5 gal.	cont., 5 canes min., 18"-24" ht.
ORNAMENTAL GRASSES			
Little Bluestem	Schizachyrium Scoparium 'Blaze'	1 gal.	Container, Well established



3 DECIDUOUS TREE PLANTING

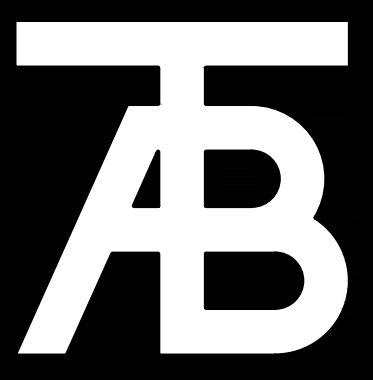
NOT TO SCALE

1 LANDSCAPE NOTES AND DETAILS

L4.2

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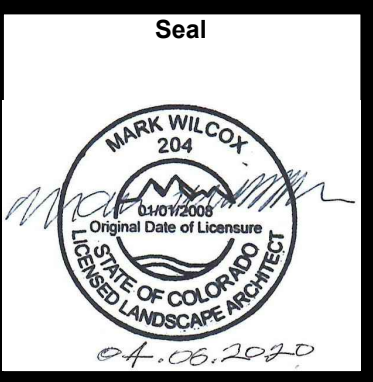
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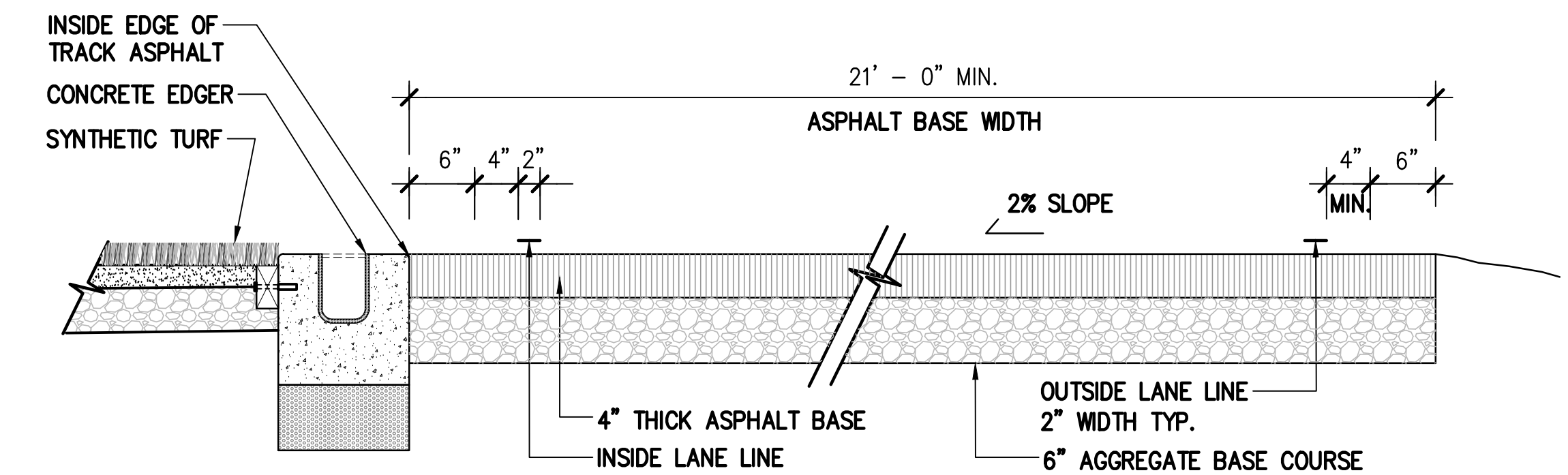
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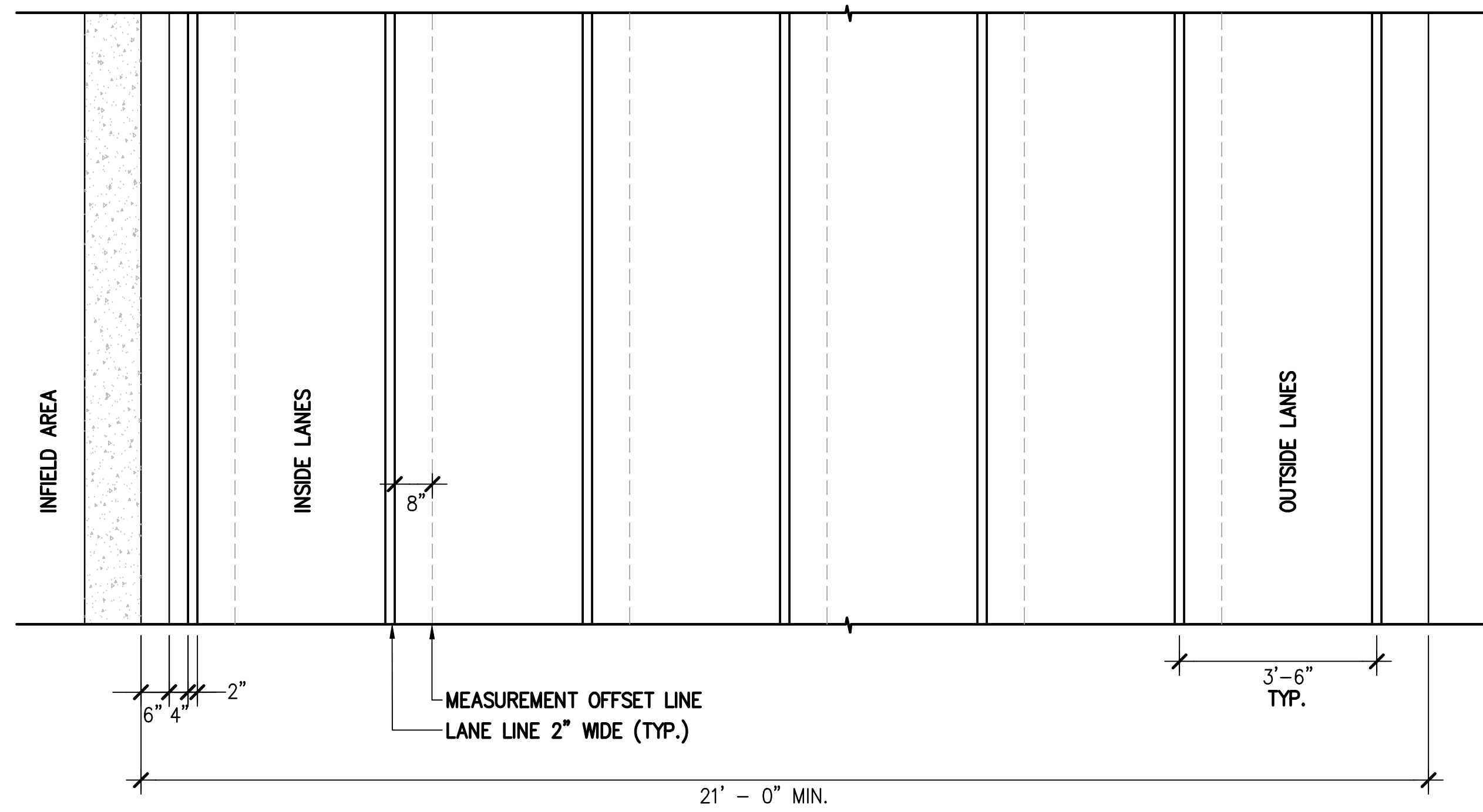
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LANDSCAPE
NOTES AND
DETAILS

Project No:
1935.01

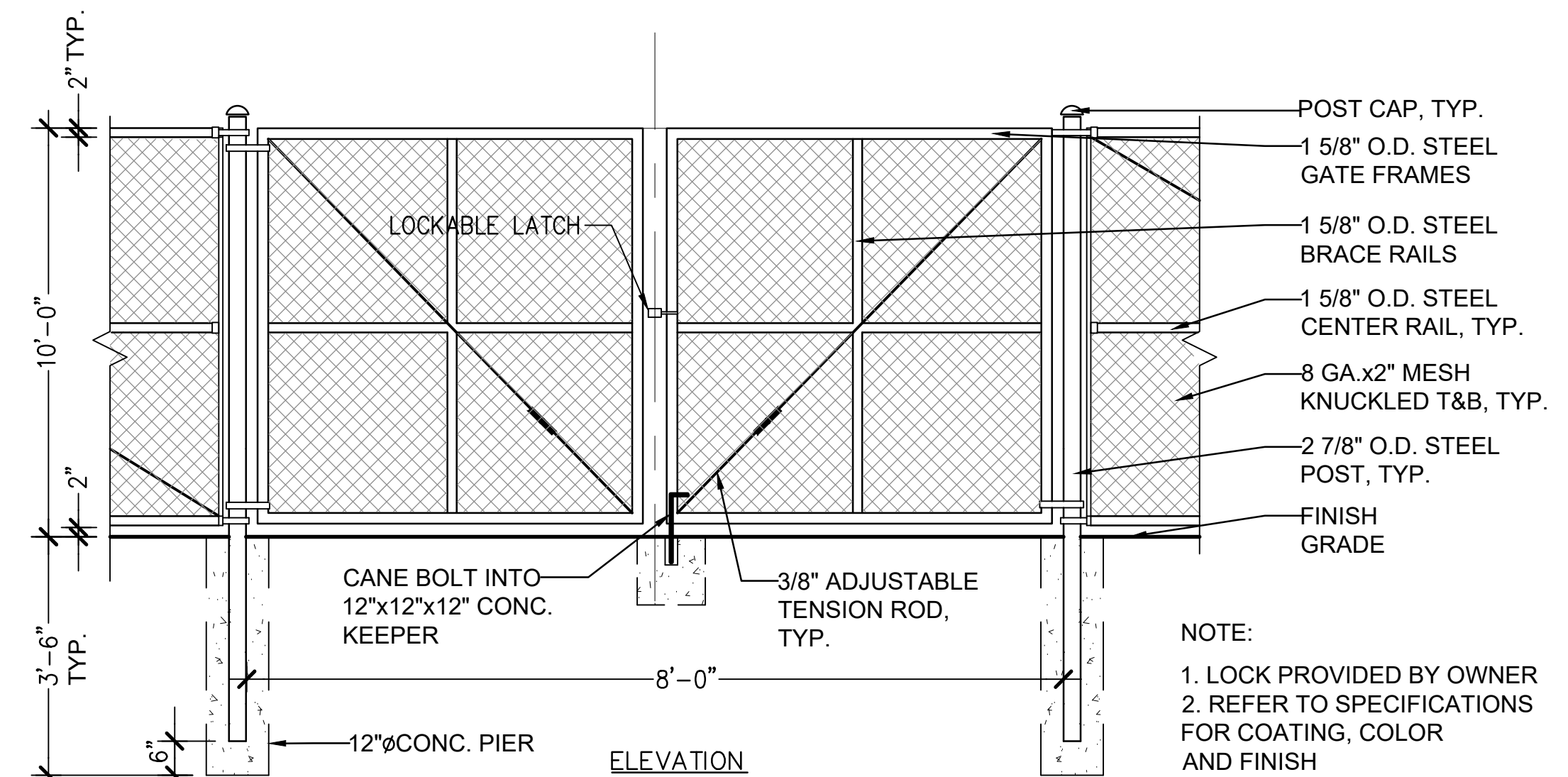
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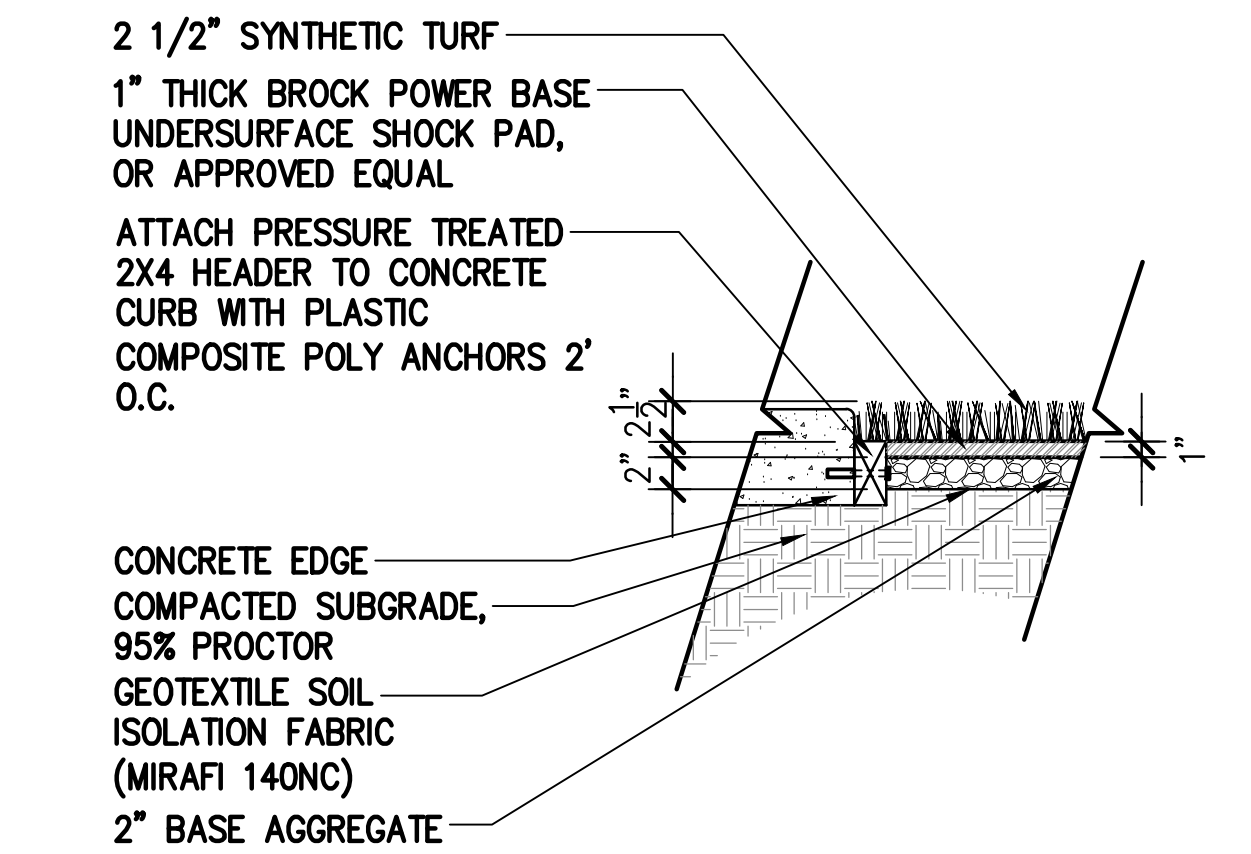
1 TYPICAL TRACK SECTION SCALE: 1" = 1'-0"



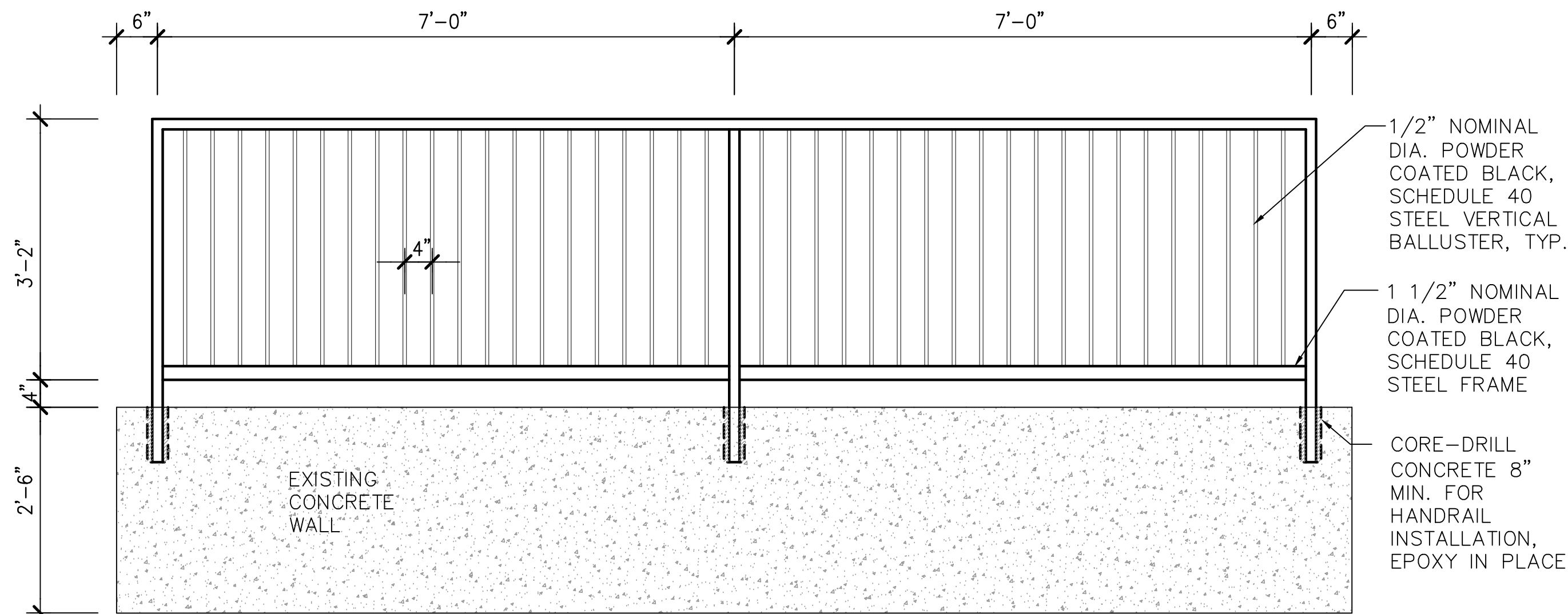
2 TYPICAL TRACK PLAN SCALE: 1/2" = 1'-0"



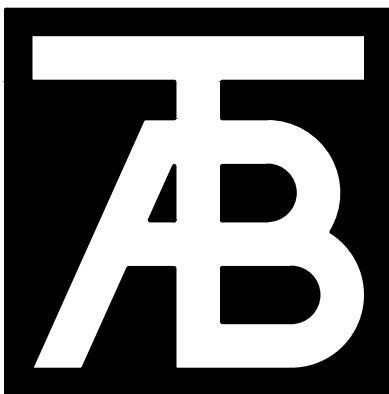
3 CHAIN LINK FENCE - 10' HT. COLOR: GREEN SCALE: 1/2" = 1'-0"



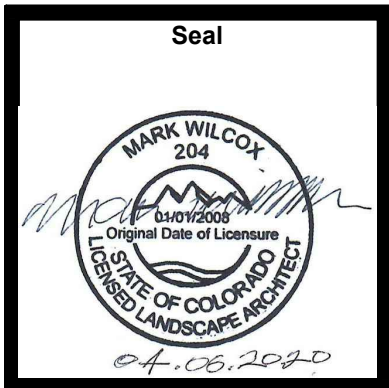
4 SYNTHETIC TURF SCALE: 1" = 1'-0"



5 RAILING SCALE: 3/4" = 1'-0"



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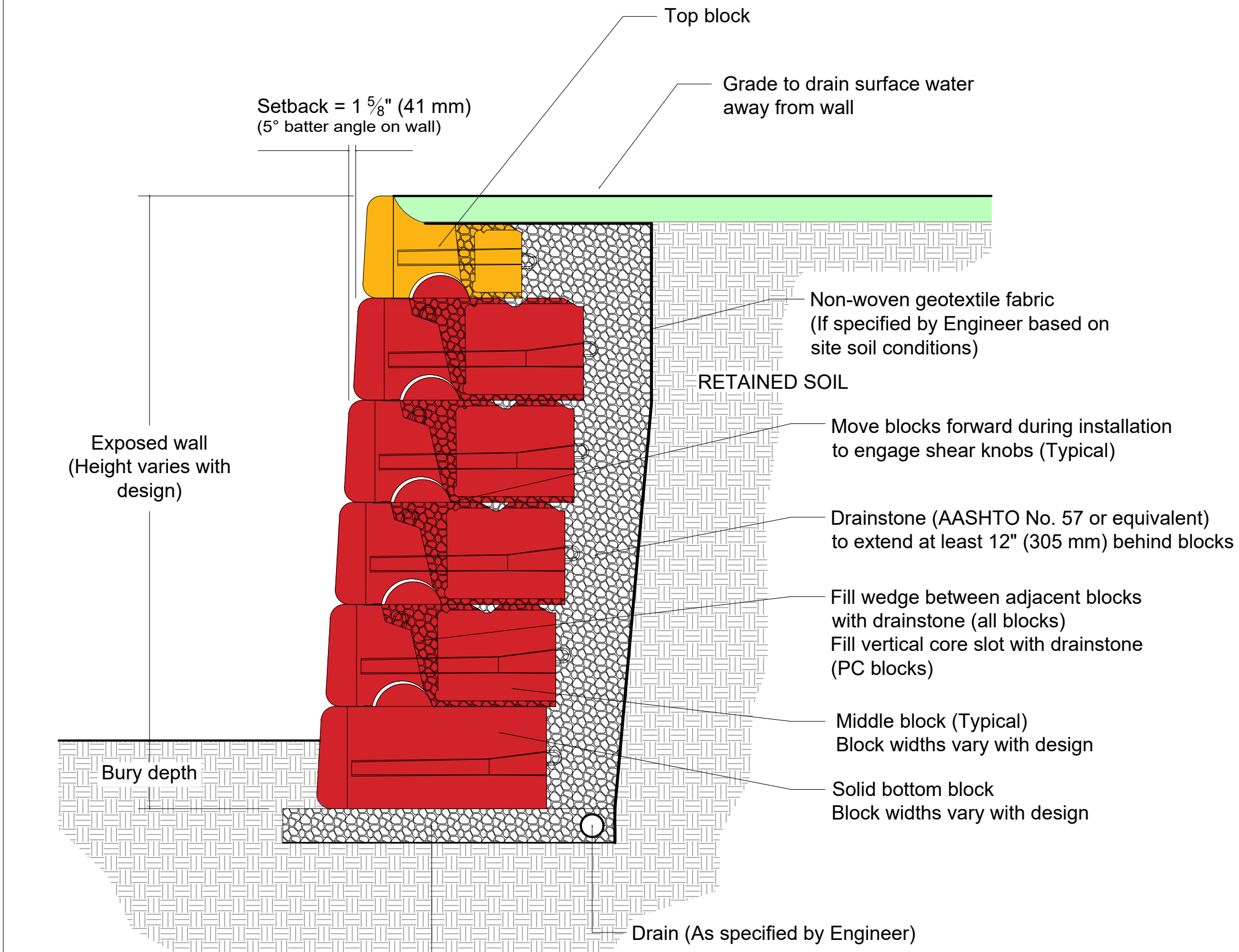
Sheet Title:
SITE DETAILS

Project No:
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Sheet No:
L5.0


1 SITE DETAILS
L5.0

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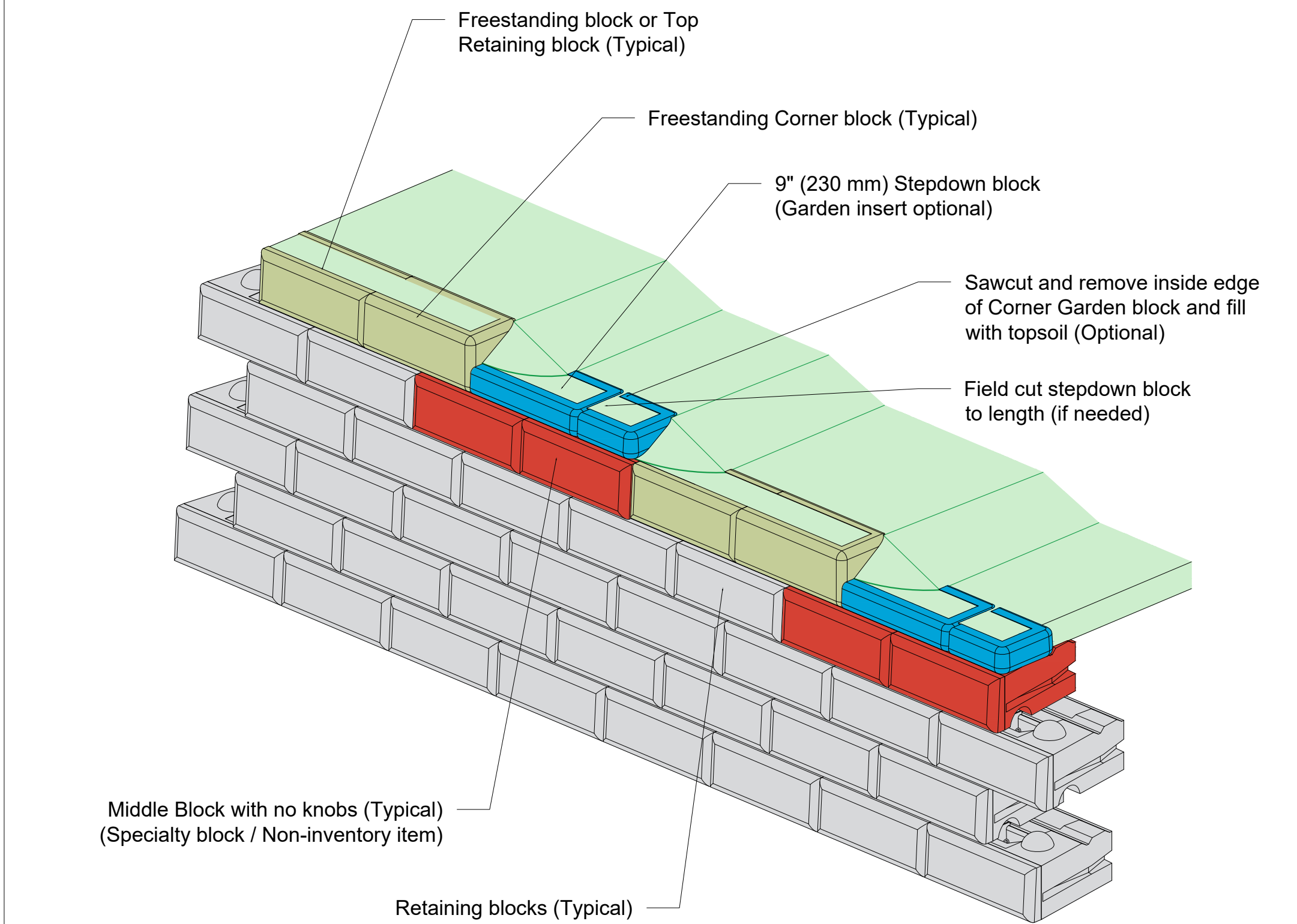
NOTES:
*KINGSTONE TEXTURE
41\"/>

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DRAWN BY:	JRJ	TITLE: Typical Gravity Wall Detail	 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	17MAR2016		
SHEET:	1 of 1		
FILE:	1 Typical Gravity Wall Detail 031716.dwg		

1 REDI-ROCK BOULDER SEATING

TYPICAL GRAVITY WALL DETAIL N.T.S.



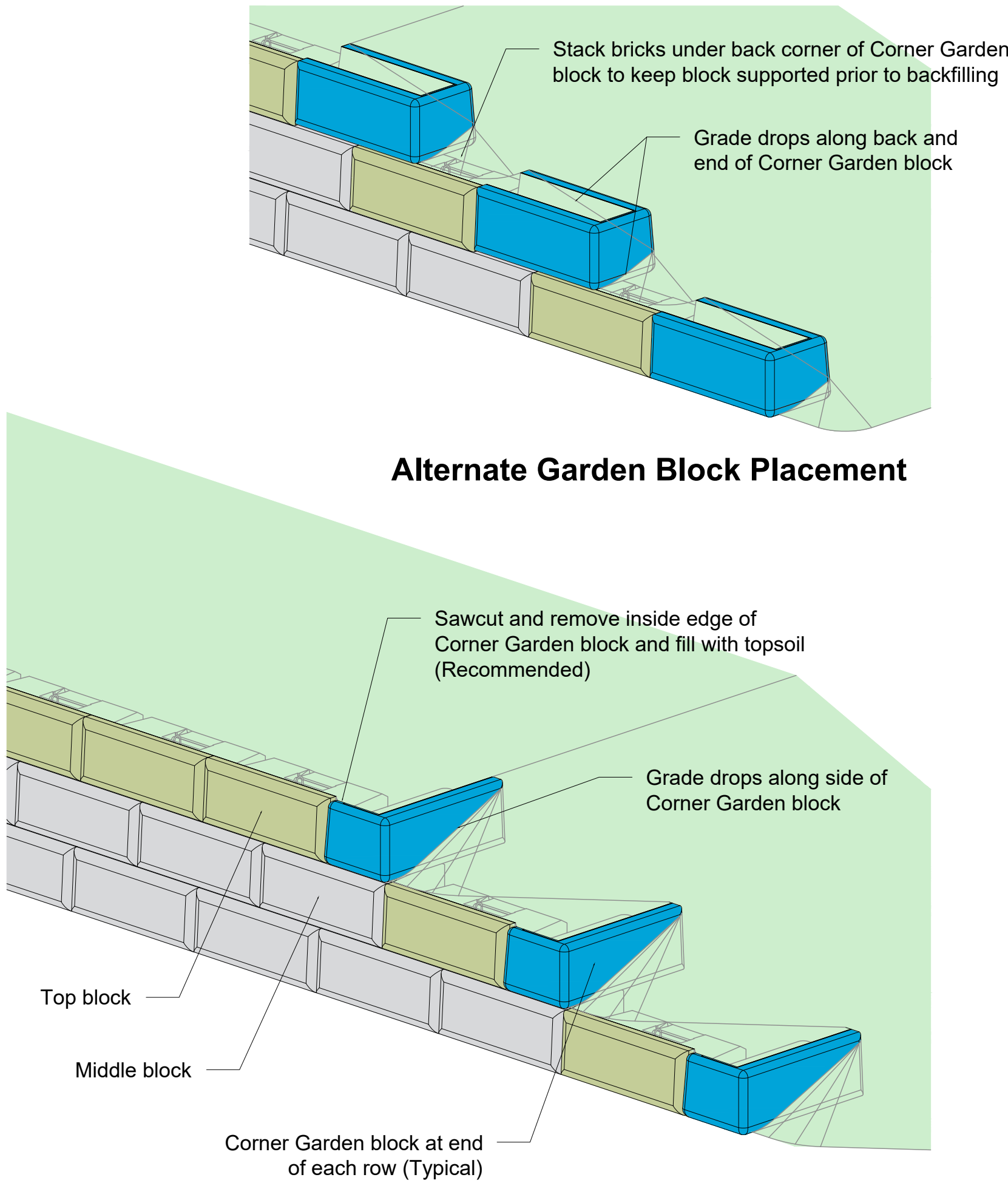
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APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1		
FILE:		2 Top of Wall 9in Stepdown Blocks 062215.dwg	

1 REDI-ROCK BOULDER SEATING

TOP OF WALL, 9" STEPDOWN BLOCKS N.T.S.

Top of Wall Step Options



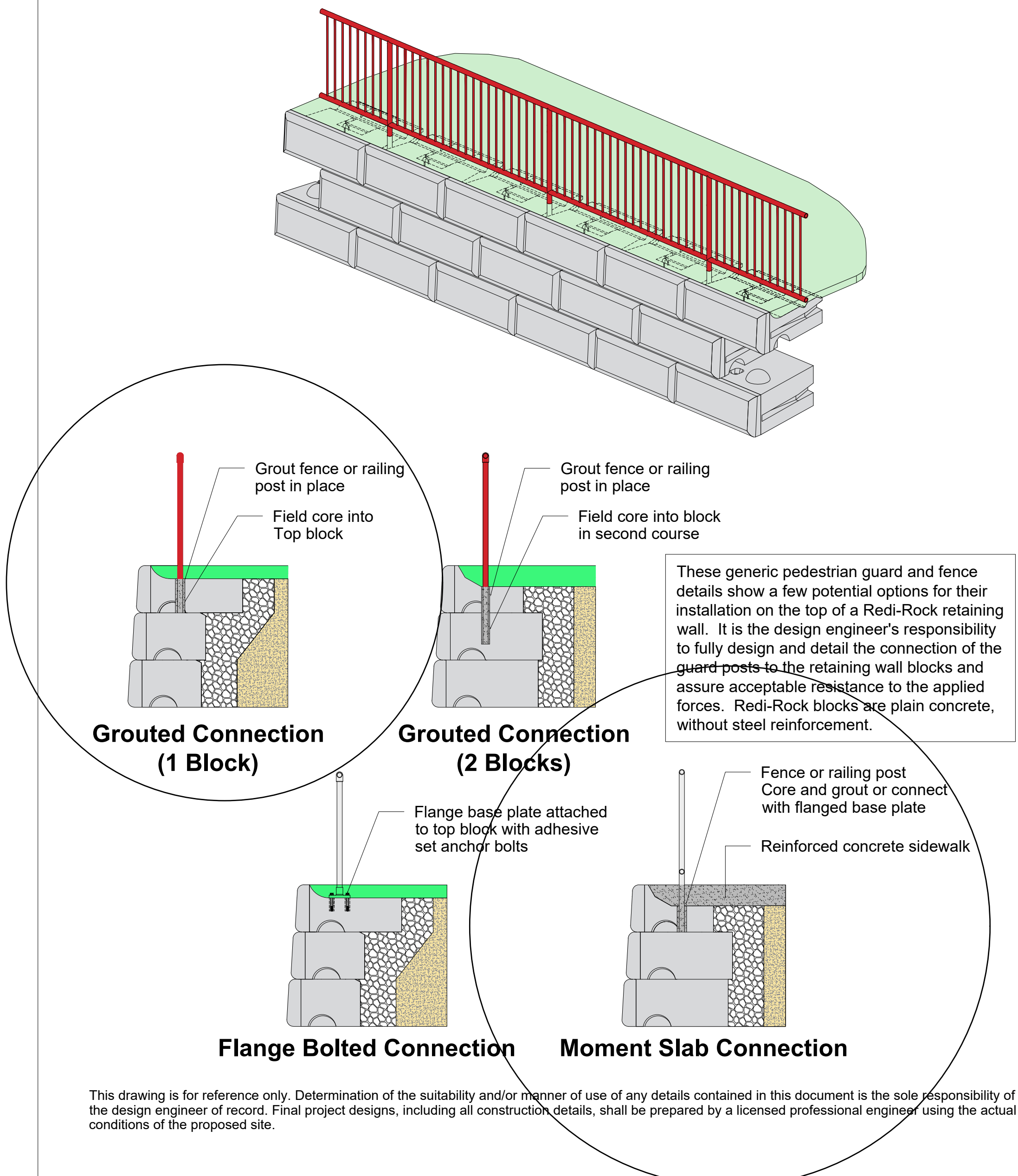
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APPROVED BY:	JRJ			
DATE:	06-22-2015			
SHEET:	1 of 1			
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1 REDI-ROCK BOULDER SEATING

TOP OF WALL STEP OPTIONS N.T.S.

Fence or Pedestrian Guard Connection Options

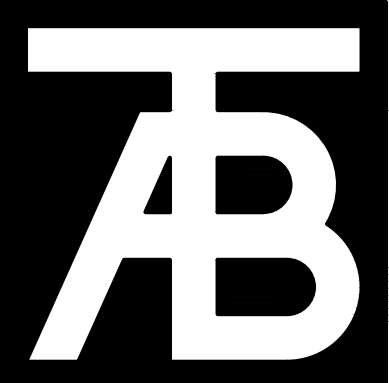


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APPROVED BY:	JRJ		
DATE:	06-22-2015		
SHEET:	1 of 1		
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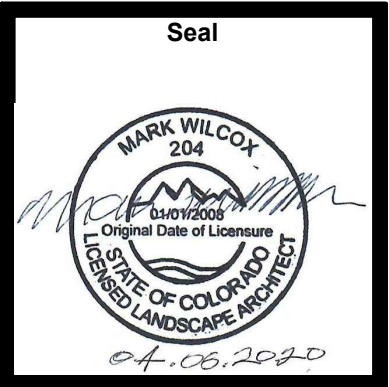
1 REDI-ROCK BOULDER SEATING

FENCE OR PEDESTIRAN GUARD CONNECTION OPTIONS N.T.S.



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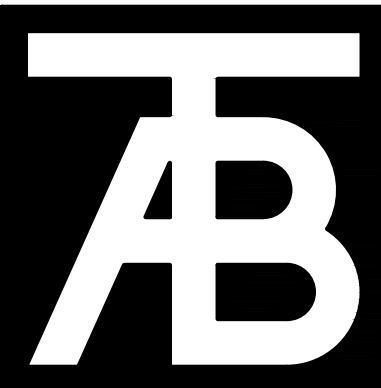
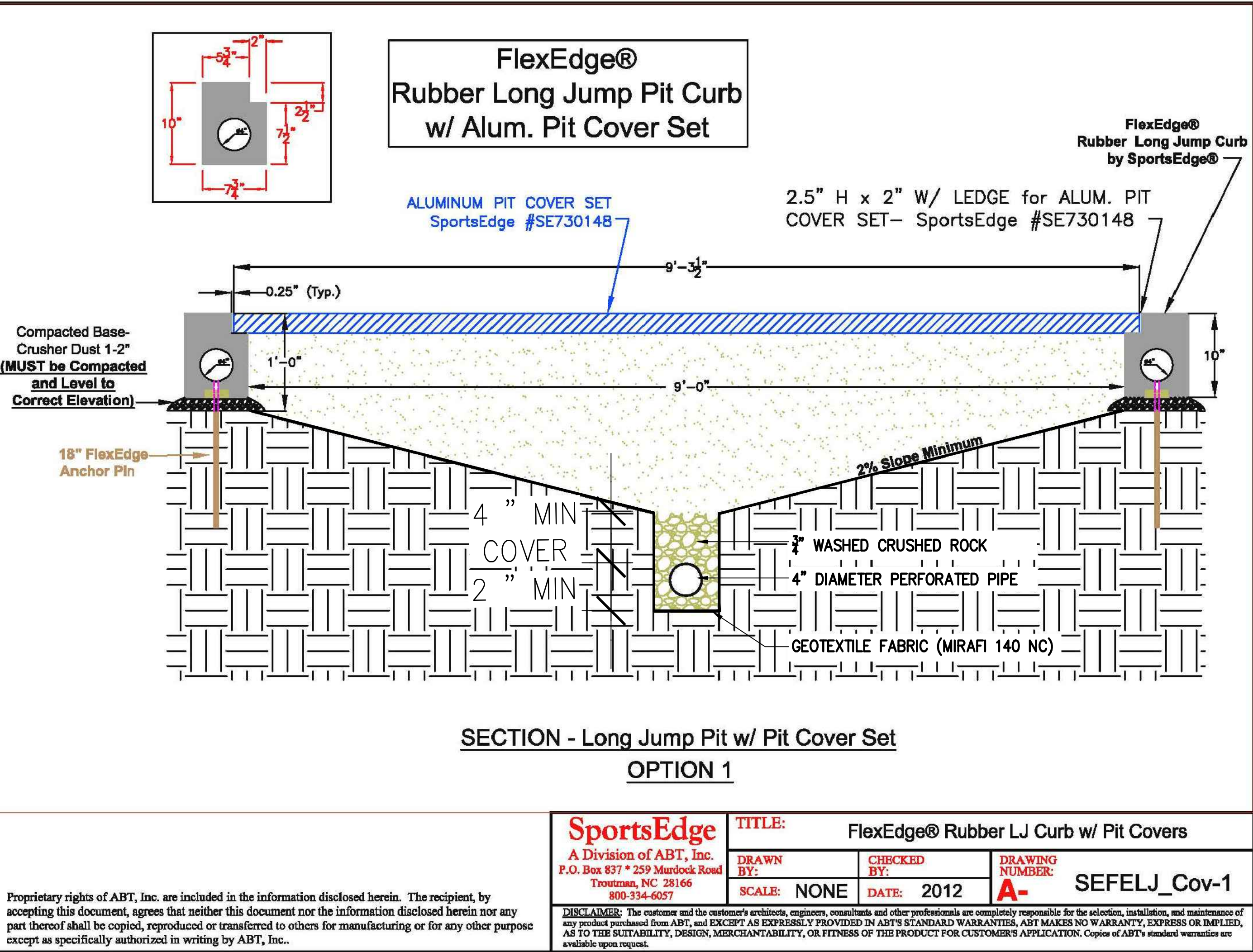
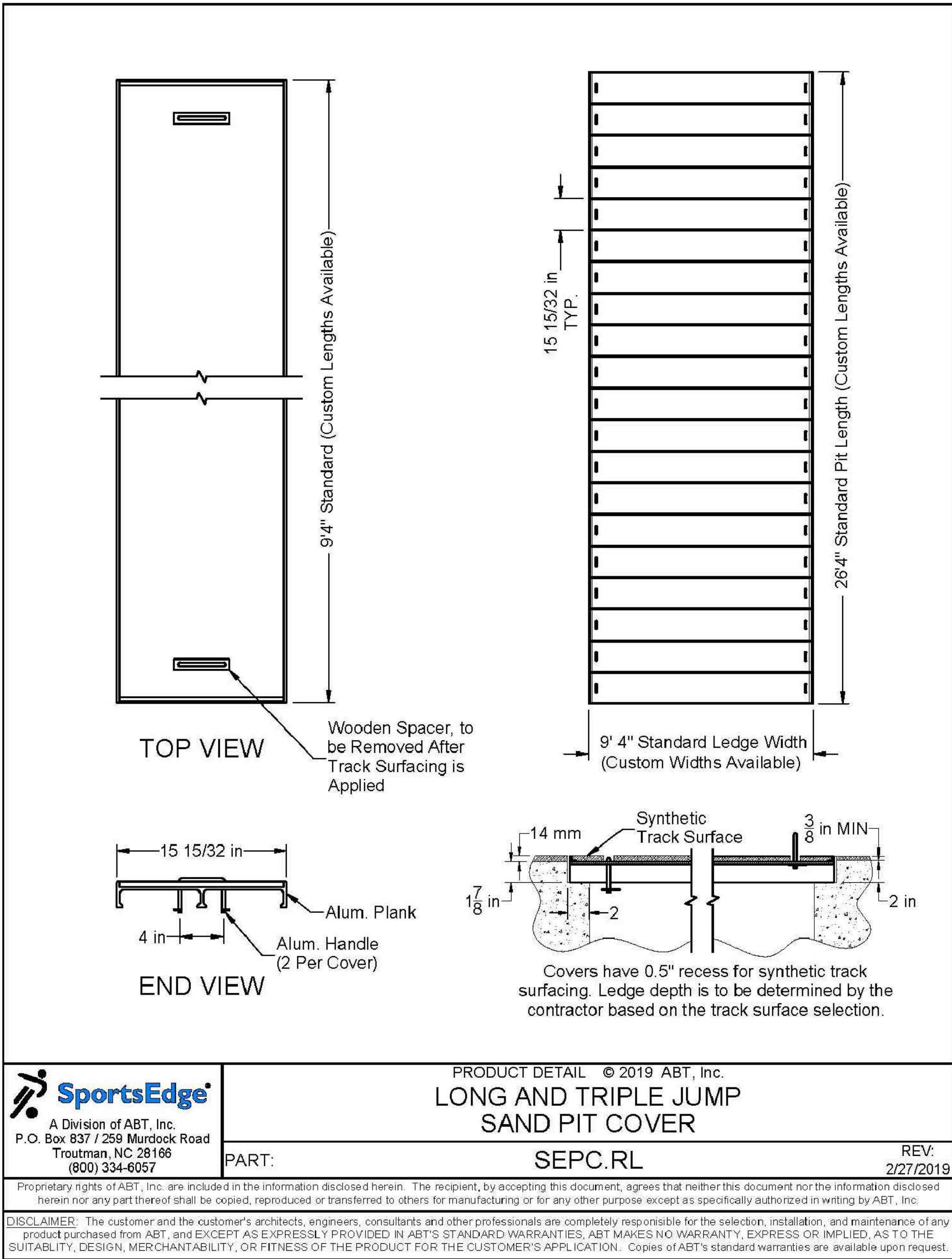
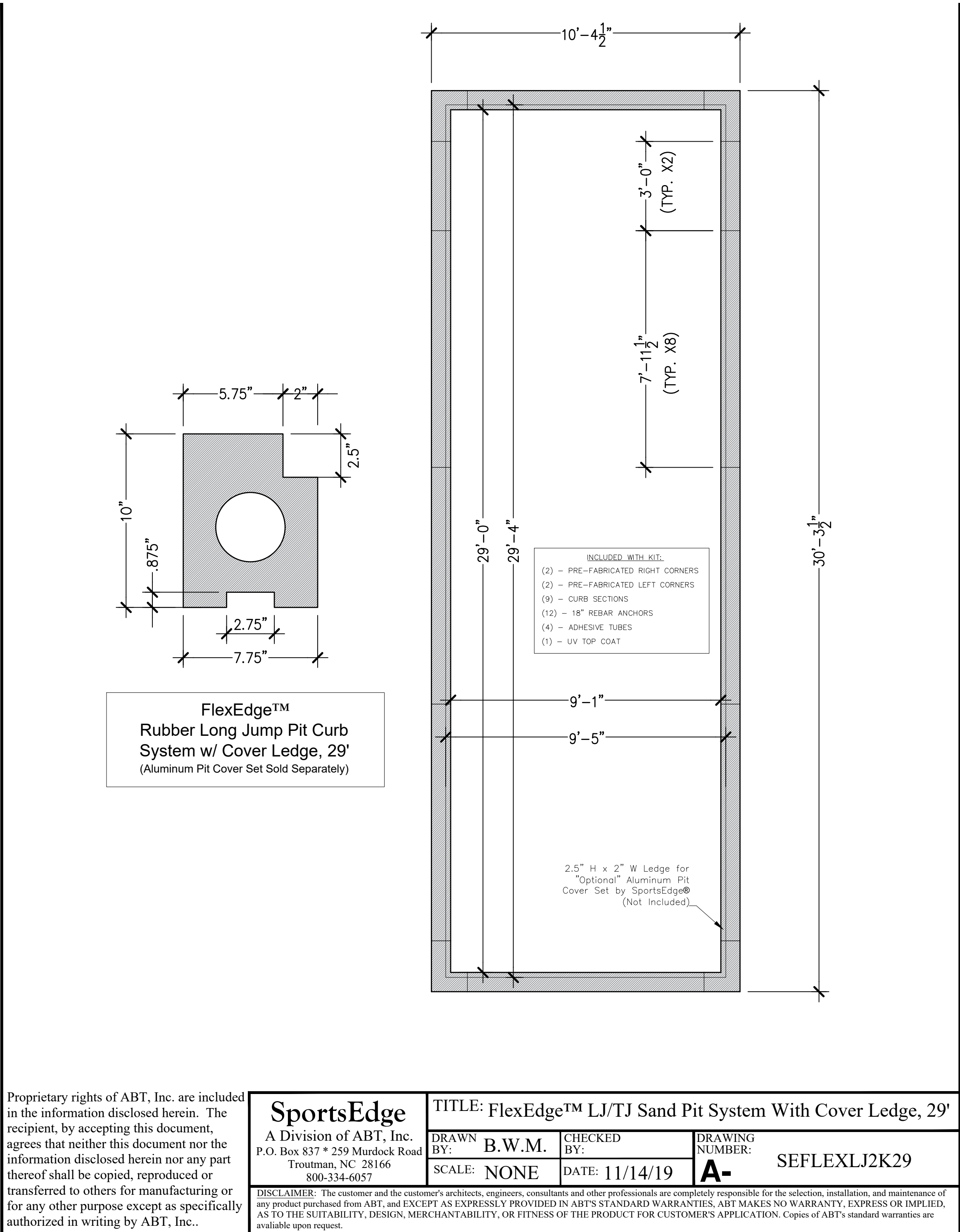
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L5.1

1 SITE DETAILS
L5.1

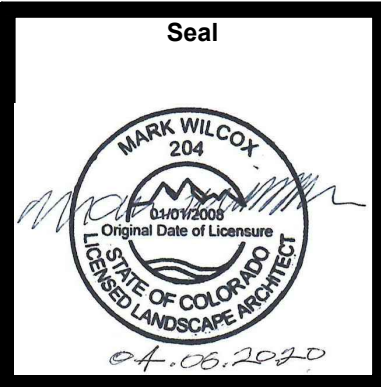
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**SITE
DETAILS**

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Sheet No:
L5.4



FOOTING DIMENSIONS = DIAMETER X DEPTH
* DENOTES BUCKLING BRACE REQUIRED

FOOTING DIMENSIONS = DIAMETER X DEPTH
* DENOTES BUCKLING BRACE REQUIRED

NOTE:
—REFER TO NOTE 7 FOR EXPOSURE CATEGORY DEFINITIONS.

NOTES:

 = LED DRIVER NUMBER &
LED DRIVER CONNECTOR
WIRED TO THAT DIGIT.



24" = DIGIT SIZE

$\langle A | B | C \rangle =$ SEGMENT DESIGNATIONS

 = DRIVER NUMBER

FRONT VIEW
BTM SHOWN WITH 8X32-34mm
ELECTRONIC CAPTIONS AND VINYL TOL

REV 03	DATE: 30 OCT 18	PER CN-67119, UPDATED LOCATION OF DAKTRONICS LOGO	BY: KDM
REV 02	DATE: 20 FEB 15	PER EC-17119, REMOVED DETAIL A AND B ADDED SIGNAL OPTION NOTE CHANGED SLAVE AND MASTER DRIVER NAME	BY: KDB
REV 01	DATE: 23 APR 13	PER EC-9747, UPDATED FB INDICATOR	BY: KDD

	THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)		THIRD ANGLE PROJECTION 
	PROJECT: OUTDOOR LED SCOREBOARDS		
TITLE: COMPONENT LOCATION: FB-2020-R/A			
DATE: 3 FEB 12	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV 03
SCALE: 1=40'	DO NOT SCALE DRAWING		
DESIGN: DOPPELT	ASB DES:		
DRAWN: JVANAAR	P1647,	PUR. OR: A.	1062862

DAKTRONICS FB-2020 FOOTBALL/TRACK SCOREBOARD

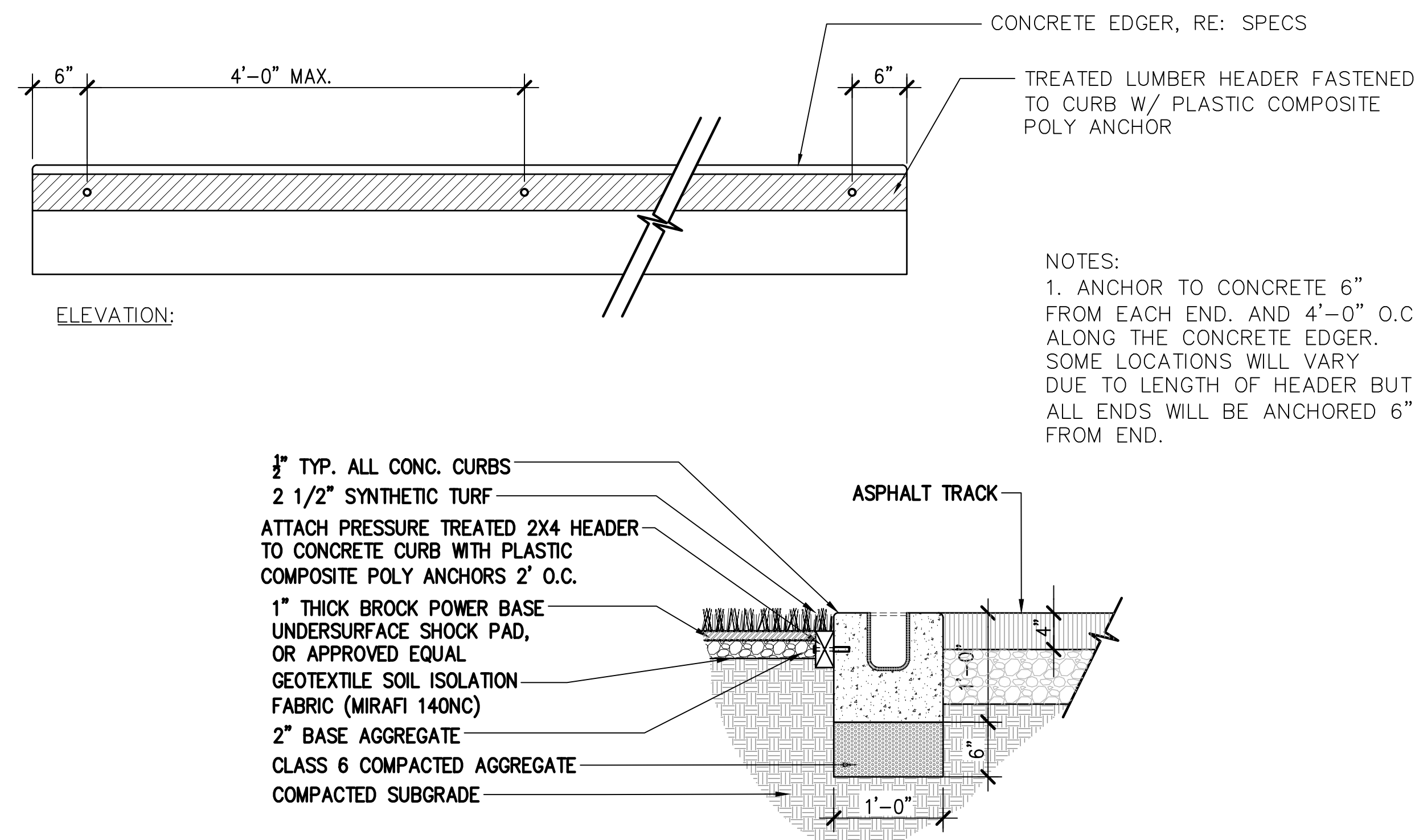
1

N.T.S.

DHM DESIGN

900 S. Broadway
Suite 300
Denver, CO 80209
303.892.5566
www.dhmdesign.com

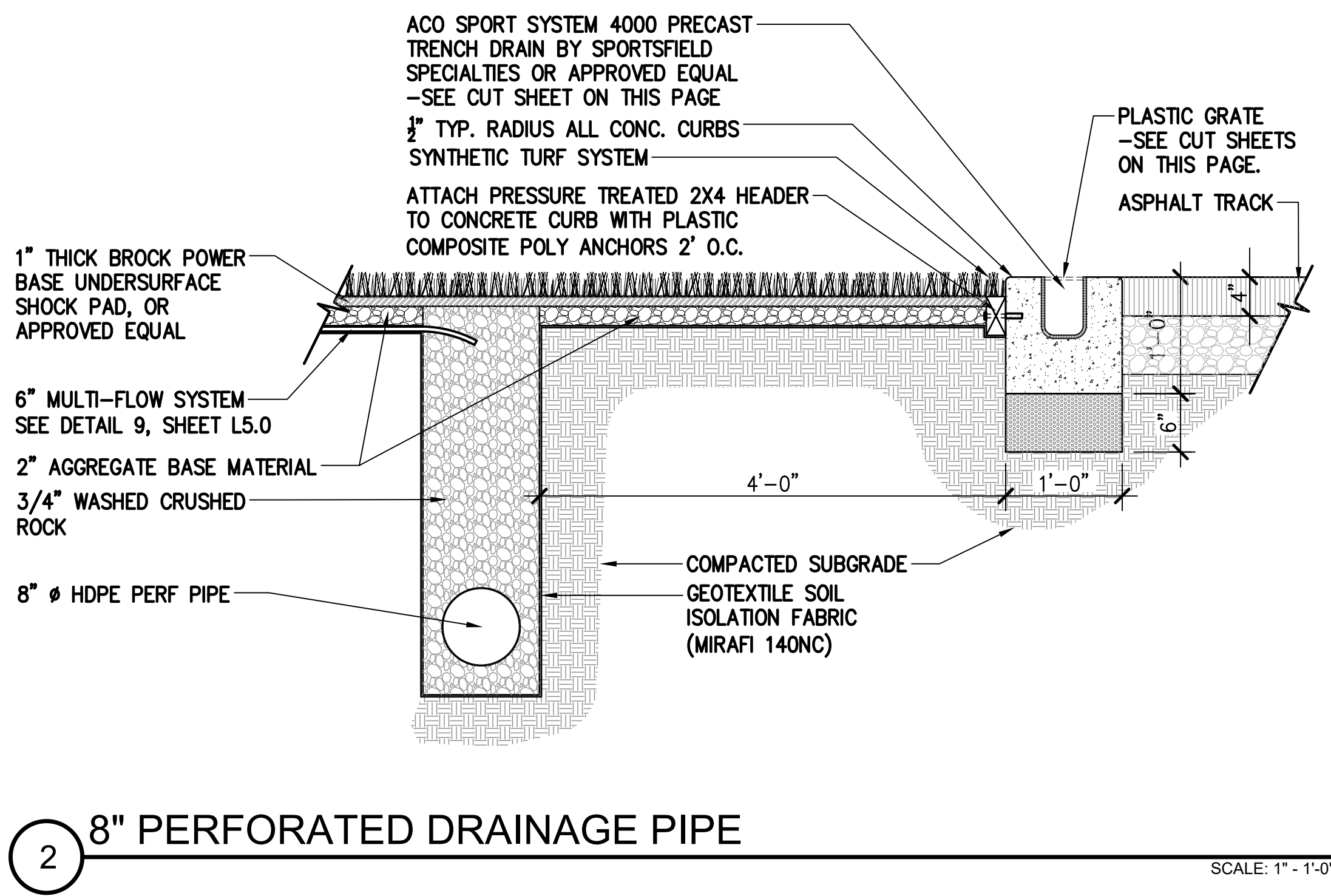
SITE DETAILS



NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FINAL SYNTHETIC TURF STRIPING, LAYOUT, SEAMS, RE: SPECS.
2. HEADER SHALL BE TREATED LUMBER.
3. CATCH BASINS EVERY 90' +/- PER MANUFACTURER'S RECOMMENDATION. SEE CUT SHEET ON THIS PAGE.

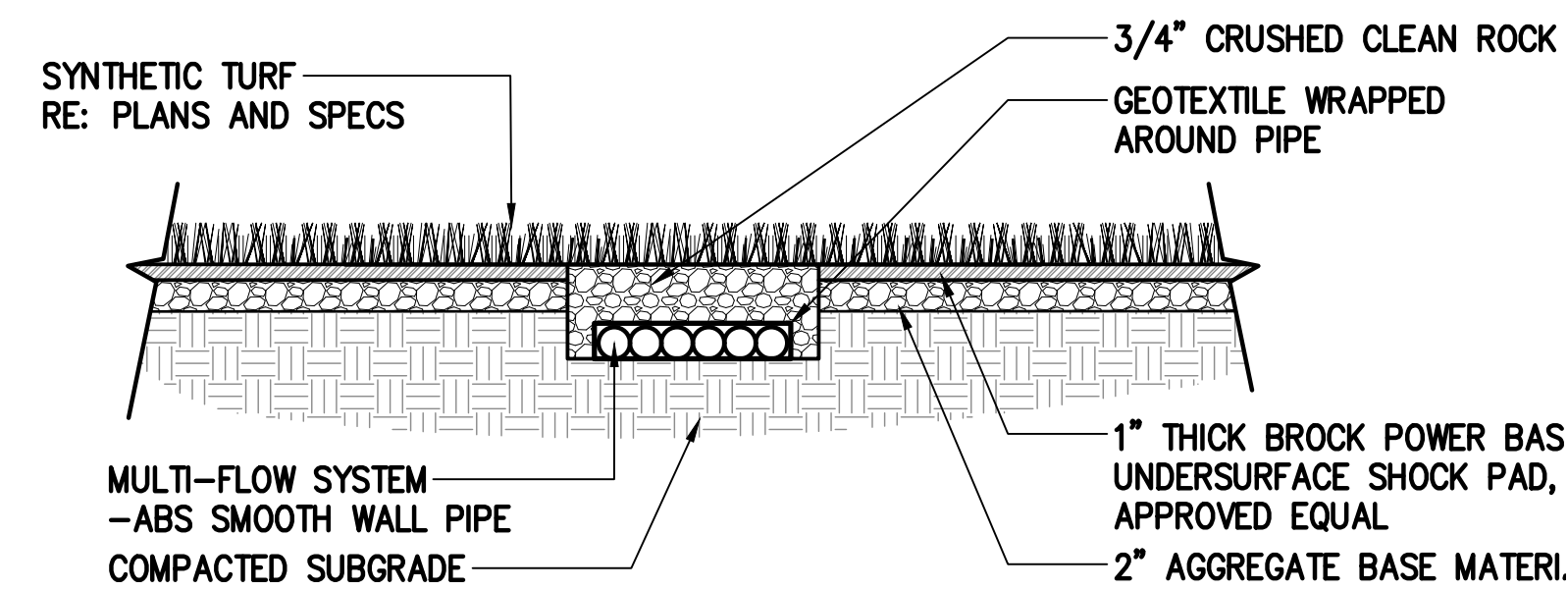
1 TRACK DRAINAGE TRENCH

SCALE: 1" = 1'-0"



2 8" PERFORATED DRAINAGE PIPE

SCALE: 1" = 1'-0"



3 STANDARD 6" MULTI-FLOW SYSTEM

SCALE: 1" = 1'-0"

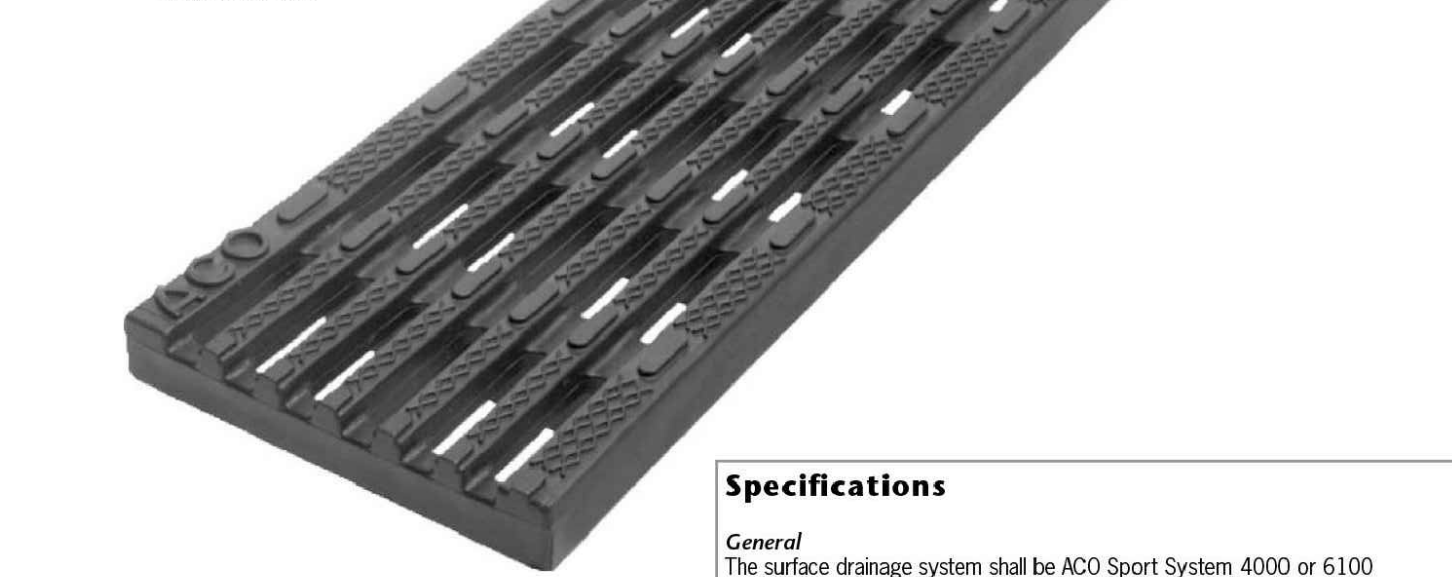
ACO SPORT

ADA Plastic

ADA black plastic

Product Features

- Certified to DIN 19580 Load Class A - 3,500 lbs - 70 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with System 4000 or System 6100 channels
- Manufactured from durable, UV stable polypropylene
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Raised anti-slip surface detail
- Bicycle Tire Penetration Resistant to AS3996-2006



Specifications

- General: The surface drainage system shall be ACO Sport System 4000 or 6100 channels, complete with ACO ADA plastic grate with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.
- Materials: The covers shall be manufactured from polypropylene and have minimum properties as follows:
 - Independently certified to meet Load Class A to DIN 19580 - 3,500 lbs - 70 psi
 - UV stable polypropylene
 - Intake area of 27.4 sq. in. (176.8 cm²) per half meter of grate
- The overall width of 4.84" (123mm) and overall length of 19.69" (500mm). Slots measure 0.33" (8mm) by 1.74" (44mm).
- Installation: The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.
 - * delete as appropriate

ACO Polymer Products, Inc.
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P.O. Box 240
Charlotte, NC 44024
Tel: (440) 285-7000
Tel: (800) 543-6764
Fax: (440) 285-7005

West Sales Office
P.O. Box 12067
Columbus, OH 43024
Tel: (614) 421-9985
Tel: (800) 543-6764
Fax: (614) 421-9989

Electronic Contact:
info@aco-usa.com
www.aco-usa.com

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ACO Sport System 4000 Open channel trench drain system

One meter channel

Half meter channel

In-line catch basin

Outlet flow rates

Outlet

Product

Outlet size

Invert

Depth

GPM

CMFS

A Bottom outlet - 40103

B Bottom outlet - 40303

C Bottom outlet - 40303

D Outlet cap - 4010

E Outlet cap - 4030

F In-line catch basin

G In-line catch basin

H In-line catch basin

I In-line catch basin

J In-line catch basin

K In-line catch basin

L In-line catch basin

M In-line catch basin

N In-line catch basin

O In-line catch basin

P In-line catch basin

Q In-line catch basin

R In-line catch basin

S In-line catch basin

T In-line catch basin

U In-line catch basin

V In-line catch basin

W In-line catch basin

X In-line catch basin

Y In-line catch basin

Z In-line catch basin

AA In-line catch basin

AB In-line catch basin

AC In-line catch basin

AD In-line catch basin

AE In-line catch basin

AF In-line catch basin

AG In-line catch basin

AH In-line catch basin

AI In-line catch basin

AJ In-line catch basin

AK In-line catch basin

AL In-line catch basin

AM In-line catch basin

AN In-line catch basin

AO In-line catch basin

AP In-line catch basin

AQ In-line catch basin

AR In-line catch basin

AS In-line catch basin

AT In-line catch basin

AU In-line catch basin

AV In-line catch basin

AW In-line catch basin

AX In-line catch basin

AY In-line catch basin

AZ In-line catch basin

BA In-line catch basin

BB In-line catch basin

BC In-line catch basin

BD In-line catch basin

BE In-line catch basin

BF In-line catch basin

BG In-line catch basin

BH In-line catch basin

BI In-line catch basin

BJ In-line catch basin

BK In-line catch basin

BL In-line catch basin

BM In-line catch basin

BN In-line catch basin

BO In-line catch basin

BP In-line catch basin

BQ In-line catch basin

BR In-line catch basin

BS In-line catch basin

BT In-line catch basin

BU In-line catch basin

BV In-line catch basin

BW In-line catch basin

BX In-line catch basin

BY In-line catch basin

BZ In-line catch basin

CA In-line catch basin

CB In-line catch basin

CC In-line catch basin

CD In-line catch basin

CE In-line catch basin

CF In-line catch basin

CG In-line catch basin

CH In-line catch basin

CI In-line catch basin

CJ In-line catch basin

CK In-line catch basin

CL In-line catch basin

CM In-line catch basin

CN In-line catch basin

CO In-line catch basin

CP In-line catch basin

CQ In-line catch basin

CR In-line catch basin

CS In-line catch basin

CT In-line catch basin

CU In-line catch basin

CV In-line catch basin

CW In-line catch basin

CX In-line catch basin

CY In-line catch basin

CZ In-line catch basin

DA In-line catch basin

DB In-line catch basin

DC In-line catch basin

DD In-line catch basin

DE In-line catch basin

DF In-line catch basin

DG In-line catch basin

DH In-line catch basin

DI In-line catch basin

DJ In-line catch basin

DK In-line catch basin

DL In-line catch basin

DM In-line catch basin

DN In-line catch basin

DO In-line catch basin

DP In-line catch basin

DQ In-line catch basin

DR In-line catch basin

DS In-line catch basin

DT In-line catch basin

DU In-line catch basin

DV In-line catch basin

DW In-line catch basin

DX In-line catch basin

DY In-line catch basin

DZ In-line catch basin

EA In-line catch basin

EB In-line catch basin

EC In-line catch basin

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EE In-line catch basin

EF In-line catch basin

EG In-line catch basin

EH In-line catch basin

EI In-line catch basin

EJ In-line catch basin

EK In-line catch basin

EL In-line catch basin

EM In-line catch basin

EN In-line catch basin

EO In-line catch basin

EP In-line catch basin

EQ In-line catch basin

ER In-line catch basin

ES In-line catch basin

ET In-line catch basin

EU In-line catch basin

EV In-line catch basin

EW In-line catch basin

EX In-line catch basin

EY In-line catch basin

EZ In-line catch basin

FA In-line catch basin

FB In-line catch basin

FC In-line catch basin

FD In-line catch basin

FE In-line catch basin

FF In-line catch basin

FG In-line catch basin

FH In-line catch basin

FI In-line catch basin

FJ In-line catch basin

FK In-line catch basin

FL In-line catch basin

FM In-line catch basin

FN In-line catch basin

FO In-line catch basin

FP In-line catch basin

FQ In-line catch basin

FR In-line catch basin

FS In-line catch basin

FT In-line catch basin

FU In-line catch basin

FV In-line catch basin

FW In-line catch basin

FX In-line catch basin

FY In-line catch basin

FZ In-line catch basin

GA In-line catch basin

GB In-line catch basin

GC In-line catch basin

GD In-line catch basin

GE In-line catch basin

GF In-line catch basin

GG In-line catch basin

GH In-line catch basin

GI In-line catch basin

GJ In-line catch basin

GK In-line catch basin

GL In-line catch basin

GM In-line catch basin

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GO In-line catch basin

GP In-line catch basin

GQ In-line catch basin

GR In-line catch basin

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GV In-line catch basin

GW In-line catch basin

GX In-line catch basin

GY In-line catch basin

GZ In-line catch basin

HA In-line catch basin

HB In-line catch basin

HC In-line catch basin

HD In-line catch basin

HE In-line catch basin

HF In-line catch basin

HG In-line catch basin

HH In-line catch basin

HI In-line catch basin

HJ In-line catch basin

HK In-line catch basin

HL In-line catch basin

HM In-line catch basin

HN In-line catch basin

HO In-line catch basin

HP In-line catch basin

HQ In-line catch basin

HR In-line catch basin

HS In-line catch basin

HT In-line catch basin

HU In-line catch basin

LEGEND

NATIVE SEED

ROCK MULCH

HWM

X

DECIDUOUS TREE

DECIDUOUS SHRUBS

EVERGREEN SHRUBS

ORNAMENTAL GRASSES

LIMITS OF CONSTRUCTION

MATCHLINE



REFER TO SHEET

IR2.0

IRRIGATION PLANS

IR2.1

IRRIGATION NOTES

IR2.1

IRRIGATION SCHEDULE

IR2.1 - IR2.2

IRRIGATION DETAILS

811

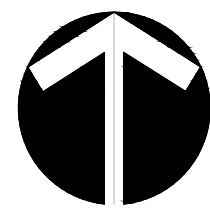
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860 Tabor Street, Suite 200
o: 303.980.5327

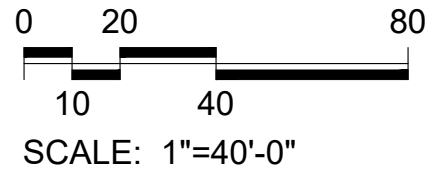
Lakewood, Colorado 80401
www.hydrosystems-kdi.com



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1.40

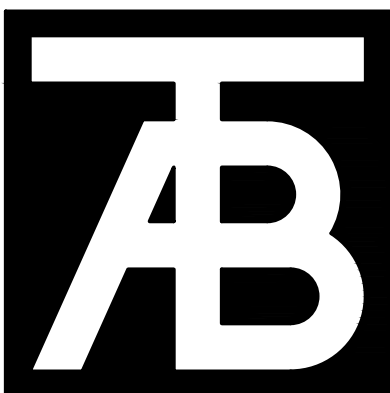
IRRIGATION PLAN

1" = 40' - 0"



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BG BuildingWorks
970-949-6108

Electrical Engineer:
BG BuildingWorks
970-949-6108

Seal

Steamboat Springs Middle School
39610 Amethyst Drive
Steamboat Springs, CO






















Revisions:		
No	Description	Date

Issue Dates:
01/13/20 - SD
02/21/20 DD
04/06/20 - CD

Sheet Title:
IRRIGATION
PLAN

Project No:
1935.01

Sheet No:
IR2.0

IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
	HUNTER	I-20-12 WITH # STANDARD NOZZLE (BLUE)	HI-POP GEAR STREAM DRIVEN ROTOR	1
	RAIN BIRD	44-LRC	QUICK COUPLING VALVE	3
	MATCO	201X	MANUAL DRAIN VALVE	4
		LINE SIZE - 3" AND LARGER	GATE VALVE	5
	HUNTER	ICV-FS-R-AS-ADJ	ELECTRIC CONTROL VALVE	2
			THRUST BLOCKS	7
		CLASS 200 RT - 3" & LARGER	PVC MAINLINE	6
		CLASS 200 BE	PVC LATERAL	6
		CLASS 160	PVC SLEEVING	8
	TORO	BLUE STRIPE	POLY DRIP TUBING - 3/4" MIN. WIDTH	9
	RAIN BIRD	XERI-BUG	DRIP EMITTERS	9
			DRIP LINE BLOW-OUT STUB	10
			WIRE SPLICES	11
			EXISTING CONTROL VALVE	
			EXISTING DRIP VALVE	
			EXISTING MAINLINE	
			EXISTING LATERAL LINE	
			EXISTING SLEEVING	
			EXISTING DRIP VALVE	
				
CONTROLLER & STATION NO. CONTROL VALVE SIZE				
 NUMBER OF SPARE WIRES - 2 CONTROL AND 1 SPARE WIRES TO WHICH CONTROLLER - SEE CONSTRUCTION NOTES				

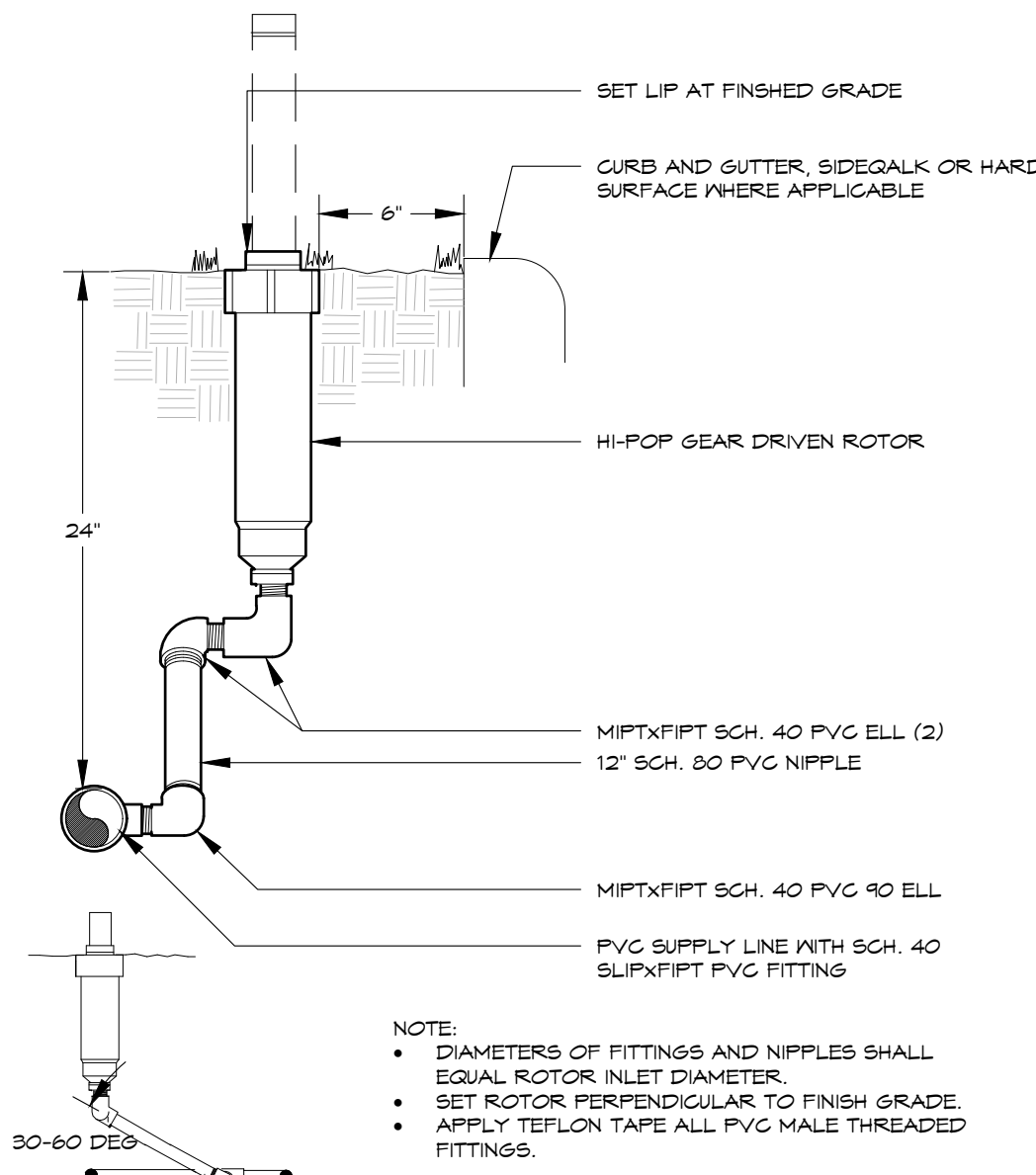
IRRIGATION CONSTRUCTION NOTES

- DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY DHM DESIGN. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*SKI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*SKI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. CONTACT IRRIGATION CONSULTANT FOR CURRENT SPECIFICATIONS IF NOT PROVIDED.
- SYSTEM PRESSURE - HYDROSYSTEMS*SKI HAS TOLD, BY SCHOOL STAFF, THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 70 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*SKI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*SKI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*SKI OR ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 70 PSI MINIMUM.
- IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A SIX NIGHT PER WEEK, EIGHT-HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO THREE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.

BLUEGRASS TURF	2.23" PER WEEK PEAK SEASON
ORNAMENTAL PLANTINGS	0.89" PER WEEK PEAK SEASON
NATIVE SEED MIXES	0.74" PER WEEK PEAK SEASON (TWO SEASONS)

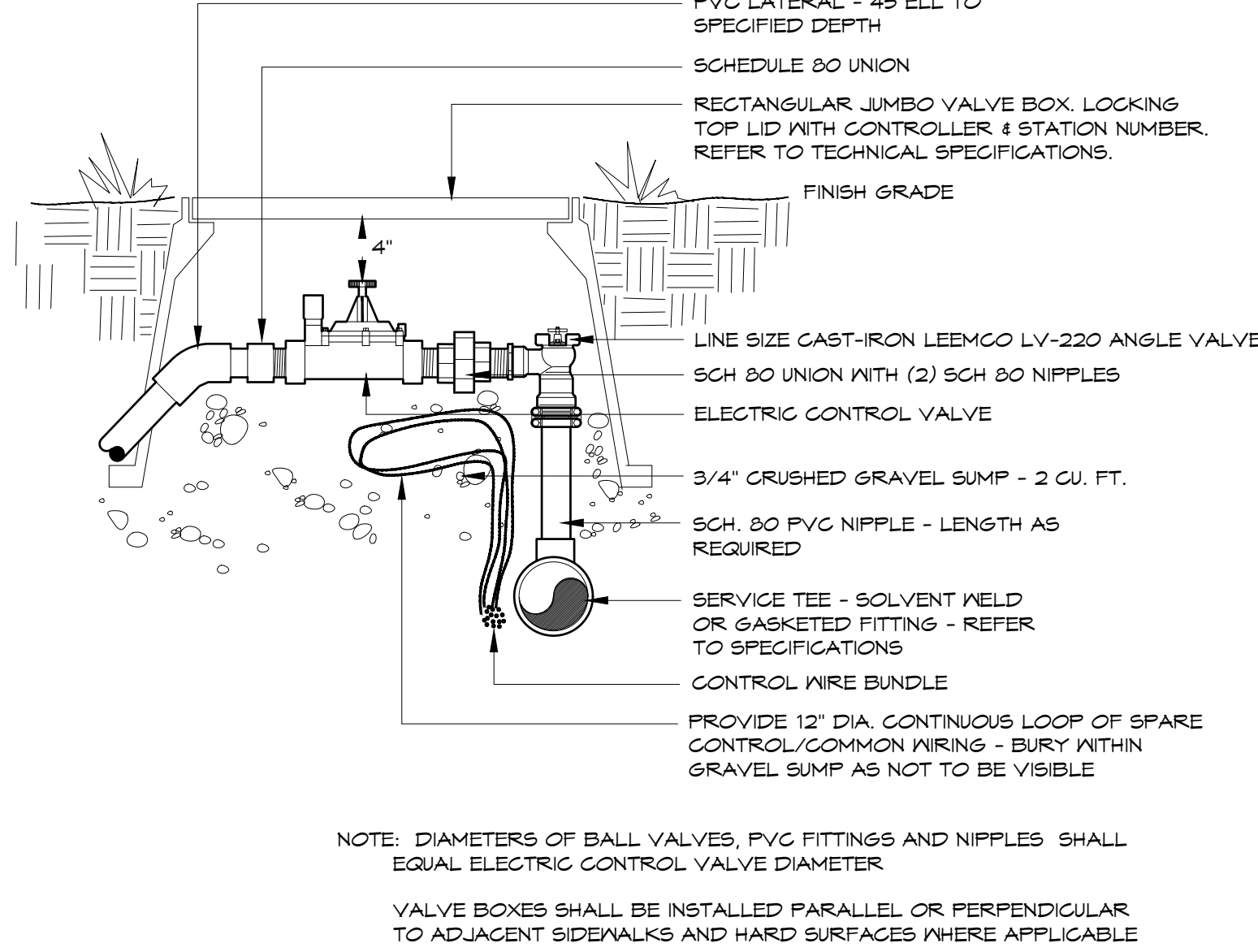
NOTE: IT IS THE INTENT OF THIS DESIGN THAT NATIVE AREAS WOULD ONLY BE IRRIGATED FOR ESTABLISHMENT. SYSTEM WILL REMAIN FOR USE DURING YEARS WITH LESS THAN NORMAL RAINFALL.
- EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVING THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC. BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN PAVED MULCH, GRAY IN STONE MULCH, PURPLE FOR REGAINED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER.
- PIPING INSTALLATION - IRRIGATION PIPING SHALL MAINTAIN A MINIMUM DISTANCE FROM BUILDING FOUNDATIONS OF 5 FEET OR AS DESCRIBED IN SOILS REPORT, WHICHEVER IS GREATER. NO SPRAY IRRIGATION SHALL OCCUR WITHIN 10 FEET OF THE FOUNDATION. NO DRIP IRRIGATION SHALL OCCUR WITHIN 5 FEET OF THE FOUNDATION UNLESS SOIL MOISTURE SENSORS ARE INSTALLED ON VALVES SERVICING THESE AREAS. ALL IRRIGATION PIPING AND EMISSION DEVICES LOCATED ON TOP OF OR WITHIN BUILDING STRUCTURE SHALL CONFORM TO WATERPROOFING CONSULTANT REQUIREMENTS. PIPE ROUTING MAY BE SHOWN WITHIN THESE DISTANCES FOR GRAPHICAL CLARITY ONLY.
- MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO ENSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
- UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
- SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVES. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE & (QUANTITY)
3/4" - 1 1/2" PIPING	2" PVC (1)
1 1/2" - 2" PIPING	4" PVC (1)
2 1/2" - 3" PIPING	6" PVC (1)
4" PIPING	8" PVC (1)
1-25 CONTROL WIRES	2" PVC (1)
26-50 CONTROL WIRES	3" PVC (1)
- SPARE CONTROL WIRES - CONTRACTOR SHALL EXTEND THREE SPARE WIRES (ONE COMMON AND 2 CONTROL WIRES) FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER OR AS SHOWN ON THE PLANS. INSTALL SPARE WIRES IN 10" ROUND VALVE BOX WITH QUICK COUPLING VALVE. REFER TO SPECIFICATIONS FOR WIRE COLOR. SEE IRRIGATION SCHEDULE FOR ADDITIONAL INFORMATION.
- ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
- PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT. WHERE REQUIRED BY CITY OR TOWN, CONTRACTOR SHALL CONSTRUCT ONLY OFF CITY OR TOWN STAMPED PLANS. REVISIONS TO CITY OR TOWN STAMPED PLANS SHALL CONFORM TO CITY OR TOWN FIELD CHANGE PROCEDURES AND DOCUMENTATION.
- EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION AND CONSTRUCTION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.
- EXISTING IRRIGATION COORDINATION - EXISTING IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR MORE THAN 24 HOURS MAXIMUM. CONTRACTOR SHALL COORDINATE TURN OFF OF SYSTEM WITH OWNER OR MAINTENANCE STAFF 12 HOURS PRIOR TO ANY NEW CONSTRUCTION.



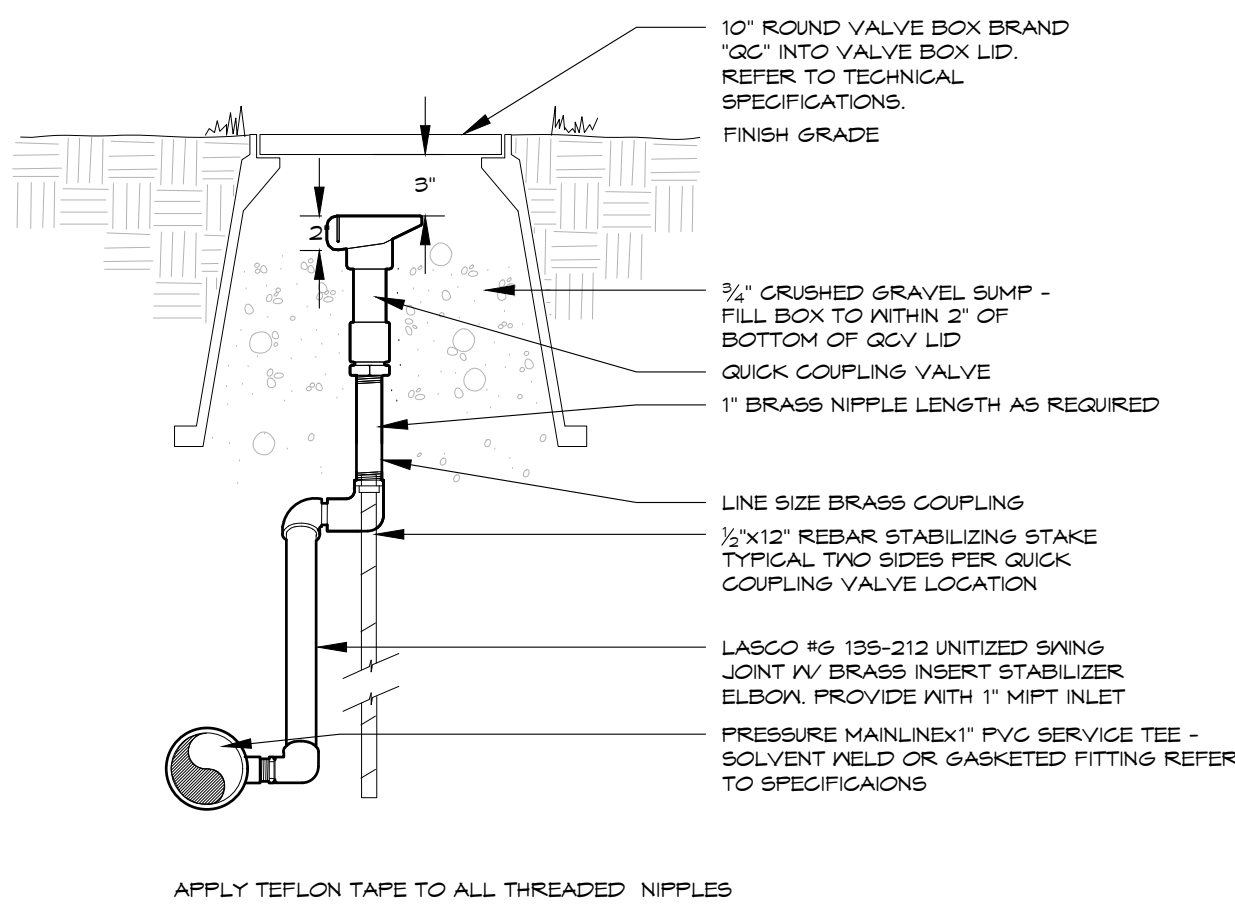
HI-POP GEAR DRIVEN ROTOR

1



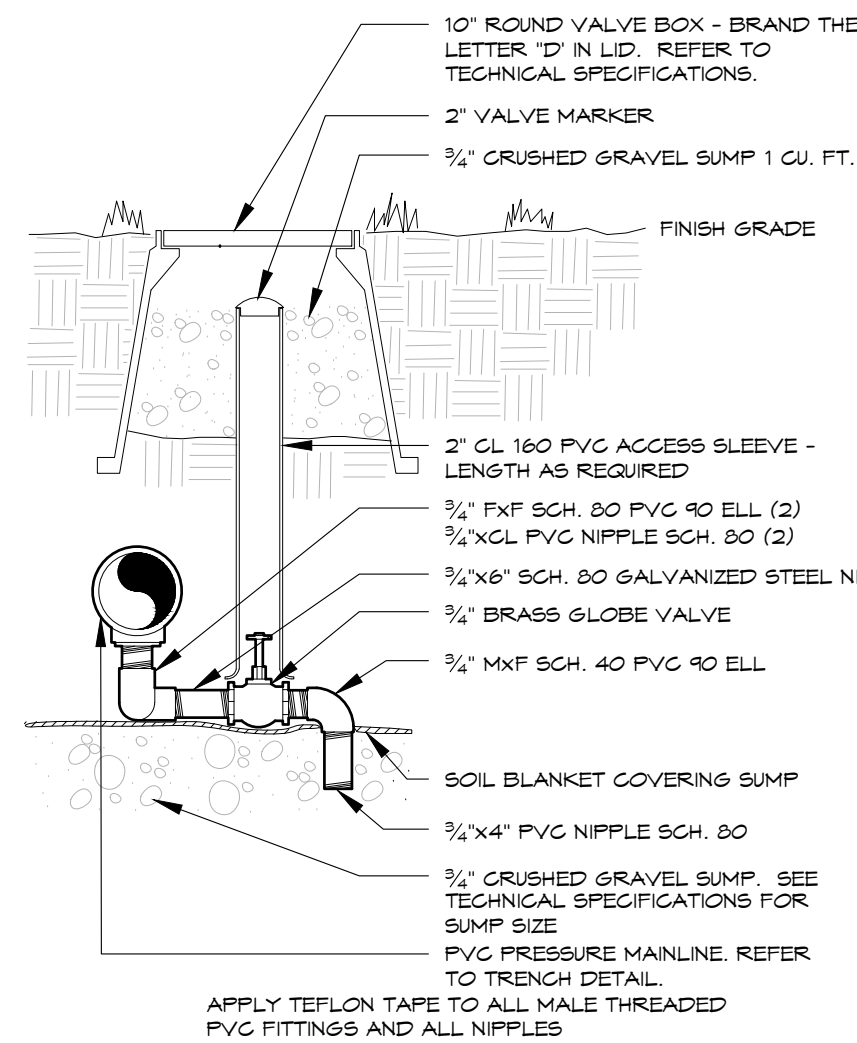
ELECTRIC CONTROL VALVE

2



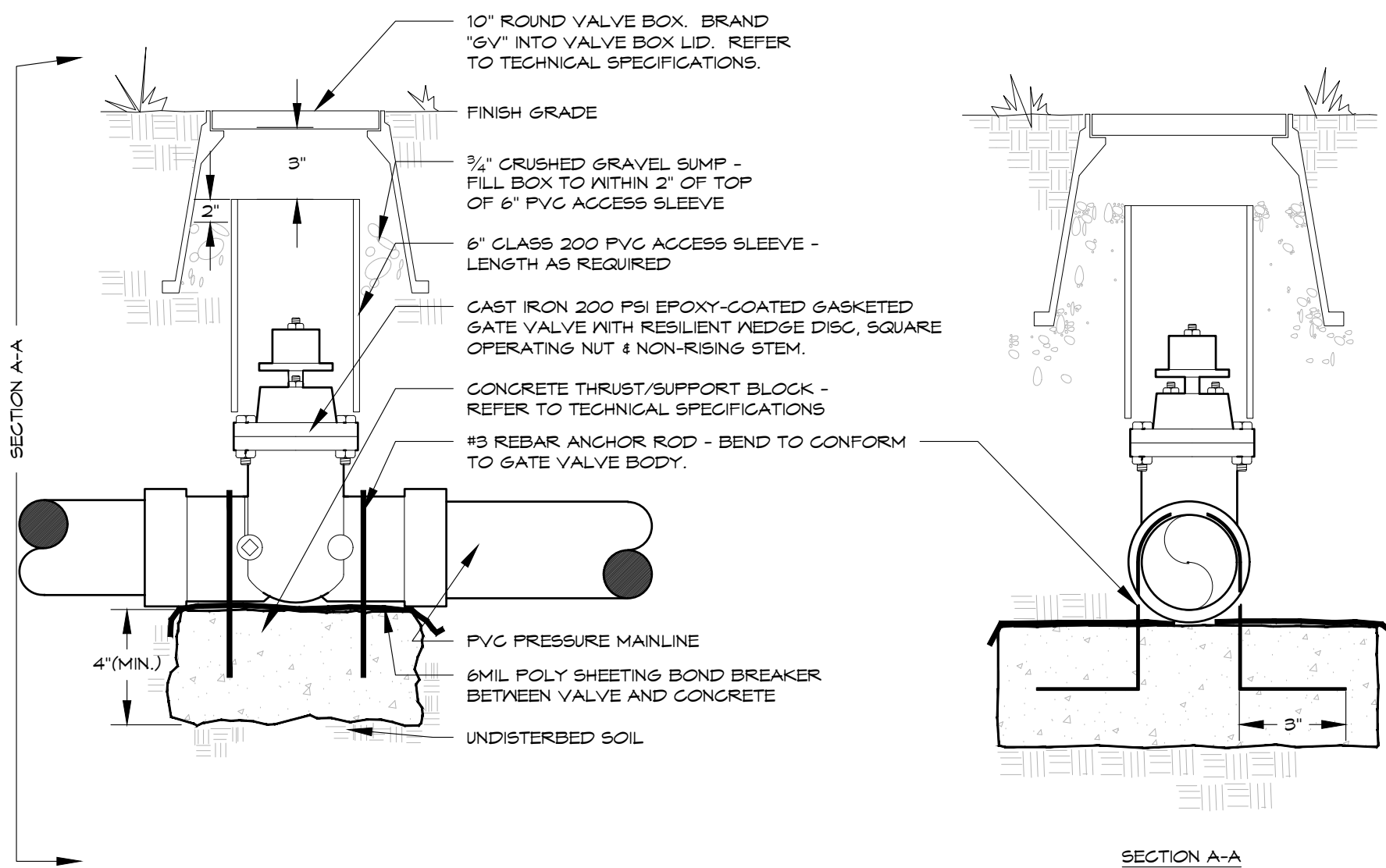
QUICK COUPLING VALVE

3



MANUAL DRAIN VALVE

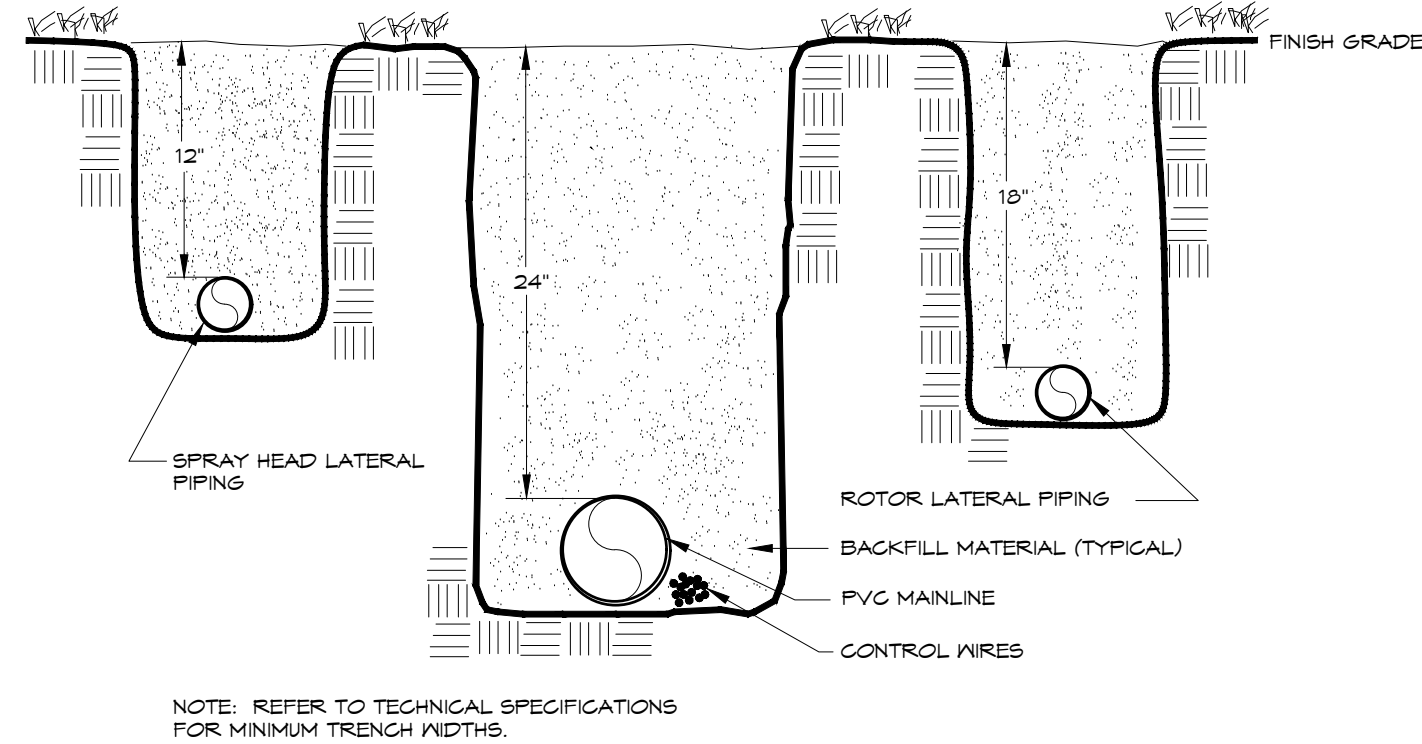
4



GATE VALVE

3" & LARGER - REBARANCHOR

5

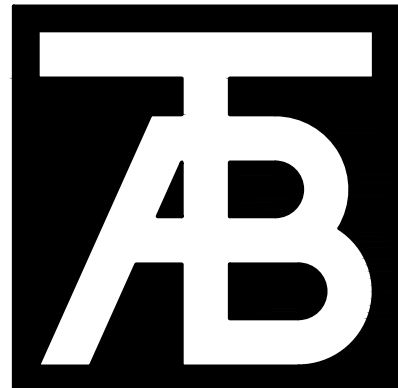


TRENCH

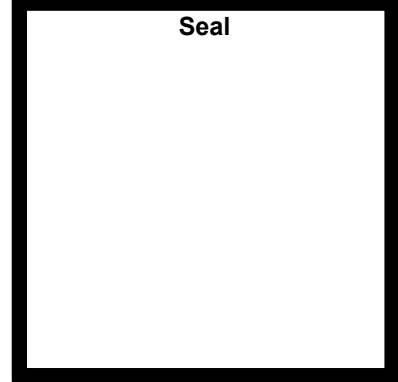
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REFER TO SHEET

IR2.0 IRRIGATION PLANS
IR2.1 IRRIGATION NOTES
IR2.1 IRRIGATION SCHEDULE
IR2.1 - IR2.2 IRRIGATION DETAILS



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Steamboat Springs Middle School
39610 Amethyst Drive
Steamboat Springs, CO

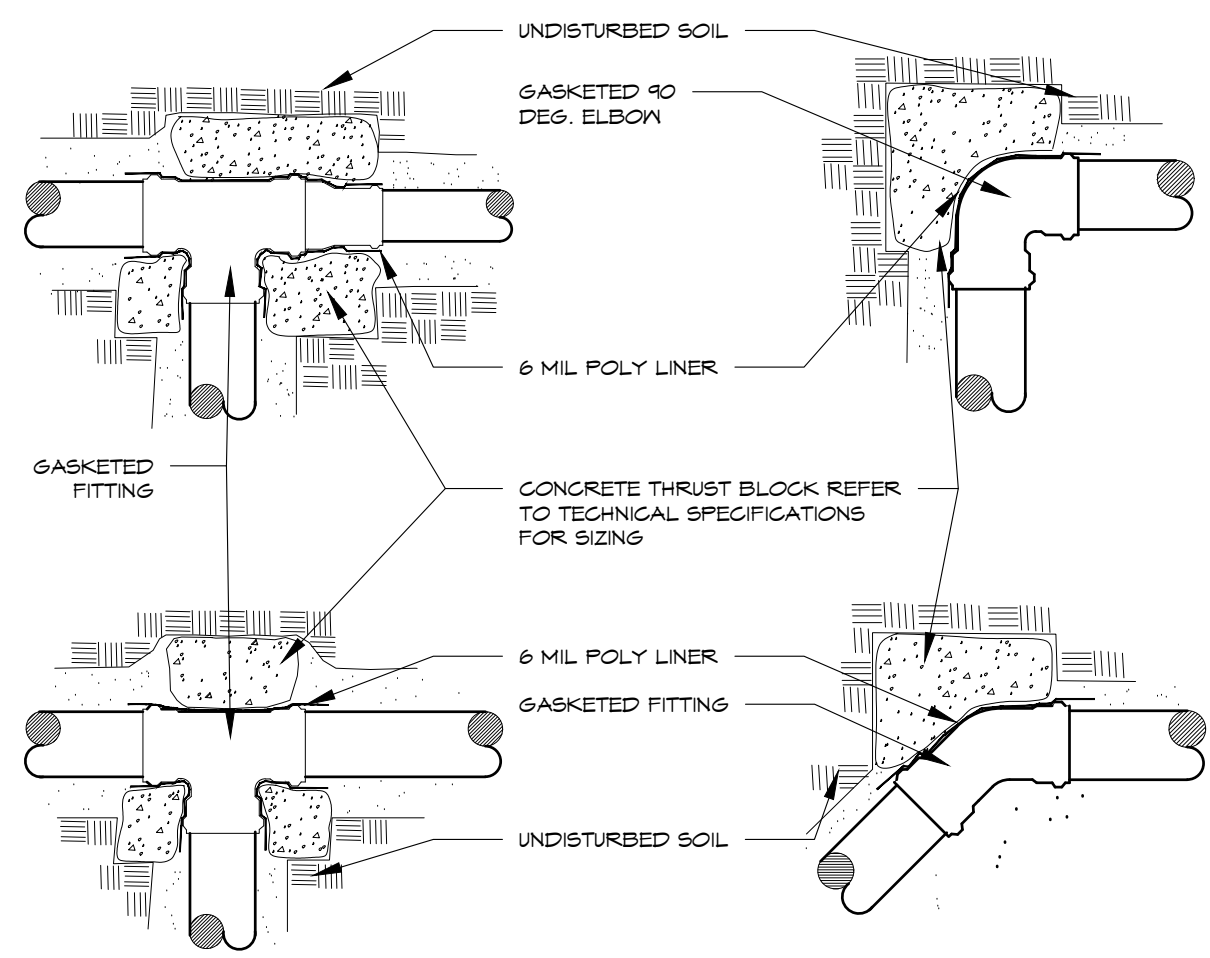
Revisions:		
No.	Description	Date

Issue Dates:
01/13/20 - SD
02/21/20 - DD
04/06/20 - CD

Sheet Title:
IRRIGATION NOTES, SCHEDULE AND DETAILS

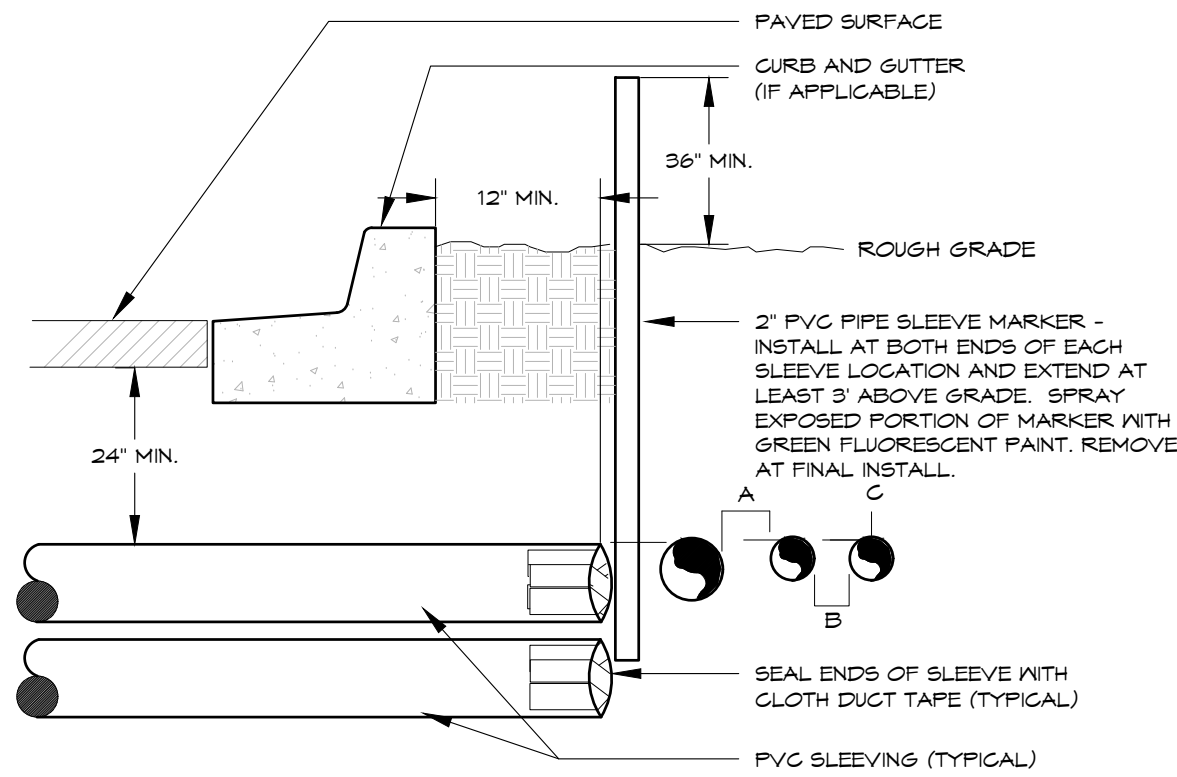
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1935.01

Sheet No:
IR2.1



THRUST BLOCKS

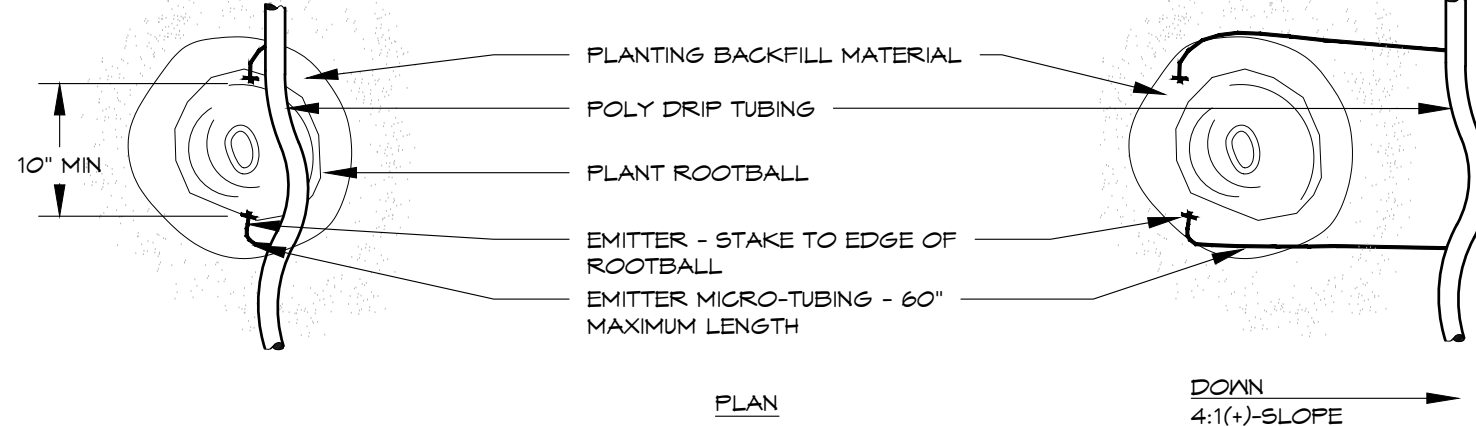
7



- NOTE:
- ALL SLEEVE MATERIAL PER IRRIGATION SCHEDULE, SIZE AS NOTED ON PLAN.
 - INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.
 - CONTRACTOR TO COORDINATE WITH PLANTWORK INSTALLER TO BRAND A "V" IN SIDEWALK OR CURB AT BOTH ENDS OF SLEEVE CROSSING.
 - SLEEVES THROUGH OR UNDER RETAINING WALLS, PLANTER WALLS, POND LINING, OR WATER QUALITY AREAS SHALL BE COORDINATED WITH CIVIL WORK AT APPROXIMATE LOCATIONS SHOWN.

IRRIGATION SLEEVING

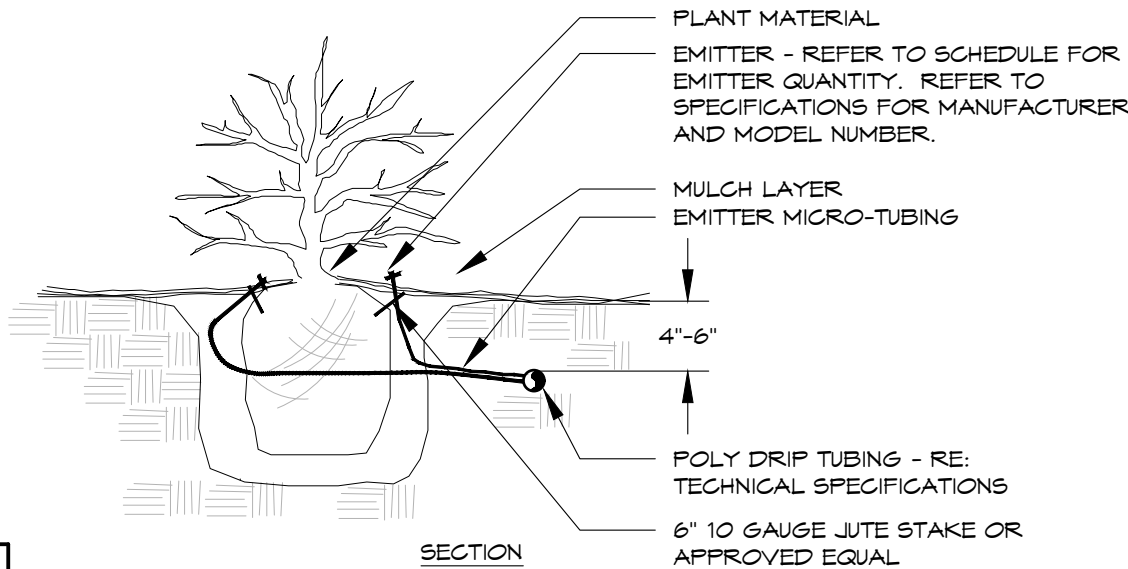
8



PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
3 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
1 1/2" GALIPER TREE	1.0 GPH	THREE EACH	FOUR EACH
2" GALIPER TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2" GALIPER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3" GALIPER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2" GALIPER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4" GALIPER TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH

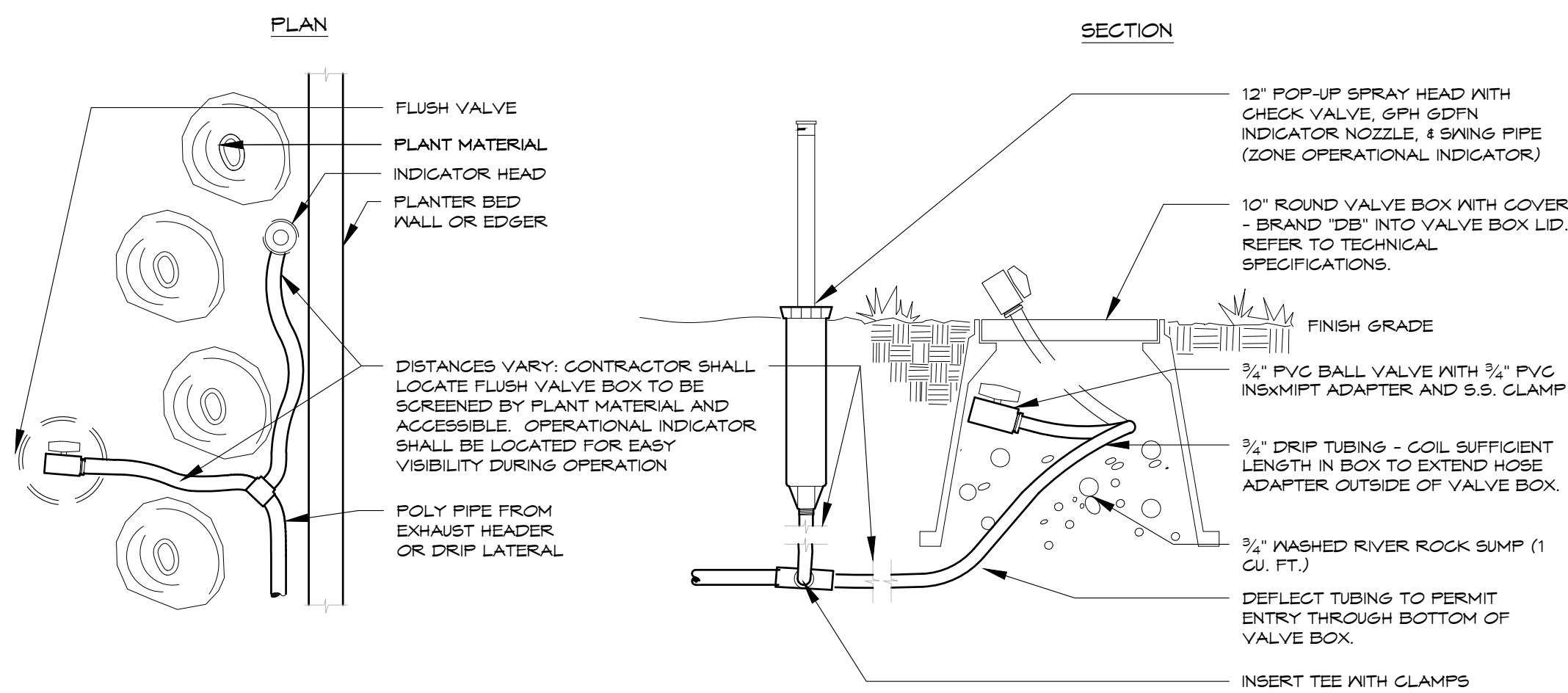
DRIP EMITTER

BELOW GRADE



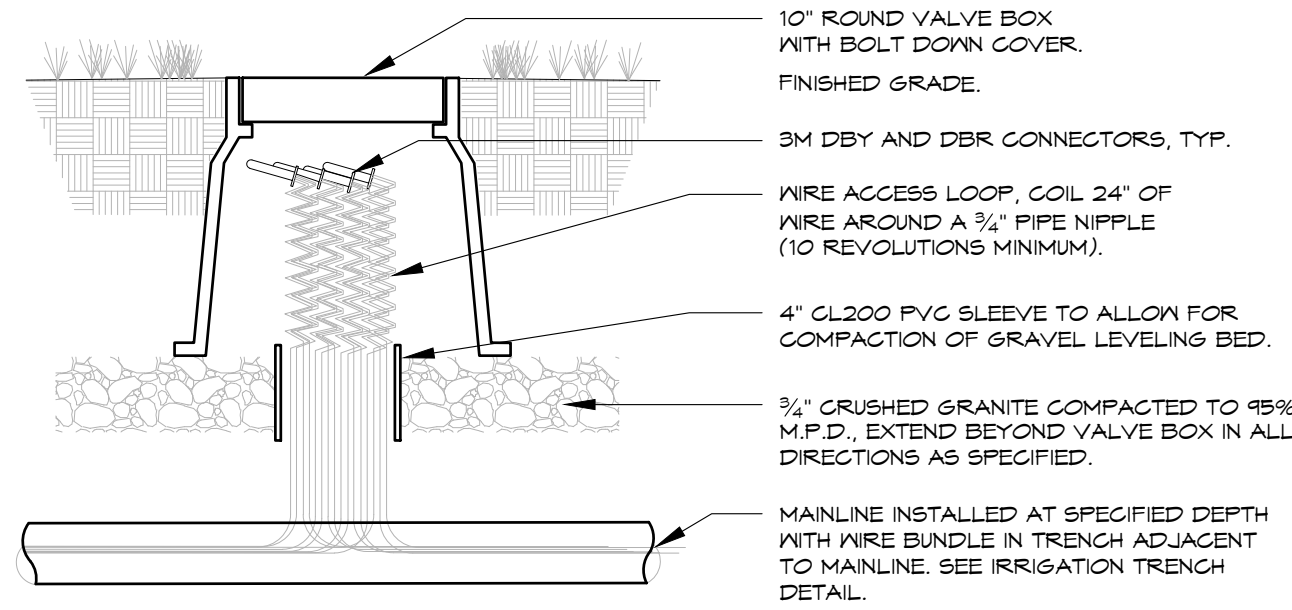
- NOTES:
- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
 - EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
 - FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
 - IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
 - EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
 - DRIP VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
 - CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
 - SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS:
 - EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGES SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
 - EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
 - PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

9



DRIP FLUSH VALVE
WITH OPERATIONAL INDICATOR

10



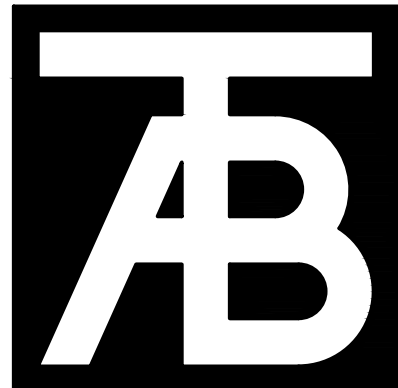
- NOTE:
1. SET TOP OF BOX LEVEL WITH FINISHED GRADE IN TURF AREAS AND LEVEL WITH TOP OF MULCH IN SHRUB BEDS.
 2. USE STANDARD RECTANGULAR VALVE BOX WITH BOLT DOWN LID FOR SPLICES OF MORE THAN TWENTY (20) WIRES.

WIRE SPLICE BOX

11

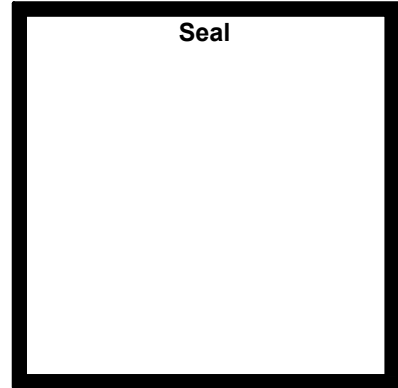
REFER TO SHEET

IR2.0	IRRIGATION PLANS
IR2.1	IRRIGATION NOTES
IR2.1	IRRIGATION SCHEDULE
IR2.1 - IR2.2	IRRIGATION DETAILS



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04/06/20 - CD

Sheet Title:
**IRRIGATION
DETAILS**

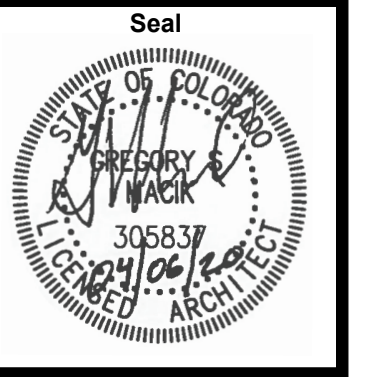
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Sheet No:
IR2.2



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Issue Dates:
Initial SD - 12/20/19
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95% CD - 03/30/20
CD's - 04/07/20

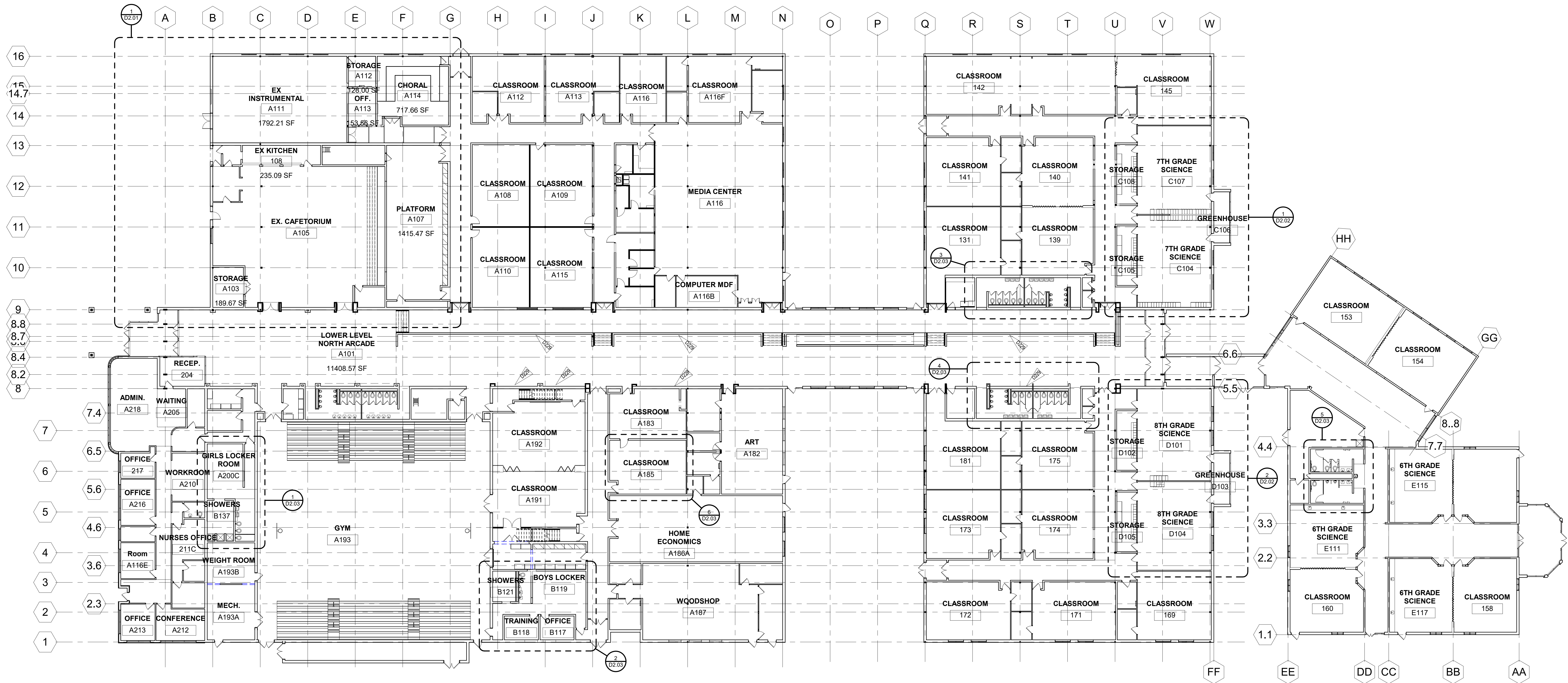
Sheet Title:

**Demo
Overall
Floor Plan**

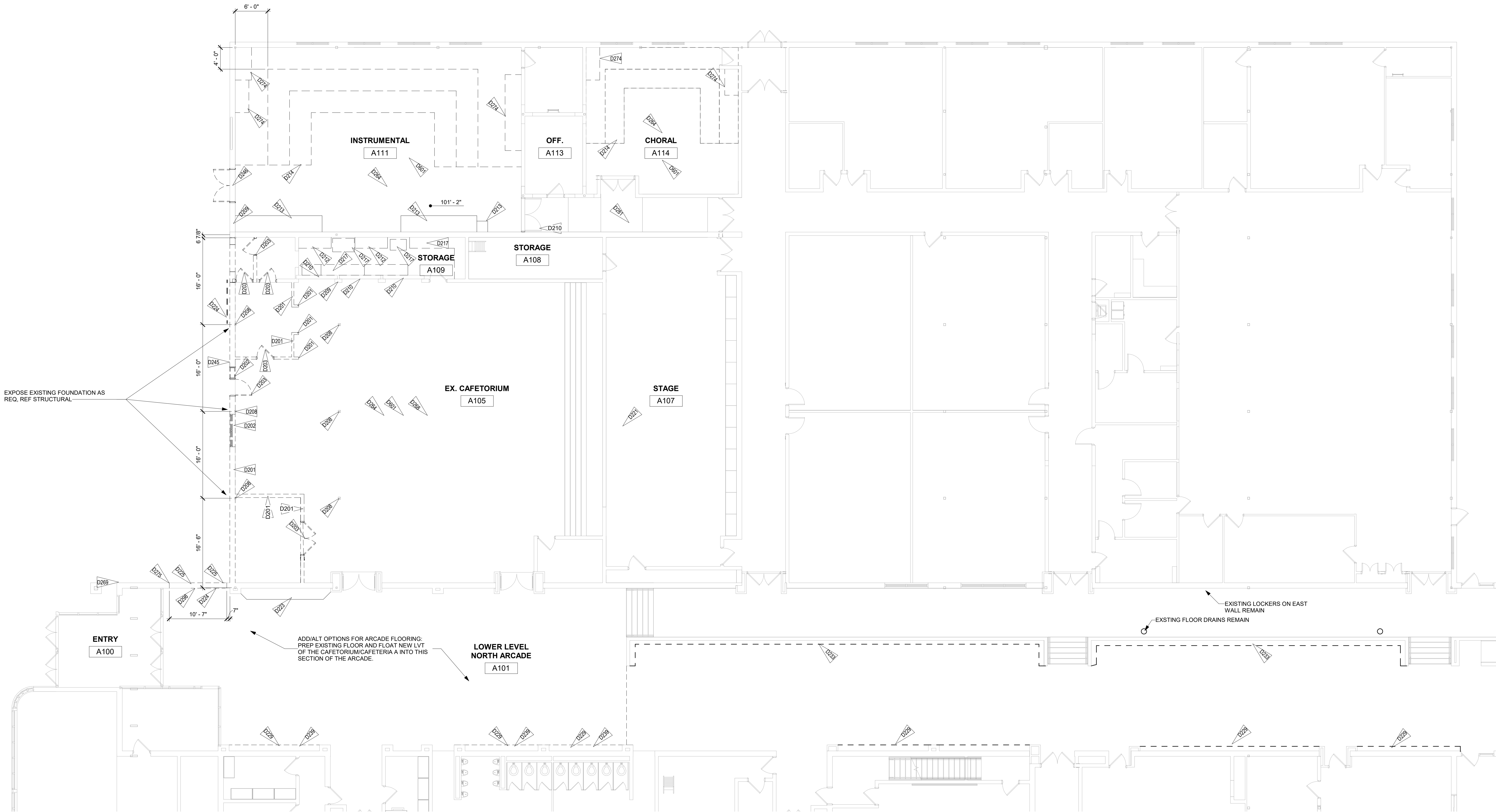
Project No:
1935.03

Sheet No:
D2.00

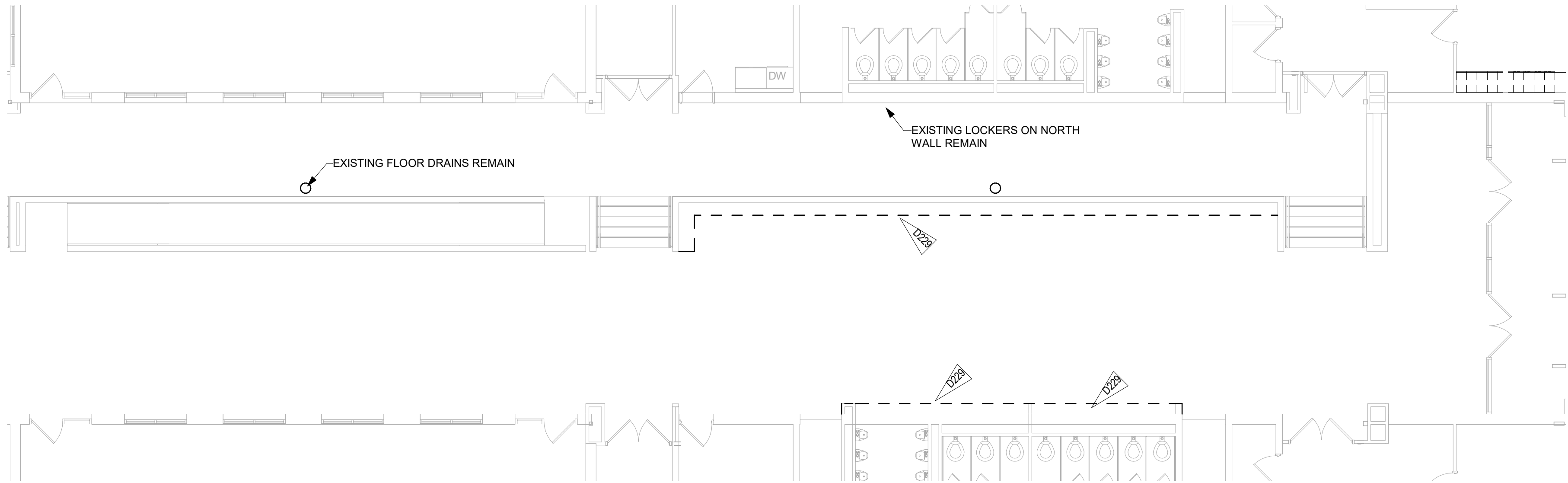
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D229	REMOVE EXISTING LOCKERS AND CONCRETE CURB TO FLUSH OUT WITH T.O. BRICK FLOORING



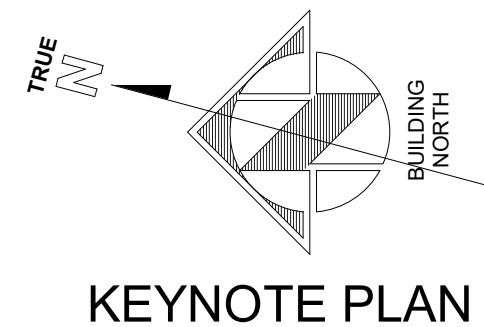
1 OVERALL EXISTING PLAN DEMO
D2.00 1/16" = 1'-0"



1 DEMO ARCH PLAN AREA A
1/8" = 1'-0"



2 DEMO ARCH PLAN AREA A Arcade
1/8" = 1'-0"



NOTES:

GENERAL DEMOLITION NOTES:

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- COORDINATE DISRUPTION OF UTILITY SERVICES WITH OWNER AND AS SATISFIED.
- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS AND NOTIFY ARCHITECT OF DISCREPANCIES.
- ITEMS NOT SHOWN DASHED ARE TO REMAIN. ALL DASHED ITEMS REPRESENT ITEMS TO BE REMOVED. COORDINATE REMOVAL WITH NEW ITEMS SHOWN IN DRAWINGS.
- REMOVE EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, ETC. IN THEIR ENTIRETY AND AS REQUIRED TO EXECUTE DEMOLITION AND CONSTRUCTION WORK AS DESCRIBED ON THE DRAWINGS.
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- SALVAGE AND STORE ALL EXISTING FURNISHINGS AND EQUIPMENT IN EXISTING SPACES NOTED FOR REMOVAL.
- NOT ALL ITEMS TAGGED FOR CLARITY. ASSUME REMOVE IF DASHED.

DEMOLITION DEFINITIONS:

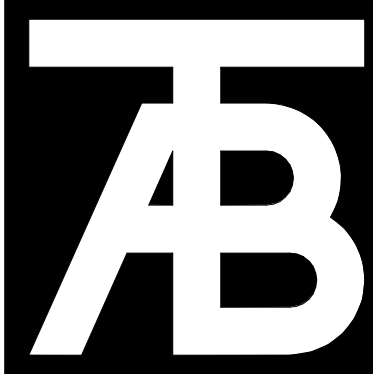
- REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF SITE. UNLESS OTHERWISE INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.
- SALVAGE: DETACH ITEMS FROM EXISTING CONDITIONS AND RETURN TO OWNER READY FOR REUSE.
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DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING SLAB AREA TO BE DEMOED FOR NEW PLUMBING AND/OR SANITARY LINES

Keynote Legend

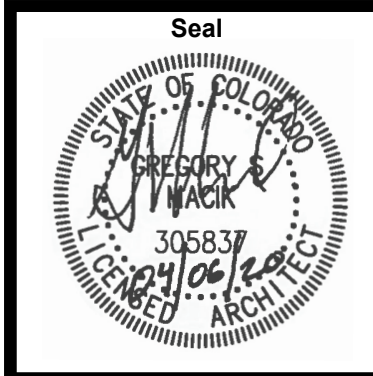
Key Value	Keynote Text
D201	REMOVE EXISTING WALL
D202	REMOVE EXISTING WINDOW
D203	REMOVE EXISTING DOOR AND DOOR FRAME
D208	EXISTING STRUCTURE TO REMAIN, REF STRUCTURE DWGS
D209	EXISTING WALL TO REMAIN
D210	EXISTING DOOR TO REMAIN
D212	REMOVE EXISTING CASEWORK
D213	EXISTING CASEWORK TO REMAIN
D214	REMOVE FLOOR RISERS
D217	REMOVE EXISTING KITCHEN EQUIPMENT, REF KITCHEN DWGS AND OWNER FOR REUSE
D221	EXISTING STAGE TO REMAIN
D223	EXISTING CLIMBING WALL TO REMAIN
D224	SALVAGE SIGN FOR RELOCATION
D225	REMOVE PORTION OF EXISTING WALL FOR NEW DOOR
D229	REMOVE EXISTING LOCKERS AND CONCRETE CURB TO FLUSH OUT WITH T.O. BRICK FLOORING
D233	SALVAGE SINK FOR REINSTALLATION
D239	REMOVE EXISTING TROPHY CASE
D245	COORDINATE REMOVAL OF EXISTING HOSE BIB
D246	REMOVE DOOR AND DOOR HARDWARE, EXISTING FRAME TO REMAIN
D264	REMOVE FLOORING, PREP FLOOR FOR NEW FLOORING REF FLOOR FINISH PLANS
D268	EXISTING CARPET ON WALLS TO REMAIN
D269	EXISTING ELECTRICAL, GUTTER, AND DOWNSPOUT TO REMAIN
D274	SALVAGE EXISTING CABINETS FOR REINSTALLATION IN THE SAME FOOTPRINT LOCATION ON THE NEW FLOOR ELEVATION
D275	RELOCATE WIRING AROUND NEW DOOR OPENING AND WITHIN NEW FLOORING WALL
D281	EXISTING FLOORING TO REMAIN
D298	SALVAGE TRACK AND FIELD RECORDS FOR REINSTALLATION BY SCHOOL. ALTERNATE FOR CONTRACTOR TO REINSTALL RECORDS ABOVE NEW DOORS BETWEEN ARCADE AND CAFETERIA
D601	REMOVE EXISTING ACT CEILING



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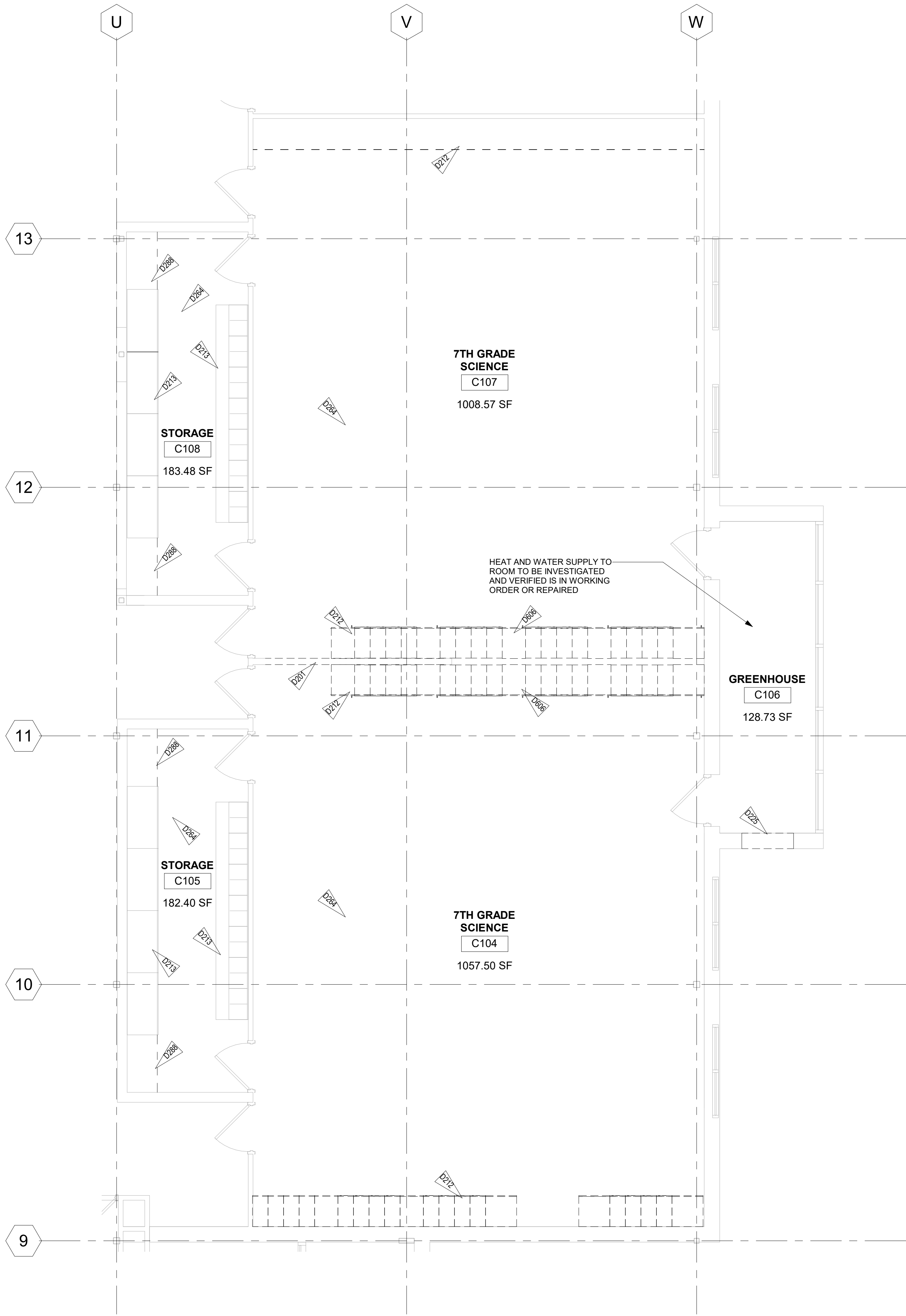
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95% CD - 03/30/20
CD's - 04/07/20

Sheet Title:
Demo
Main Level
Plan

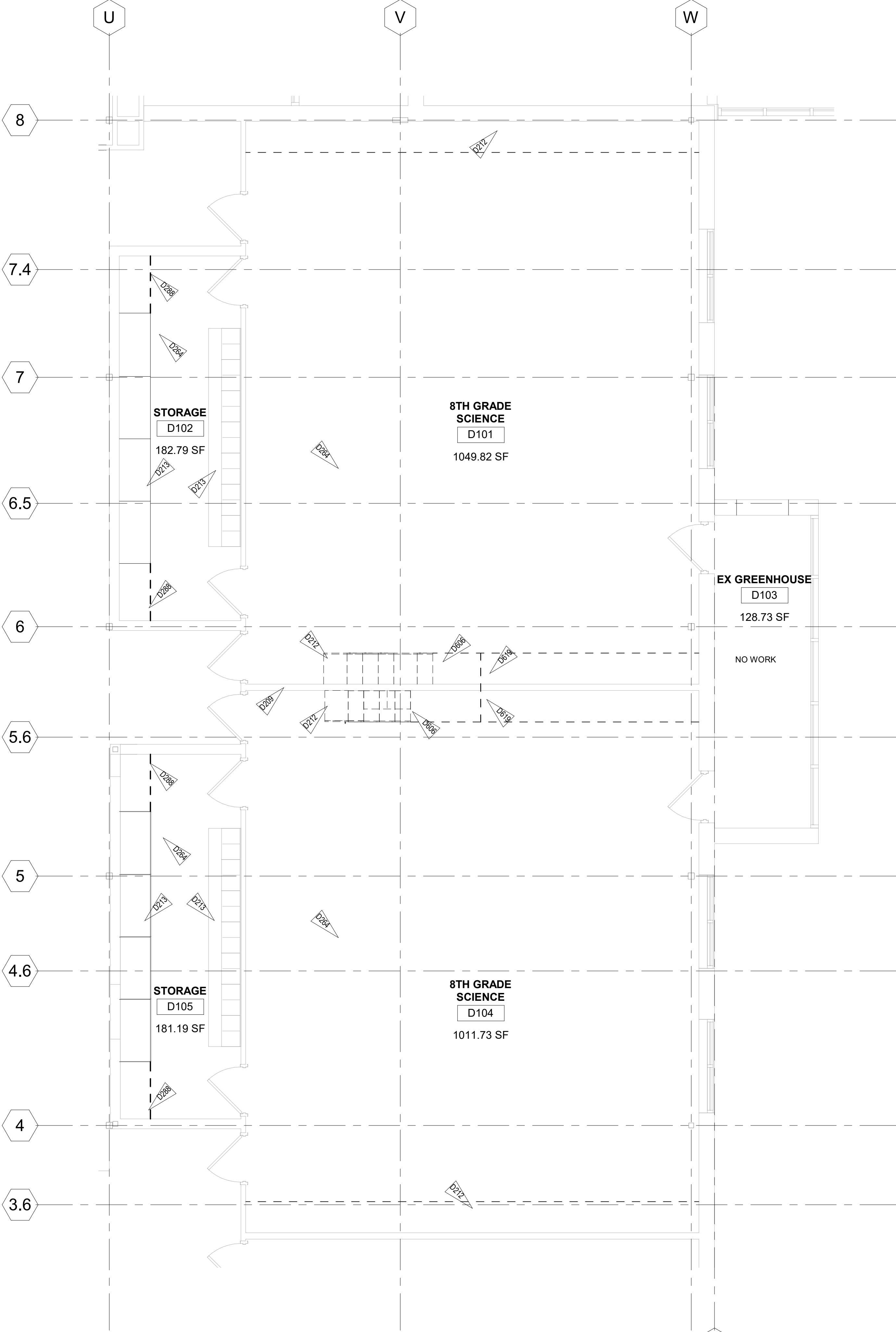
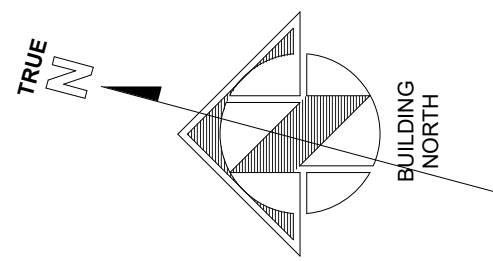
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Sheet No:
D2.01



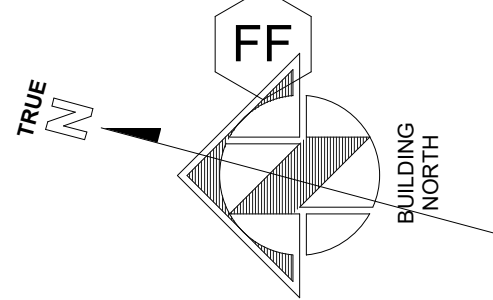
1 DEMO ARCH PLAN - SCIENCE RM - 7TH GRADE

D2.02 1/4" = 1'-0"



2 DEMO ARCH PLAN - SCIENCE RM - 8TH GRADE

D2.02 1/4" = 1'-0"



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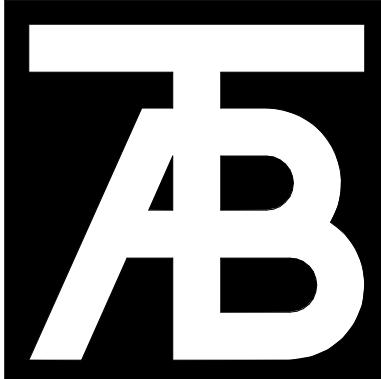
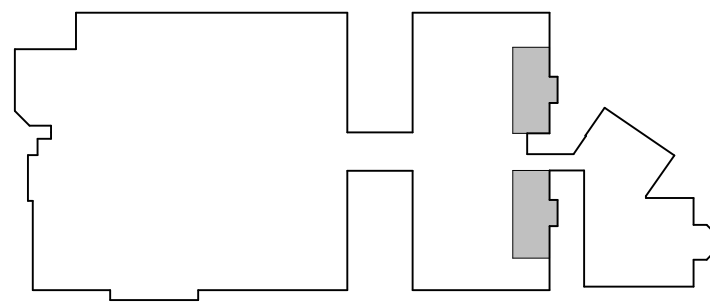
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- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING SLAB AREA TO BE DEMO'D FOR NEW PLUMBING AND/OR SANITARY LINES

Keynote Legend	
Key Value	Keynote Text
D201	REMOVE EXISTING WALL
D209	EXISTING WALL TO REMAIN
D212	REMOVE EXISTING CASEWORK
D213	EXISTING CASEWORK TO REMAIN
D225	REMOVE PORTION OF EXISTING WALL FOR NEW DOOR
D264	REMOVE FLOORING, PREP FLOOR FOR NEW FLOORING REF FLOOR FINISH PLANS
D288	REMOVE EXISTING COUNTERTOP AND SHELVE
D606	REMOVE EXISTING SOFFIT
D619	EXISTING SOFFIT TO REMAIN

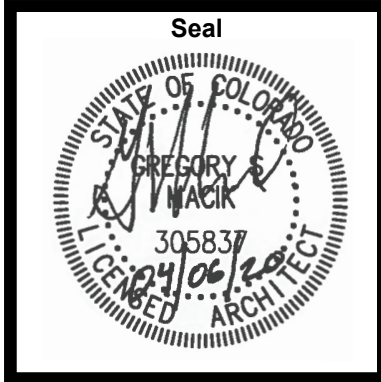
KEYNOTE PLAN



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Steamboat Springs, CO 80487

Revisions:		
No	Description	Date

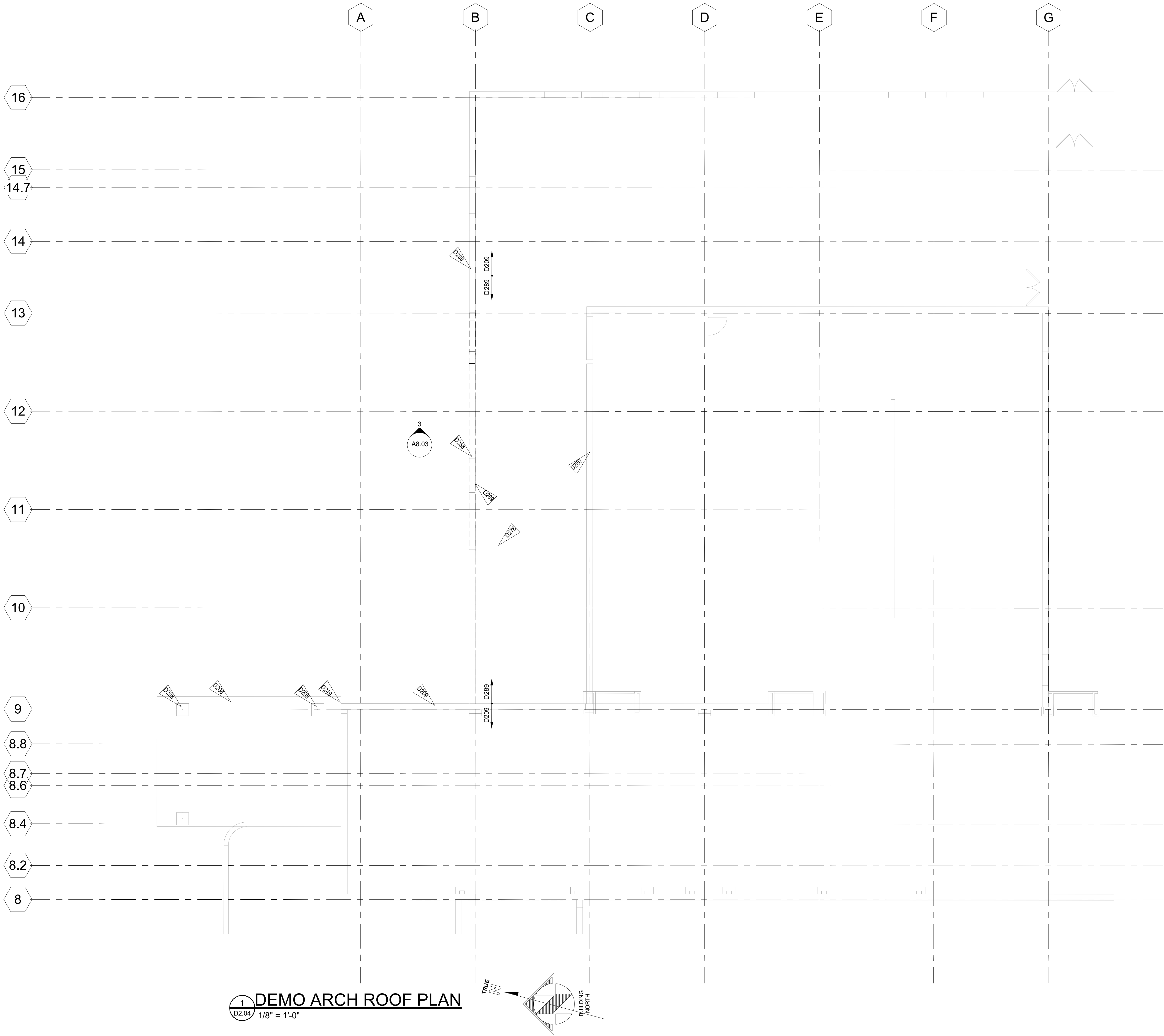
Issue Dates:
Initial SD - 12/20/19
SD - 01/14/20
DD - 02/21/20
95% CD - 03/30/20
CD's - 04/07/20

Sheet Title:
Demo Science Classrooms Plan

Project No:
1935.03

Sheet No:
D2.02





NOTES:

GENERAL DEMOLITION NOTES:

- DEMOLITION GENERAL NOTES APPLY TO ALL DEMOLITION SHEETS.
- COORDINATE DEMOLITION AND PHASING EFFORTS WITH ARCHITECT AND OWNER'S REPRESENTATIVES. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS AND TO PROVIDE BUILDING USER'S SAFETY. EXCESSIVE NOISE AND VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH OWNER'S REPRESENTATION.
- COORDINATE DEMOLITION WITH OWNER'S REPRESENTATIVE AND ASBESTOS ABATEMENT. PRIMARY ASBESTOS ABATEMENT DEMOLITION WILL INCLUDE BUT IS NOT LIMITED TO THE REMOVAL OF CEILINGS, LIGHTING, CASEWORK, DOORS, WALL FINISHES, INTERIOR WALL FRAMING, ASBESTOS FLOOR TILE AND MASTIC REMOVAL.
- COORDINATE DISRUPTION OF UTILITY SERVICES WITH OWNER AND AS SATISFIED.
- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS AND NOTIFY ARCHITECT OF DISCREPANCIES.
- ITEMS NOT SHOWN DASHED ARE TO REMAIN. ALL DASHED ITEMS REPRESENT ITEMS TO BE REMOVED. COORDINATE REMOVAL WITH NEW ITEMS SHOWN IN DRAWINGS.
- REMOVE EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, ETC. IN THEIR ENTIRETY AND AS REQUIRED TO EXECUTE DEMOLITION AND CONSTRUCTION WORK AS DESCRIBED ON THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTIONS FOR EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REFER TO MEP AND STRUCTURAL DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED, CAPPED OR ALTERED.
- IF NEW CONSTRUCTION IS SHOWN ON OTHER DRAWINGS IT IS ASSUMED DEMOLITION IS REQUIRED IF EXISTING WALLS, FINISHES AND ETC. ARE CURRENTLY PRESENT.
- CONTRACTOR TO COORDINATE REMOVAL OF EXISTING ITEMS WITH INSTALLATIONS OF NEW ITEMS.
- COORDINATE NEW STRUCTURAL ITEMS WITH REMOVAL OF EXISTING ITEMS. REFER TO STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL WORK TO EXISTING STRUCTURE.
- IT IS ASSUMED ITEMS NOT TAGGED AS REMOVED OR SALVAGED WILL BE REMOVED IF ATTACHED TO WALL, CABINET, OR OTHER ITEMS. THIS INCLUDES ITEMS ON WALLS, CEILINGS AND FLOORS.
- ALL PLUMBING SHOWN AS DASHED AND NOT SPECIFICALLY NOTED WILL BE REMOVED. ALL PLUMBING NEEDS TO BE MODIFIED TO MATCH NEW LAYOUT. REFER TO PLUMBING PLANS FOR EXTENT OF WORK.
- DRAWINGS ATTEMPT TO SHOW EXISTING CONDITIONS. BUT, ALL EXISTING CONDITIONS MAY NOT BE SHOWN OR VISIBLE ON SITE. CARE MUST BE TAKEN TO ABANDON, TURN-OFF OR OTHERWISE SECURE EXISTING ELEMENTS THAT NEED TO BE REMOVED WITH REMOVED STRUCTURE. WHEN CONFLICTS ARE FOUND CONTACT ARCHITECT FOR DIRECTION.
- REFER TO DEMO REFLECTED CEILING PLANS FOR ADDITIONAL WORK.
- ALL HARDWARE TO BE SALVAGED FOR OWNER OR REUSE FOR NEW CONSTRUCTIONS.
- SALVAGE AND STORE ALL EXISTING FURNISHINGS AND EQUIPMENT IN EXISTING SPACES NOTED FOR RENOVATION.
- NOT ALL ITEMS TAGGED FOR CLARITY. ASSUME REMOVE IF DASHED.

DEMOLITION DEFINITIONS:

- REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF SITE, UNLESS OTHERWISE INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.
- SALVAGE: DETACH ITEMS FROM EXISTING CONDITIONS AND RETURN TO OWNER READY FOR REUSE.
- REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONDITIONS, PREPARE THEM FOR REUSE, TEMPORARY STORE AS REQUIRED AND REINSTALL THEM AS INDICATED.
- EXISTING: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, SALVAGED, OR REMOVED AND REINSTALLED.
- DRAWINGS ATTEMPT TO SHOW EXISTING CONDITIONS. BUT, ALL EXISTING CONDITIONS MAY NOT BE SHOWN OR VISIBLE ON SITE. CARE MUST BE TAKEN TO ABANDON, TURN-OFF OR OTHERWISE SECURE EXISTING ELEMENTS THAT NEED TO BE REMOVED WITH REMOVED STRUCTURE.

DEMOLITION LEGEND

EXISTING CONSTRUCTION TO BE REMOVED

EXISTING CONSTRUCTION TO REMAIN

EXISTING SLAB AREA TO BE DEMO'D FOR NEW PLUMBING AND/OR SANITARY LINES

Keynote Legend

Key	Value	Keynote Text
D208		EXISTING STRUCTURE TO REMAIN, REF STRUCTURE DWGS
D209		EXISTING WALL TO REMAIN
D249		EXISTING GUTTER, DOWNSPOUT, AND HEAT TAPE TO REMAIN
D258		EXISTING WALL FRAMING ABOVE BEAM TO REMAIN
D278		EXISTING EPDM ROOFING AND EXISTING ROOF INSULATION TO REMAIN
D280		EXISTING PARAPET WALL TO REMAIN
D289		REMOVE EXISTING PARAPET CAP

KEYNOTE PLAN

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Seal

Steamboat Springs Middle School

39610 Amethyst Dr

Steamboat Springs, CO 80487

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Demo

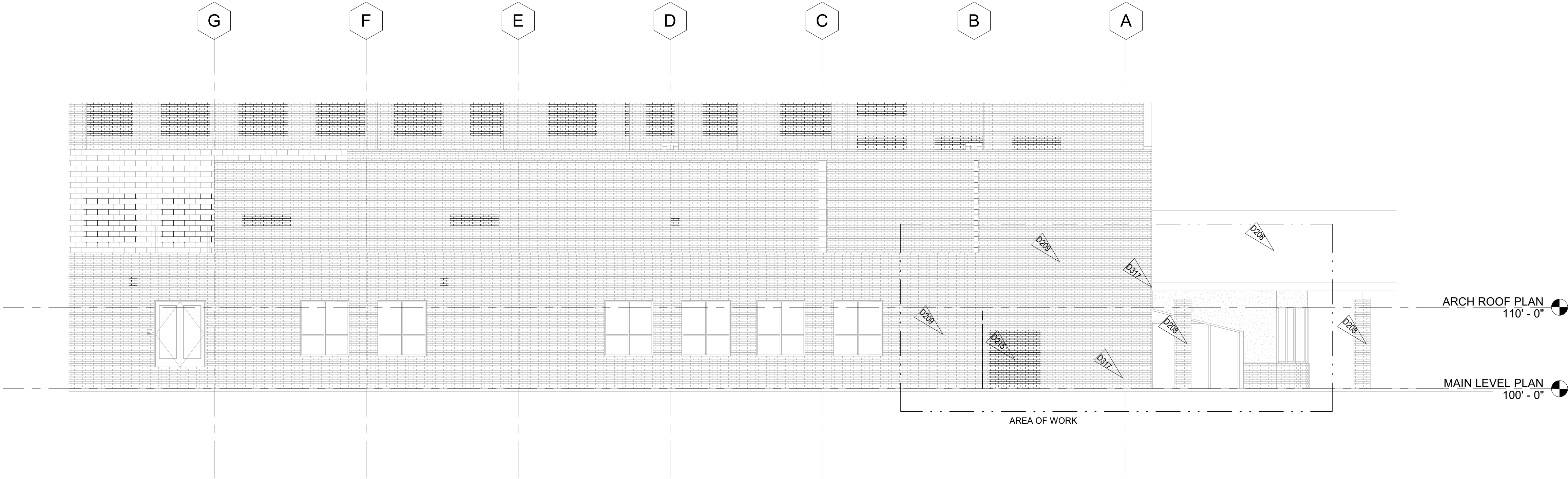
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Project No:

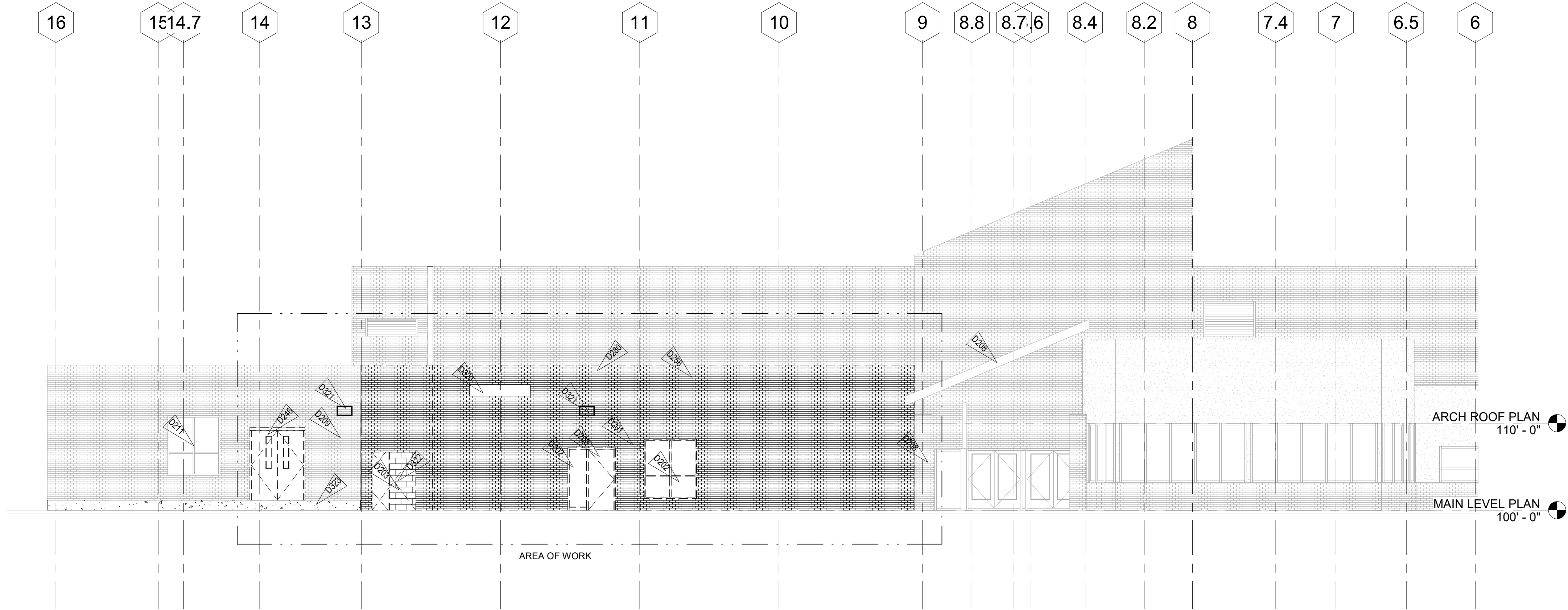
1935.03

Sheet No:

D2.04



1 DEMO EAST ELEVATION
D3.01 1/8" = 1'-0"



2 DEMO NORTH ELEVATION
D3.01 1/8" = 1'-0"

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- COORDINATE DEMOLITION WITH OWNER'S REPRESENTATIVE AND ASBESTOS ABATEMENT. PRIMARY ASBESTOS ABATEMENT DEMOLITION WILL INCLUDE BUT IS NOT LIMITED TO THE REMOVAL OF ALL THE EXISTING FLOOR VINYL TILE, EXISTING CORRIDOR CARPETS, EXISTING DRYWALL TEXTURE AND GWB, AND EXISTING ROOFING MATERIALS.
- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS AND NOTIFY ARCHITECT OF DISCREPANCIES.
- ITEMS NOT SHOWN DASHED ARE TO REMAIN. ALL DASHED ITEMS REPRESENT ITEMS TO BE REMOVED. COORDINATE REMOVAL WITH NEW ITEMS SHOWN IN DRAWINGS.
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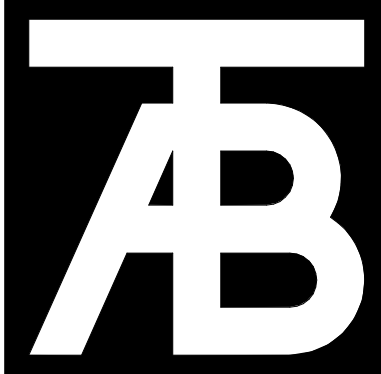
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DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING SLAB AREA TO BE DEMOED FOR NEW PLUMBING AND/OR SANITARY LINES

Keynote Legend	
Key Value	Keynote Text
D201	REMOVE EXISTING WALL
D202	REMOVE EXISTING WINDOW
D203	REMOVE EXISTING DOOR AND DOOR FRAME
D208	EXISTING STRUCTURE TO REMAIN, REF STRUCTURE DWGS
D209	EXISTING WALL TO REMAIN
D211	EXISTING WINDOW TO REMAIN
D215	REMOVE PORTION OF EXISTING WALL
D246	REMOVE DOOR AND DOOR HARDWARE, EXISTING FRAME TO REMAIN
D258	EXISTING WALL FRAMING ABOVE BEAM TO REMAIN
D280	EXISTING PARAPET WALL TO REMAIN
D317	EXISTING ELECTRICAL CONDUIT TO REMAIN
D320	SALVAGE EXISTING SIGN FOR REINSTALLATION ON ADDITION
D321	SALVAGE EXISTING LIGHT
D322	SALVAGE DOOR CARD READER
D323	DEMO CONCRETE LANDING AND STAIRS, REF CIVIL



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Sheet Title:

Demo
Exterior
Elevations

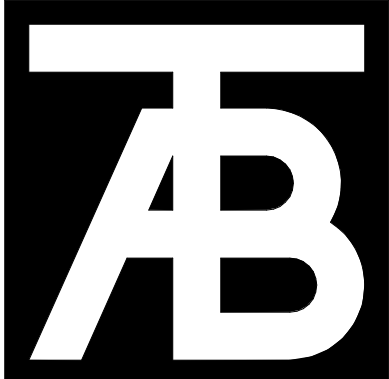
Project No:

1935.03

Sheet No:

D3.01

Keynote Legend	
Key Value	Keynote Text



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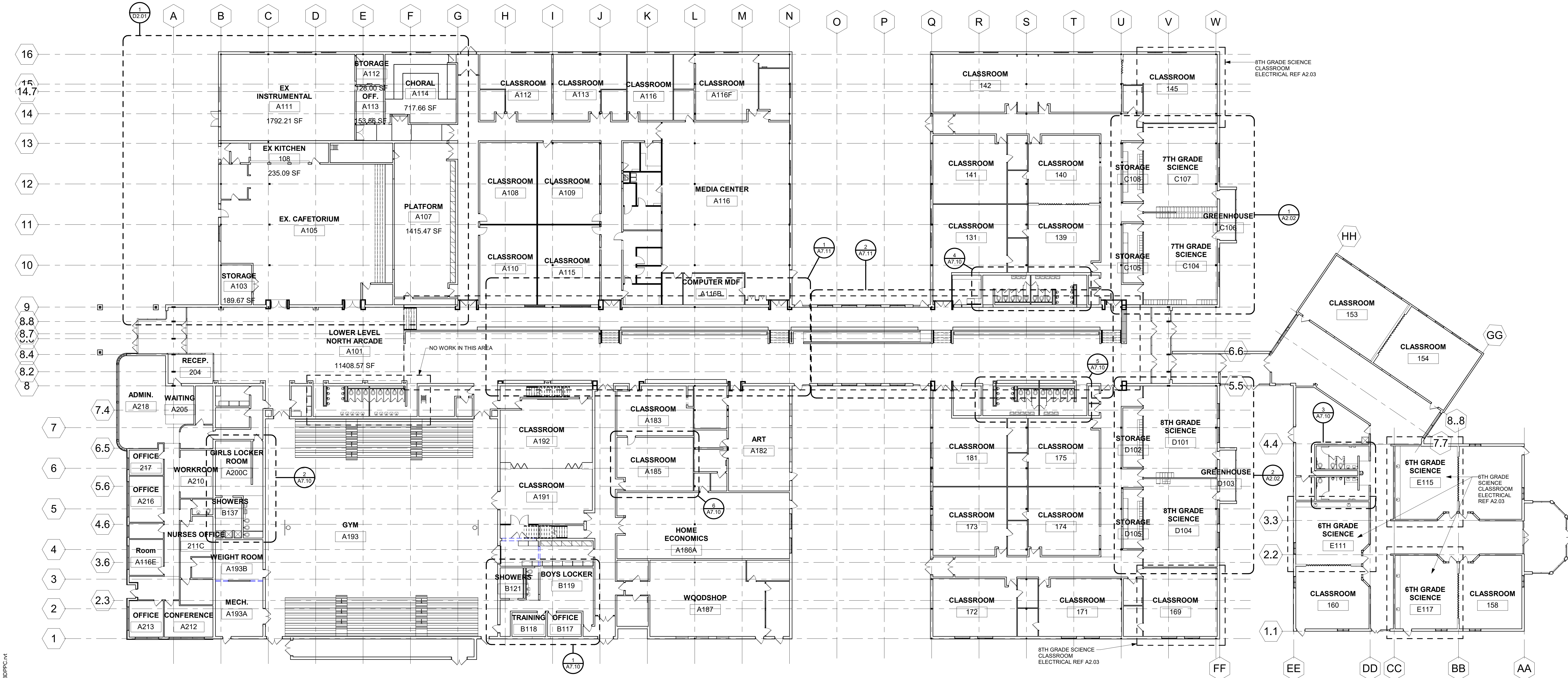
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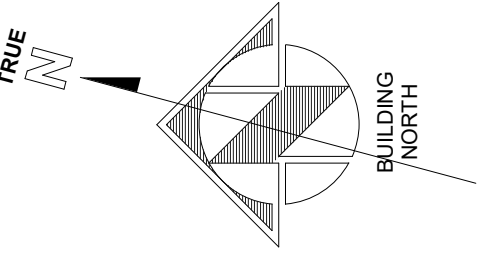
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Building
Floor
Plans**

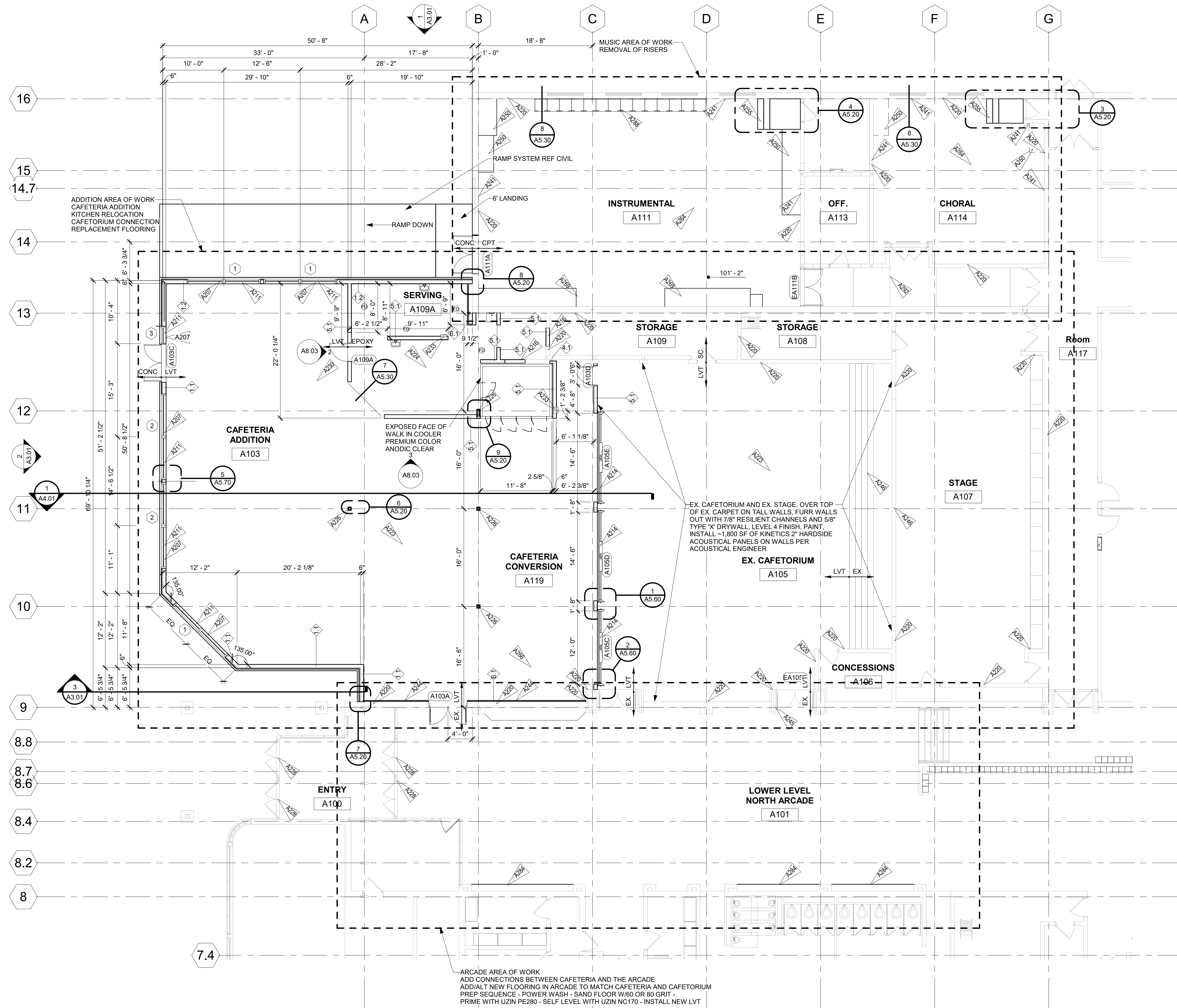
Project No:
1935.03

Sheet No:
A2.00

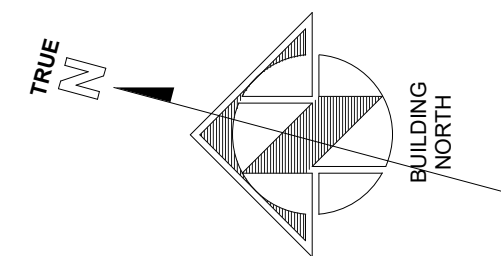


1 OVERALL EXISTING PLAN
A2.00 1/16" = 1'-0"





1 MAIN LEVEL PLAN
A2.01 1/8" = 1'-0"



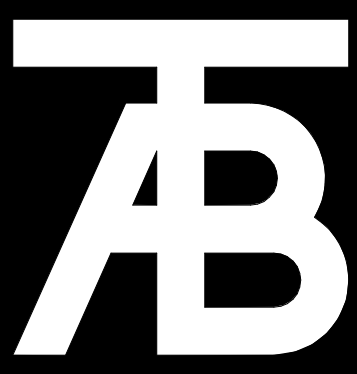
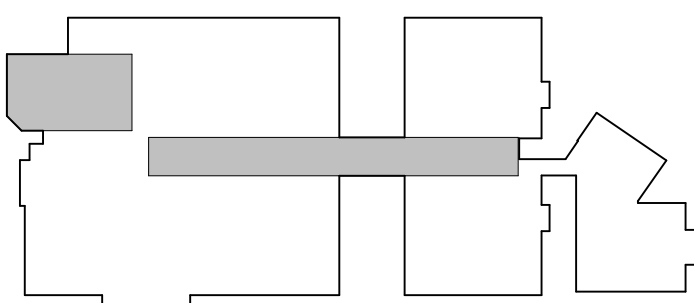
NOTES:

- FLOOR PLAN GENERAL NOTES:**
- PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURER'S GUIDELINES FOR INSTALLATION.
 - PATCH EXISTING FIRE-RATED WALLS, FLOOR CEILINGS, ETC. SO AS TO MAINTAIN THE FIRE-RADIATING. ADD FIRE-SMOKE DAMPERS WHERE NEW DUCTS CROSS. ADD FIRE STOP AT ALL.
 - PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
 - PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
 - COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING.
 - DO NOT SCALE DRAWINGS.
 - ALL SPOT ELEVATIONS SHOWN ON THE FLOOR PLANS OUTSIDE THE BUILDING RELATE TO USGS ELEVATIONS. ALL SPOT ELEVATIONS INSIDE THE BUILDING REFER TO BUILDING REFERENCE ELEVATIONS. NOTIFY ARCHITECT IMMEDIATELY SHOULD CONDITIONS BE FOUND CONTRADICTORY TO THESE DRAWINGS.
 - ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF GYPSUM BOARD, UNLESS OTHERWISE NOTED.
 - ALL FLOOR PLAN DIMENSIONS TO MASONRY ARE NOMINAL DIMENSIONS, UNLESS NOTED AS ACTUAL.
 - "TB" NEW CORK TACKBOARDS OR "MB" NEW MARKERBOARDS
 - ALL SIGNAGE BY OWNER. EXIT DOOR NUMBERS PER DOOR SIGNAGE SHEET AT ALL EXIT DOORS.

Keynote Legend

Key Value	Keynote Text
A207	INSTALL NEW ROLLER BLINDS ON WINDOW OR DOOR GLAZING PER SPEC
A211	NEW WINDOW SOLID SURFACE SILLS
A214	INSTALL NEW SECTIONAL GARAGE DOOR REF DOOR SCHEDULE
A216	INFILL WALL WHERE EXISTING WINDOWS AND DOORS ARE TO BE REMOVED, REF WALL TAG
A220	EXISTING WALL TO REMAIN
A223	INSTALL NEW LVT FLOORING
A224	INSTALL NEW EPOXY FLOORING
A226	INSTALL DRYWALL WRAP ON STRUCT COLUMN, SIM TO A5.20
A228	EXISTING WINDOW OR DOOR TO REMAIN
A230	NEW CEILING MOUNTED DROP DOWN ELECTRICAL POWER OUTLET ON RETRACTABLE CORD, REF ELEC DRAWINGS
A233	INSTALL NEW SEMI RECESSED FIRE EXTINGUISHER CABINET, NO MORE THAN 75' APART, FULLY RECESSED CABINET IN GYM
A241	PATCH/INSTALL NEW DRYWALL ON WALLS WHERE RISERS/CABINETS WERE REMOVED
A244	INSTALL NEW WALL FURRING, REF WALL TYPE OR FRAMING PLAN
A245	REPAIR/REPLACE EXISTING DOOR HOLD OPEN
A246	NO WORK IN AREA
A250	REINSTALL SALVAGED CABINETS
A255	NEW STAIRS TO BE INSTALLED WITH GUARDRAILS AND HANDRAILS
A264	INSTALL NEW CARPET
A266	FLUSH OUT FLOOR WITH EXISTING ADJACENT SPACES, IF REQ
A269	EXISTING CABINETS TO REMAIN
A284	PATCH/STAIN/POLISH CONCRETE TO MATCH EXISTING. NEW FFE SEATING
A288	INSTALL NEW BASE CABINETS
A292	EXISTING CARPET TO REMAIN

KEYNOTE PLAN



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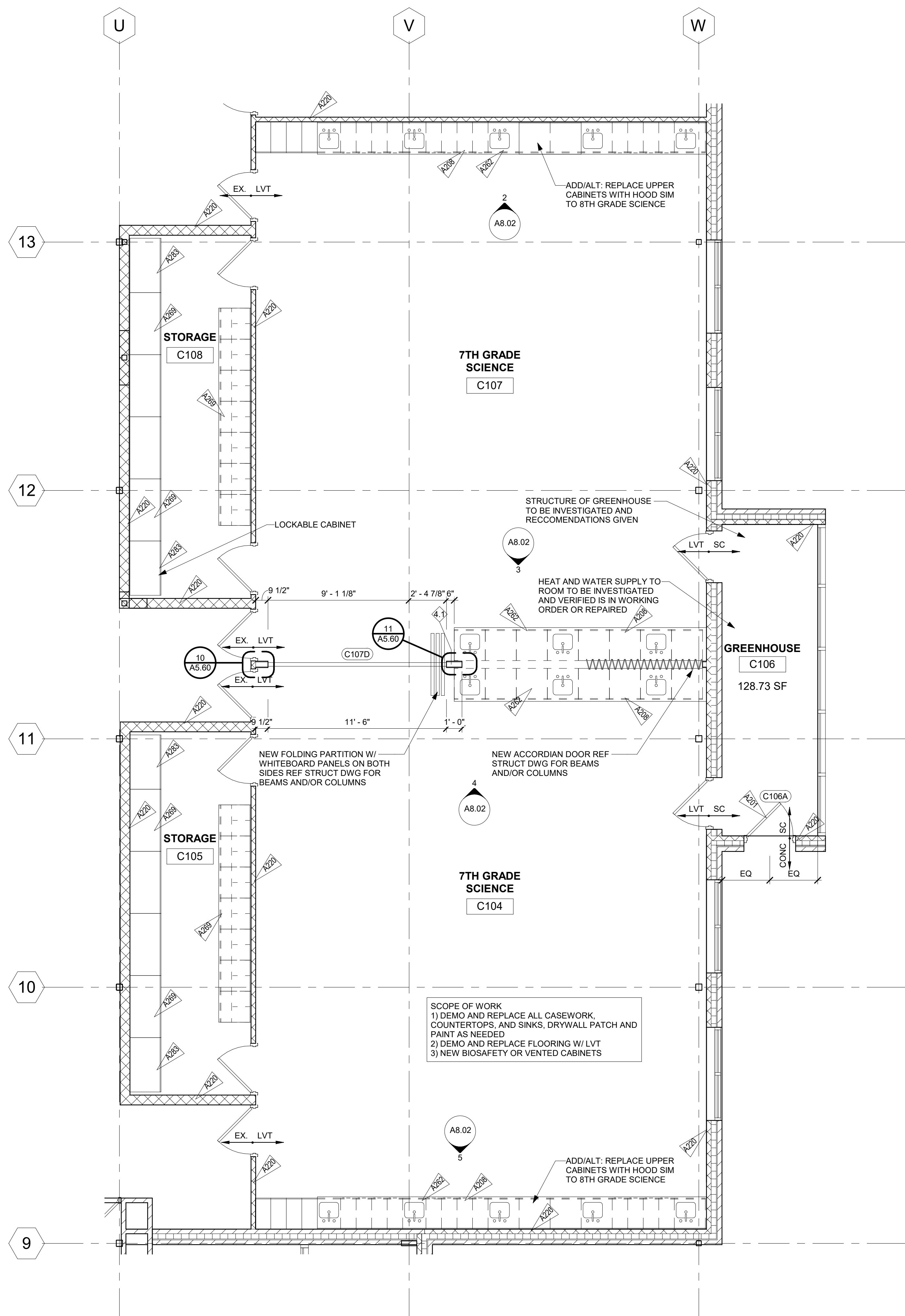
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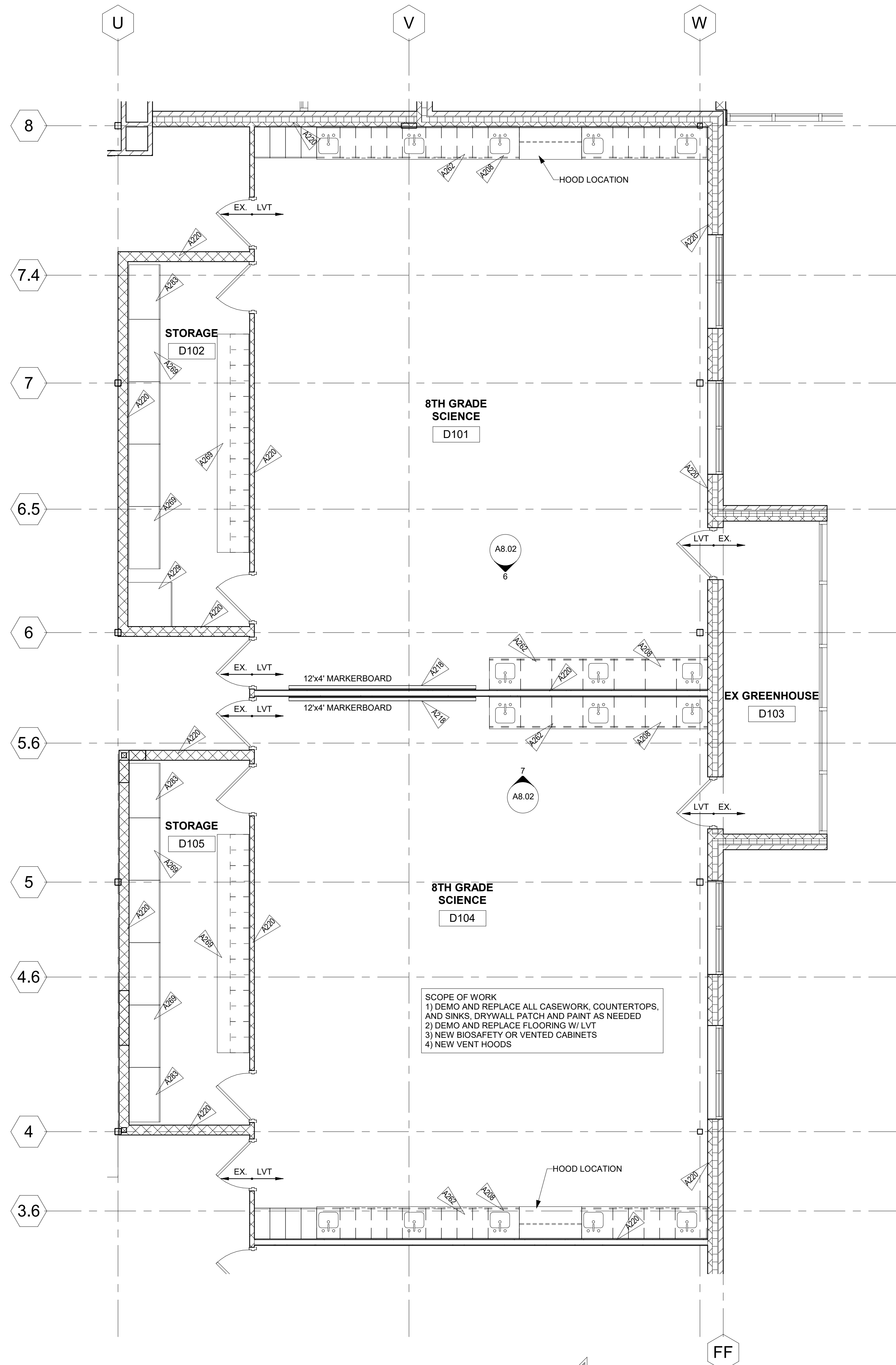
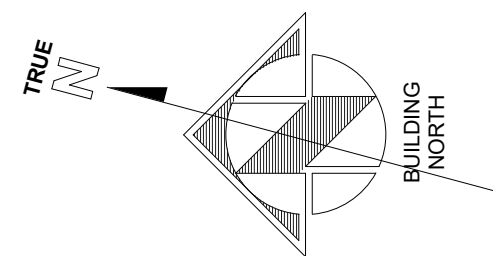
Sheet Title:
Main Level Floor Plan

Project No:
1935.03

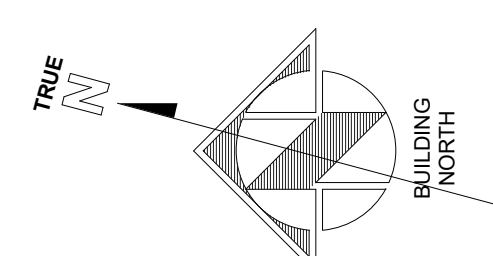
Sheet No:
A2.01



1 7th GRADE SCIENCE ROOMS
A2.02 1/4" = 1'-0"



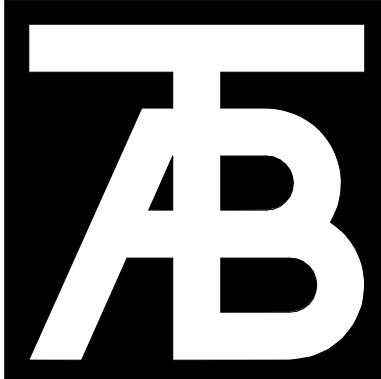
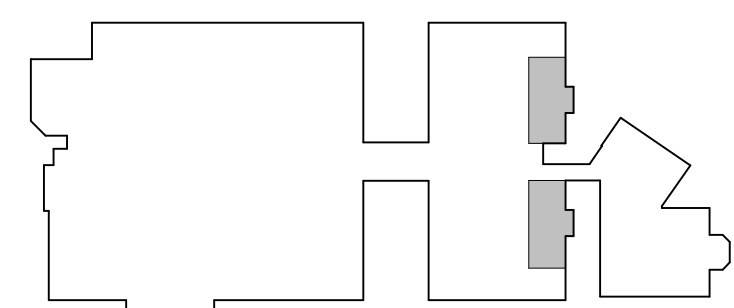
2 8TH GRADE SCIENCE ROOMS
A2.02 1/4" = 1'-0"



- NOTES:**
- FLOOR PLAN GENERAL NOTES:**
1. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURER'S GUIDELINES FOR INSTALLATION.
 2. PATCH EXISTING FIRE-RATED WALLS, FLOOR CEILINGS, ETC. SO AS TO MAINTAIN THE FIRE-RADIATING. ADD FIRE-SMOKE DAMPERS WHERE NEW DUCTS CROSS. ADD FIRE STOP AT ALL.
 3. PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
 4. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
 5. COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING.
 6. DO NOT SCALE DRAWINGS.
 7. ALL SPOT ELEVATIONS SHOWN ON THE FLOOR PLANS OUTSIDE THE BUILDING RELATE TO USGS ELEVATIONS. ALL SPOT ELEVATIONS INSIDE THE BUILDING REFER TO BUILDING REFERENCE ELEVATIONS. NOTIFY ARCHITECT IMMEDIATELY SHOULD CONDITIONS BE FOUND CONTRADICTORY TO THESE DRAWINGS.
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 11. "TB" NEW CORK TACKBOARDS OR "MB" NEW MARKERBOARDS
 12. ALL SIGNAGE BY OWNER. EXIT DOOR NUMBERS PER DOOR SIGNAGE SHEET AT ALL EXIT DOORS.

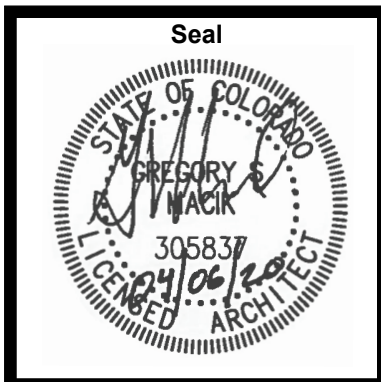
Keynote Legend	
Key Value	Keynote Text
A201	INSTALL NEW DOOR, REF DOOR DETAILS
A208	INSTALL NEW CASEWORK WITH UPPER/LOWER CABINETS, SINKS REF INTERIOR ELEVATIONS
A218	INSTALL NEW TACKBOARDS WITH PROJECTABLE/MAGNETIC WHITEBOARD ON TEACHING WALL. REF DETAIL 2/AS.20 AND SEE PLANS FOR SIZES
A220	EXISTING WALL TO REMAIN
A229	NEW FLAME/CHEM STORAGE CABINET SHW340X60T
A262	NEW EPOXY COUNTERTOPS WITH INTEGRAL EPOXY SINKS
A269	EXISTING CABINETS TO REMAIN
A283	INSTALL NEW FULL-HEIGHT CABINET TO MATCH ADJACENT

KEYNOTE PLAN



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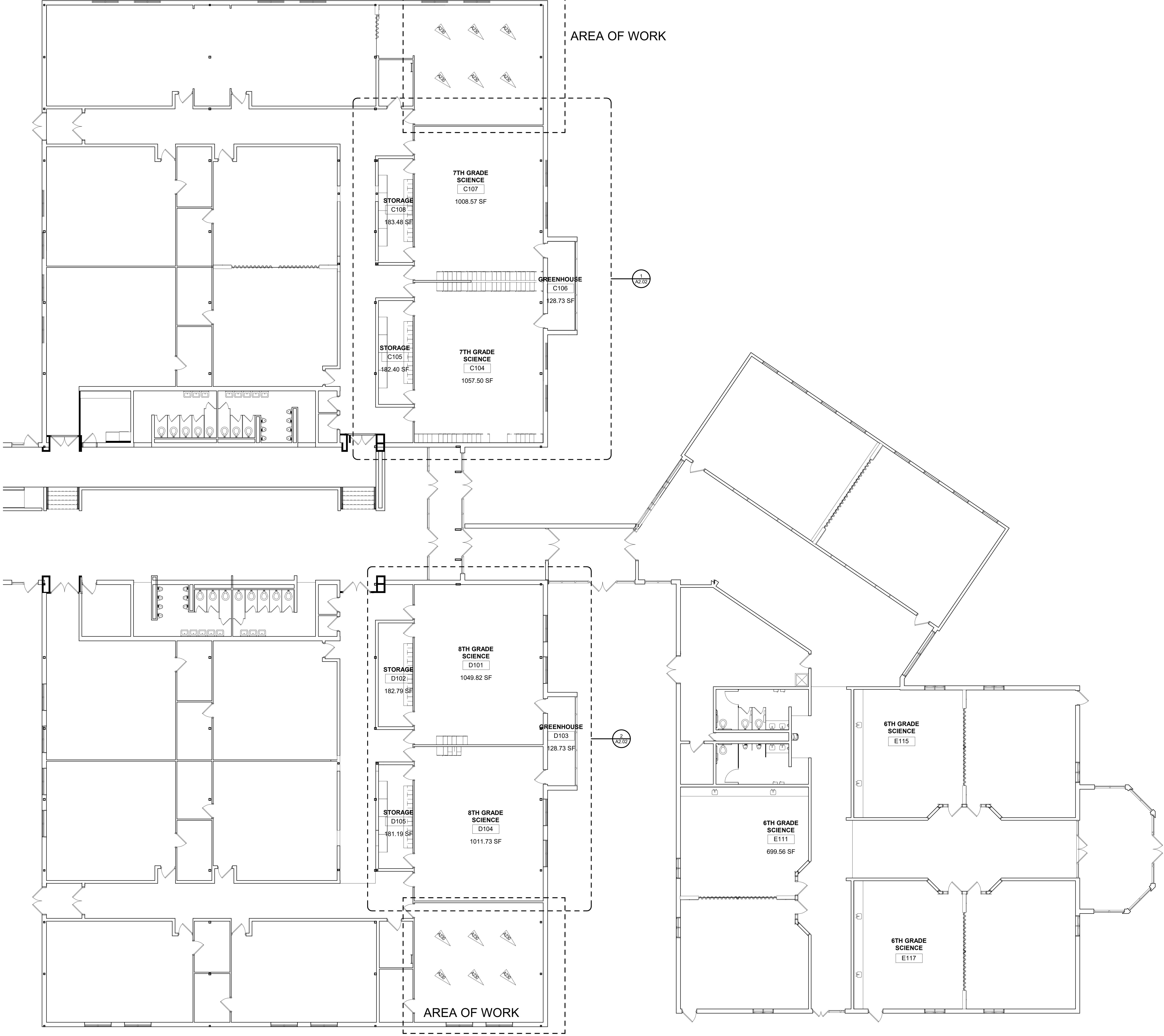
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Sheet Title:
Science Classroom Floor Plans

Project No:
1935.03

Sheet No:
A2.02

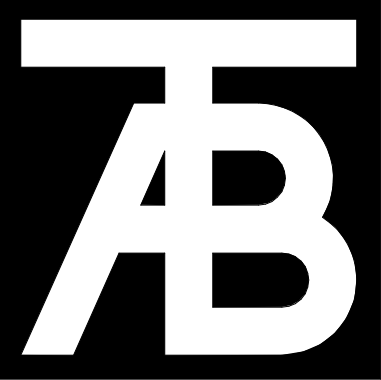


NOTES:

- FLOOR PLAN GENERAL NOTES:**
1. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURER'S GUIDELINES FOR INSTALLATION.
 2. PATCH EXISTING FIRE-RATED WALLS, FLOOR CEILINGS, ETC. SO AS TO MAINTAIN THE FIRE-RADIATING. ADD FIRE-SMOKE DAMPERS WHERE NEW DUCTS CROSS. ADD FIRE STOP AT ALL.
 3. PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
 4. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
 5. COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING.
 6. DO NOT SCALE DRAWINGS.
 7. ALL SPOT ELEVATIONS SHOWN ON THE FLOOR PLANS OUTSIDE THE BUILDING RELATE TO USGS ELEVATIONS. ALL SPOT ELEVATIONS INSIDE THE BUILDING REFER TO BUILDING REFERENCE ELEVATIONS. NOTIFY ARCHITECT IMMEDIATELY SHOULD CONDITIONS BE FOUND CONTRADICTORY TO THESE DRAWINGS.
 8. ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
 9. ALL DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF GYPSUM BOARD, UNLESS OTHERWISE NOTED.
 10. ALL FLOOR PLAN DIMENSIONS TO MASONRY ARE NOMINAL DIMENSIONS, UNLESS NOTED AS ACTUAL.
 11. "TB" NEW CORK TACKBOARDS OR "MB" NEW MARKERBOARDS
 12. ALL SIGNAGE BY OWNER, EXIT DOOR NUMBERS PER DOOR SIGNAGE SHEET AT ALL EXIT DOORS.

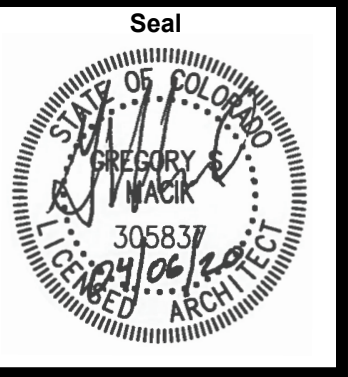
Keynote Legend

Key Value	Keynote Text
A230	NEW CEILING MOUNTED DROP DOWN ELECTRICAL POWER OUTLET ON RETRACTABLE CORD, REF ELEC DRAWINGS



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Steamboat Springs Middle School
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Revisions:

No	Description	Date

Issue Dates:

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95% CD - 03/30/20
CD's - 04/07/20

Sheet Title:

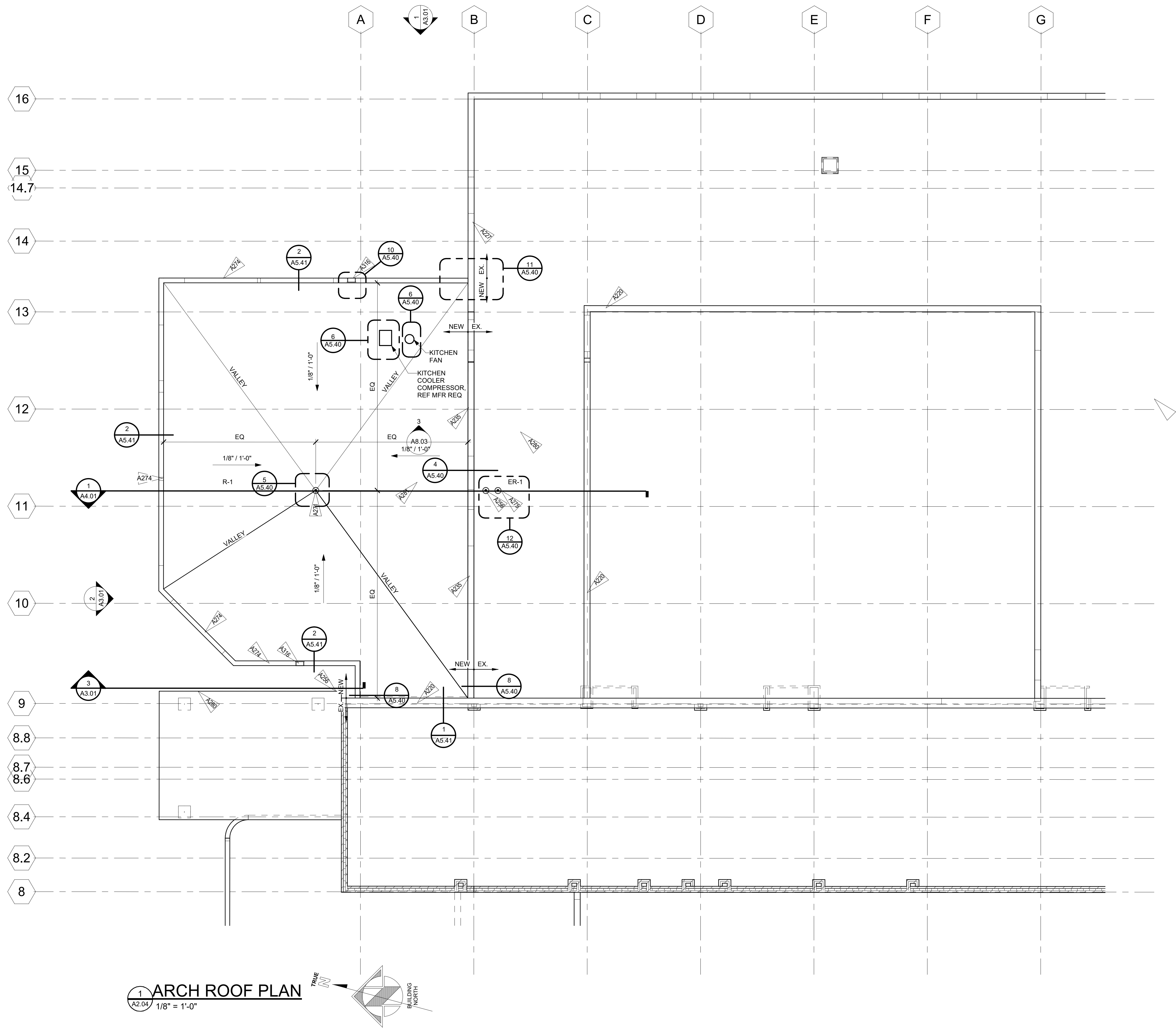
6th Grade Science Rooms

Project No:

1935.03

Sheet No:

A2.03



NOTES:

ROOF FINISH LEGEND

R-1 90 MIL BLACK EPDM

METAL FLASHING PAINTED TO MATCH EXISTING

NOTES:

1. HATCHED AREAS INDICATE OVERBUILT ROOF & CRICKETS, RE: STRUCTURAL
2. ALL DRAINS TO RECEIVE HEAT TAPE FOR ENTIRE LENGTH, RE: DIAGRAM ON ELECTRICAL PLANS

ROOF PLAN GENERAL NOTES:

1. ALL EXISTING ROOFING IN DEMO AREAS TO BE REMOVED AND REPLACED WITH FULLY ADHERED 90 MIL EPDM ON 1/2" PROTECTION BOARD ON R-30 MIN CONTINUOUS INSULATION.
2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.

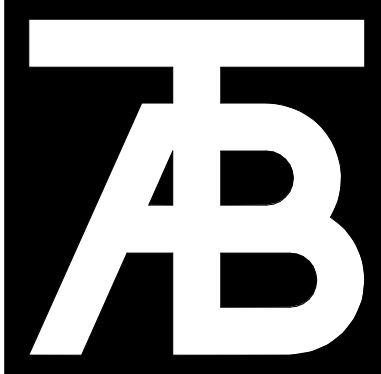
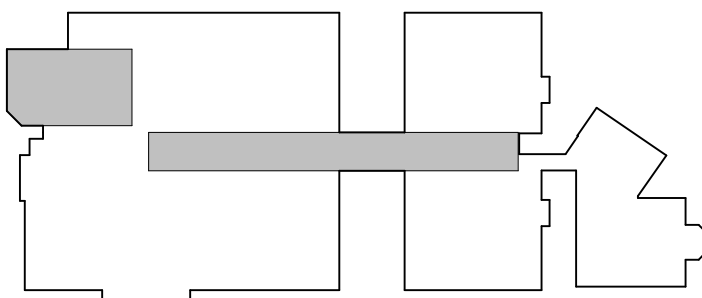
EXTERIOR MATERIAL LEGEND:

- EX-1 EXISTING BRICK
- X-1 NEW BRICK TO MATCH EXISTING
- X-2 NEW STUCCO TO MATCH EXISTING
- ER-1 EXISTING EPDM
- R-1 NEW 90 MIL FULLY ADHERED REINFORCED EPDM ROOF ON SINGLE LAYER OF DENSDECK ON RIGID INSULATION ON ONE LAYER OF DENSDECK INSTALLED ON TOP OF MTL ROOF DECK
- CJ STUCCO CONTROL JOINT

Keynote Legend

Key Value	Keynote Text
A220	EXISTING WALL TO REMAIN
A227	EXISTING ROOF PARAPET TO REMAIN
A235	INSTALL NEW EPDM ROOFING UP, OVER, AND DOWN PARAPET 6" MIN, INSTALL NEW PARAPET CAP
A256	EXISTING ROOF DRAIN OR GUTTER AND DOWNSPOUT TO REMAIN
A271	NEW ROOF DRAIN, REF MEP DWGS
A274	INSTALL NEW PARAPET
A275	INSTALL NEW ROOF OVERFLOW DRAIN, REF MEP DWGS
A280	EXISTING ROOF TO REMAIN
A281	INSTALL NEW 90 MIL REINFORCED EPDM ROOF WITH TAPERED R-35 MIN RIGID INSULATION
A316	LAMBS TOUNGE ROOF DRAIN AND SCUPPER, REF DETAIL 10/A5.40

KEYNOTE PLAN



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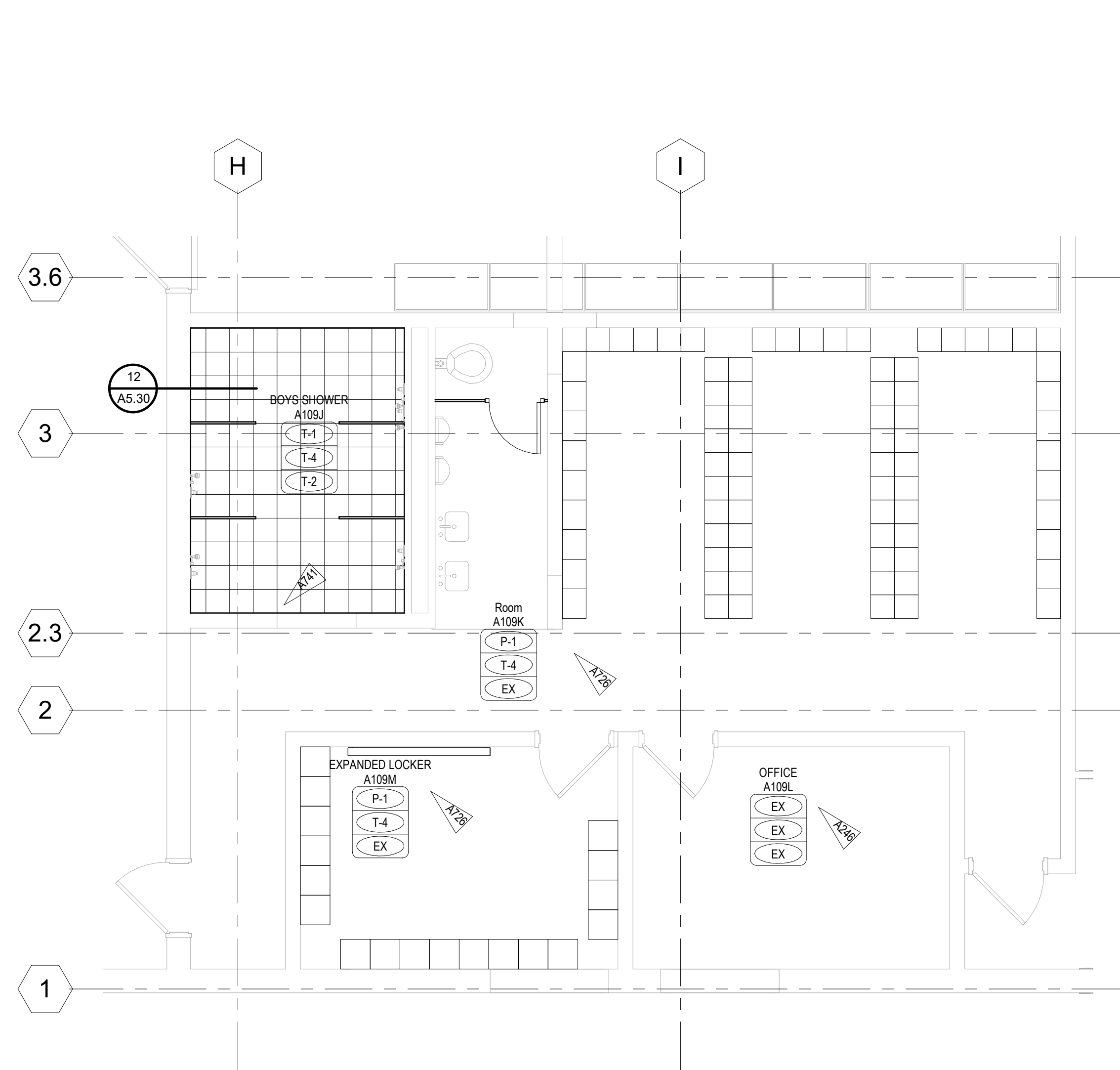
Roof Plan

Project No:

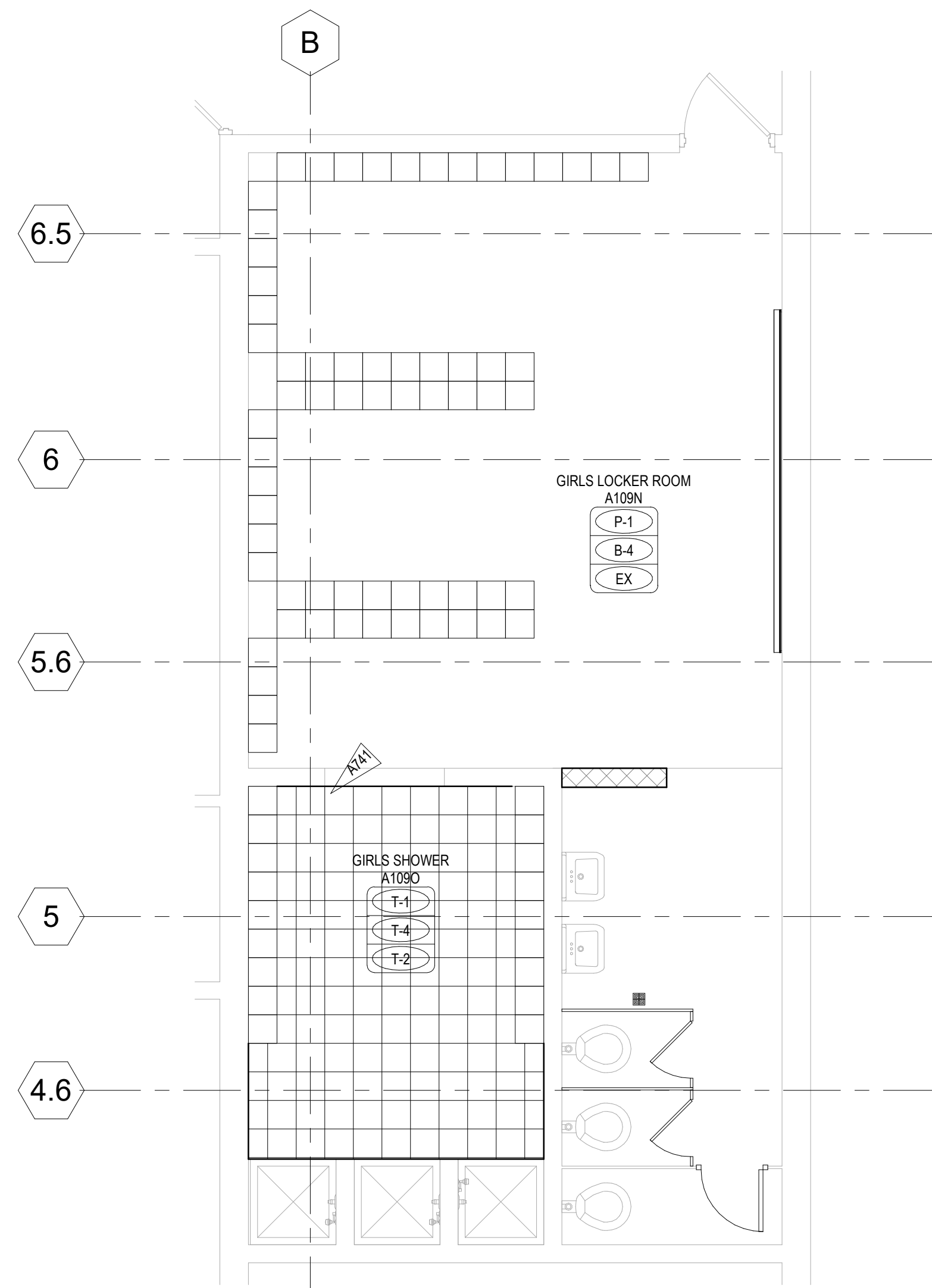
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Sheet No:

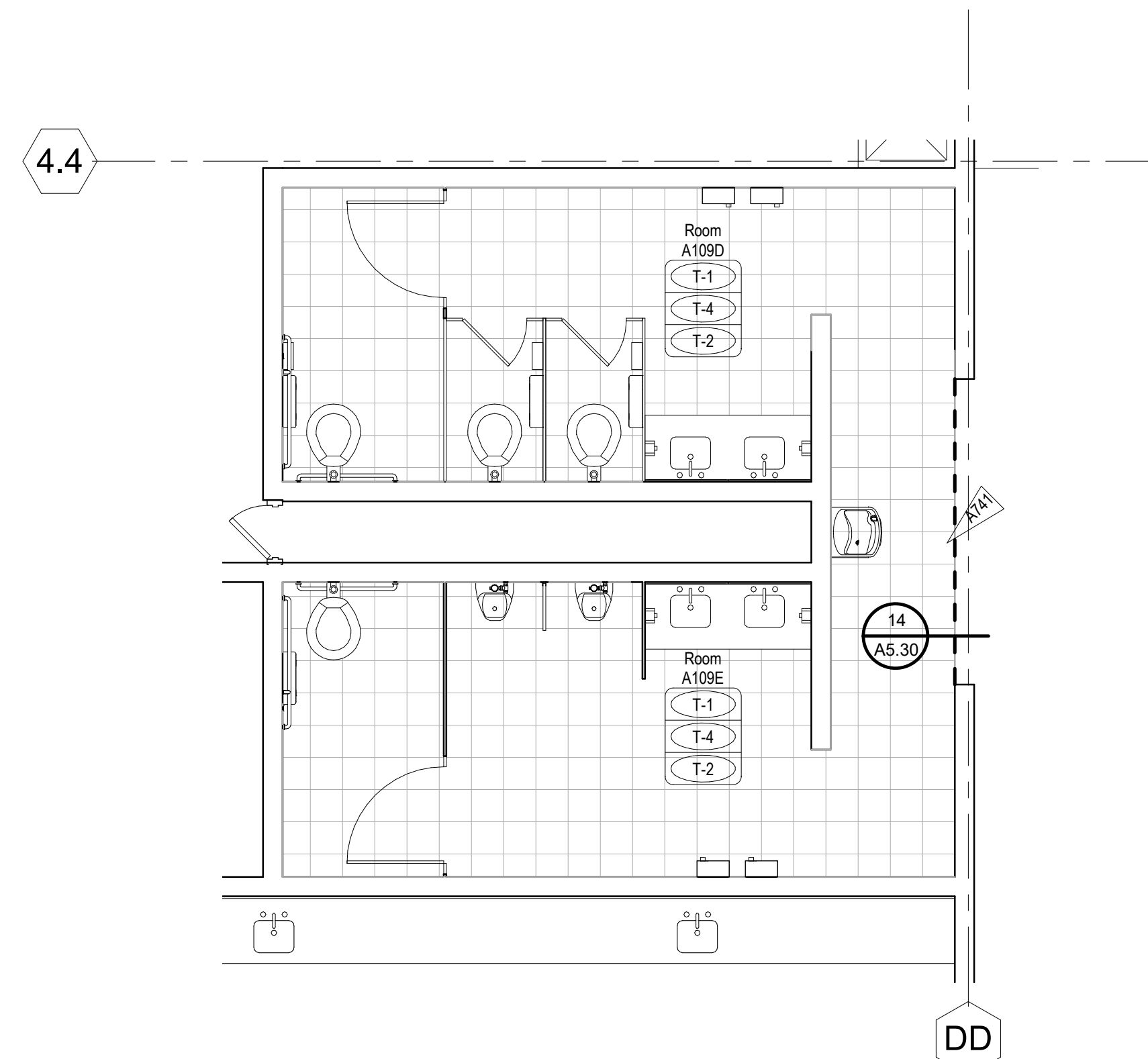
A2.04



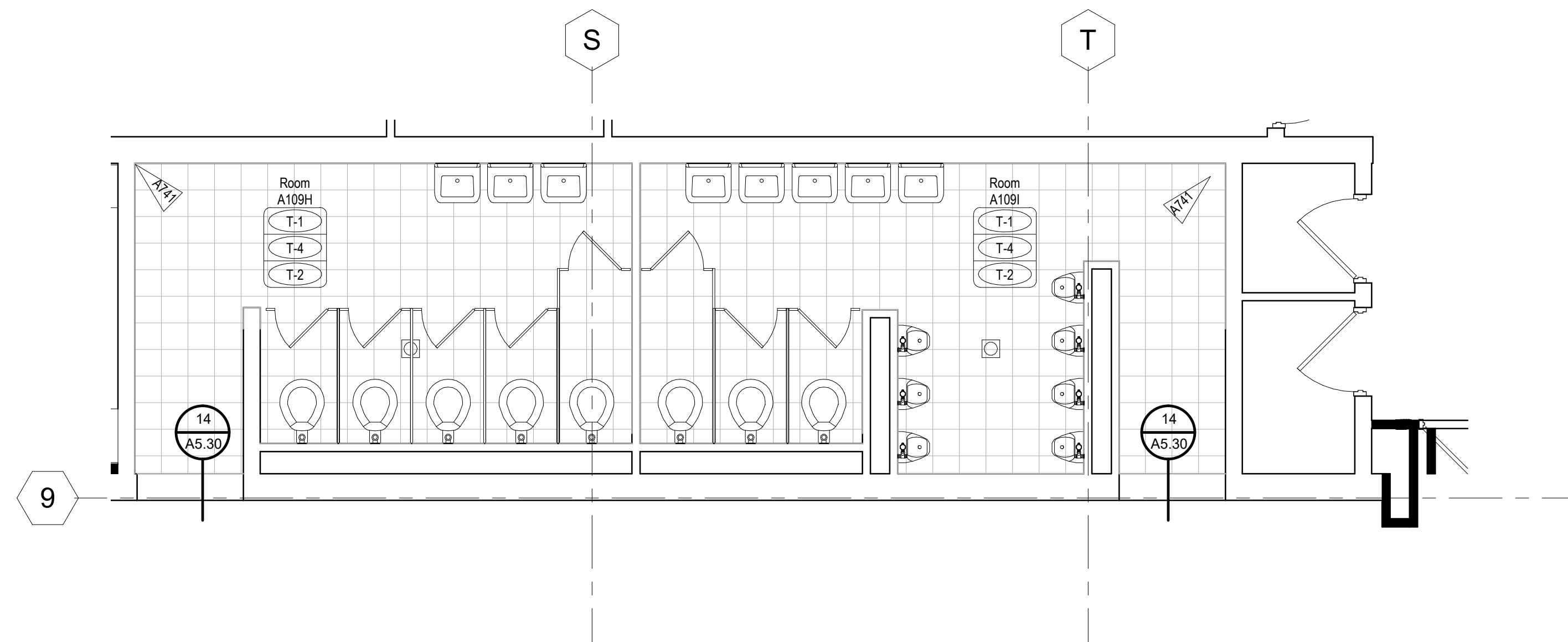
6 BOYS LOCKER B119 FLOOR FINISH
A2.06 1/4" = 1'-0"



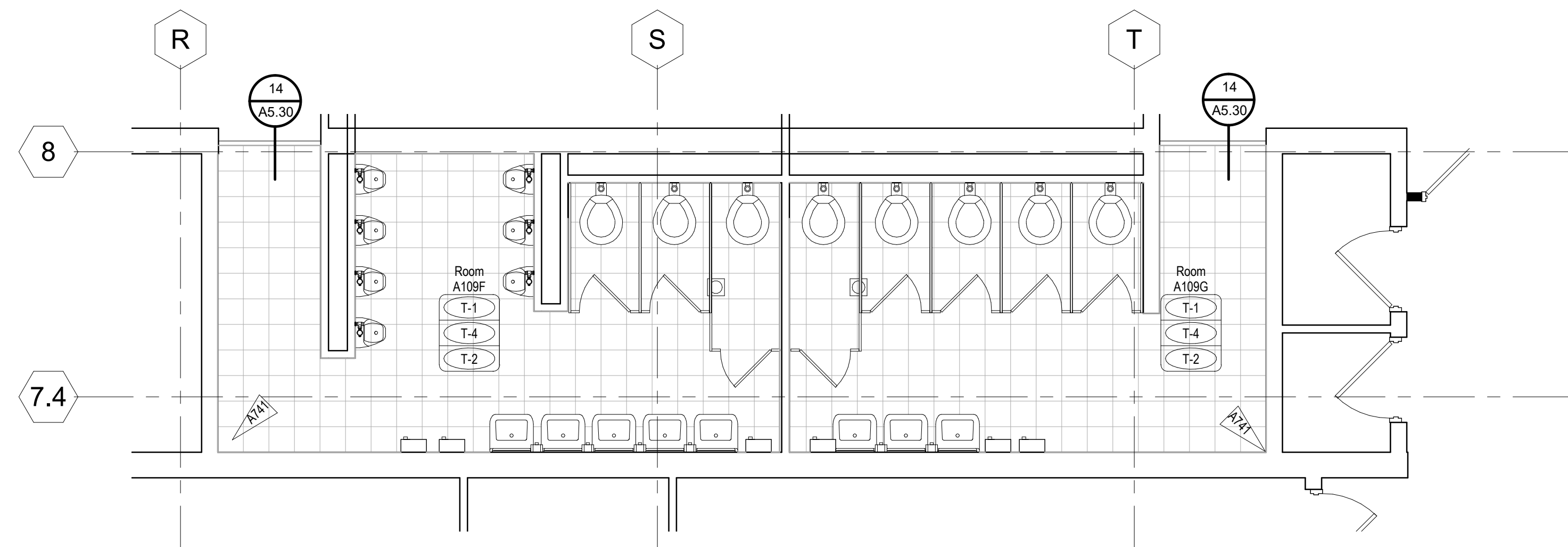
8 GIRLS LOCKER A200C FLOOR FINISH
A2.06 1/4" = 1'-0"



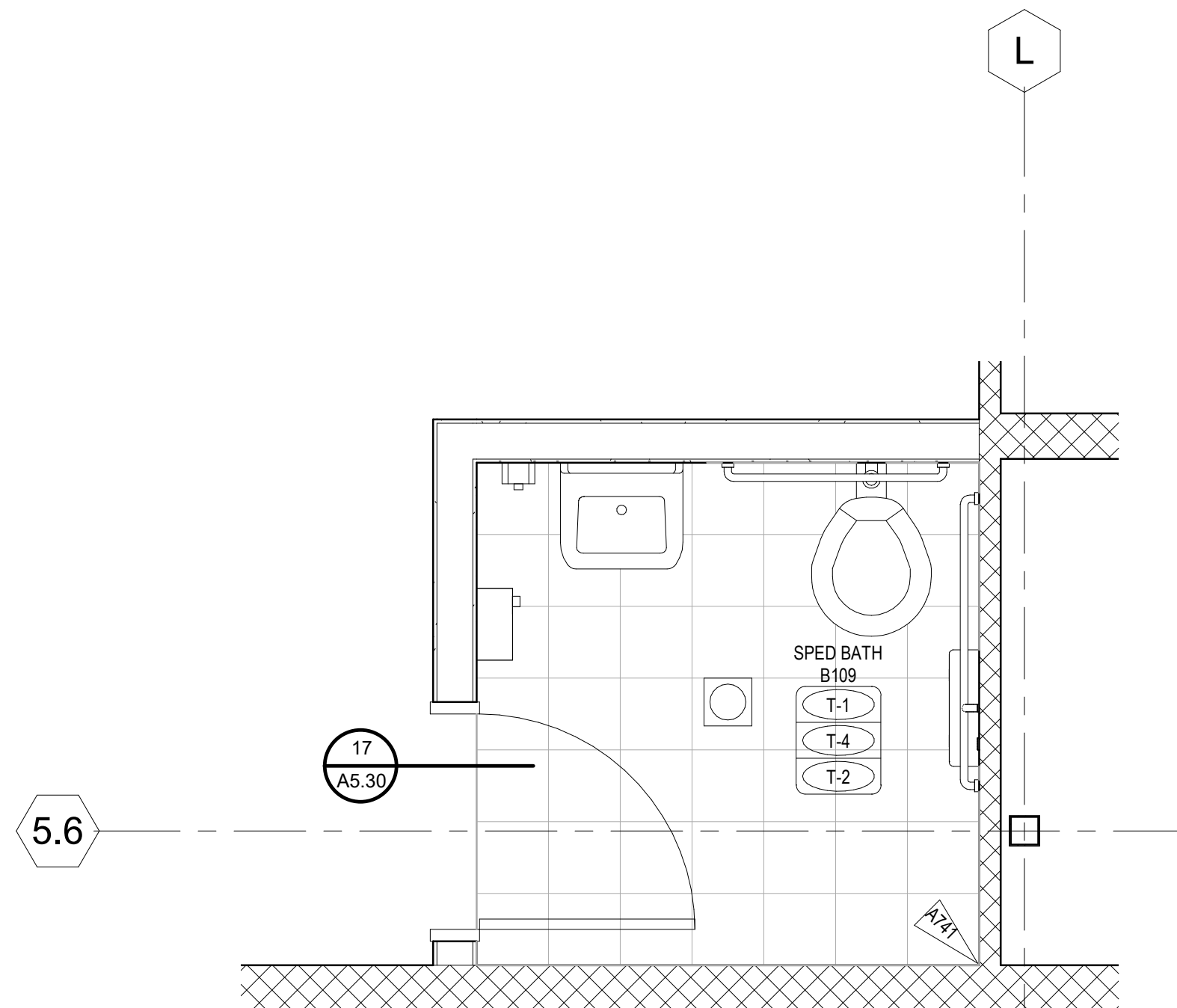
3 6TH GRADE BATHS FLOOR FINISH
A2.06 1/4" = 1'-0"



4 SOUTH ARCADE EAST BATHS FLOOR FINISH
A2.06 1/4" = 1'-0"



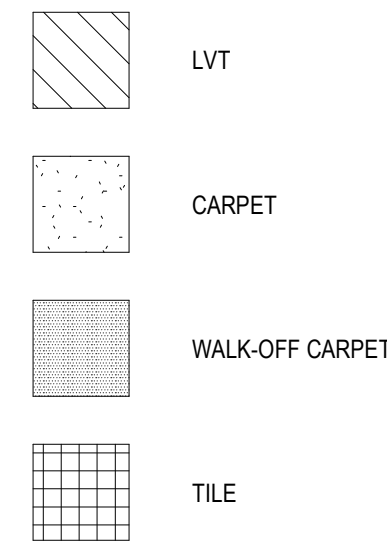
5 SOUTH ARCADE WEST BATHS FLOOR FINISH
A2.06 1/4" = 1'-0"



7 NEW SPED BATH FLOOR FINISH
A2.06 1/2" = 1'-0"

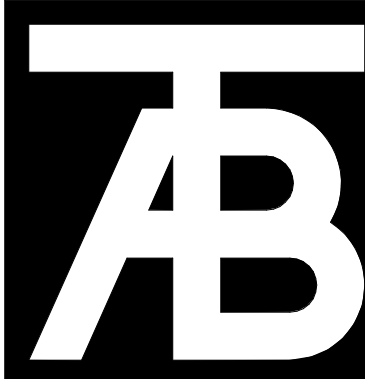
NOTES:

FLOOR MATERIAL LEGEND

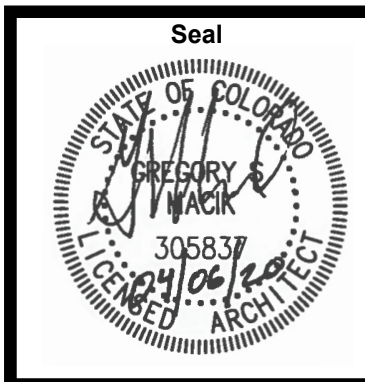


Keynote Legend

Key Value	Keynote Text
A246	NO WORK IN AREA
A726	EXISTING SEALED CONCRETE FLOOR TO REMAIN
A741	STARTER TILE



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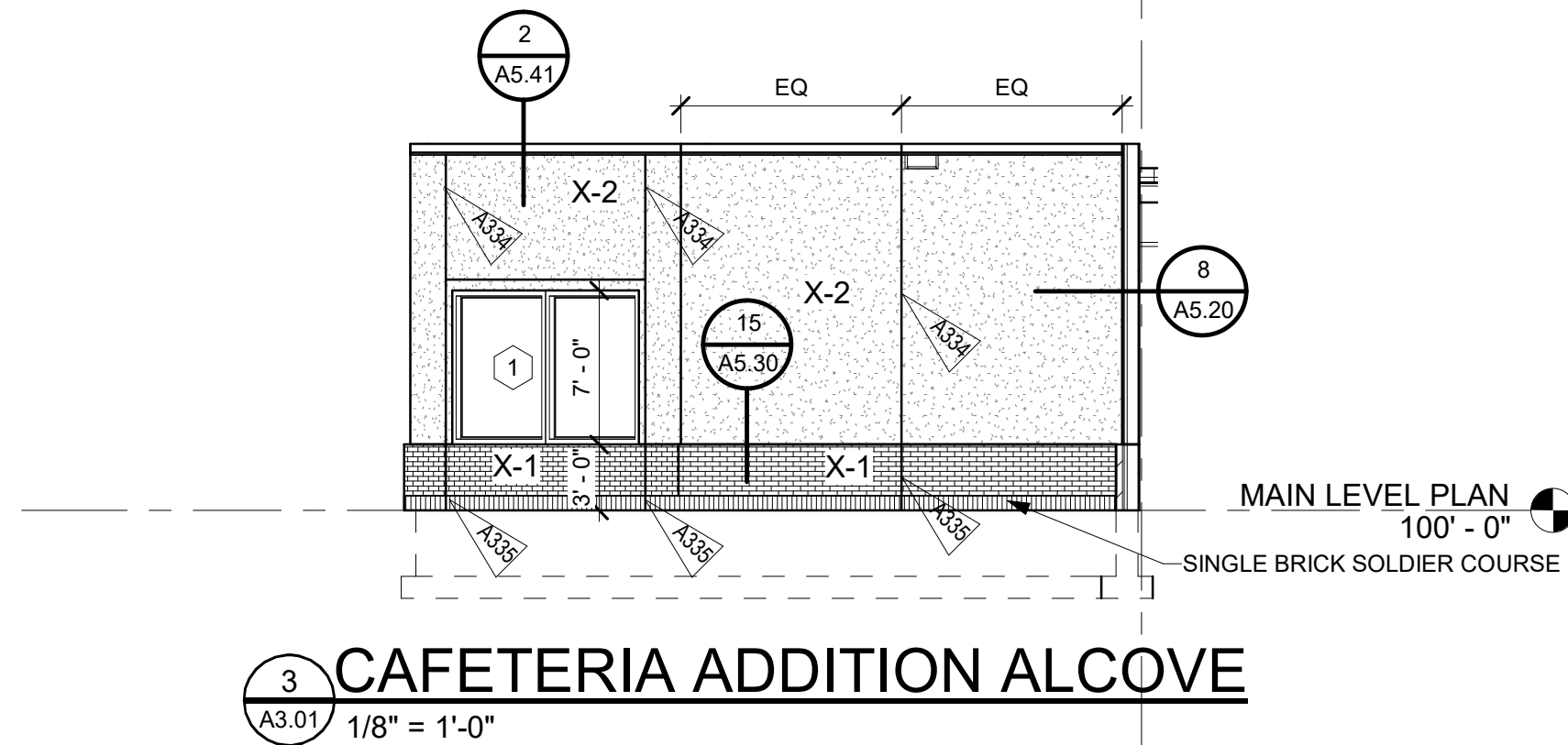
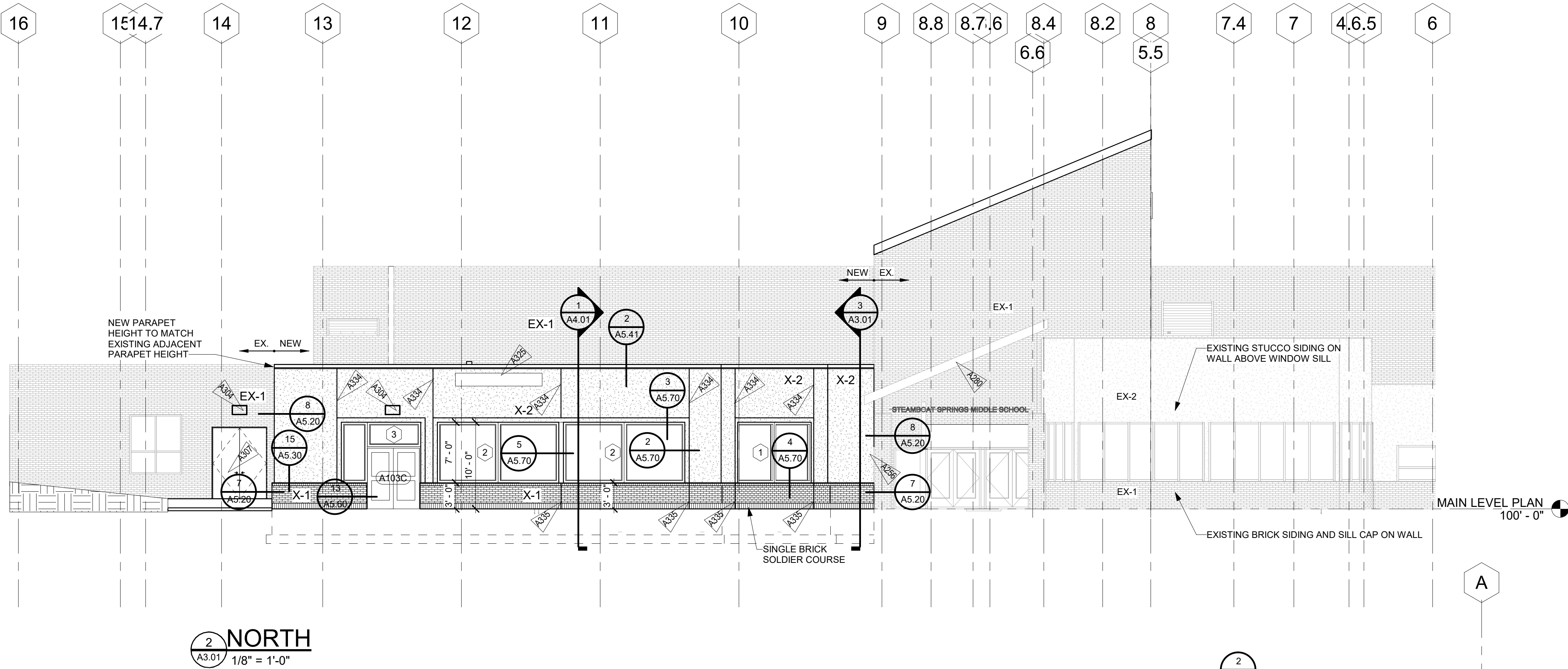
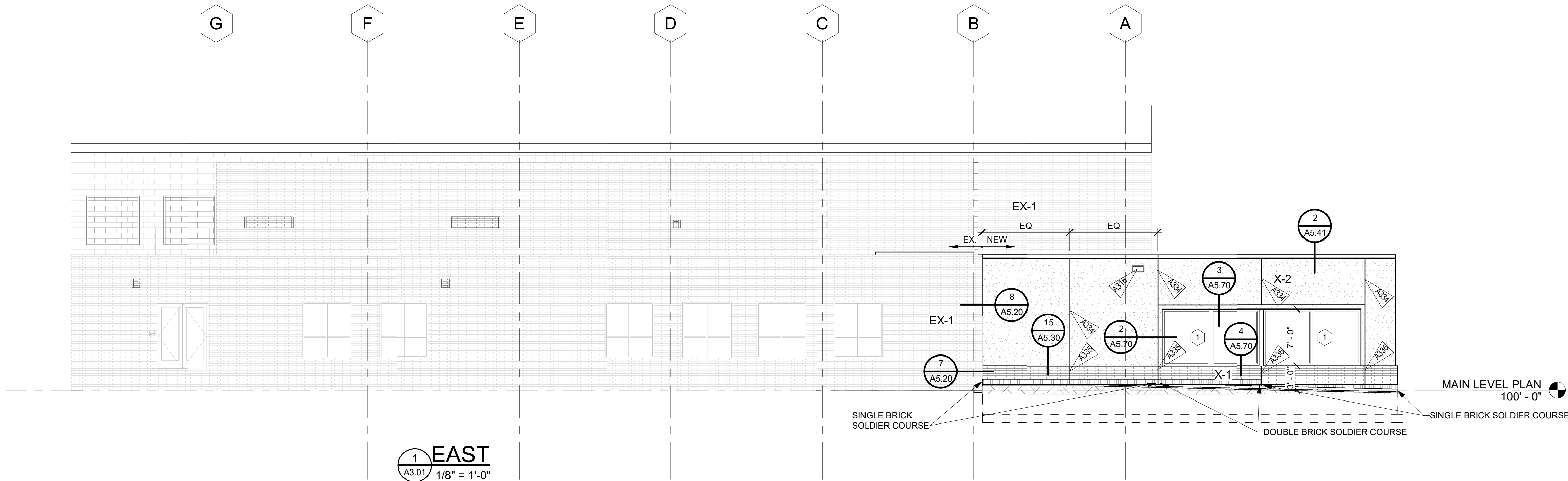
Revisions:		
No	Description	Date

Issue Dates:
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95% CD - 03/30/20
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Sheet Title:
Finish Floor Plans Bathrooms

Project No:
1935.03

Sheet No:
A2.06



NOTES:

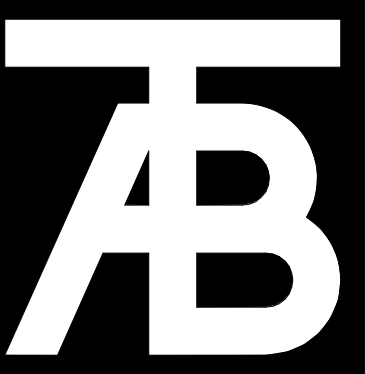
EXTERIOR ELEVATION GENERAL NOTES:

1. EXTERIOR FINISHES INDICATED ON ELEVATIONS SEE "EXTERIOR MATERIAL LEGEND" FOR MATERIALS.
2. REFERENCE ROOF PLAN FOR LOCATIONS OF ROOF COMPONENTS NOT INDICATED ON EXTERIOR ELEVATIONS.
3. REFER TO MEP AND STRUCTURAL DRAWINGS FOR ANY ADDITIONAL WORK.
4. ASSUME ALL PAINTED SURFACES IN AREA OF WORK WILL BE REPAINTED. THIS INCLUDES BUT IS NOT LIMITED TO: DOORS, DOOR FRAMES, WINDOW FRAMES, AND HEADERS, CEILINGS, HANDRAILS, EXPOSED MECHANICAL CMU ACCENTS, SOFFITS, STRUCTURAL BEAMS, AND ETC.
5. PROVIDE ALLOWANCE TO SEAL AND CAULK VARIOUS WALL PENETRATIONS AND HOLES AROUND EXTERIOR PERIMETER OF BUILDING. SIMILAR AREAS SUCH AS HOSE BIBS, PIPES, ETC.
6. PROVIDE ALLOWANCE TO REVIEW ALL EXPOSED ELECTRICAL CONDUIT TO DETERMINE FEASIBILITY TO REMOVE OR RELOCATE. INCLUDE IN ALLOWANCE LABOR AND MATERIALS TO REMOVE OR RELOCATE.
7. SEE CIVIL PLANS FOR NOTE TO RESEAL ALL HORIZONTAL CONCRETE AND ASPHALT JOINTS AT BUILDING.
8. WHEN A PORTION OF A WALL IS PAINTED ASSUME THE ENTIRE WALL IS PAINTED TO INSIDE OR OUTSIDE CORNERS.
9. DO NOT SCALE DRAWINGS.
10. ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS NOTED OTHERWISE.

EXTERIOR MATERIAL LEGEND:

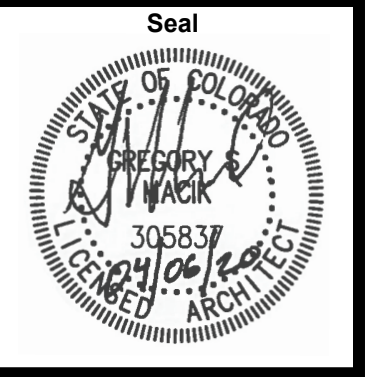
- EX-1 EXISTING BRICK
- X-1 NEW BRICK TO MATCH EXISTING
- X-2 NEW STUCCO TO MATCH EXISTING
- ER-1 EXISTING EPDM
- R-1 NEW 90 MIL FULLY ADHERED REINFORCED EPDM ROOF ON SINGLE LAYER OF DENSDECK ON RIGID INSULATION ON ONE LAYER OF DENSDECK INSTALLED ON TOP OF MTL ROOF DECK
- CJ STUCCO CONTROL JOINT

Keynote Legend	
Key Value	Keynote Text
A256	EXISTING ROOF DRAIN OR GUTTER AND DOWNSPOUT TO REMAIN
A280	EXISTING ROOF TO REMAIN
A304	REINSTALL SALVAGED EXTERIOR LIGHT CENTERED ABOVE DOOR BELOW
A307	INSTALL NEW DOORS, REF DOOR SCHEDULE
A316	LAMBS TOUNGE ROOF DRAIN AND SCUPPER, REF DETAIL 10/A5.40
A325	INSTALL SALVAGED ELECTRIC SIGN
A334	STUCCO CONTROL JOINT, REF 11/A5.30
A335	MASONRY CONTROL JOINT
EX-1	EXISTING BRICK
X-1	NEW BRICK TO MATCH EXISTING
X-2	NEW STUCCO WITH INTEGRAL COLOR FINISH COAT



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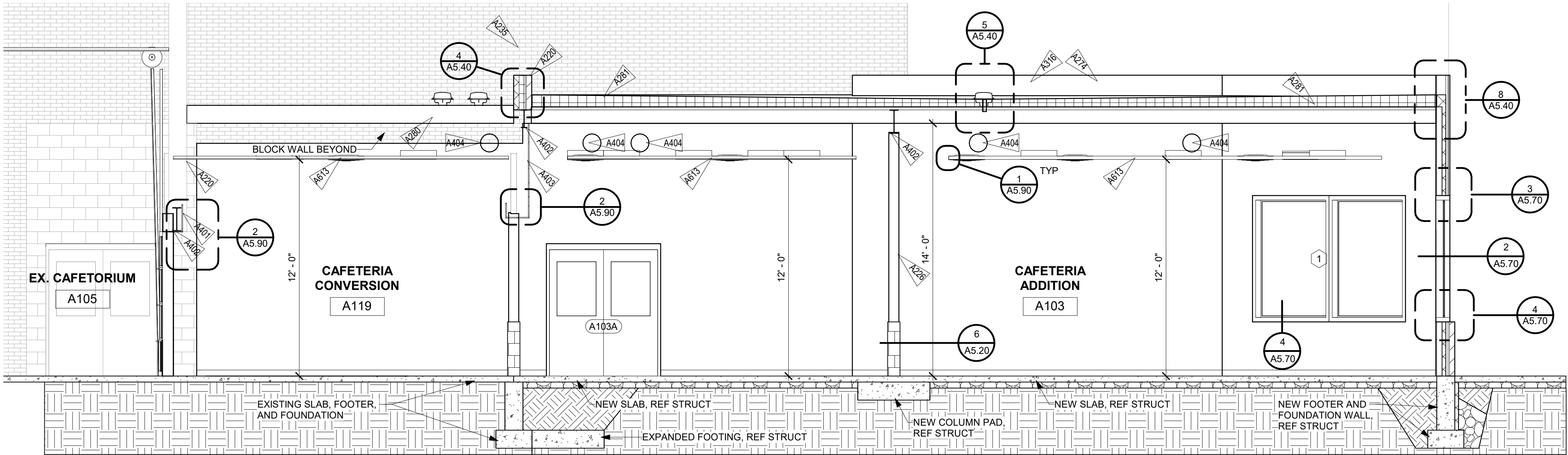
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No	Description	Date

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Sheet Title:
Exterior Elevations

Project No:
1935.03

Sheet No:
A3.01



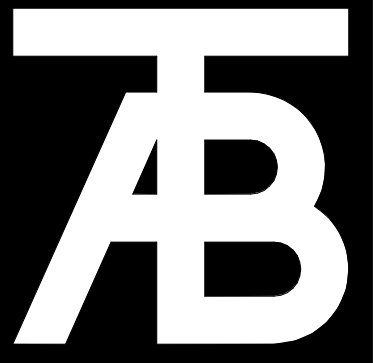
1 CAFETERIA ADDITION SECTION
A4.01 1/4" = 1'-0"

NOTES:

EXTERIOR MATERIAL LEGEND:

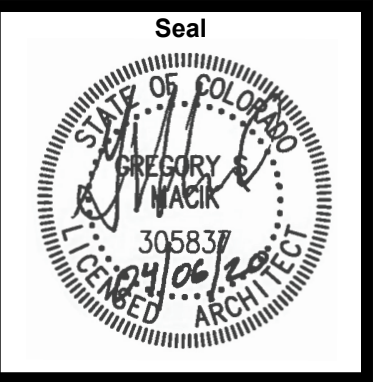
- EX-1 EXISTING BRICK
X-1 NEW BRICK TO MATCH EXISTING
X-2 NEW STUCCO TO MATCH EXISTING
ER-1 EXISTING EPDM
R-1 NEW 90 MIL FULLY ADHERED REINFORCED EPDM ROOF ON SINGLE LAYER OF DENSDECK ON RIGID INSULATION ON ONE LAYER OF DENSDECK INSTALLED ON TOP OF MTL ROOF DECK
CJ STUCCO CONTROL JOINT

Keynote Legend	
Key Value	Keynote Text
A220	EXISTING WALL TO REMAIN
A226	INSTALL DRYWALL WRAP ON STRUCT COLUMN, SIM TO 6/A5.20
A235	INSTALL NEW EPDM ROOFING UP, OVER, AND DOWN PARAPET 6" MIN, INSTALL NEW PARAPET CAP
A274	INSTALL NEW PARAPET
A280	EXISTING ROOF TO REMAIN
A281	INSTALL NEW 90 MIL REINFORCED EPDM ROOF WITH TAPERED R-35 MIN RIGID INSULATION
A316	LAMBS TOUNGE ROOF DRAIN AND SCUPPER, REF DETAIL 10/A5.40
A401	DRYWALL WRAP STEEL BEAM
A402	STEEL BEAM, REF STRUCTURAL DRAWINGS
A403	NEW STEEL STUD WALL UP TO B.O. ROOF JOISTS WITH 5/8" GWB ON ROOM SIDE
A404	NEW MECH DUCT, REF MECH DRAWINGS
A613	NEW 2x4 SUSPENDED ACOUSTIC CEILING TILE CLOUD



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Sheet Title:
**Building
Sections**

Project No:
1935.03

Sheet No:
A4.01

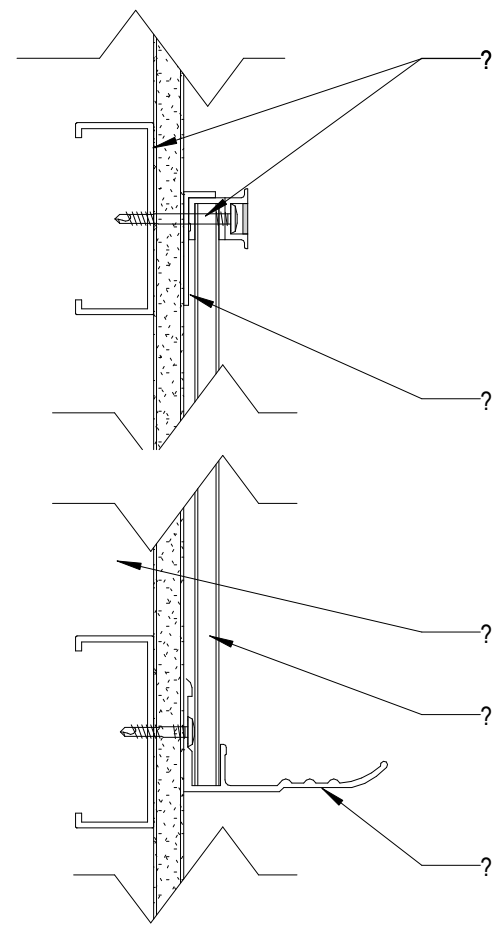
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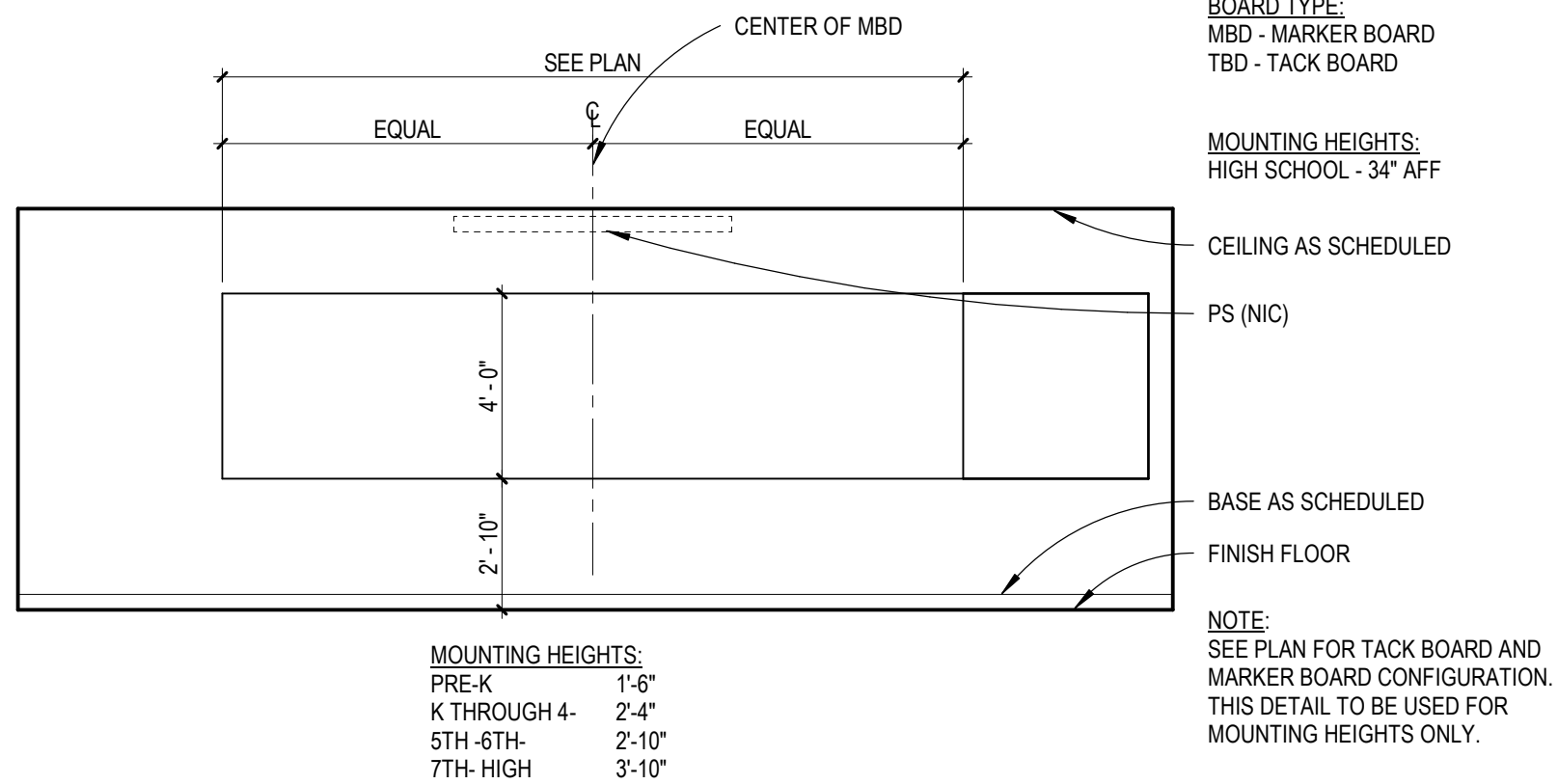
Foundation /Site Details

Sheet No:
A5.10

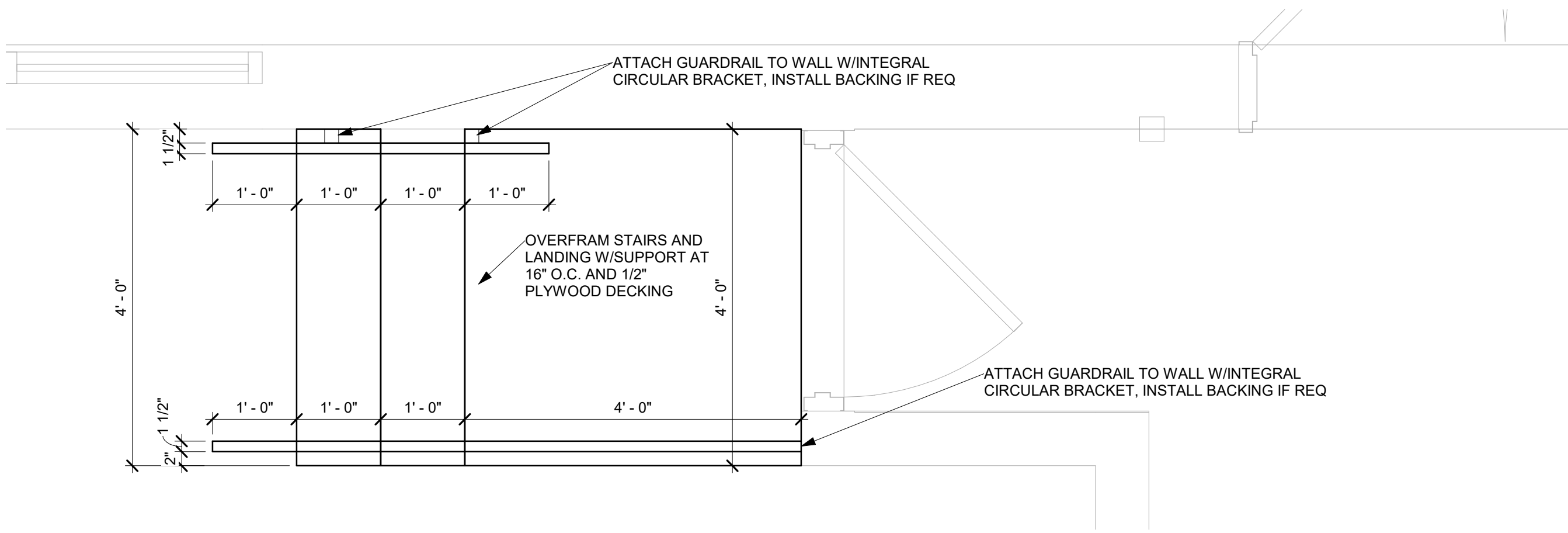




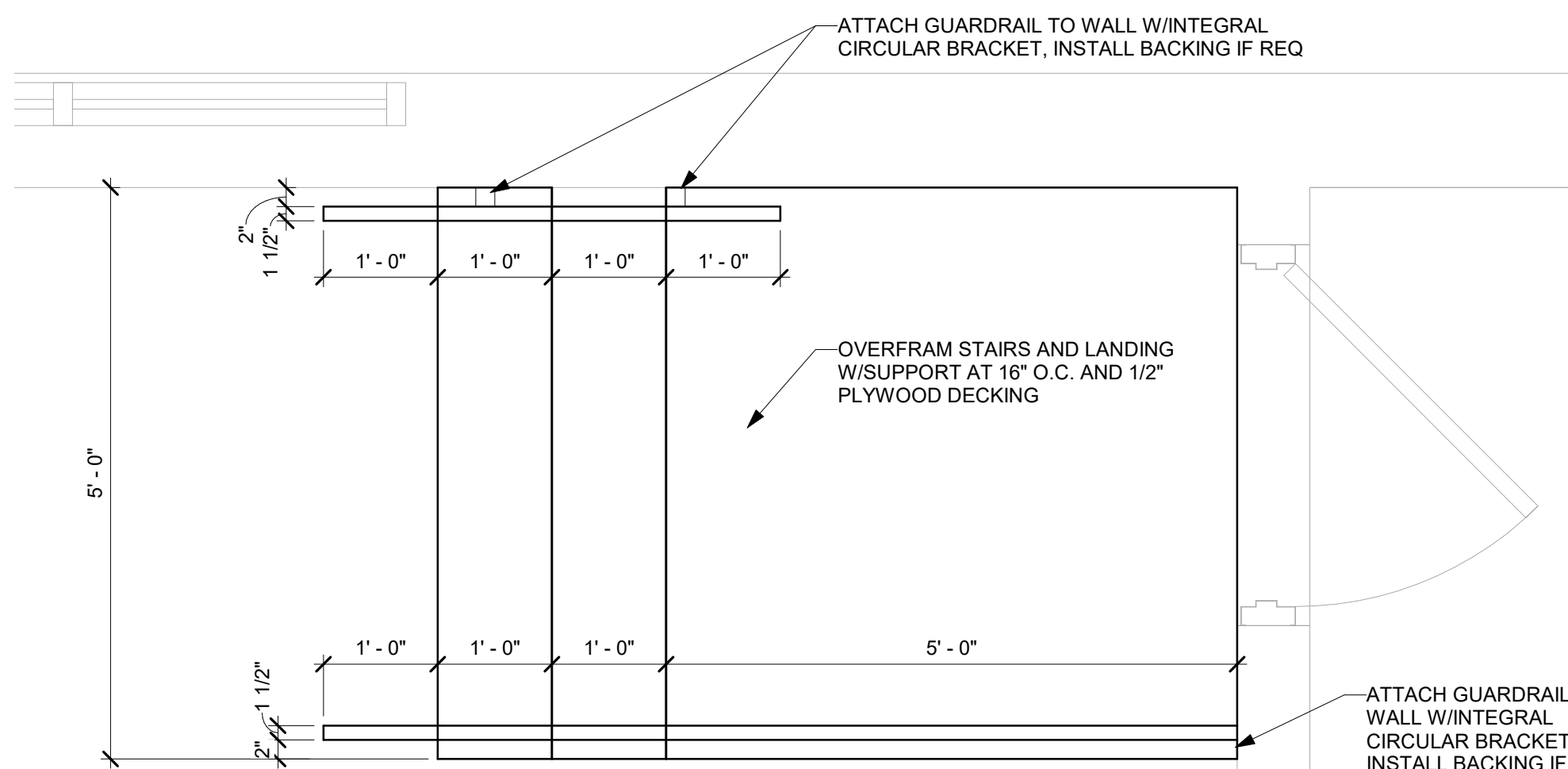
1 MARKERBOARD ATTACHMENT
A5.20 3" = 1'-0"



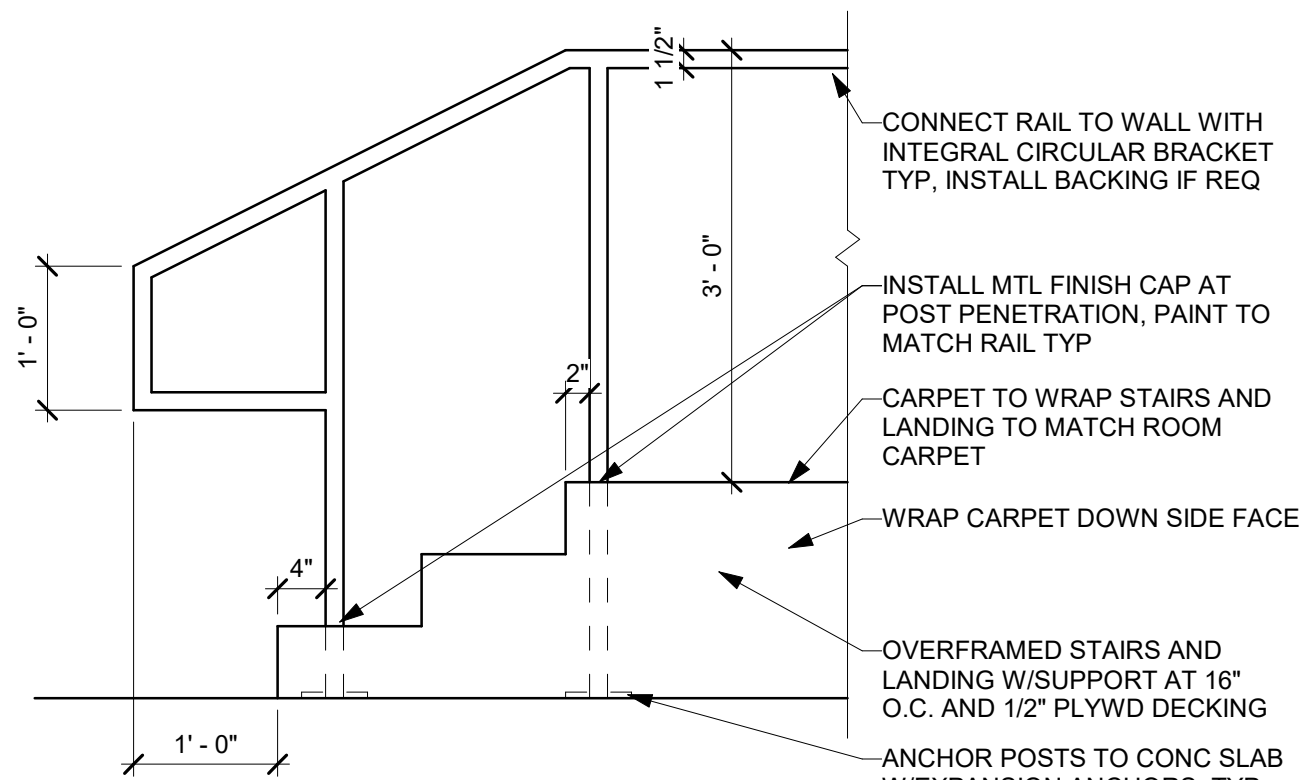
2 MBD / TBD / TV ELEVATION
A5.20 1/4" = 1'-0"



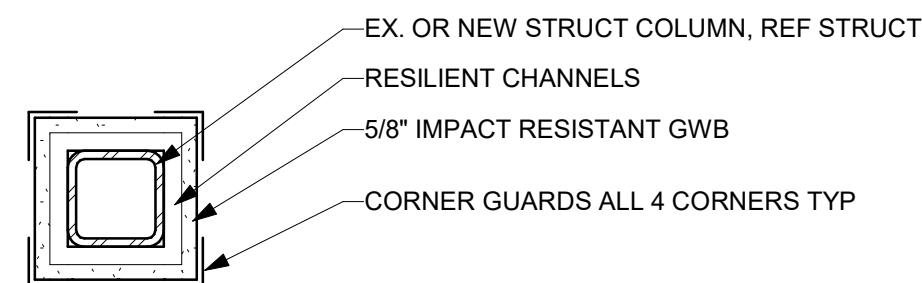
3 CHORAL A114 STAIR
A5.20 3/4" = 1'-0"



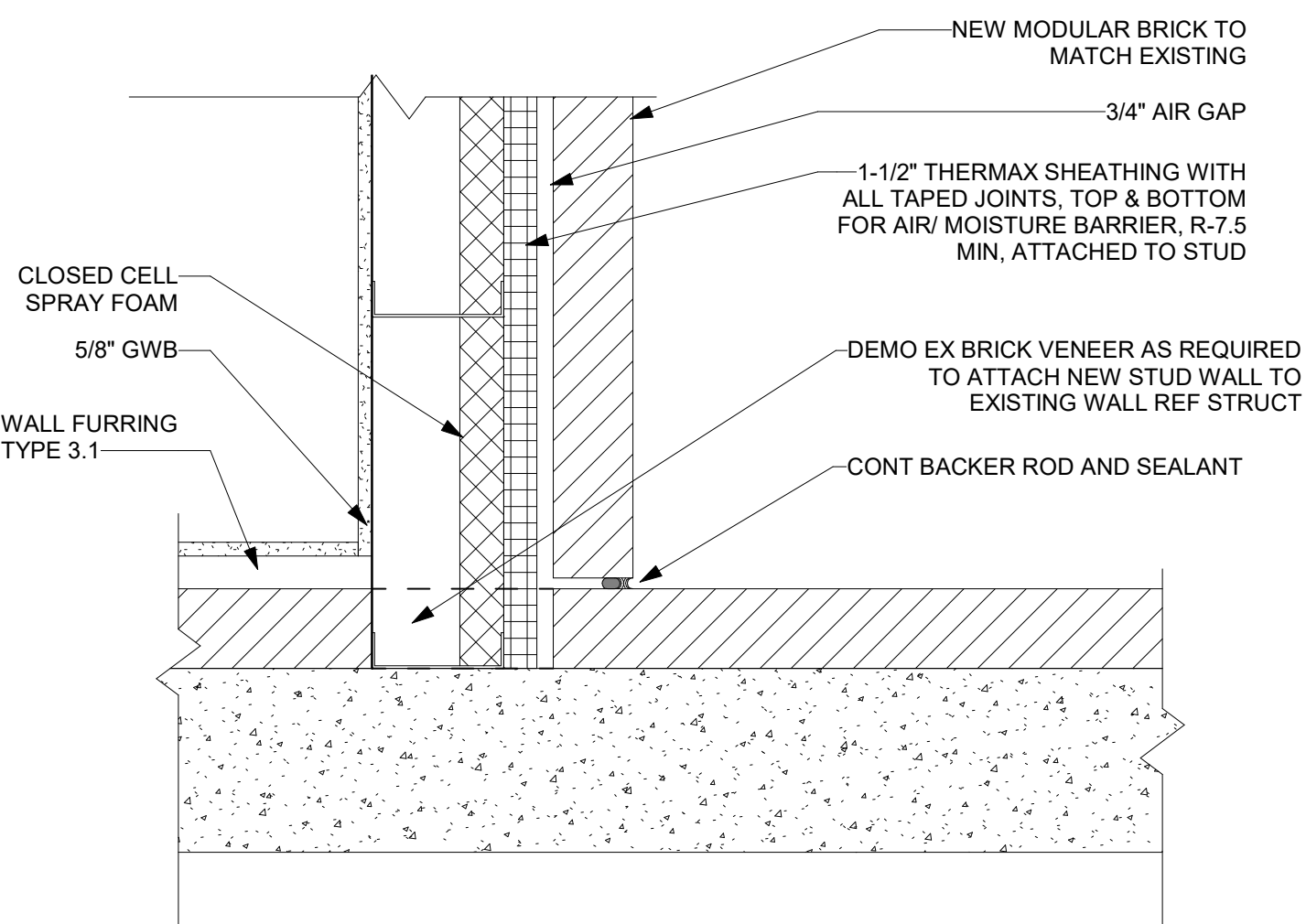
4 INSTRUMENTAL A111 STAIR
A5.20 3/4" = 1'-0"



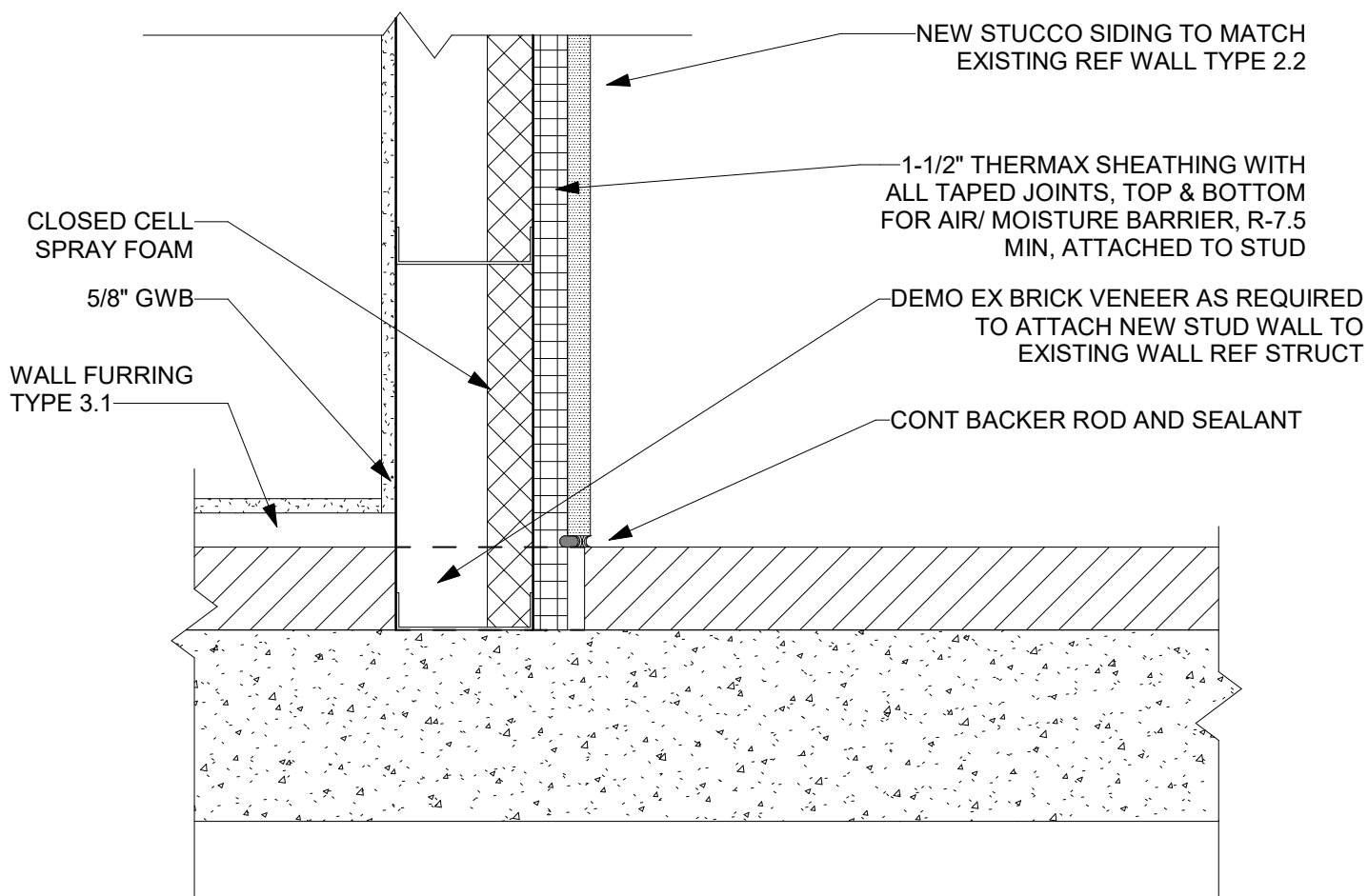
5 TYP HANDRAIL
A5.20 3/4" = 1'-0"



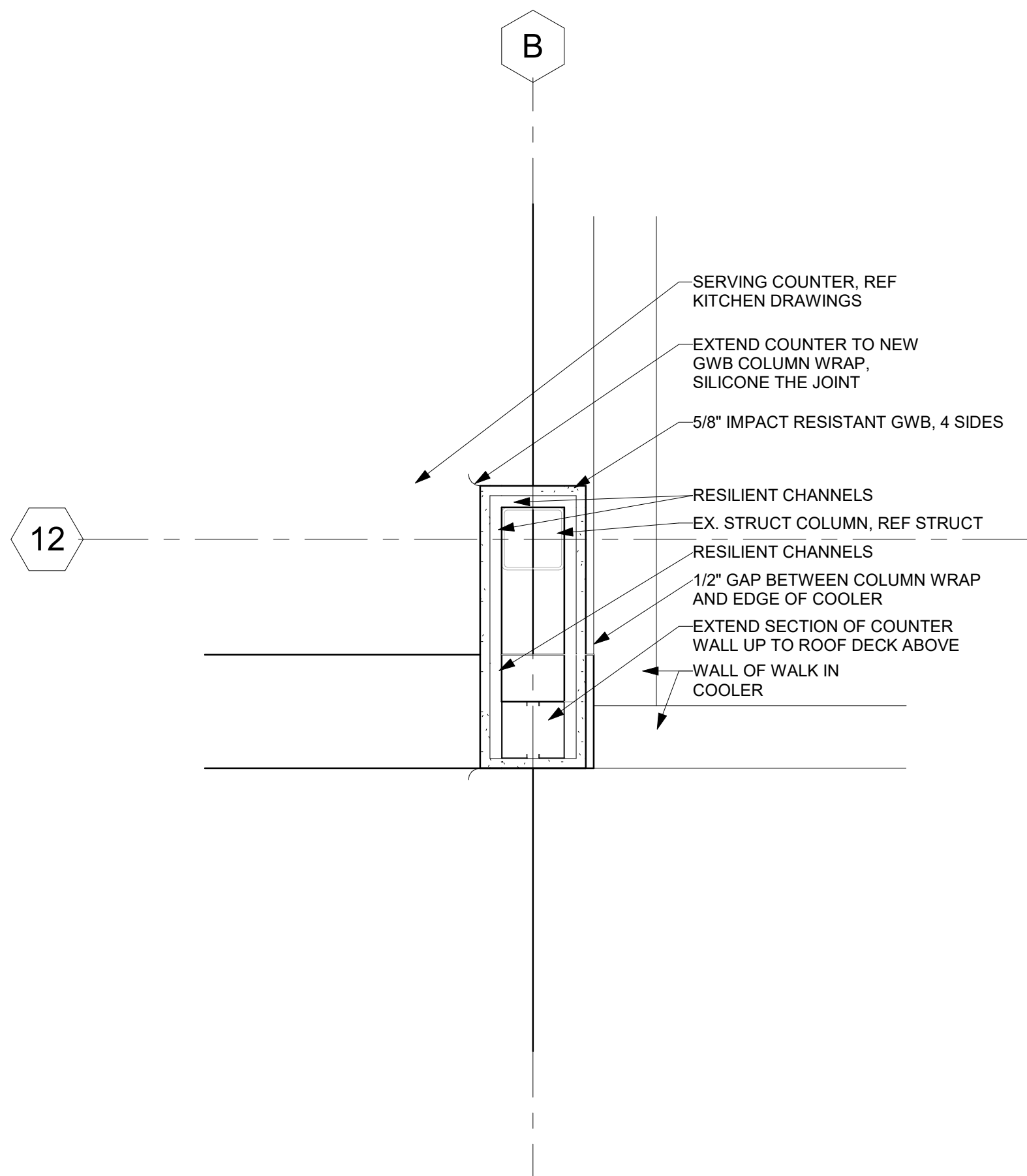
6 TYP STL COLUMN WRAP
A5.20 1 1/2" = 1'-0"



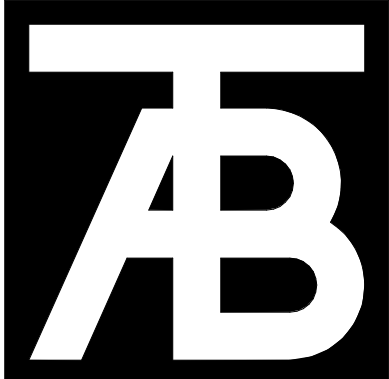
7 NEW BRICK WALL TO EX MASONRY
A5.20 1 1/2" = 1'-0"



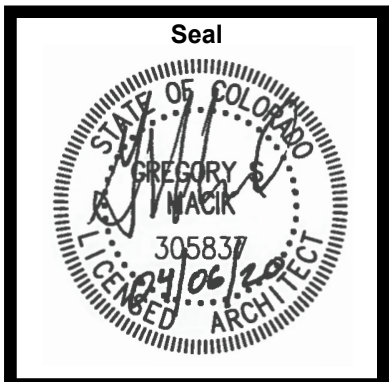
8 NEW STUCCO WALL TO EX MASONRY
A5.20 1 1/2" = 1'-0"



9 SERVING LINE COLUMN WRAP
A5.20 1 1/2" = 1'-0"



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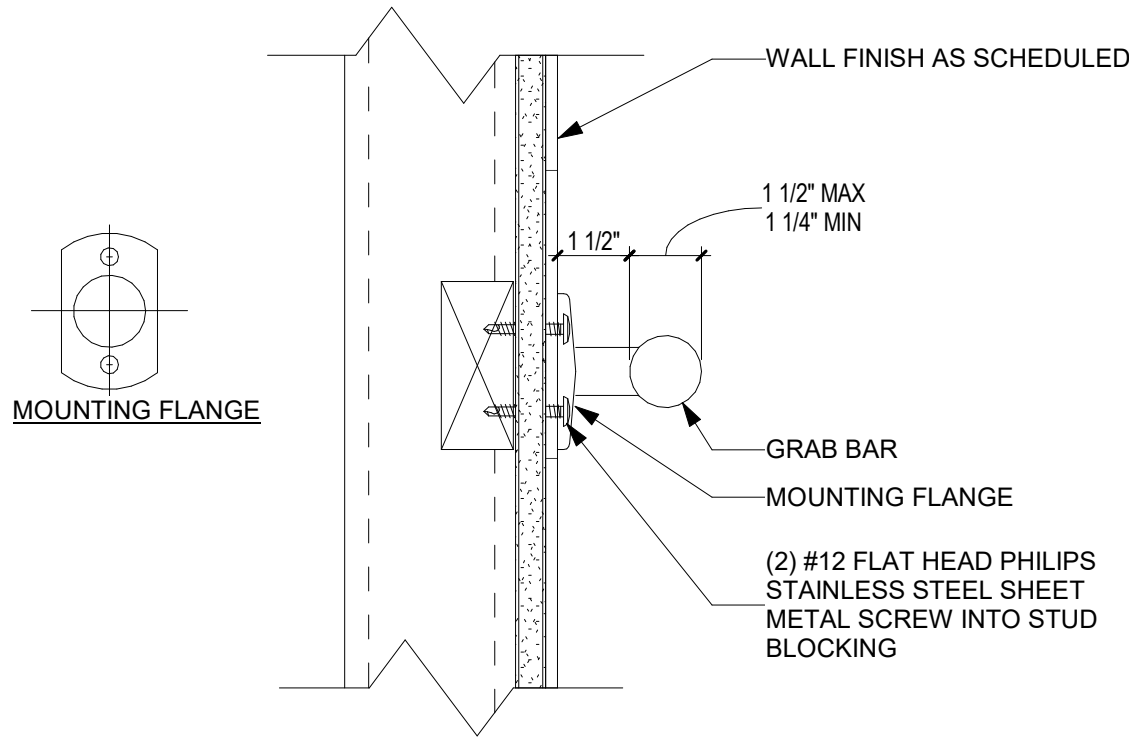
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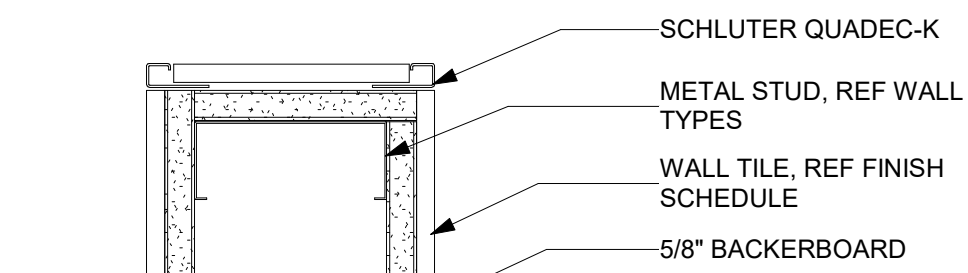
Sheet Title:
Plan Details

Project No:
1935.03

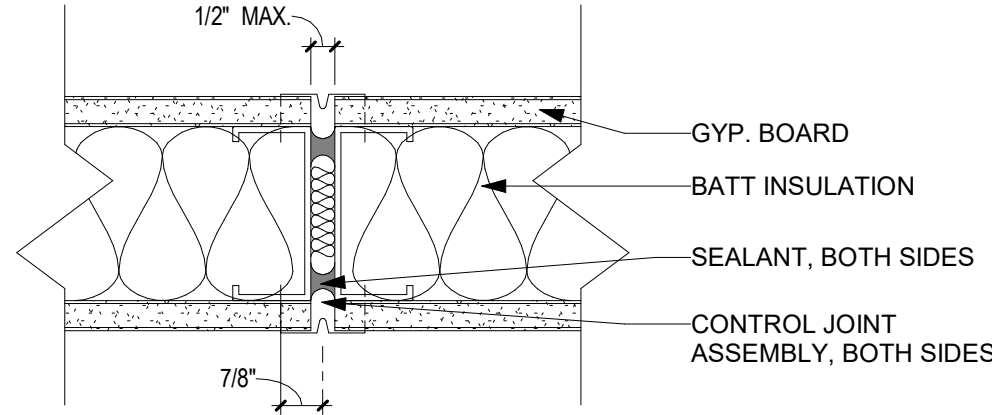
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A5.20



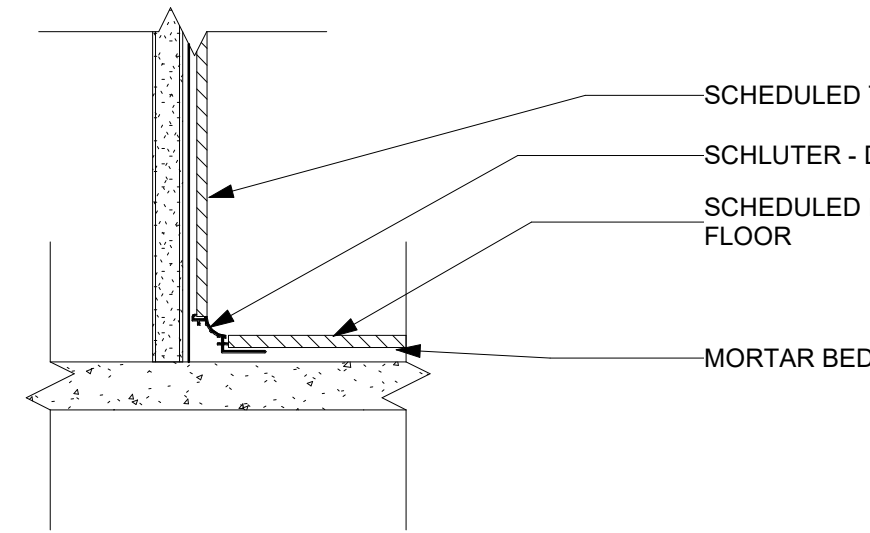
1 GRAB BAR ATTACHMENT DETAIL
A5.30 3" = 1'-0"



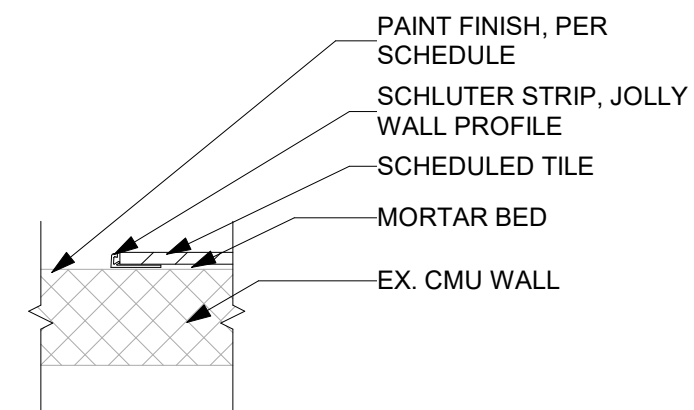
2 TILE CORNER EDGE - TYP
A5.30 3" = 1'-0"



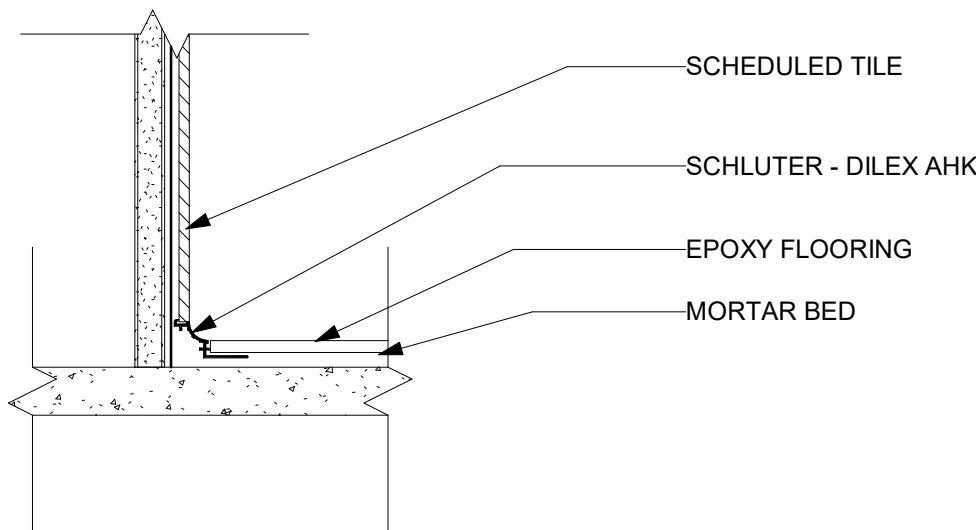
3 CONTROL JOINT @ WALL
A5.30 3" = 1'-0"



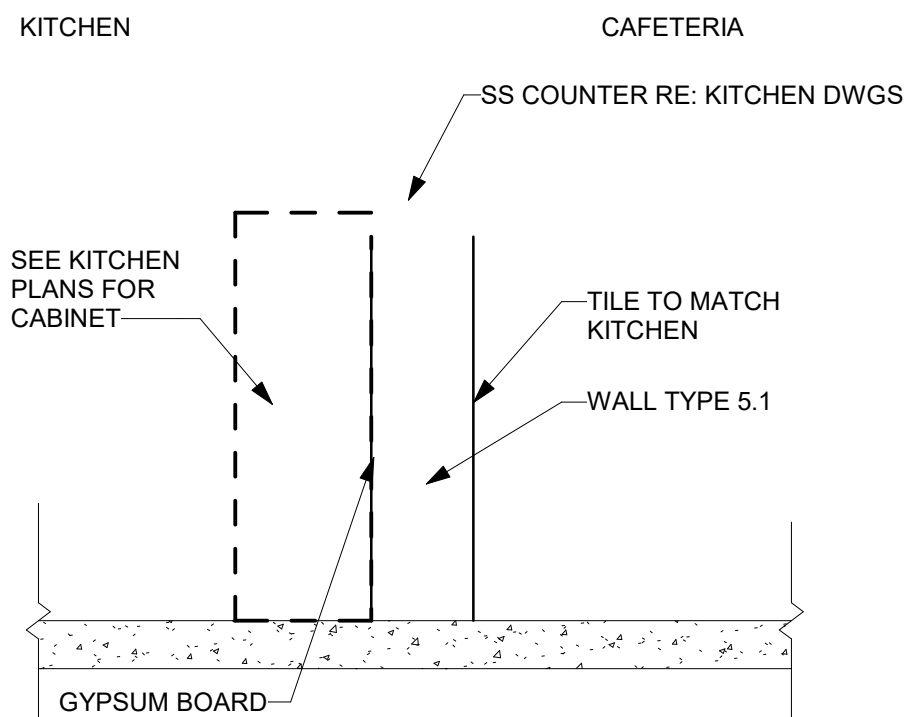
4 RESTROOM WALL BASE TRANSITION
A5.30 3" = 1'-0"



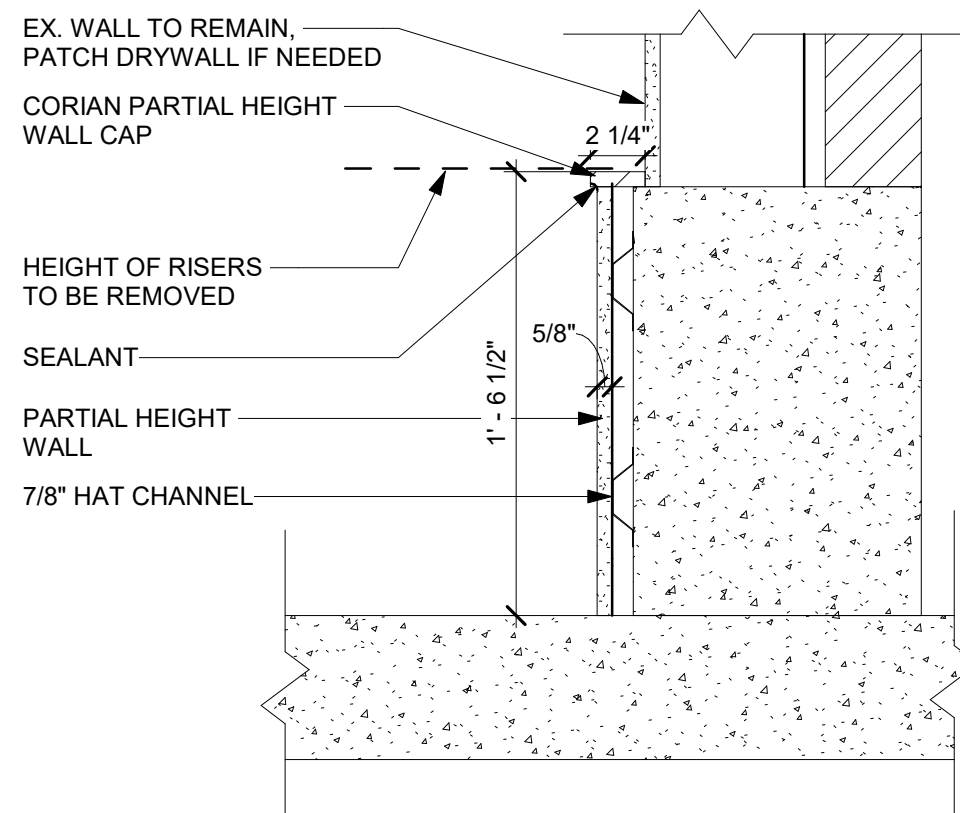
5 TILE END - SCHLUTER
A5.30 3" = 1'-0"



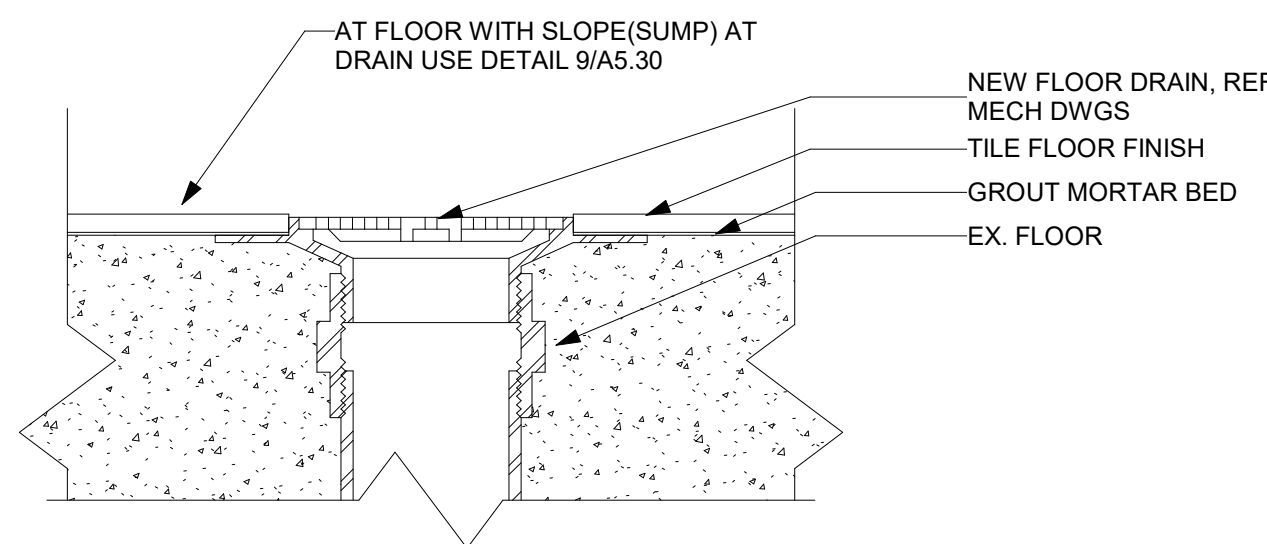
6 TILE/EPOXY FLOORING
A5.30 3" = 1'-0"



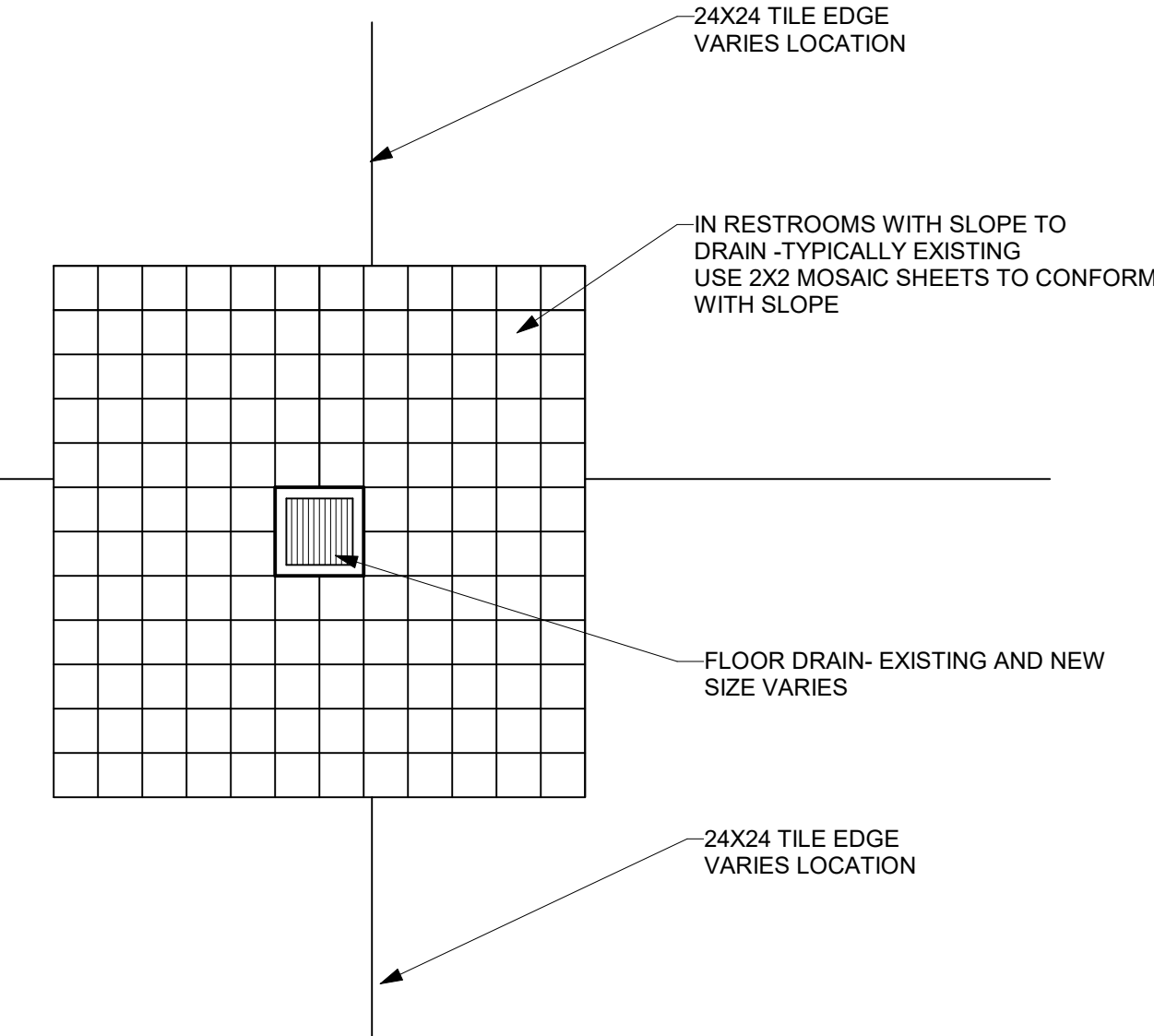
7 TYP KITCHEN SERVING COUNTER
A5.30 3/4" = 1'-0"



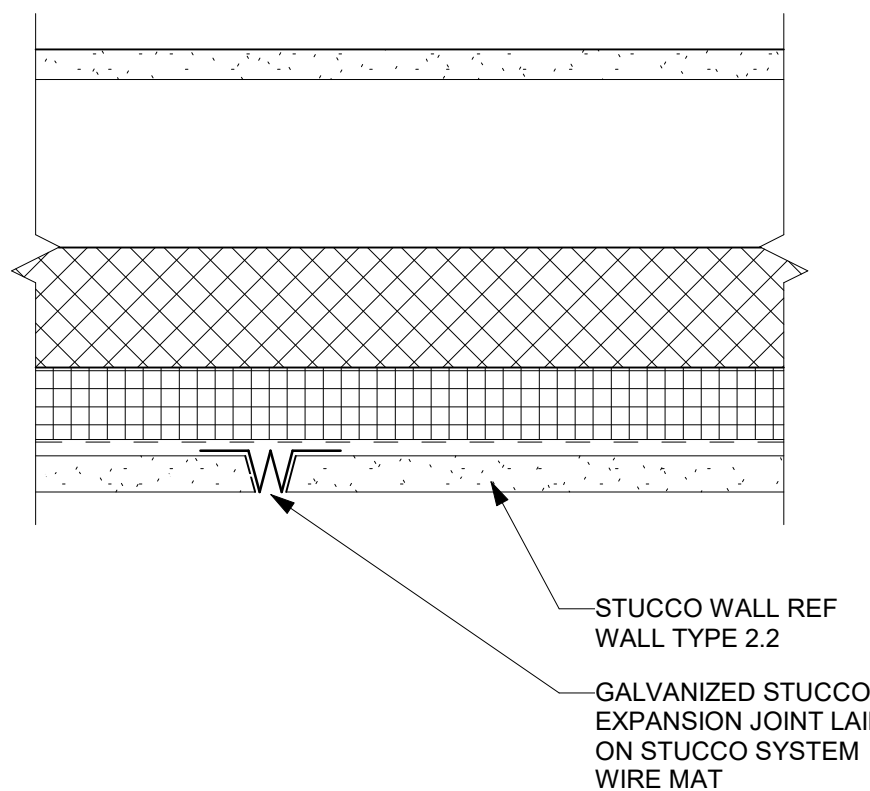
8 TYP EX. RISER WALL PATCH
A5.30 1 1/2" = 1'-0"



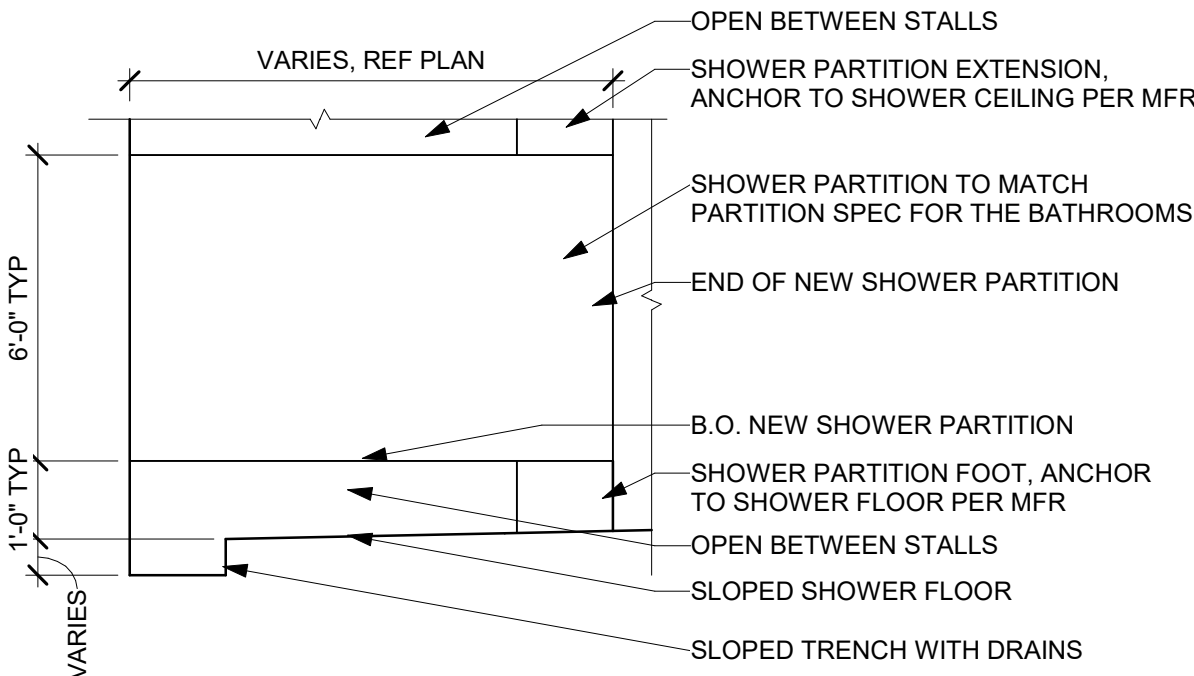
9 TYP TILE @ DRAIN SECTION
A5.30 3" = 1'-0"



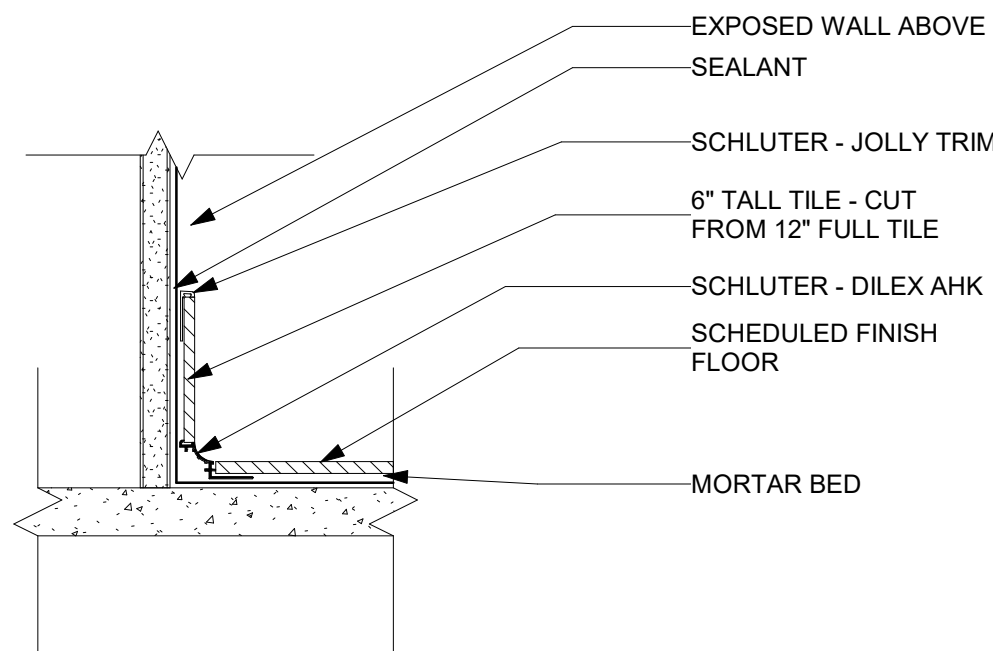
10 TYP TILE @ DRAIN PLAN
A5.30 1 1/2" = 1'-0"



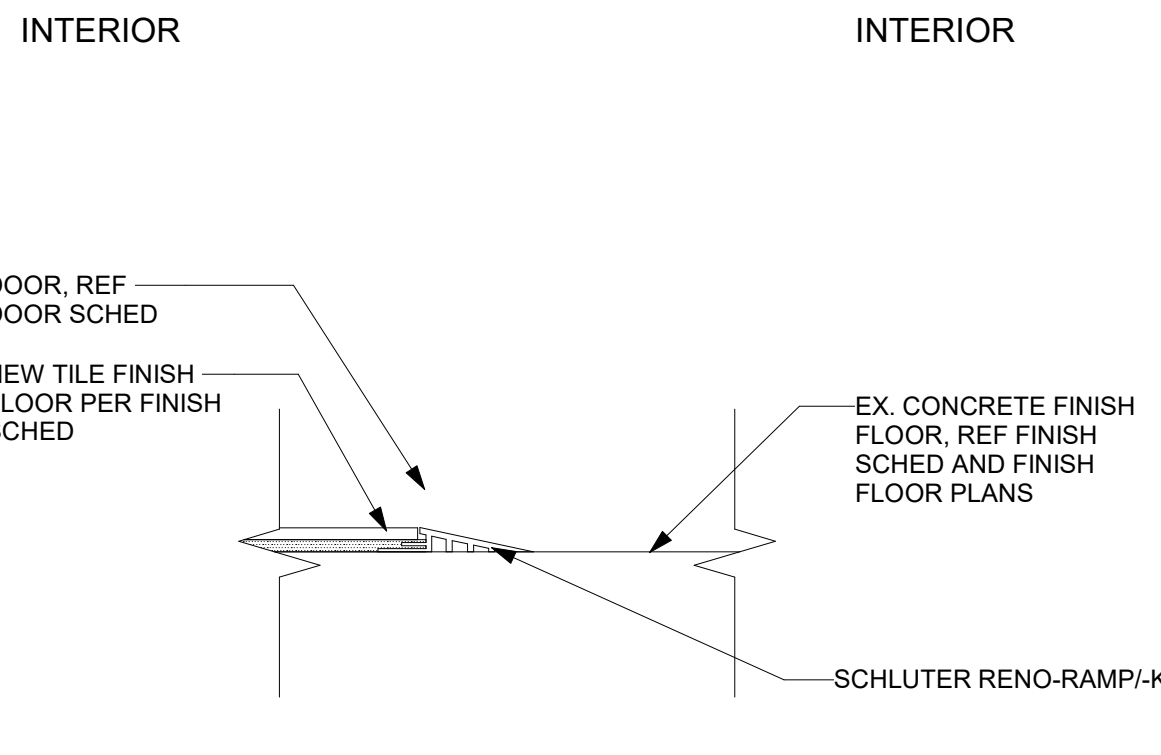
11 STUCCO CONTROL JOINT
A5.30 3" = 1'-0"



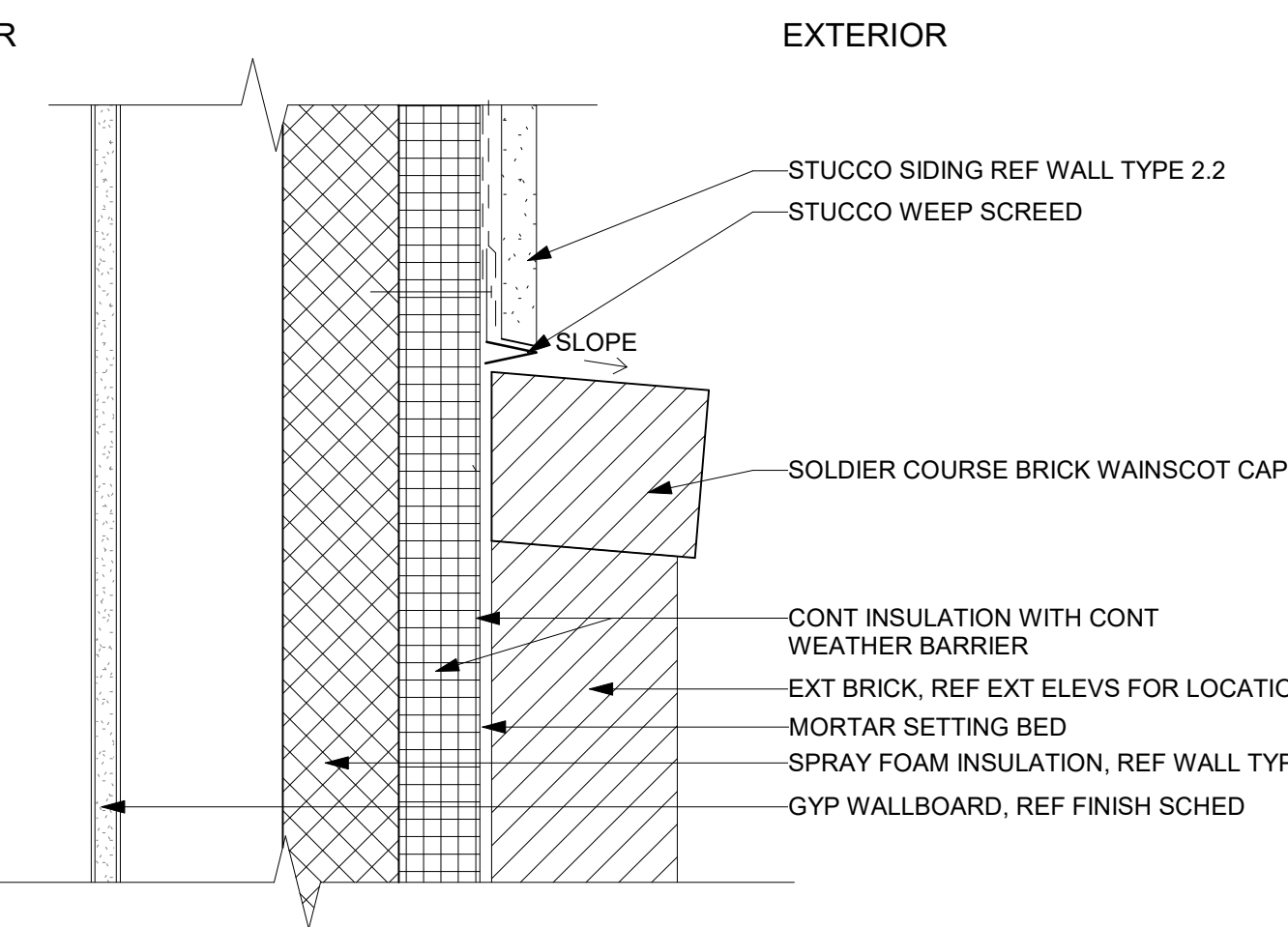
12 TYP SHOWER PARTITION
A5.30 1 1/2" = 1'-0"



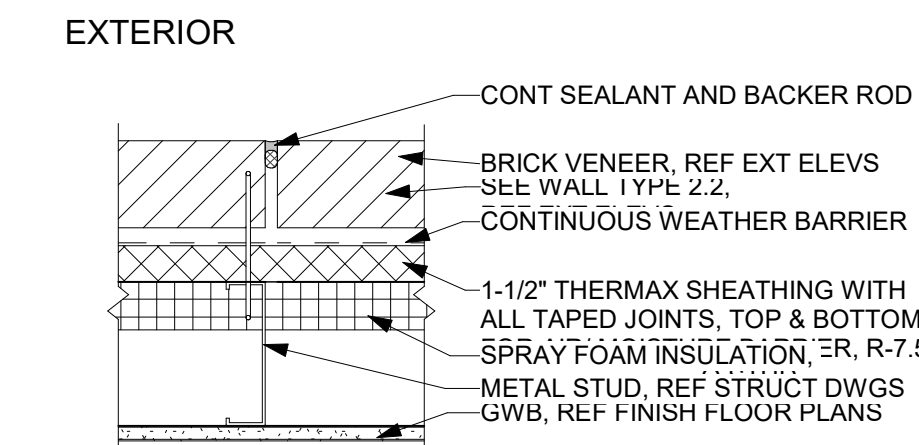
13 RESTROOM WALL BASE
A5.30 3" = 1'-0"



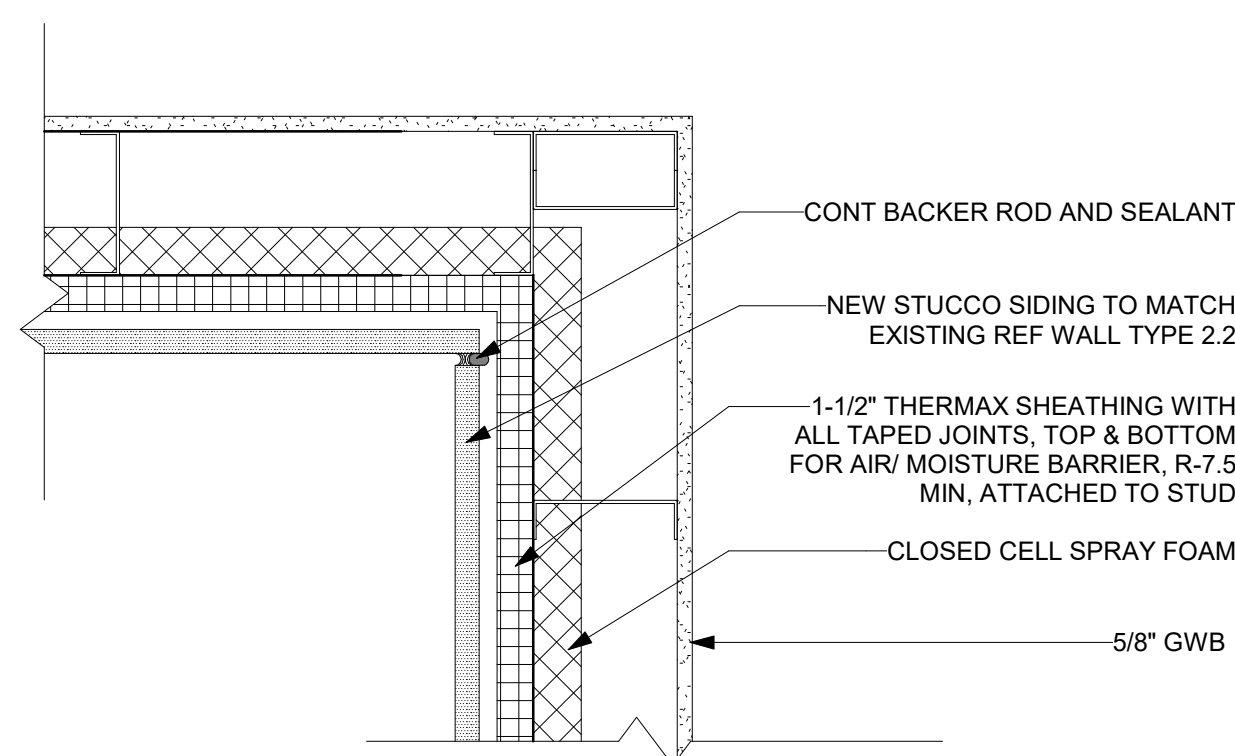
14 TILE TO CONCRETE FLOOR
A5.30 3" = 1'-0"



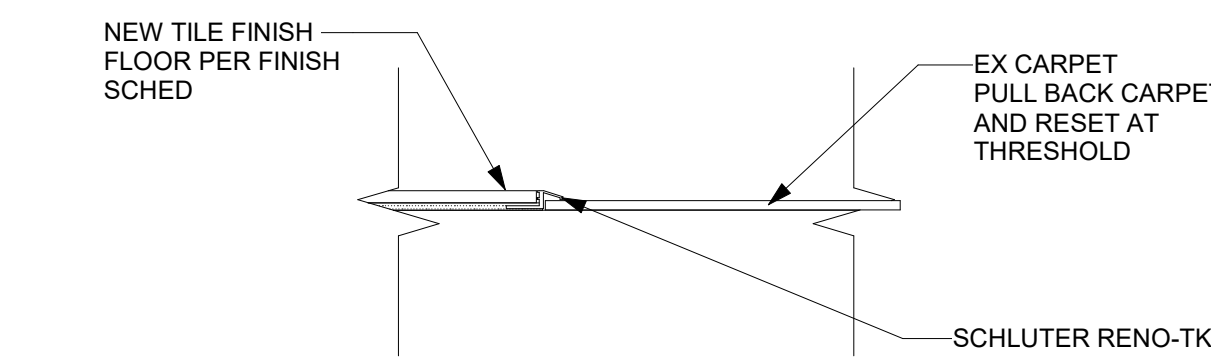
15 TYP BRICK WAINSCOT CAP
A5.30 3" = 1'-0"



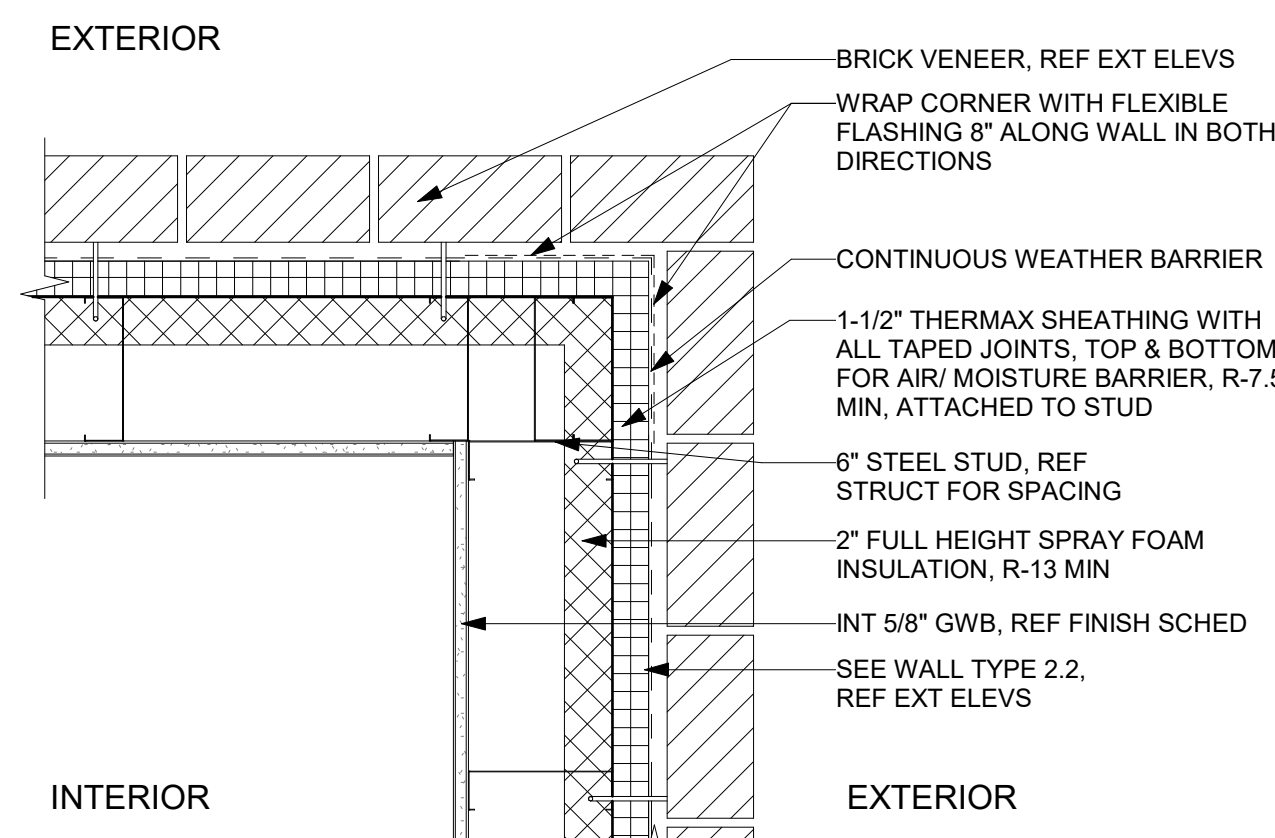
20 BRICK CONTROL JOINT
A5.30 1 1/2" = 1'-0"



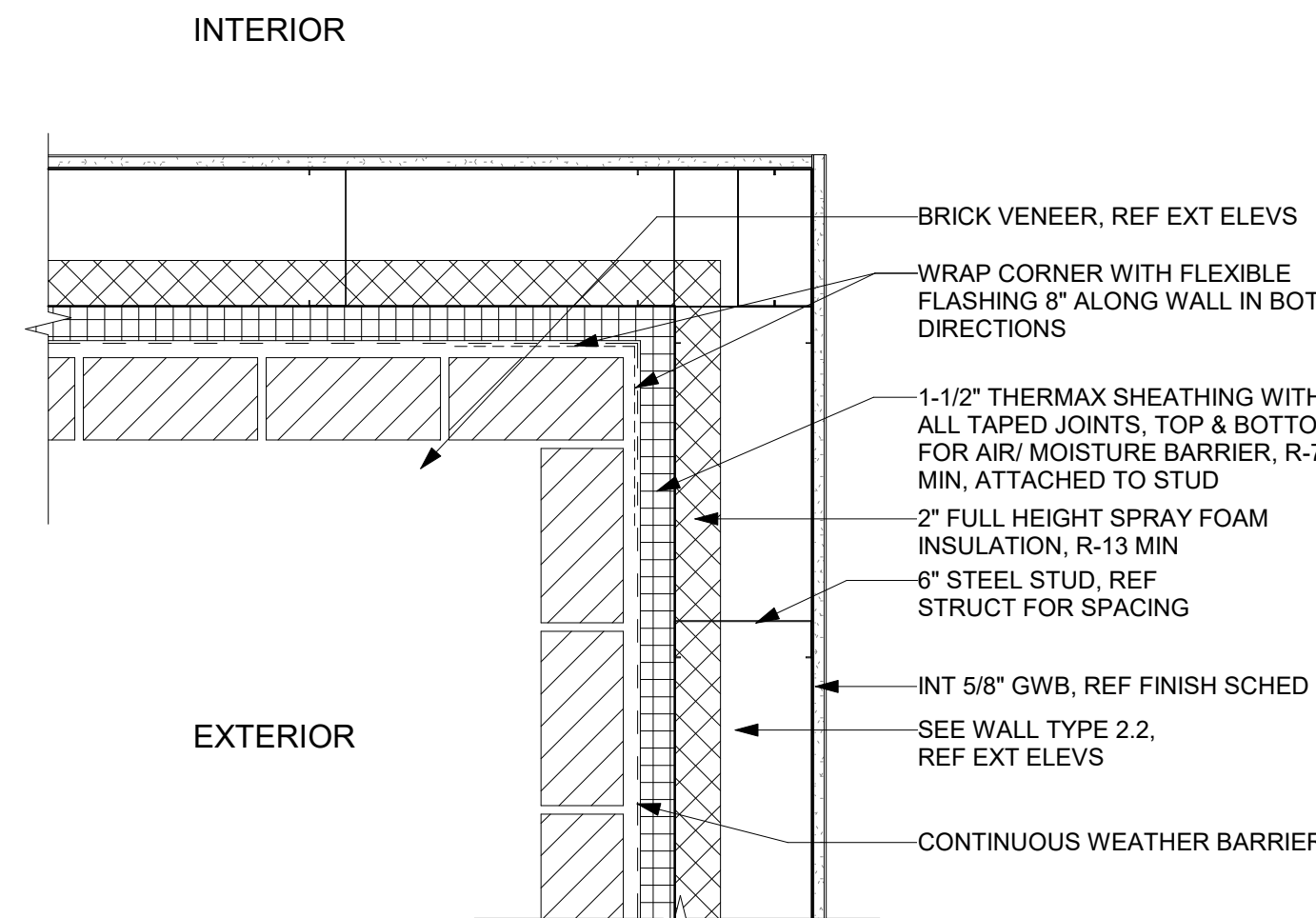
16 STUCCO WALL INTERIOR CORNER
A5.30 1 1/2" = 1'-0"



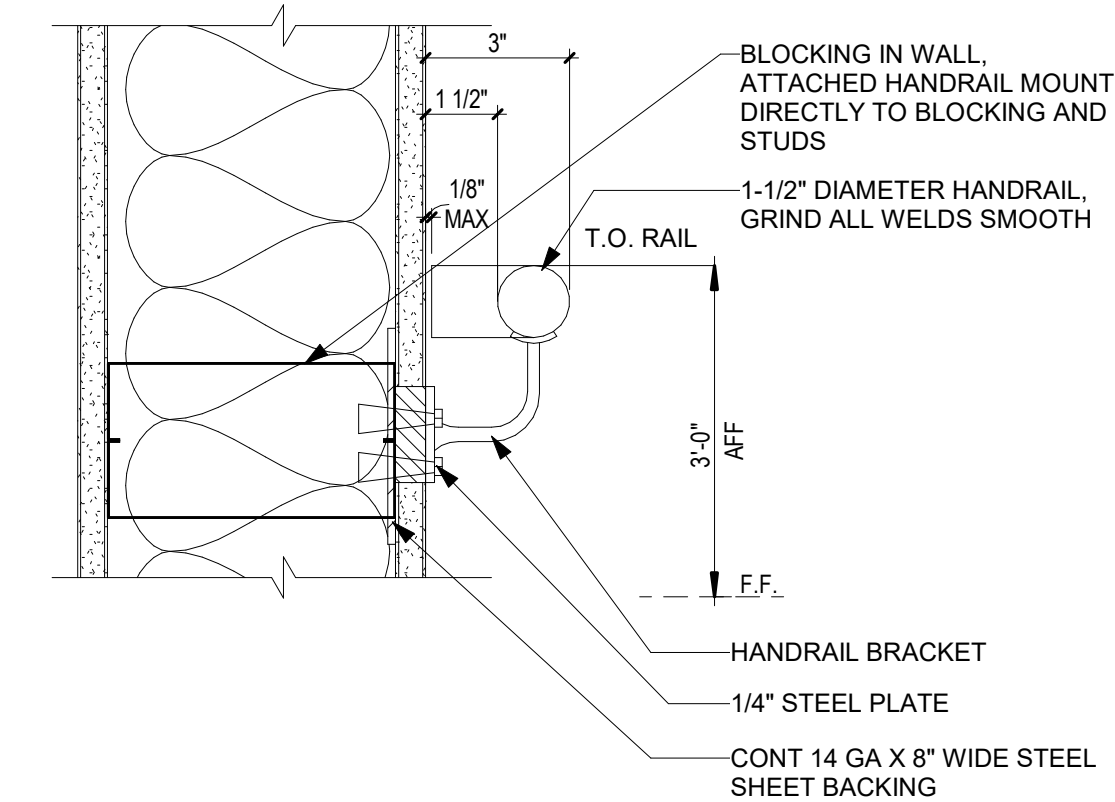
17 INTERIOR DOOR THRESHOLD - CPT/TILE
A5.30 3" = 1'-0"



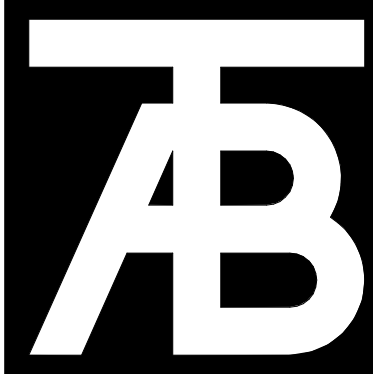
18 BRICK OUTSIDE CORNER
A5.30 1 1/2" = 1'-0"



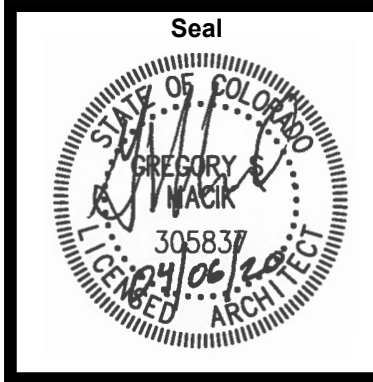
19 BRICK INSIDE CORNER
A5.30 1 1/2" = 1'-0"



21 HANDRAIL TO WALL
A5.30 3" = 1'-0"



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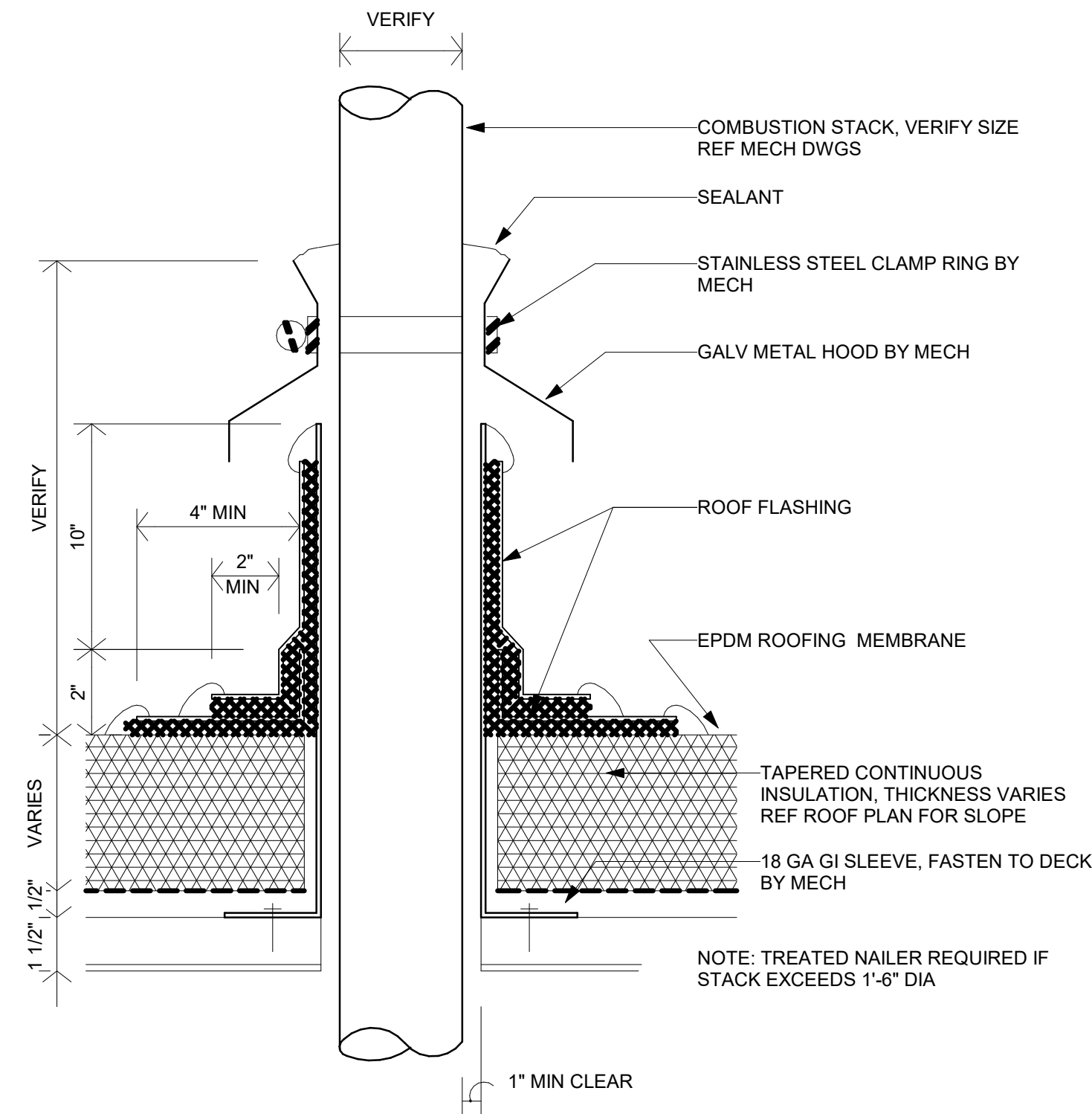
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No	Description	Date

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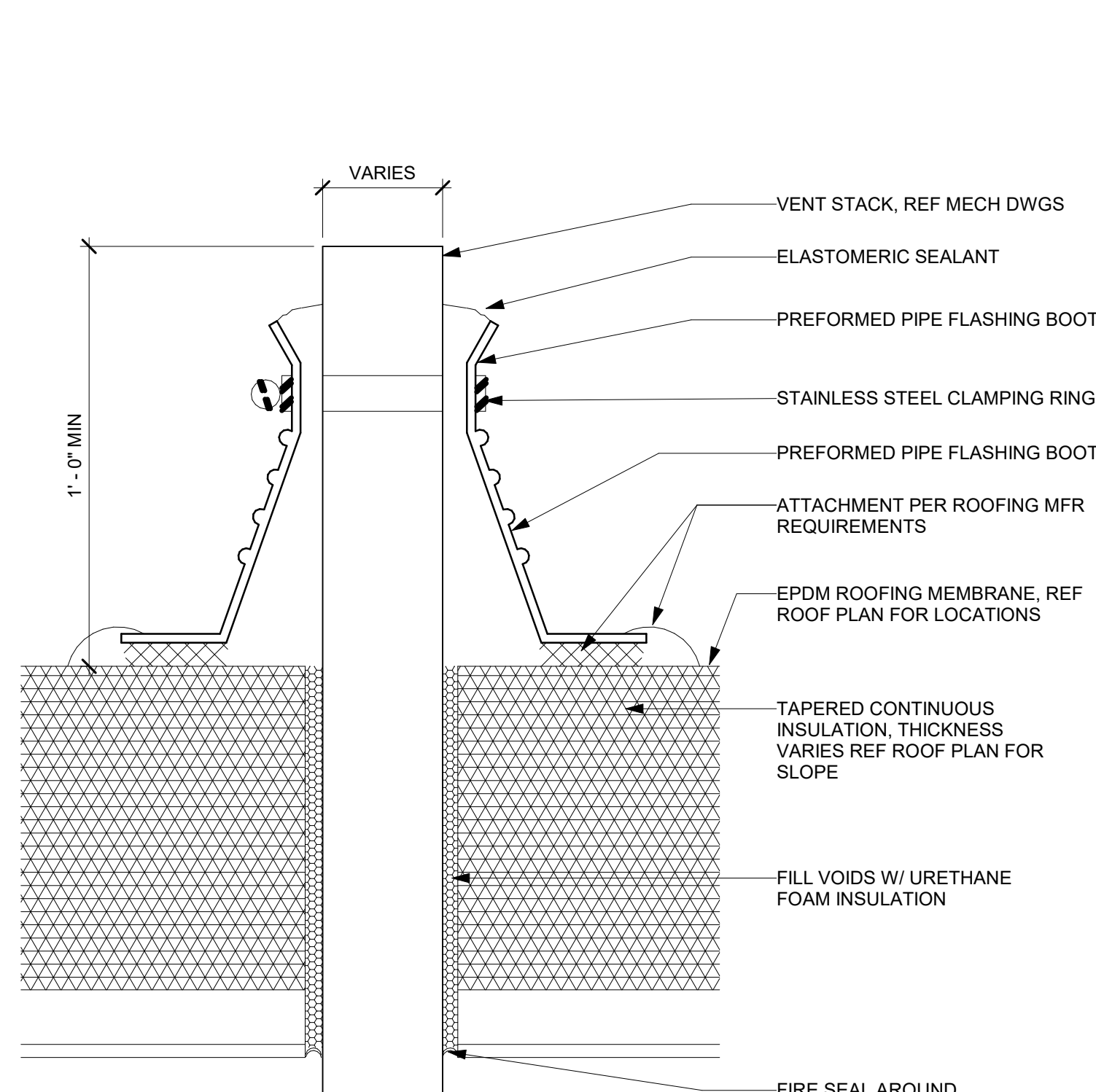
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**Wall/
Transition
Details**

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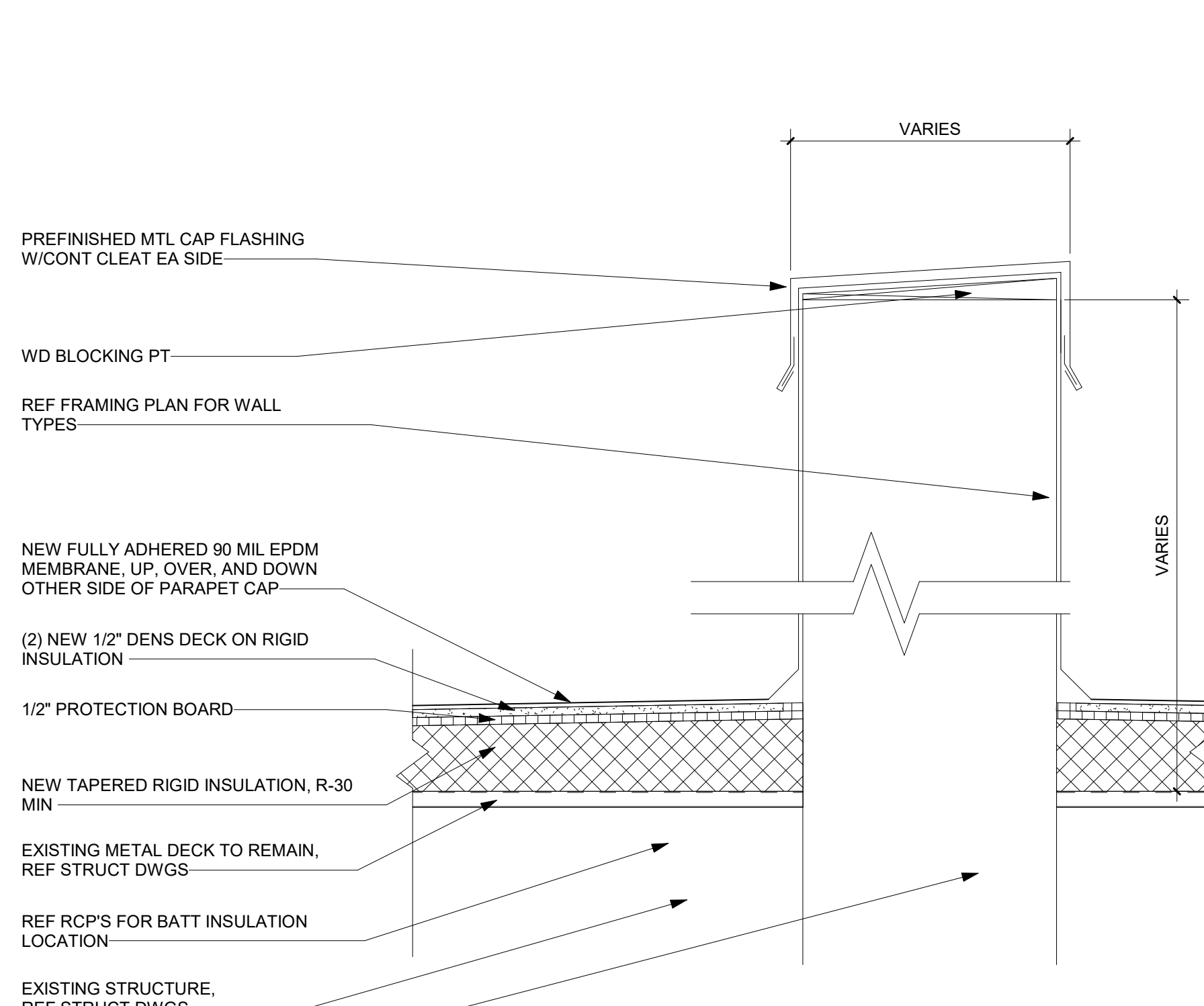
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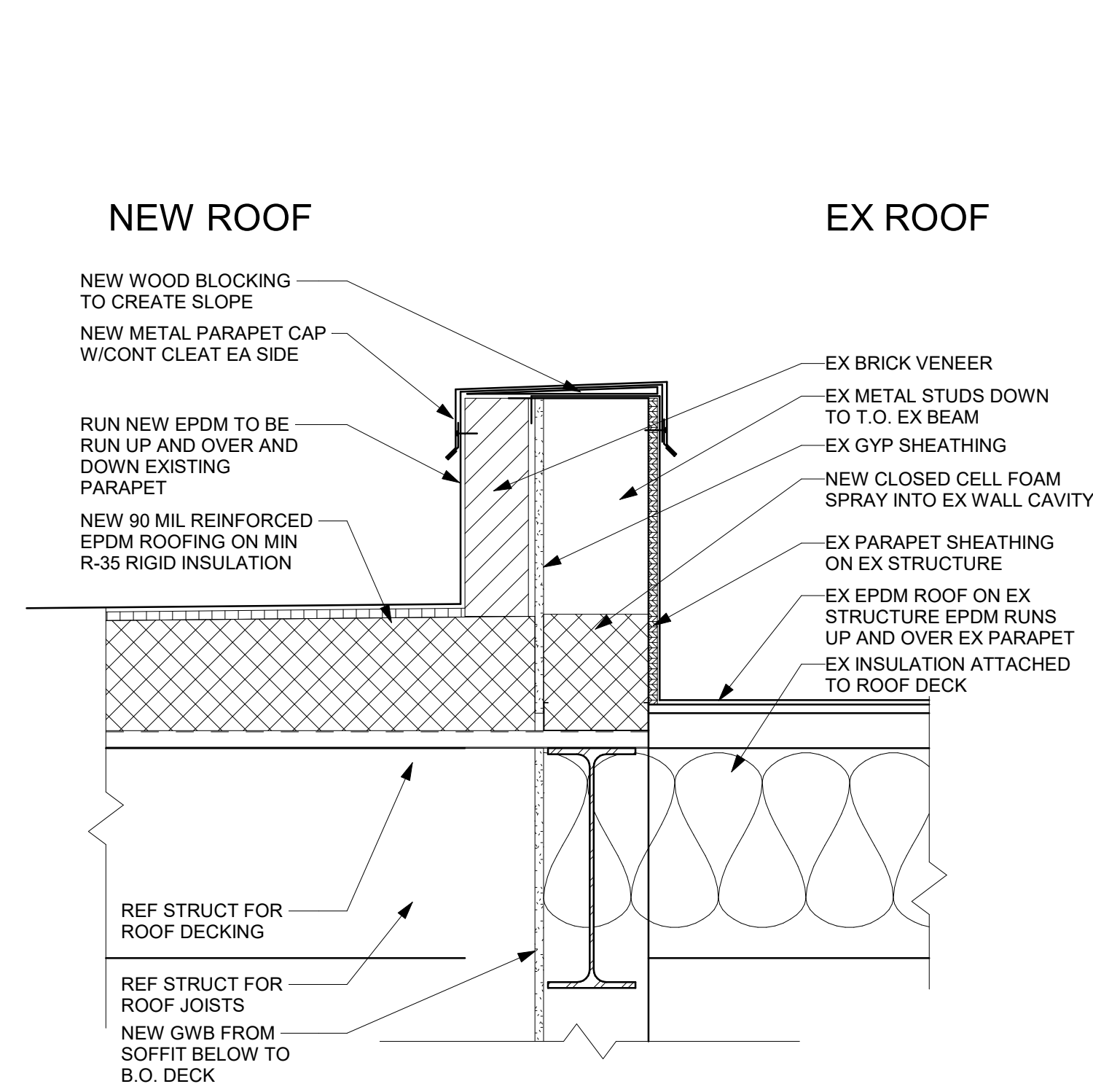
1 BOILER FLUE ROOF PENETRATION
A5.40 3' = 1'-0"



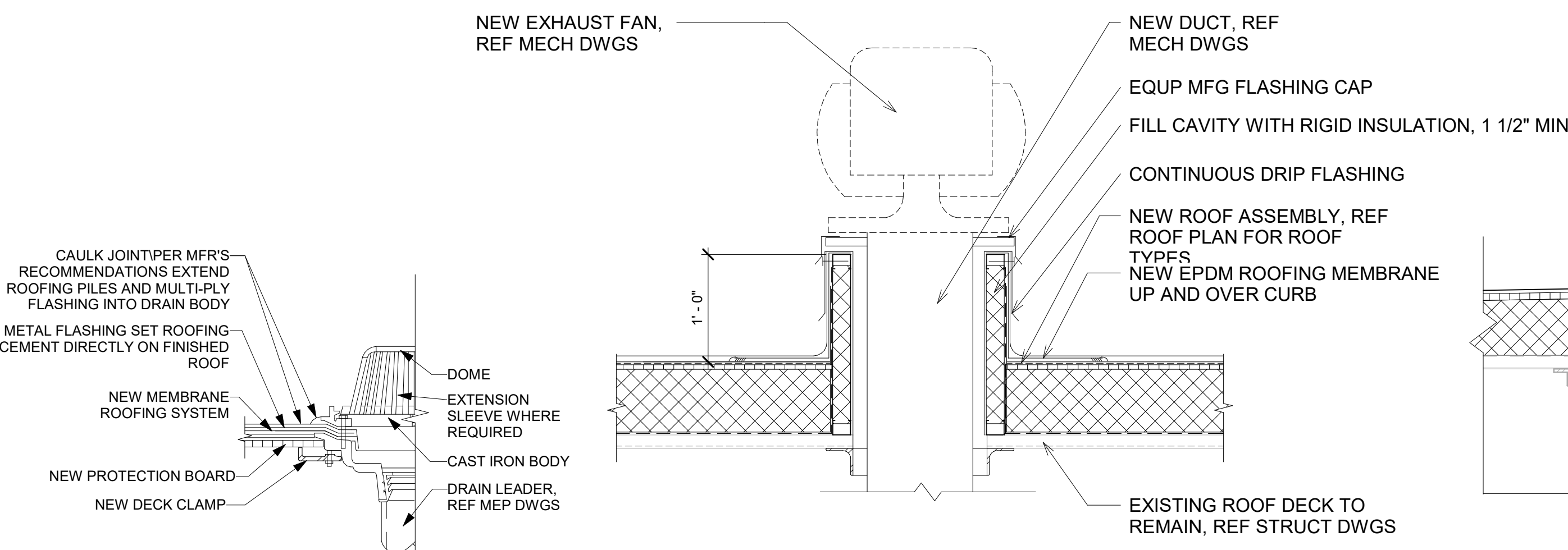
2 PIPE PENETRATION AT MEMBRANE ROOFING
A5.40 3' = 1'-0"



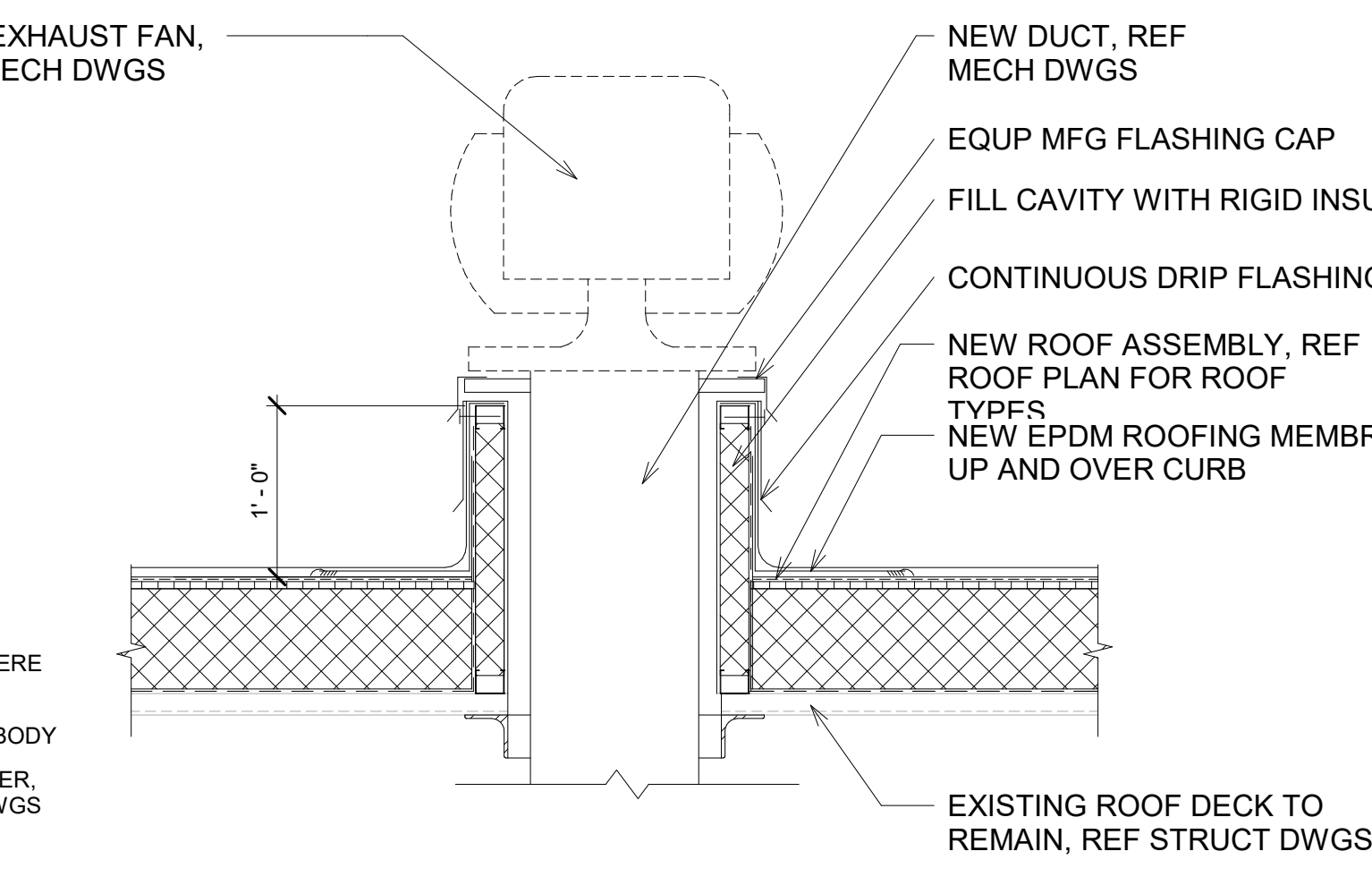
3 STANDARD OFFSET PARAPET
A5.40 1 1/2" = 1'-0"



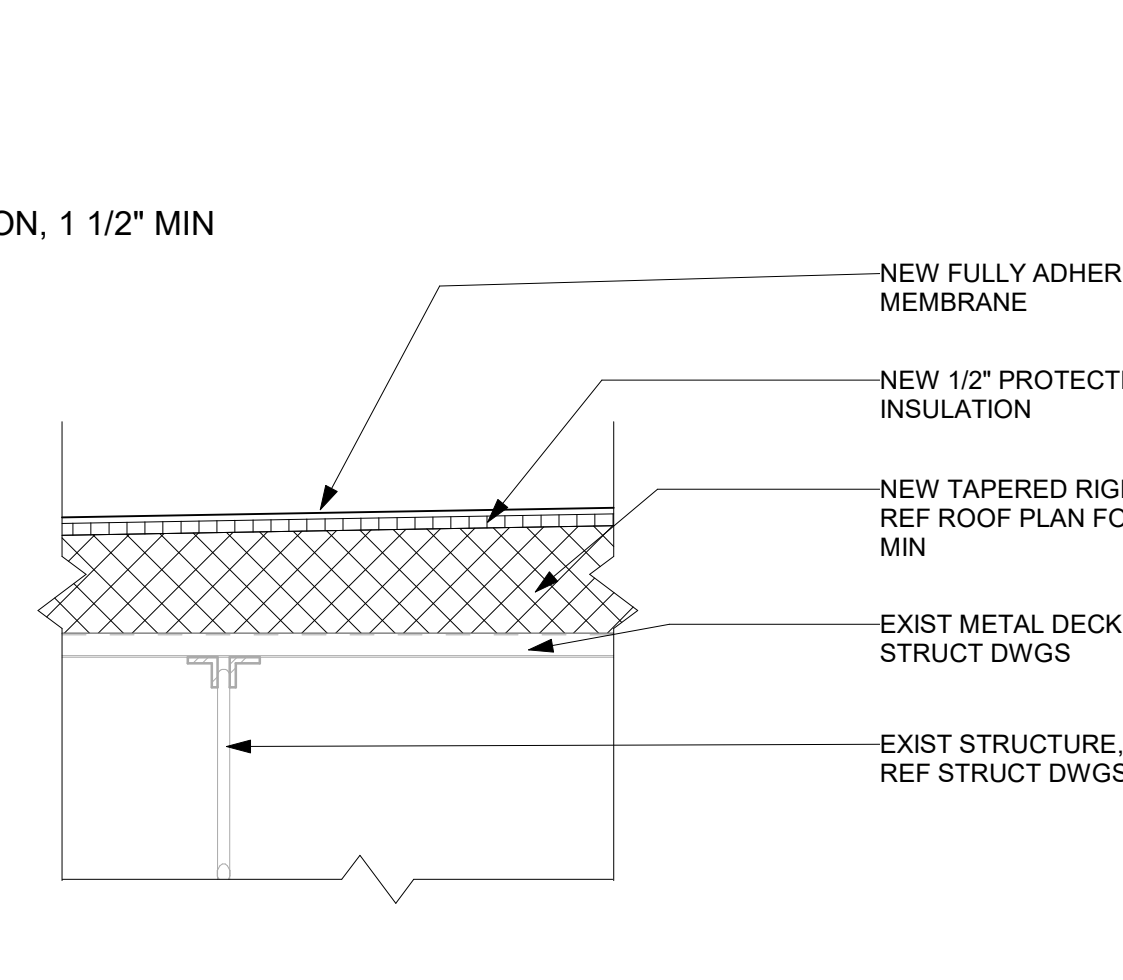
4 EX ROOF TO NEW ROOF
A5.40 1 1/2" = 1'-0"



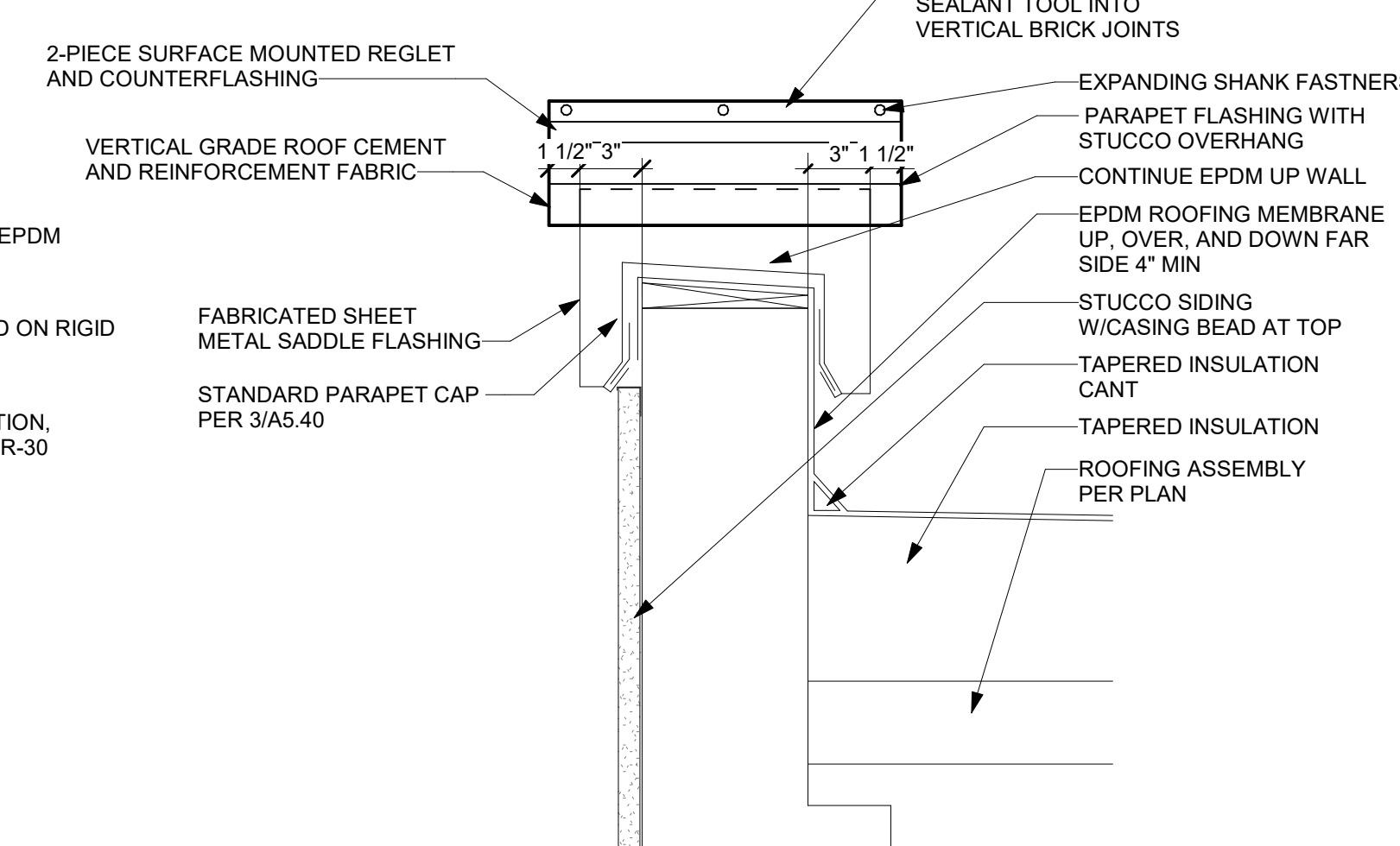
5 NEW ROOF DRAIN DETAIL
A5.40 1 1/2" = 1'-0"



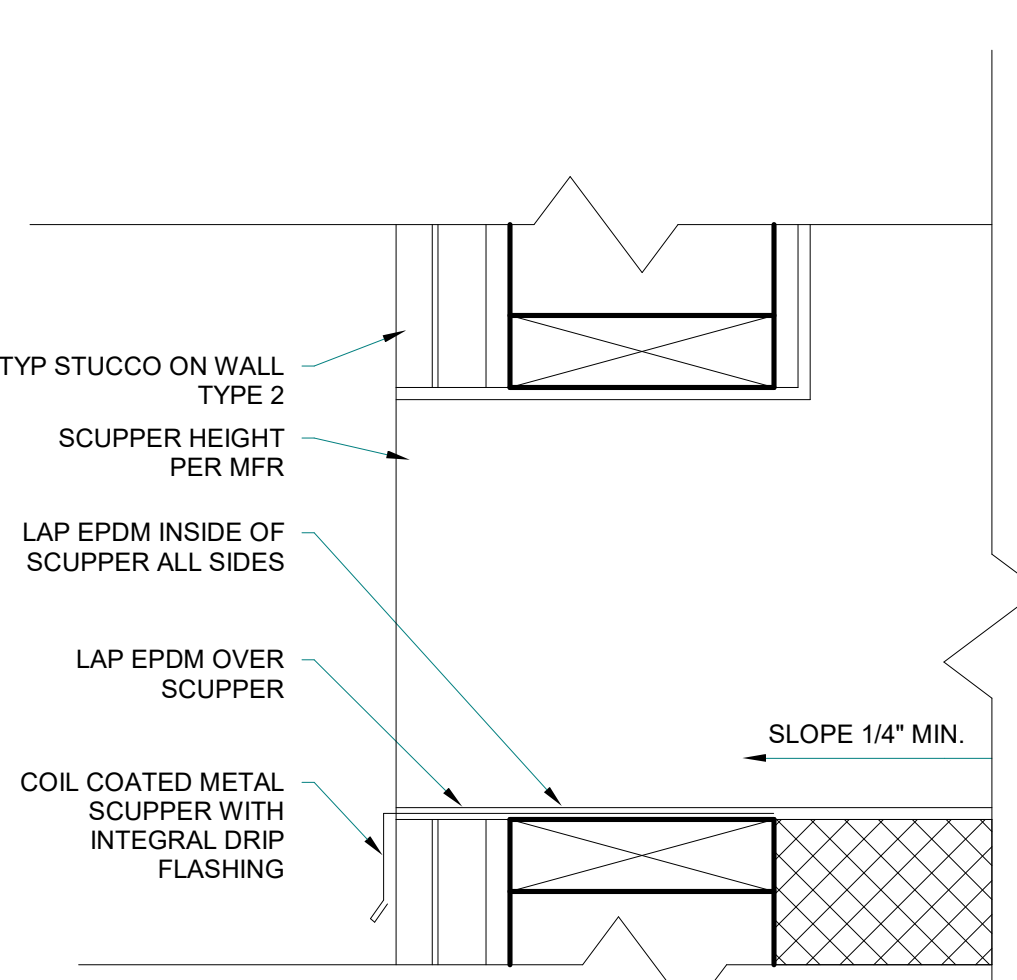
6 TYP EXHAUST FAN DETAIL
A5.40 1" = 1'-0"



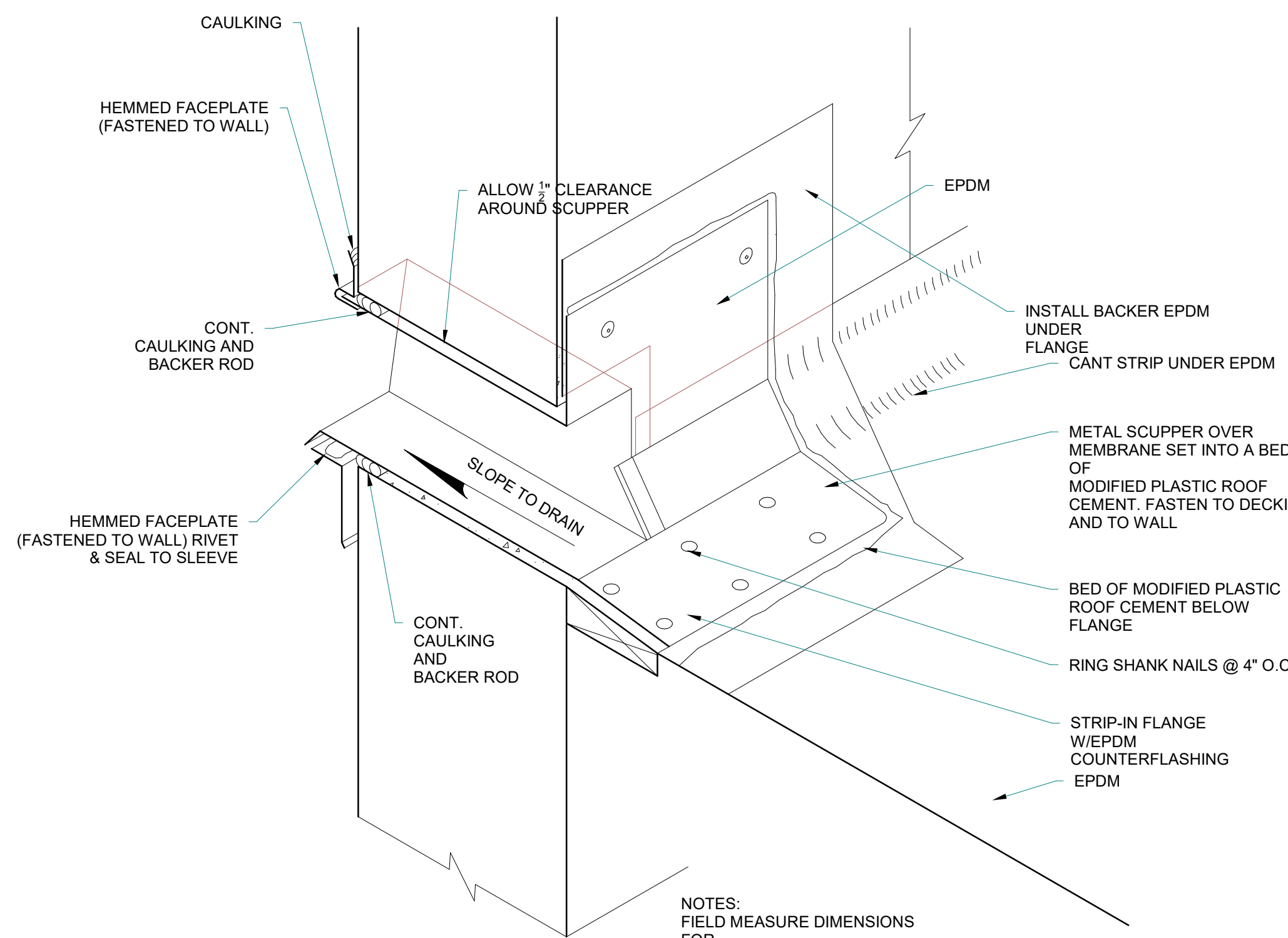
7 TYPICAL EPDM ROOF ASSEMBLY
A5.40 1 1/2" = 1'-0"



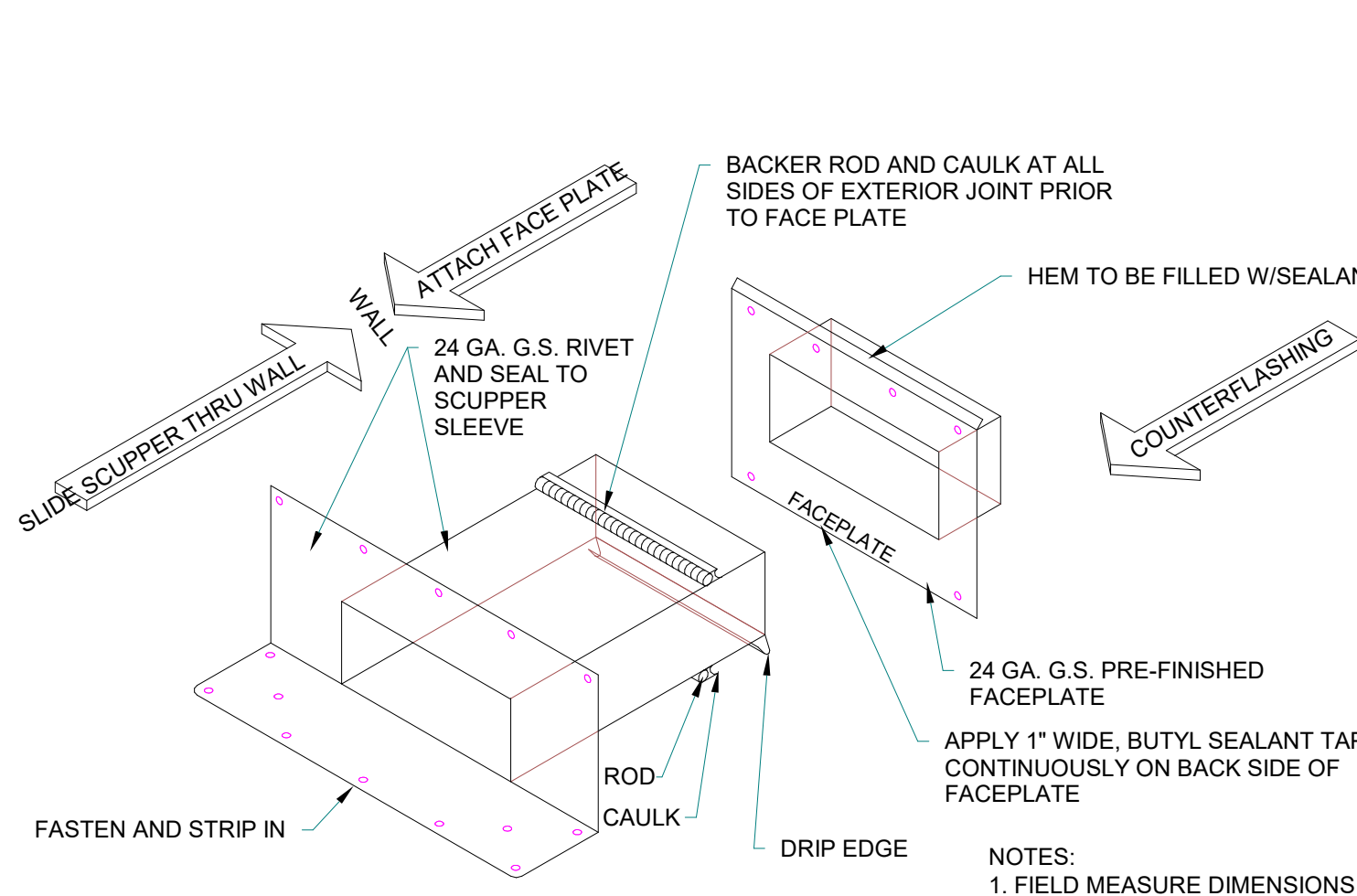
8 PARAPET CAP @ STUCCO
A5.40 1 1/2" = 1'-0"



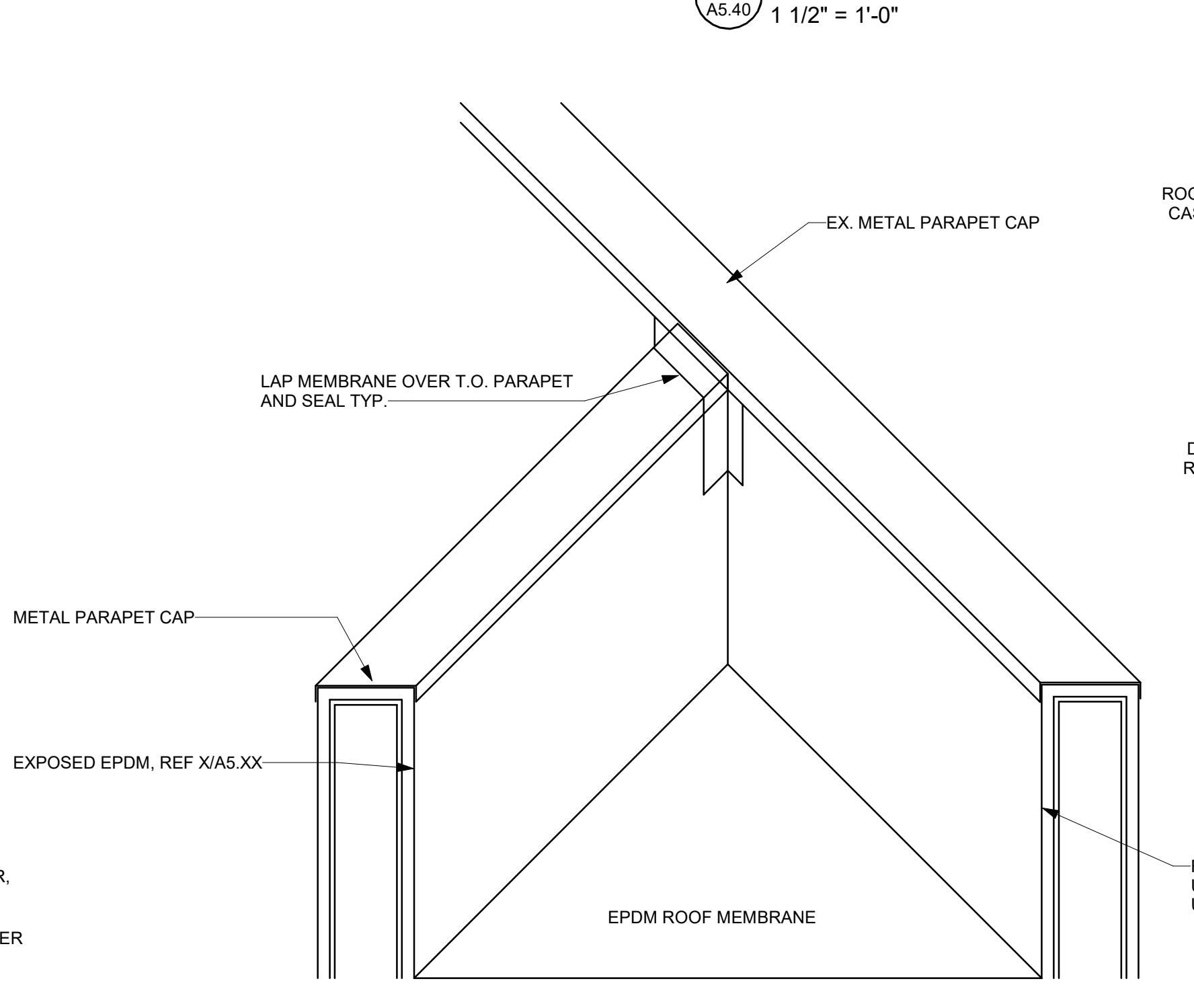
9 SCUPPER DETAIL - STUCCO
A5.40 3' = 1'-0"



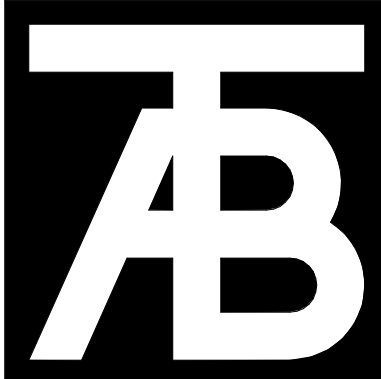
10 SCUPPER
A5.40 1 1/2" = 1'-0"



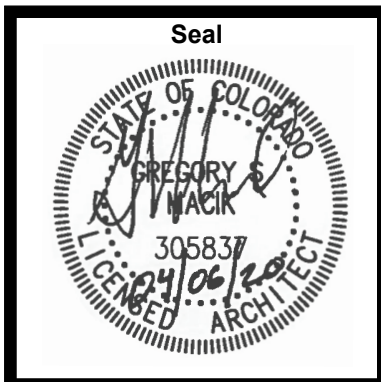
11 EX PARAPET TO NEW PARAPET
A5.40 3/4" = 1'-0"



12 ROOF AND OVERFLOW DRAINS
A5.40 1 1/2" = 1'-0"



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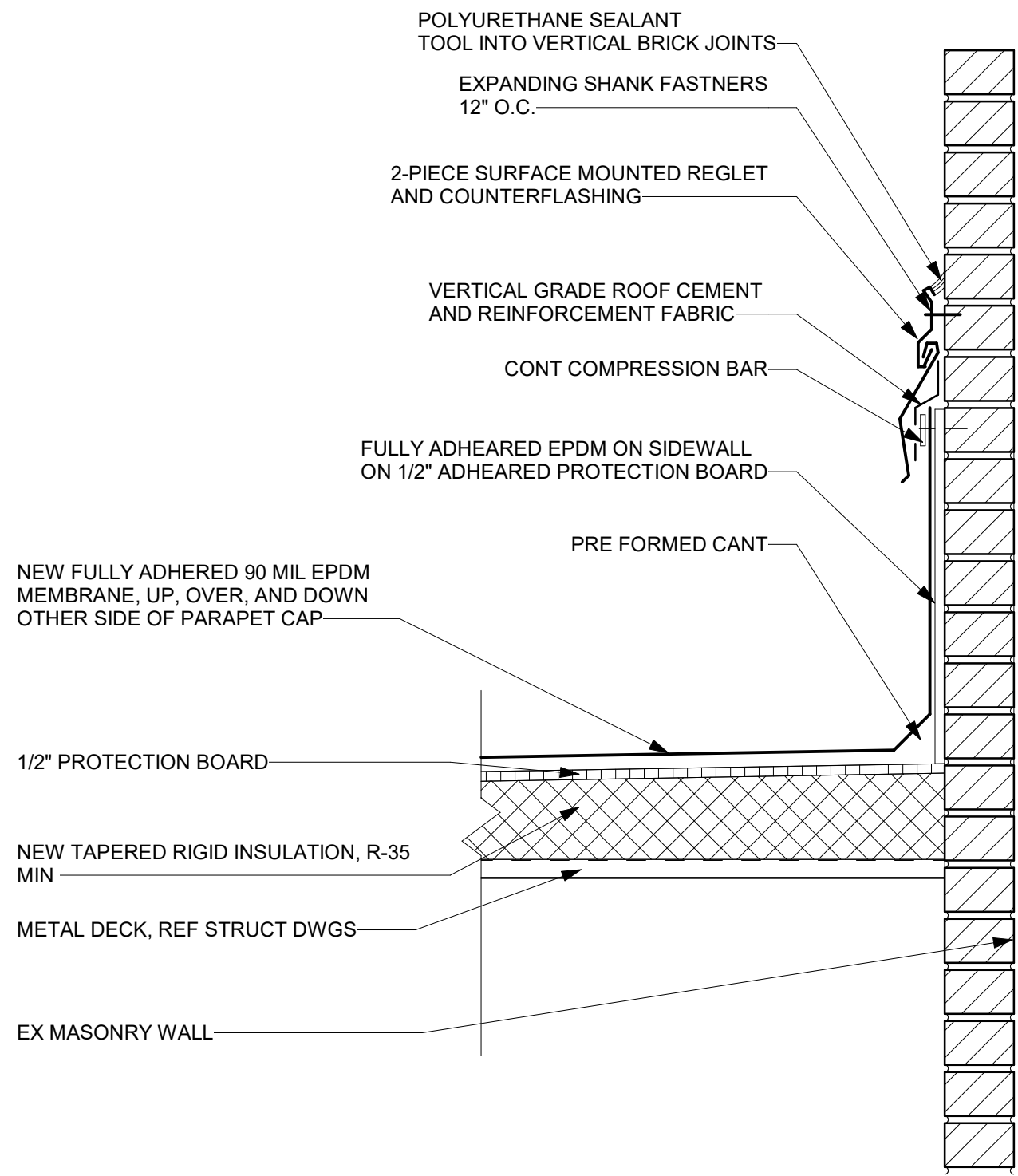
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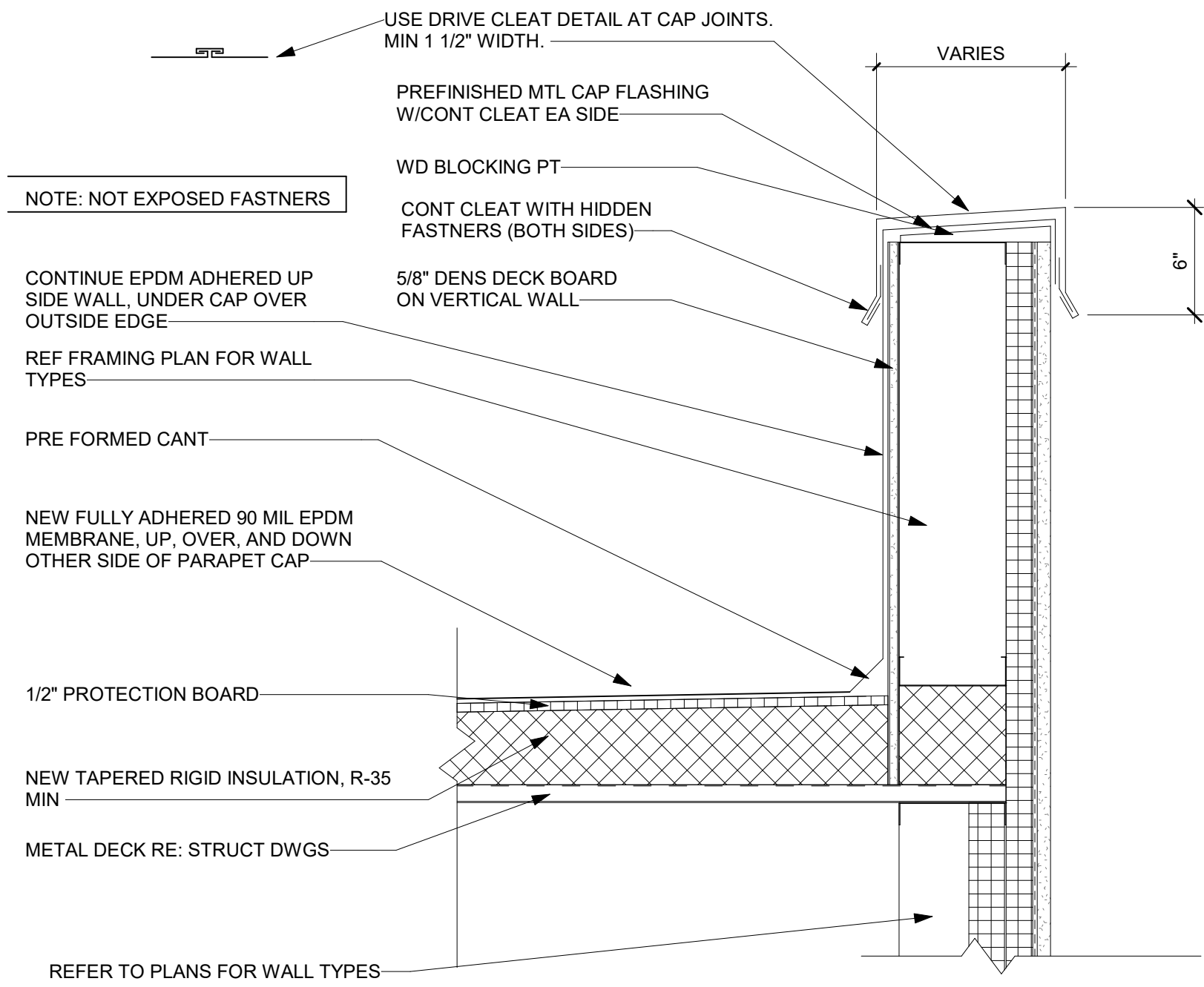
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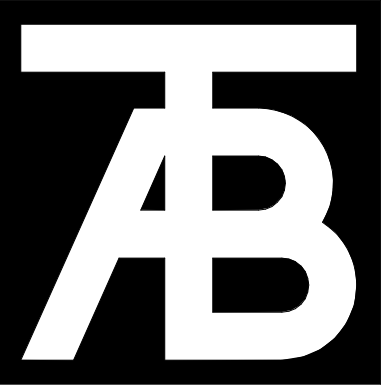


1 TYPICAL EPDM TO SIDEWALL
A5.41 1 1/2" = 1'-0"

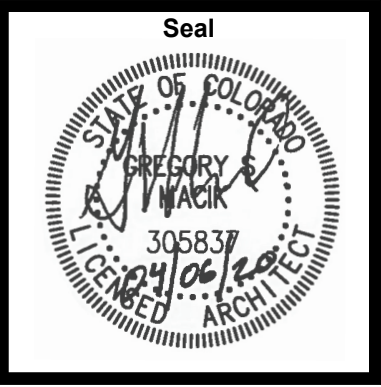


2 TYPICAL PARAPET
A5.41 1 1/2" = 1'-0"

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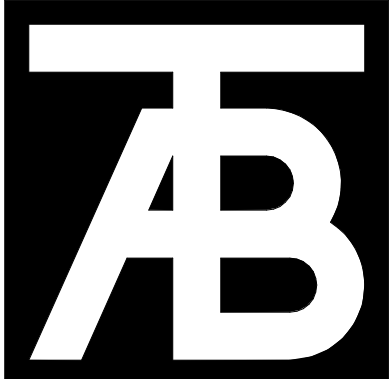
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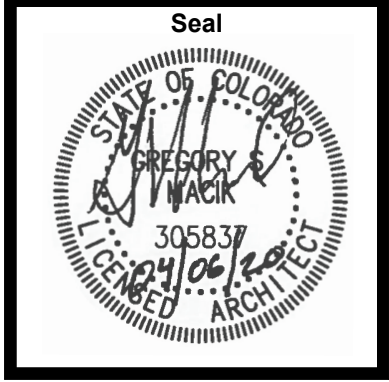
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Roof Details

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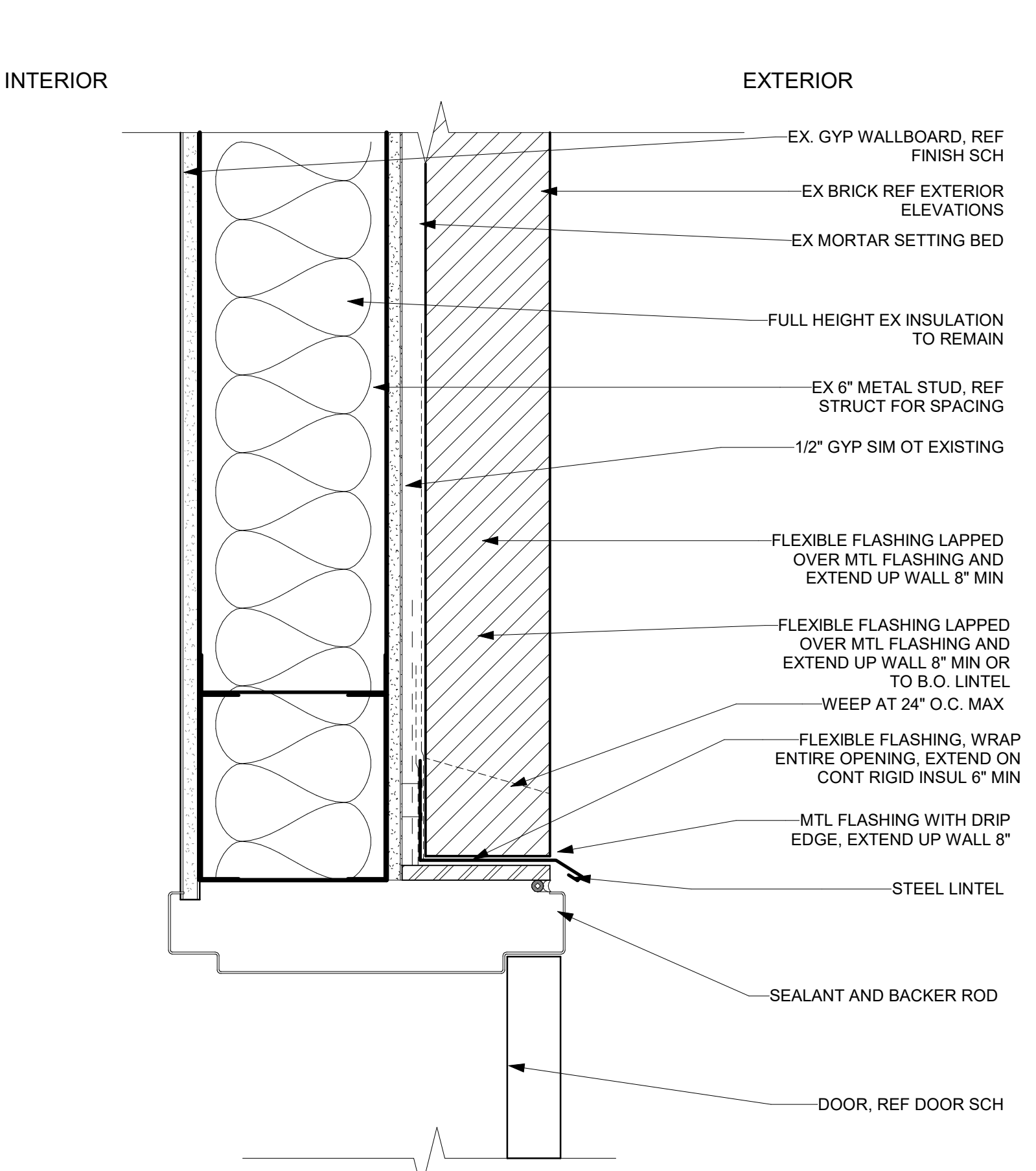
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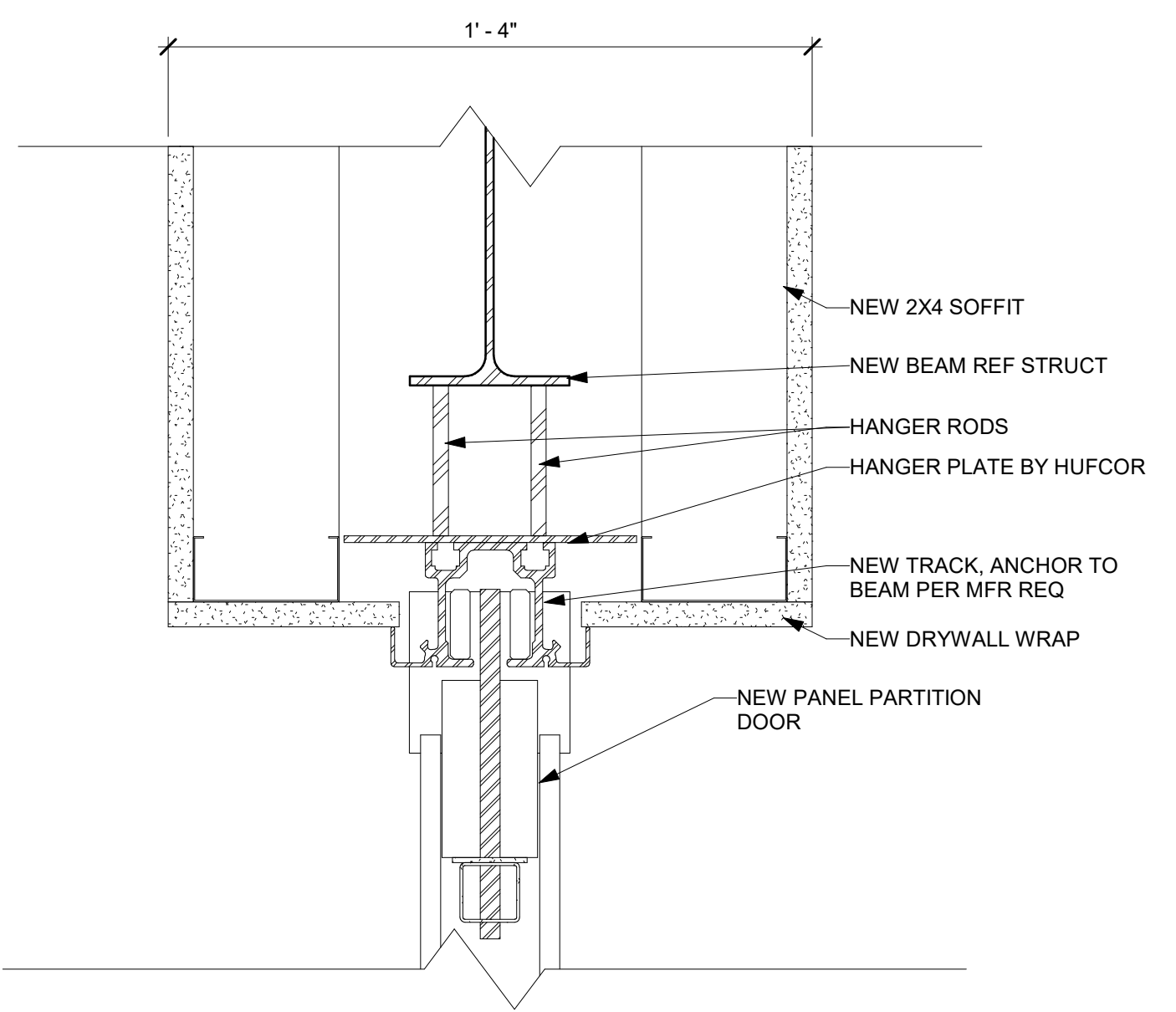
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Door Details

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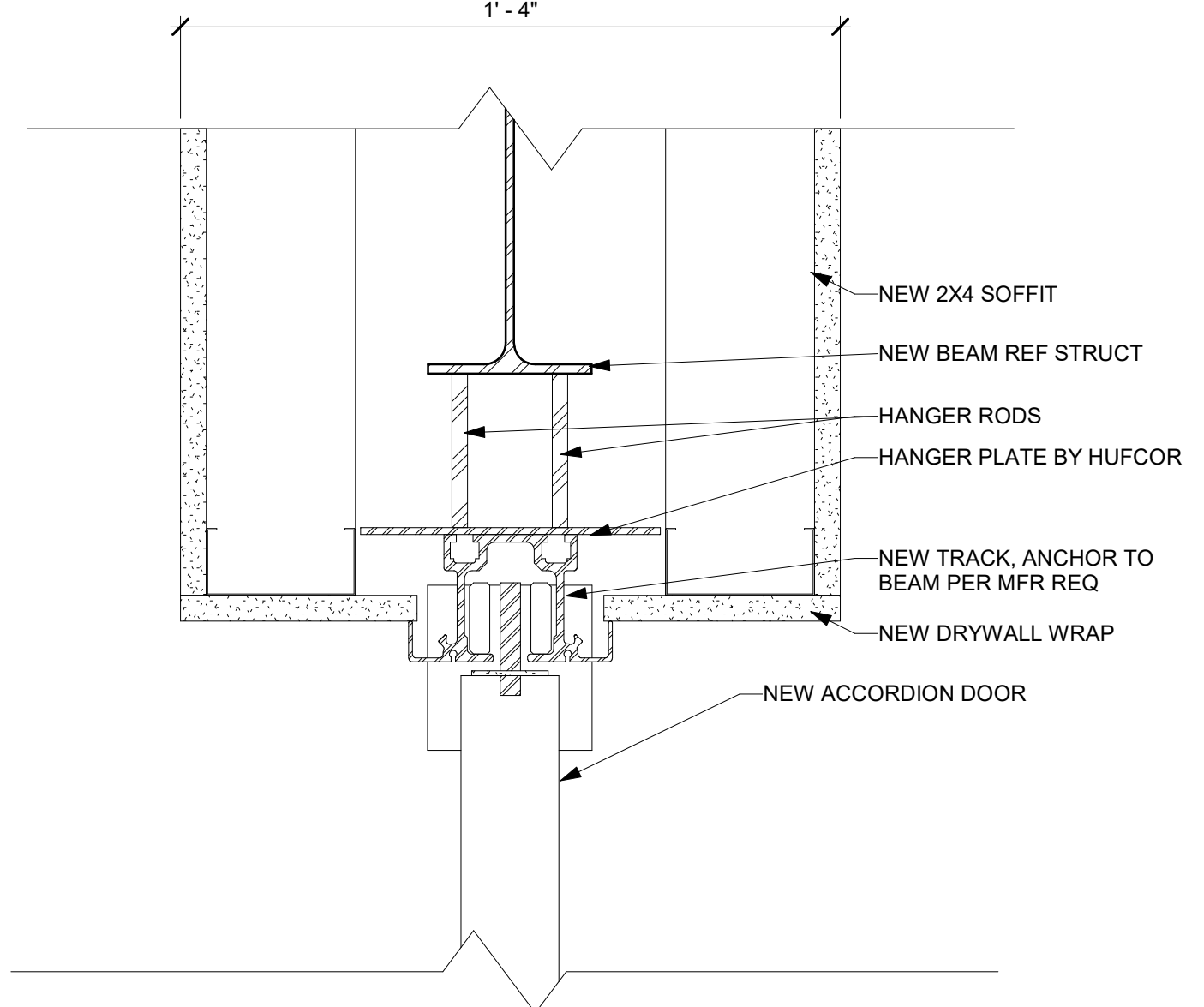
Sheet No:
A5.60



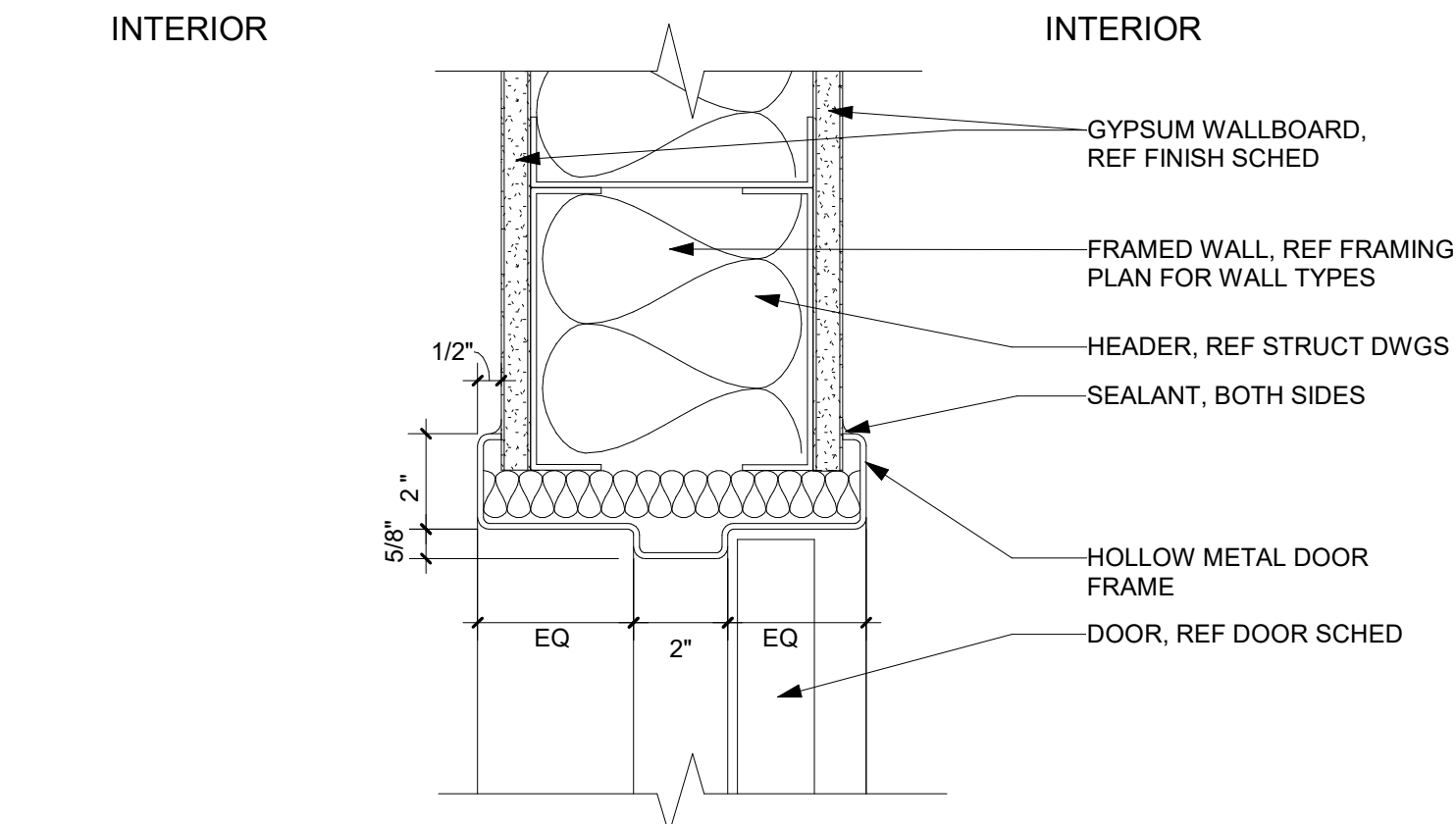
8 HM EXT DOOR
A5.60 3" = 1'-0"



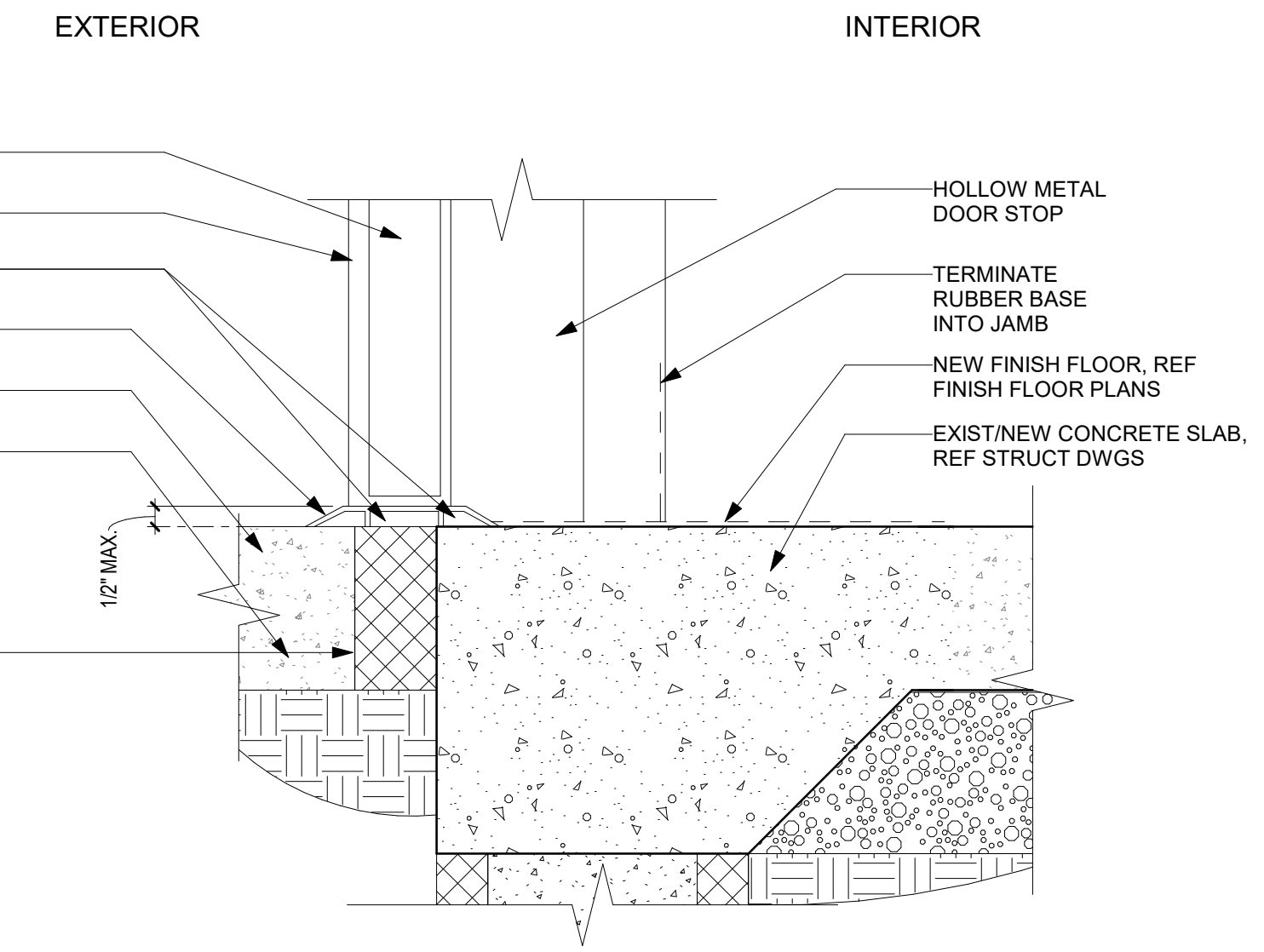
12 PANEL PARTITION DOOR HEAD
A5.60 3" = 1'-0"



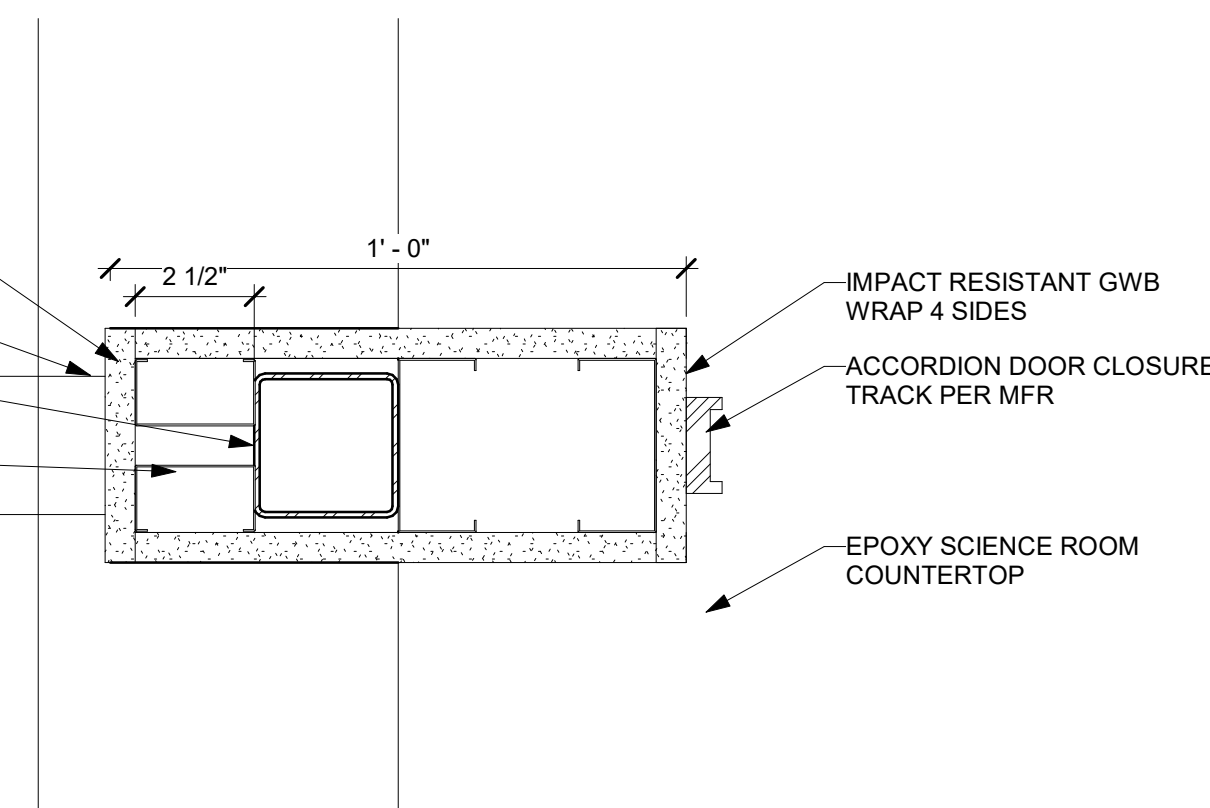
15 ACCORDION PARTITION DOOR HEAD
A5.60 3" = 1'-0"



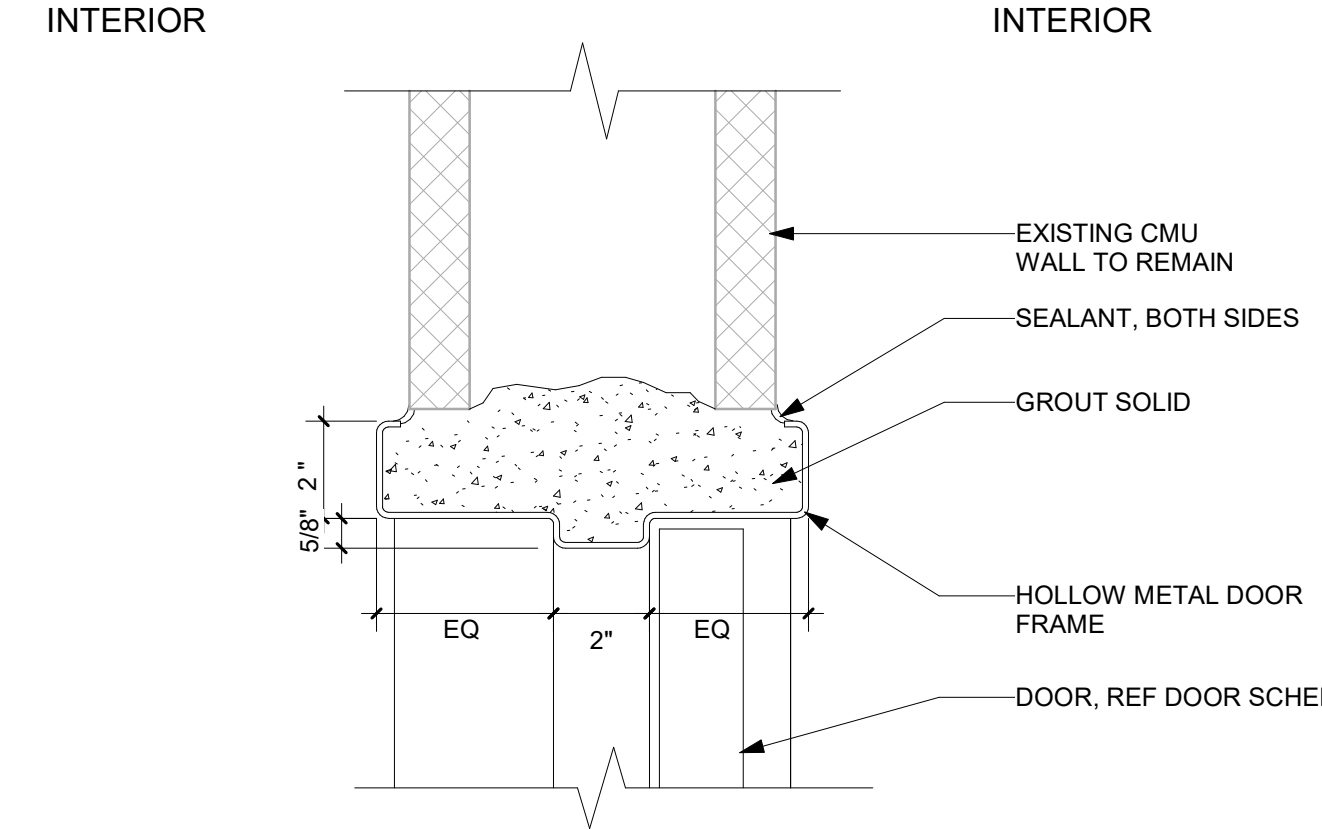
4 TYP INTERIOR DOOR HEAD/ JAMB DETAIL
A5.60 3" = 1'-0"



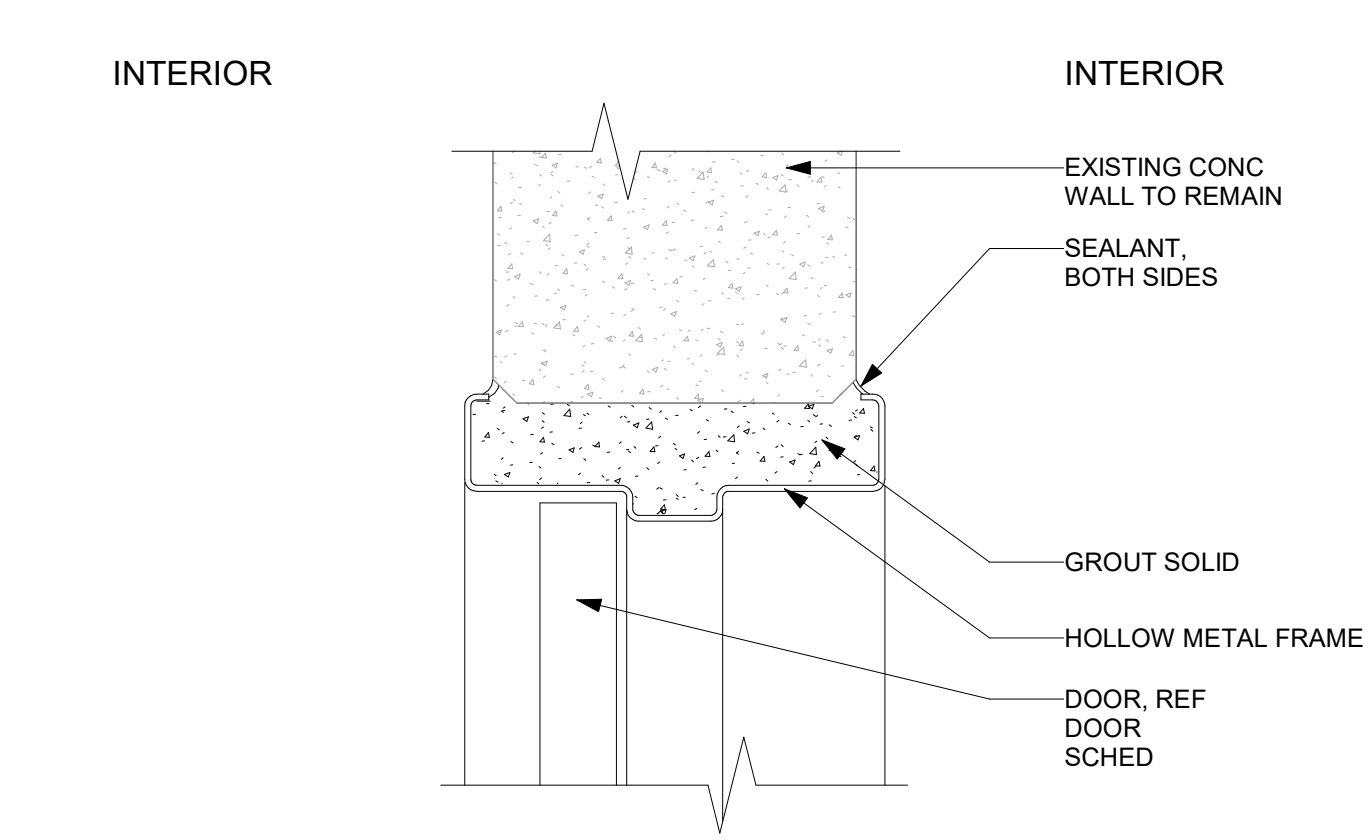
7 TYP DOOR SILL
A5.60 3" = 1'-0"



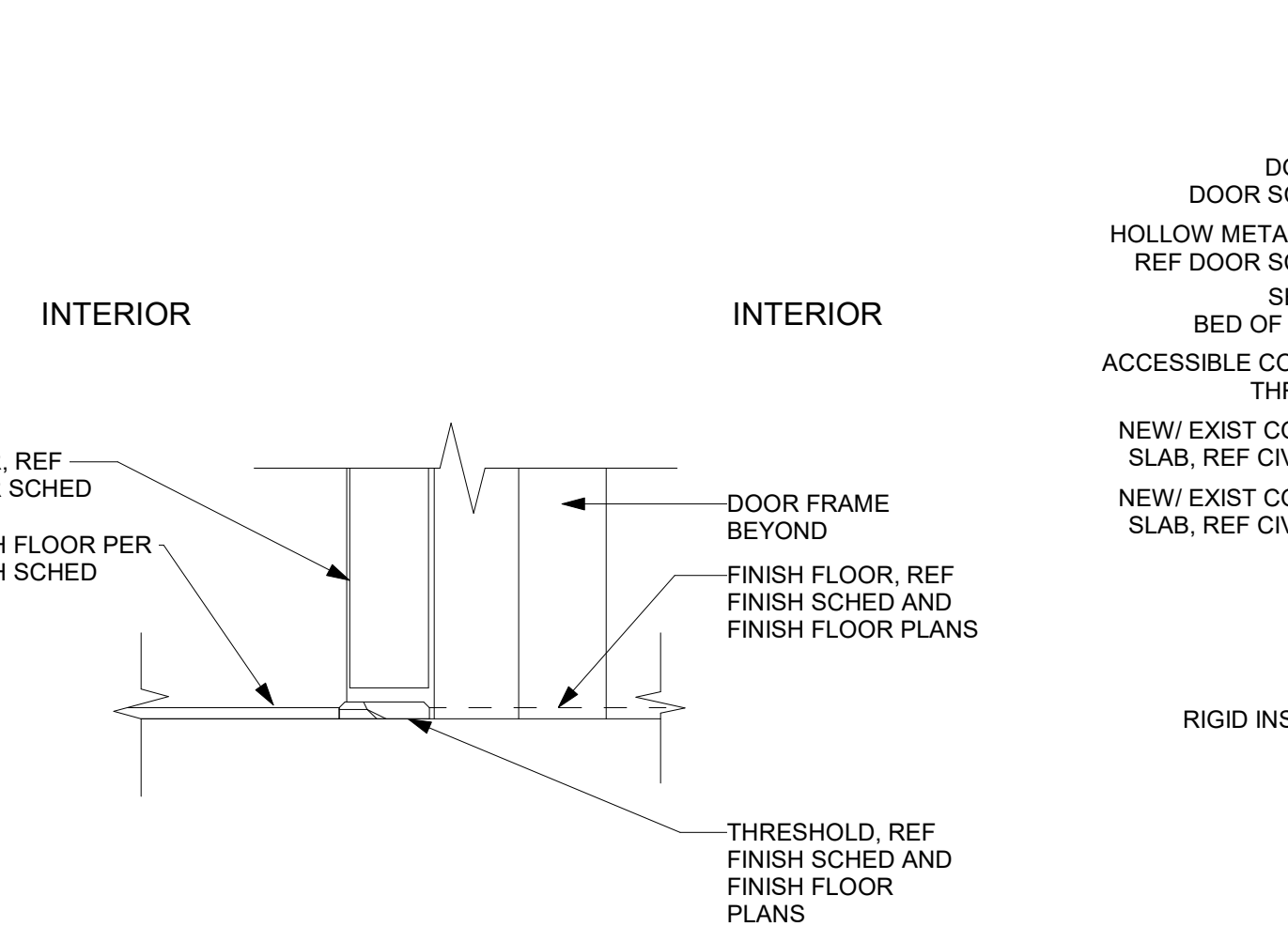
11 7th GRADE SCIENCE DOOR JAMBS
A5.60 3" = 1'-0"



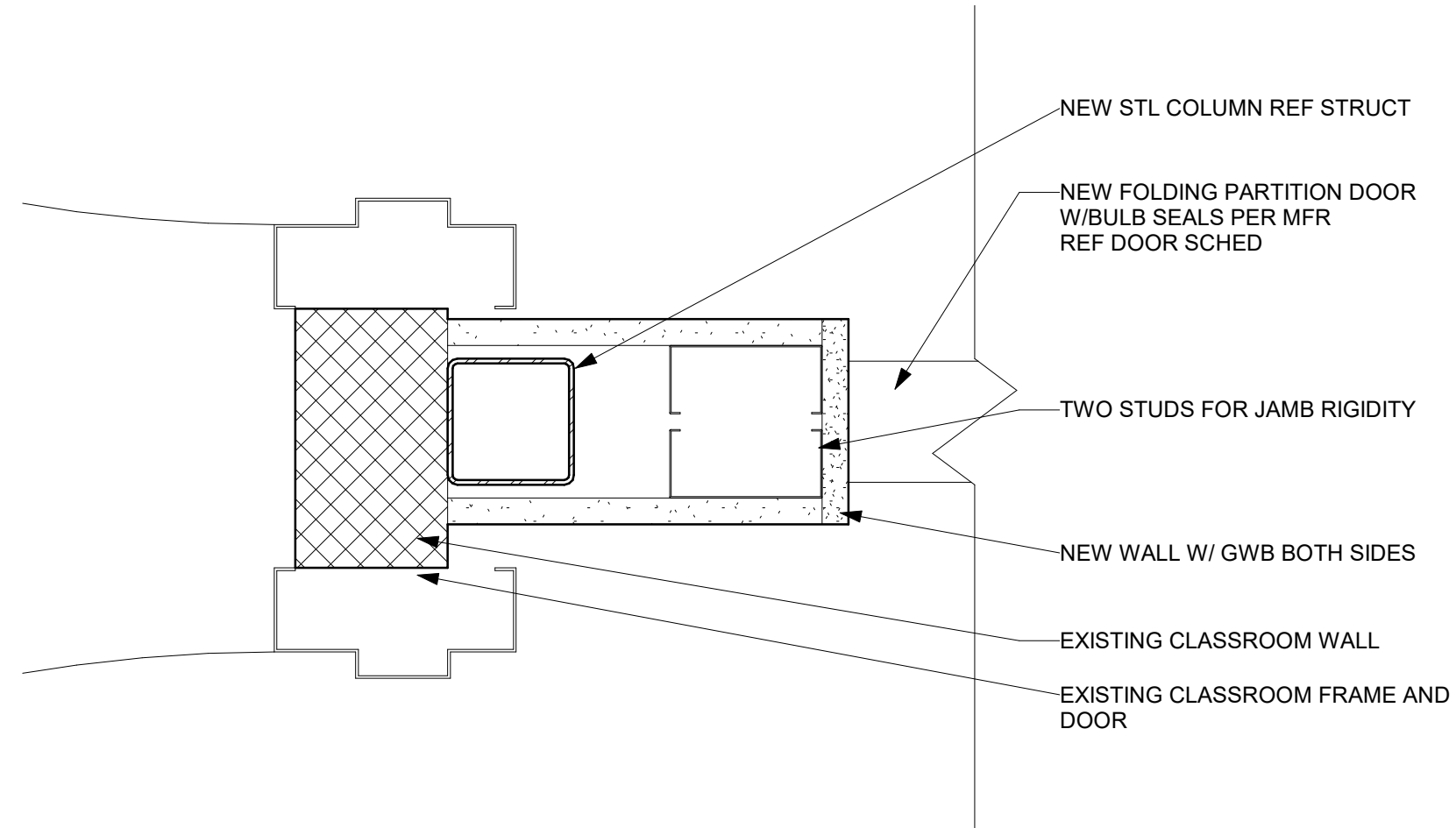
14 TYP CMU INTERIOR DOOR HEAD/JAMB DETAIL
A5.60 3" = 1'-0"



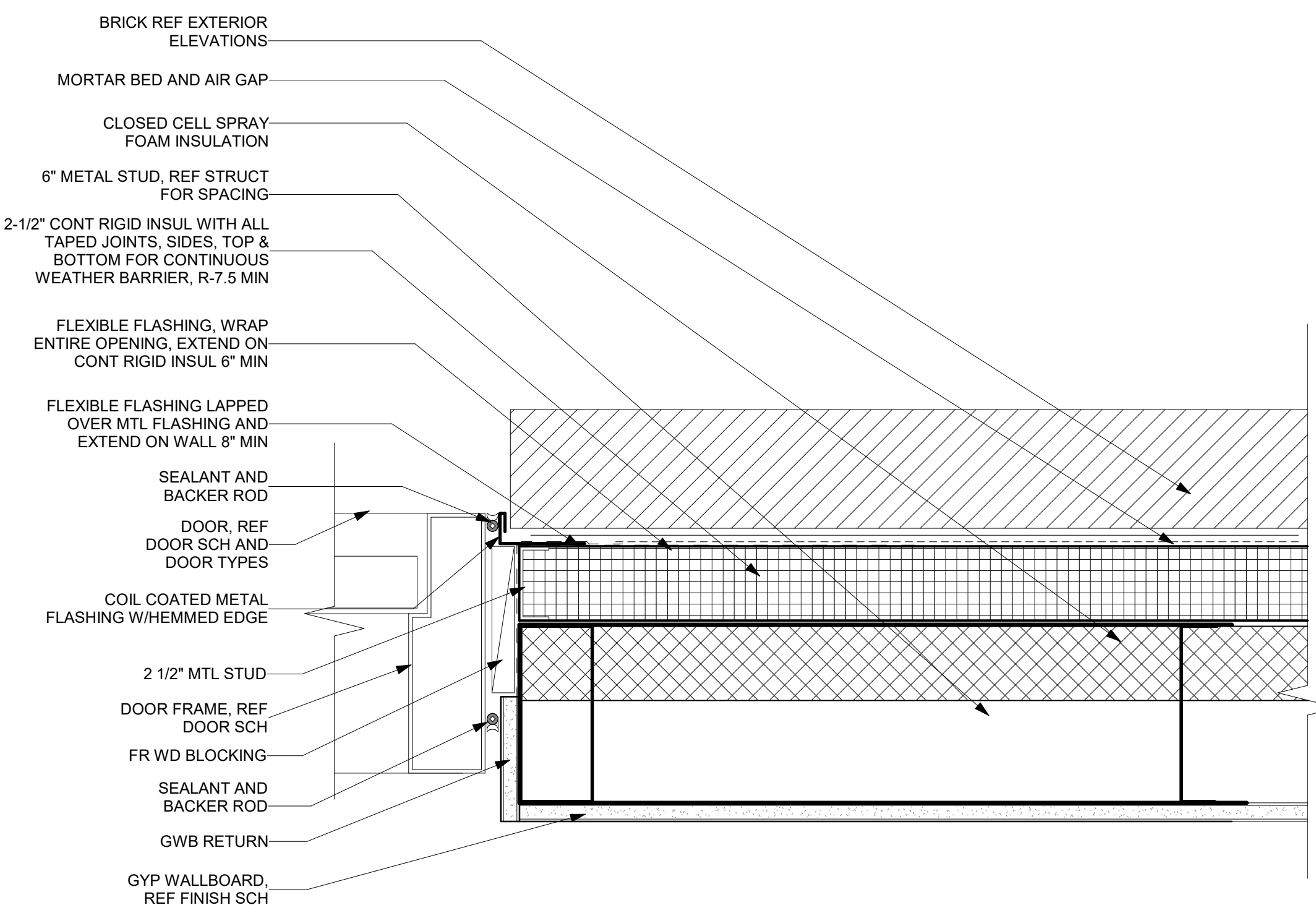
3 INTERIOR DOOR HEAD/ JAMB AT CONC
A5.60 3" = 1'-0"



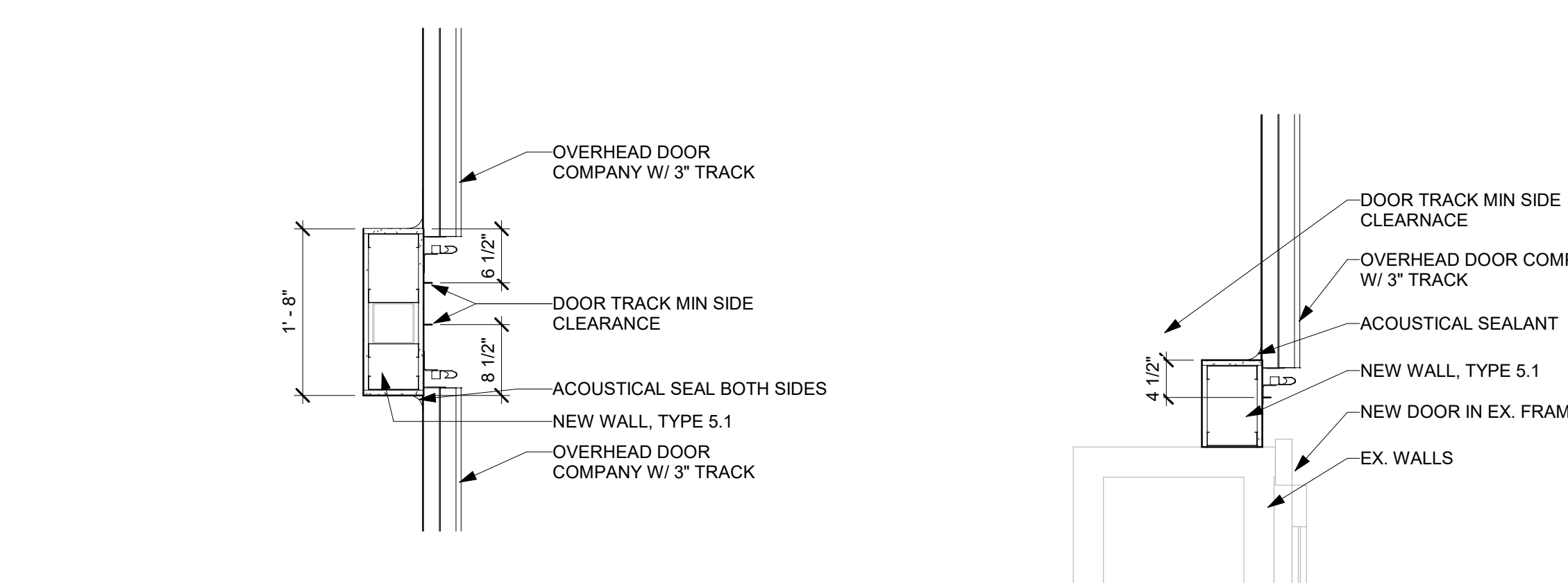
6 TYP INTERIOR DOOR THERSHOLD DETAIL
A5.60 3" = 1'-0"



10 PARTITION DOOR JAMB OPEN SIDE
A5.60 3" = 1'-0"

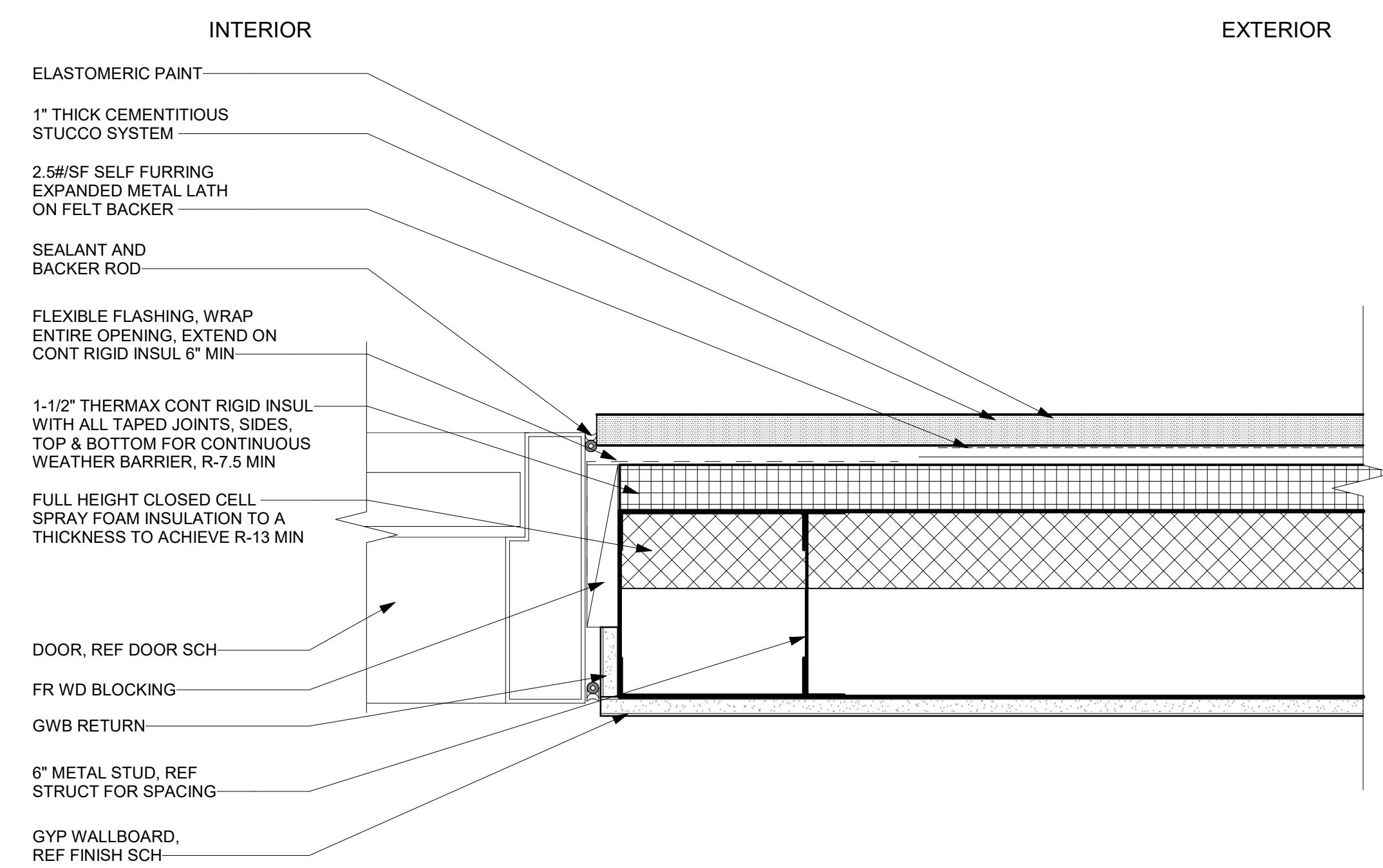


13 SF DOOR JAMB AT BRICK
A5.60 3" = 1'-0"

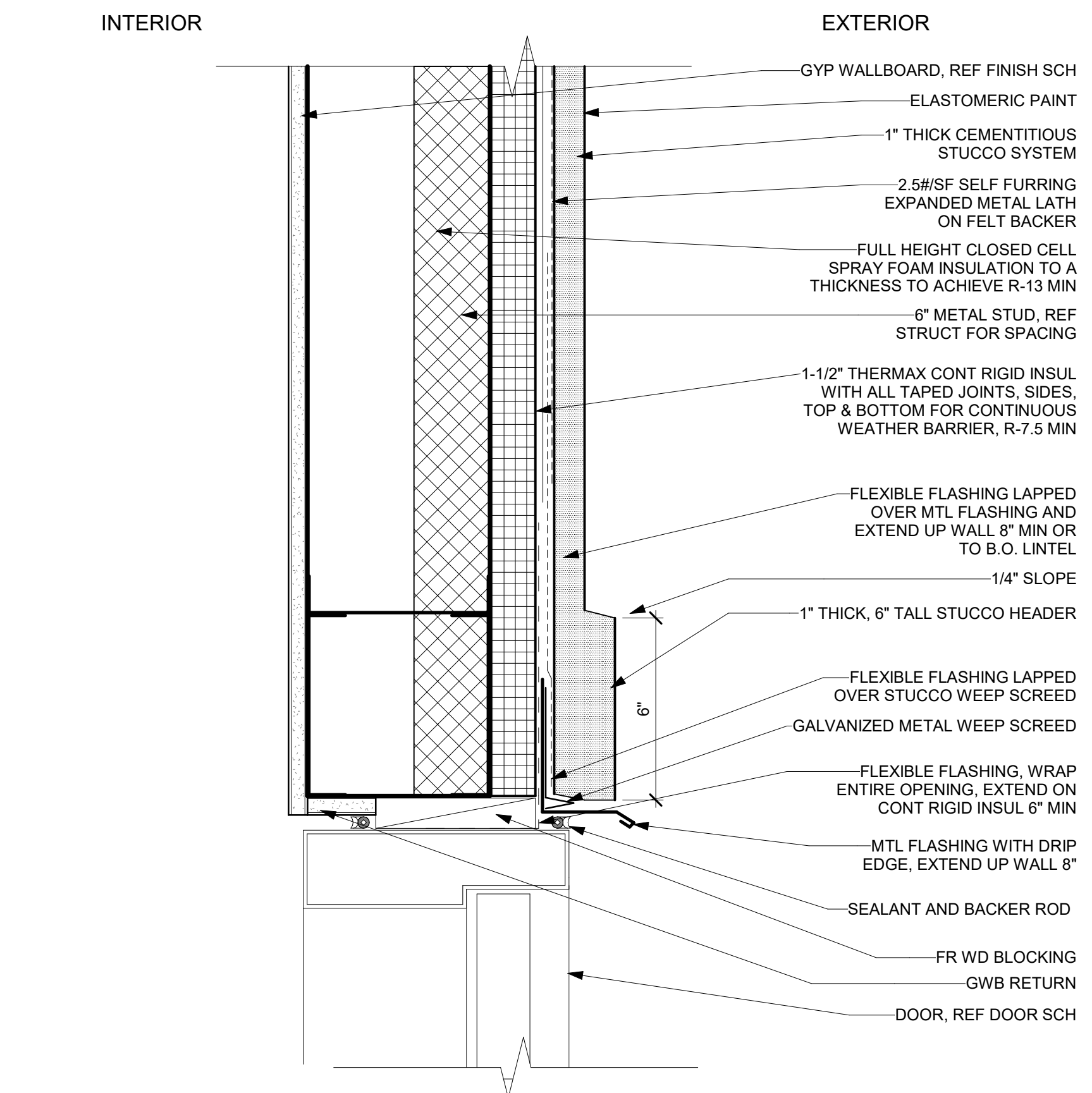


2 OVERHEAD DOOR SIDE
A5.60 3/4" = 1'-0"

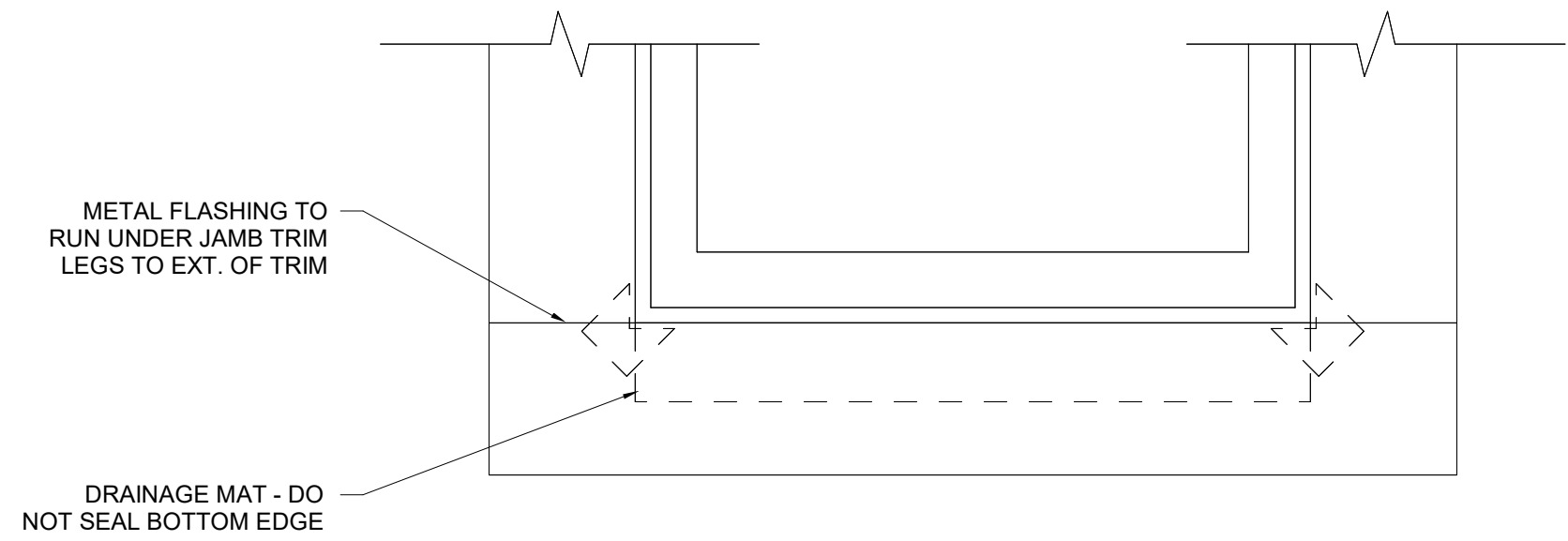
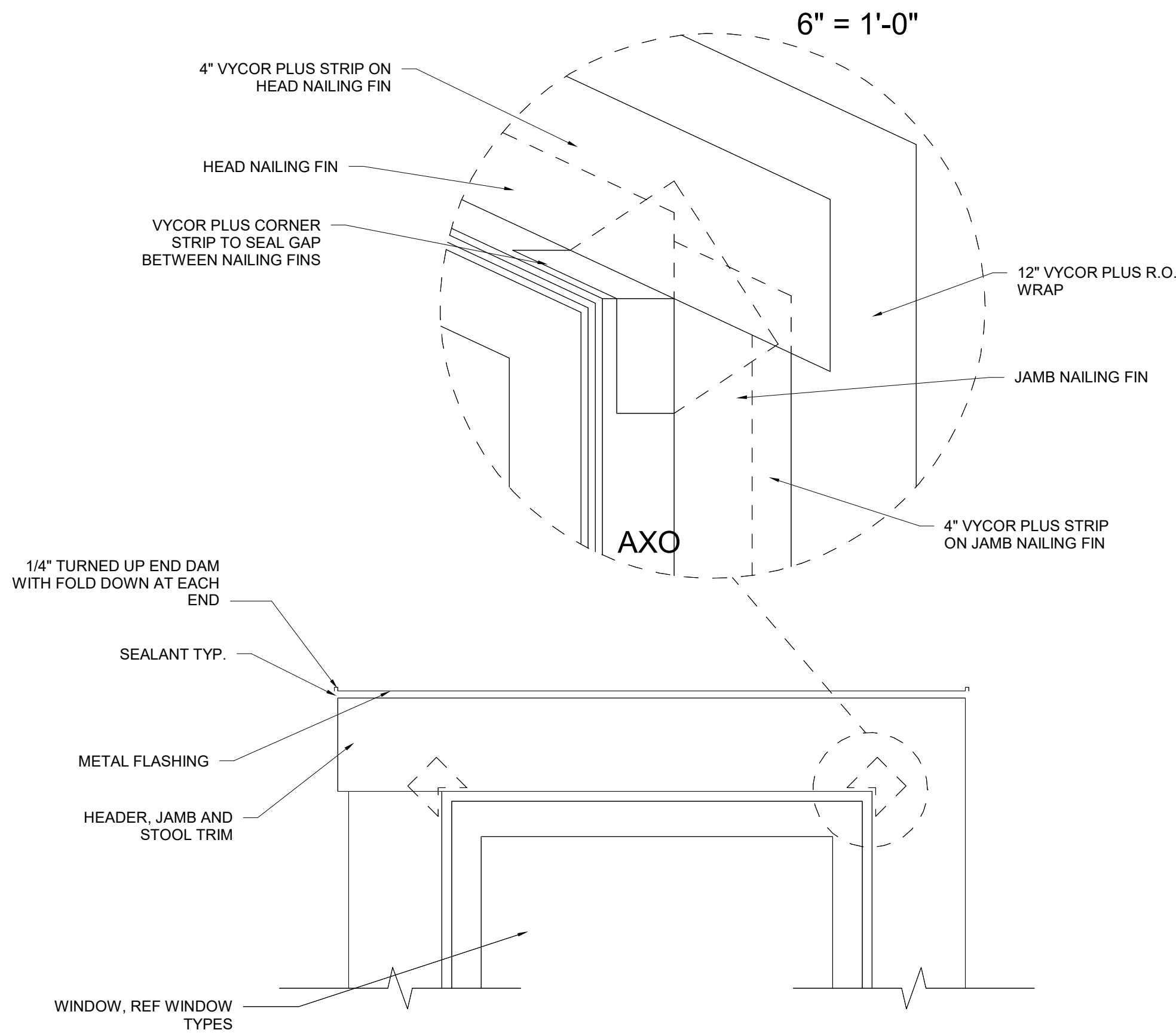
1 OVERHEAD DOOR SIDE TO SIDE
A5.60 3/4" = 1'-0"



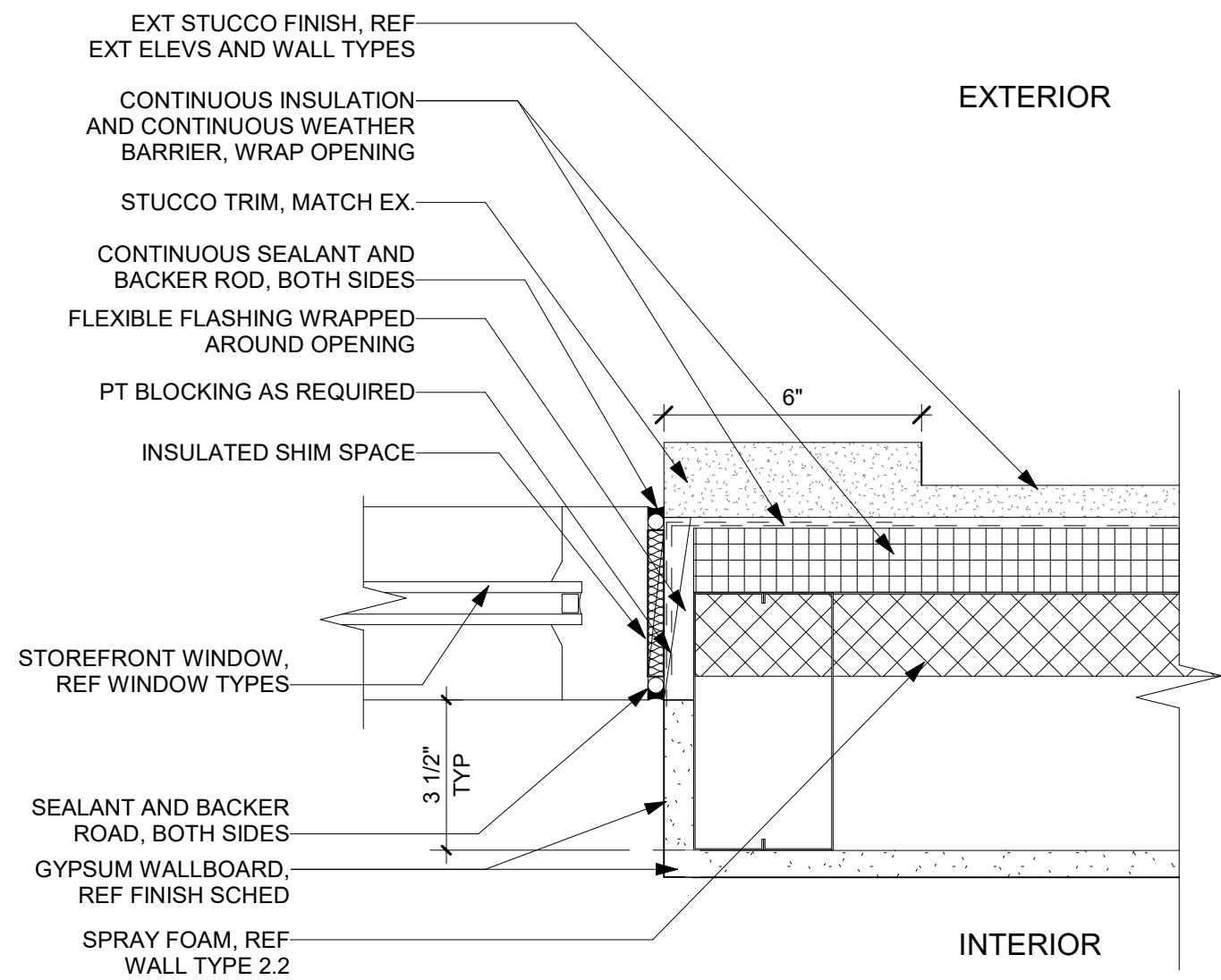
5 SF DOOR JAMB AT STUCCO
A5.60 3" = 1'-0"



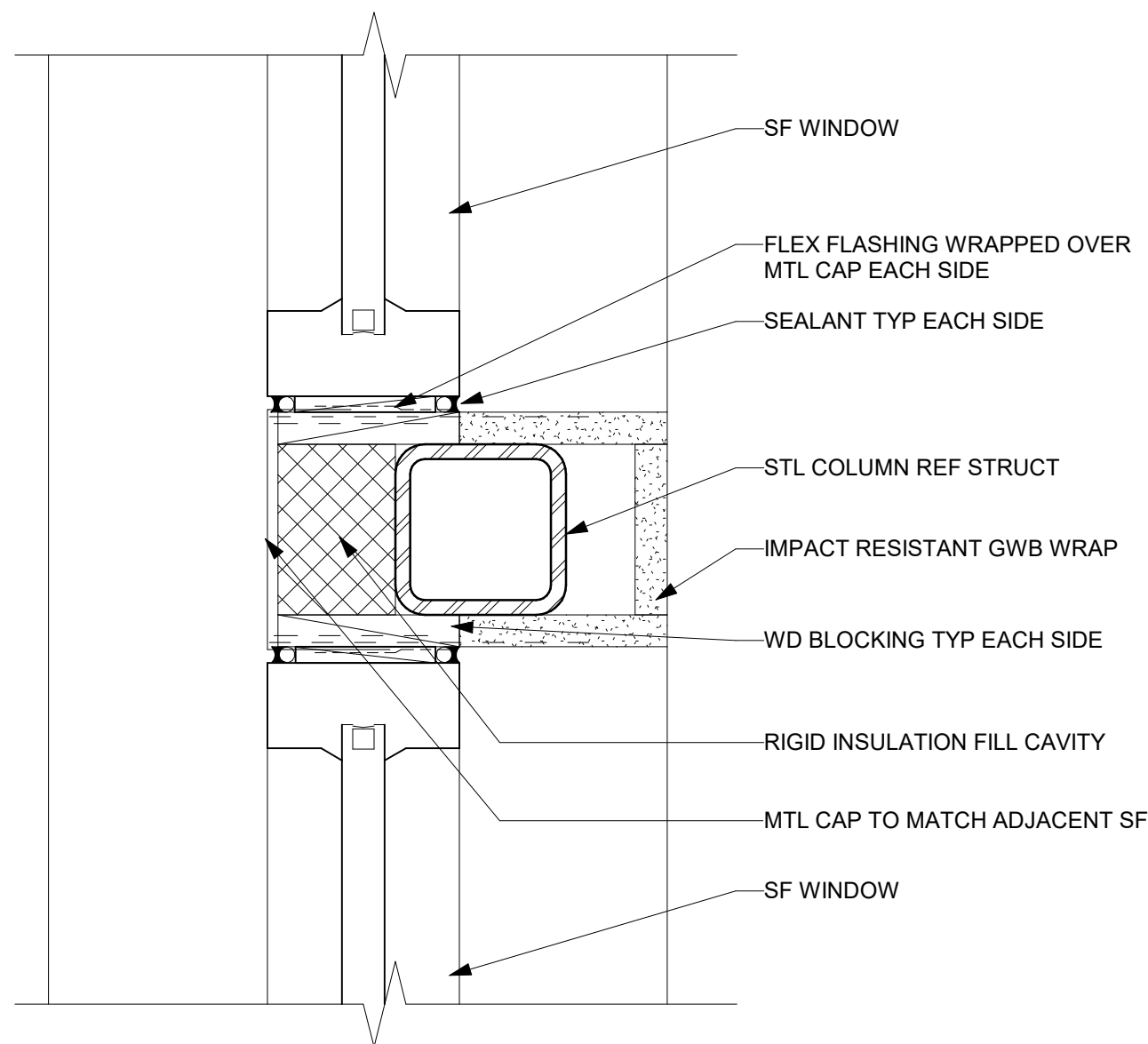
9 SF DOOR HEAD AT STUCCO
A5.60 3" = 1'-0"



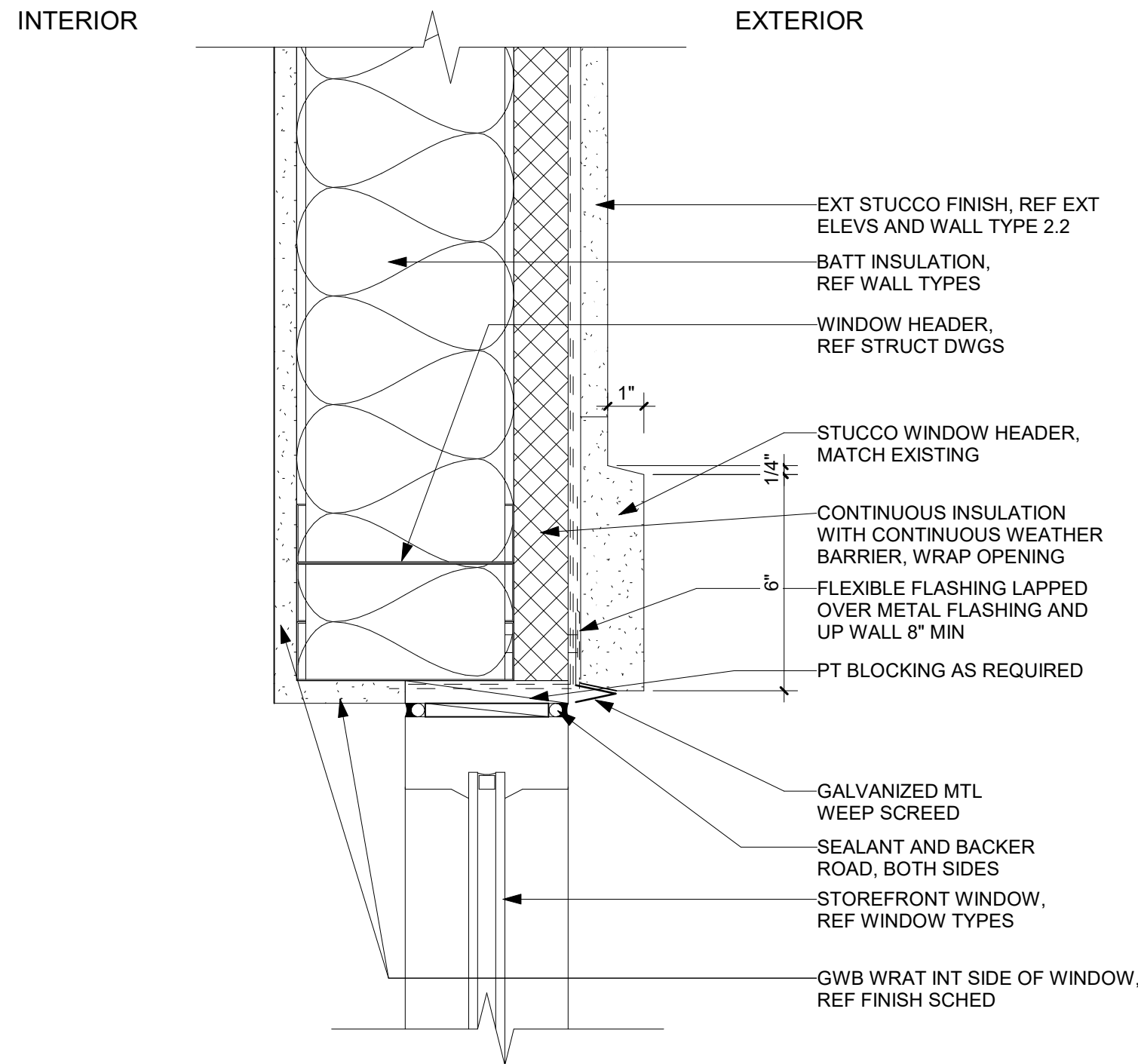
1 TYP WINDOW FLASHING DETAIL
A5.70 1 1/2" = 1'-0"



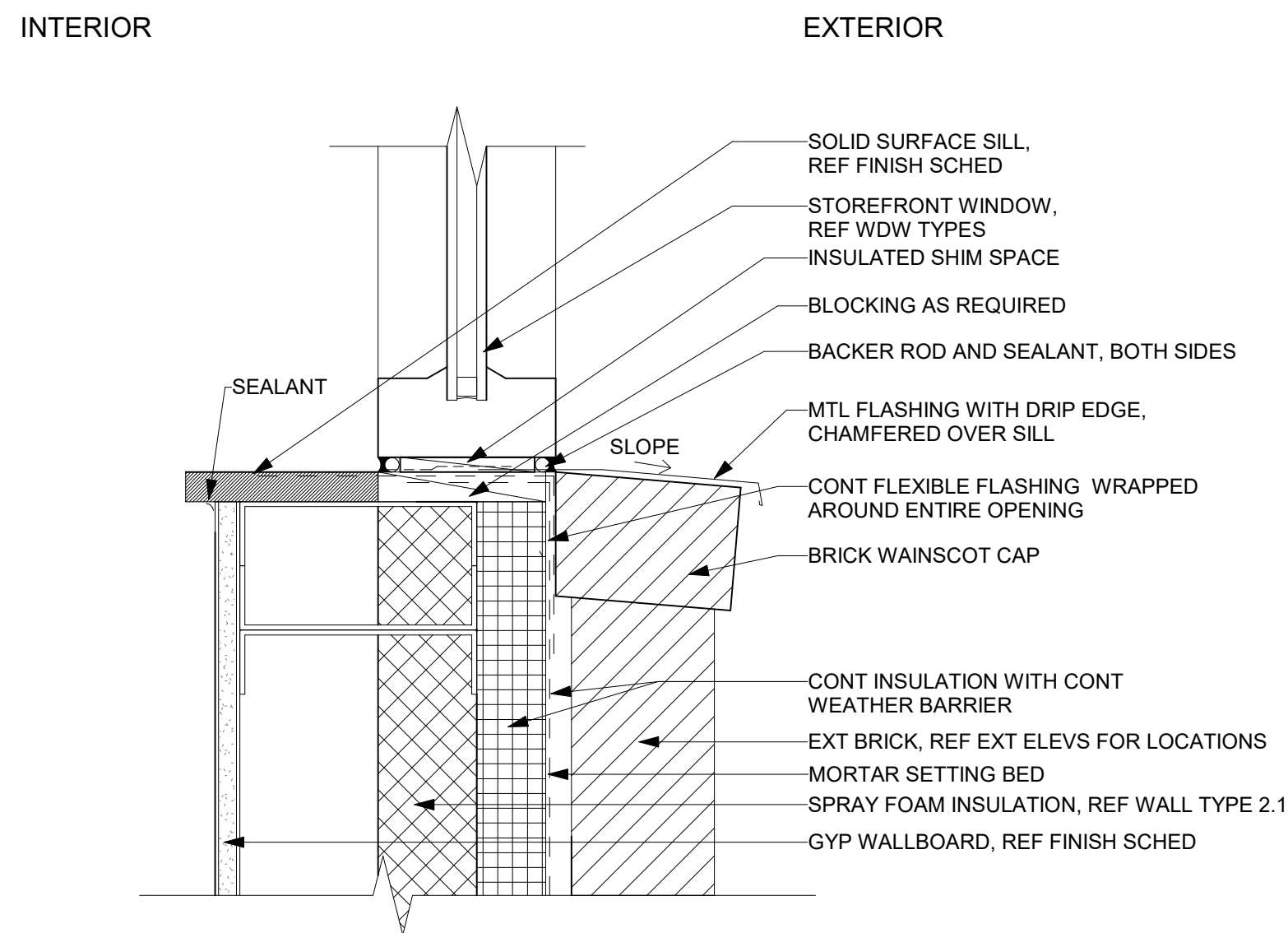
2 TYP WINDOW JAMB AT STUCCO
A5.70 3" = 1'-0"



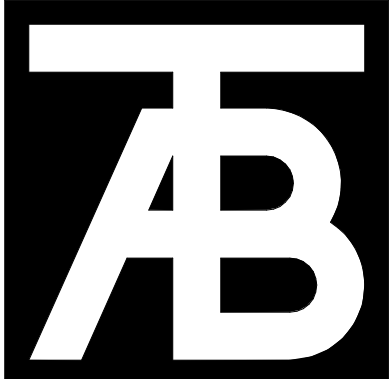
5 EXTERIOR WALL COLUMN BETWEEN WINDOWS
A5.70 3" = 1'-0"



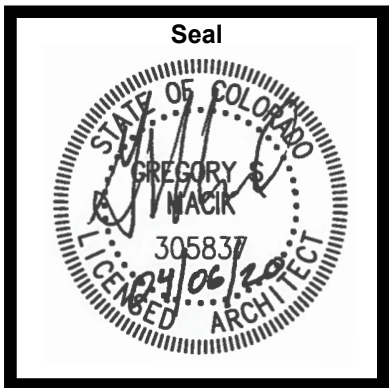
3 TYP WINDOW HEAD AT STUCCO
A5.70 3" = 1'-0"



4 TYP WINDOW SILL AT BRICK
A5.70 3" = 1'-0"



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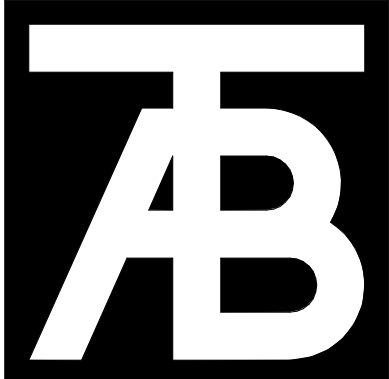
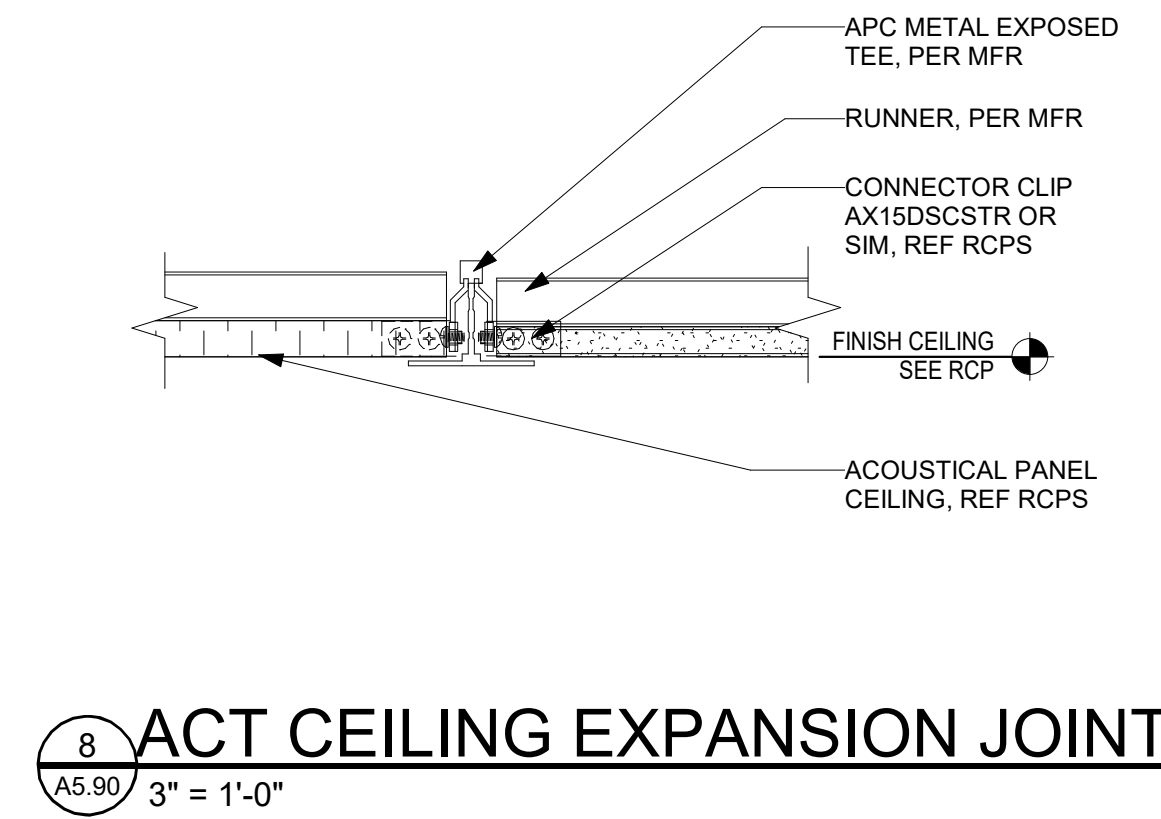
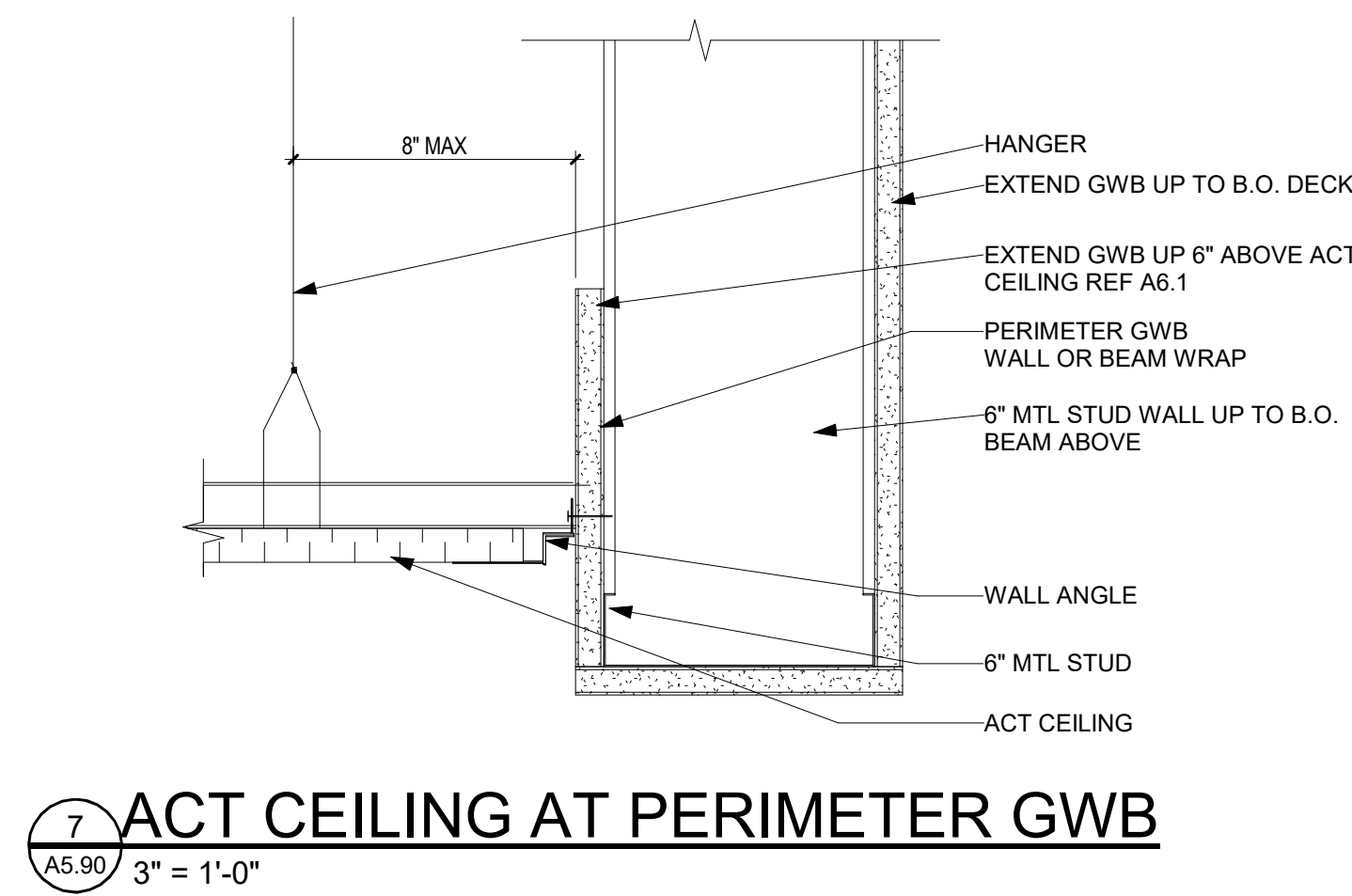
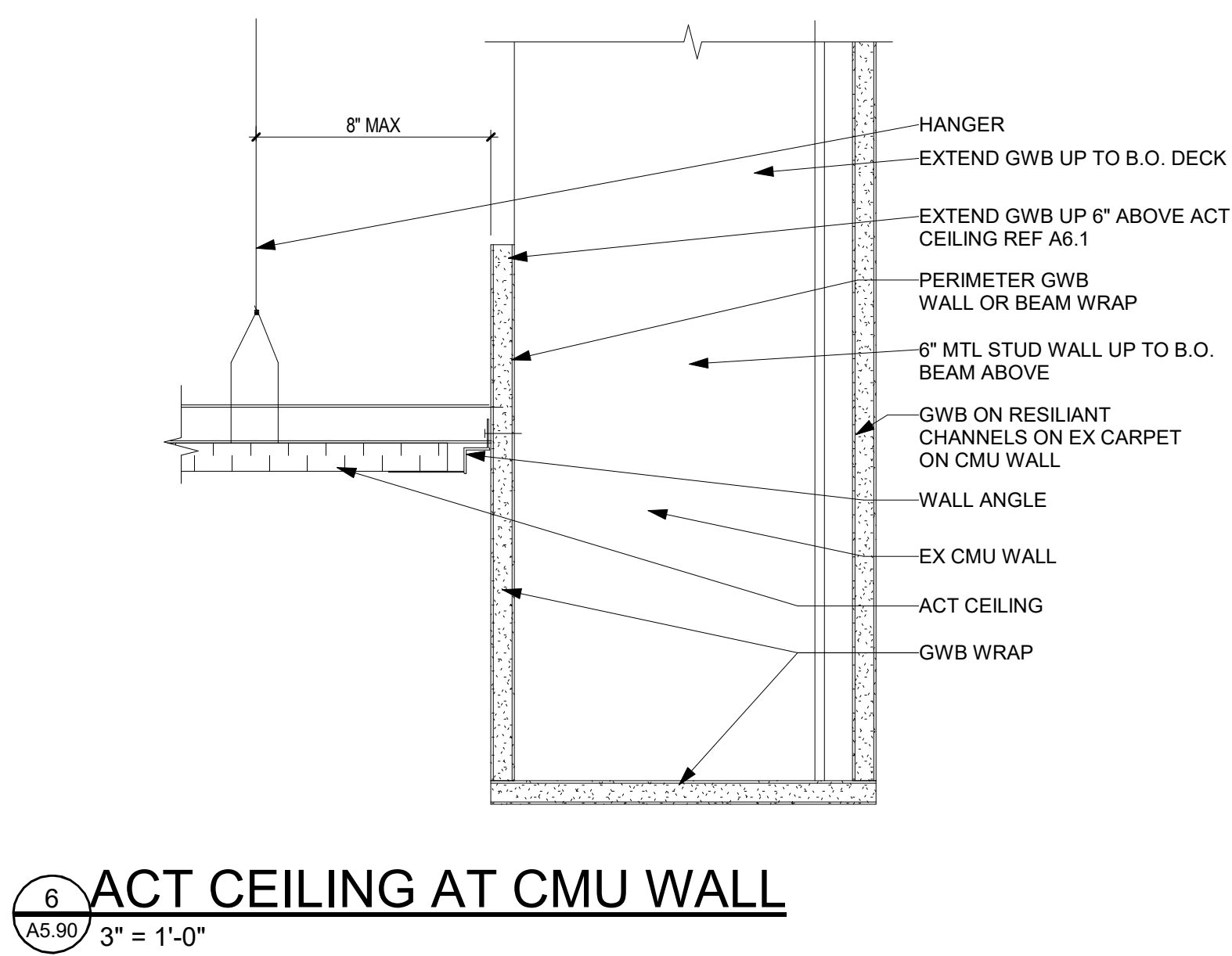
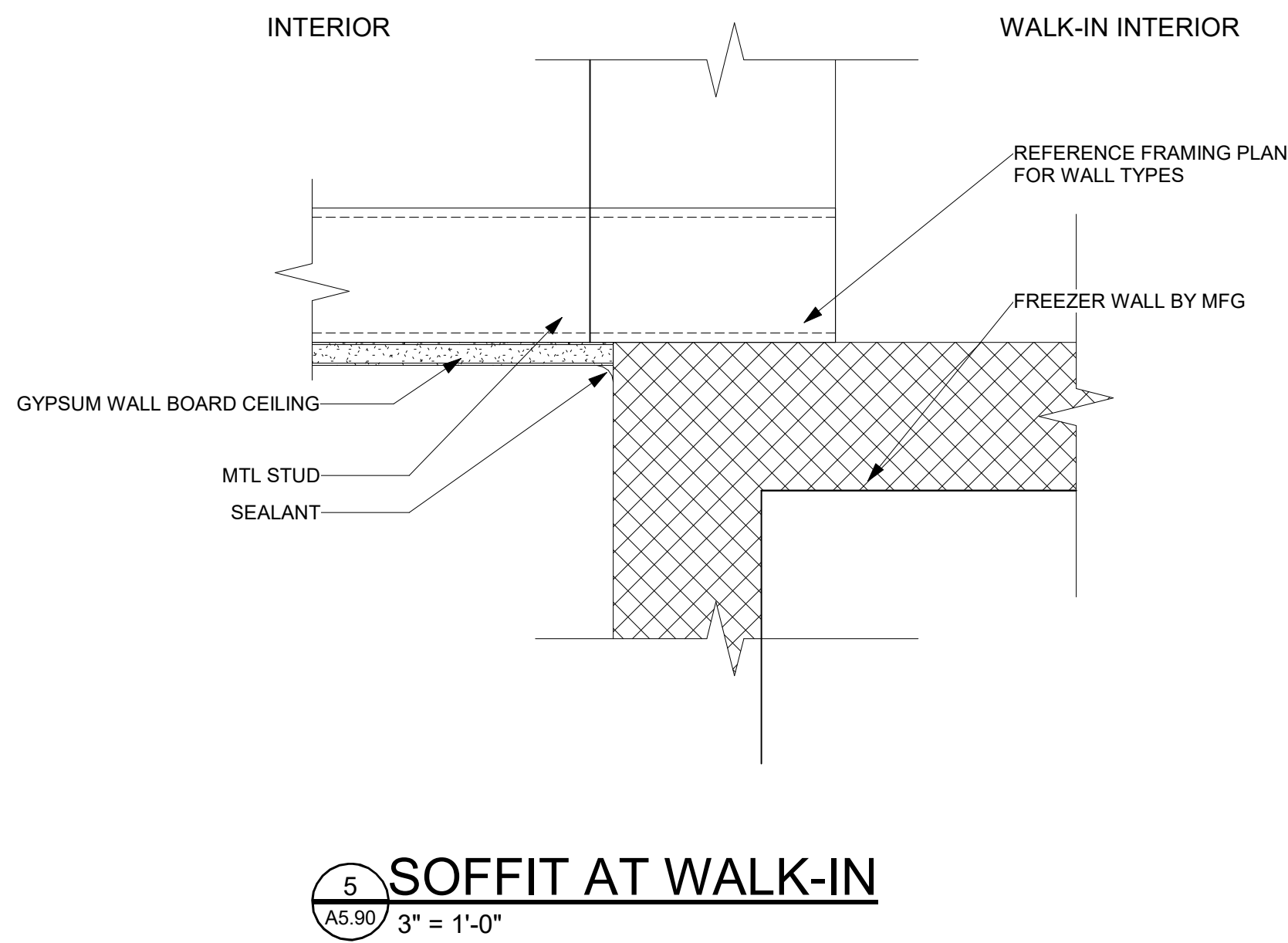
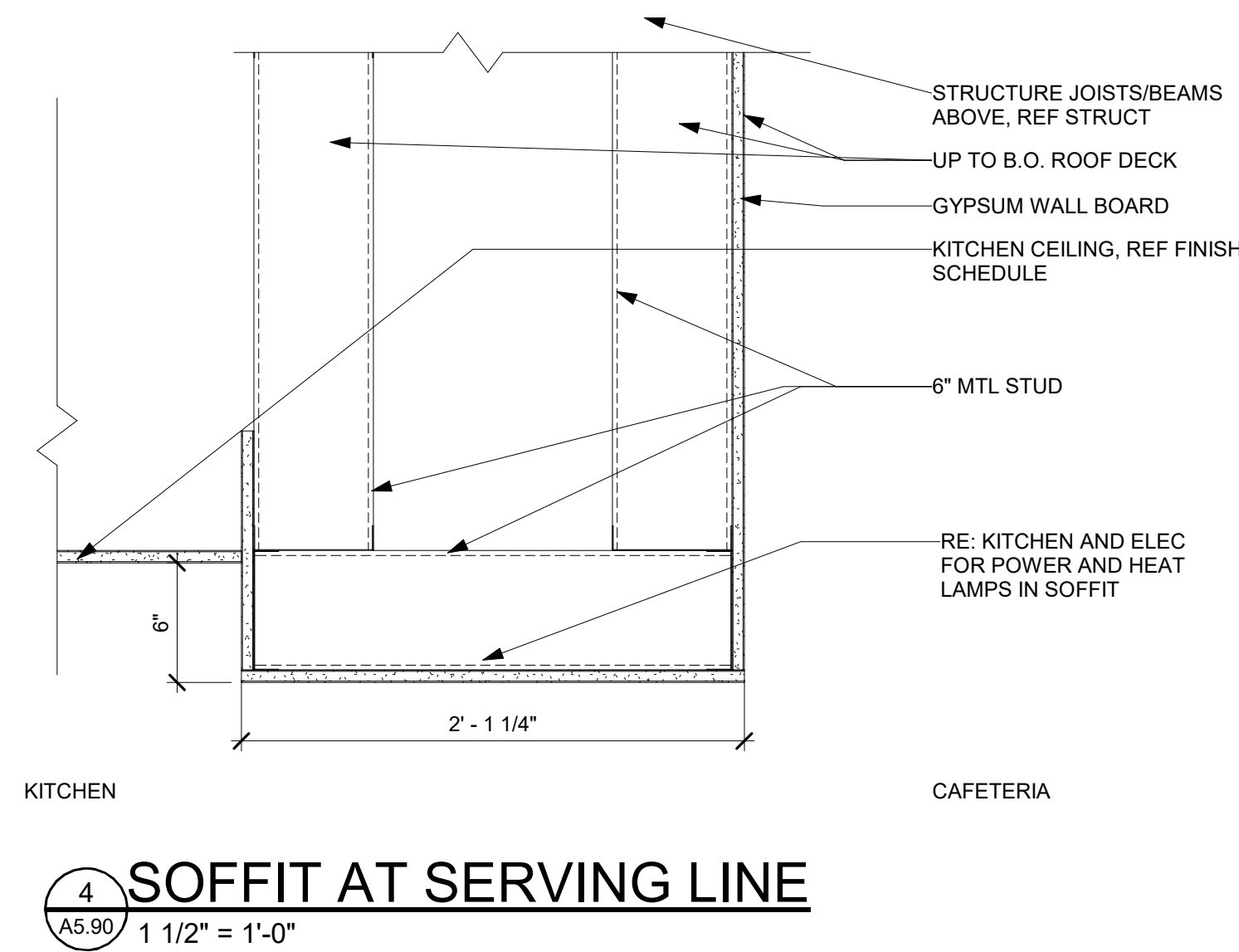
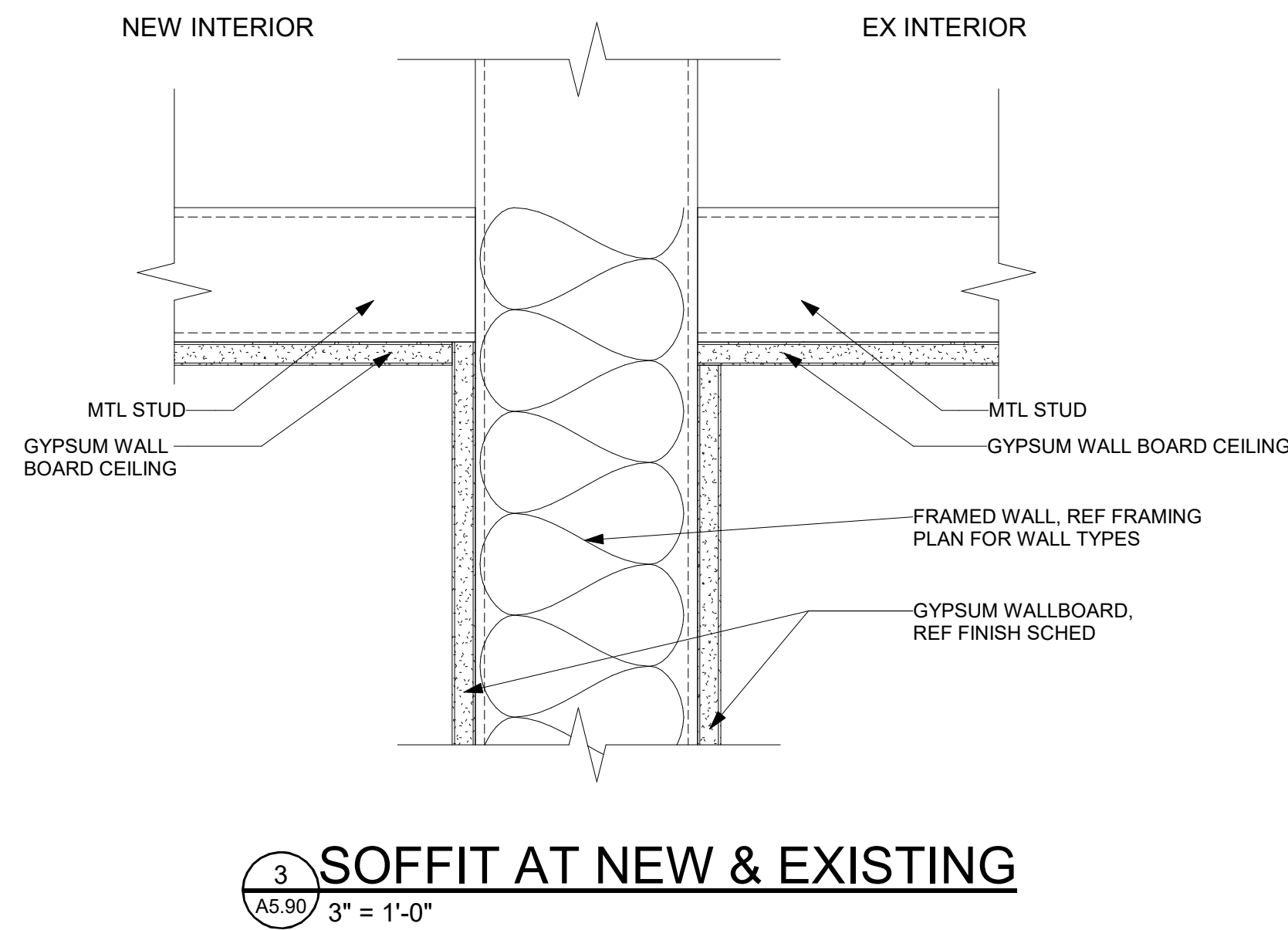
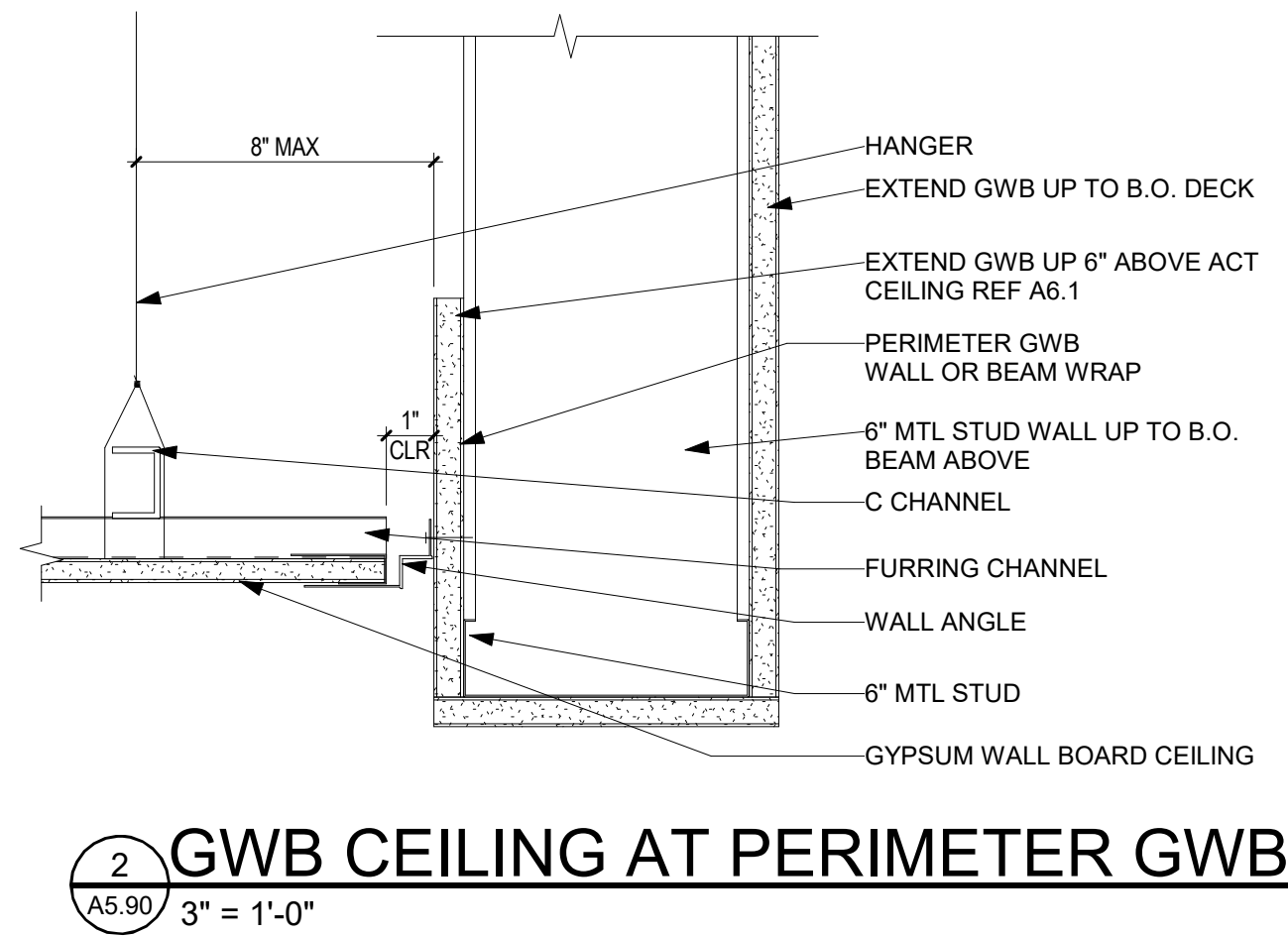
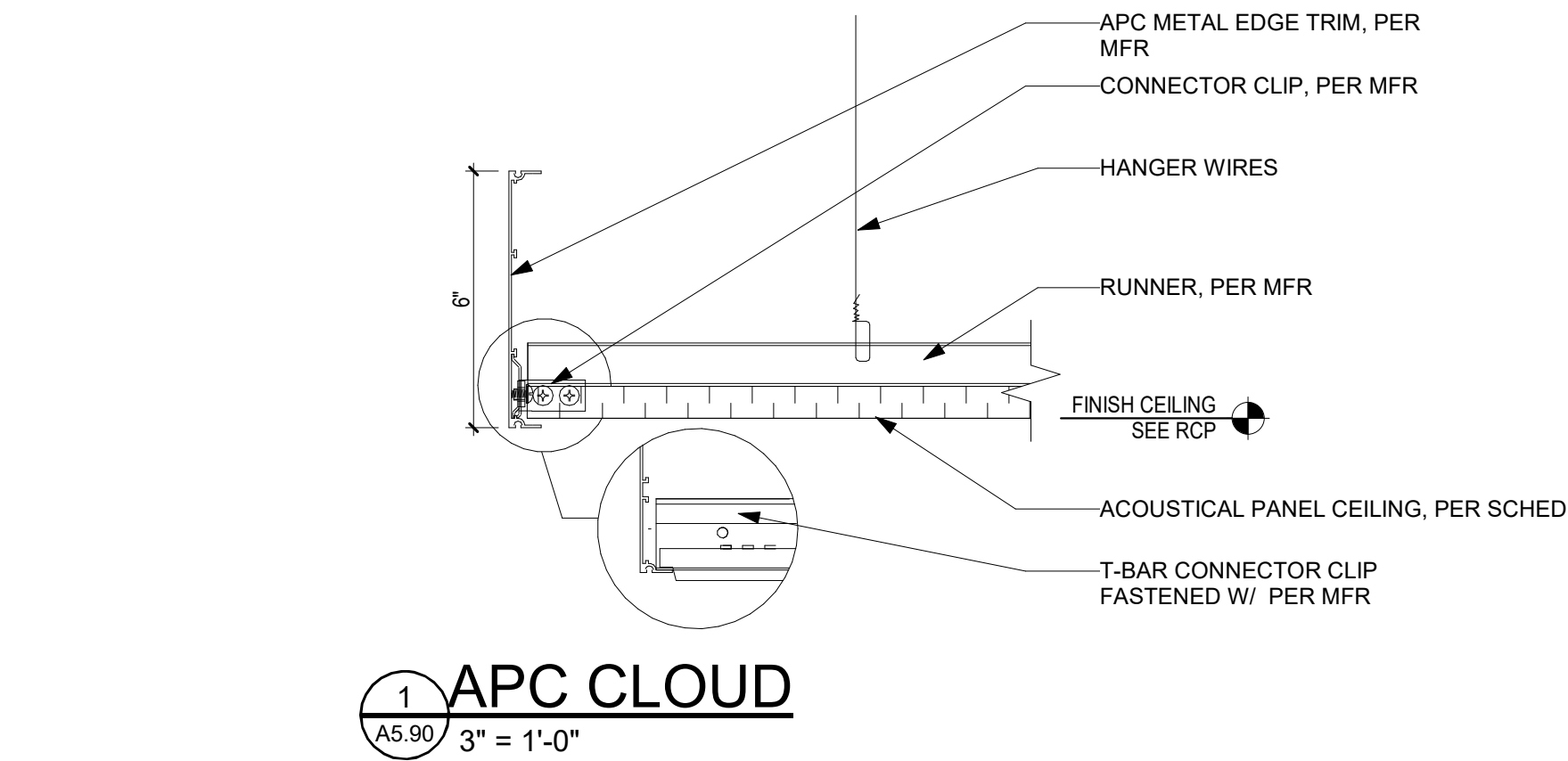
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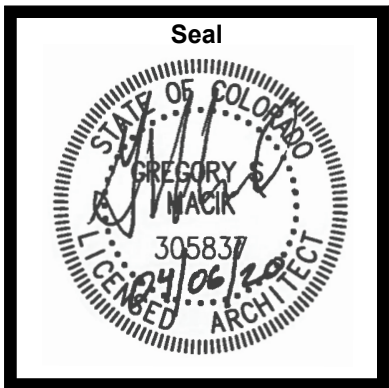
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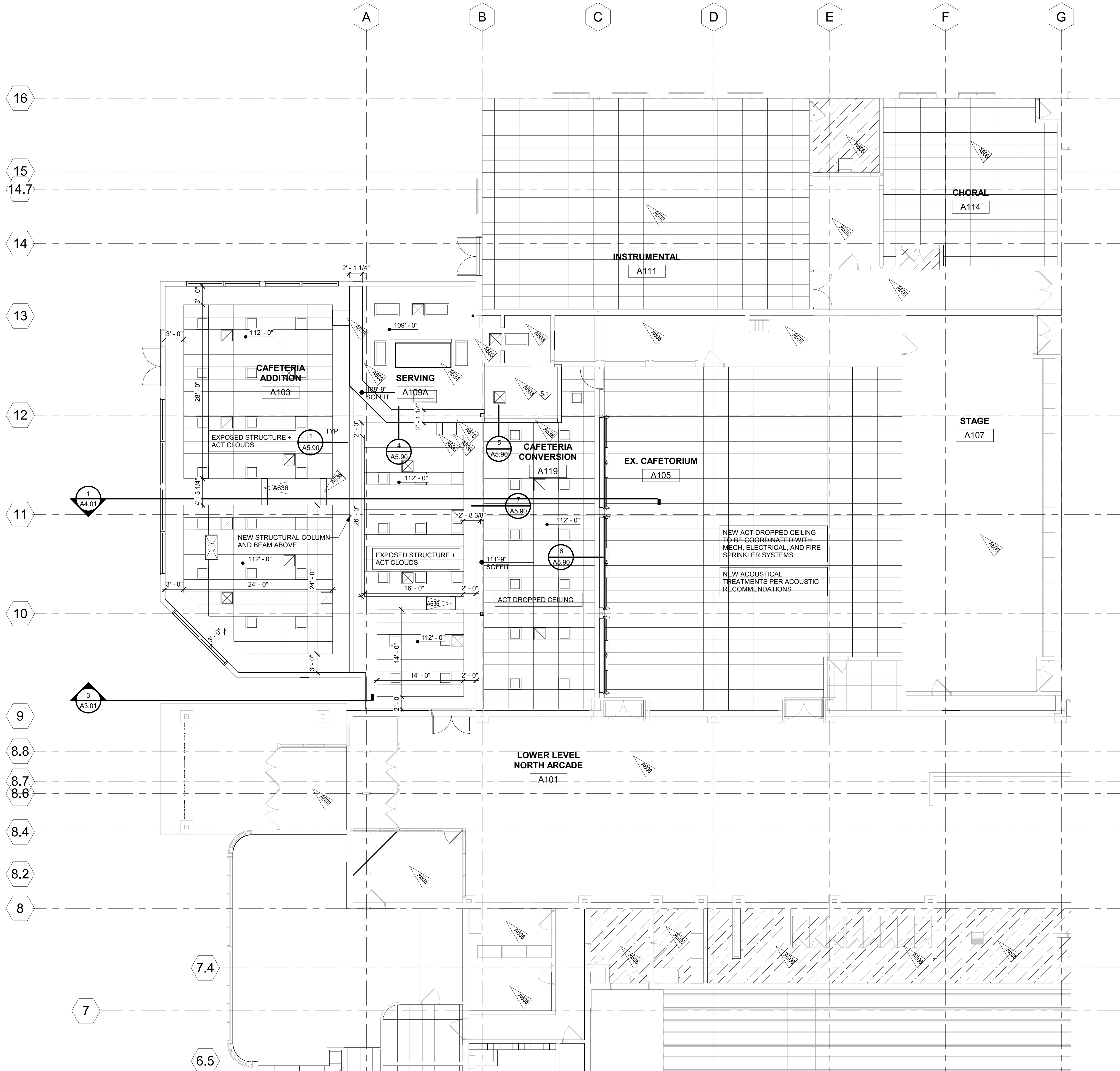
Revisions:		
No	Description	Date

Issue Dates:
Initial SD - 12/20/19
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DD - 02/21/20
95% CD - 03/30/20
CD's - 04/07/20

Sheet Title:
Ceiling Details

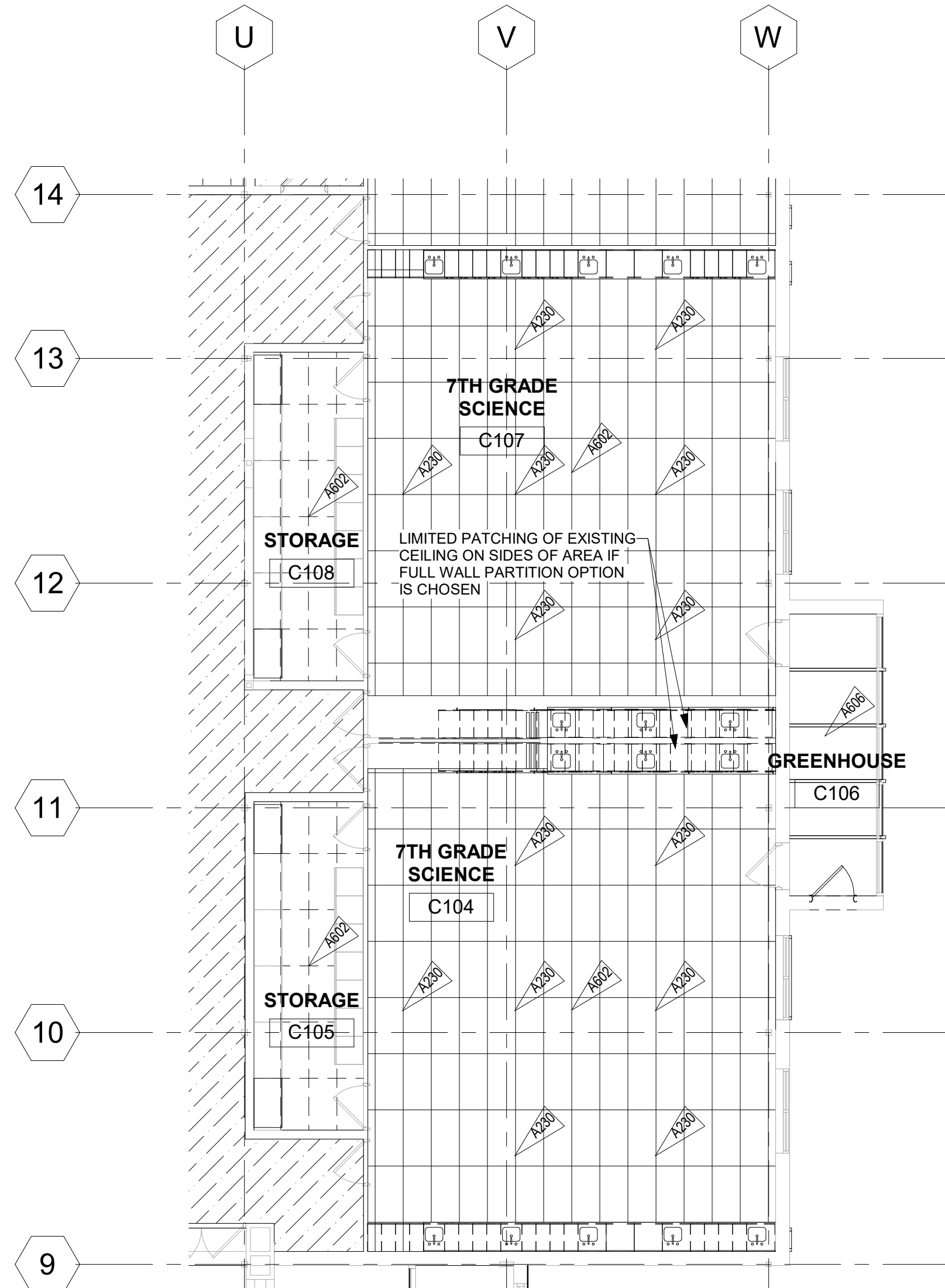
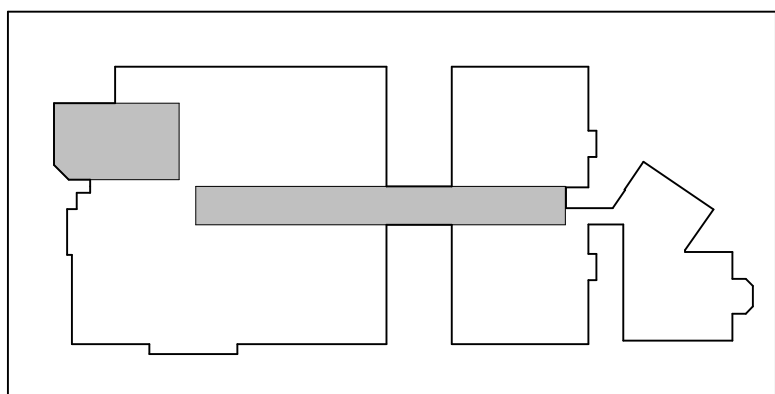
Project No:
1935.03

Sheet No:
A5.90

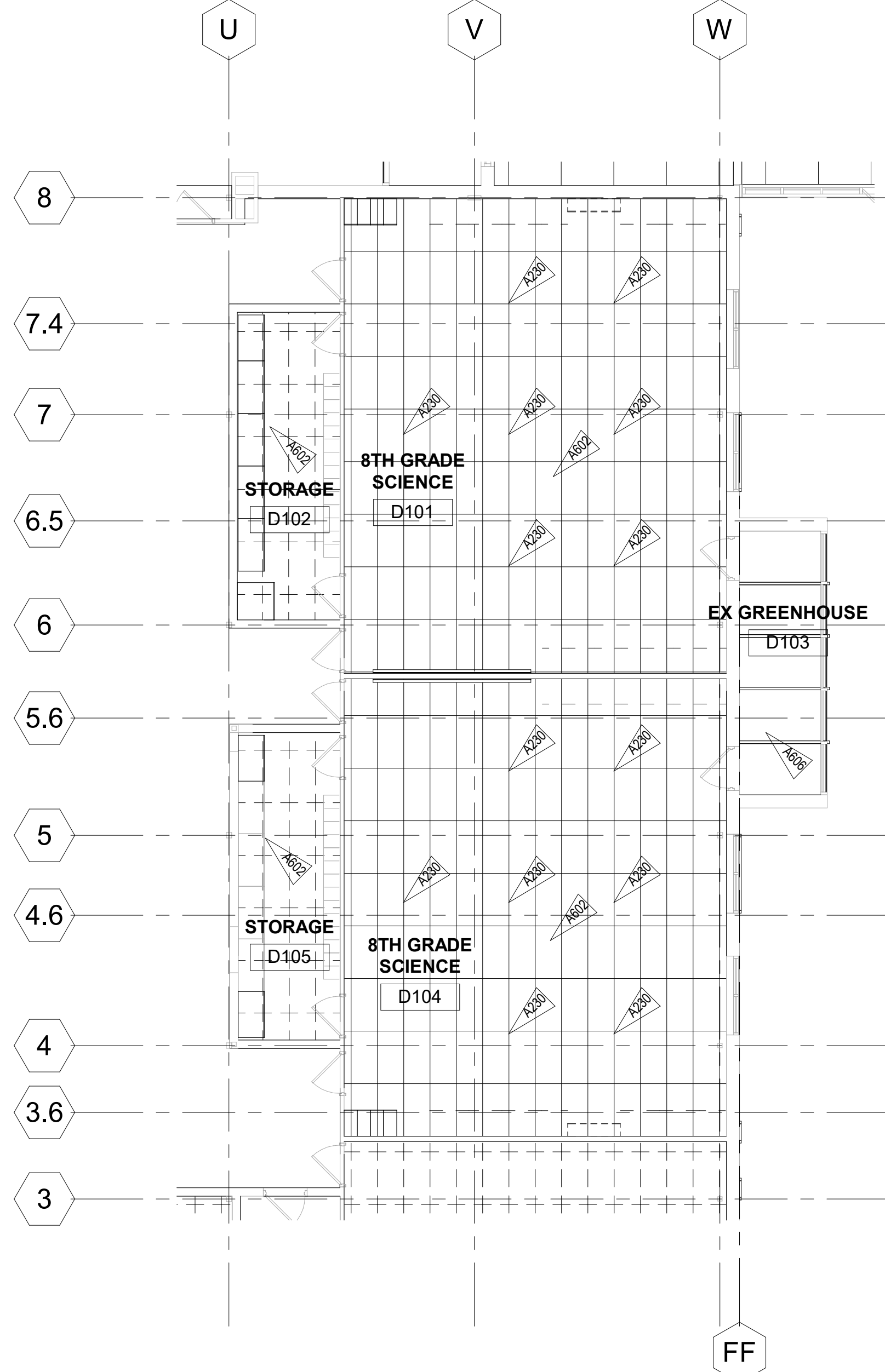


1 MAIN LEVEL PLAN
A6.01 1/8" = 1'-0"

KEYNOTE PLAN



2 7TH GRADE SCIENCE CLASSROOM RCP
A6.01 1/8" = 1'-0"



3 8TH SCIENCE CLASSROOM RCP
A6.01 1/8" = 1'-0"

NOTES:

RCP NOTES:

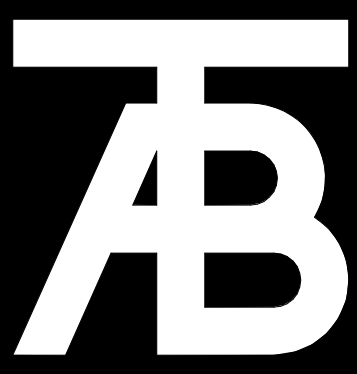
- REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FIRE SPRINKLER HEADS. CENTER FIRE SPRINKLER HEADS BOTH DIRECTIONS IN CEILING TILES.
- SUBMIT LAYOUT OF ALL GYPSUM BOARD CEILING CONTROL JOINTS FOR REVIEW.
- ALL CEILINGS SHALL BE AS NOTED ON PLANS.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILINGS IS REQUIRED OR INDICATED.
- LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, AND FIRE ALARMS SPEAKERS/STROBES SHALL BE CENTERED IN THE CEILING TILES IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
- CENTER ALL CEILING GRIDS IN EACH ROOM OR SPACE UNLESS OTHERWISE INDICATED WITH A GRID OR DIMENSION.
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR NEW LIGHTS AND REGISTERS.
- EXPOSED STRUCTURE PAINTED W/ DRYFALL MEP COMPONENTS NOT TO BE PAINTED.

Keynote Legend

Key Value	Keynote Text
A230	NEW CEILING MOUNTED DROP DOWN ELECTRICAL POWER OUTLET ON RETRACTABLE CORD, REF ELEC DRAWINGS
A602	EX 2X4 ACT CEILING TO REMAIN
A603	NEW GYPSUM CEILING
A606	EX CEILING TO REMAIN
A610	NEW PENDANT LIGHT, REF KITCHEN DRAWINGS
A634	NEW KITCHEN HOOD REF KITCHEN AND MECHANICAL DRAWINGS
A636	NEW MECHANICAL DUCT, REF MECH DRAWINGS
A638	NEW CLOSURE WALL ABOVE REFRIGERATOR UNIT

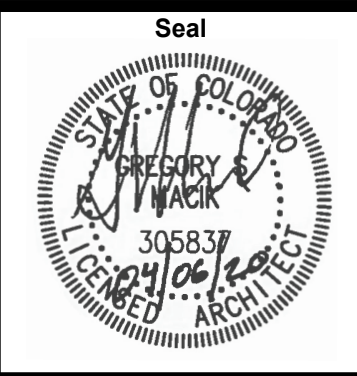
RCP LEGEND:

	AIR SUPPLY, REF MECHANICAL
	LIGHT FIXTURE, REF ELECTRICAL
	APC-1 2X4 ACOUSTICAL LAY-IN CEILING WITH 6' x 6' TRIM (HIGH NRC PANEL) HEIGHT AS NOTED.
	GYPSUM WALL BOARD CEILING HEIGHT AS NOTED.



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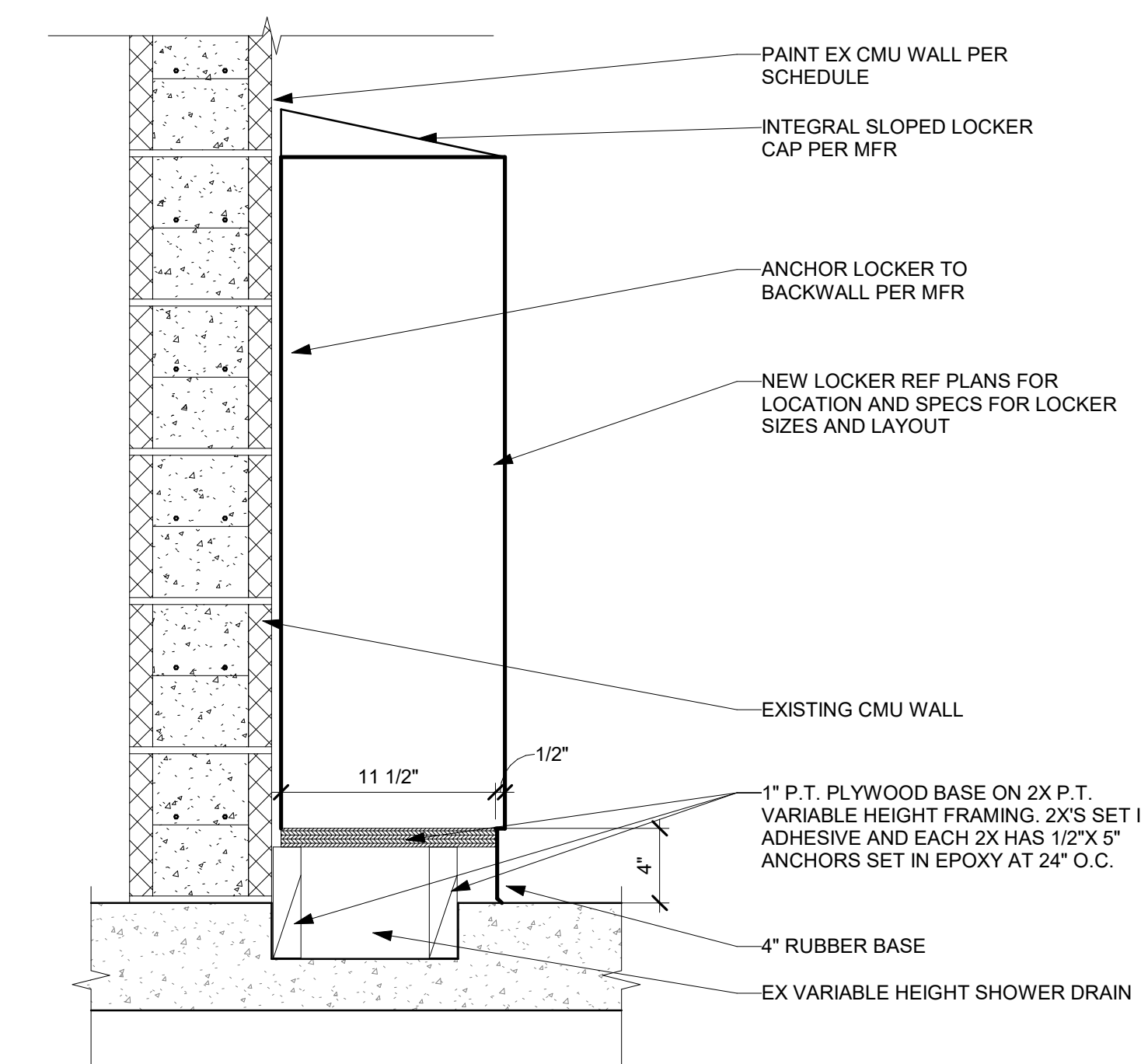
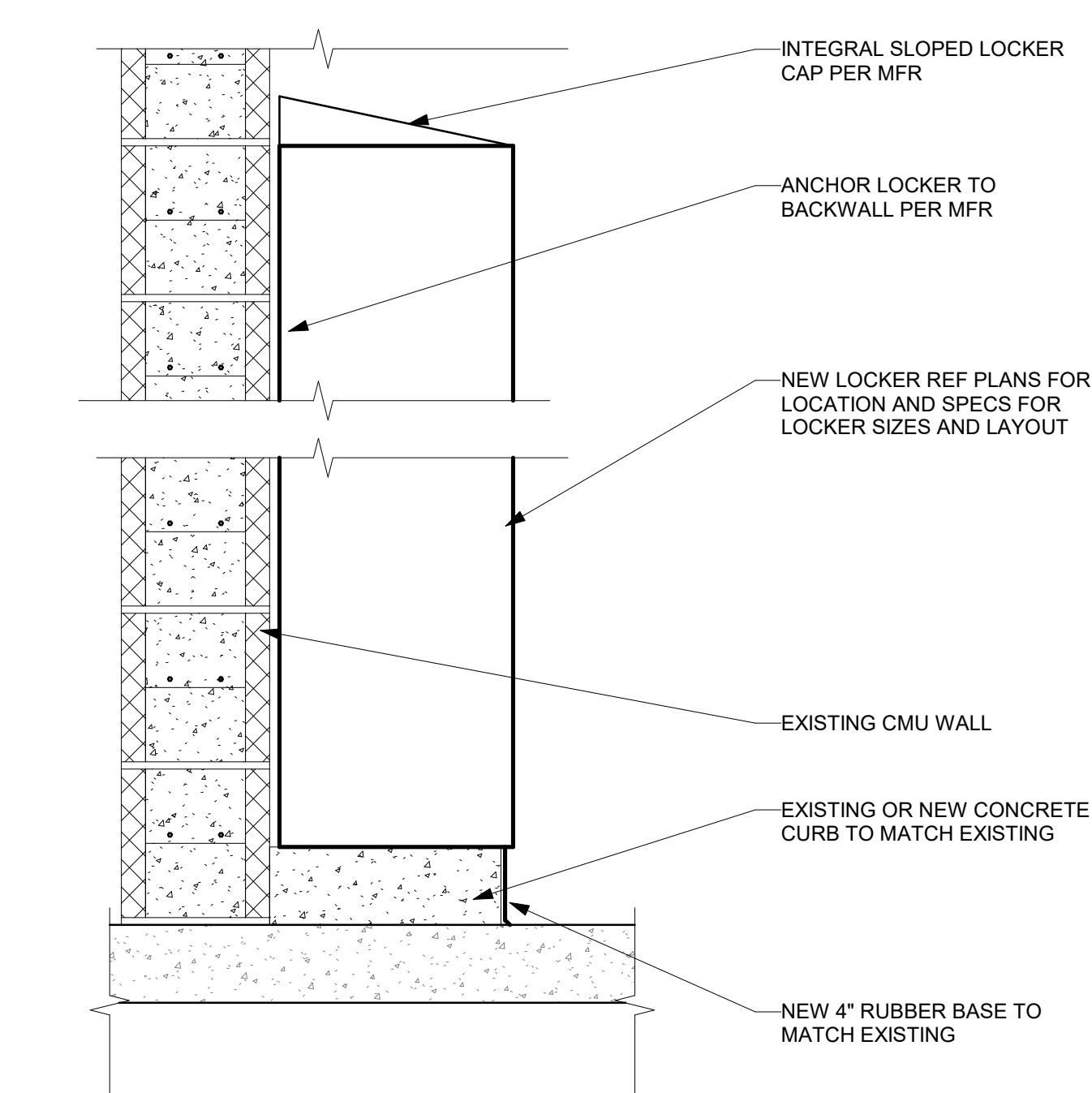
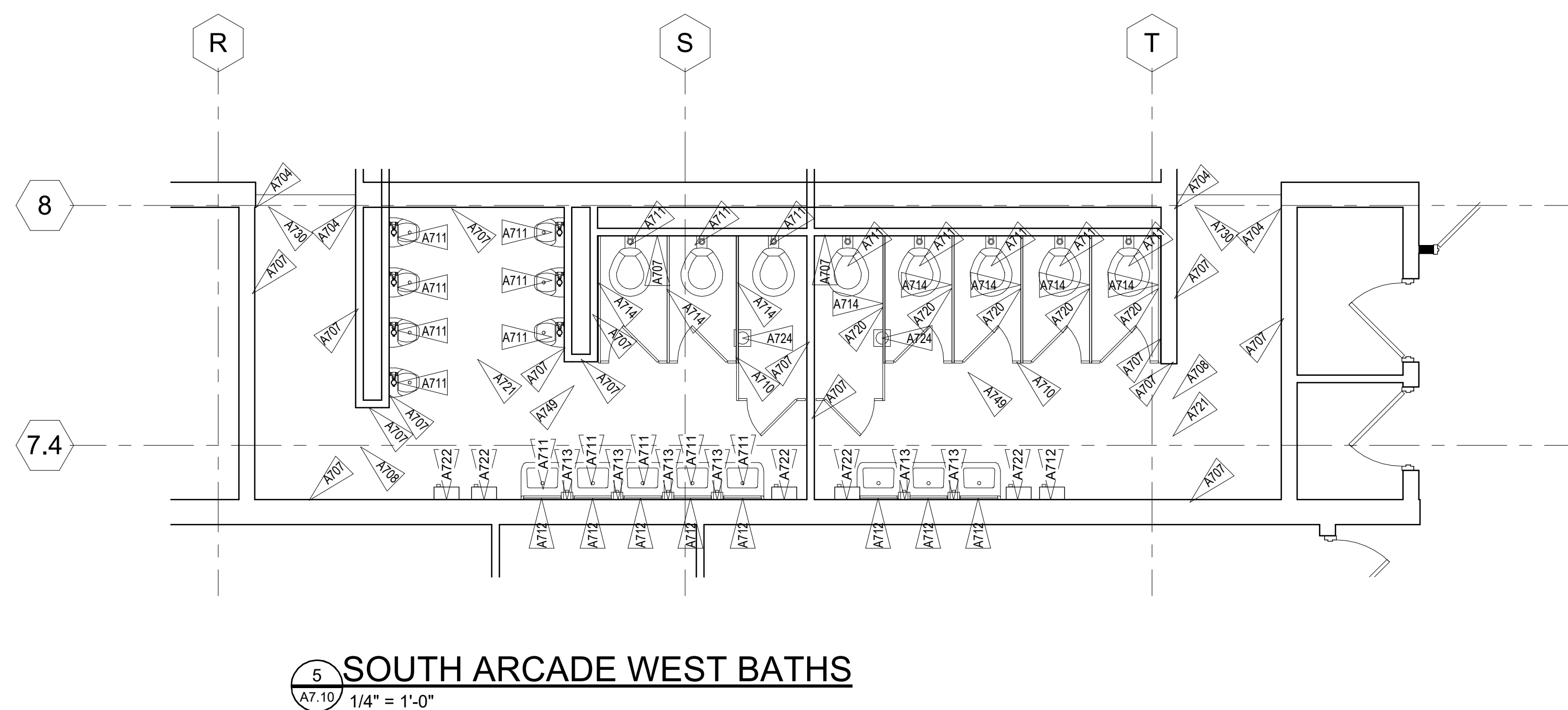
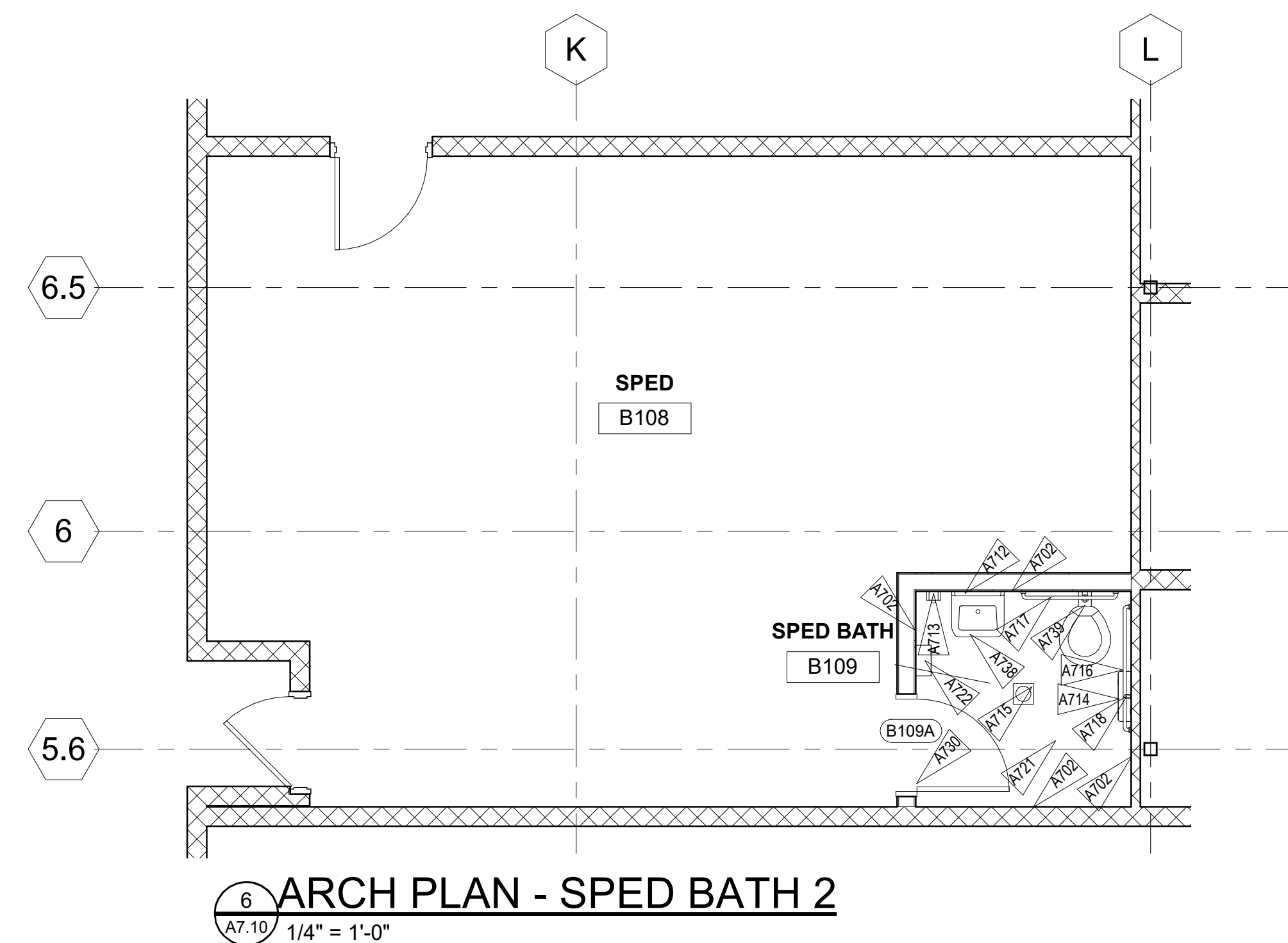
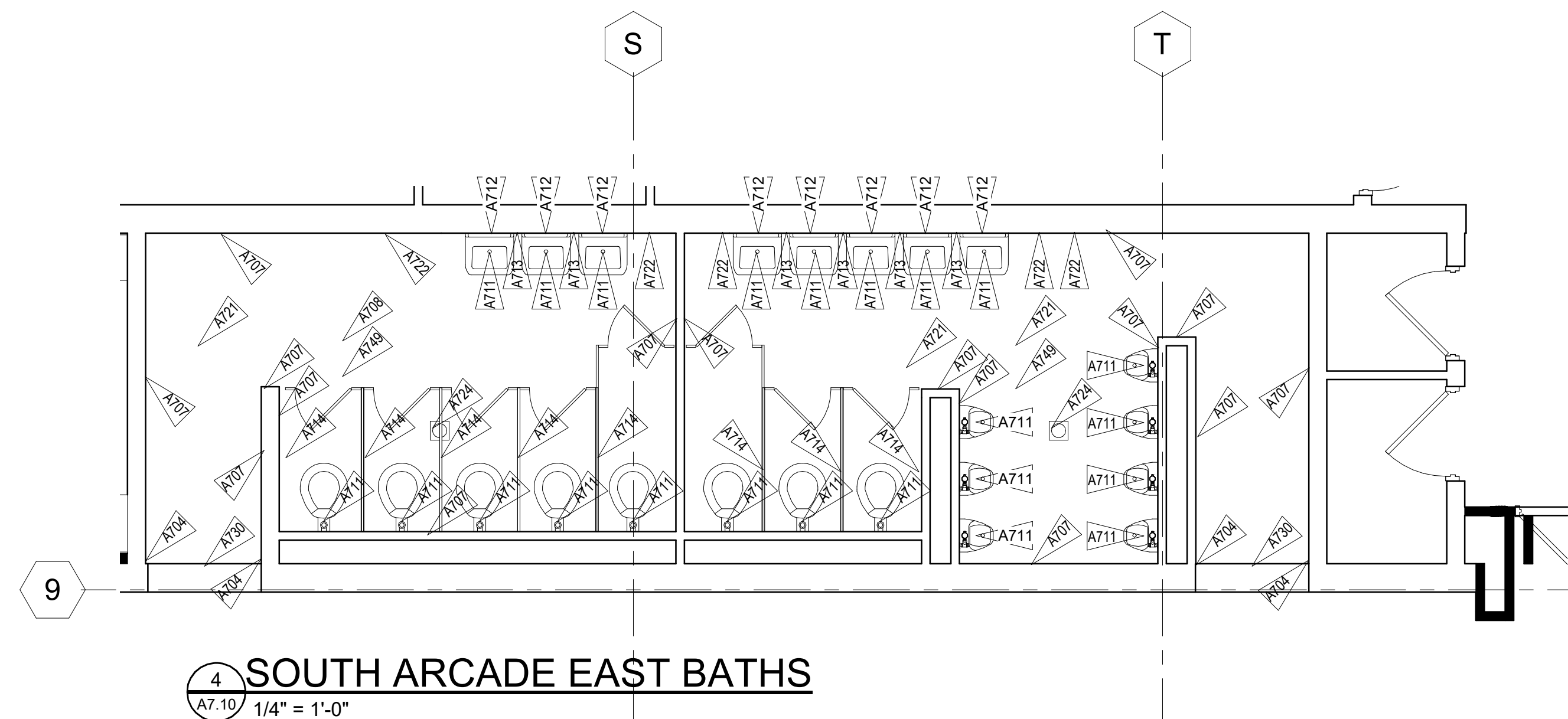
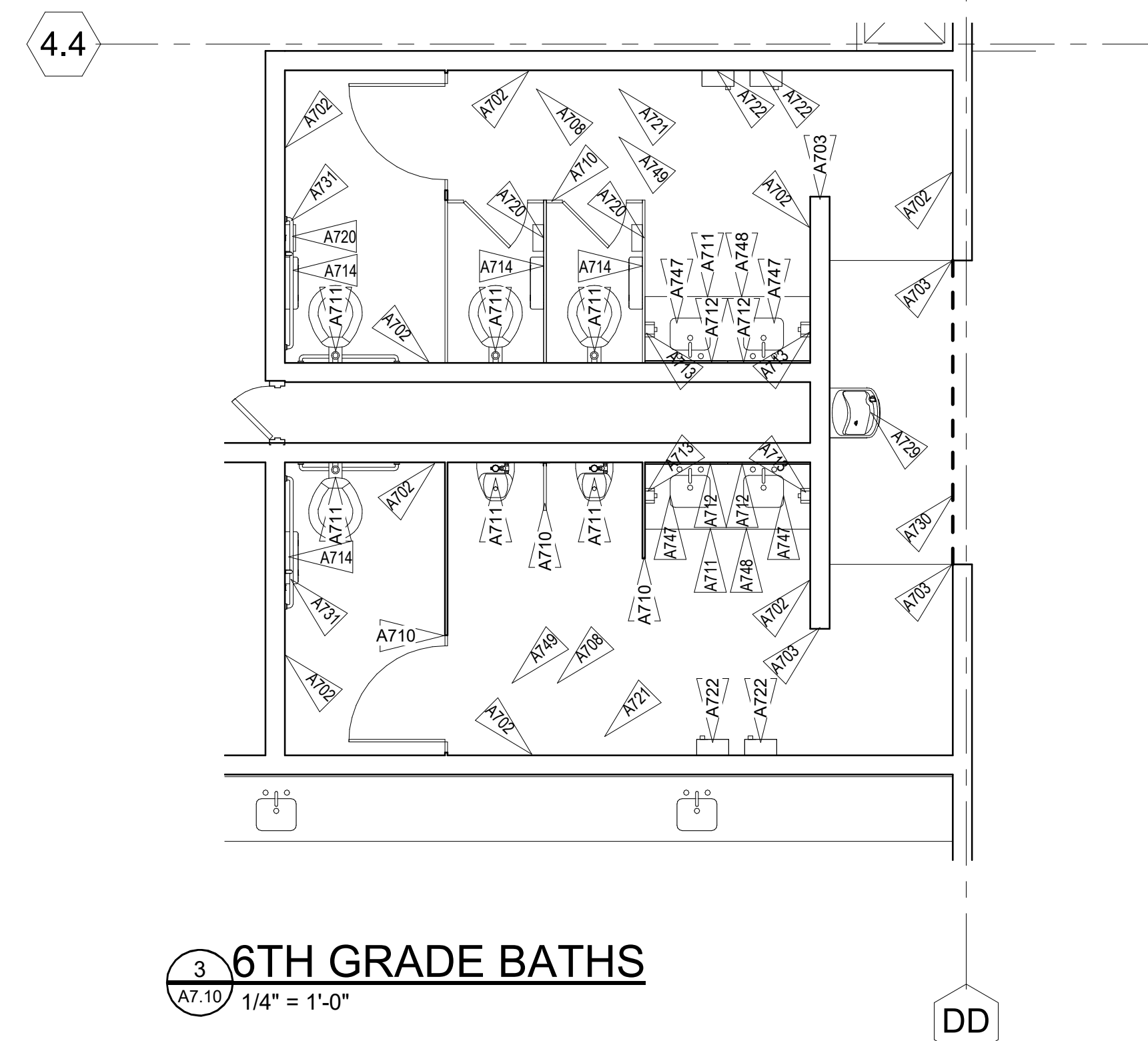
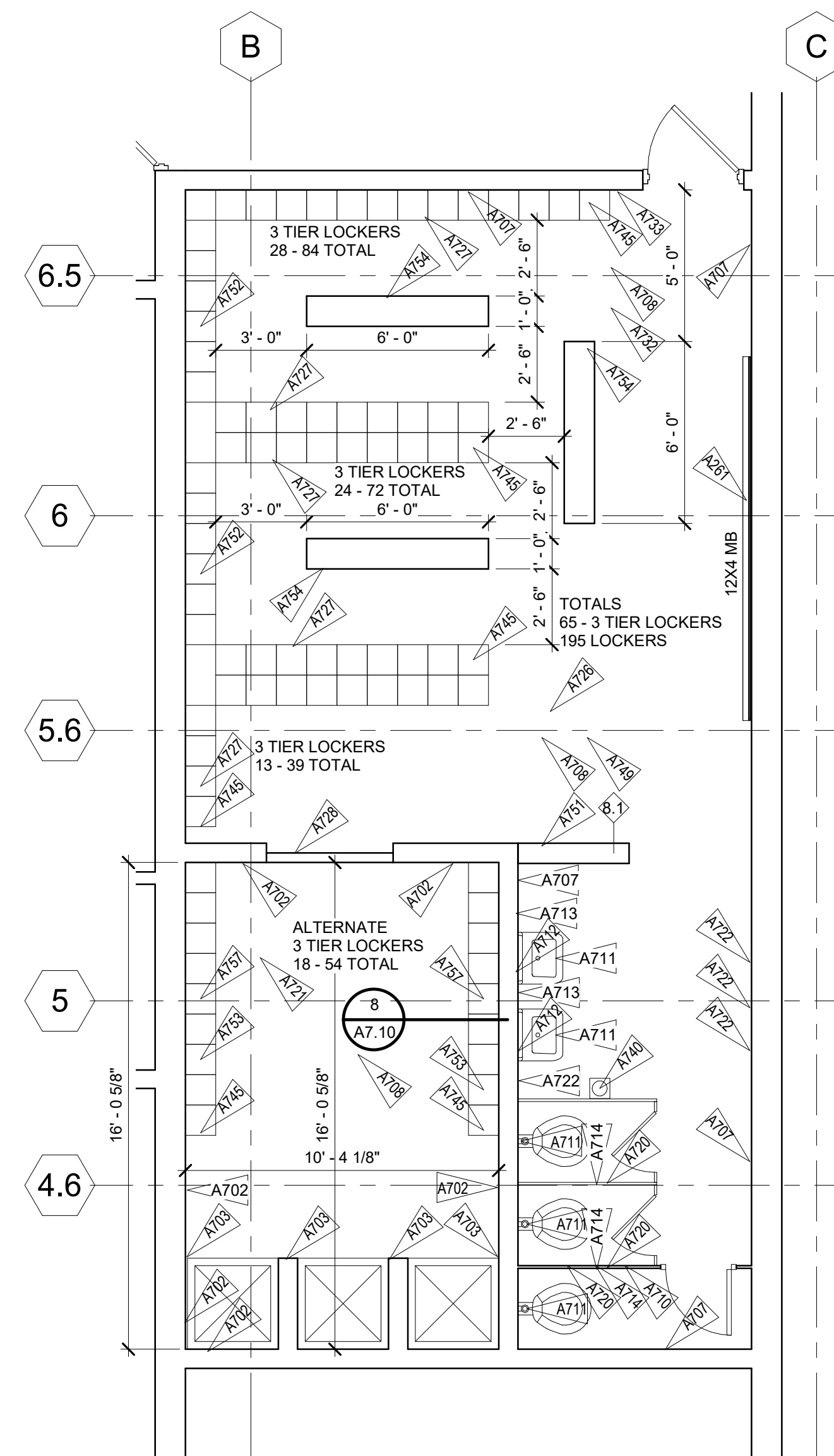
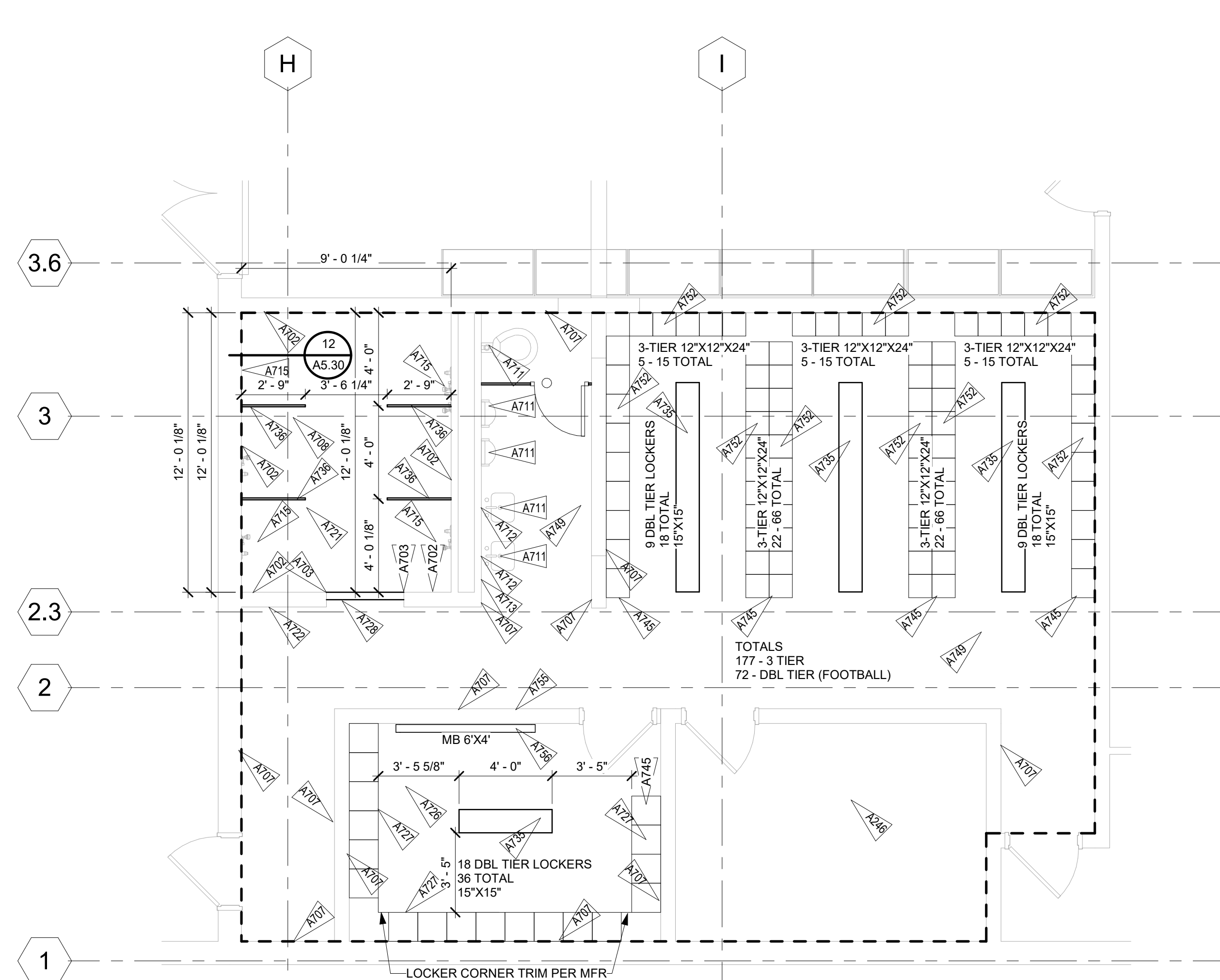
Revisions:		
No	Description	Date

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95% CD - 03/30/20
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Sheet Title:
Reflected Ceiling Plan

Project No:
1935.03

Sheet No:
A6.01



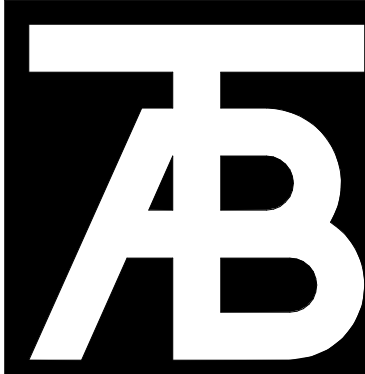
NOTES:

BATHROOMS REPAIR/MAINTENANCE SCOPE OF WORK:
NO CHANGE TO LAYOUTS, FIXTURES, AND LIGHTING.
UNLESS NOTED OTHERWISE.

ITEMS BEING REPLACED WILL BE THE SAME SIZE AND
INSTALLED IN THE SAME LOCATION.
UNLESS NOTED OTHERWISE.

1. REPLACE WALL TILE
2. REPLACE FLOOR TILE
3. REPAINT EXISTING CMU WALLS AND CEILING
4. NEW PARTITIONS IN SAME SIZE/LOCATION AS EX.
5. NEW PLUMBING FITTINGS
6. NEW PLUMBING VALVES
7. NEW MIRRORS
8. NEW HAND DRYERS

Keynote Legend	
Key Value	Keynote Text
A246	NO WORK IN AREA
A261	INSTALL (2) 12"X 4'x 4' TACKBOARDS WITH A 8'x 4' PROJECTABLE WHITEBOARD AND A 6' x 4' PROJECTABLE MARKER BOARD WITH MUSIC STAFF, ON TEACHING WALL, REF DETAIL 3/47.04
A702	FULL HEIGHT WALL TILE
A703	FULL HEIGHT TILE ON END FACE TERMINATE TILE ON OUTSIDE EDGE, RE: SIM DETAIL 2/32.30
A704	FULL HEIGHT TILE ON END FACE, RE: DETAIL 30
A707	EXISTING CMU, PAINT (EPOXY PAINT) PATCH AND PAINT EXISTING GYP BD CEILING (EPOXY PAINT)
A710	INSTALL NEW BATHROOM PARTITIONS OVERHEAD BRACED PER SPECS PROVIDE ONSITE MEASUREMENTS TO CONFIRM EXACT SIZES PER EACH RESTROOM, NEW PARTITIONS TO MATCH EXISTING LAYOUT
A711	EXISTING FIXTURES WITH NEW FAUCETS AND FLUSH VALVES, RE MEP. INSTALL NEW PIPE PROTECTION COVERS AT EXPOSED SINK PIPES
A712	INSTALL NEW WALL MIRROR PER SPECS GC TO INSTALL, OWNER SUPPLIED SOAP DISPENSER
A713	GC TO INSTALL OWNER SUPPLIED SOAP DISPENSER
A714	GC TO INSTALL OWNER SUPPLIED TOILET PAPER DISPENSER
A715	EXISTING FLOOR DRAIN - INSTALL TILE PER DETAILS 9-10/45.30
A716	INSTALL SIDE WALL GRAB BAR GB-2.42"
A717	INSTALL BACK WALL GRAB BAR GB-1.36"
A718	INSTALL SIDE WALL VERTICAL GRAB BAR GB-5.18" IN DRYWALL WITH HANDS ADDITIONAL BACKING MAY BE NECESSARY
A720	INSTALL OWNER PROVIDED SANITARY NAPPEL DISPOSAL UNIT
A721	INSTALL NEW FLOOR TILE
A722	NEW WALL MOUNTED ELECTRIC HAND DRYER
A724	INSTALL NEW FLOOR DRAIN FLUSH WITH TOP OF TILE PER DETAIL
A726	EXISTING SEALED CONCRETE FLOOR TO REMAIN
A727	NEW LOCKERS ON NEW CURBS
A728	EXISTING CONC CURB TO REMAIN, WRAP W/ FLOOR TILE
A729	EXISTING FOUNTAIN TO REMAIN
A730	END FLOOR TILE, RE: SIM 1/4/45.30
A731	EXISTING GRAB BARS TO REMAIN, REMOVE AND REINSTALL, IF REQ FOR TILE INSTALLATION
A732	PATCH FLOOR WHERE WALL WAS REMOVED TO MATCH ADJACENT, SEAL CONC TO MATCH ADJ AS REQ
A733	PATCH CMU WHERE WALL WAS REMOVED, NEW BENCH INSTALLED ON EX CONC
A735	EXISTING TOILET TO EXIST
A736	NEW SHOWER PARTITION WALL OVERHEAD BRACED PER SPECS
A738	INSTALL NEW SINK
A739	INSTALL NEW TOILET
A740	EX FLOOR DRAIN
A745	END OF LOCKERS - EXPOSED EDGE, PROVIDE END PANEL
A747	REINSTALL SALVAGED UNDERMOUNT SINK
A748	NEW CORIAN COUNTERTOP AND 6" BACKLASH
A749	REPLACE ALL SURFACE MOUNTED LIGHT FIXTURES, REF ELECT
A751	NEW CMU WALL TO MATCH ADJACENT
A752	NEW LOCKERS ON NEW CURBS
A753	NEW LOCKERS ON NEW FRAMED CURB
A754	NEW BENCH ON NEW CONC CURB
A755	EXISTING WINDOWS TO REMAIN
A756	MARKER BOARD TO BE MOUNTED OVER TOP OF WINDOWS
A757	ALTERNATE #5



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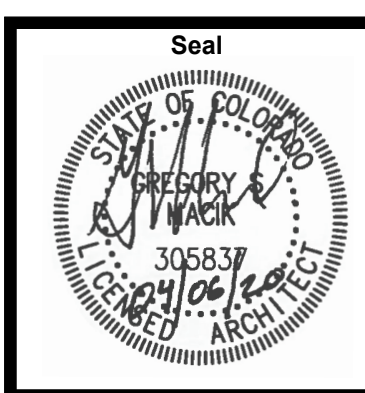
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Issue Dates:
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Sheet Title:

Enlarged Floor Plans

Project No:
1935.03

Sheet No:
A7.10

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Issue Dates:
Initial SD - 12/20/19
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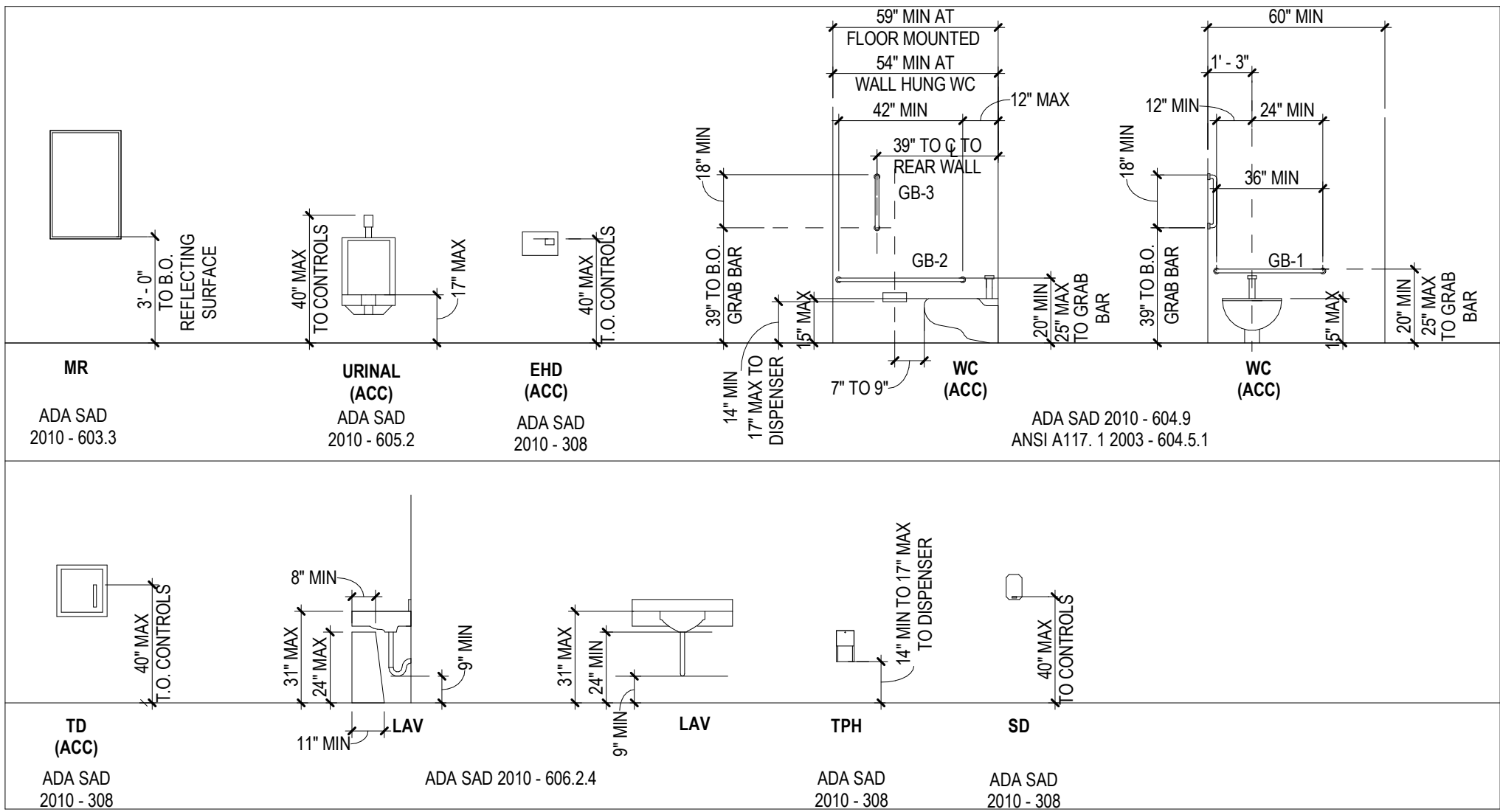
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Project No:
1935.03

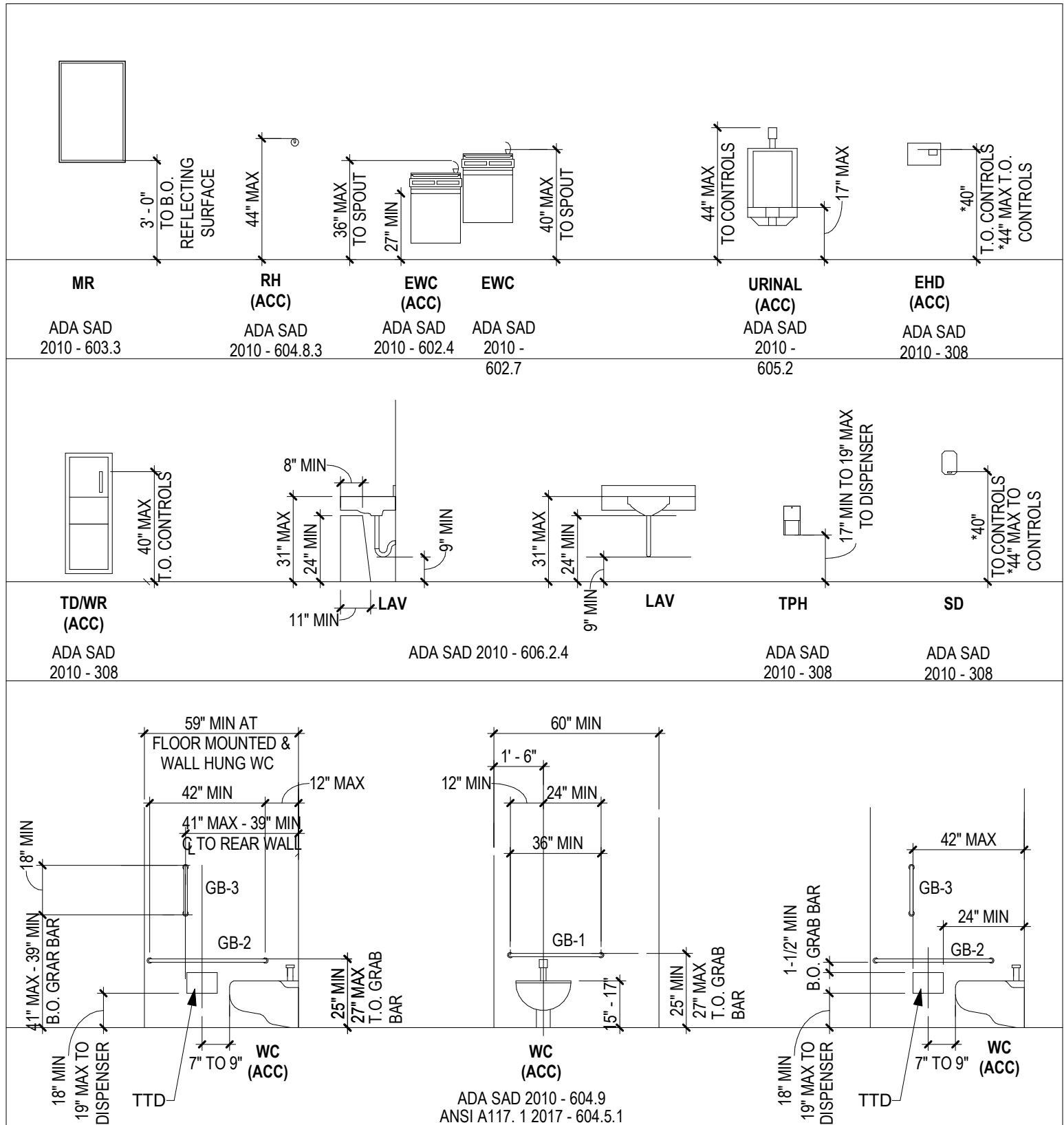
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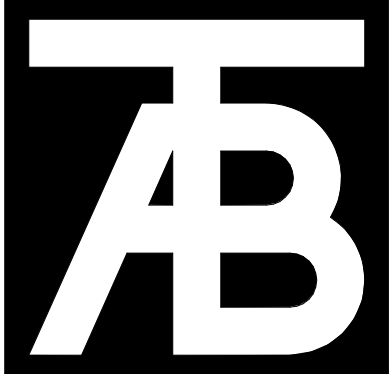
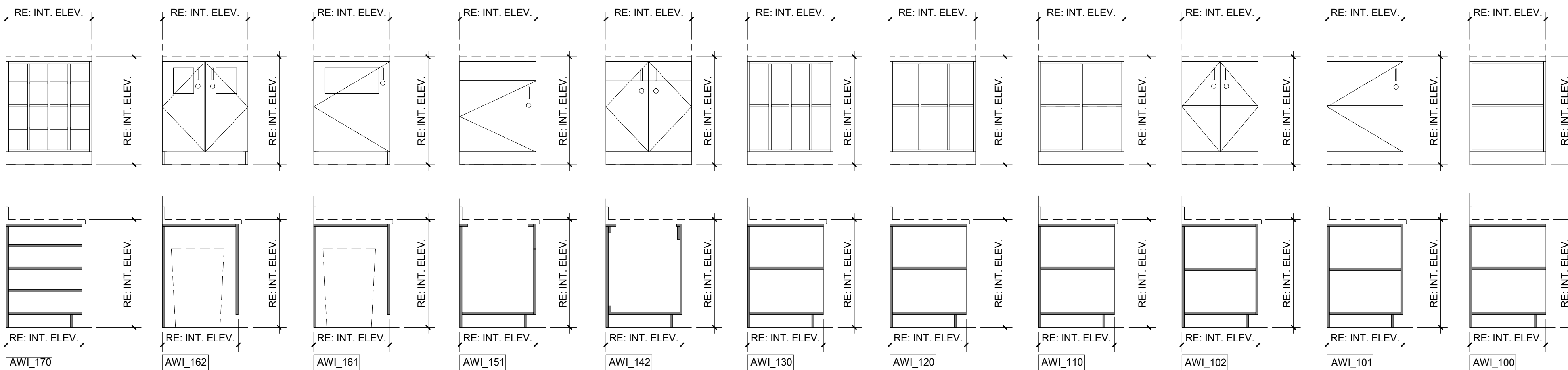
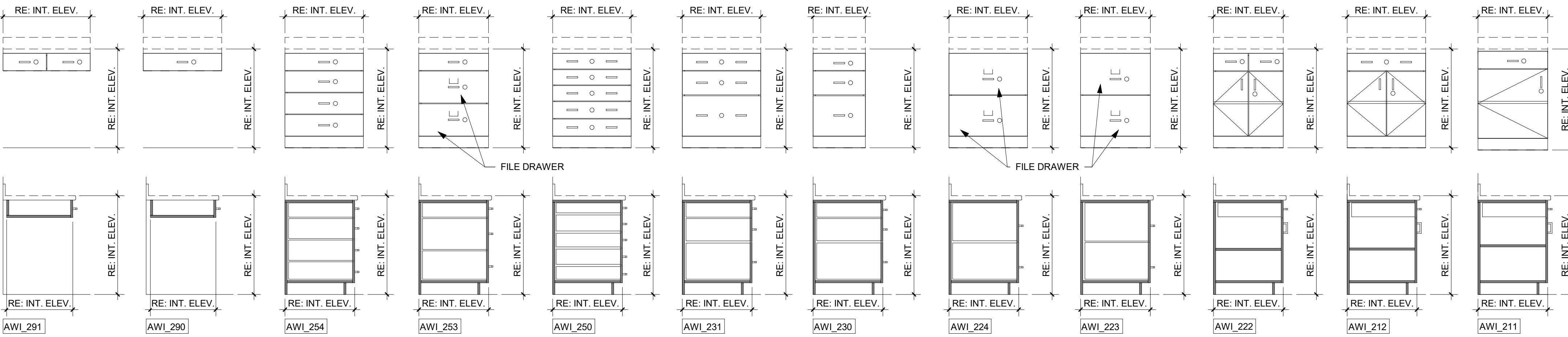
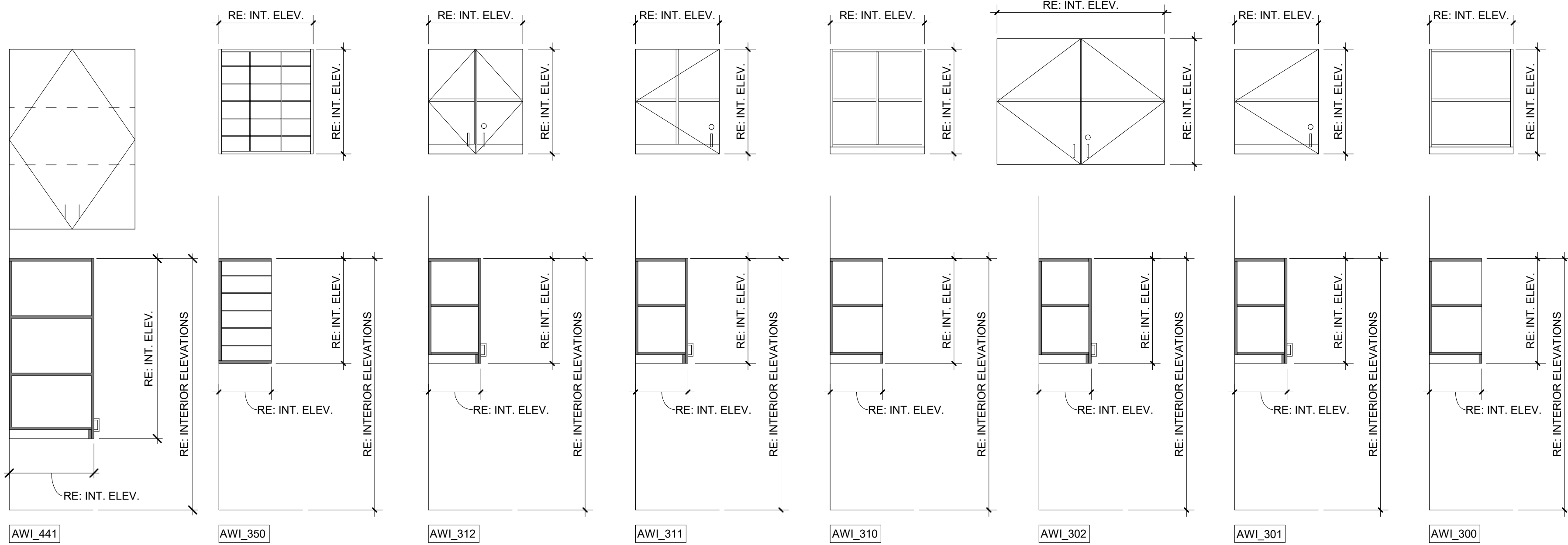
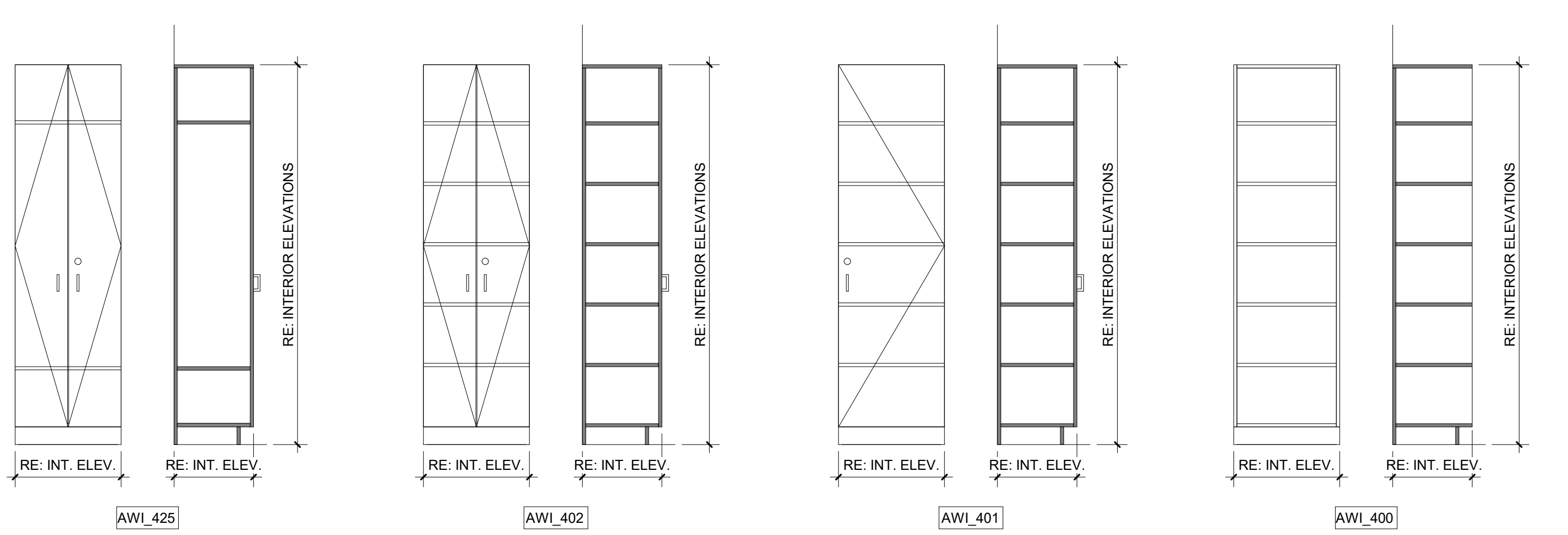
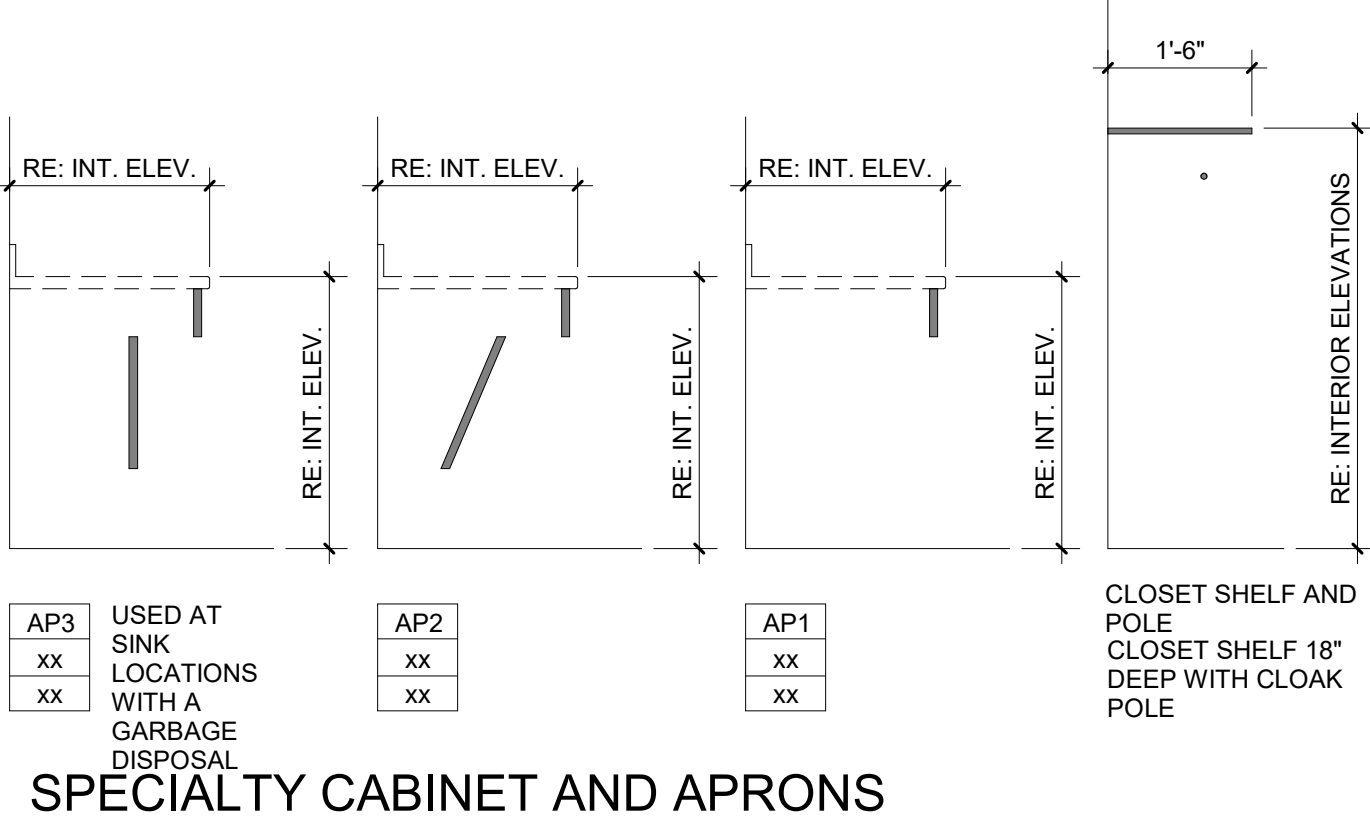
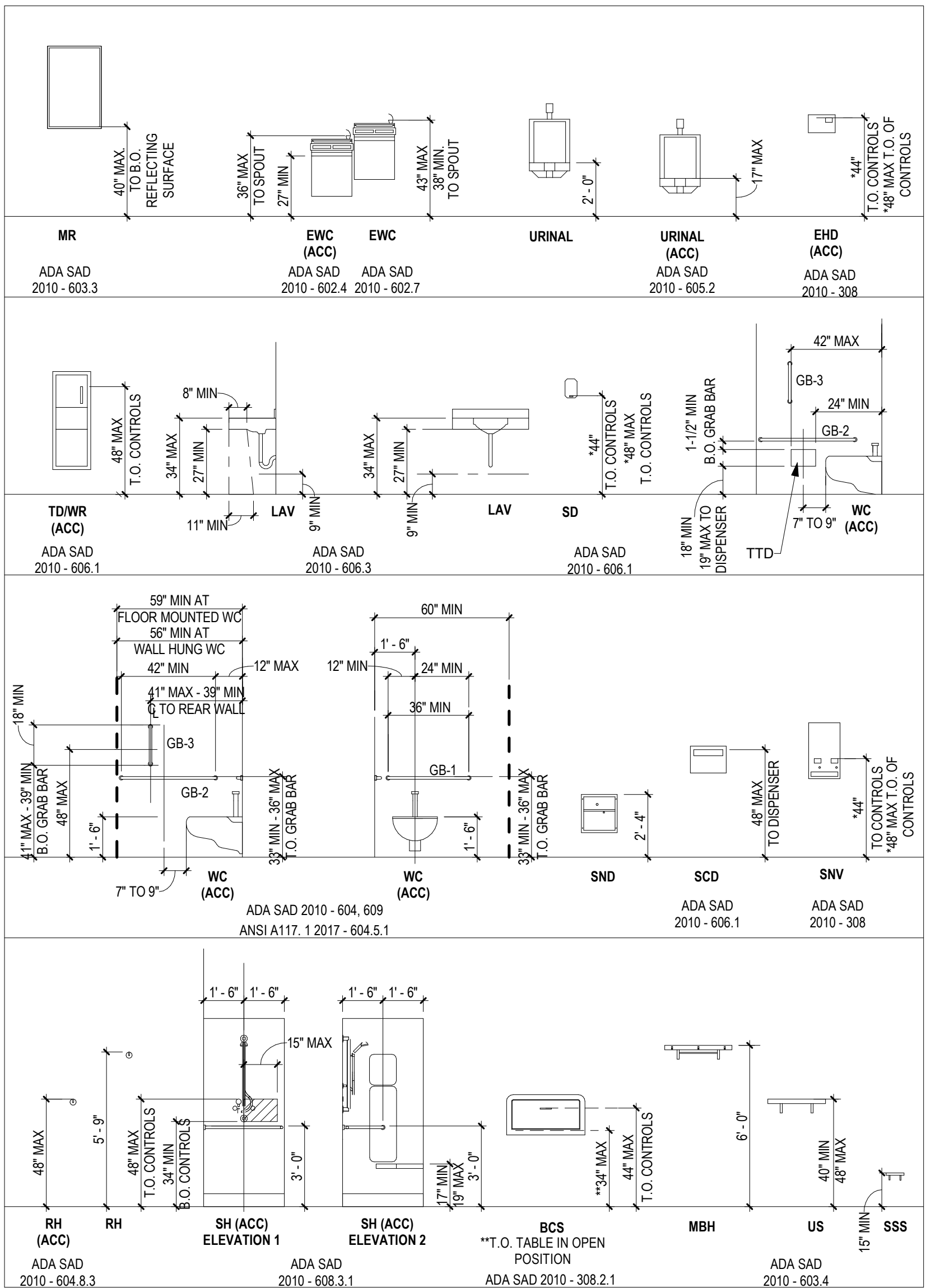
CHILDREN MOUNTING HEIGHTS (AGES 5 THROUGH 8)



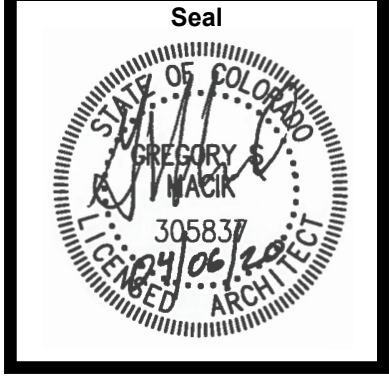
CHILDREN MOUNTING HEIGHTS (AGES 9 THROUGH 12)



ADULT MOUNTING HEIGHTS



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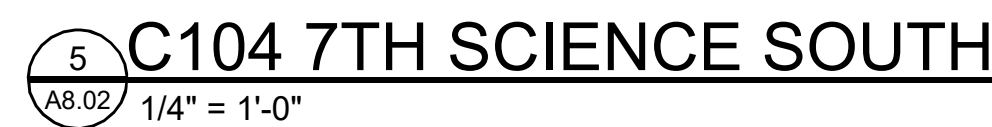
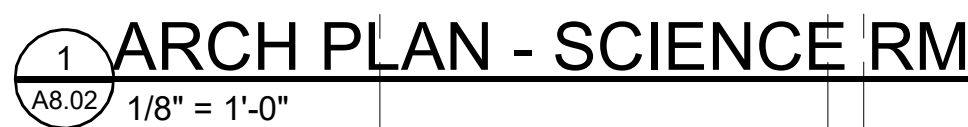
Revisions:		
No	Description	Date

Issue Dates:
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Sheet Title:
Restroom and Typ Cabinet Elevations

Project No:
1935.03

Sheet No:
A8.01



Keynote Legend	
Key Value	Keynote Text
A208	INSTALL NEW CASEWORK WITH UPPER/LOWER CABINETS, SINKS REF INTERIOR ELEVATIONS
A215	INSTALL NEW SOUND PROOF PARTITION WALL SYSTEM
A218	INSTALL NEW TACKBOARDS WITH PROJECTABLE/MAGNETIC WHITEBOARD ON TEACHING WALL. REF DETAIL 2/A5.20 AND SEE PLANS FOR SIZES
A262	NEW EPOXY COUNTERTOPS WITH INTEGRAL EPOXY SINKS



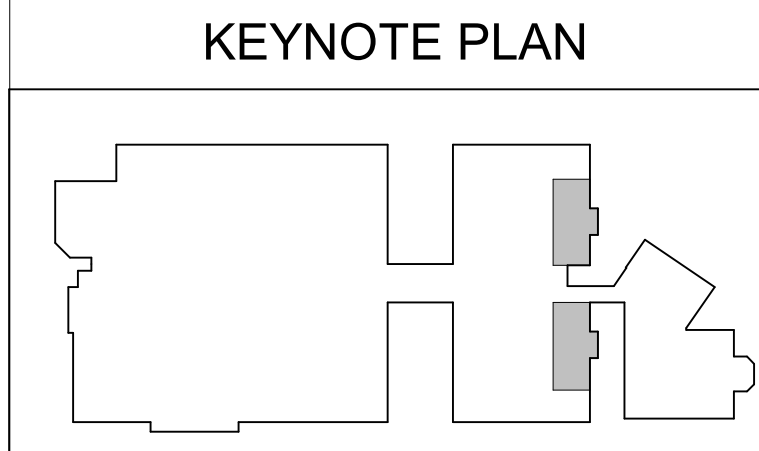
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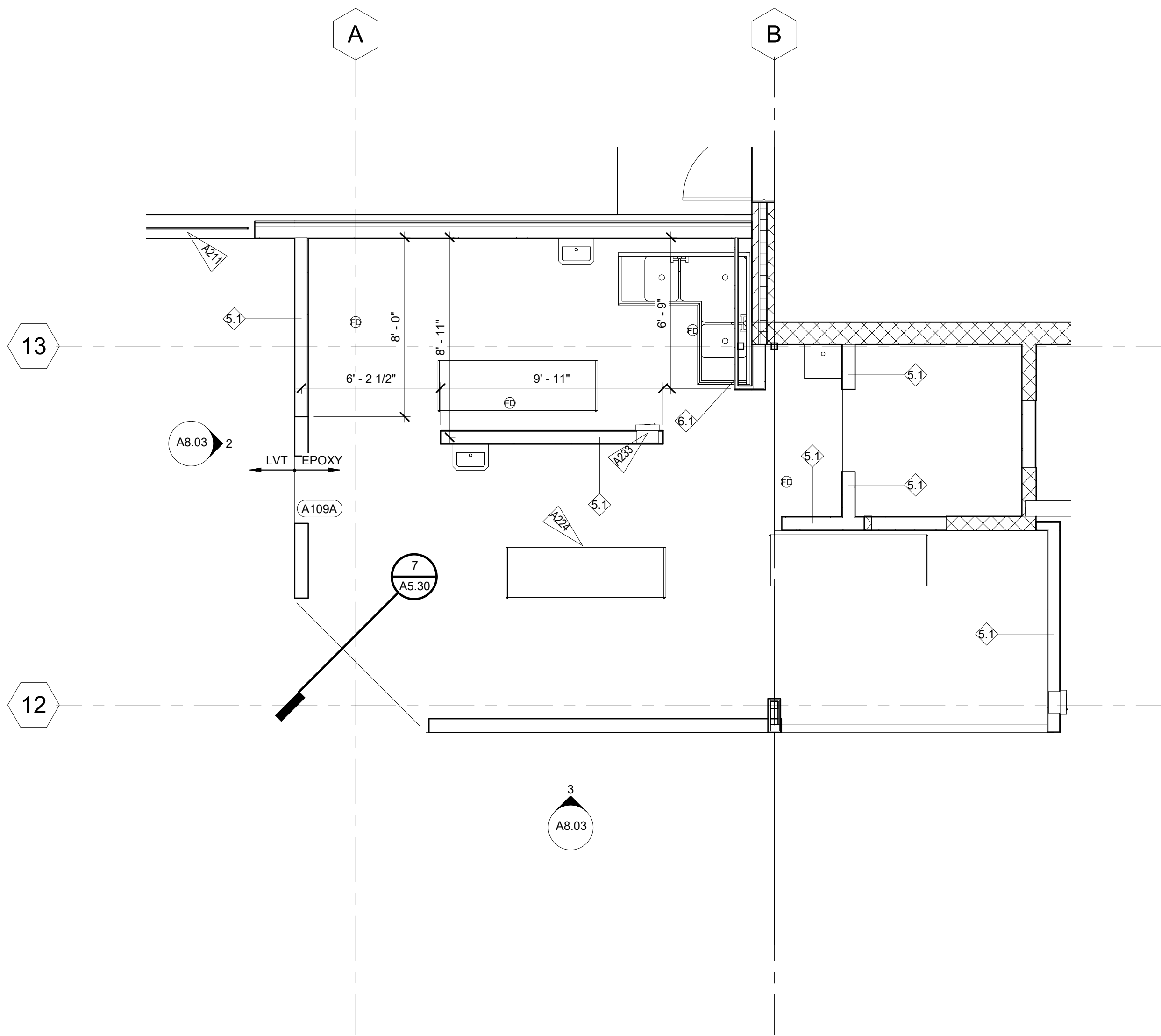
Sheet Title:

**Science
Classroom
Interior
Elevations**

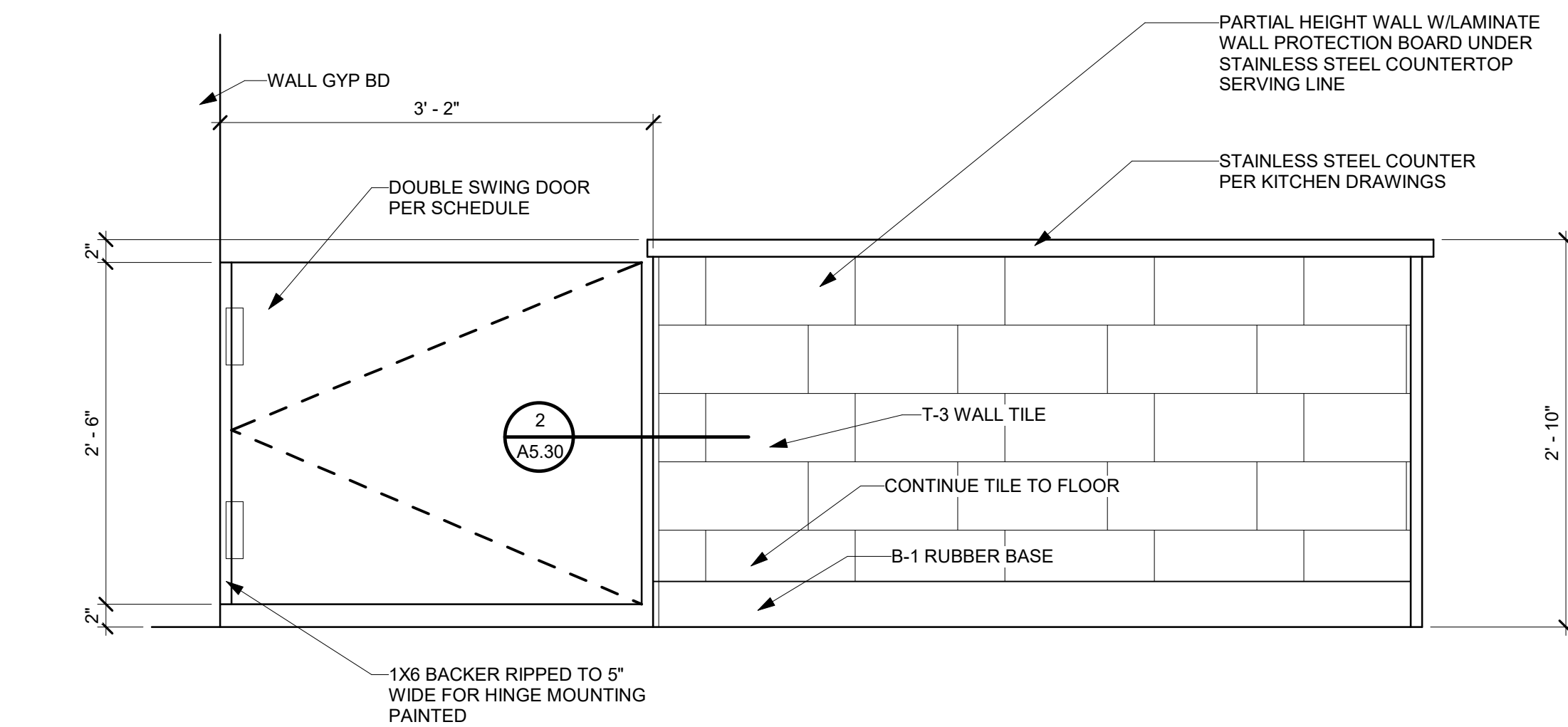
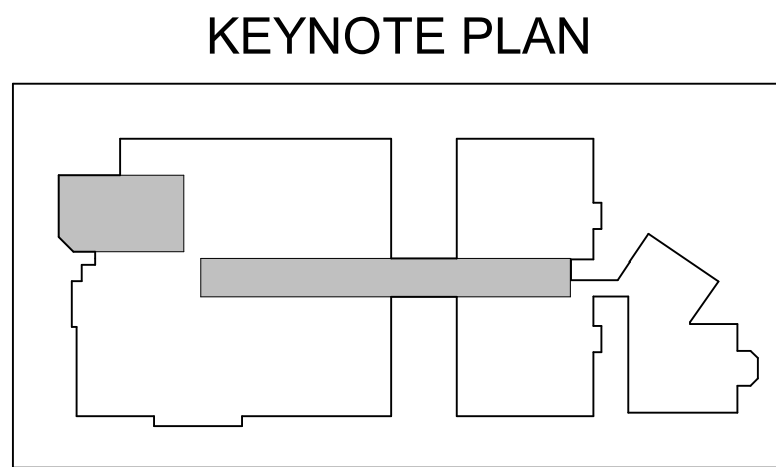
Project No:
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Sheet No:
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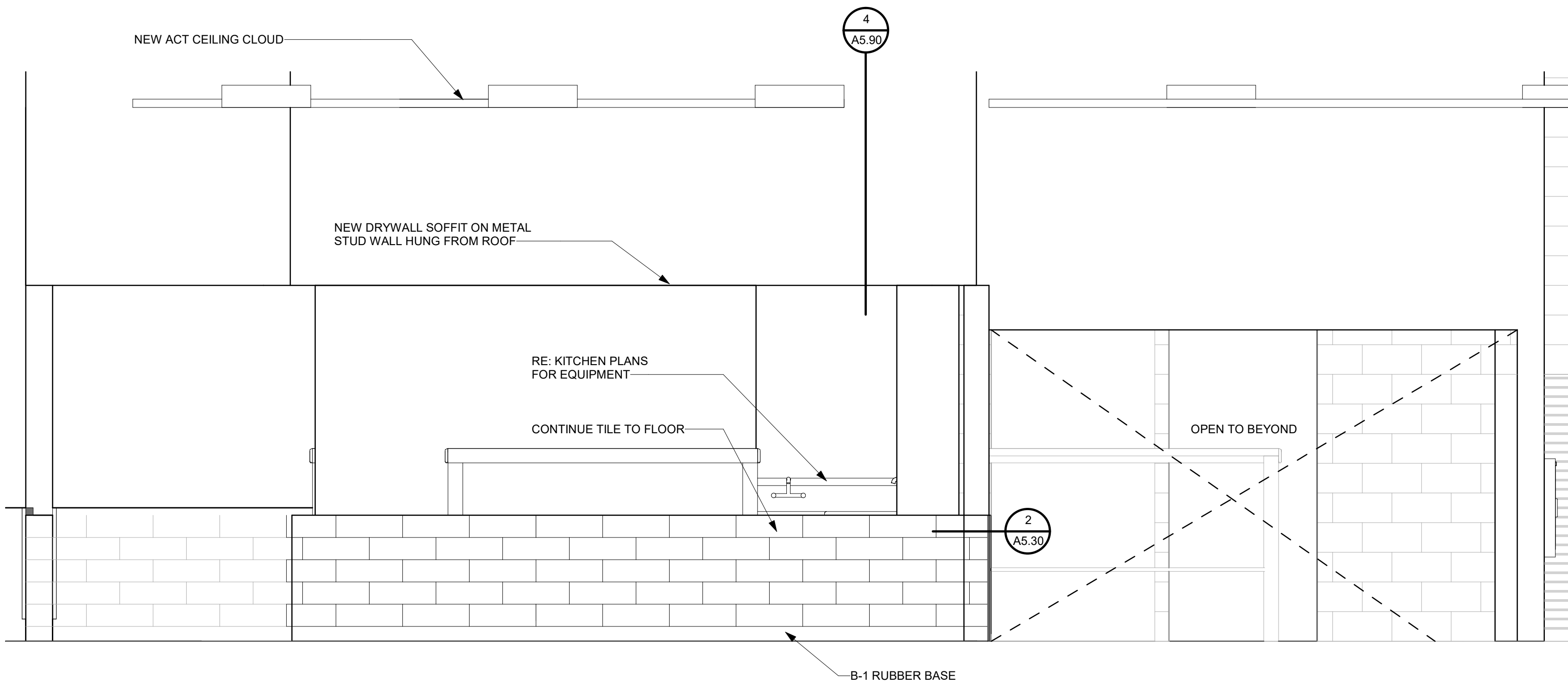




1 CAFETORIUM PLAN
A8.03 1/4" = 1'-0"



2 SERVING LINE SWING DOOR
A8.03 1" = 1'-0"



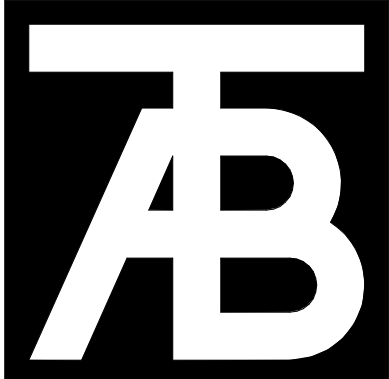
3 SERVING LINE INE BASE
A8.03 1/2" = 1'-0"

NOTES:

INTERIOR ELEVATION NOTES:

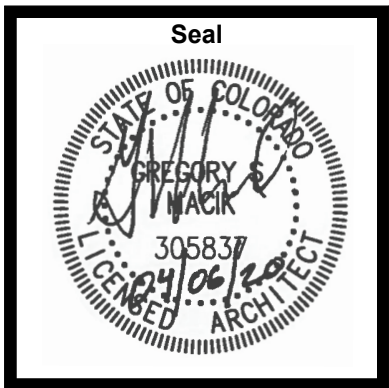
- DO NOT SCALE DRAWINGS.
- VERIFY EQUIPMENT ROUGH IN DIMENSIONS WITH MANUFACTURER
- ALL DIMENSIONS ARE TO FACE OF CONCRETE, MASONRY, OR FACE OF GYPSUM BOARD, UNLESS OTHERWISE NOTED.
- EQUIPMENT (SHOWN DASHED) SHOWN FOR COORDINATION ONLY. REFER TO EQUIPMENT DRAWINGS OR SPECIFICATIONS AND DIMENSIONS.
- REFER TO SHEET A0.10 FOR TYPICAL MOUNTING HEIGHTS.

Keynote Legend	
Key Value	Keynote Text
A211	NEW WINDOW SOLID SURFACE SILLS
A224	INSTALL NEW EPOXY FLOORING
A233	INSTALL NEW SEMI RECESSED FIRE EXTINGUISHER CABINET, NO MORE THAN 75" APART, FULLY RECESSED CABINET IN GYM



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Sheet Title:
**Cafeteria
Interior
Elevations**

Project No:
1935.03

Sheet No:
A8.03

STANDARD ABBREVIATIONS	
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECT / ARCHITECTURAL
BTM	BOTTOM
BETW	BETWEEN
BF	BOTTOM OF FOOTING
BL	BRICK LEDGE
BLDG	BUILDING
BLOCK	BLOCKING
BRG	BEARING
BW	BOTTOM OF WALL
CFS/CFMF	COLD FORMED STEEL/COLD FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CLP	COMPLETE JOINT PENETRATION
CLEAR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DAS	DEFORMED ANCHOR STUD
DL	DEAD LOAD
DN	DOWN
DT	DRAG TRUSS
DWG	DRAWING
EACH	EACH
EAF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQUL	EQUAL
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
(E)	EXISTING
FD	FLOOR DRAIN
FND	FINISHED FLOOR
FF	FOUNDATION
FTG	FOOTING
FV	FIELD VERIFY
GAUVZ	GALVANIZED
GC	GENERAL CONTRACTOR
GET	GABLE END TRUSS
GL	GLULAM BEAM OR COLUMN
GRDR	GRIDDER TRUSS
HAS	HEADED ANCHOR STUD
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HGT	HEIGHT
HT	HIP TRUSS
IBC	INTERNATIONAL BUILDING CODE
INSD	INSIDE FACE
J	JUNCTION
K	KIPS
LL	LIVE LOAD
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NCL	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON-CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PEWRT	PRE-ENGINEERED WOOD ROOF TRUSS
PJP	PISTON JOINT PENETRATION
PL	PLATE
PLWD	PLYWOOD
QTY	QUANTITY
R	RADIUS
RD	ROOF DRAIN
REINF	REINFORCEMENT
REQD	REQUIRED
RO	ROUGH OPENING
SCHED	SCHEDULE
SHT	SHEET
SHTG	SHEATHING
SL	STONE
SLB	SHORT LEGS BACK-TO-BACK
SOG	SLAB ON-GRADE
SP	SPACE(S)
SPC	SPECIFICATIONS
STD	STANDARD
STR	STIFFENER
STRUC	STRUCTURAL
SYM	SYMMETRICAL
TC	TOP OF CONCRETE
TF	TOP OF FOOTING
THK	THICKNESS
TL	TOP OF LEDGE
TM	TOP OF MASONRY
TP	TOP OF PLATE
TS	TOP OF STEEL
TW	TOP OF WALL
T&B	TOP AND BOTTOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VT	VALLEY TRUSS
W	WITH
WD	WOOD
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT
#	POUNDS

DEFERRED SUBMITTALS

THE DESIGN OF THE FOLLOWING BUILDING COMPONENTS SHALL BE TREATED AS DEFERRED SUBMITTALS. ALL ASSOCIATED DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY THE ENGINEER RESPONSIBLE FOR THEIR PREPARATION. AFTER REVIEW, THE ENGINEER-OF-RECORD SHALL FORWARD THE DEFERRED SUBMITTAL DOCUMENTS TO THE BUILDING DEPARTMENT. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

- STEEL BAR JOISTS.
- COLD FORMED METAL FRAMING.
- CURTAIN WALL SYSTEMS

GENERAL NOTES:

- All work shall conform to the minimum standards of the International Building Code, 2015 edition with Routt County Amendments.
- Design Loads
 - Dead
 - Roof superimposed dead load 20 psf
 - Mechanical equipment actual weight

Roof Snow Load
Snow Criteria:
Pg = 90 psf, Pf = 72 psf, Ce = 1.0, Ct = 1.0, Is = 1.1

Occupancy Category III

Wind Criteria:
120 mph (3 second gust, Ultimate) 90 mph (Nominal), Exposure C

COMPONENTS AND CLADDING WIND PRESSURES ^{1,2}				
	Effective Area			
Zones ³	10 sf	20 sf	50 sf	100 sf
Zone 1 - Roof Interior	32.1 (19.3)	31.3 (18.8)	30.2 (18.1)	29.4 (17.7)
Zone 2 - Roof Edge	53.9 (32.3)	48.2 (28.9)	40.6 (24.4)	34.8 (20.9)
Zone 3 - Roof Corner	81.1 (48.7)	67.2 (40.3)	48.7 (29.2)	34.8 (20.9)
Zone 4 - Wall Typing	34.8 (20.9)	33.3 (20.0)	31.5 (18.9)	30.0 (18.0)
Zone 5 - Wall Corner	43.1 (25.8)	40.1 (24.1)	36.3 (21.8)	33.3 (20.0)
Parapet	108 (65)	100 (60)	91 (55)	83 (50)

- Footnotes:
- Pressures shown are determined using ASCE 7-10 and are ultimate with service level pressures shown in parentheses.
 - Refer to details for wind loading on miscellaneous rooftop structures, etc. Roof overhangs shall be designed for applicable component and cladding loads per Figure 30.10.1.
 - Refer to Figure 30.4.1 through 30.6-1 in ASCE 7-10 for description of each zone.

Seismic Criteria
Site Class D, Design Category B, Equivalent Lateral Force Procedure
Seismic Force Resisting System = Steel Ordinary Concentrically Braced Frames
R = 3.14, Fa = 1.6, Fv = 2.4, Ss = 0.27, Si = 0.074, SDS = 0.285, SD1 = 0.118, Cs = 0.88, Ie = 1.25, V = 58 kips

- The frost depth is 48 inches. All foundations shall be deeper than this.
- All omissions or conflicts between the various elements of the working drawings and/or specifications shall be brought to the attention of the Architect/Engineer before proceeding with any work so involved.
- Contractor must check all dimensions, framing conditions, and site conditions before starting work. Architect/Engineer shall be notified immediately of any discrepancies or possible deficiencies.
- A detail, section, elevation, etc. reference may be indicated only on a structural construction drawing, but is to be used at all like and similar construction conditions.
- No modification shall be made to any structural member without the approval of the Architect/Engineer. This also applies to plumbing, electrical and mechanical trades.
- Stability of the structural frame during construction is the responsibility of the General Contractor. The structural frame is not complete until all connections to lateral force resisting elements have been made, inspected as required by the building official and accepted by the Engineer.
- Design, materials, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained for the Owner, Architect/Engineer, and the applicable governing code authority.
- Nothing contained within the contract documents shall relieve the general contractor and the subcontractors of:
 - the responsibility to determine any aspect of how the work is to be performed
 - dealing with matters of safety of personnel
 - safety of property
 - superintending of the work
- construction methods and methods
- The Contractor shall be responsible for all excavation procedures and protection of adjacent property, structures, utilities, etc. in accordance with all national, state and local ordinances.
- The Contractor shall coordinate, review and submit shop drawings that identify all penetrations for all trades through structural walls, slabs, beams and columns. A single drawing of each portion of the structure identifying locations and sizes of all sleeves and blockouts shall be submitted for review and approval four weeks prior to placing concrete in these structural elements. Penetrations not shown on the approved shop drawings will not be permitted in the field.
- Shop drawings and calculations where applicable shall be submitted to the Architect/Engineer for approval prior to fabrication or construction of all structural items including the following: concrete and masonry reinforcement, embedded steel items, structural steel, metal decking, shear stud layout, stairs, pre-engineered wood and pre-engineered cold-formed steel. Approved shop drawings shall be submitted to the local building department by the contractor for record only. Allow 2 weeks for review of shop drawings.
- Special inspection, in accordance with the International Building Code or as required by the construction documents, shall be performed by a qualified inspector from an approved agency. Reports shall be issued to the Architect/Engineer and the Building Department at the completion of each type of work stating whether the work was performed in conformance with the approved plans and specifications. See inspection schedules for specific requirements.
- Do not place backfill against basement walls until basement and first floors are in place or wall has been adequately shored. Forces due to hydrostatic pressure have not been included in the design of foundation walls.
- All mechanical and electrical equipment purchases shall be coordinated with the structural drawings by the General Contractor. This includes equipment size, weight, openings, required support, etc. Any discrepancies shall be brought to the architect's and engineer's attention prior to equipment purchase.
- The structural drawings have been completed using the available information regarding existing conditions. The structural engineer has not field verified any existing conditions. It is the responsibility of the general contractor to field verify the existing conditions and notify the architect and engineer of any discrepancies before proceeding with work.
- The general contractor shall submit any substitution request to the architect and engineer prior to making any changes. The request shall include all information required for the engineer to fully evaluate the substitution and determine any required compensation for the evaluation.
- Any item that is listed as a discrepancy by the independent testing agency shall be kept in a log by the general contractor throughout the project. The log shall include the discrepancy number, date of discrepancy, and description of discrepancy. The general contractor shall contact the engineer in a timely manner to address each discrepancy and keep a record of the required corrections. The letter of substantial completion provided by the engineer cannot be released until every item listed in the discrepancy log has been addressed and resolved.
- For any item that requires a change or correction due to contractor error or deficiency in construction, the contractor shall submit plans, details, and calculations for the proposed solution. These shall be reviewed by the architect and engineer prior to completion of the work. Some corrections may require submitted documentation to be stamped and signed by a professional engineer who is registered in the project jurisdiction.
- The contractor shall not stockpile any building materials or equipment in a manner that will exceed the load carrying capacity, cause damage, or create excessive deflection to any structural element. The contractor shall contact the engineer for evaluation of locations where it may be necessary for heavy equipment or building material stockpiles prior to placement of these items on any structural element.

SPREAD FOOTING FOUNDATIONS

- All foundation design and construction shall be accomplished and performed in accordance with the Soils Report as prepared by NWCC, report number 19-11673 dated 12/12/2019. This Soils Report is hereby made a part of these General Notes and all recommendations therein shall be considered as minimums.
- All foundation excavations, compaction, fill material, testing and inspection of foundation bearing strata shall be performed under supervision of a Licensed Geotechnical Engineer. Inspections shall be performed prior to placement of reinforcement and pouring of concrete.
- Contractor shall provide for de-watering of excavations to remove water from any source prior to pouring concrete.
- Do not place concrete for foundation on frozen soil.
- Allowable bearing pressure used in design is 2500 psf.
- Lateral earth pressure used in the design of retaining walls backfilled with on site soils:

Active	45 psf/ft
At rest	55 psf/ft
Coefficient of Friction	0.4

CONCRETE:

- Concrete work shall conform to all requirements of the International Building Code and ACI 318, Building Code Requirements for Structural Concrete, latest approved editions.
- Design mixes shall provide concrete with the following properties as indicated on drawings and schedules:

CONCRETE MIX MATRIX							
Mix Type	Intended Use of Concrete	Compressive Strength (28 days)	Max. W/C Ratio	Max. Agg. Size ²	Slump Limits ³	Cement Type	Air Content ⁴
A	Foundation walls, grade beams & footings	4500 psi	0.53	1"	3-5"	I / II	4%-7%
B	Interior slab-on-grade	3000 psi	0.53	3/4"	3-5"	I / II	
C	Exterior slab-on-grade and parking slab-on-grade	4500 psi	0.45	3/4"	3-5"	I / II	4%-7%
D	Other concrete	3000 psi	0.50	3/4"	3-5"	I / II	4%-7%

- Footnotes:
- Air entraining admixture
 - Normal weight aggregate unless noted otherwise
 - Range indicates minimum and maximum limits

- Use accelerating admixtures in cold weather only when approved by Architect/Engineer. Use of admixtures will not relax cold weather placement requirements. Do not use calcium chloride. Use set retarding admixtures during hot weather only when approved by Architect/Engineer.
- Prepare concrete mix designs for each type and strength of concrete, using either laboratory trial batch or field experience methods as specified in ACI 301. If trial batch method is used, use an independent testing facility acceptable to Engineer for preparing and reporting of proposed mix designs.
- Submit written reports to Engineer of each proposed mix design at least 15 days prior to start of work. Do not begin concrete production until Engineer has reviewed mix designs.
- Portland Cement shall conform to ASTM C-150, Type I / II. Aggregate for normal weight concrete shall conform to all requirements and tests of ASTM C33. Aggregate for lightweight concrete shall conform to all requirements and tests of ASTM C330. Concrete mixing operations, etc., shall conform to ASTM C94 and ACI 304.
- Clear concrete coverage for reinforcing bars shall be as follows unless noted otherwise:

Concrete exposed in earth without forms.....	3"
Concrete poured in forms but exposed to earth or weather: <ul style="list-style-type: none">#5 bars or smaller.....Bars larger than #5.....	1 1/2" 2"
Concrete not exposed to earth or weather: <ul style="list-style-type: none">Slabs, walls and joists.....Beams and column bars.....	3/4" 1 1/2"

(principal reinf., ties and stirrups)
- All top reinforcing shall terminate with standard hooks at ends of slabs, construction joints, beams, walls, and foundations unless noted otherwise.
- Non-shrink grout shall conform to ASTM C1107.
- Water-reducing admixtures shall conform to ASTM C494, and be used in strict accordance with the manufacturer's recommendations. An air-entraining agent conforming to the ASTM C260 shall be used in all concrete mixes for work which is exposed to weather.
- Cracking of concrete slabs due to shrinkage is expected. The general contractor shall anticipate repairing cracks in all slabs but particularly at the parking levels. Rout and seal all cracks 0.01 inch wide and greater as described in the specifications.
- Embedded conduits, pipes, and sleeves in concrete:
 - Any and all conduits, pipes, and sleeves embedded in structural concrete shall be shown in plan or thoroughly described in writing and provided to the Structural Engineer for written approval a minimum of four weeks prior to installation.
 - All embedded items shall be located so as to not impair the strength of the construction of the concrete member.
 - Contractor shall coordinate the installation of all embedded items and penetrations. Cost of additional reinforcement or where conduit is to be provided with Schedule 40 uncoated or galvanized steel pipe (ASTM 53) shall be borne by the contractor.
 - All embedded items shall conform to the following, unless otherwise directed by the Structural Engineer or shown on the structural drawings:
 - Concrete slabs on grade:
 - Horizontal conduit shall not be embedded within a slab on grade.
 - Concrete walls:
 - Conduits shall not be embedded horizontally in any wall, length wise.
 - Conduits shall not be embedded vertically in any wall less than 8" thick.
 - For other conditions, proposed conduits less than or equal to 1 1/2" outside diameter shall conform to the following:
 - No embedment shall disrupt the placement of the reinforcing steel.
 - The conduit shall be placed between vertical reinforcement layers. The conduit shall be placed in the middle third of the wall for single layer vertical reinforcement.
 - All blockouts in foundation walls and footings must be approved by the Structural Engineer prior to construction.
 - All concrete shall be consolidated by vibration, spading, rodding, or tamping so that concrete is thoroughly worked around the reinforcement and embedded items and into corners of forms without segregation of materials.
 - Provide 3/4" chamfers at all exposed corners.
 - Provide 2- #5 bars (1 each face) with 2'-0" projection around all openings greater than 10" in any dimension in concrete slabs and walls, unless noted otherwise.
 - Provide 2- #5 bars at all reentrant and opening corners.
 - Control joints in concrete:
 - Control joints shall be provided in all slabs-on-grade at a maximum spacing of 10'-0" OC for 4" slabs and 12'-0" OC for 5" slabs, unless noted otherwise. Joints shall be 1/8" wide x (thickness/4)" deep continuous sawed joint or pre-molded joint. Joints shall be provided at all column centerlines, corners and ends of walls, re-entrant corners and any other areas with high crack potential. Proposed joint locations shall be submitted to the architect for approval prior to completion of work.
 - Slabs, walls, footings and beams shall not have joints in a horizontal plane. Any stop in concrete work must be made at quarter point of span with vertical bulkheads and horizontal keys, unless otherwise shown. All construction joints shall be as detailed or as approved by the Engineer.
 - Refer to Architectural drawings for reveals, areas of textured concrete or special finishes, items required to be cast into the concrete, curbs and slab depressions.
 - Concrete tolerances shall be as specified in ACI 117 and as follows:

Tops of walls and columns.....	-3/4", +0"
Plumbness.....	1/4" in 10 feet, 1" maximum total
Plan alignment.....	1/2" in 20 feet, 1" maximum total
Cross-sectional dimension.....	-1/4", +1/2"
Size and location of sleeves and blockouts.....	-1/4"
Slab and beam soffits.....	1/4" in 10 feet, 3/4" maximum total
 - The Contractor shall design all forms and supporting shores in conformance with ACI 347. Design shall include rate and method of placing concrete and construction loads, including vertical, horizontal, and impact loads. Forms shall be substantial and sufficiently tight to prevent leakage of mortar and properly brace or tied to maintain position and shape.
 - Forms shall be removed in such a manner as to not impair safety and serviceability of the structure. All concrete to be exposed by form removal shall have sufficient strength not to be damaged thereby. Restore until 28 days after placement, and for full duration where construction loads exceed specified service loads. Restoring shall conform to ACI 347.

GENERAL NOTES

REINFORCING STEEL

- Reinforcing steel shall conform to ASTM A615, Grade 60. Reinforcing to be welded or field bent shall be ASTM A706, Grade 60.
- Welded wire reinforcement (WWR) shall conform to ASTM A185, Fy=65 ksi. WWR must lap one full mesh plus 2" at end and laps, but not less than 6" and shall be wired together. WWR shall be placed in the center of slabs-on-grade or in the center of the concrete thickness above the deck for slabs on form deck.
- Welding of reinforcing steel shall conform to AWS D1.4, using proper low hydrogen electrodes. All bars to be welded shall conform to ASTM A706.
- All bars in concrete shall be lapped in accordance with the "Concrete Reinforcing Tension Lap Splice Length (Class B)" schedule provided in these drawings unless specifically noted otherwise.
- Dowels for walls and columns shall be the same size and spacing as the wall/column reinforcing, unless noted otherwise.
- All reinforcing bar bends shall be made cold with a bar bender at the ACI 318 specified minimum radius.
- Extend and anchor all horizontal bars at corners and intersections to fully develop the bar.
- Detail in accordance with the latest editions of the ACI Detailing Manual and ACI Building Code Requirements for Structural Concrete.
- Provide all accessories necessary to support reinforcing at positions shown on the plan.
- All stirrups shall have a minimum of 2 #4 horizontal reinforcement bars provided as spacers when no other horizontal reinforcing is provided.

STRUCTURAL STEEL:

- All fabrication and erection shall conform to the latest edition of the AISC Manual of Steel Construction.
- A Certified Welder approved by the authority having jurisdiction in accordance with AWS, Structural Welding Code D1.1, shall perform all welding.
- Wide flange shapes shall be ASTM A572, Grade 50, ASTM A36 / A572-50, or ASTM A992.
- Round hollow structural sections shall be ASTM A500 Grade B (42 ksi).
- Square and rectangular hollow structural sections (HSS) shall be ASTM A500 Grade B (46 ksi).
- Pipe sections shall be ASTM A53 Grade B (35 ksi).
- Miscellaneous structural steel such as plates, angles and channels shall conform to multigrade steel (Angles and Plates 36 ksi, Channels 50 ksi).
- All welding electrodes shall conform to ASTM E70XX. The minimum fillet weld size shall be 3/16".
- Headed anchor studs shall conform to ASTM A108 (60 ksi).
- Anchor rods and unfinished rods shall conform to ASTM F1554, Grade 36.
- Bolted connections are to be of high-strength ASTM A325-n bolts, unless noted otherwise. A minimum of two bolts is required for all beam connections. Minimum required connection capacity is 12 kips LRFD factored load unless noted otherwise.
- High-strength bolts shall conform to the provisions of the "Specification for Structural Joints Using ASTM A325 or A490 Bolts", latest edition, as approved by the Research Council on Riveted and Bolted Structural Joints.
- All high-strength bolts in bearing type connections shall be snug tight. The snug tight condition is defined as the tightness that exists when all plates in a joint are in firm contact. A few impacts of an impact wrench or the full effort of a man using an ordinary spur wrench may attain this. All high-strength bolts shown on the drawings as slip critical or subject to tension loads shall be tightened to a bolt tension not less than that given in Table 8.1 for the RCSC Specification for Structural Joints using ASTM A325 or A490 bolts. Tightening shall be done by the turn-of-nut method, by a direct tension indicator, or by properly calibrated wrenches. Provide hardened washers under the nut or bolt head, whichever is the element turned in tightening. Bolts not indicated as slip critical shall not be pre-tensioned.
- Shop drawings for all structural steel indicated on the structural drawings shall be submitted for review to the Structural Engineer prior to fabrication.
- All structural steel exposed to weather shall be hot-dip galvanized, unless noted otherwise.
- All structural steel shall be shop coated with an approved rust inhibitive primer. Do not prime beams that are to receive fireproofing. See specifications for additional galvanizing information.
- No holes other than those specifically detailed shall be allowed through structural steel members. No cutting or burning of structural steel shall be permitted without written consent of the Architect/Engineer.
- All welding of structural steel bars to structural steel members will require continuous inspection by a qualified inspector.
- All members are to be erected with natural mill camber or induced camber up, unless noted otherwise on the plans.
- Steel joists shall be designed, fabricated and erected in accordance with Steel Joist Institute (SJI) Specification. Where steel joists bear on structural steel framing the joint nearest each column on each side of the beam shall be bolted to the beam. Joist bridging shall conform to SJI specifications unless otherwise shown on plans. Joist supplier shall verify that the metal deck, joists, and joist girders meet any size, spacing, support, and/or bridging restrictions imposed by Underwriters Laboratories designated floor or roof systems listed in the architectural drawings.
- Joist Supplier shall submit calculations for all non-uniformly loaded joists.
- Install all required bridging and miscellaneous steel prior to installing deck.
- Connections shall be as shown in schedules and sections in the drawings. Any changes to the connections proposed by the contractor shall be submitted with the structural steel shop drawings. This connection submittal shall include calculations stamped and signed by the contractor's engineer.
- Miscellaneous Structural steel
 - Miscellaneous structural steel includes any steel that is not specifically included in the framing of the building superstructure. Superstructure steel may include beams, columns, trusses, girders, joists, braces and frames.
 - The structural steel supplier shall supply all necessary steel items, whether indicated on the drawings or not, that fulfill the structural design and architectural design intent for the structure. These items may include edge angles, closure angles, deck support, miscellaneous plates, etc.
 - Openings in roof or floor decks with concrete may be as shown on structural, architectural, or MEP drawings. If openings are not dimensioned on structural plans, refer to architectural or MEP drawings. Unless noted otherwise, openings in decks 24"x24" or less shall be reinforced with 1- #5 in concrete above flutes on all four sides of opening. Reinforcement shall extend 2'-0" minimum beyond edge of opening or have a standard hook. All openings shall have 2'-0" minimum clear between them. For any opening that does not meet this requirement, refer to plans and details for required reinforcing.
 - Openings in metal roof deck without concrete may be as shown on structural, architectural, or MEP drawings. If openings are not dimensioned on structural plans, refer to architectural or MEP drawings.

METAL DECKING:

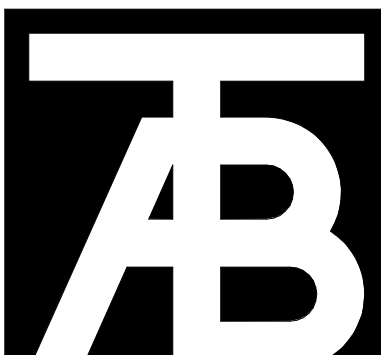
- All metal decking shall conform to ASTM 1008 or ASTM A653 and have minimum yield strength of 33 ksi.
- All composite deck and any deck permanently exposed to weather or moisture shall be galvanized. The galvanized coating shall conform to ASTM A653, G60 or G90.
- Minimum deck gages are shown on plans and are based on 3-span, unshored conditions. Heavier deck gage may be required for conditions other than these, depending on manufacturer's layout.
- Deck welding shall be in accordance with AWS D1.3, "Structural Welding Code-Sheet Steel".
- Contractor shall provide closure plates, flashing and all miscellaneous light gage metal shapes necessary to complete the work. Deck supplier shall provide closures to match adjacent deck gage as required to complete all diaphragm connections.
- Minimum bearing of decking on supports shall be 1 1/2".
- Sheets shall be attached to all supporting steel members by welding as indicated on the drawing and in accordance with manufacturer's recommendations.
- See plans for deck type, gage and fastening. Steel deck shall be fastened to develop a minimum diaphragm shear of 450 pcf.
- Do not suspend hangers for conduit, sprinklers, light fixtures, etc. from the metal decking.
- Metal decking shall be continuous on main roof below all overflamed areas.

COLD-FORMED STEEL FRAMING:

- All metallic coated metal studs 16 gage and heavier shall be formed from steel that corresponds to the minimum requirements of ASTM A1003, Grade 50 Type H. All metallic coated 16 gage tracks and heavier shall be formed from steel that corresponds to the requirements of ASTM A570 or A581, Grade 53.
- All metallic coated 18 gage studs and lighter, all painted track, bridging, end closures and accessories shall be formed from steel that corresponds to the requirements of ASTM A1003, Grade 53, Type H.
- All galvanized metal studs 16 gage and heavier shall be formed from steel that corresponds to the minimum requirements of ASTM A653, Grade 50. All galvanized 16 gage and heavier tracks shall be formed from steel that corresponds to the requirements of ASTM A653, Grade 53.
- All galvanized 18 gage studs and lighter, all painted track, bridging, end closures, and accessories shall be formed from steel that corresponds to the requirements of ASTM A653, Grade 53.
- All painted material and accessories shall be primed with rust inhibitive paint meeting the performance requirements of T-1-P-620C.
- Provide bridging as required by the manufacturer's recommendations.
- Splices in metal studs, joists, and headers will not be permitted.
- All corners shall be framed with a minimum of 3 studs of the same gage as wall studs, unless noted otherwise.
- Multiple studs shall be secured together with either #10 screws at 18" OC staggered or 1 1/2" of weld at each flange @18" OC.
- No holes shall be cut in structural studs, joist or headers without written approval from structural engineer.
- Web stiffeners shall be constructed of unpunched studs or track, gage to match stud below, unless noted otherwise. No holes are allowed in web stiffeners.
- Holes in studs are not allowed within 12" of the top or bottom of the stud.
- Do not bend or cut flanges of studs, joist or headers. Any damaged members shall be replaced.
- The joist web shall be located directly above the stud web unless noted otherwise.
- Bracing straps shall be flat with no bows or splices. They shall be attached to all intermediate studs with 3-#10 screws.
- Coordinate joint locations with plumbing and mechanical penetrations. Provide additional joists as required to maintain joint spacing.
- Minimum effective section properties of metal studs shall be as shown in the current Steel Stud Manufacturer's Association (SSMA) Publication: Fy=50 ksi for 16 gage and heavier section, Fy=33 ksi for 18 gage and lighter sections.
- Metal stud contractor shall submit structural calculations and drawings for all framing members and connections to the Engineer prior to fabrication.

CONCRETE UNIT MASONRY:

- Fabrication and placement of all Concrete Masonry Units and reinforcing shall be in accordance with ACI 530 and ACI 530.1 unless noted otherwise.
- All masonry shall develop a minimum compressive strength, f'm of 1750 psi at 28 days.
- Concrete block shall be hollow, load-bearing concrete masonry units conforming to ASTM C90 lightweight units, unless noted otherwise.
- All masonry shall be reinforced grouted masonry. Grout solid all cells specified on plans. As a minimum, grout all cells which contain rebar, bolts, etc. Grout solid all cells below grade. Grouting shall be stopped 1 1/2" below top of course so as to form a key at the pour joint.
- Mortar shall conform to ASTM C270 Type S with a minimum compressive strength of 1800 psi at 28 days for exterior walls and interior bearing walls, Type M for foundation walls or walls exposed to earth, and Type O or Type S for interior non-bearing walls.
- Metal stud contractor shall submit structural calculations and drawings for all framing members and connections to the Engineer prior to fabrication.
- Grout strength test shall be as set forth in ASTM C1019.
- Aggregate for mortar and grout shall be natural sand and rock conforming to ASTM C144 (mortar) and ASTM C404 (grout).
- Cement shall be Portland Cement conforming to ASTM C150, Type I or I, low alkali.
- All reinforcement, bolts, etc. shall have minimum grout coverage of 3/4". Reinforcing shall be centered in the cell unless noted otherwise. Reinforcing steel shall be secured in place and inspected prior to grouting. Unless otherwise noted, place continuous bond beam at top of all walls, at suspended floors and at roofs. Reinforce bond beam with 2- #5 bars. At floor and roof levels, bond beam reinforcing shall be continuous through control joints. Elsewhere, bond beam reinforcing shall be discontinuous at control joints. Hook reinforcing at end of wall and make continuous around corners. Stop bond beam as required to align with floors and roofs. Lap bond beam 4'-0" at vertical splices.
- Cleanouts shall be provided for all grout pours over 5 feet in height. All grout pours greater than 12" require internal mechanical vibration and reconsolidation. Grout pours 12" or less shall be mechanically vibrated or puddled.
- High lift grouted construction may be used in conformance with IBC requirements.
- Continuous special inspection shall be provided during preparation and taking of any required prisms or test specimens, at the start of laying of masonry units, after the placement of reinforcement, grout space prior to each grouting operation, and during all grouting operations.
- Concrete block shall have attained full design compressive strength prior to placement. Date of manufacture shall be stamped to pallets.
- Concrete block shall be dry at time of placement. Wet or frozen masonry units shall not be placed.
- Provide 1" soil joint between CMU partitions and all vertical concrete surfaces. See architectural drawings for caulking and fire sealing requirements of soft joints.
- Anchored Brick/Stone Veneer:
 - Unless noted otherwise, brick and/or stone veneer shall be anchored as follows:
 - Anchors for veneer shall be two-piece, adjustable anchors with minimum W1.7 wire size. Anchors shall be submitted to architect for approval prior to installation.
 - Anchor spacing
 - Maximum spacing shall be 24" OC vertical and 16" OC horizontal
 - For seismic design categories D, E and F, maximum spacing shall be 16" OC vertical and 16" OC horizontal. See general section for seismic design category.
 - Backing of brick/stone veneer shall be spaced @16" OC maximum. Cold-formed steel backing shall be 18 ga minimum and galvanized. All backing shall be fastened to structural framing with minimum #10 screws.
 - Loose lintels shall be as specified in the Loose Lintel Schedule. All lintels and relief angles shall be galvanized. Provide a 3/8" minimum gap between bottom of relief angle and top of veneer below.



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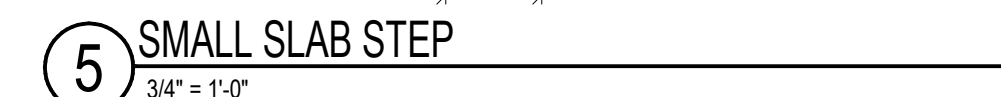
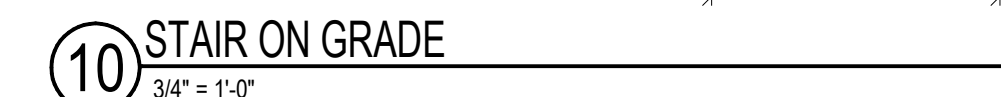
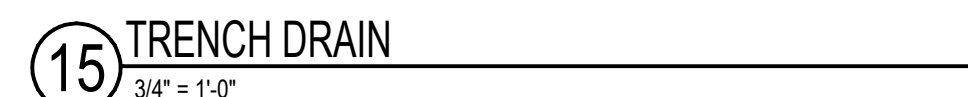
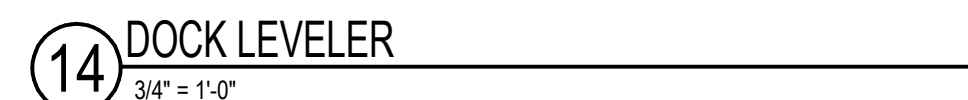
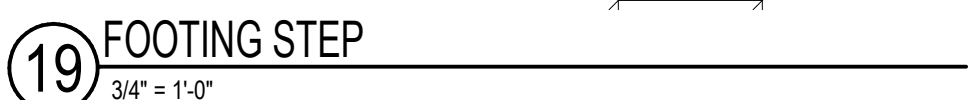
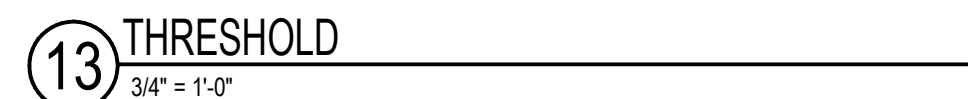
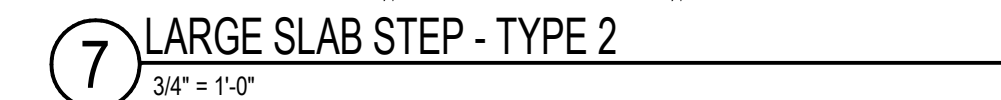
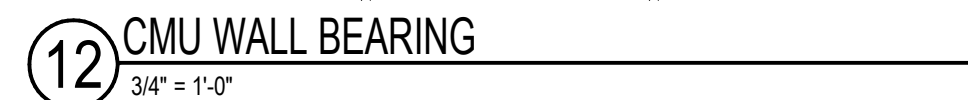
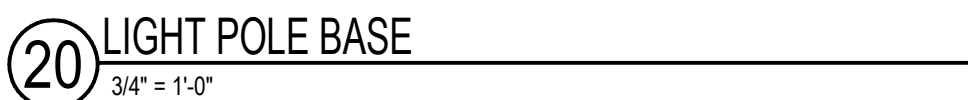
Steamboat Springs Middle School
39610 Amethyst Dr

Revisions:		
No	Description	Date

Issue Dates:
DD's - 02/21/20
95% - 03/30/20
CD's - 04/06/20

Sheet Title:
General Notes

Project No:
TAB-1935.01
JH-20191103



STEEL COLUMN SCHEDULE		
MARK	SIZE	BASEPLATE TYPE
1	HSS4X4X5/16	1
2	HSS5X5X9/16	1
3	HSS5X5X1/2	1
NOTES: 1. PROVIDE 1 1/2" NON-SHRINK GROUT UNDER ALL BASE PLATES BEARING ON CONCRETE		
BASE PLATE SCHEDULE		
<p>TYPE 1</p>		

LOOSE LINTEL SCHEDULE			
OPENING SIZE	LOOSE LINTEL		COMMENTS
	LINTEL	BEARING EACH END	
4'-0" OR LESS	L3 1/2X3 1/4 LLH	6"	
4'-0" TO 6'-8"	L3 1/2X3 1/2X1/4	6"	
6'-8" TO 8'-4"	L5X3 1/2X1/4 LLV	6"	
8'-4" TO 10'-0"	L6X3 1/2X5/16 LLV	6"	
10'-0" TO 11'-4"	WBX15 WITH 1/4" PLATE BOTTOM	8"	
11'-4" TO 19'-4"	SEE PLANS		
NOTES: 1. PROVIDE 1 STEEL ANGLE FOR EACH 4" WIDTH OR LESS OF MASONRY. 2. PROVIDE 1 STEEL BEAM FOR MASONRY WIDTH OF 8" TO 12". 3. FOR OPENINGS 8'-0" WIDE OR LESS, BLOCKS AT BEARING MUST BE SOLID OR HAVE CELLS GROUTED SOLID FOR A HEIGHT OF 10" BELOW BEARING ELEVATION. 4. FOR OPENINGS OVER 8'-0" WIDE, REINFORCE WITH 1-#5 AND GROUT THE MASONRY CELL UNDER LINTEL BEARING SOLID ON EACH SIDE OF THE OPENING. 5. FOR OPENINGS OVER 10'-0", PROVIDE 2-3/4"x1'-0" ANCHOR BOLTS EACH END OF LINTEL. SLOT HOLES IN BEAM, JAMB CELLS SHALL BE SOLID GROUTED AND REINFORCED IN ACCORDANCE WITH GENERAL NOTES, PLANS AND DETAILS. 6. DESIGN ASSUMES A 60 DEGREE LOADING TRIANGLE AND NO LEDGER LOADS OR CONCENTRATED LOADS SUPPORTED BY THE LINTEL. Fm = 1350 psi MIN.			

SINGLE PLATE W/ 3/4"Ø A325-N BOLTS - LRFD								
BEAM TO GIRDER OR COLUMN CONNECTION								
UNCOPED AND TOP COPED								
#"- 3/4"Ø A325-N BOLTS	BEAM SIZES	MIN BEAM WEB THICKNESS	UNCOPED CAPACITY (KIPS)	3" COPE CAPACITY (KIPS)	4" COPE CAPACITY (KIPS)	5" COPE CAPACITY (KIPS)	6" COPE CAPACITY (KIPS)	8" COPE CAPACITY (KIPS)
2	MC8's, MC10's, MC12's, W8x10, W10x12	0.170	29	25	20	16	14	11
2	C8's, C10's, W8x13 AND HEAVIER, W10x15 AND HEAVIER, W10's, W12's W12x14, W12x16	0.230 (W12's≥0.20)	31	31	28	23	19	15
3	W12x19 AND HEAVIER, C12's, C15's, W14's, W16's, W18's	0.230	47	47	42	47	47	42
4	W16's, W18's, W21's, W24's, C18's	0.250	63	63	63	63	63	58
5	W18's, W21's, W24's, W27's, W30's	0.300	79	-	79	79	79	79
6	W21's, W24's, W30's, W33's, W36's	0.350	95	-	95	95	95	95
7	W24's, W27's, W30's, W33's, W36's, W40's	0.395	111	-	-	111	111	111
8	W27's, W30's, W33's, W36's, W40's	0.460	127	-	-	-	127	127
9	W33's, W36's, W40's	0.550	143	-	-	-	143	143
10	W36's, W40's	0.630	159	-	-	-	159	159
HSS MIN WIDTH		MIN WALL THICKNESS	NOTES: 1. LRFD CAPACITIES ARE BASED ON THE AISC MANUAL FOR STEEL CONSTRUCTION - THIRTEENTH EDITION FOR STRENGTH (LRFD) LOADS. 2. Fy OF BEAMS AND GIRDERS = 50 ksi. Fy OF CONNECTION ANGLES = 36 ksi. 3. GIRDER WEB THICKNESS MUST BE ≥ BEAM WEB THICKNESS. 4. INTERPOLATION BETWEEN WEB THICKNESSES GIVEN IS NOT PERMITTED. 5. BEAMS MAY BE SKEWED UP TO 15°.					
HSS3x+ - HSS6x+		0.1875						
HSS7x+ - HSS8x+		0.25						
HSS10x+		0.3125						
HSS12x+		0.375						
HSS14x+ - HSS16x+		0.50						
IF WALL THICKNESS < REQD FOR HSS10 AND UP, USE ANGLE CONNECTIONS								

SINGLE PLATE W/ 3/4"Ø A325-N BOLTS - LRFD							
BEAM TO GIRDER CONNECTION							
DOUBLE COPED							
#"- 3/4"Ø A325-N BOLTS	BEAM SIZES	MIN BEAM WEB THICKNESS	3" COPE CAPACITY (KIPS)	4" COPE CAPACITY (KIPS)	5" COPE CAPACITY (KIPS)	6" COPE CAPACITY (KIPS)	8" COPE CAPACITY (KIPS)
2	W8's, MC10's, MC12's	0.170	12	9	8	6	5
2	W10's, C10's	0.190	19	14	12	10	7
3	W12x14, W12x16	0.200	33	26	21	18	13
3	W12x19 AND HEAVIER, C12's, C15's, W14's, W16's, W18's	0.230	42	33	27	22	17
4	W16's, W18's, W21's, W24's, C18's	0.250	63	62	50	42	32
5	W18's, W21's, W24's, W27's, W30's	0.300	79	79	79	74	57
6	W21's, W24's, W27's, W30's, W33's, W36's	0.350	95	95	95	95	95
7	W24's, W27's, W30's, W33's, W36's	0.395	-	111	111	111	111
8	W27's, W30's, W33's, W36's, W40's	0.460	-	-	127	127	127
9	W30's, W33's, W36's, W40's	0.470	-	-	143	143	143
10	W33's, W36's, W40's	0.550	-	-	-	159	159
11	W36's, W40's	0.600	-	-	-	175	175
NOTES: 1. LRFD CAPACITIES ARE BASED ON THE AISC MANUAL FOR STEEL CONSTRUCTION - THIRTEENTH EDITION FOR STRENGTH (LRFD) LOADS. 2. Fy OF BEAMS AND GIRDERS = 50 ksi. Fy OF CONNECTION PLATES = 36 ksi. 3. GIRDER WEB THICKNESS MUST BE ≥ BEAM WEB THICKNESS. 4. INTERPOLATION BETWEEN WEB THICKNESSES GIVEN IS NOT PERMITTED. 5. 1 1/2" COPE DEPTH. 6. BEAMS MAY BE SKEWED UP TO 30° FROM PERPENDICULAR WITH NO REDUCTION IN CAPACITY OR INCREASE IN WELD SIZE.							

SINGLE ANGLE W/ 3/4"Ø A325-N BOLTS - LRFD					
BEAM TO GIRDER CONNECTION					
TOP COPED ONLY - BEAM UPSET 2 1/2"					
#"- 3/4"Ø A325-N BOLTS	BEAM SIZES	MIN BEAM WEB THICKNESS	MAX COPE LENGTH	LRFD CAPACITY (KIPS)	
2	W12's	0.200	6"	11	
3	W14's, W16's, W18's	0.230	6"	23	
4	W18's, W21's, W24's, C18's	0.300	6"	38	
5	W21's, W24's, W27's, W30's	0.350	10"	54	
6	W24's, W27's, W30's, W33's, W36's	0.395	10"	71	
7	W27's, W30's, W33's, W36's, W40's	0.460	10"	88	
8	W30's, W33's, W36's, W40's	0.470	10"	105	
9	W33's, W36's, W40's	0.550	10"	122	
10	W36's, W40's	0.600	10"	139	
11	W40's	0.630	10"	156	
NOTES: 1. LRFD CAPACITIES ARE BASED ON THE AISC MANUAL FOR STEEL CONSTRUCTION - THIRTEENTH EDITION FOR STRENGTH (LRFD) LOADS. 2. Fy OF BEAMS AND GIRDERS = 50 ksi. Fy OF CONNECTION ANGLES = 36 ksi. 3. GIRDER WEB THICKNESS MUST BE ≥ BEAM WEB THICKNESS. 4. INTERPOLATION BETWEEN WEB THICKNESSES GIVEN IS NOT PERMITTED.					

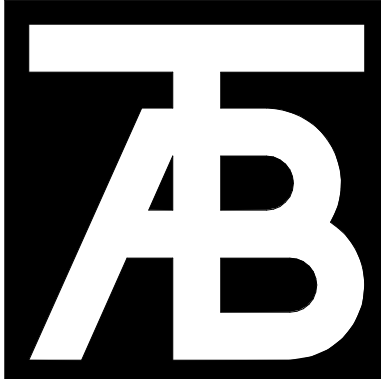
SINGLE ANGLE W/ 3/4"Ø A325-N BOLTS - LRFD							
BEAM TO GIRDER CONNECTION							
DOUBLE COPED							
#"- 3/4"Ø A325-N BOLTS	BEAM SIZES	MIN BEAM WEB THICKNESS	3" COPE CAPACITY (KIPS)	4" COPE CAPACITY (KIPS)	5" COPE CAPACITY (KIPS)	6" COPE CAPACITY (KIPS)	8" COPE CAPACITY (KIPS)
2	W8's, MC10's, MC12's	0.170	12	9	8	6	5
2	W10's, C10's	0.190	11	11	10	8	6
3	W12x14, W12x16	0.200	23	23	19	16	12
3	W12x19 AND HEAVIER, C12's, C15's, W14's, W16's, W18's	0.230	23	23	23	21	16
4	W16's, W18's, W21's, W24's, C18's	0.250	38	38	38	38	32
5	W18's, W21's, W24's, W27's, W30's	0.300	54	54	54	54	54
6	W21's, W24's, W27's, W30's, W33's, W36's	0.350	71	71	71	71	71
7	W24's, W27's, W30's, W33's, W36's	0.395	-	88	88	88	88
8	W27's, W30's, W33's, W36's, W40's	0.460	-	-	105	105	105
9	W30's, W33's, W36's, W40's	0.550	-	-	-	122	122
10	W33's, W36's, W40's	0.600	-	-	-	139	139
11	W36's, W40's	0.630	-	-	-	156	156
NOTES: 1. LRFD CAPACITIES ARE BASED ON THE AISC MANUAL FOR STEEL CONSTRUCTION - THIRTEENTH EDITION FOR STRENGTH (LRFD) LOADS. 2. Fy OF BEAMS AND GIRDERS = 50 ksi. Fy OF CONNECTION ANGLES = 36 ksi. 3. GIRDER WEB THICKNESS MUST BE ≥ BEAM WEB THICKNESS. 4. INTERPOLATION BETWEEN WEB THICKNESSES GIVEN IS NOT PERMITTED.							

SINGLE ANGLE W/ 3/4"Ø A325-N BOLTS - LRFD							
BEAM TO GIRDER OR COLUMN CONNECTION							
UNCOPED AND TOP COPED							
#"- 3/4"Ø A325-N BOLTS	BEAM SIZES	MIN BEAM WEB THICKNESS	UNCOPED CAPACITY (KIPS)	3" COPE CAPACITY (KIPS)	4" COPE CAPACITY (KIPS)	5" COPE CAPACITY (KIPS)	6" COPE CAPACITY (KIPS)
2	MC8's, MC10's, MC12's, W8x10, W10x12	0.170	29	25	20	17	14
2	C8's, C10's, W8x13 AND HEAVIER, W10x15 AND HEAVIER, W12's	0.230 (W12's≥0.20)	31	31	28	23	19
3	W12x14, W12x16	0.200	47	44	44	40	34
3	W12x19 AND HEAVIER, C12's, C15's, W14's, W16's, W18's	0.230	47	-	-	47	44
4	W16's, W18's, W21's, W24's, C18's	0.250	63	-	-	-	63
5	W18's, W21's, W24's, W27's, W30's	0.300	79	-	-	-	79
6	W21's, W24's, W30's, W33's, W36's	0.350	95	-	-	-	95
7	W24's, W27's, W30's, W33's, W36's, W40's	0.395	111	-	-	-	111
8	W27's, W30's, W33's, W36's, W40's	0.460	127	-	-	-	127
9	W30's, W33's, W36's, W40's	0.470	143	-	-	-	143
10	W33's, W36's, W40's	0.550	159	-	-	-	159
11	W36's, W40's	0.600	175	-	-	-	175
NOTES: 1. LRFD CAPACITIES ARE BASED ON THE AISC MANUAL FOR STEEL CONSTRUCTION - THIRTEENTH EDITION. 2. Fy OF BEAMS AND GIRDERS = 50 ksi. Fy OF CONNECTION ANGLES = 36 ksi. 3. GIRDER WEB, COLUMN WEB OR FLANGE THICKNESS MUST BE ≥ BEAM WEB THICKNESS. 4. INTERPOLATION BETWEEN WEB THICKNESSES GIVEN IS NOT PERMITTED.							

SINGLE ANGLE W/ 3/4"Ø A325-N BOLTS - LRFD			
BEAM TO GIRDER OR COLUMN CONNECTION			
UNCOPED AND TOP COPED ONLY			
<p>Technical drawings of beam-to-girder or column connections for single angle with 3/4 inch diameter A325-N bolts. The drawings show uncoped and top coped configurations with dimensions for cope length, bolt spacing, and beam/web thicknesses.</p>			
#"- 3/4"Ø A325-N BOLTS	BEAM SIZES	MIN BEAM WEB THICKNESS	0" TO 8" COPE CAPACITY (KIPS)
2	W8's, W10's, W12's, C8's, C10's, MC8's, MC10's, MC12's,	0.170	11
3	W12's, W14's, W16's, W18's, C15's	0.200	23
4	W16's, W18's, W21's, W24's, C18's	0.250	38
5	W18's, W21's, W24's, W27's, W30's	0.300	54
6	W21's, W24's, W30's, W33's, W36's	0.350	71
7	W24's, W27's, W30's, W33's, W36's, W40's	0.395	88
8	W27's, W30's, W33's, W36's, W40's	0.460	105
9	W33's, W36's, W40's	0.550	122
10	W36's, W40's	0.600	139
11	W40's	0.630	156

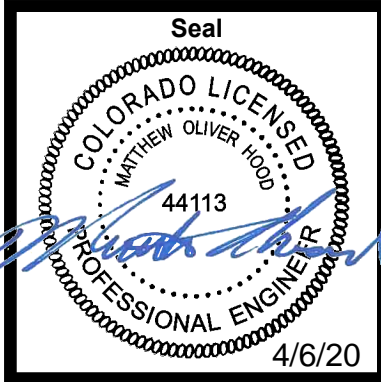
NOTES:

- LRFD CAPACITIES ARE BASED ON THE AISC MANUAL FOR STEEL CONSTRUCTION - THIRTEENTH EDITION FOR STRENGTH (LRFD) LOADS
- Fy OF BEAMS AND GIRDERS = 50 ksi.
- Fy OF CONNECTION ANGLES = 36 ksi.
- GIRDER WEB, COLUMN WEB OR FLANGE THICKNESS MUST BE > BEAM WEB THICKNESS.
- INTERPOLATION BETWEEN WEB THICKNESSES GIVEN IS NOT PERMITTED.



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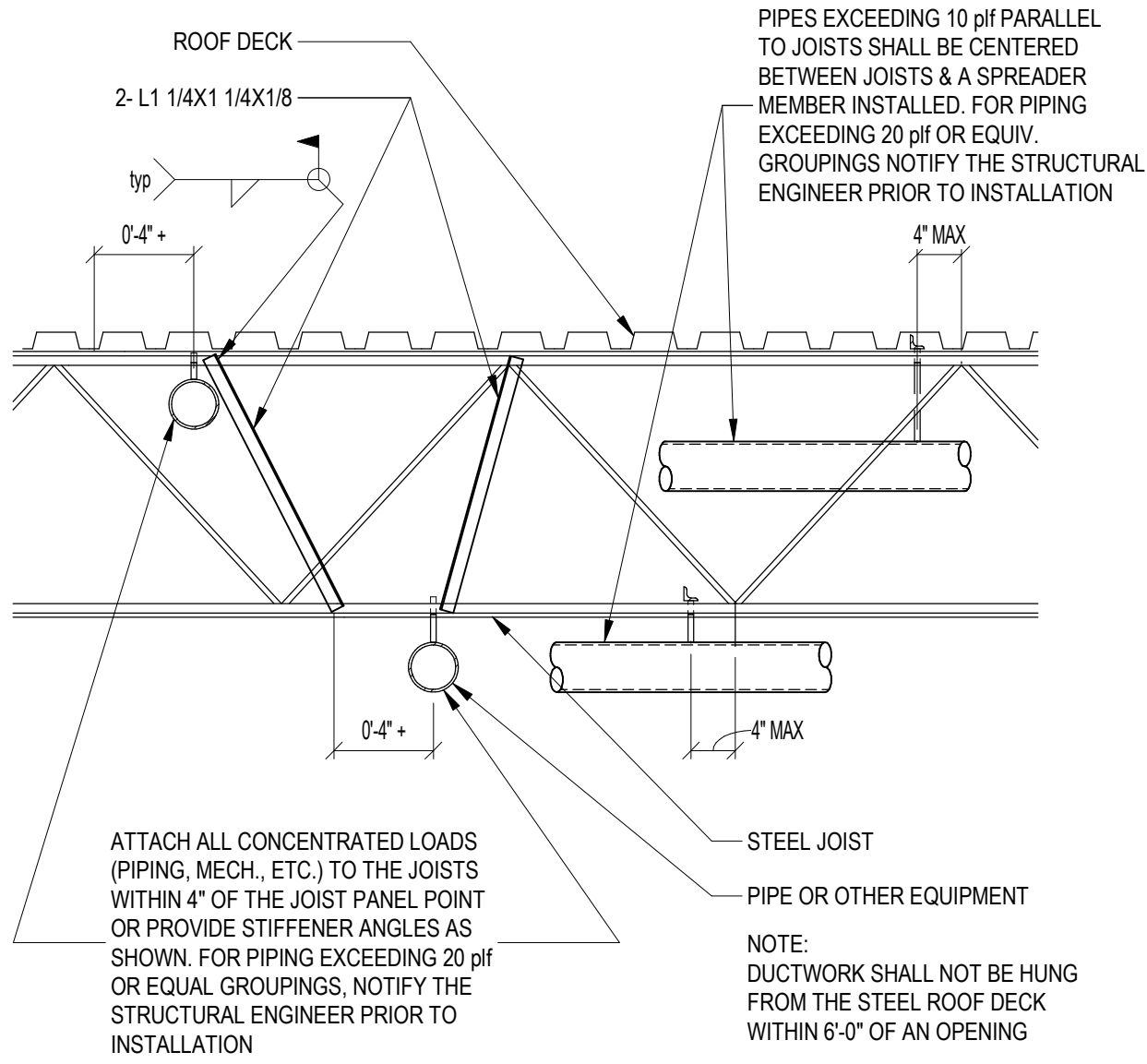
Revisions:		
No	Description	Date

Issue Dates:
 DD's - 02/21/20
 95% - 03/30/20
 CD's - 04/06/20

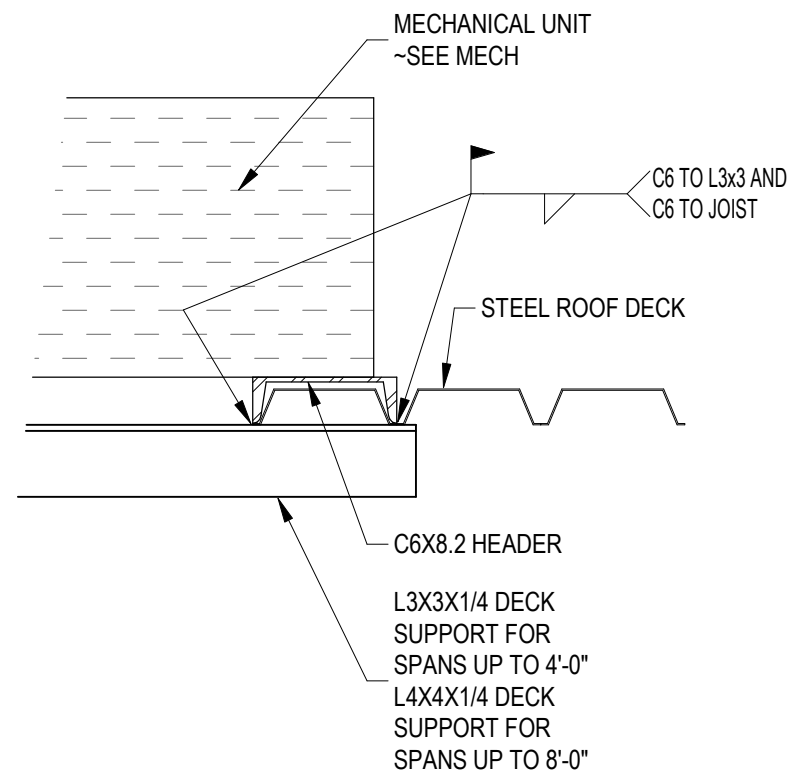
Sheet Title:
Steel Connection Schedules

Project No:
 TAB-1935.01
 JH-20191103

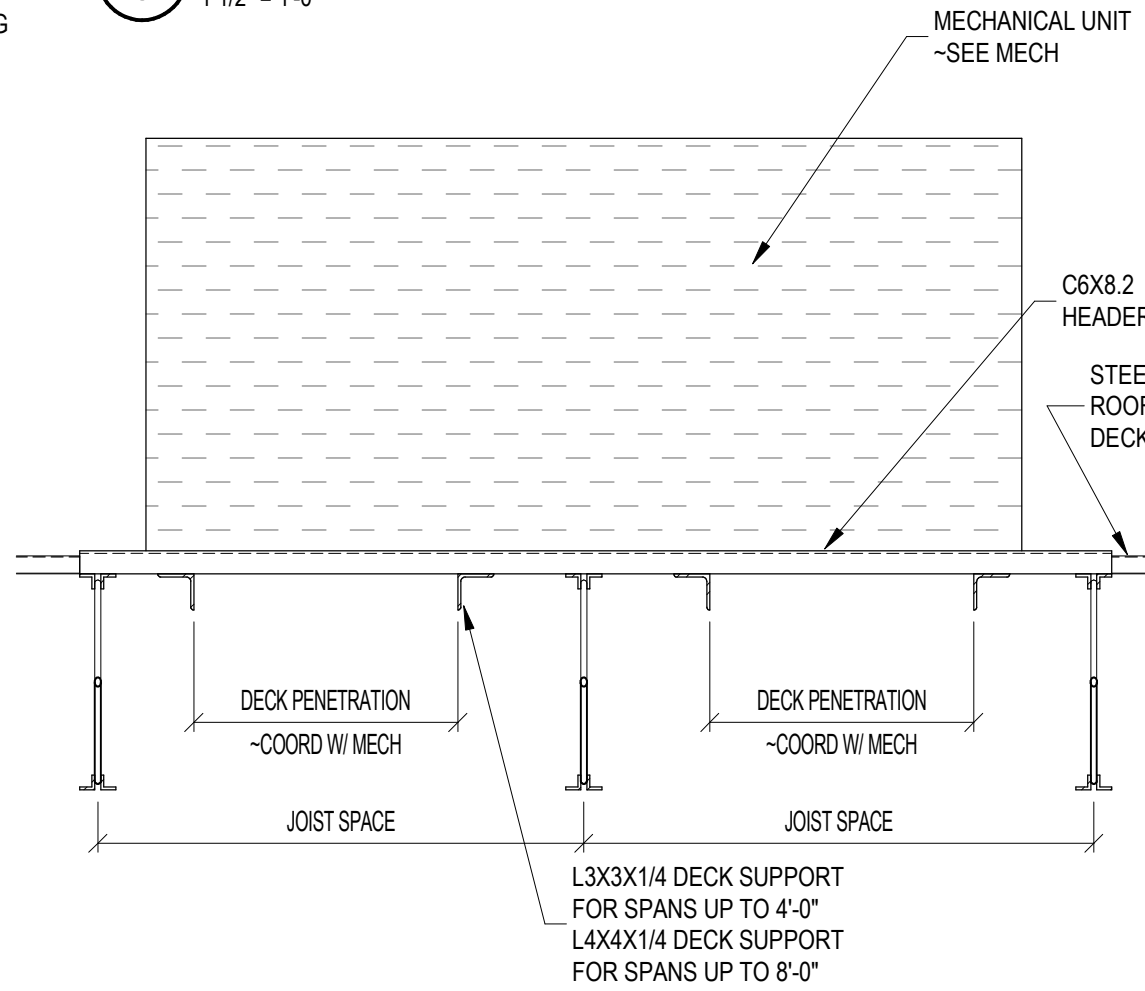
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S1.2



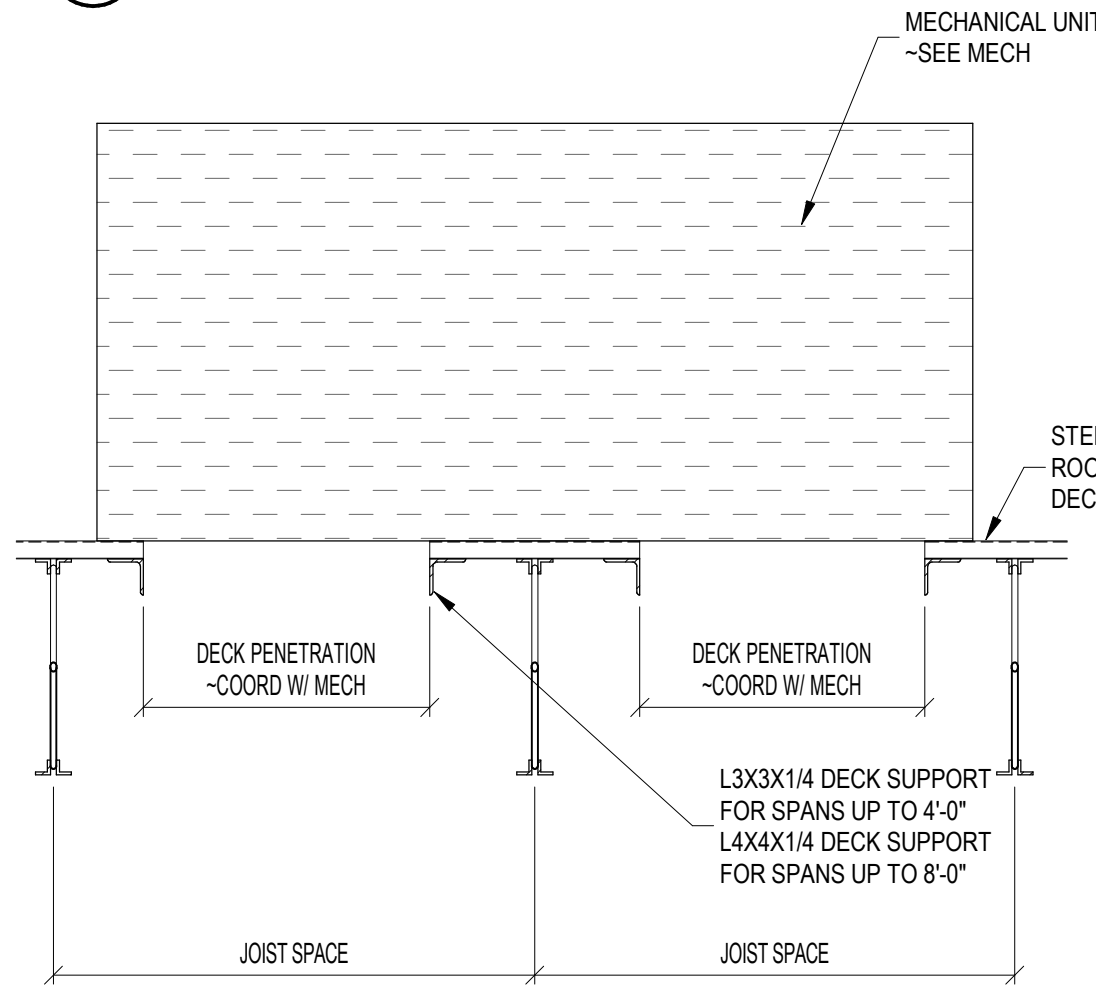
11 JOIST REINFORCEMENT AT PIPING
3/4" = 1'-0"



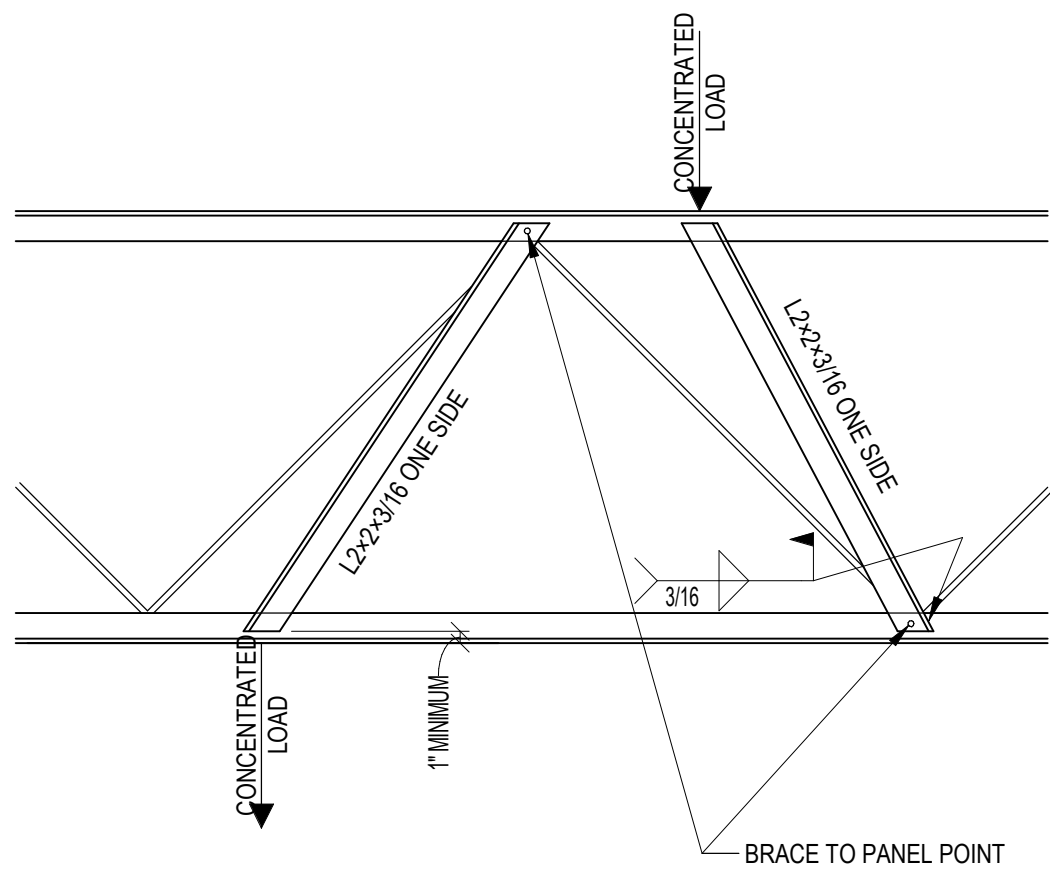
6 STEEL CHANNEL MECHANICAL UNIT SUPPORT
1 1/2" = 1'-0"



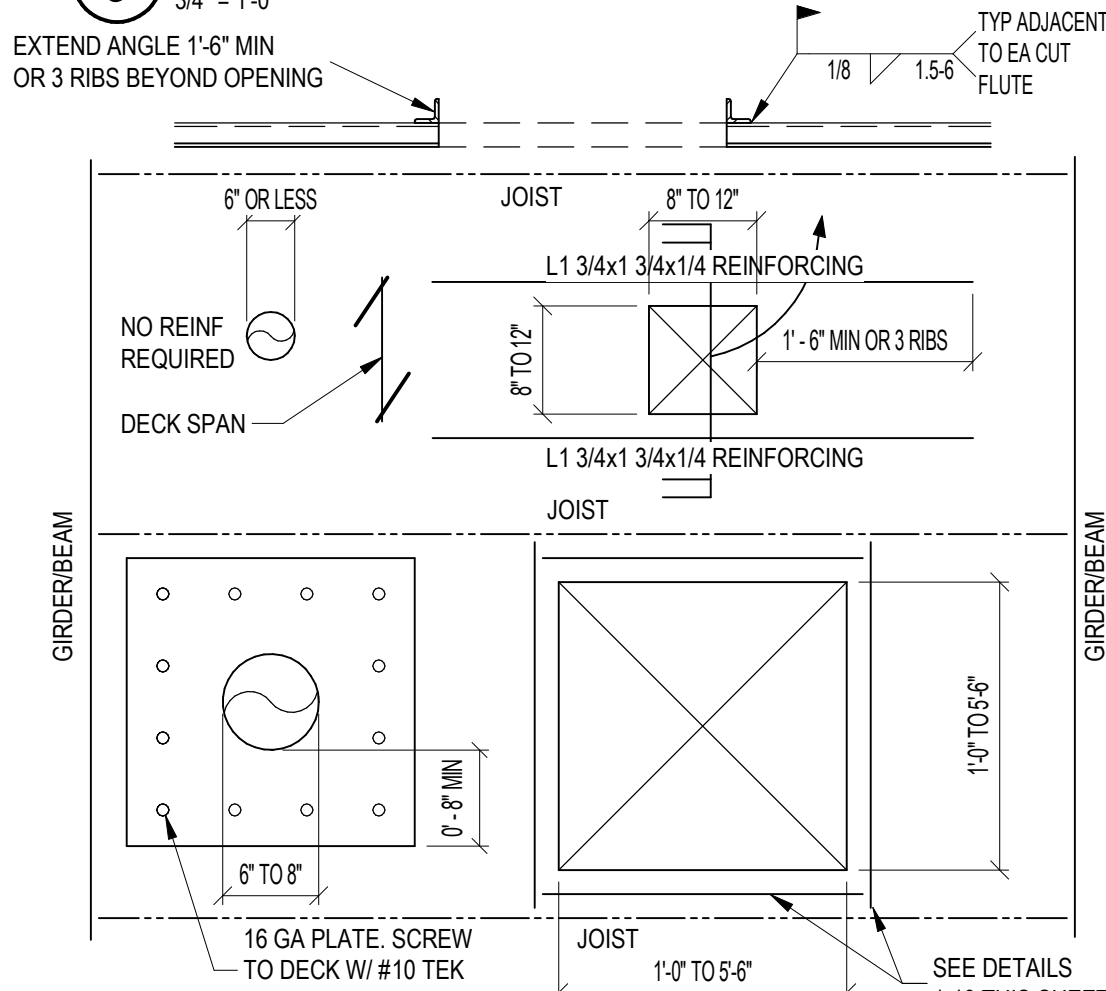
7 CHANNEL SUPPORT HEADER
3/4" = 1'-0"



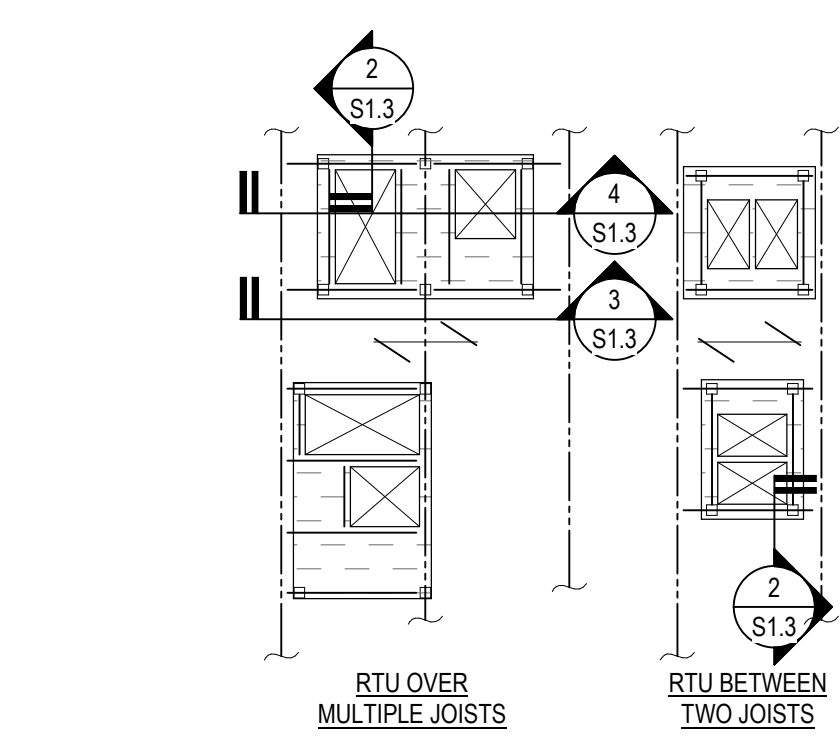
8 CHANNEL HEADER AND DECK SUPPORT
3/4" = 1'-0"



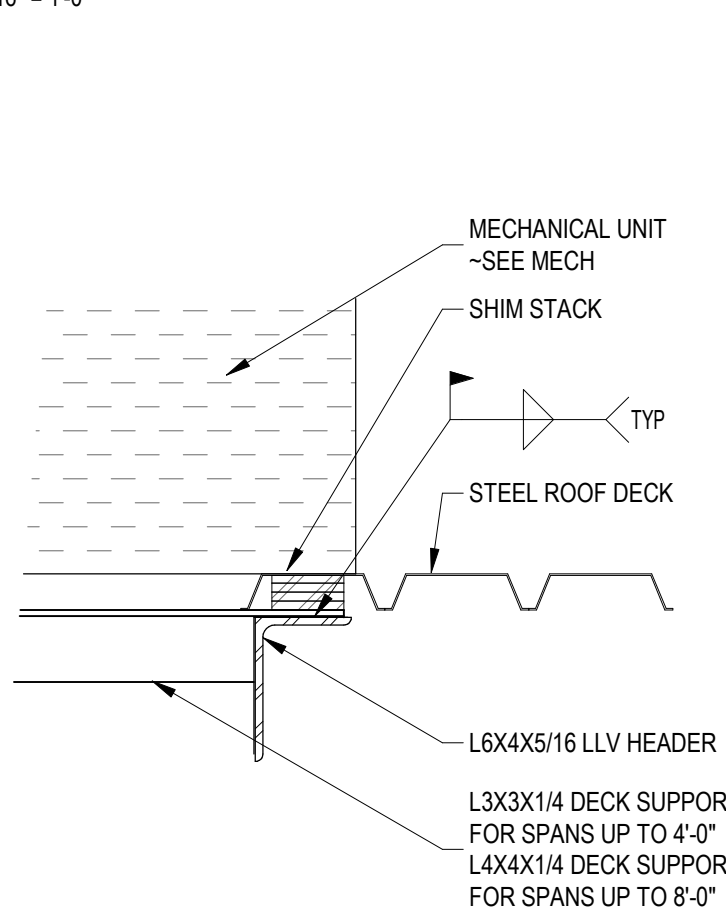
9 JOIST REINFORCING AT CONCENTRATED LOAD
3/4" = 1'-0"



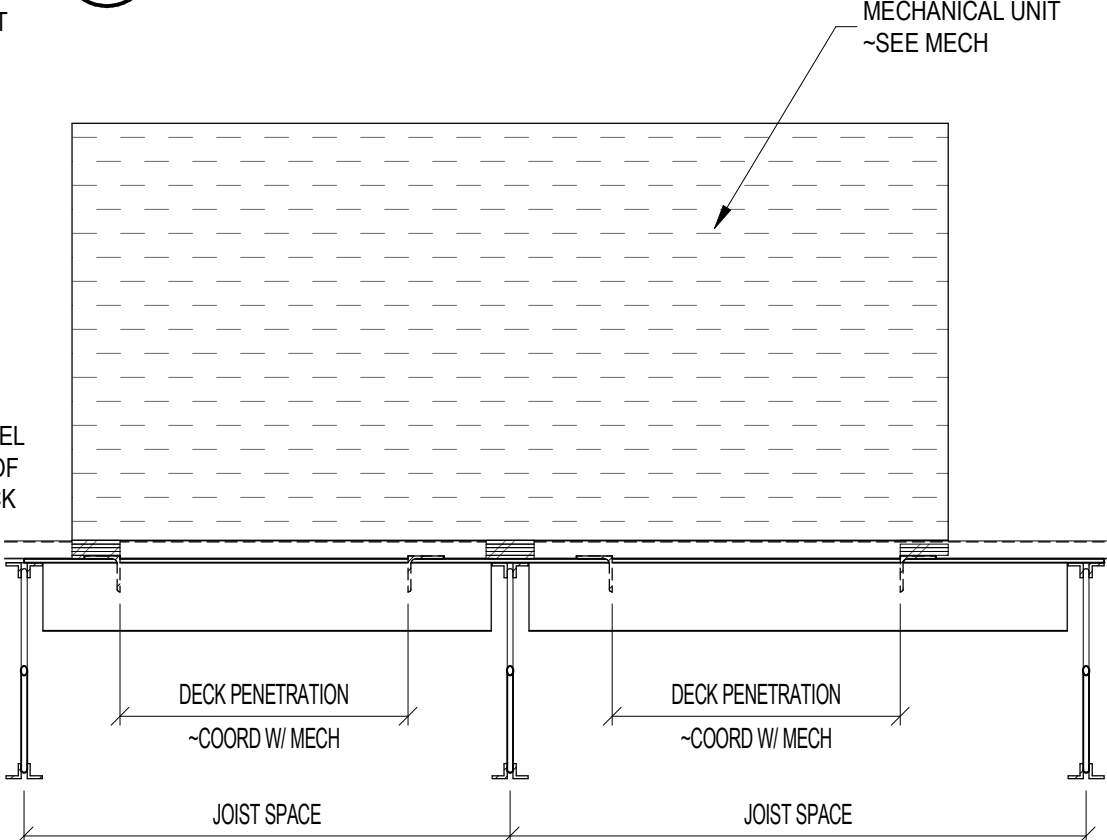
10 GENERAL ROOF DECK PENETRATION REINFORCEMENT
3/4" = 1'-0"



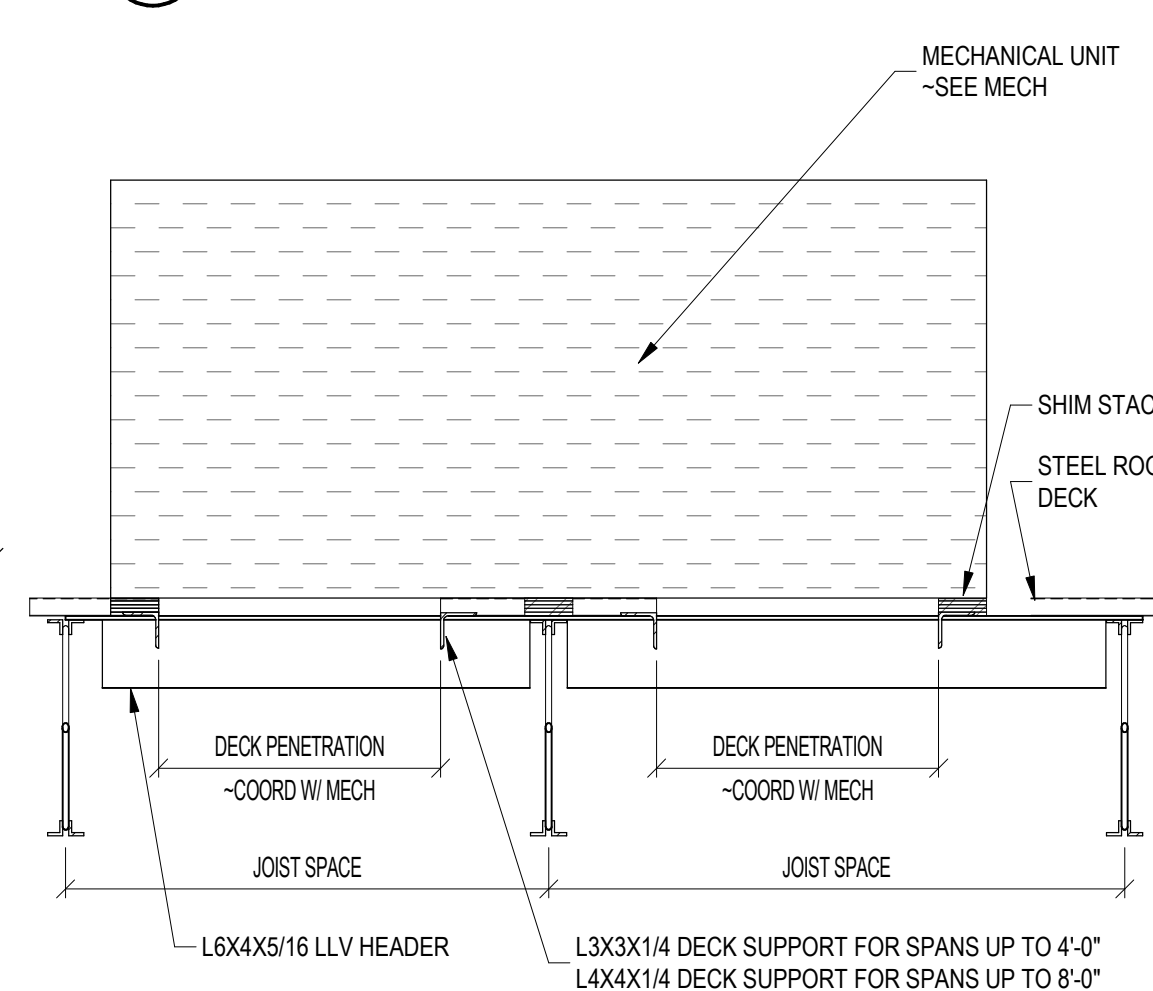
1 MECHANICAL RTU - ANGLE SUPPORT
3/16" = 1'-0"



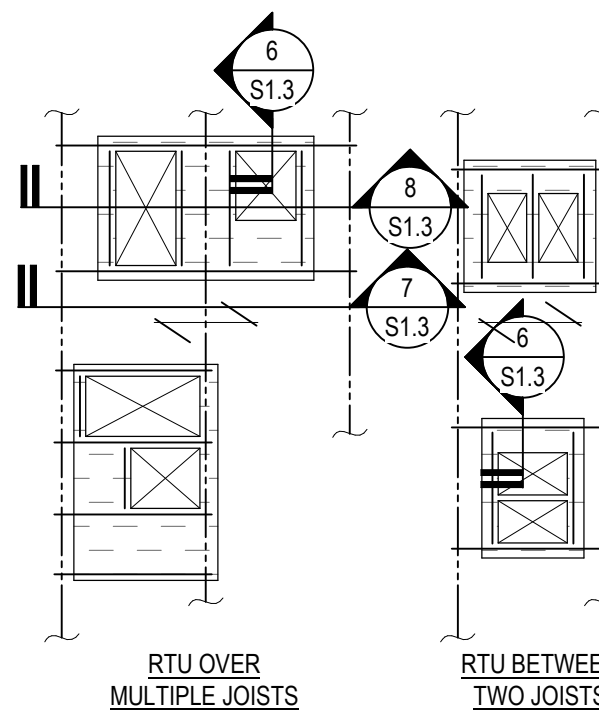
2 STEEL ANGLE MECHANICAL UNIT SUPPORT
1 1/2" = 1'-0"



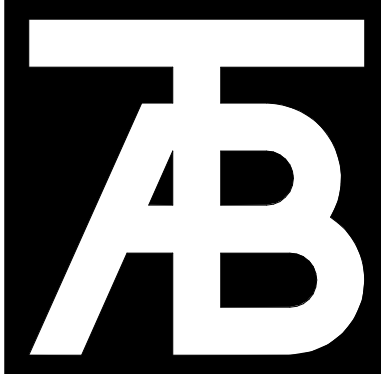
3 ANGLE SUPPORT HEADER
3/4" = 1'-0"



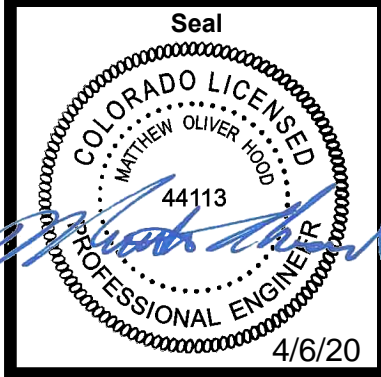
4 ANGLE HEADER AND DECK SUPPORT
3/4" = 1'-0"



5 MECHANICAL RTU PLANS - CHANNEL SUPPORT
3/16" = 1'-0"



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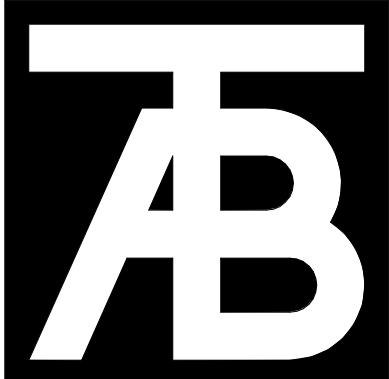
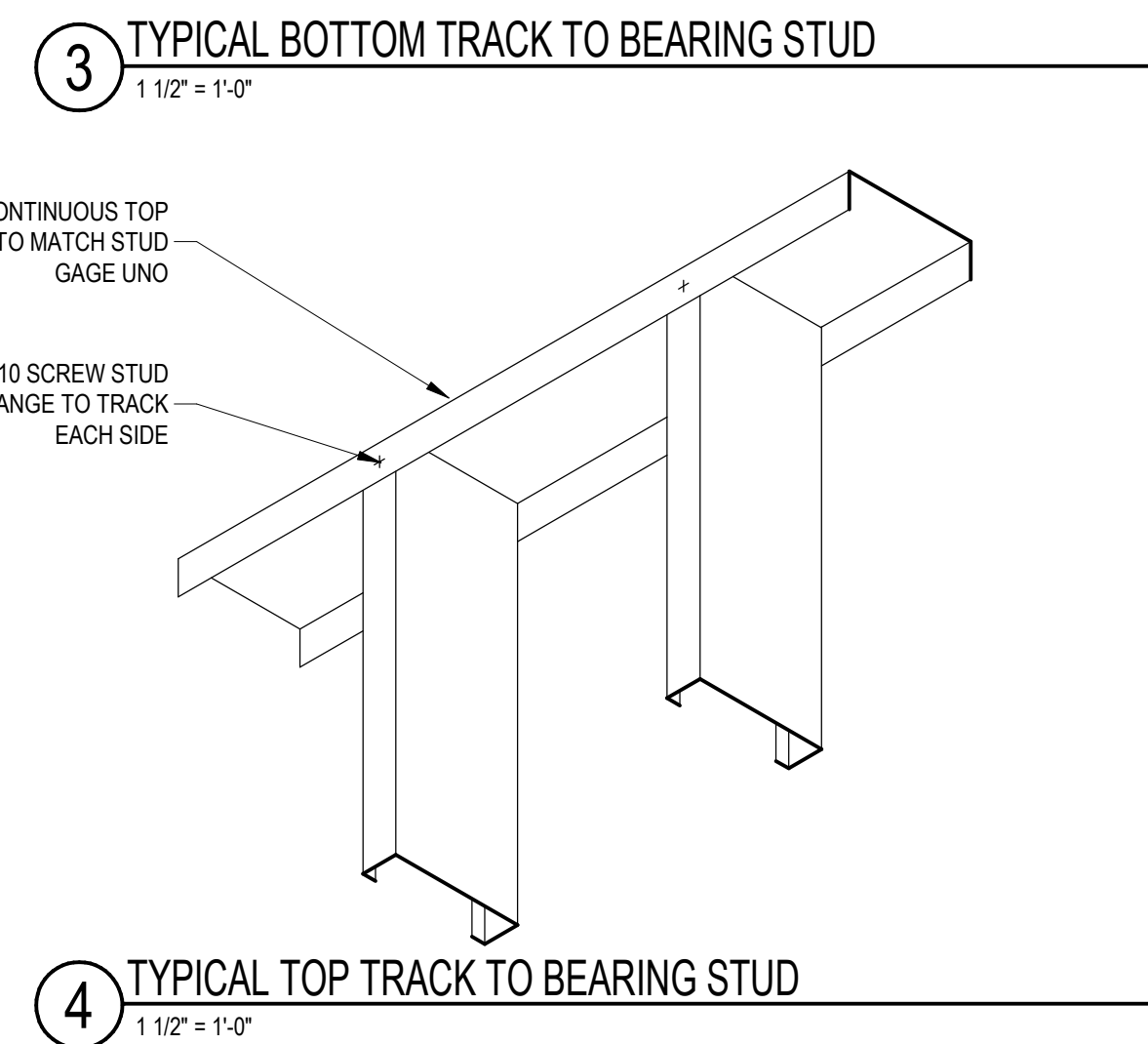
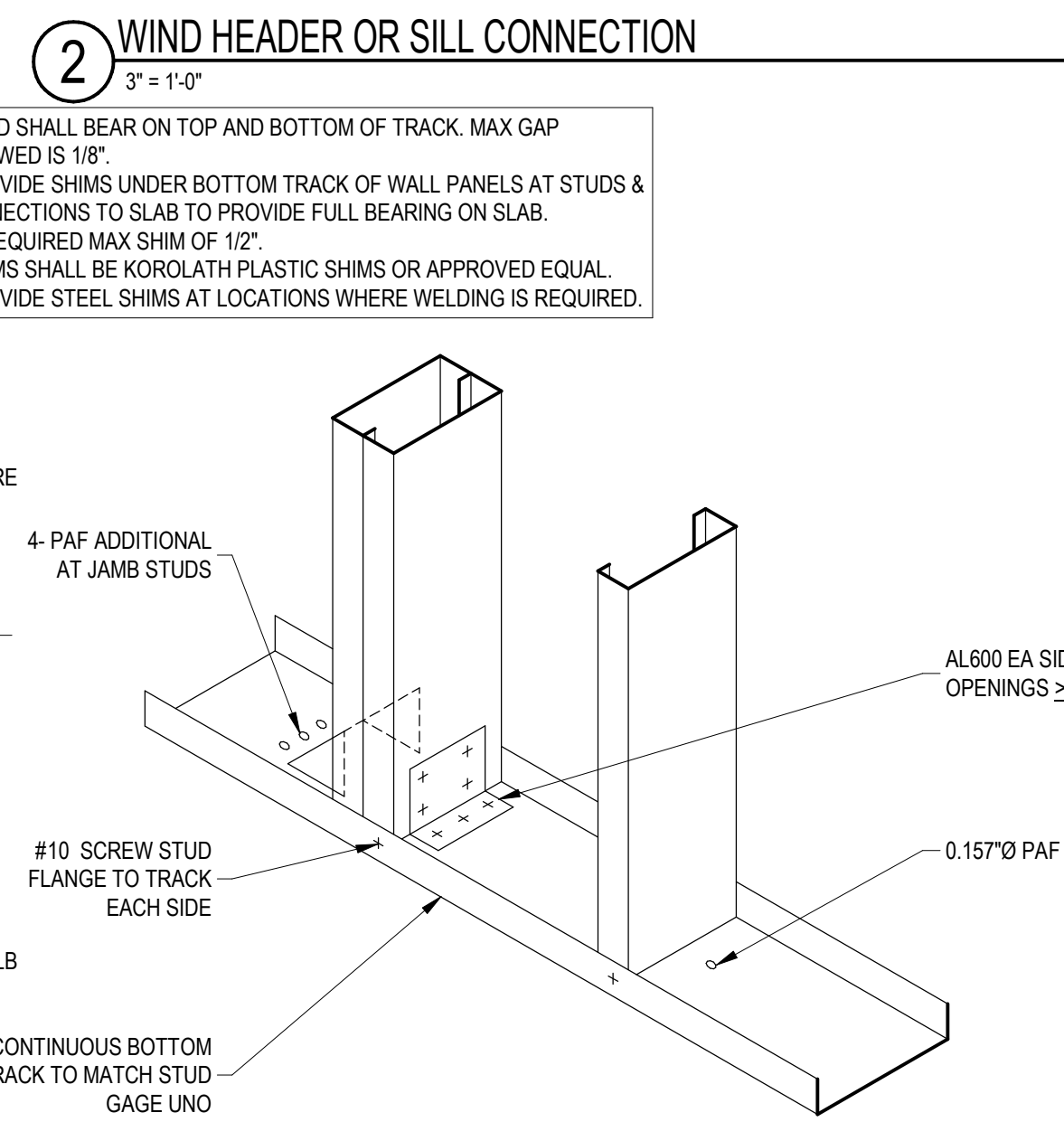
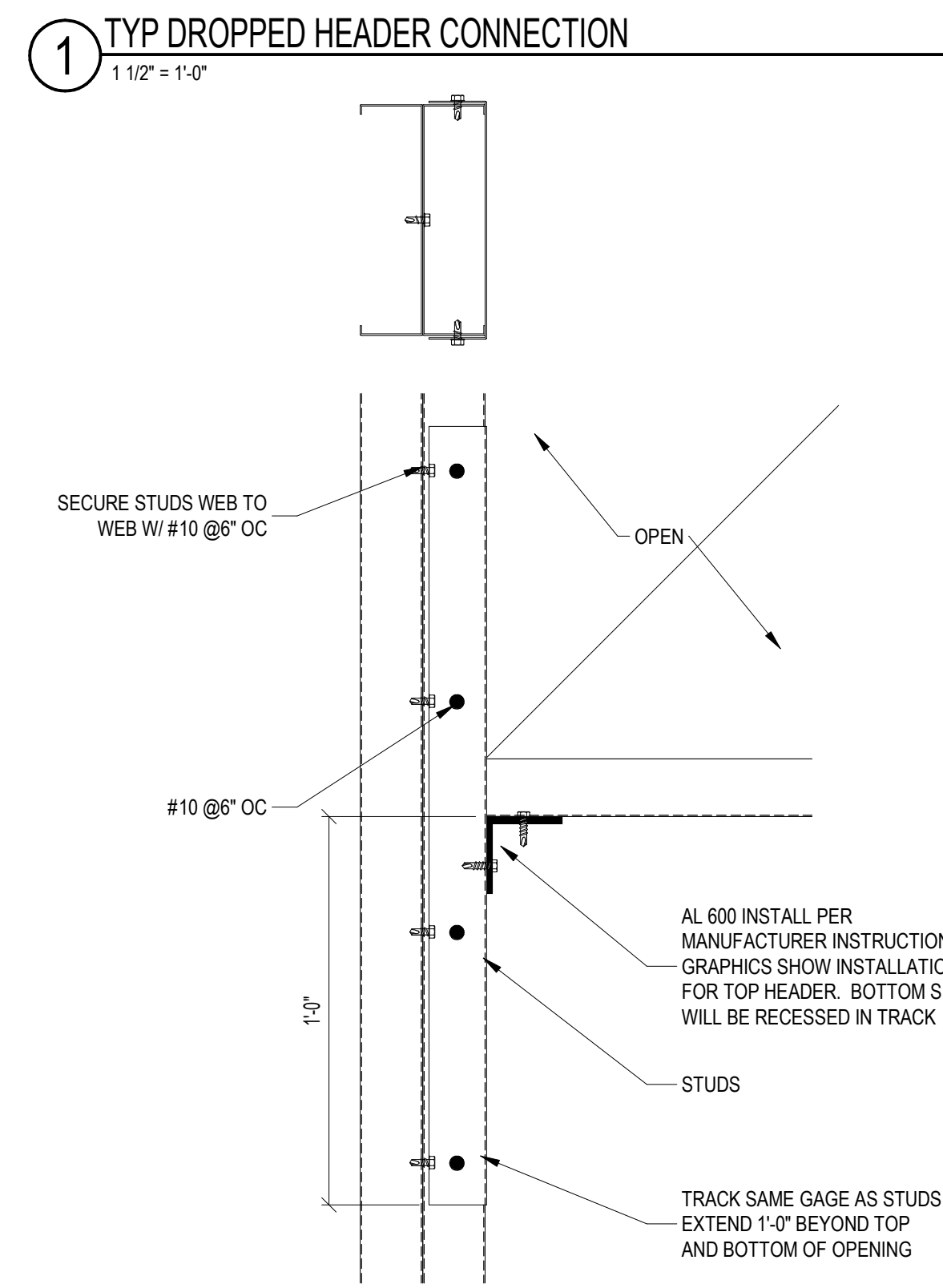
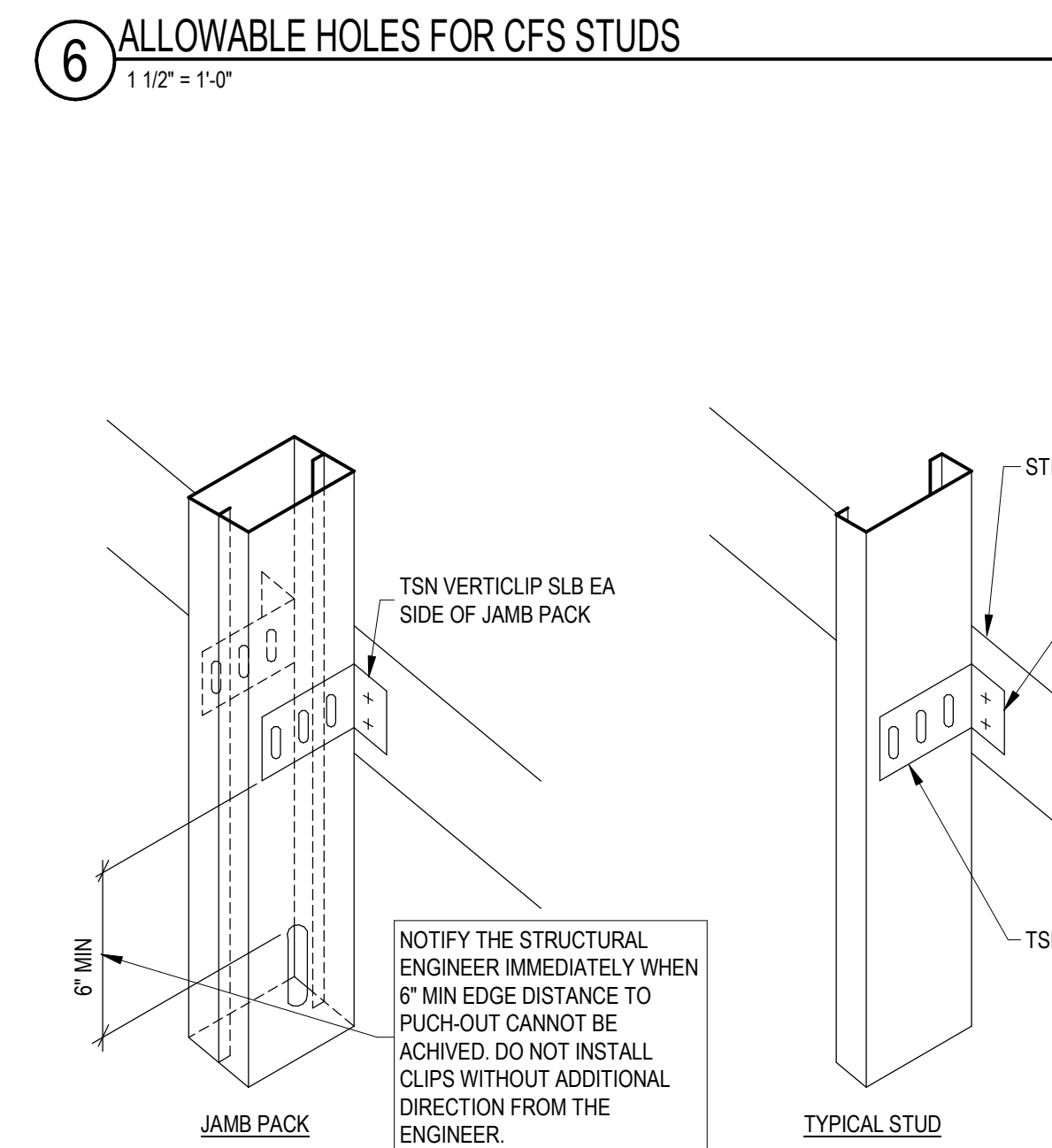
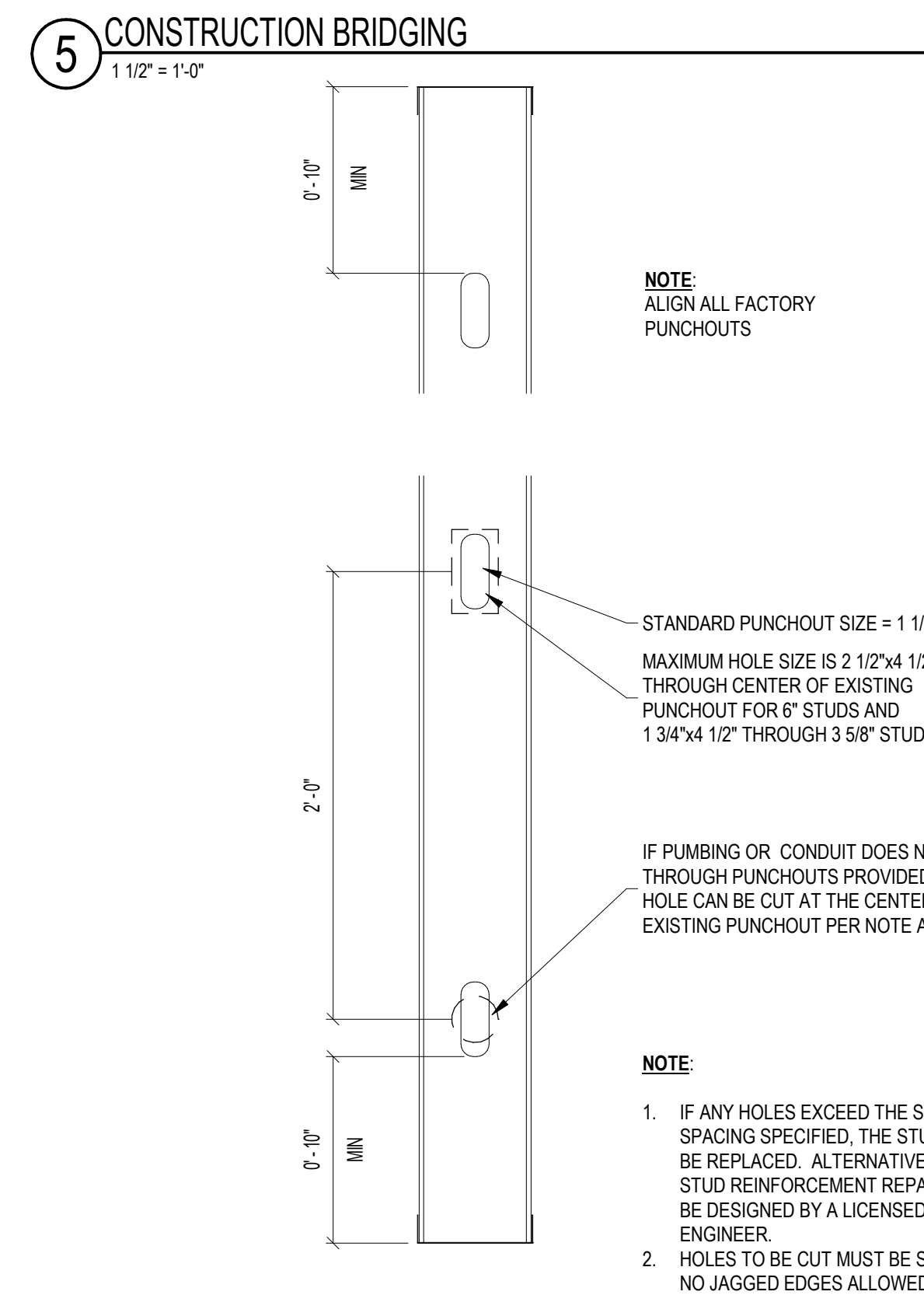
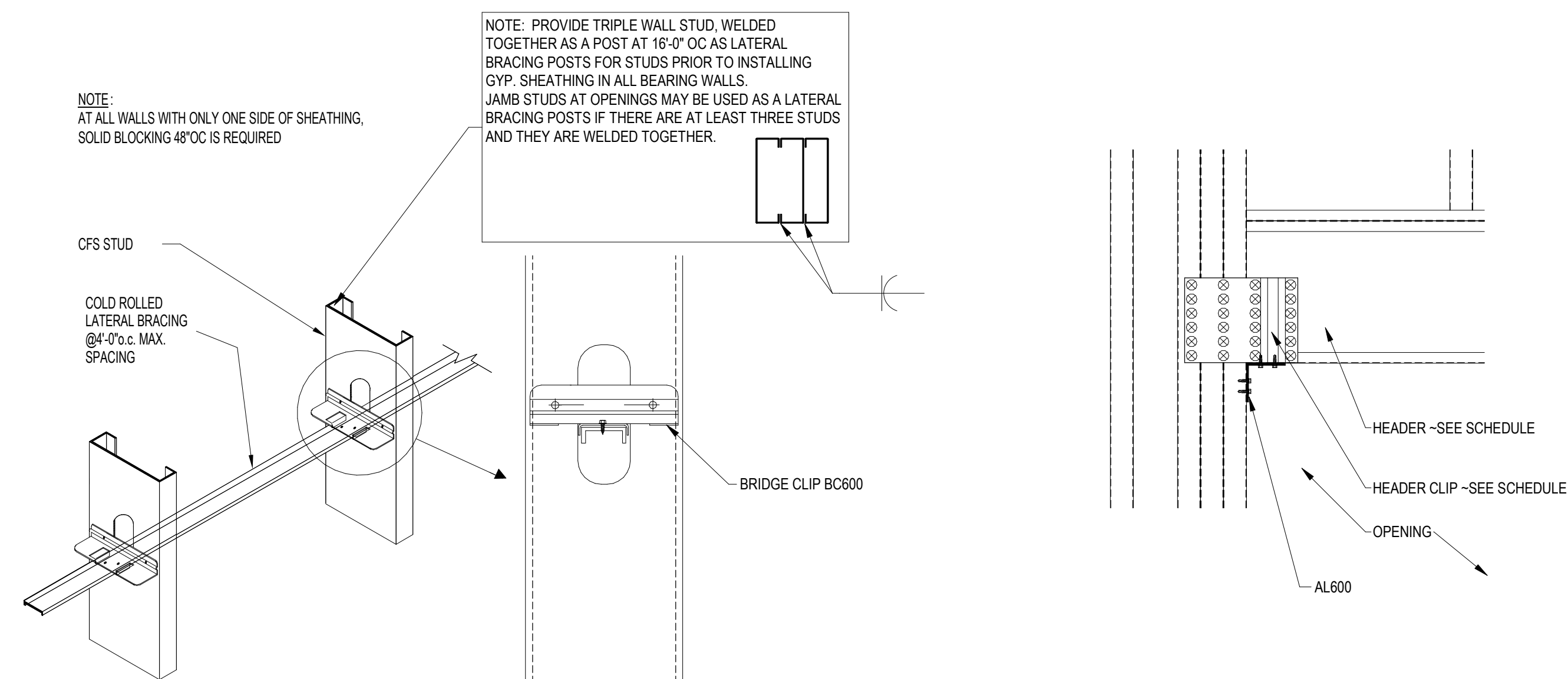
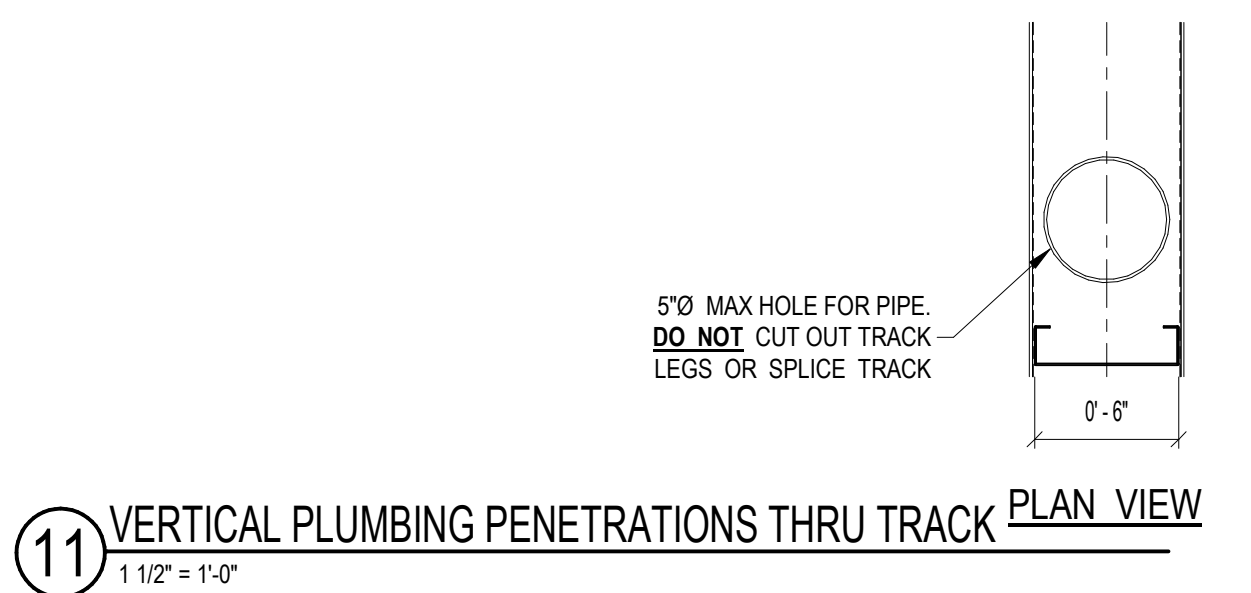
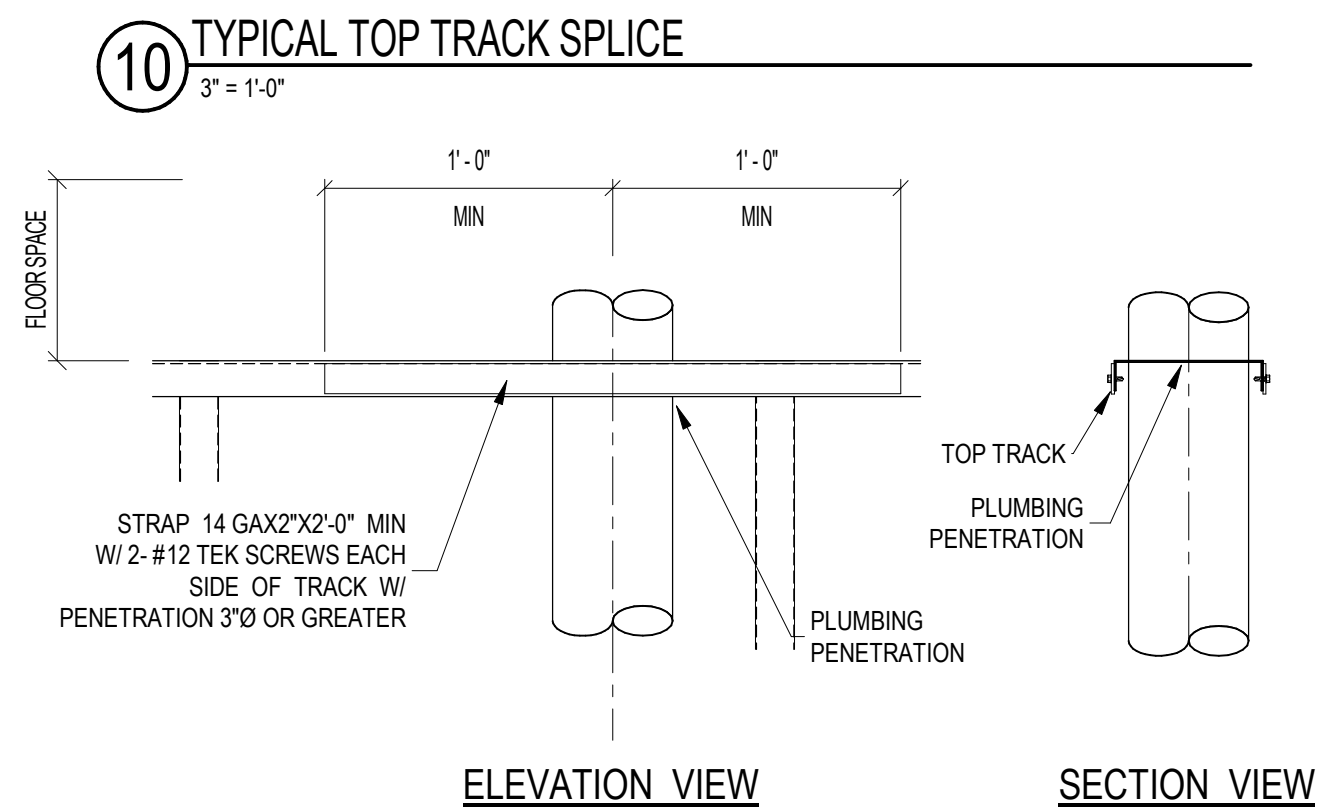
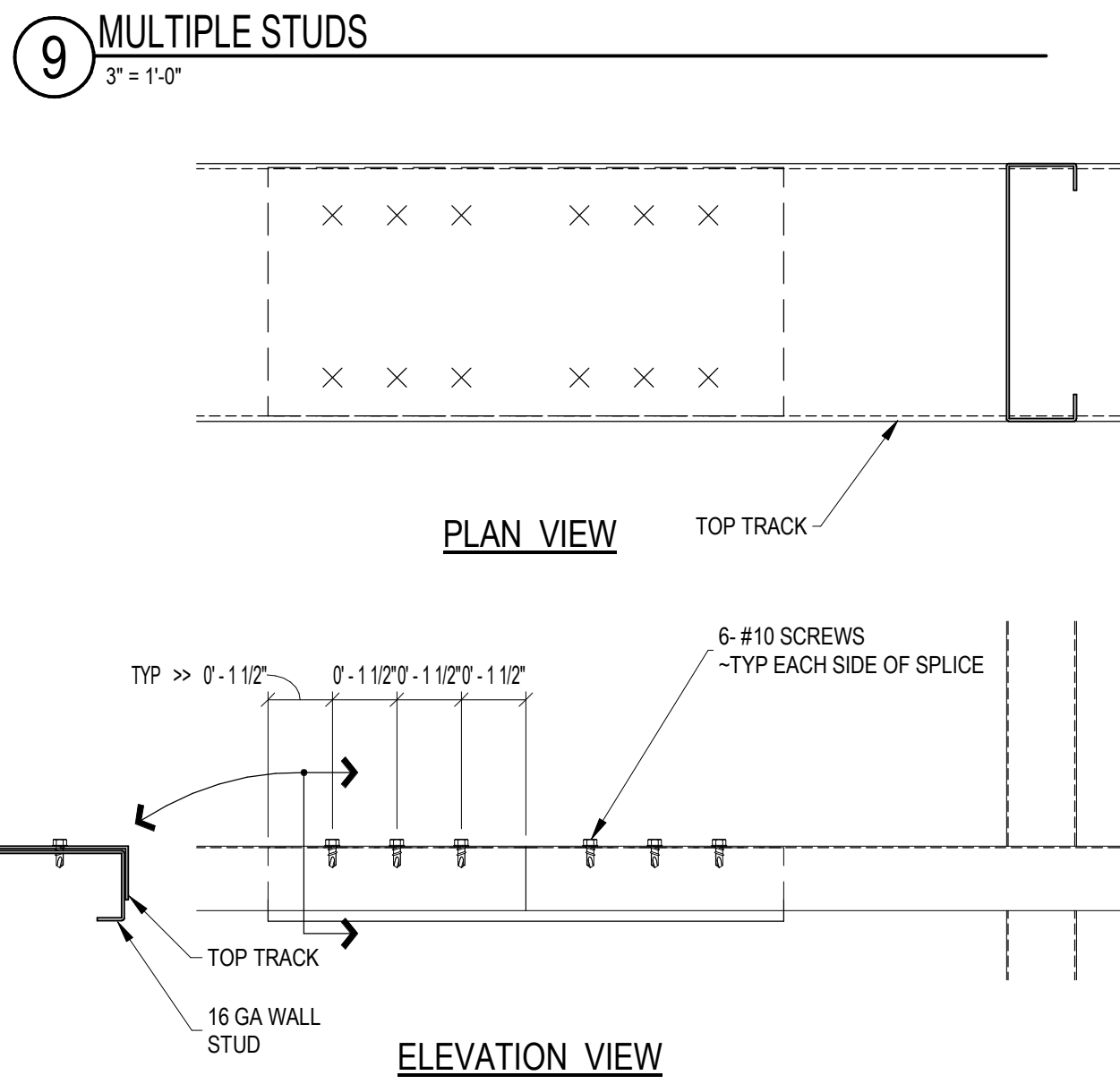
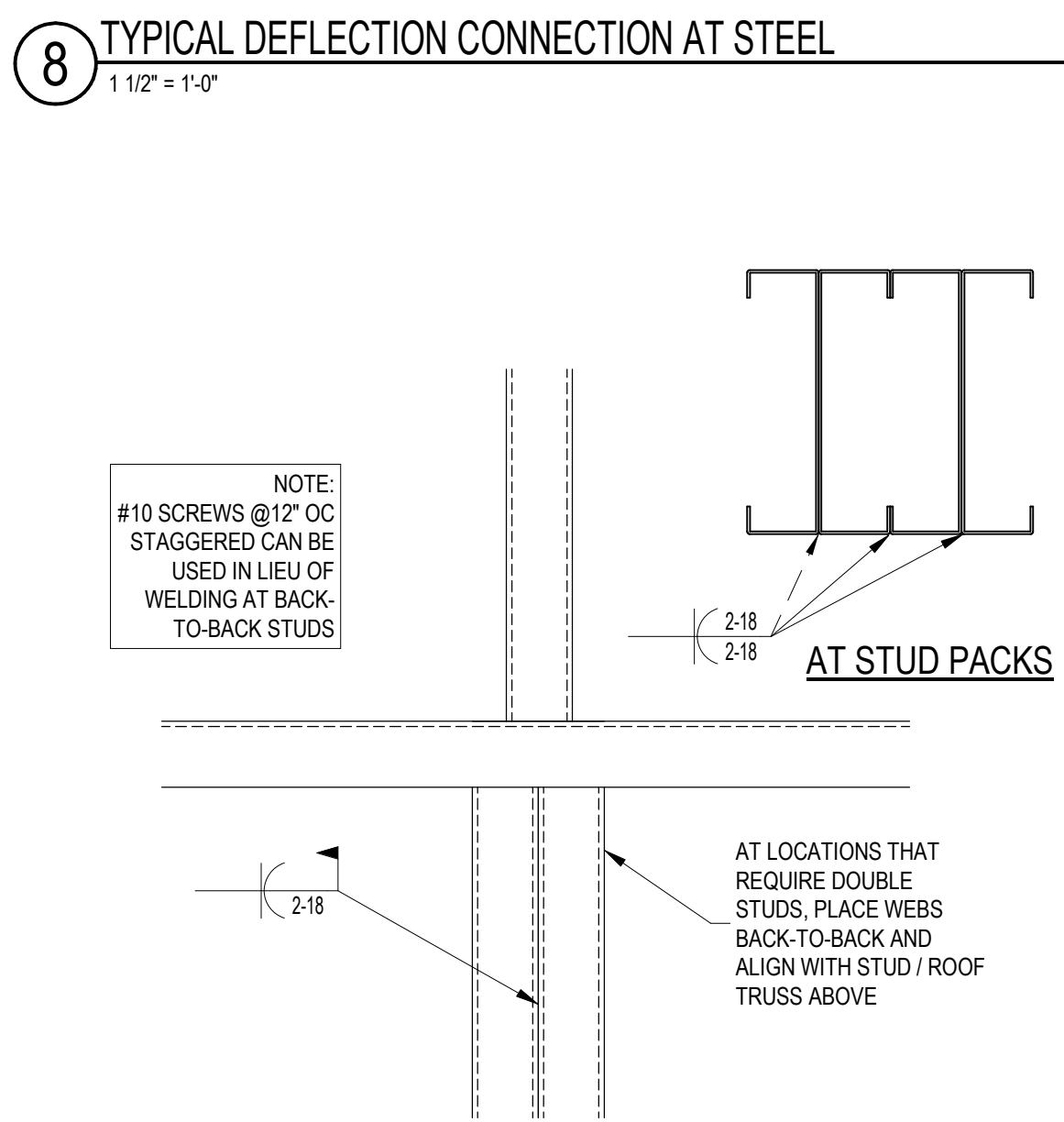
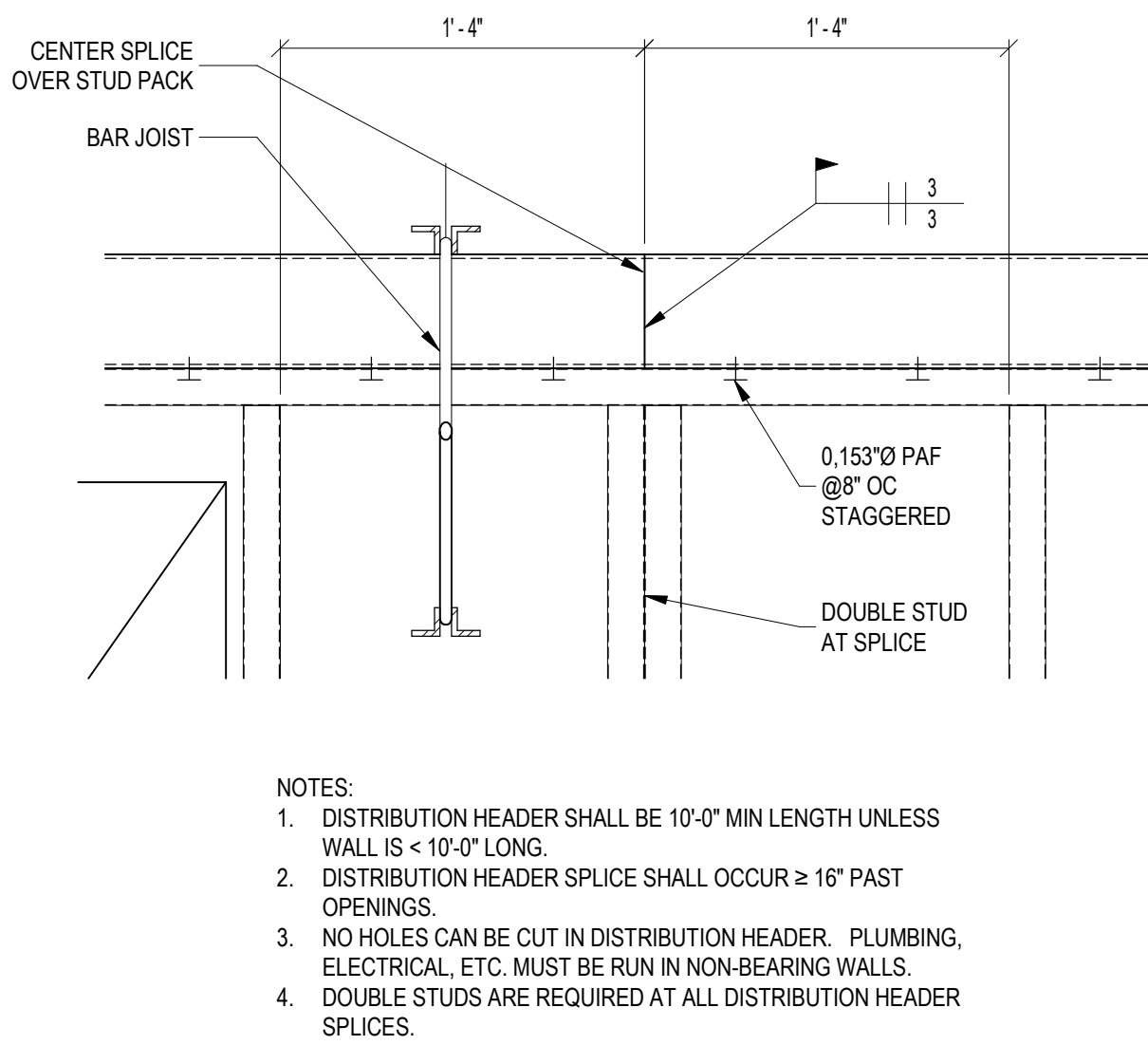
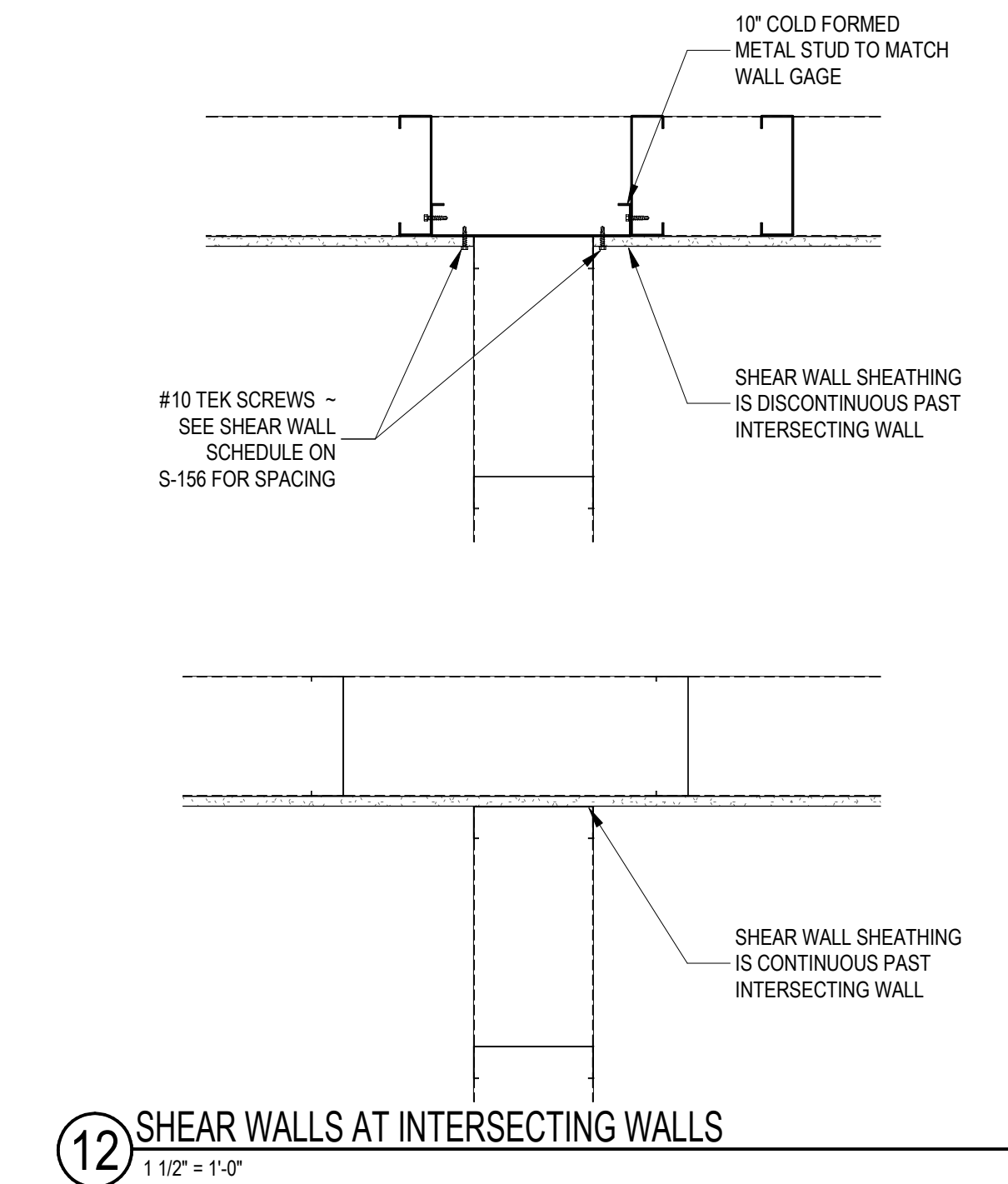
Revisions:		
No	Description	Date

Issue Dates:
DD's - 02/21/20
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CD's - 04/06/20

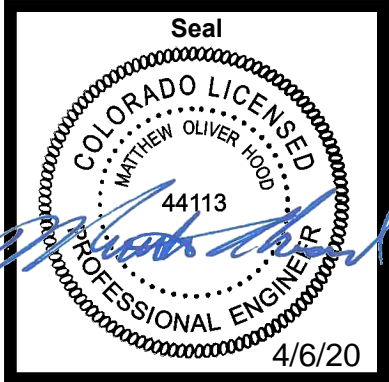
Sheet Title:
Steel Bar Joist Roof Typical Details

Project No:
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Sheet No:
S1.3



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Revisions:		
No	Description	Date

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CD's - 04/06/20

Sheet Title:
Typical CFS Details

Project No:
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Sheet No:
S1.4

REQUIRED THIRD PARTY SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION - 2015 IBC				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. Reinforcing bar welding:	-	-	AWS D1.4 ACI 318: 26.6.4	-
a. Verify weldability of reinforcing bars other than ASTM A706.	-	X	AWS D1.4 ACI 318: 26.6.4	-
b. Inspect single-pass fillet welds, maximum 5/16"; and	-	X	AWS D1.4 ACI 318: 26.6.4	-
c. Inspect all other welds.	X	-	AWS D1.4 ACI 318: 26.6.4	-
3. Inspect anchors cast in concrete.	-	X	ACI 318: 17.8.2	-
4. Inspect anchors post-installed in hardened concrete members.	-	-	-	-
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	-	ACI 318: 17.8.2.4	-
b. Mechanical anchors and adhesive anchors not defined in 4.a.	-	X	ACI 318: 17.8.2	-
5. Verifying use of required design mix.	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C 172 ASTM C 311 ACI 318: 26.4, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. Inspect prestressed concrete for:	-	-	-	-
a. Application of prestressing forces; and	X	-	ACI 318: 26.10	-
b. Grouting of bonded prestressing tendons.	X	-	ACI 318: 26.10	-
10. Inspect erection of precast concrete members.	-	X	ACI 318: Ch. 26.8	-
11. 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.	-	X	ACI 318: 26.11.2	-
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 26.11.1.2 (b)	-

REQUIRED THIRD PARTY SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS - 2015 IBC			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
1. Installation of open-web steel joists and joist girders.	-	-	
a. End connections - welding or bolted.	-	X	SJI specifications listed in Section 2207.1.
b. Bridging - horizontal or diagonal.	-	-	
1. Standard bridging.	-	X	SJI specifications listed in Section 2207.1.
2. Bridging that differs from the SJI specifications listed in section 2207.1.	-	X	

THIRD PARTY LEVEL B QUALITY ASSURANCE FOR MASONRY CONSTRUCTION - 2015 IBC				
INSPECTION TASK	FREQUENCY		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402	TMS 602
1. Verify compliance with the approved submittals	-	X	-	Art. 1.5
2. As masonry construction begins, verify that the following are in compliance:	-	-	-	-
a. Proportions of site-prepared mortar	-	-	X	Art. 2.1, 2.6 A
b. Construction of mortar joints	-	X	-	Art. 3.3 B
c. Grade and size of prestressing tendons and anchorages.	-	X	-	Art. 2.4 B, 2.4 H
d. Location of reinforcement, connectors, and prestressing tendons and anchorages.	-	X	-	Art. 3.4, 3.6 A
e. Prestressing technique	-	X	-	Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	X	X	-	Art. 2.1 C
3. Prior to grouting, verify that the following are in compliance:	-	-	-	-
a. Grout space	-	X	-	Art. 3.2 D, 3.2 F
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	-	X	Sec. 6.1	Art. 2.4, 3.4
c. Placement of reinforcement, connectors, and prestressing tendons and anchorages	-	X	Sec. 6.1, 6.2.1, 6.2.6, 6.2.7	Art. 3.2 E, 3.4, 3.6 A
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	-	X	-	Art. 2.6 B, 2.4 G.1.b
e. Construction of mortar joints	-	X	-	Art. 3.3 B
4. Verify during construction:	-	-	-	-
a. Size and location of structural elements	-	X	-	Art. 3.3 F
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	-	X	Sec. 1.2.1(e), 6.1.4.3, 6.2.1	-
c. Welding of reinforcement	X	-	Sec. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4 (b)	-
d. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	-	X	-	Art. 1.8 C, 1.8 D
e. Application and measurement of prestressing force	X	-	-	Art. 3.6 B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	X	-	-	Art. 3.5, 3.6 C
g. Placement of AAC masonry units and construction of thin-bed mortar joints	X	X	-	Art. 3.3 B.9, 3.3 F.1.b
5. 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

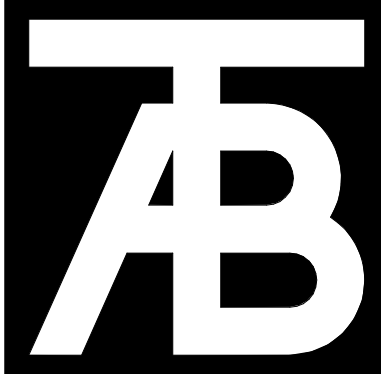
REQUIRED THIRD PARTY SPECIAL INSPECTIONS AND TESTS OF SOILS - 2015 IBC		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material	-	X
3. Perform classification and testing of compacted fill materials.	-	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	X

REQUIRED THIRD PARTY VERIFICATION AND INSPECTIONS FOR COLD-FORMED STEEL CONSTRUCTION - 2015 IBC				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. Pre-fabricated cold-formed steel structural elements and assemblies.			-	Sec. 1704.2.5.1, 1705.11.2, 1705.12.3
a. size, spacing	-	X		
b. connections and welds	-	X		
2. Site built assemblies			-	Sec. 1705.11.2, 1705.12.3
a. grade, size, spacing	-	X		
b. connections and welds	-	X		
c. blocking	-	X	-	Sec. 1705.11.2, 1705.12.3
3. Diaphragms				
a. member size at panel edges	-	X		
b. fastener diameter and length	-	X		
c. fastener spacing	-	X		

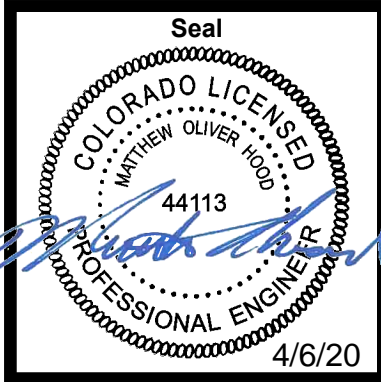
STATEMENT OF SPECIAL INSPECTIONS - 2015 IBC	
1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY A THIRD PARTY AGENCY EMPLOYED BY THE OWNER. SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED AS REQUIRED IN CHAPTER 17 OF THE IBC AND BY THE ENGINEER OF RECORD. REQUIREMENTS ARE NOTED IN CHARTS PROVIDED ON THE CONSTRUCTION DOCUMENTS, AS WELL AS IN THE SPECIFICATIONS.	
2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.	
A. ALL SPECIAL INSPECTORS SHALL BE QUALIFIED TO INSPECT MATERIALS BASED ON CERTIFICATION, TRAINING OR EXPERIENCE AS REQUIRED, AND MUST MEET SPECIFICATION STANDARDS.	
3. SPECIAL INSPECTOR DUTIES.	
A. SPECIAL INSPECTOR SHALL REVIEW ALL WORK REQUIRED ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.	
B. SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE ENGINEER OF RECORD, ARCHITECT, CONTRACTOR, OWNER, AND BUILDING OFFICIAL ON A WEEKLY BASIS OR MORE FREQUENTLY. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF UNCORRECTED, THEY SHALL BE REPORTED TO THE EOR.	
C. SPECIAL INSPECTOR SHALL KEEP A LOG OF ALL NON-COMPLIANCE ITEMS, INCLUDING THOSE NOTED ON STRUCTURAL OBSERVATION REPORTS.	
D. SPECIAL INSPECTOR SHALL REINSPECT ALL NON-COMPLIANCE ITEMS UPON REPAIR BY THE CONTRACTOR TO MEET THE CONSTRUCTION DOCUMENTS OR REPAIR BASED ON ENGINEER OF RECORD DIRECTIVES.	
E. SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT.	
F. SPECIAL INSPECTOR SHALL FURNISH A FINAL LETTER TO THE EOR AT THE COMPLETION OF THE PROJECT STATING THAT ALL INSPECTIONS HAVE BEEN COMPLETED AND ALL DISCREPANCIES HAVE BEEN RESOLVED.	
4. CONTRACTOR DUTIES.	
A. CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. THE STATEMENT SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.	
B. CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION A MINIMUM OF 24 HOURS BEFORE SUCH INSPECTION IS REQUIRED.	
C. ALL WORK, INCLUDING REPAIRS, SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.	
D. CONTRACTOR SHALL PROVIDE CURRENT DRAWINGS AND SPECIFICATIONS TO THE SPECIAL INSPECTOR. THIS INCLUDES ALL STRUCTURAL OBSERVATIONS, REPORTS, AND REPAIR DOCUMENTATION.	
E. ALL REPAIRS SHALL BE INSPECTED AT THE COST OF THE CONTRACTOR. NON-COMPLIANCE ITEMS SHALL BE RESOLVED IN A TIMELY MANNER.	

REQUIRED THIRD PARTY VERIFICATION AND INSPECTION FOR STEEL CONSTRUCTION - 2015 IBC			
	CONTINUOUS	PERIODIC	REFERENCED STANDARD
INSPECTION TASKS PRIOR TO WELDING			
Welder qualification records and continuity records	-	X	
WPS available	X	-	
Manufacturer certifications for welding consumables available	X	-	
Material identification (type/grade)	-	X	
Welder identification system ^[1]	-	X	
Fit-up of groove welds (including joint geometry)	-	X	AISC 360 TABLE N5.4-1
Fit-up of CJP groove welds of HSS T-, Y- and K-joints without backing (including joint geometry)	-	X	AISC 360 TABLE N5.4-1
Configuration and finish of access holes	-	X	
Fit-up of fillet welds	-	X	AISC 360 TABLE N5.4-1
INSPECTION TASKS DURING WELDING			
Control and handling of welding consumables	-	X	AISC 360 TABLE N5.4-2
No welding over cracked tack welds	-	X	
Environmental conditions	-	X	AISC 360 TABLE N5.4-2
WPS followed	-	X	AISC 360 TABLE N5.4-2
Welding techniques	-	X	AISC 360 TABLE N5.4-2
Placement and installation of steel headed stud anchors	X	-	
INSPECTION TASKS AFTER WELDING			
Welds cleaned	-	X	
Size, length and location of welds	X	-	
Welds meet visual acceptance criteria	X	-	AISC 360 TABLE N5.4-3
Arc strikes	X	-	
k-area ^[2]	X	-	
Weld access holes in rolled heavy shapes and built-up heavy shapes ^[2]	X	-	
Backing removed and weld tabs removed (if required)	X	-	
Repair activities	X	-	
Document acceptance or rejection of welded joint or member	X	-	
No prohibited welds have been added without the approval of the EOR	-	X	
INSPECTION TASKS PRIOR TO BOLTING			
Manufacturer's certifications available for fastener materials	X	-	
Fasteners marked in accordance with ASTM requirements	-	X	
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	-	X	
Correct bolting procedure selected for joint detail	-	X	
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	-	X	
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	-	X	
Protected storage provided for bolts, nuts, washers and other fastener components	-	X	
INSPECTION TASKS DURING BOLTING			
Fastener assemblies placed in all holes and washers and nuts are positioned as required	-	X	
Joint brought to the snug-tight condition prior to the pretensioning operation	-	X	
Fastener component not turned by the wrench prevented from rotating	-	X	
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid joint toward the free ends	-	X	
INSPECTION TASKS AFTER BOLTING			
Document acceptance or rejection of bolted connections	X	-	
INSPECTION OF STEEL FRAME, DECK AND JOINT DETAILS FOR COMPLIANCE			
Placement and installation of steel deck	-	X	
Details such as bracing and stiffening	-	X	
Member locations	-	X	
Application of joint details at each connection	-	X	

NOTES:
1. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
2. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD.
3. AFTER ROLLED HEAVY SHAPES (PER AISC 360 SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (PER AISC 360 SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLES FOR CRACKS.



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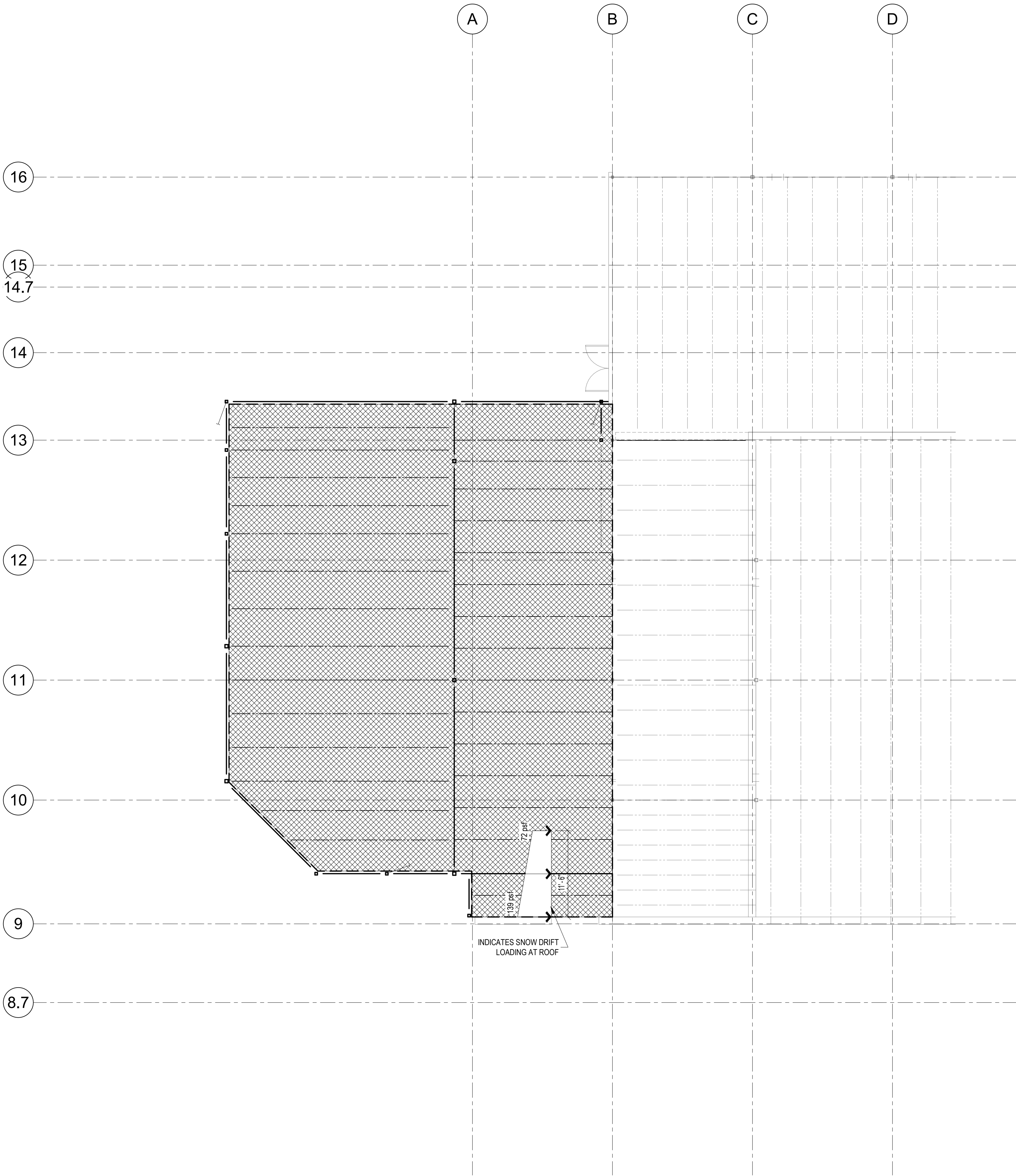
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Inspection Schedules 2015 IBC

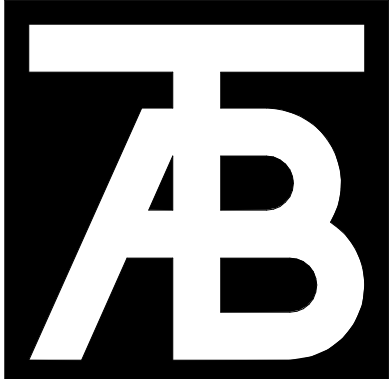
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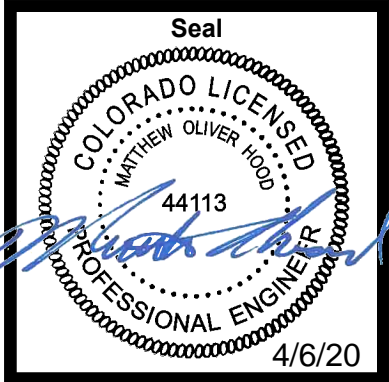
LOADING DIAGRAM KEY				
PATTERN	AREA	TOTAL DEAD LOAD	LIVE LOAD	NOTES
	ROOF	25 psf	72 psf SNOW + DRIFT (non-reducible)	
NOTES: 1. ROOF JOIST DEAD LOAD INCLUDES THE WEIGHT OF THE JOISTS. 2. SNOW DRIFT DIAGRAMS INCLUDE THE 72 psf BASE SNOW LOAD. 3. DESIGN ROOF JOISTS FOR 10 psf NET UPLIFT. 4. ROOF JOIST BRIDGING SHALL BE PROVIDED IN ACCORDANCE WITH SJI SPECIFICATIONS.				



1 ROOF LOADING PLAN
1/8" = 1'-0"



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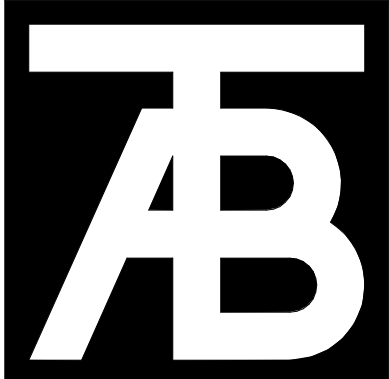
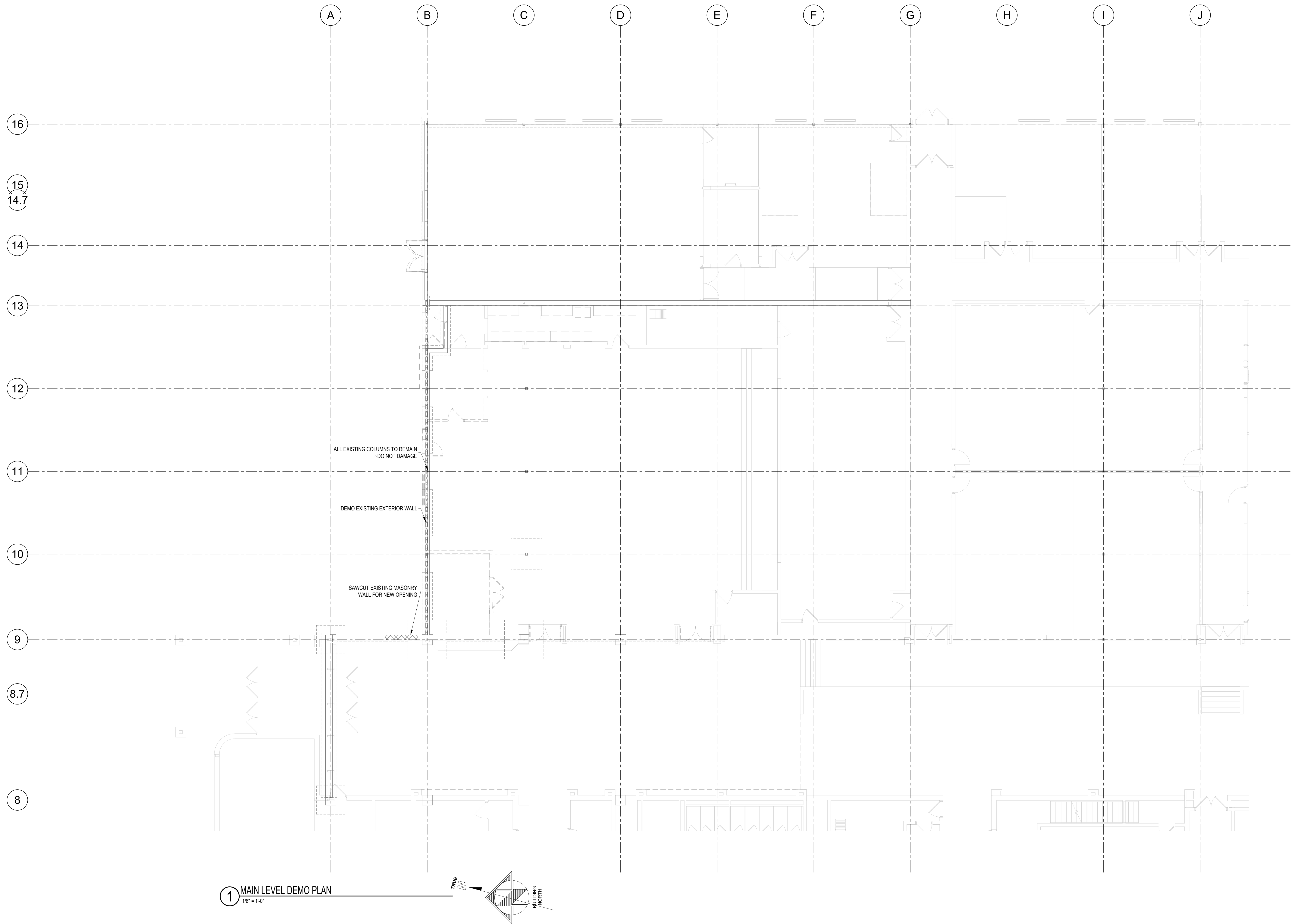
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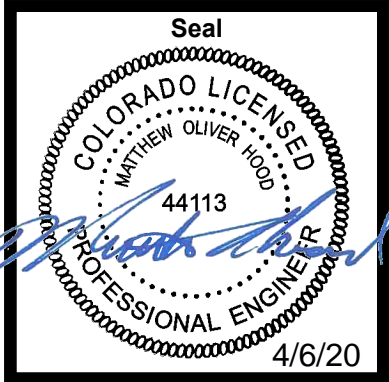
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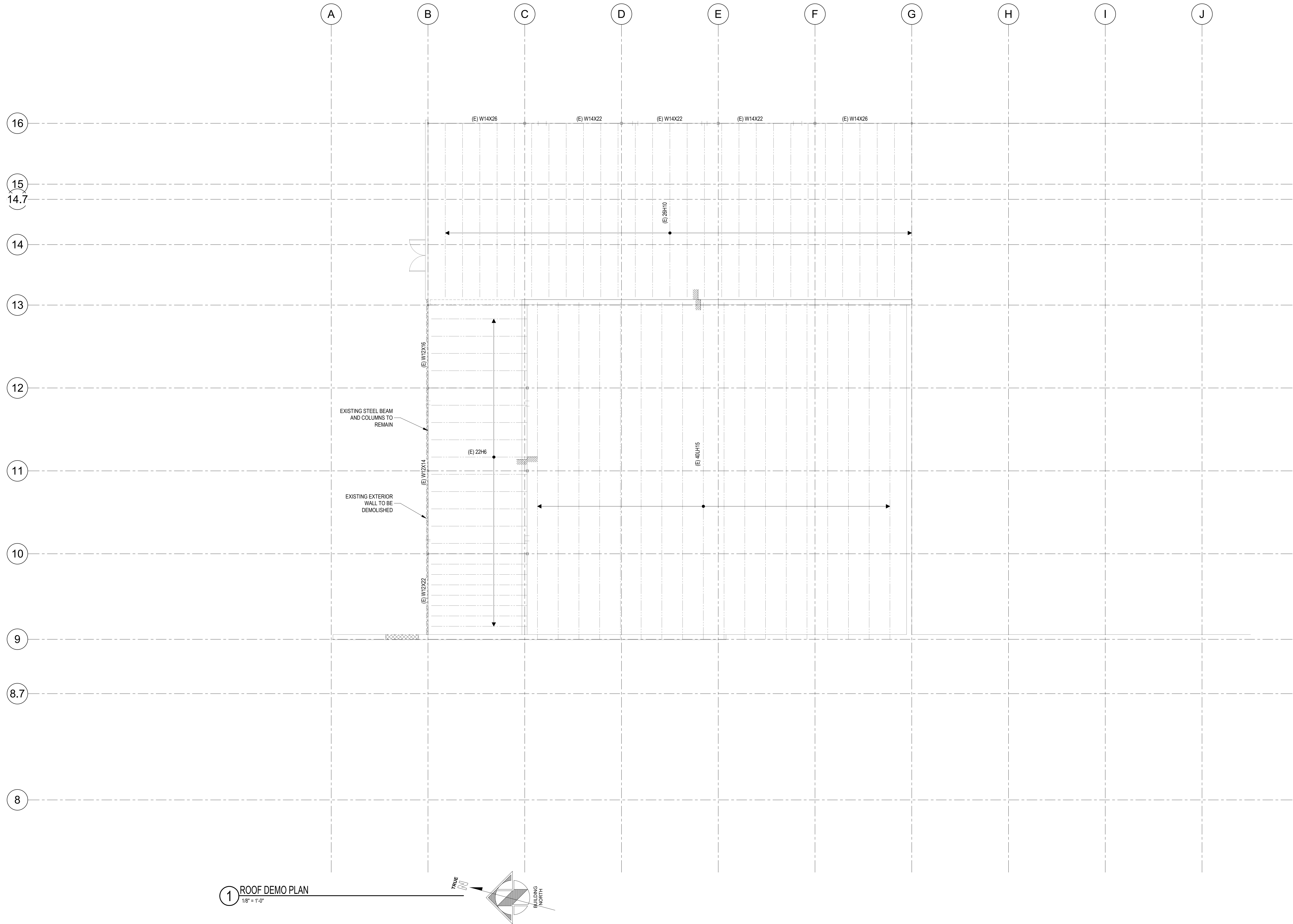
Sheet Title:
Main Level Demo Plan

Project No:
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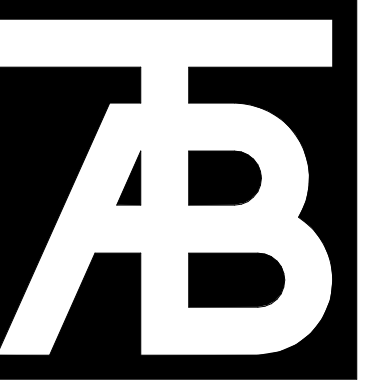
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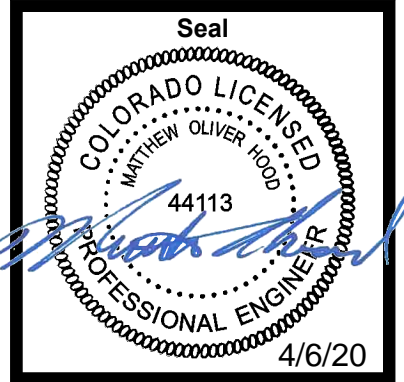
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1 ROOF DEMO PLAN
1/8" = 1'-0"



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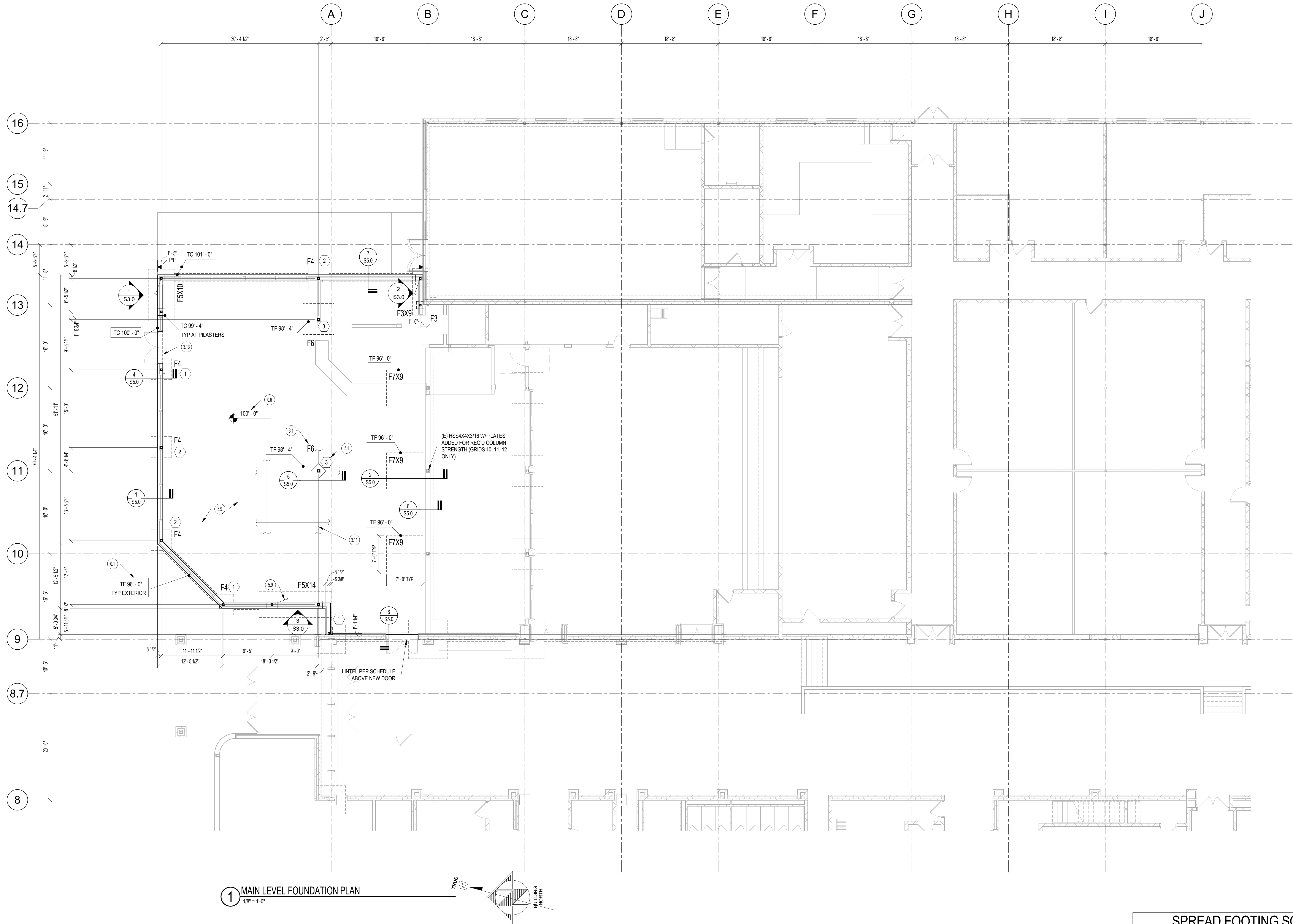
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Roof Demo Plan

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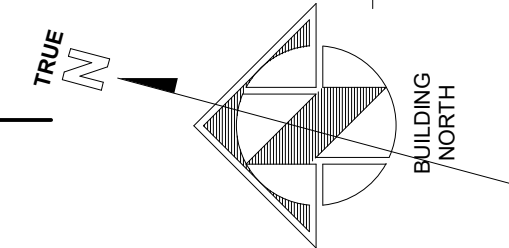
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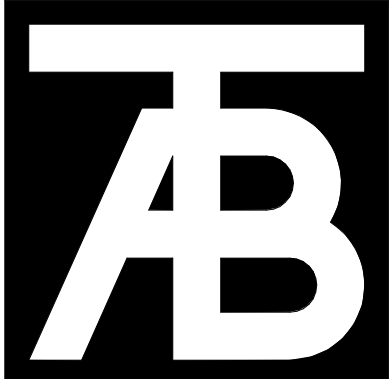


1 MAIN LEVEL FOUNDATION PLAN
1/8" = 1'-0"

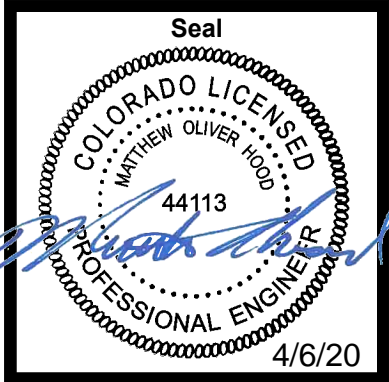


SPREAD FOOTING SCHEDULE				
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING
F3	3'-0"	3'-0"	1'-0"	#5 @12" OC EW BOT
F3X9	3'-0"	9'-0"	2'-0"	#7 @10" OC EW T&B
F4	4'-0"	4'-0"	1'-0"	#5 @12" OC EW BOT
F5X10	5'-0"	10'-0"	2'-0"	#7 @10" OC EW T&B
F5X14	5'-0"	14'-0"	2'-0"	#7 @10" OC EW T&B
F6	6'-0"	6'-0"	1'-0"	#5 @12" OC EW BOT
F7X9	7'-0"	9'-0"	1'-0"	#5 @10" OC EW T&B

- KEYNOTES**
- 0.1 BOXED NOTES INDICATE A TYPICAL CONDITION UNLESS NOTED OTHERWISE.
- 0.6 TOP OF SLAB UNLESS NOTED OTHERWISE.
- 3.1 INDICATES CONCRETE PAD FOOTING. SEE SCHEDULE FOR FOOTING TYPE AND REINFORCING.
- 3.9 4" CONCRETE SLAB-ON-GRADE REINF W/ 6X6-W2.1W2.1 WWR AT MID HEIGHT.
- 3.11 CONTROL JOINTS AT ALL COLUMN LINES AND BALANCE OF SLAB NOT TO EXCEED 10'-0" OC EACH WAY.
- 3.13 PLACE SLAB OVER GRADE BEAM AT THRESHOLD. SEE DETAILS.
- 5.1 INDICATES STEEL COLUMN TYPE. SEE SCHEDULE.
- 5.9 INDICATES BRACE FRAMING.



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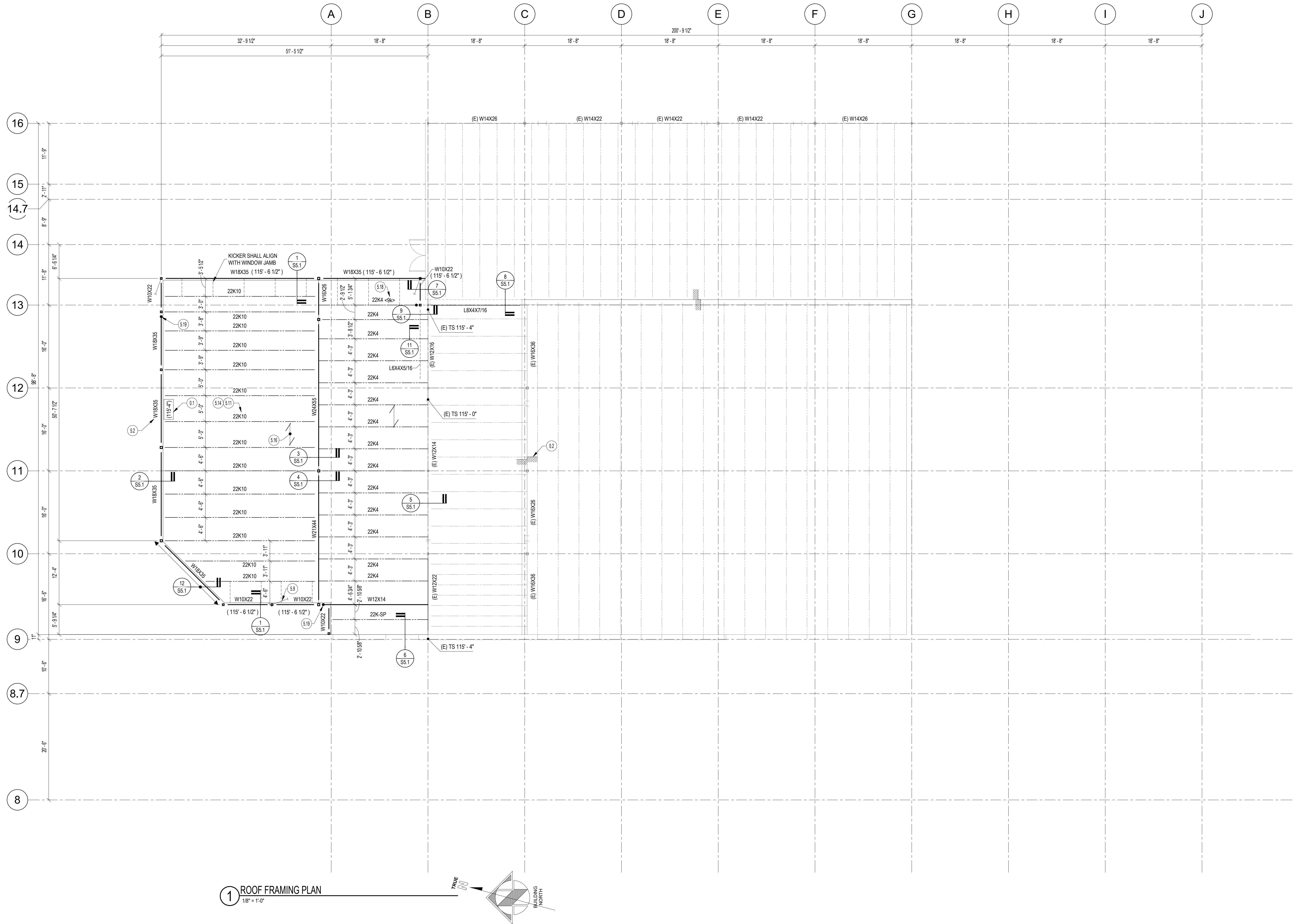
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Main Level Plan

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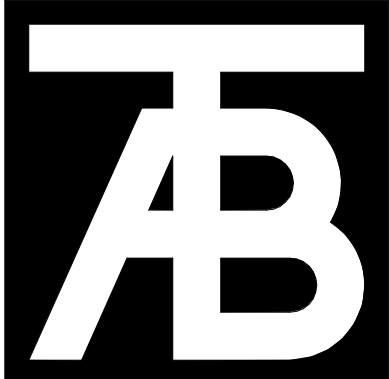
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1 ROOF FRAMING PLAN
1/8" = 1'-0"

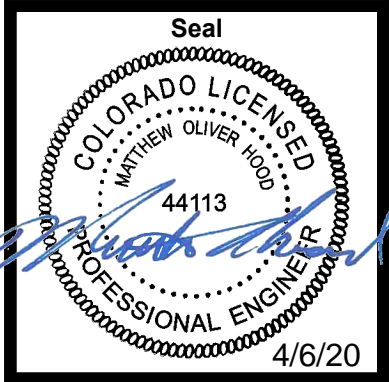
KEYNOTES

- 0.1 BOXED NOTES INDICATE A TYPICAL CONDITION UNLESS NOTED OTHERWISE.
- 0.2 INDICATES CHANGE IN ELEVATION.
- 5.2 INDICATES STEEL BEAM SIZE AND TOP OF STEEL ELEVATION.
- 5.9 INDICATES BRACE FRAMING.
- 5.11 JOIST DESIGN FOR 20psf DEAD LOAD AND 72psf UNIFORM SNOW LOAD PLUS WEIGHT OF MECHANICAL UNITS WHERE APPLICABLE. SPACING AS SHOWN ON PLAN. SEE LOADING PLAN FOR ADDITIONAL SNOW LOADS DUE TO DRIFTING. DESIGN ROOF JOIST FOR A NET UPLIFT OF 10psf.
- 5.14 JOIST BRIDGING PER SJI SPECIFICATIONS BY JOIST SUPPLIER.
- 5.16 1 1/2" TYPE "B"x18GA METAL ROOF DECK, 3 SPAN MINIMUM. ATTACH DECK WITH HILTI X-ENP19 FASTENERS IN A 36/4 PATTERN AND #10 SCREW SIDELAP CONNECTION @ 12" OC TO DEVELOP A DIAPHRAGM SHEAR CAPACITY OF 450 plf.
- 5.18 JOIST SHALL BE DESIGNED FOR <XX> SERVICE LEVEL DRAG WIND LOAD WHERE INDICATED ON PLAN.
- 5.19 INDICATES DRAG CONNECTION. SEE DETAILS.



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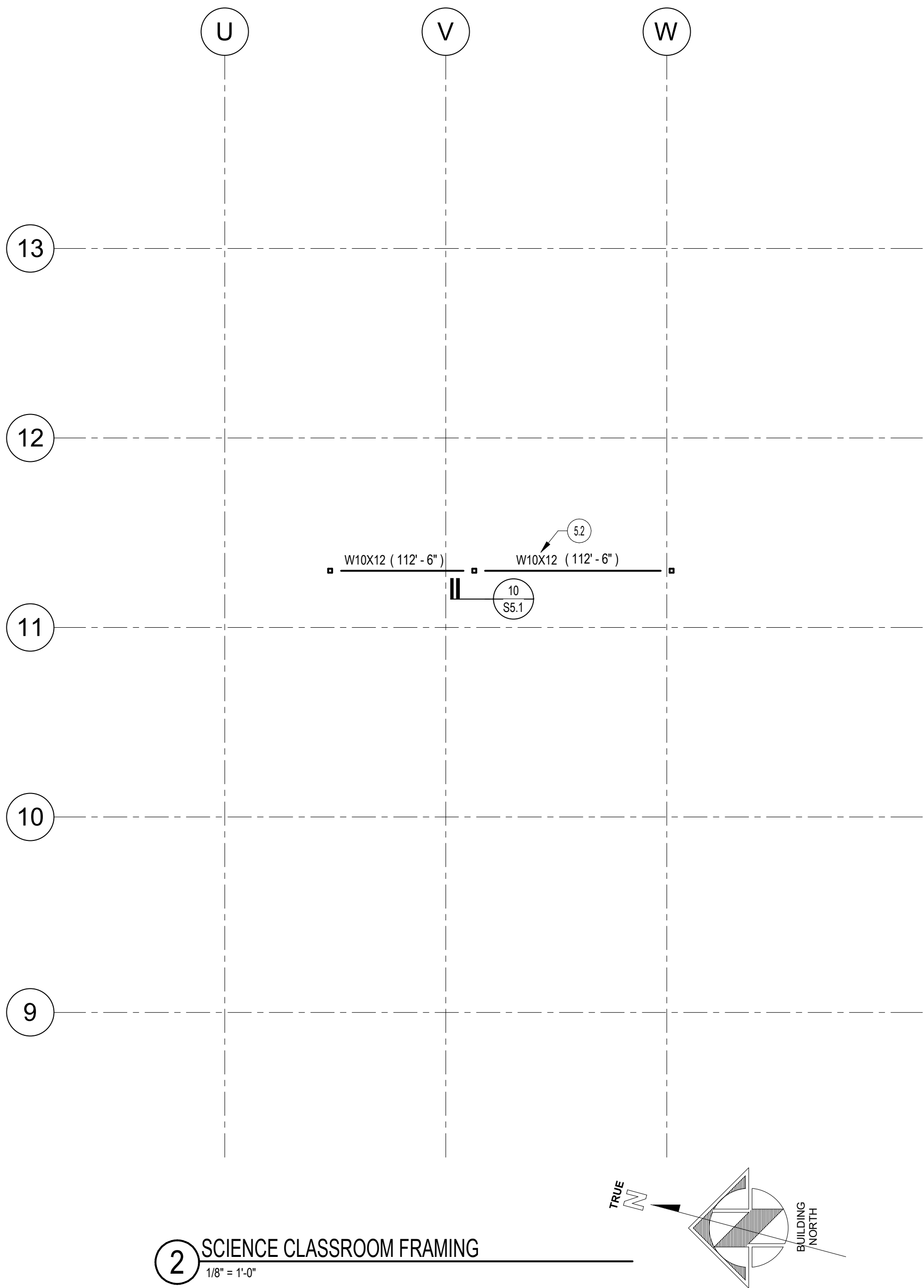
Revisions:		
No	Description	Date

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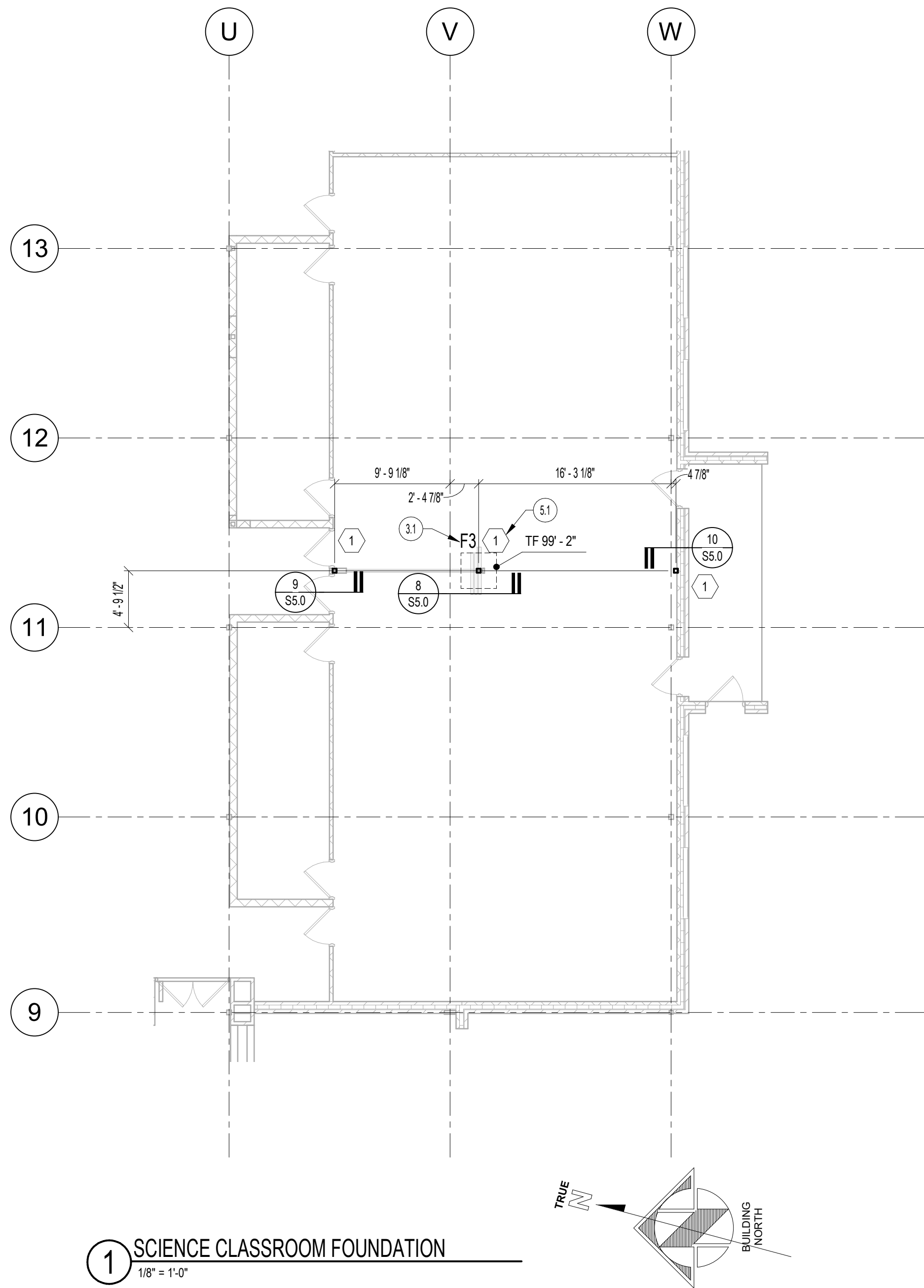
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Roof Framing Plan

Project No:
TAB-1935.01
JH-20191103

Sheet No:
S2.12

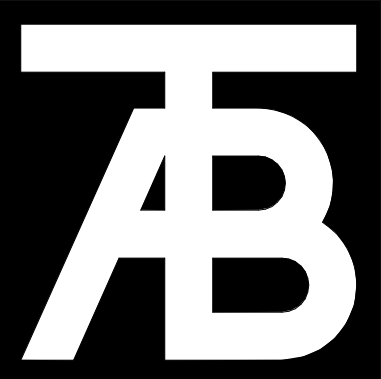


2 SCIENCE CLASSROOM FRAMING
1/8" = 1'-0"



1 SCIENCE CLASSROOM FOUNDATION
1/8" = 1'-0"

- KEYNOTES
- 3.1 INDICATES CONCRETE PAD FOOTING. SEE SCHEDULE FOR FOOTING TYPE AND REINFORCING.
 - 5.1 INDICATES STEEL COLUMN TYPE. SEE SCHEDULE.
 - 5.2 INDICATES STEEL BEAM SIZE AND TOP OF STEEL ELEVATION.



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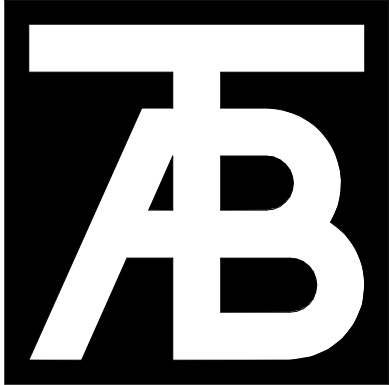
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Sheet Title:
**Science
Classroom**

Project No:
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S2.21

BOXED NOTES INDICATE A
TYPICAL CONDITION EXISTS
UNLESS NOTED OTHERWISE



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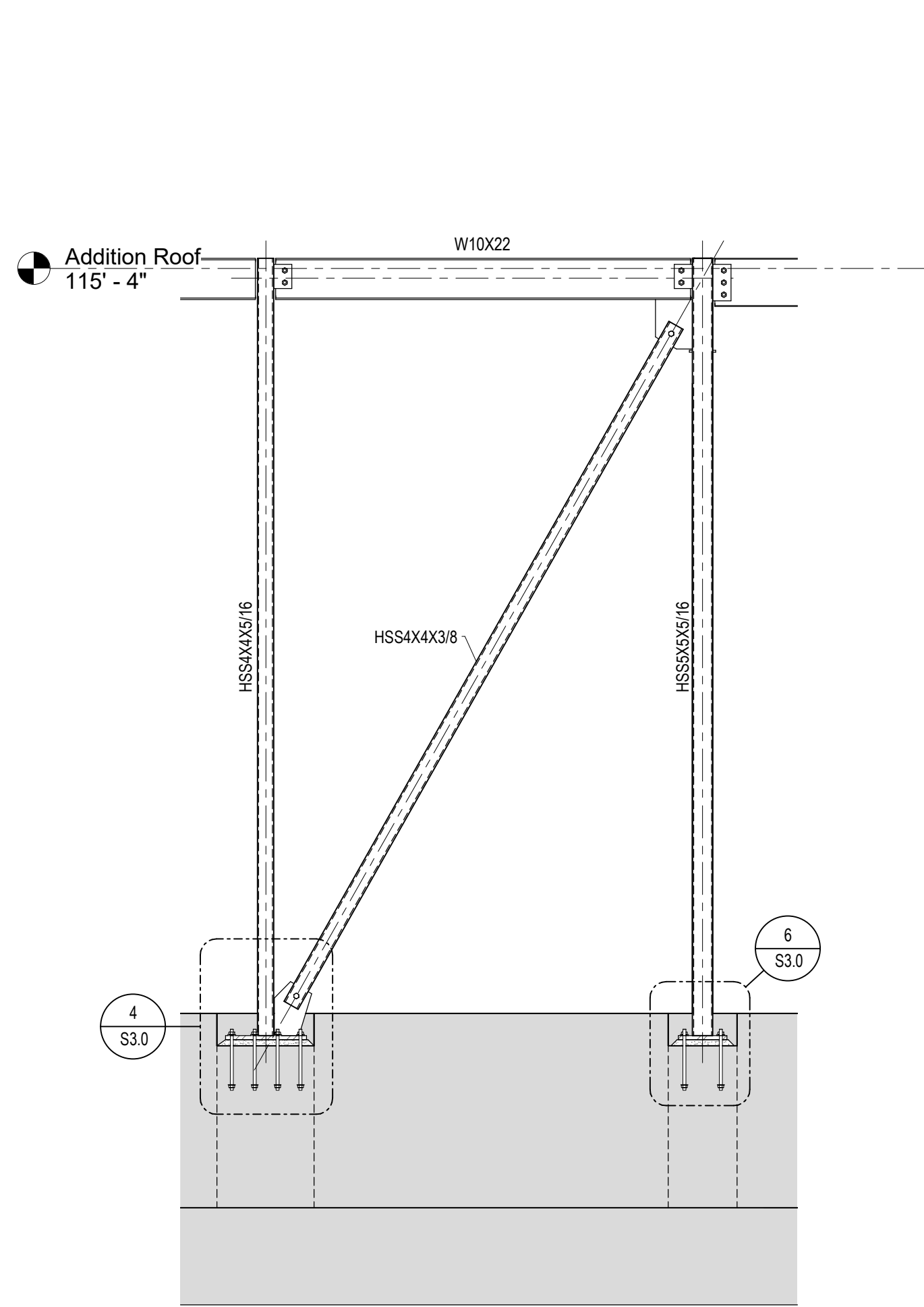
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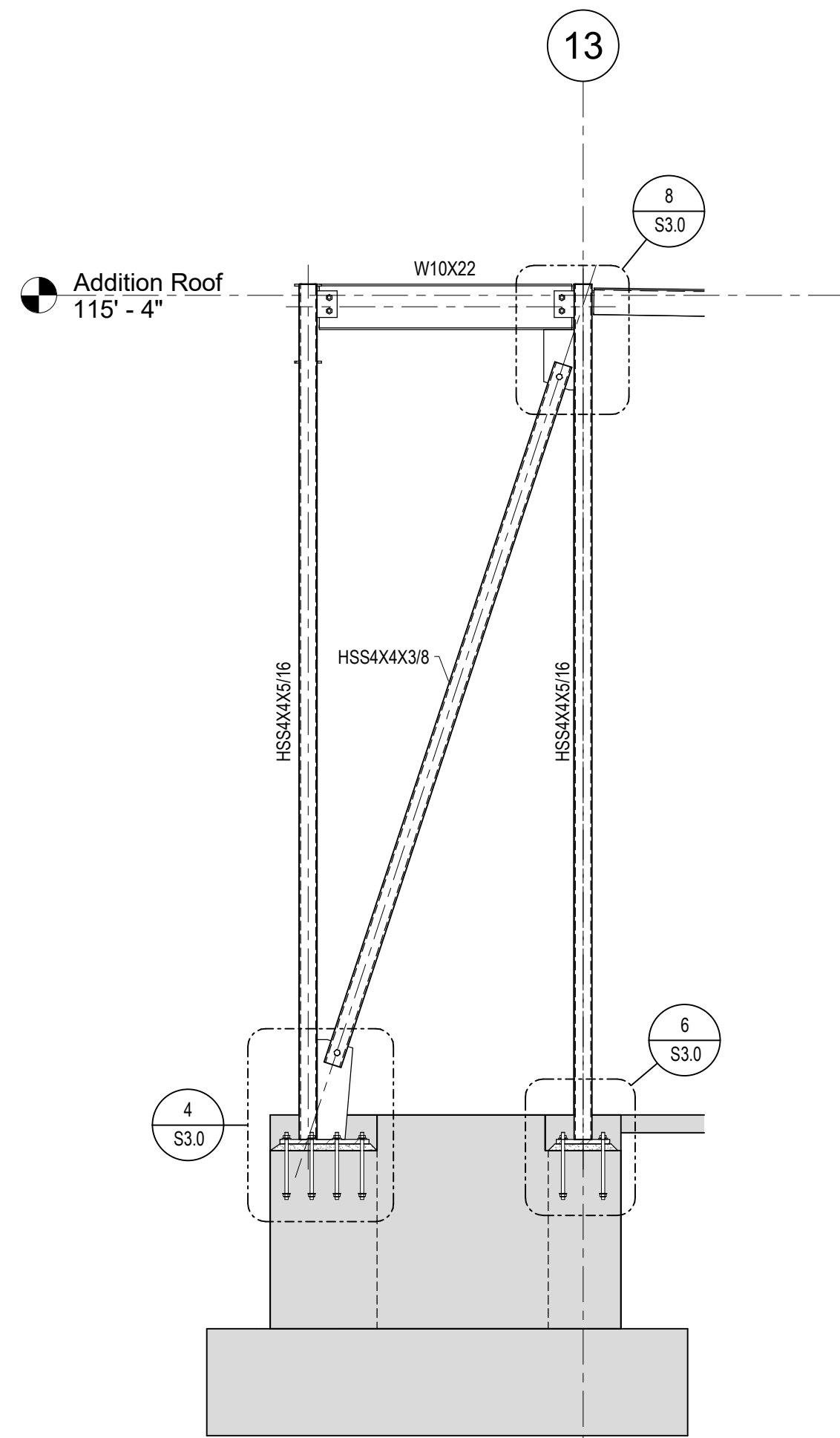
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**Braced
Frame
Elevations
& Details**

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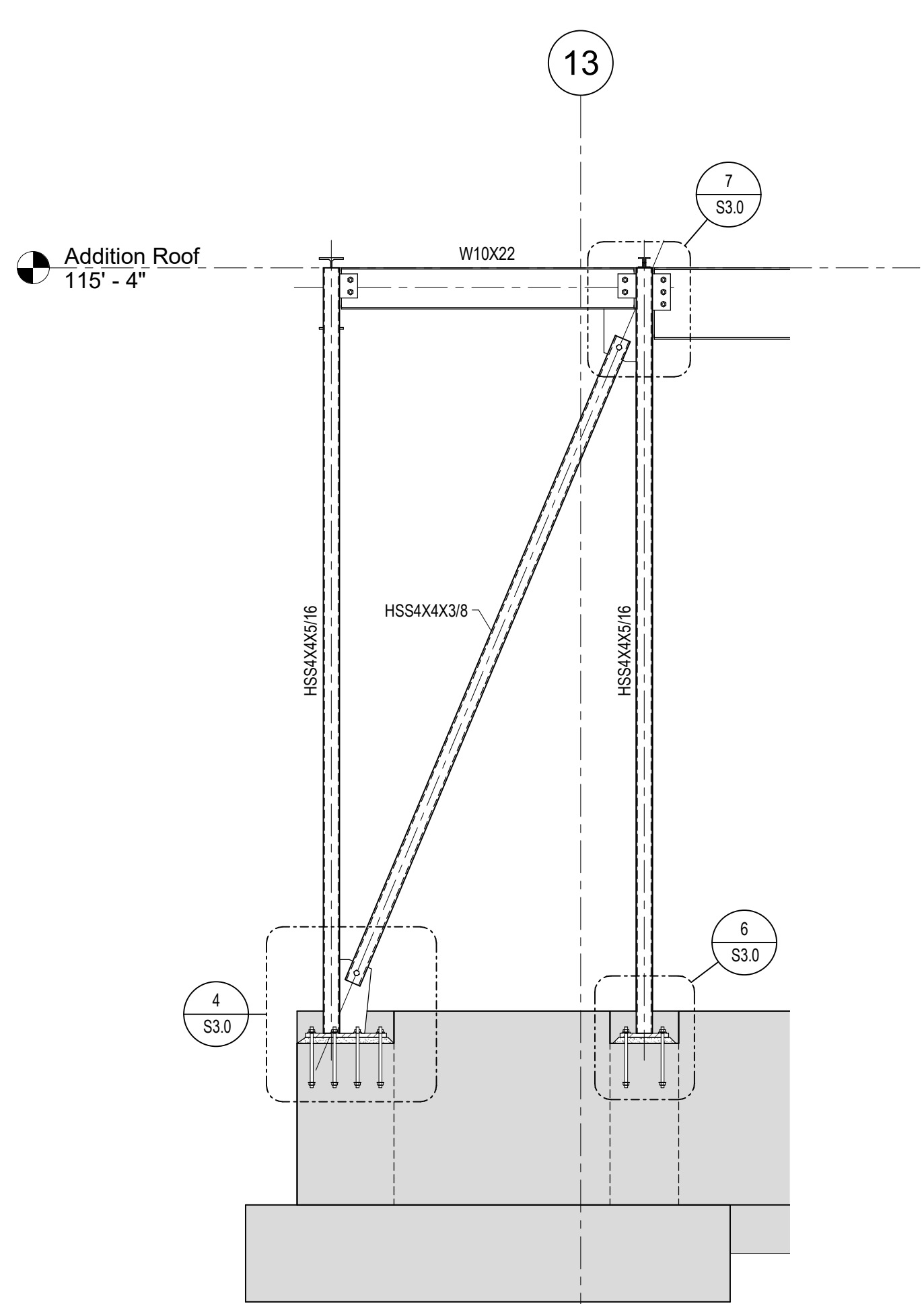
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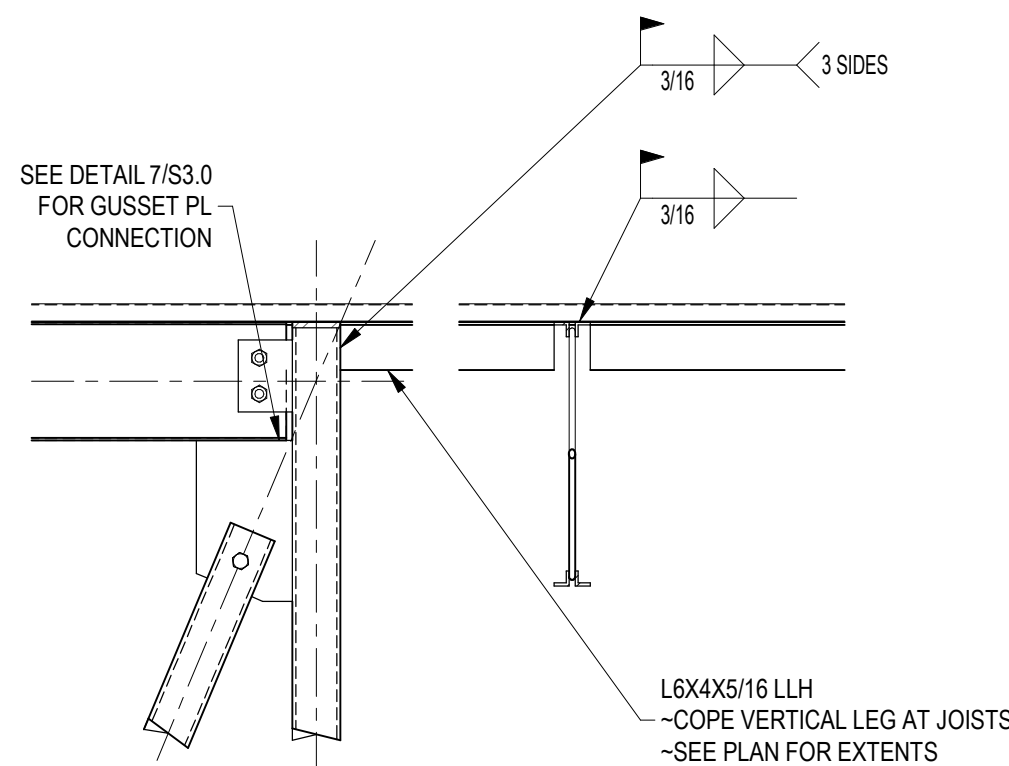
3 WEST FRAME
3/8" = 1'-0"



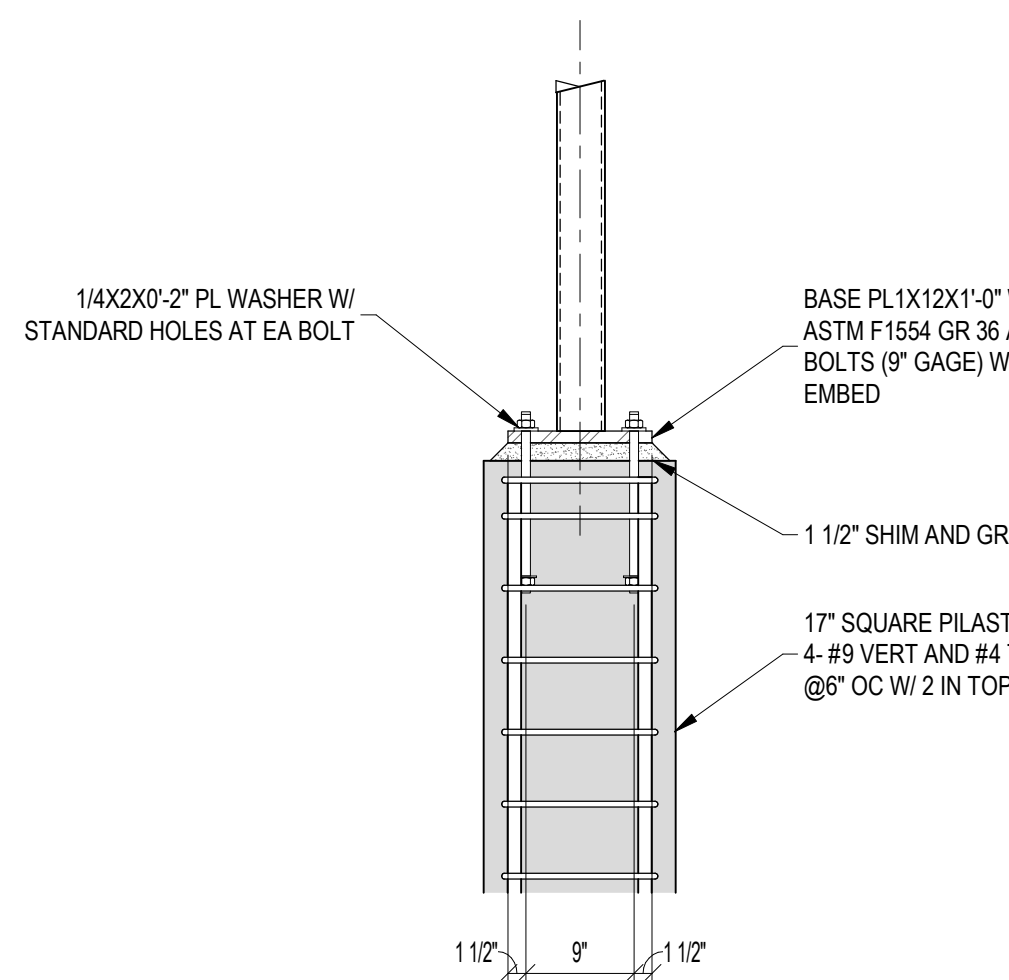
2 SOUTH FRAME
3/8" = 1'-0"



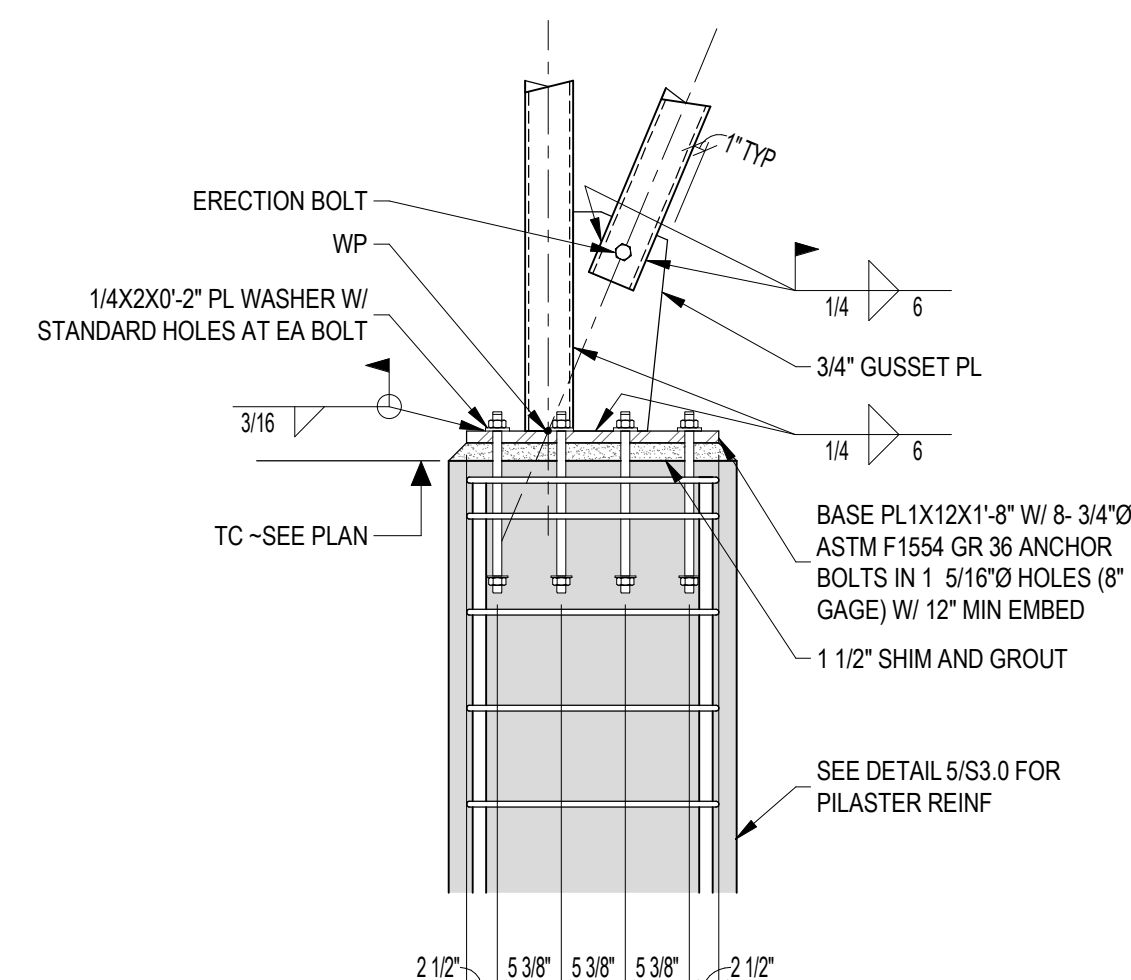
1 NORTH FRAME
3/8" = 1'-0"



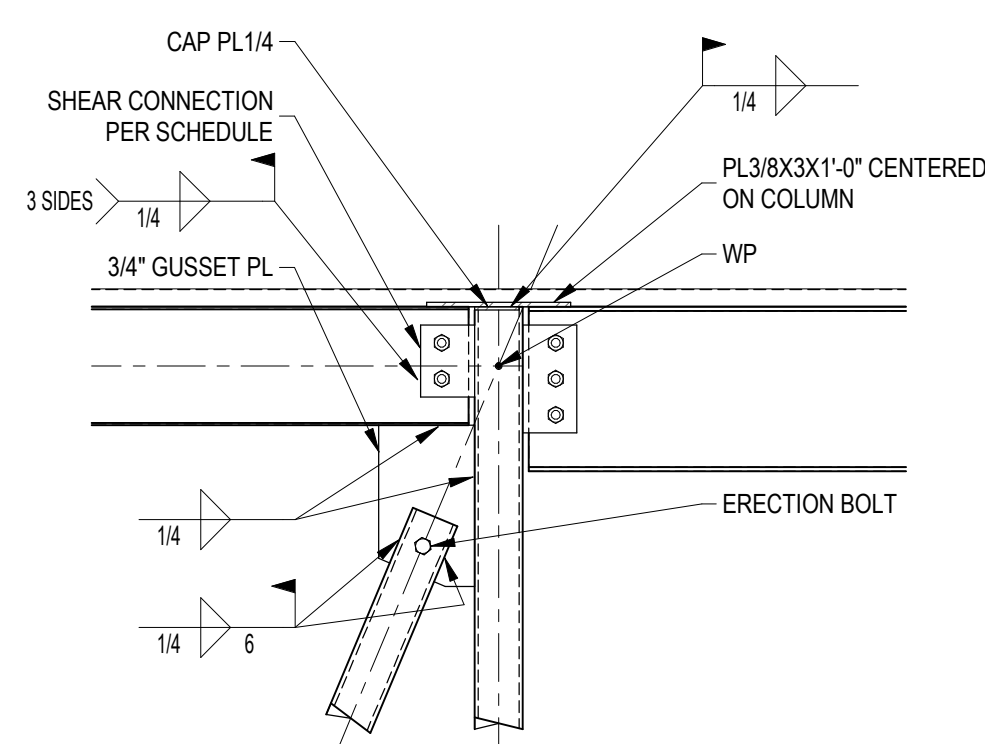
8 DRAG ANGLE AT STEEL COLUMN
3/4" = 1'-0"



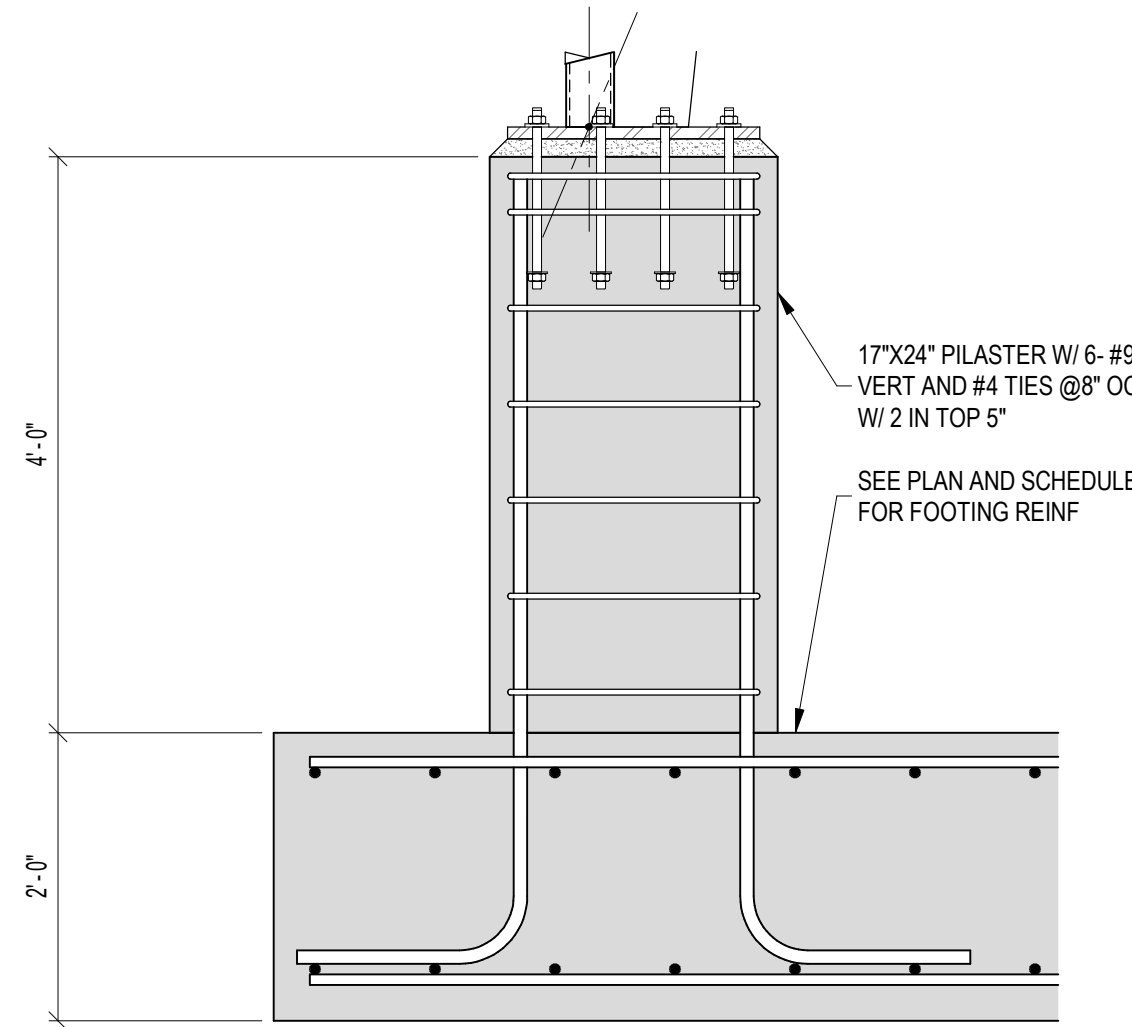
6 BRACED FRAME COLUMN BASE PLATE
3/4" = 1'-0"



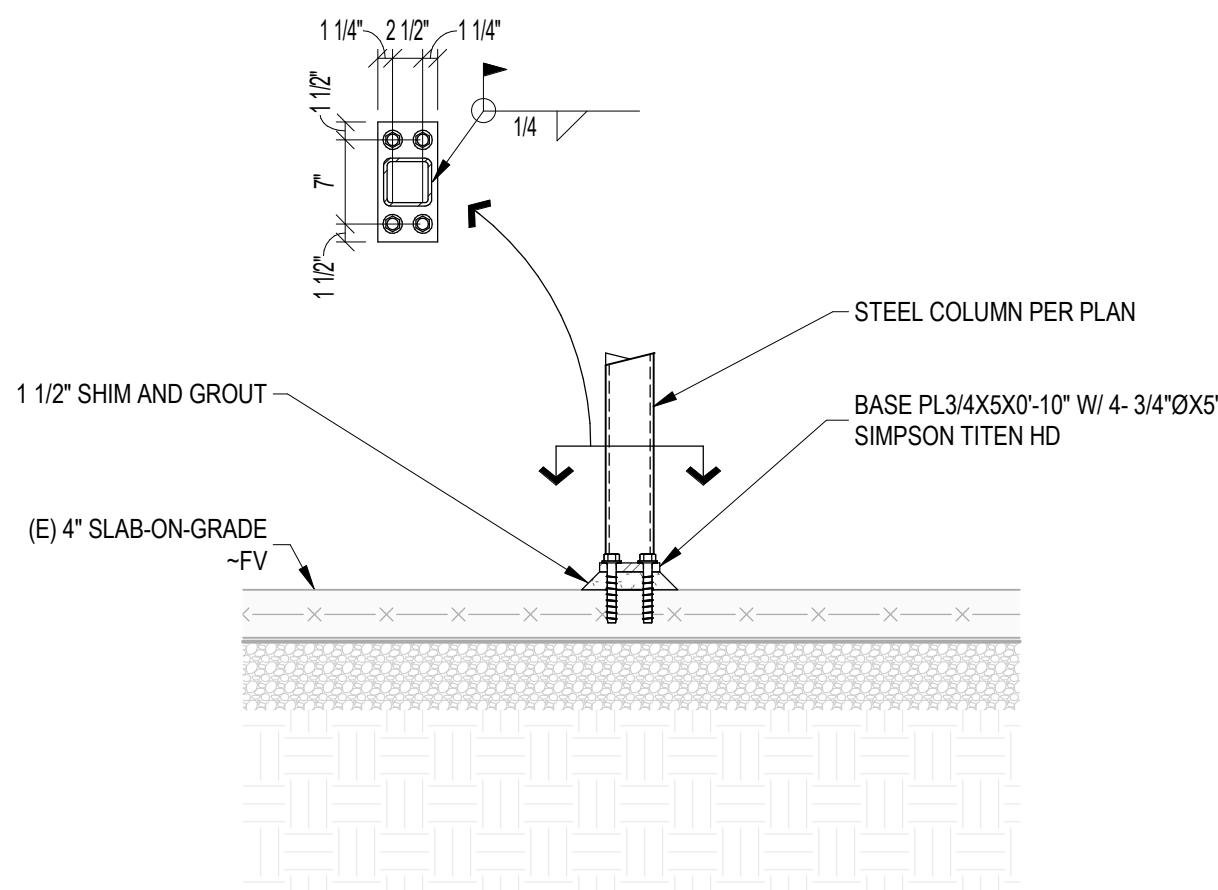
4 BRACED FRAME GUSSET BASE PLATE
3/4" = 1'-0"



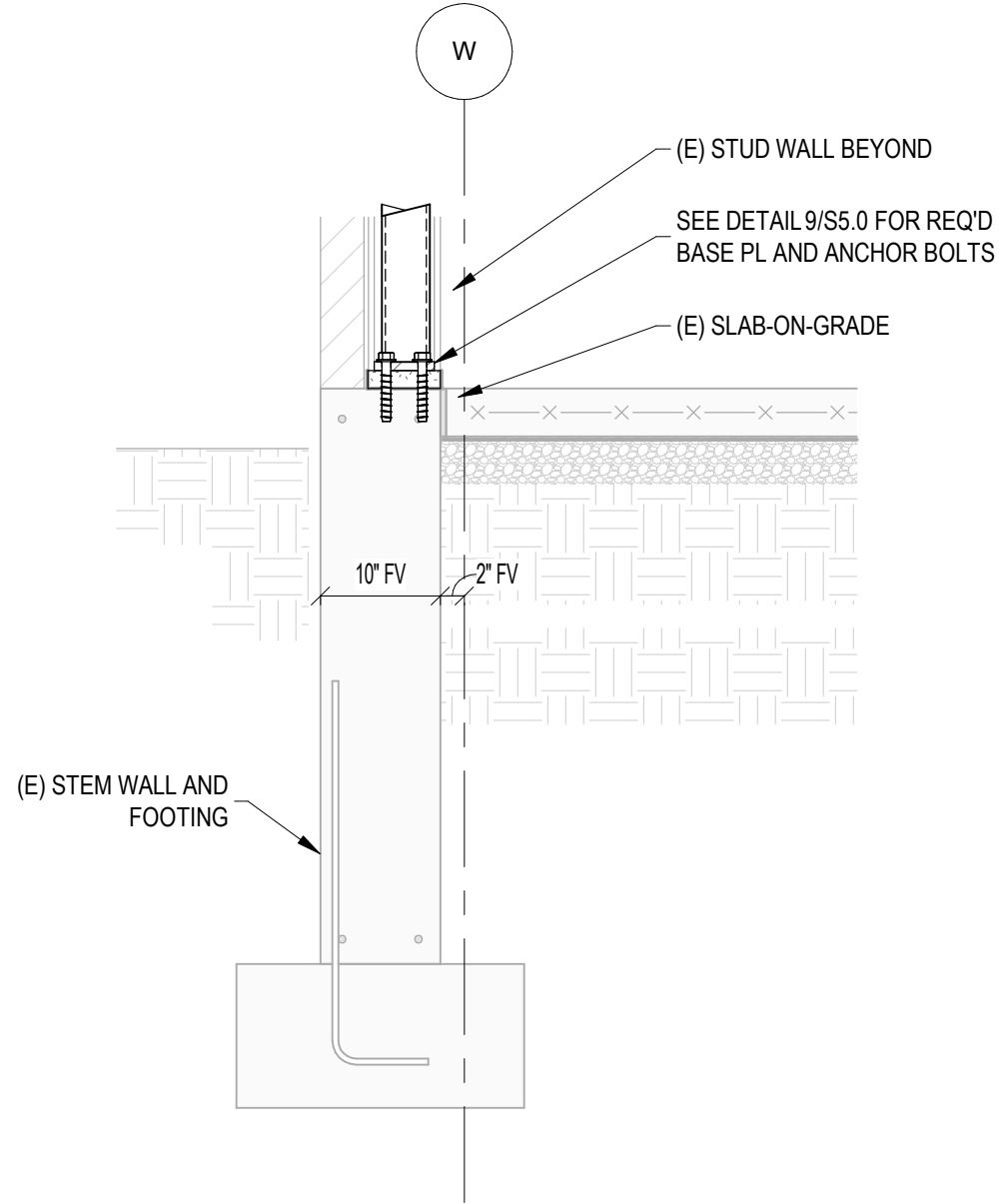
7 BRACED FRAME GUSSET PLATE
3/4" = 1'-0"



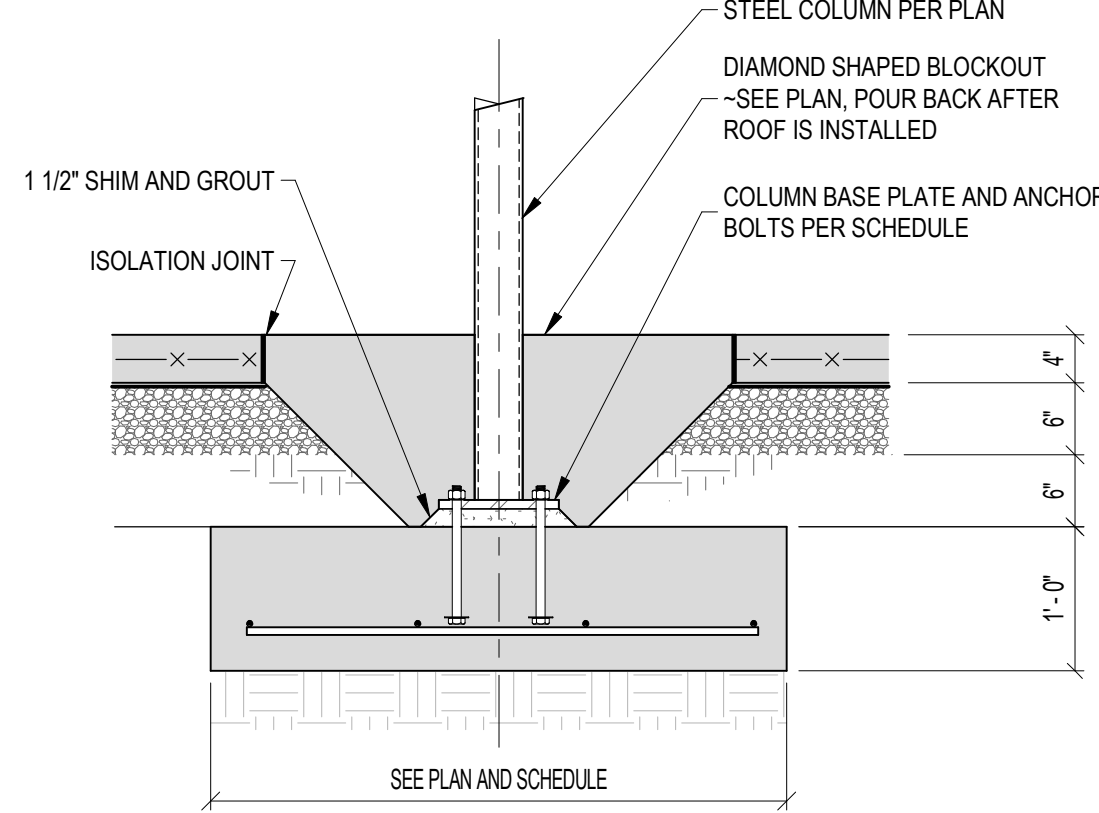
5 BRACED FRAME PILASTER AND FOOTING
3/4" = 1'-0"



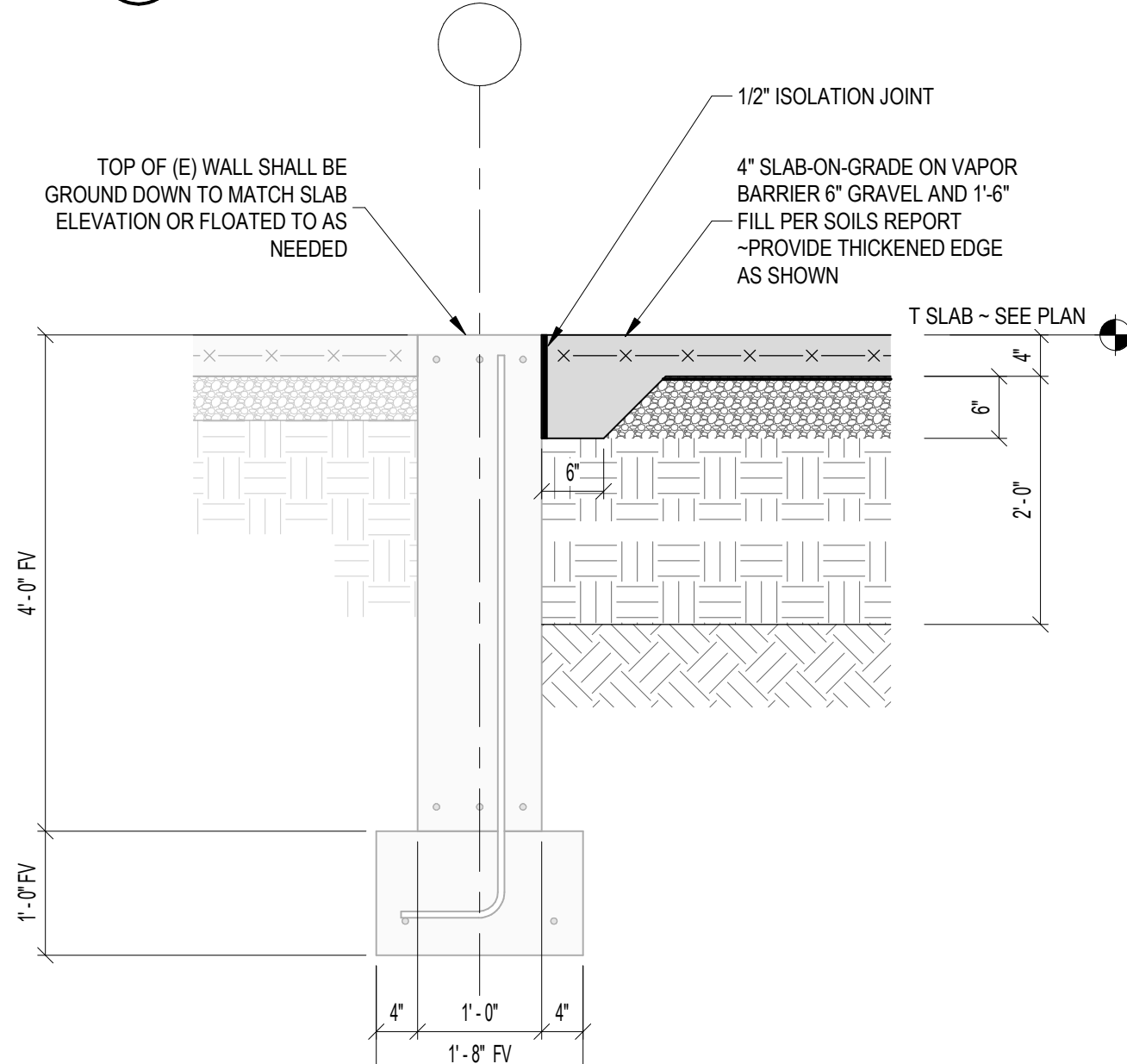
9 STEEL COLUMN AT SLAB-ON-GRADE
3/4" = 1'-0"



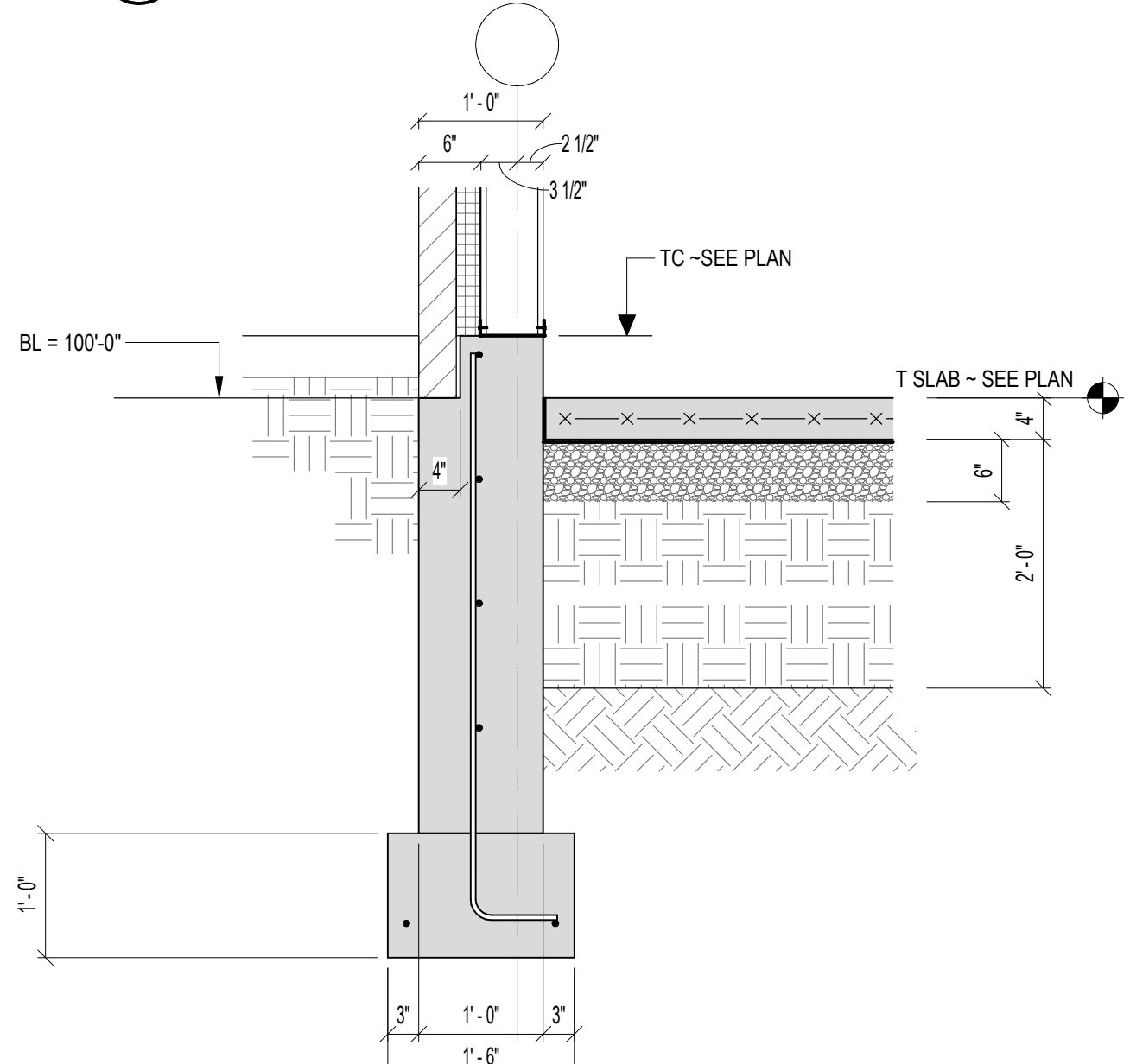
10 NEW STEEL COLUMN AT (E) STEM WALL
3/4" = 1'-0"



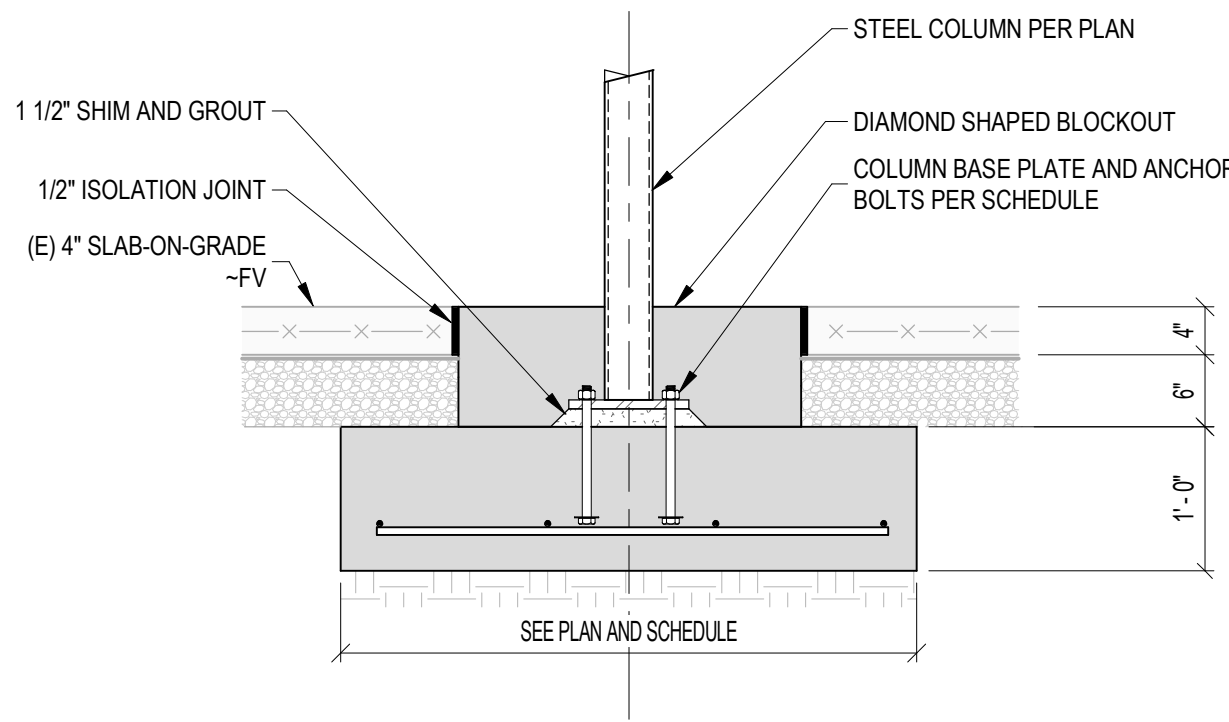
5 STEEL COLUMN FOUNDATION
3/4" = 1'-0"



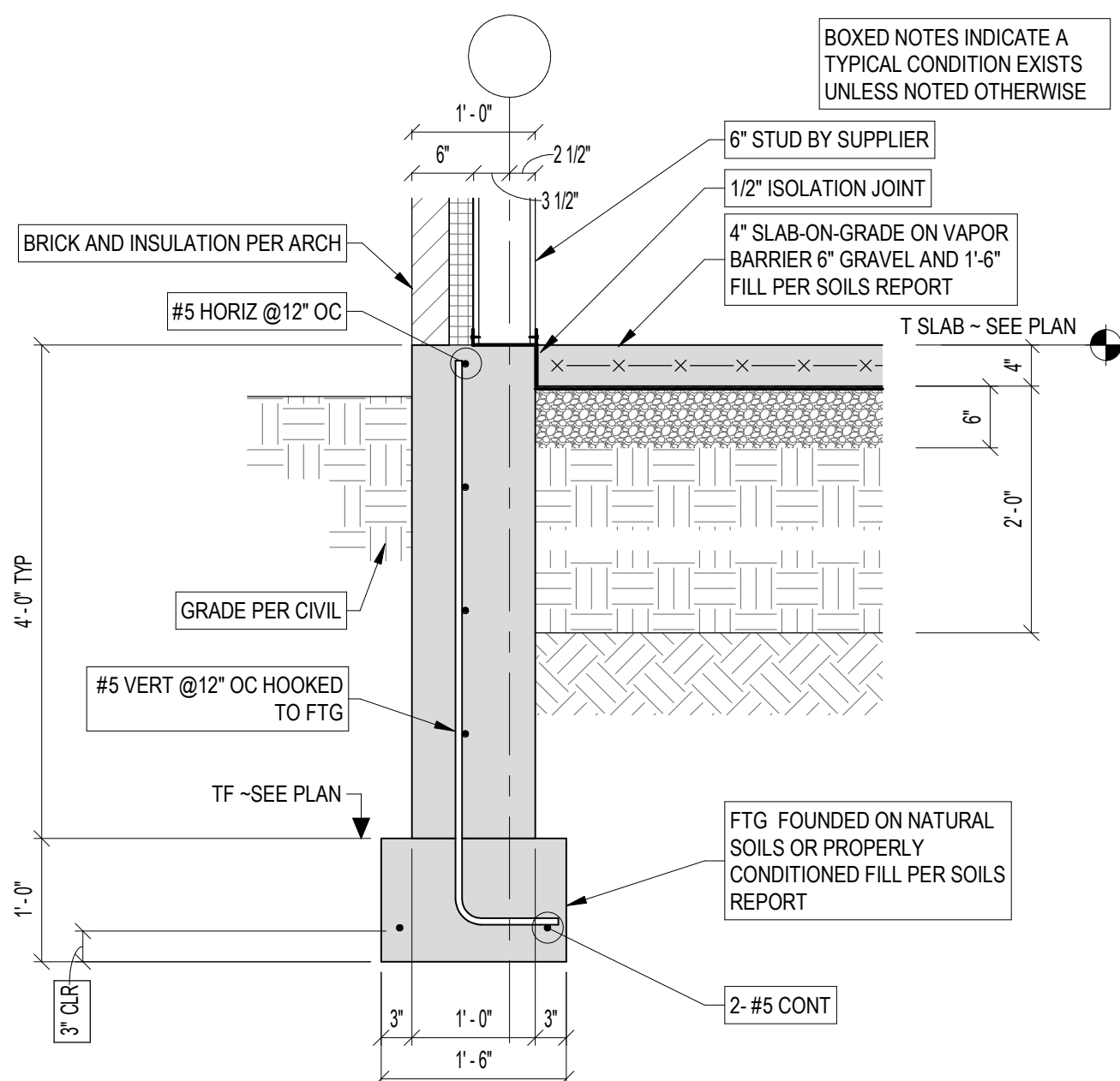
6 THRESHOLD AT NEW TO EXISTING
3/4" = 1'-0"



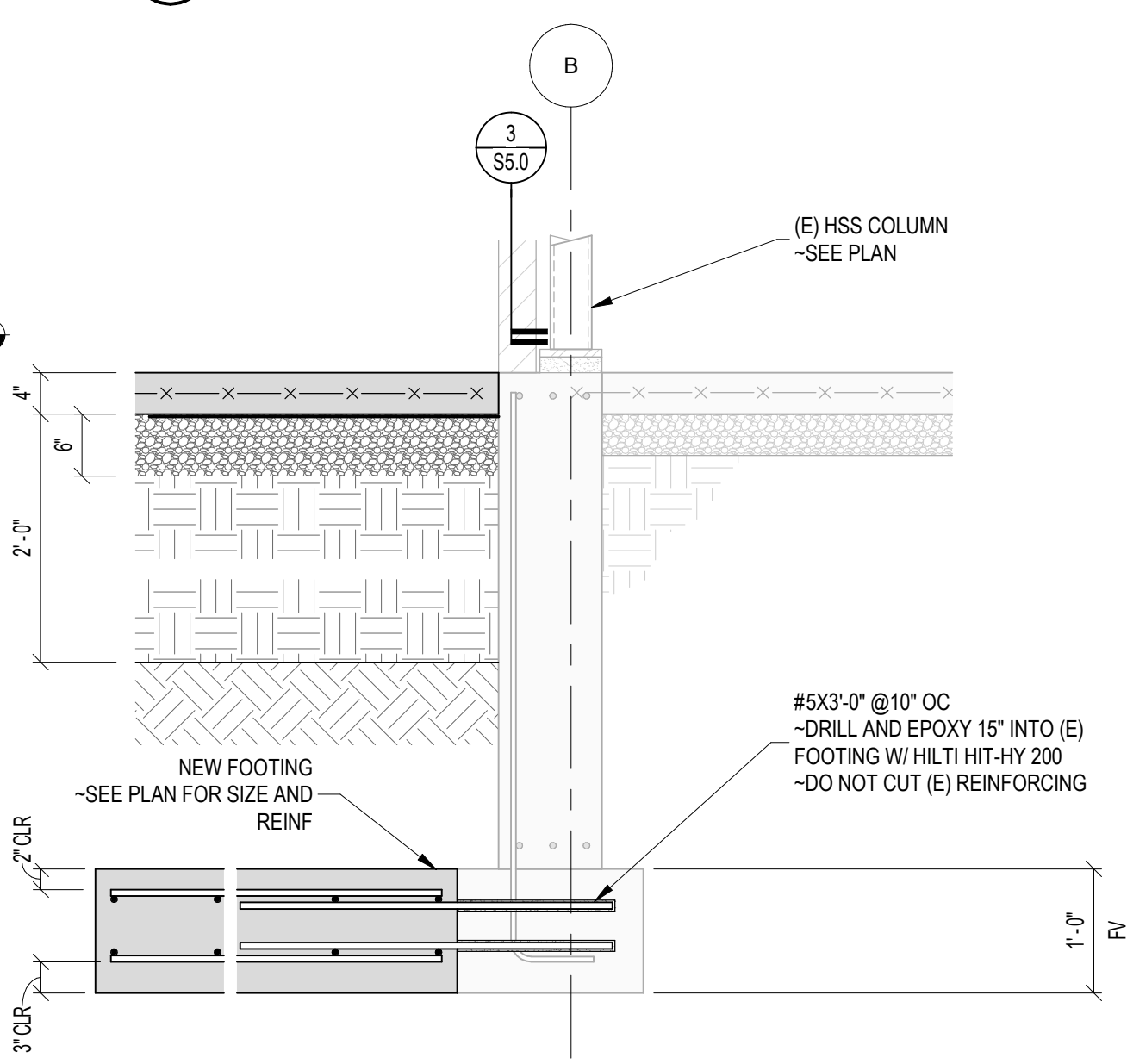
7 GRADE WALL AT LEDGE
3/4" = 1'-0"



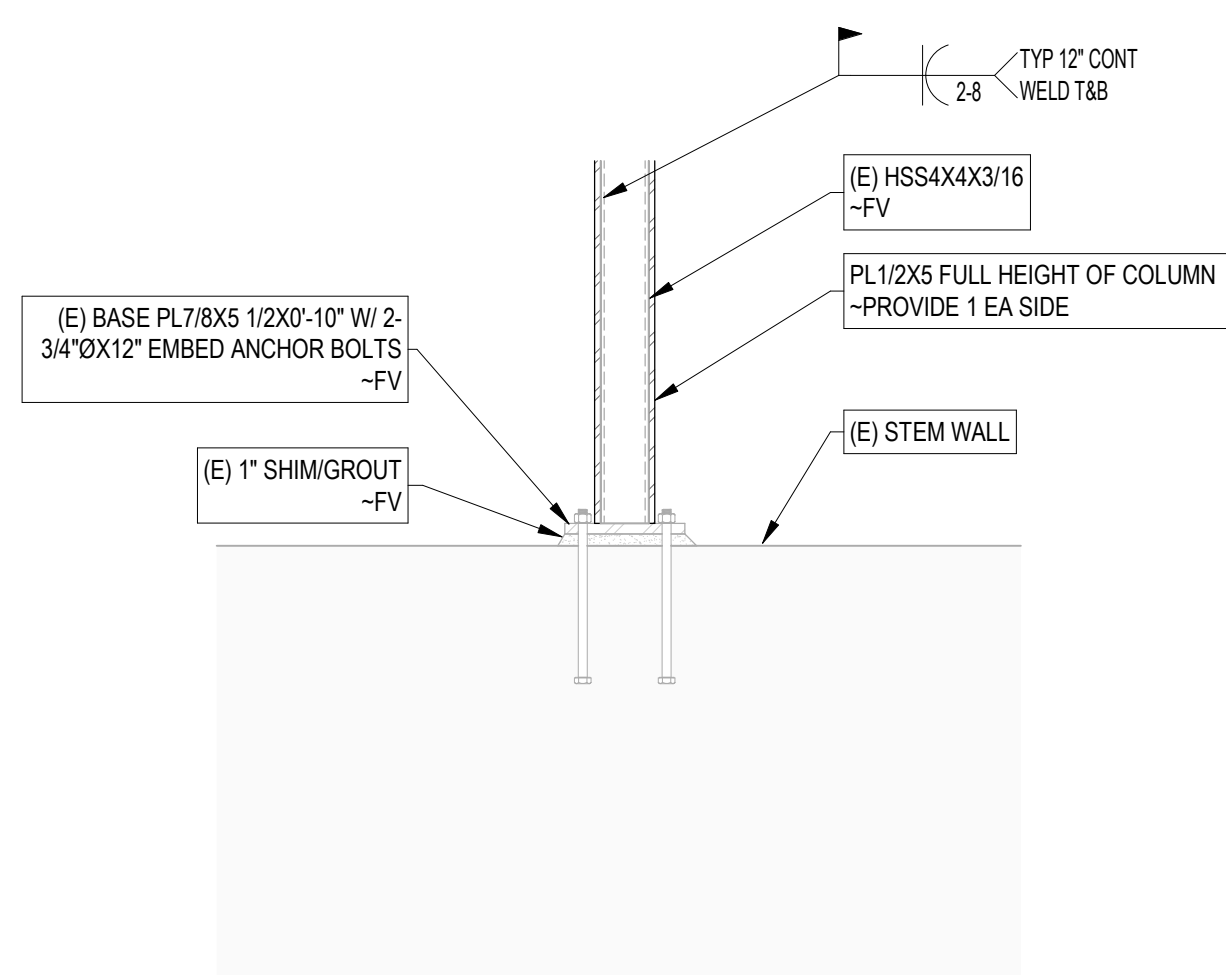
8 STEEL COLUMN FOUNDATION AT SCIENCE ROOM
3/4" = 1'-0"



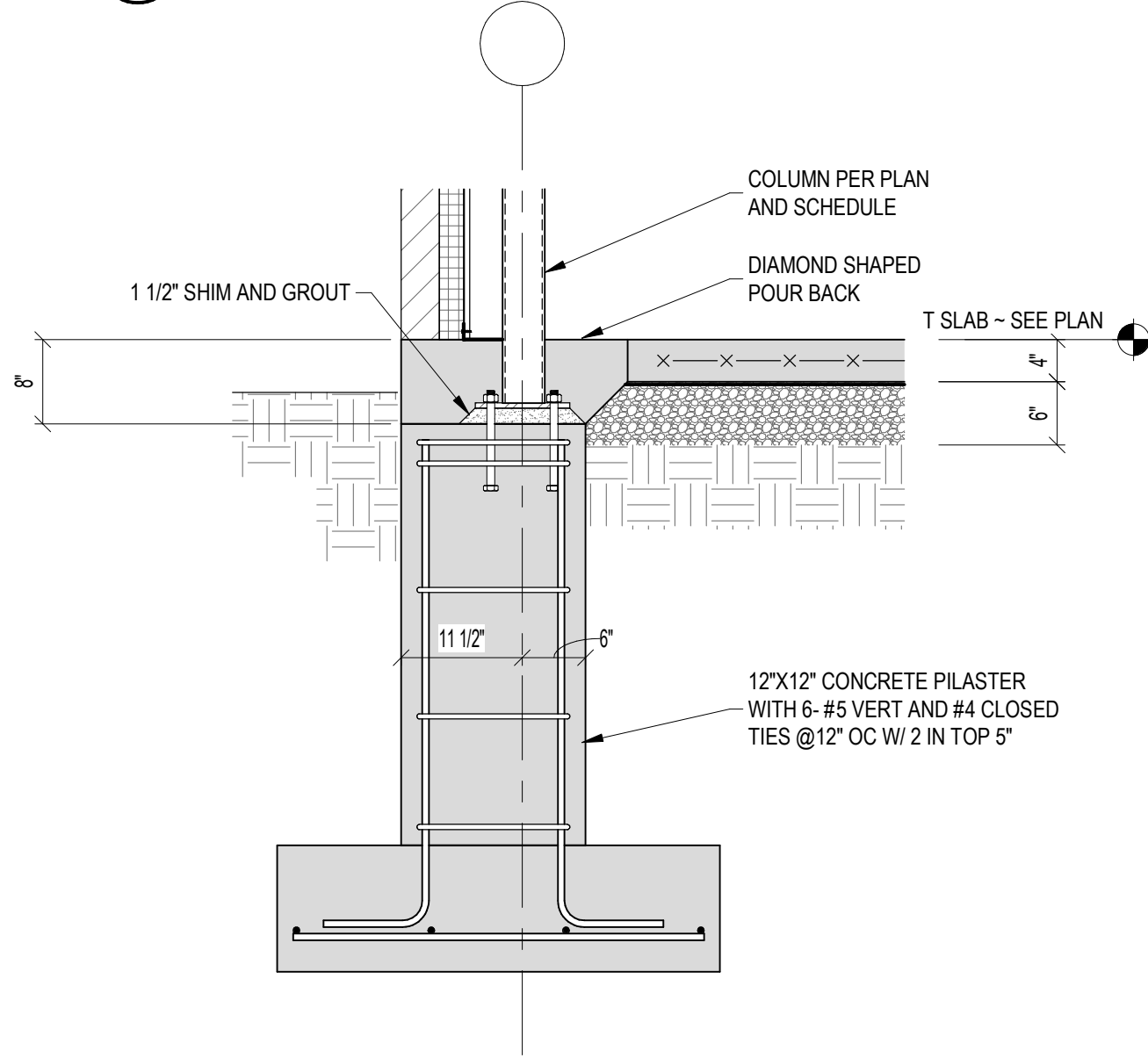
1 TYPICAL GRADE WALL
3/4" = 1'-0"



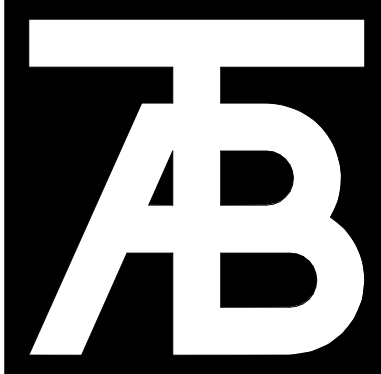
2 EXPANDED FOOTING
3/4" = 1'-0"



3 (E) COLUMN STIFFENER AT GRID B
3/4" = 1'-0"



4 COLUMN PILASTER
3/4" = 1'-0"



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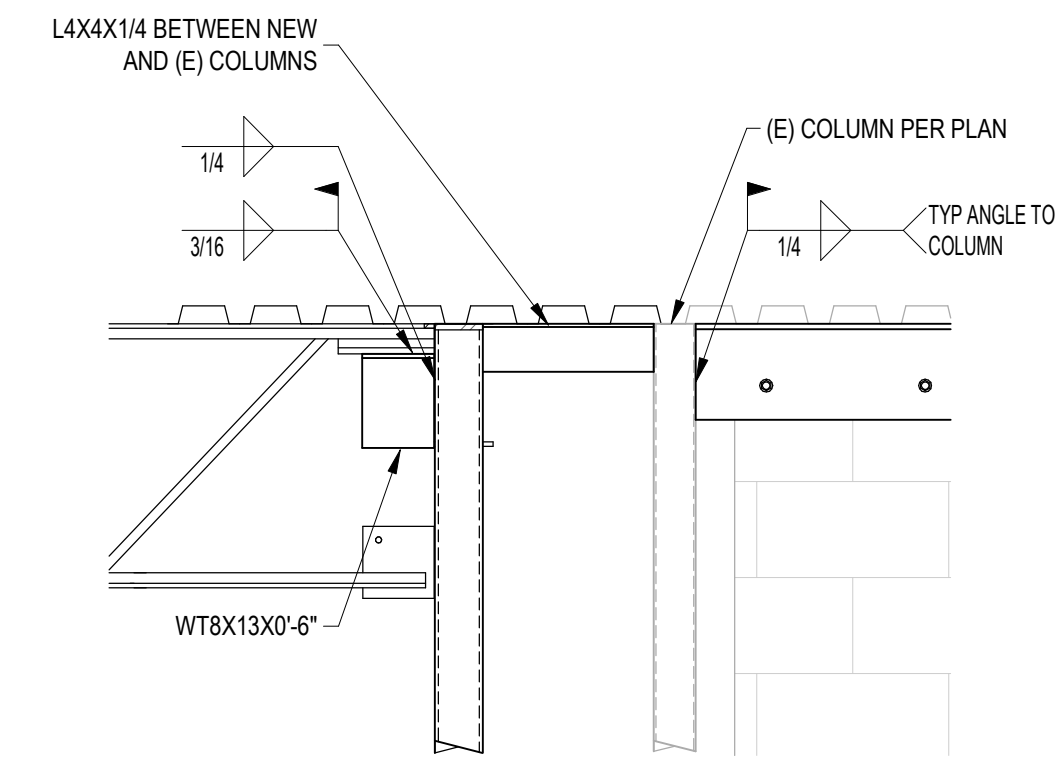
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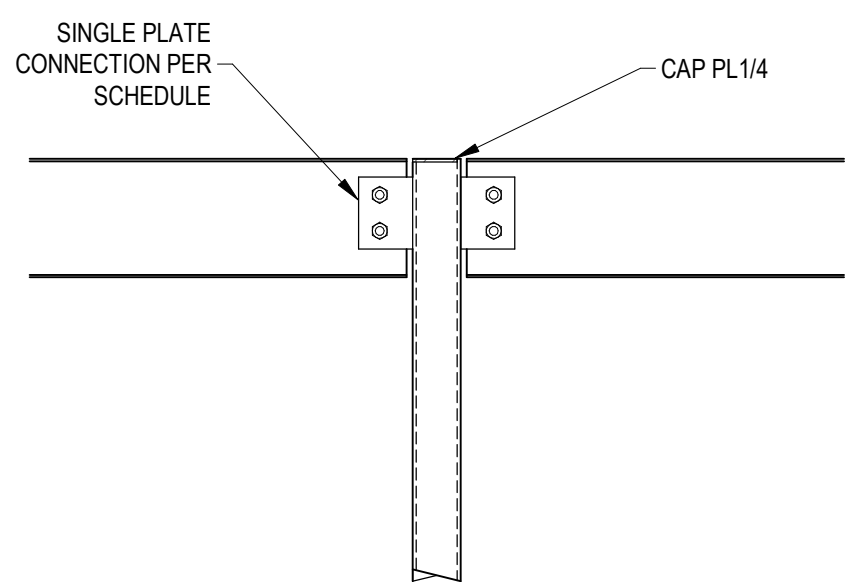
Sheet Title:
Foundation Details

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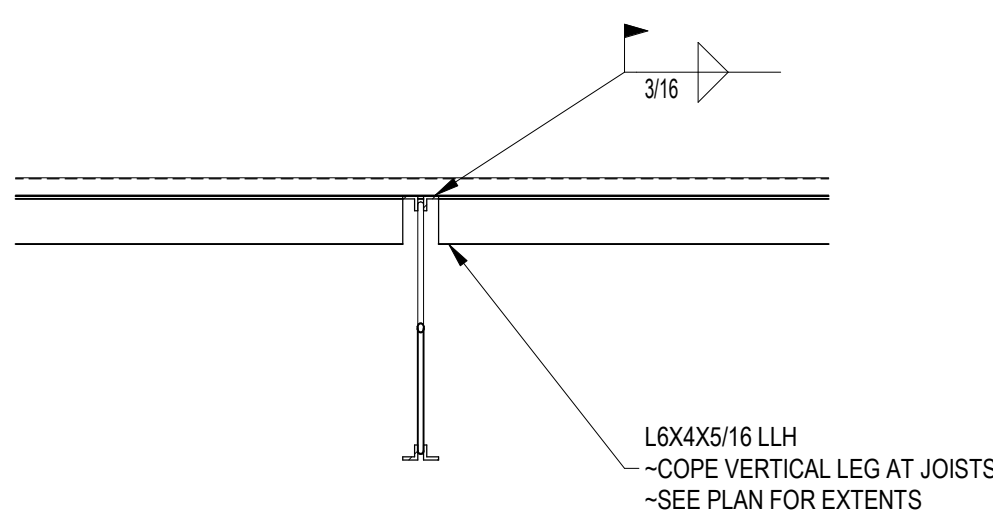
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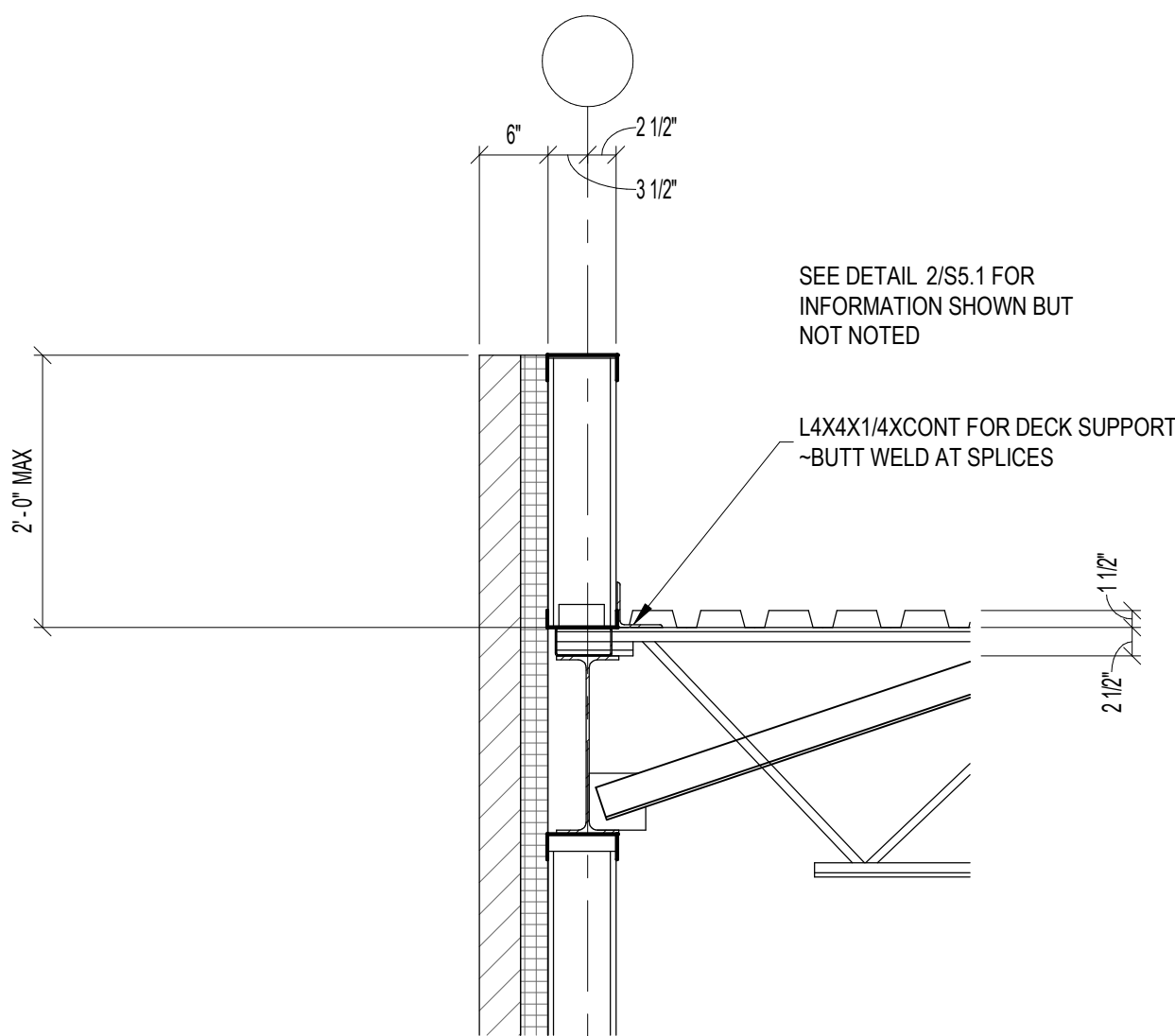
9 ANGLE CONNECTION AT COLUMNS
3/4" = 1'-0"



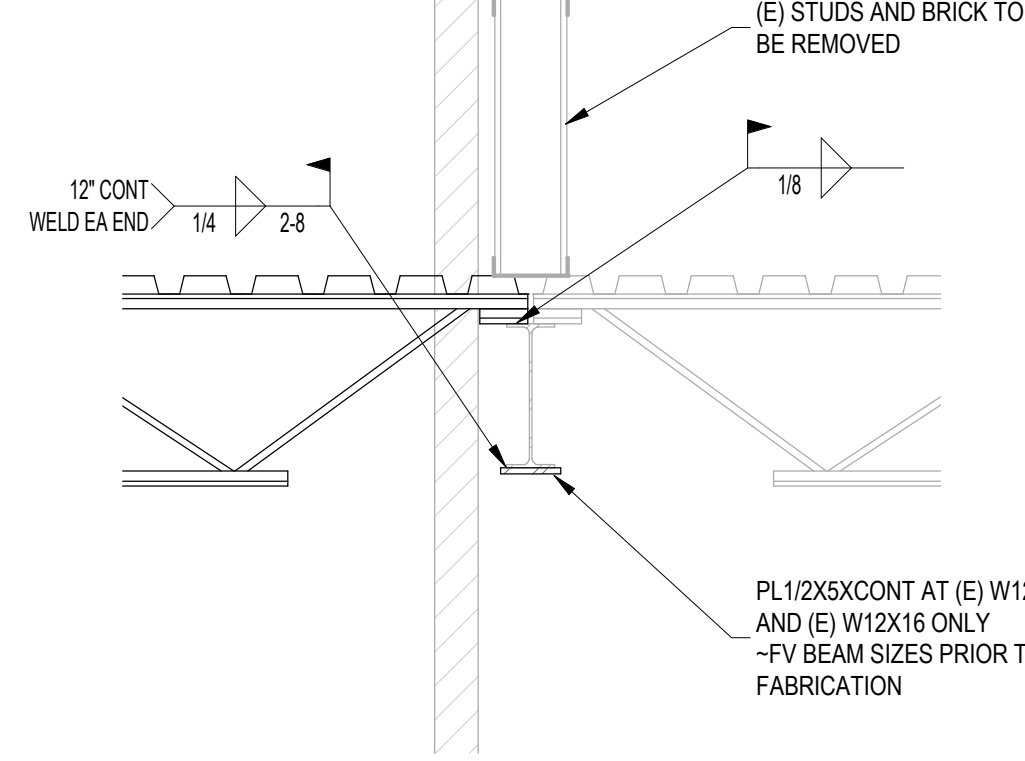
10 PARTITION BEAM AT COLUMN
3/4" = 1'-0"



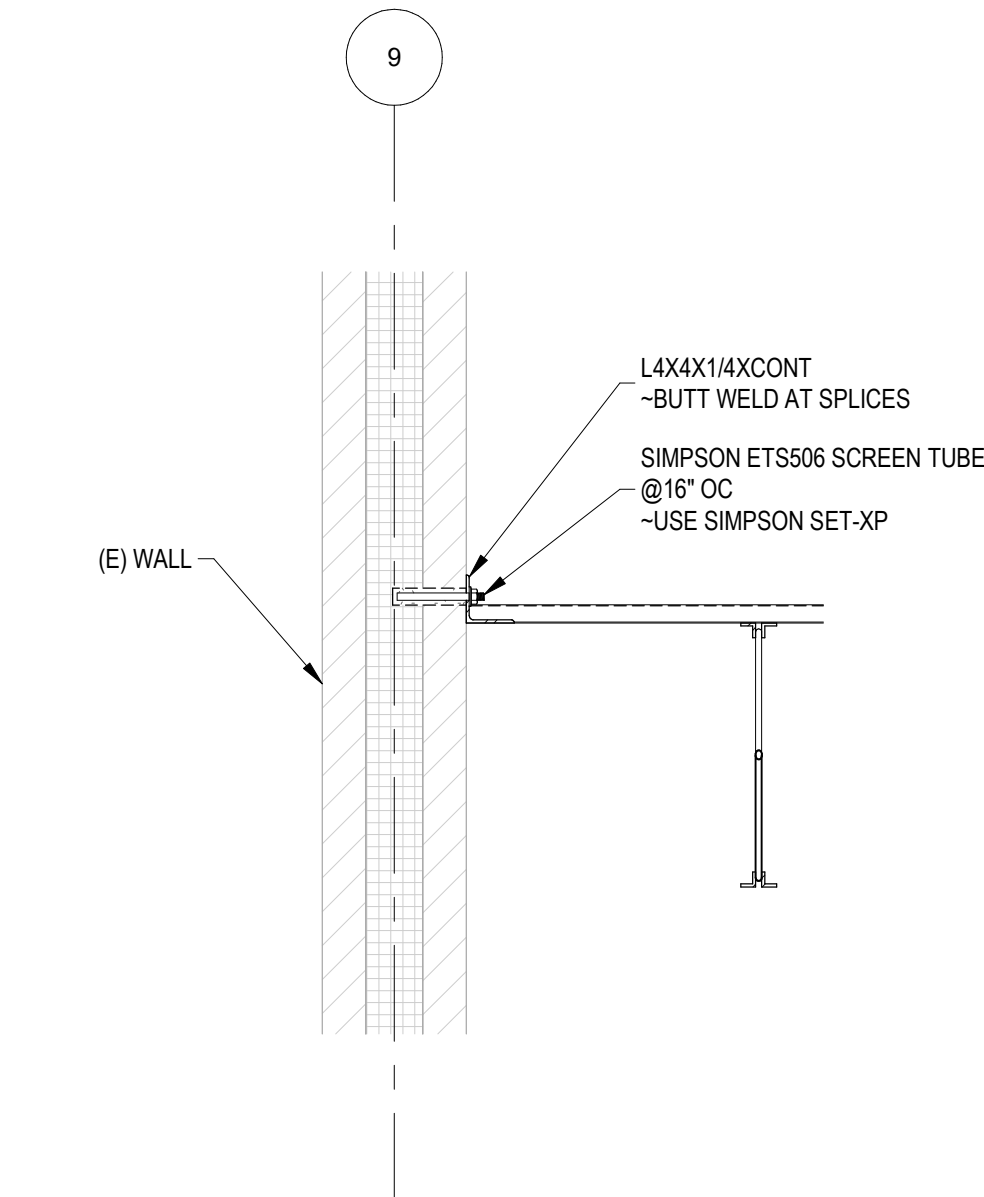
11 DRAG ANGLE AT JOISTS
3/4" = 1'-0"



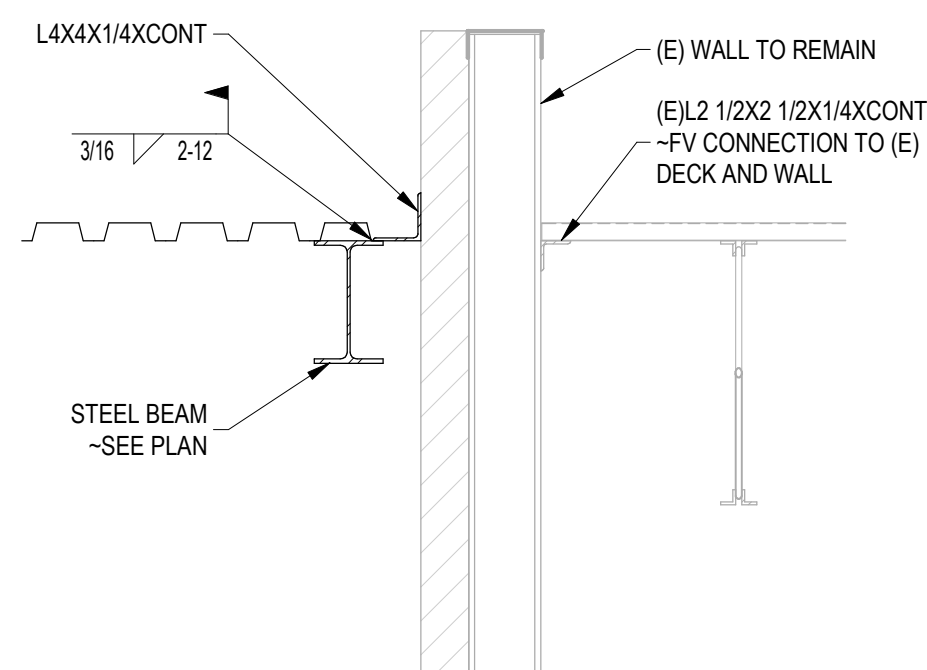
12 DECK SUPPORT AT DIAGONAL EDGE
3/4" = 1'-0"



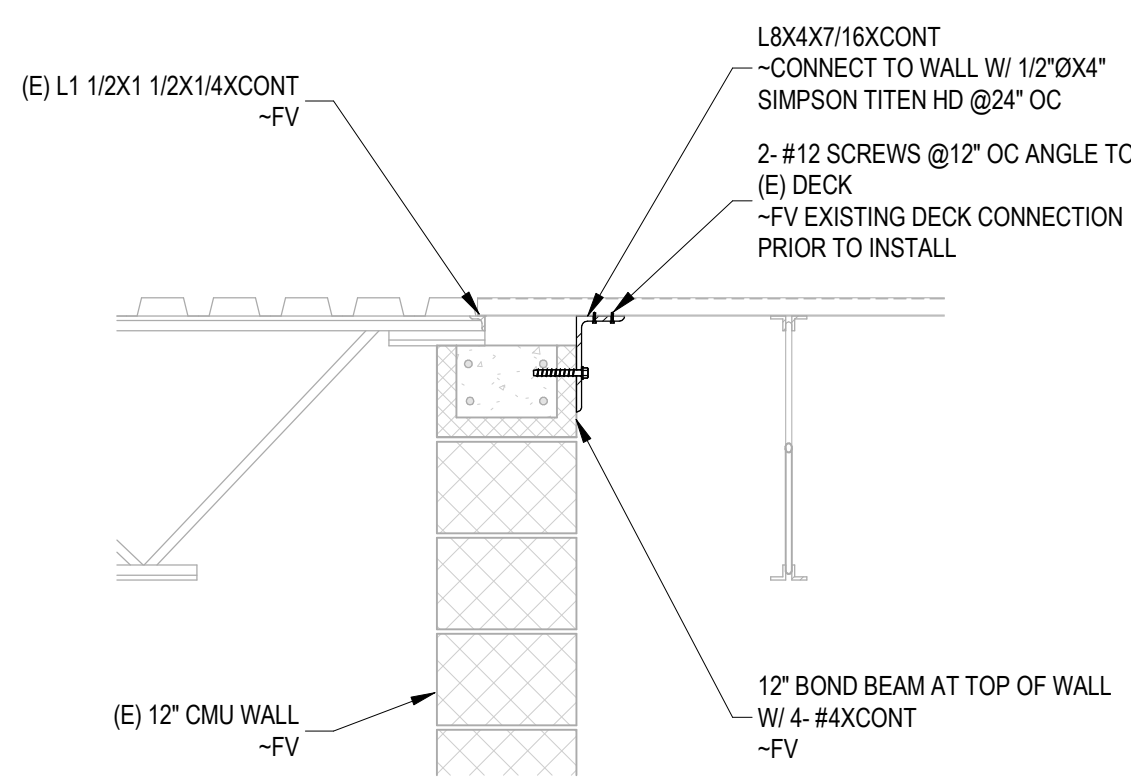
5 JOIST FRAMING AT EXISTING GIRDER
3/4" = 1'-0"



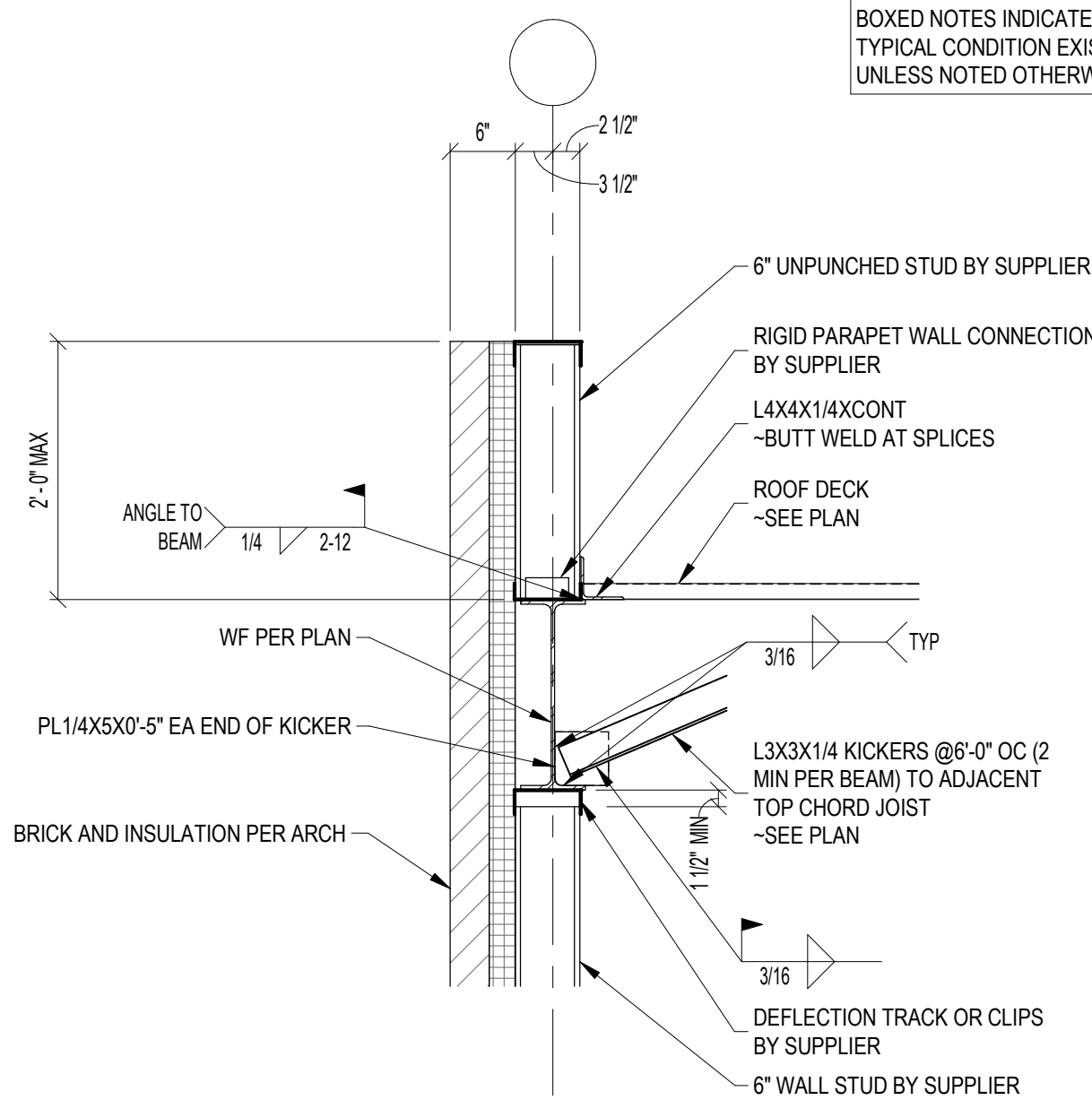
6 ANGLE CONNECTION AT GRID 9 WALL
3/4" = 1'-0"



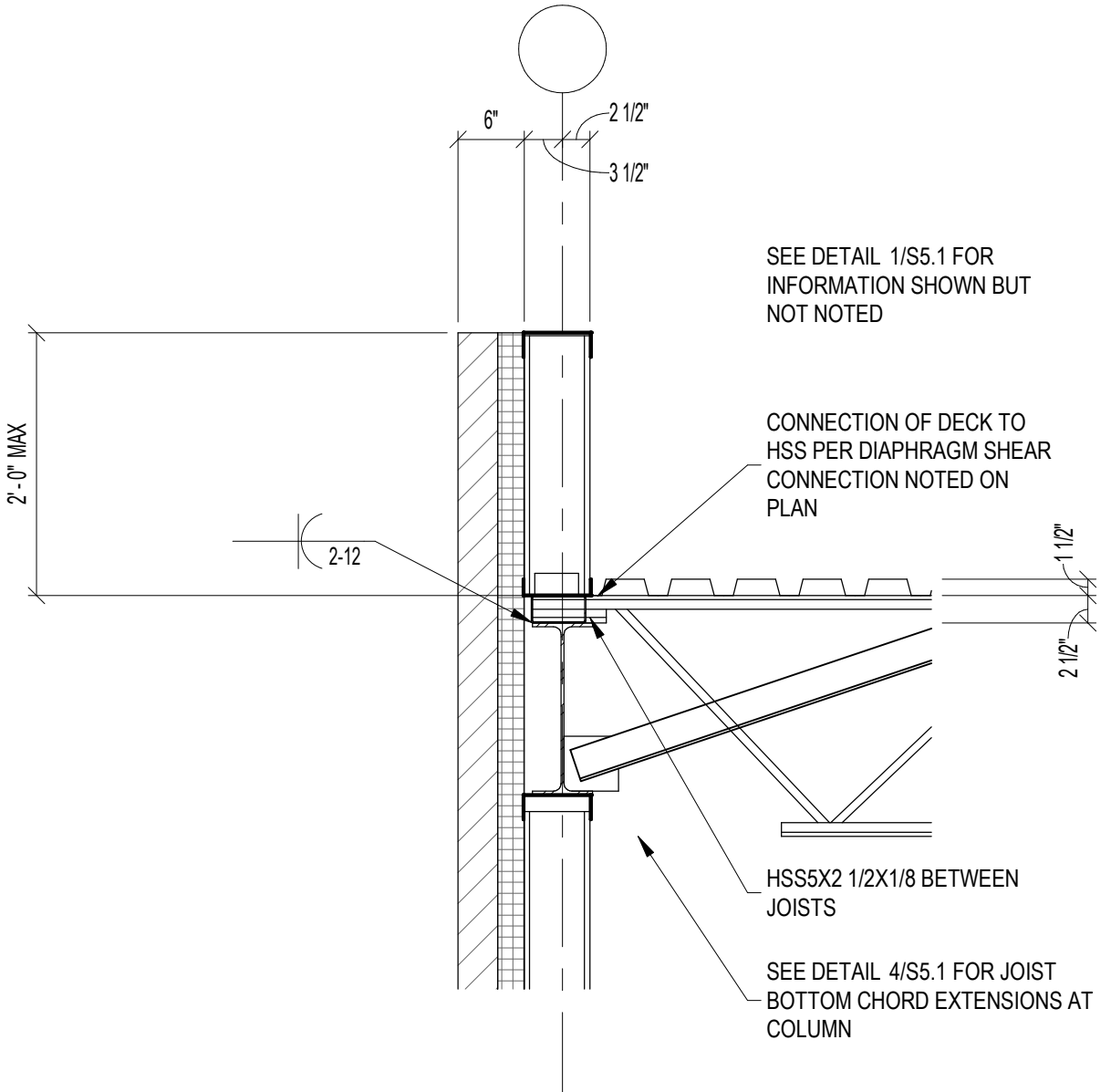
7 SOUTH FRAMING AT (E) WALL
3/4" = 1'-0"



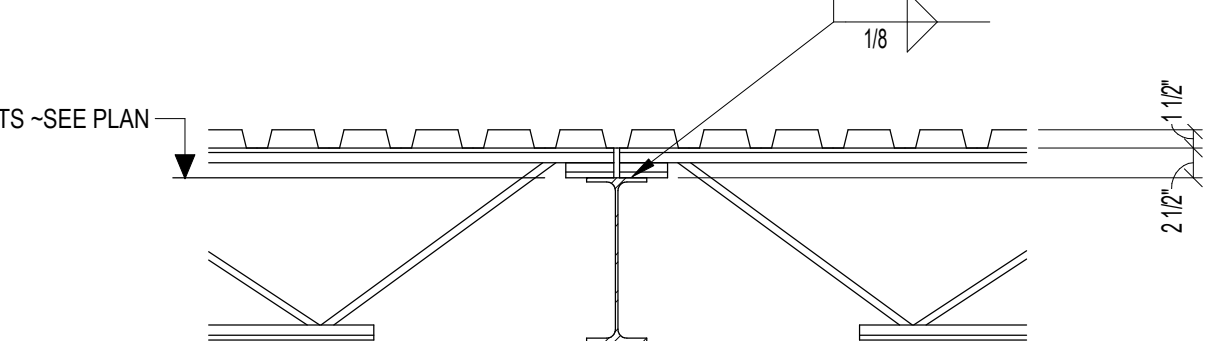
8 ANGLE CONNECTION AT (E) WALL
3/4" = 1'-0"



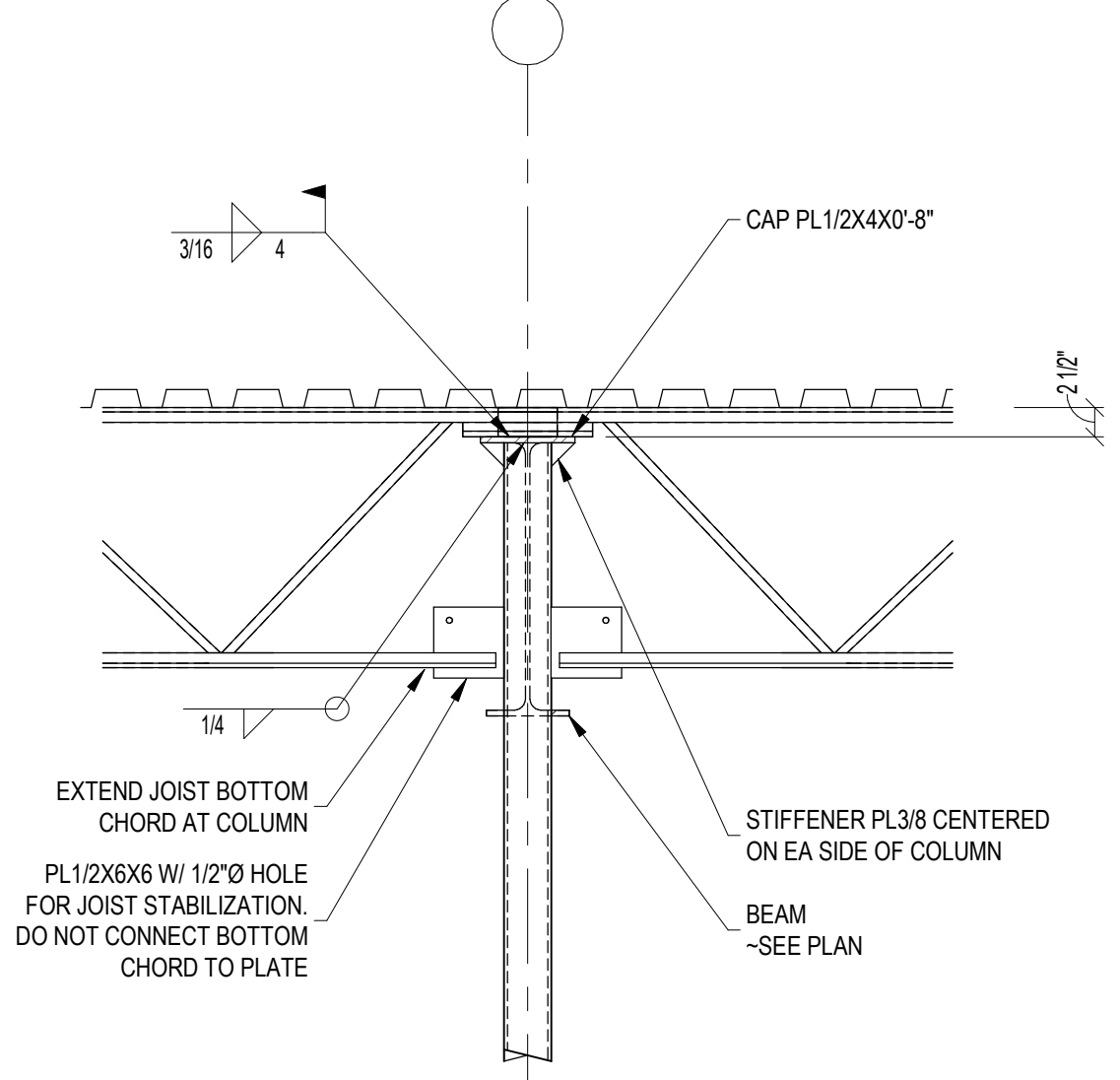
1 ROOF BEAM AT DECK BEARING
3/4" = 1'-0"



2 ROOF BEAM AT JOIST BEARING
3/4" = 1'-0"

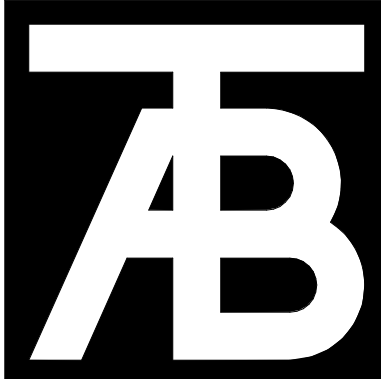


3 BEAM AT JOIST BEARING
3/4" = 1'-0"



4 JOIST BEARING AT STEEL COLUMN
3/4" = 1'-0"

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Roof Details

Project No:
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Sheet No:
S5.1

HYDRONIC VAV AIR HANDLING UNIT SCHEDULE W/ ENERGY RECOVERY																																									
NOTES:																																									
A. HEATING COIL CAPACITY SIZED AT A MINIMUM FOR MORNING WARMUP. COIL TO TAKE HEATING CFM FROM 70 TO 90 °F.																								G. REFER TO CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.																	
B. SEE HEAT WHEEL SCHEDULE FOR INFORMATION ON INTEGRAL HEAT WHEEL.																																									
			SUPPLY FAN							RELIEF FAN							COOLING							HEATING							ELECTRICAL										
MARK	SERVICE	TYPE	MIN. OUTSIDE AIR (CFM)	CFM	MIN CFM	ESP @ SL (IN WC)	ESP @ ALT (IN WC)	RPM	BHP	HP	CFM	MIN CFM	ESP @ SL (IN WC)	ESP @ ALT (IN WC)	RPM	BHP	HP	EAT DBWB (°F)	LAT DBWB (°F)	SENSIBLE MBH	TOTAL MBH	EWT (°F)	LWT (°F)	GPM	MAX WTR PD (FT HEAD)	EAT DB (°F)	LAT DB (°F)	SENSIBLE MBH	EWT (°F)	LWT (°F)	GPM	MAX WTR PD (FT HEAD)	FILTER	VOLTAGE	PHASE	FLA	MCA	MOCPP	OPER WEIGHT (LBS)	MANUFACTURER & MODEL #	REMARKS
(E) RTU-1	CAFETERIA/ CAFTORIUM/ STORAGE	ROOFTOP W/ INTEGRAL ERV	6000	10500	5700	1.92	1.60	1750	9.39	10	10500	5700	0.90	0.75	1750	1.46	2	77.0	55.0	171	171	45	55	36	12.50	35	90	365	150	120	26	4.00	2" PLEATED	480	3	19.0	22.0	30.0	5,295	AAON RN	NOTES A.B: UPSIZING SUPPLY FAN MOTOR FROM 7.5 TO 10HP ON EXISTING RTU.

ENERGY RECOVERY WHEEL SCHEDULE (INTEGRAL TO RTU-1)							
HEAT RECOVERY WHEEL DESIGN CONDITIONS							
OUTDOOR AIR		INDOOR AIR		SUPPLY LAT			
DBWB (°F)	DBWB (°F)	DBWB (°F)	DBWB (°F)	DBWB (°F)	DBWB (°F)	DBWB (°F)	DBWB (°F)
(SUM)	(WINT)	(SUM)	(WINT)	(SUM)	(WINT)	(SUM)	(WINT)
91/55	19	80/51	49	76/53	57/49		
MARK	SERVICE						
(E) RTU-1	CAFETERIA/ CAFTORIUM/ STORAGE						

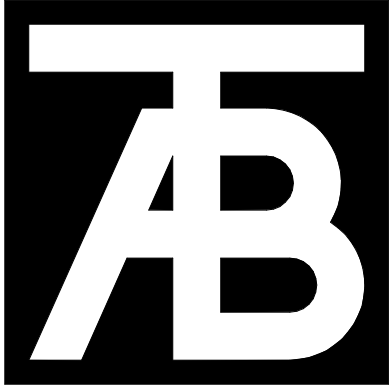
TERMINAL BOX WITH REHEAT SCHEDULE																			
NOTES:																			
A. RADIATED AND DISCHARGE SOUND LEVELS SHALL NOT EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER ARI STANDARD 885-98.																			
B. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.5" CW.																			
C. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5 FT. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS.																			
MARK	SERVICE	INLET DIA. (IN.)	COOLING CFM	HEATING CFM	MIN. INLET S.P. @ S.L. (IN. W.C.)	EAT DB (°F)	LAT DB (°F)	SENSIBLE MBH	HEATING COIL (HYDRONIC)				MAX. WATER		MANUFACTURER & MODEL #		CONTROL TYPE	ACCESSORIES	REMARKS
						(°F)	(°F)	(°F)	EWT (°F)	LWT (°F)	GPM	P.D. (FT.)	P.D. (IN. WC)						
VAV-01	CAFETORIUM	14	2000	700	1.0	55	80	43	140	120	4.8	3.00	0.40	TITUS DESV	DDC	THERMOSTAT AND CO2 SENSOR	-	-	-
VAV-02	CAFETORIUM/ STAGE	16	3000	1000	1.0	55	80	64	140	120	6.7	3.00	0.40	TITUS DESV	DDC	THERMOSTAT AND CO2 SENSOR	-	-	-
VAV-03	CAFETERIA	24X16	4600	1400	1.0	55	85	119	140	115	10.0	3.00	0.40	TITUS DESV	DDC	THERMOSTAT AND CO2 SENSOR	-	-	-
VAV-04	KITCHEN	8	900	150	1.0	55	85	19	140	115	2.0	3.00	0.30	TITUS DESV	DDC	THERMOSTAT AND CO2 SENSOR	-	-	-

EXHAUST FAN SCHEDULE												
NOTES:												
A. PROVIDE DIRECT DRIVE FANS WITH FAN SPEED CONTROL.												
B. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAMEPLATE RATING.												
C. PROVIDE ROOF CURB WITH INTEGRAL DAMPER.												
MARK	SERVICE	TYPE	FAN			MOTOR			MANUFACTURER & MODEL #	ACCESSORIES	REMARKS	
			CFM	SONES	ESP @ SL (IN WC) @ ALT (IN WC)	MHP	VOLT	PHASE				
EF-1	SPED BATHROOM	CEILING	60	3.8	0.17 0.15	13 W	120	1	GREENHECK SP-80	INTEGRAL BACKDRAFT DAMPER	-	
KEF-1	TYPE II DISH HOOD	UPBLAST	1500	10	0.60 0.40	1/4	120	1	GREENHECK CUBE-141	INTEGRAL BACKDRAFT DAMPER	-	
KEF-2	TYPE II KITCHEN HOOD	UPBLAST	600	8.1	0.60 0.30	1/8	120	1	GREENHECK CUE-095-D	INTEGRAL BACKDRAFT DAMPER	-	

PLUMBING FIXTURE SCHEDULE									
MARK	TYPE	ADA	FINISH	MANUFACTURER* & MODEL #	FAUCET TRIM MFR* & MODEL #	ACCESSORIES			REMARKS
P1	FLOOR SINK	N/A	ACID RESISTANT CAST IRON	ZURN Z1902		-			-
P2	ROOF DRAIN	N/A	DURA-COATED CAST IRON	ZURN Z125	-	DECK CLAMP			-
P3	SCIENCE CLASSROOM	N/A	RESIN, RE-ARCH		CHICAGO #930-VPH	PROVIDE VACUUM BREAKER, UNDER COUNTER PROTECTION, QUARTER TURN ANGLE STOPS, SUPPLIES AND ACID WASTE TAIL PIECE. PROVIDE AND INSTALL POINT OF USE STRIEM UNDER COUNTER ACID NEUTRALIZATION TANK, MODEL LB2.			INSTALL PER MANUFACTURERS REQUIREMENTS
P4	DOWNSPOUT NOZZLE	N/A	RE-ARCH	ZURN Z199	-	FLOOR MOUNT, 36"x36" DROP FRONT MOP RECEPTOR			-
P5	MOP BASIN	N/A	TERRAZO	FLORESTONE #02 36X36	T & S BRASS #B-0665-B5TP	EXISTING URINAL TO REMAIN. REPLACE FLUSH VALVE ONLY			-
P6	URINAL FLUSH VALVE ONLY	EXISTING	CHROME		SLOAN G2 8111-1.6 3250400	EXISTING WATER CLOSET TO REMAIN. REPLACE FLUSH VALVE ONLY			-
P7	WATER CLOSET FLUSH VALVE ONLY	EXISTING	CHROME		SLOAN G2 8111-1.6 3250400	EXISTING SINK BASIN AND DRAIN TO REMAIN. REPLACE FAUCET ONLY.			-
P8	LAVATORY FAUCET ONLY	EXISTING	CHROME		DELTA 2529LF-HDF				-

GRILLE, REGISTER, DIFFUSER & LOUVER SCHEDULE						
MARK (E)	USE	PATTERN	FINISH	MANUFACTURER* & MODEL#	ACCESSORIES	REMARKS
	VARIES	-	-	-	-	EXISTING DIFFUSER TO REMAIN
A	LAY-IN CEILING	4-WAY	WHITE	TITUS TDC-AA	-	-
B	SIDEWALL RETURN	STATIONARY	RE-ARCH	TITUS 350RL	-	-

MULTI ZONE VENTILATION SCHEDULE											
VENTILATION EQUATION VARIABLE DEFINITIONS: BREATHING ZONE OUTDOOR AIRFLOW, Vbz ZONE FLOOR AREA, Az ZONE POPULATION, Pz AREA OUTDOOR AIR RATE, Ra PEOPLE OUTDOOR AIR RATE, Rp ZONE AIR DISTRIBUTION EFFECTIVENESS, Ez ZONE OUTDOOR AIRFLOW, Voz SYSTEM OUTDOOR AIR INTAKE FLOW RATE, Vot ZONE PRIMARY OUTDOOR AIR FRACTION, Zp ZONE PRIMARY AIRFLOW, Vpz SYSTEM VENTILATION EFFICIENCY, SYSTEM Ev ZONE VENTILATION EFFICIENCY, ZONE Ev						VENTILATION EQUATIONS: Vbz = Rp * Pz + Ra * Az (EQUATION 4-1) Voz = Vbz / Ez (EQUATION 4-2) Zp = Voz / Vpz (EQUATION 4-5) Ev = (Table 403.3.1.1.2.3.2) Vou = Zp (Vbz), ASSUMING D=1 (EQUATION 4-6) Vot = Vou / (SYSTEM Ev) (EQUATION 4-8)					
VAV-01 SUMMARY											
SPACE NAME	SPACE TYPE	Az [SQ.FT.]	Rp [CFM/ PERSON]	Ra [CMF/SQ.FT.]	PEOPLE DENSITY [#/1000SQ.F...	Pz [PEOPLE]	Vbz [CFM]	Ez	Voz [CFM]	Vpz [CFM]	ZONE Zp
CAFETORIUM	EDUCATION - MULTITUSE ASSEMBLY	1400	7.5	0.06	100	124	1014	1	1014	2000	51%
VAV-02 SUMMARY											
SPACE NAME	SPACE TYPE	Az [SQ.FT.]	Rp [CFM/ PERSON]	Ra [CMF/SQ.FT.]	PEOPLE DENSITY [#/1000SQ.F...	Pz [PEOPLE]	Vbz [CFM]	Ez	Voz [CFM]	Vpz [CFM]	ZONE Zp
CAFETORIUM AND STAGE	EDUCATION - MULTITUSE...	2470	7.5	0.06	100	186	1544	1	1544	3000	51%
VAV-03 SUMMARY											
SPACE NAME	SPACE TYPE	Az [SQ.FT.]	Rp [CFM/ PERSON]	Ra [CMF/SQ.FT.]	PEOPLE DENSITY [#/1000SQ.F...	Pz [PEOPLE]	Vbz [CFM]	Ez	Voz [CFM]	Vpz [CFM]	ZONE Zp
CAFETERIA	F&B - CAFETERIA...	3400	7.5	0.18	100	220	2262	1	2262	3600	63%
VAV-04 SUMMARY											
SPACE NAME	SPACE TYPE	Az [SQ.FT.]	Rp [CFM/ PERSON]	Ra [CMF/SQ.FT.]	PEOPLE DENSITY...	Pz [PEOPLE]	Vbz [CFM]	Ez	Voz [CFM]	Vpz [CFM]	ZONE Zp
KITCHEN AND SERVING	F&B - KITCHEN (COOKING)	700	-	-	-	-	-	0.8	0	600	0%
TOTAL SYSTEM SUMMARY											
SYSTEM Ev											52%
SYSTEM Vot											6000
GENERAL NOTES:											
A:		-									
B:		-									
Comments											



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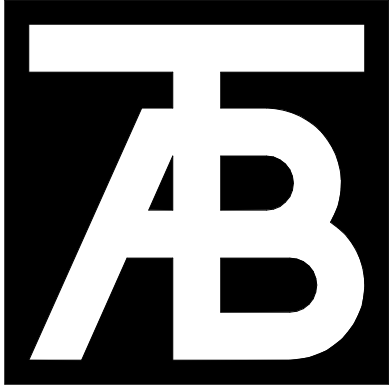
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Sheet Title:
MECHANICAL
SCHEDULES

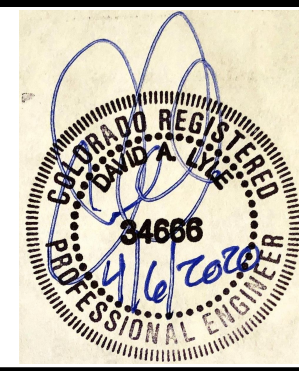
Project No:
10183.00

Sheet No:
M0.1





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Sheet Title:
**MECHANICAL
SITE PLAN**

Project No:
10183.00

Sheet No:
M1.0

PROPOSED SNOWMELT ADDITION
(2200 SF)

PROVIDE NEW MANIFOLD IN BOX
WITH MEANS TO ACCESS FOR
BALANCING AND SERVICE. FIELD
COORDINATE EXACT LOCATION.

EXISTING SNOWMELT AREA
(3500 SF)

REPAIR ANY DAMAGED EXISTING
SNOWMELT TUBING WITH SPLICES
LOCATED IN ACCESSIBLE
LANDSCAPE BO, TYP.

NEW 1-1/2" SMSR

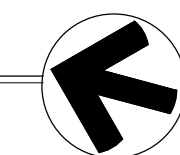
(E) SB-1 FRONT SNOWMELT BOILER
LAARS PNCH1250NACC2CJN
1250 MBH INPUT, 1000 MBH OUTPUT
955 MBH OUTPUT @ ALTITUDE

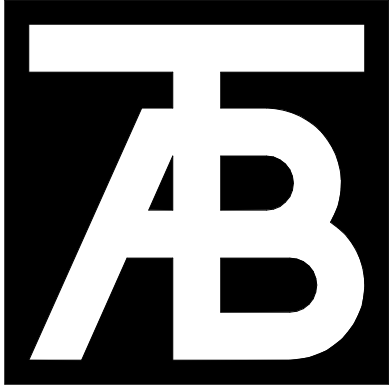
(E) PUMP
TO BE CONFIRMED BY CONTRACTOR

EXISTING AREA SERVED: (272 BTU/SF)
3500 SF - SIDEWALK
PROPOSED NEW SNOWMELT AREA:
ADD 2200 SF - SIDEWALK/ASPHALT
NEW TOTAL = 5700 SF (167 BTU/SF)

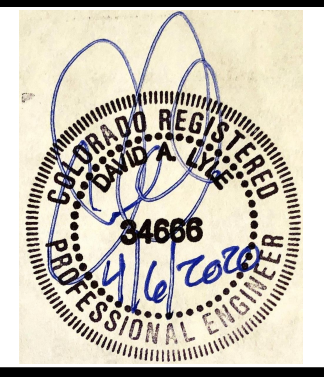
MECHANICAL SITE PLAN

SCALE: 1" = 20'-0"





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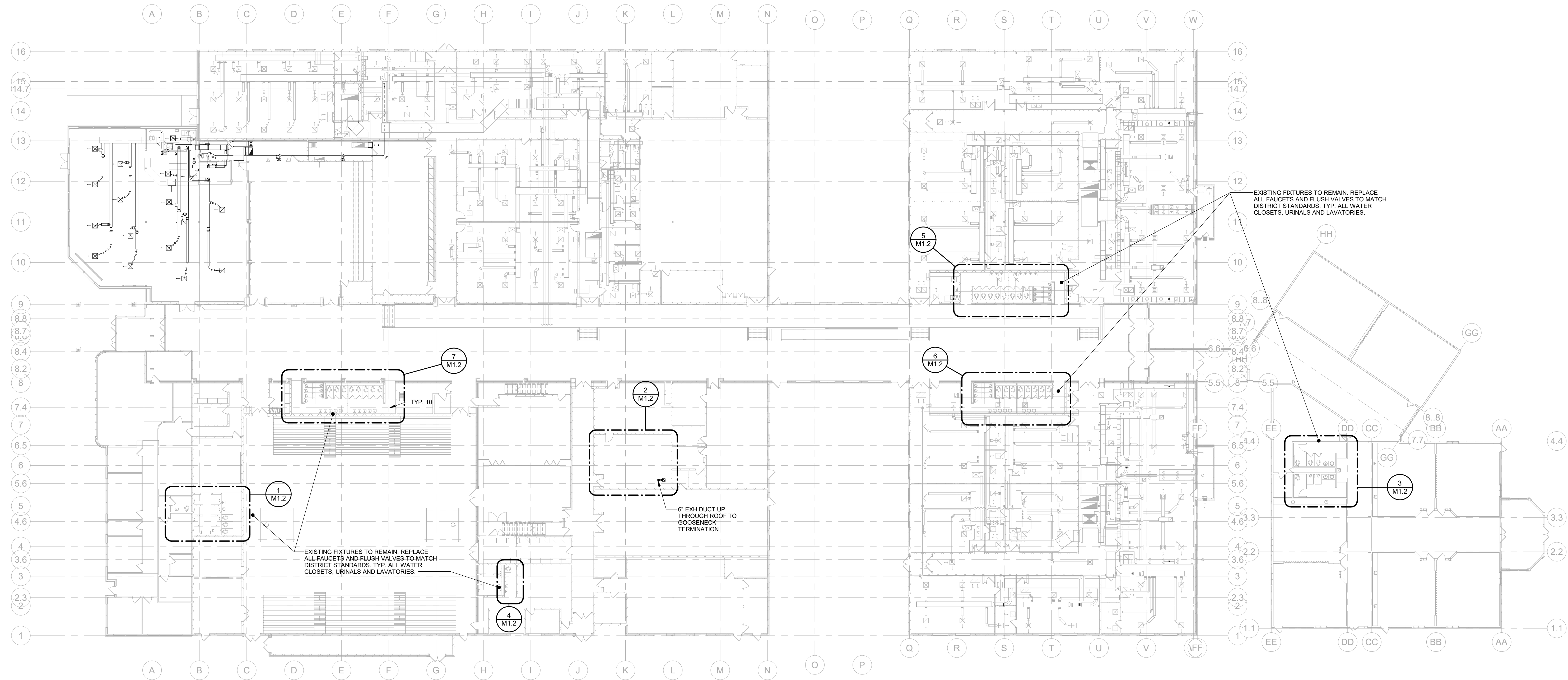
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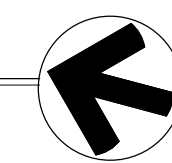
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**MECHANICAL
OVERALL
PLAN**

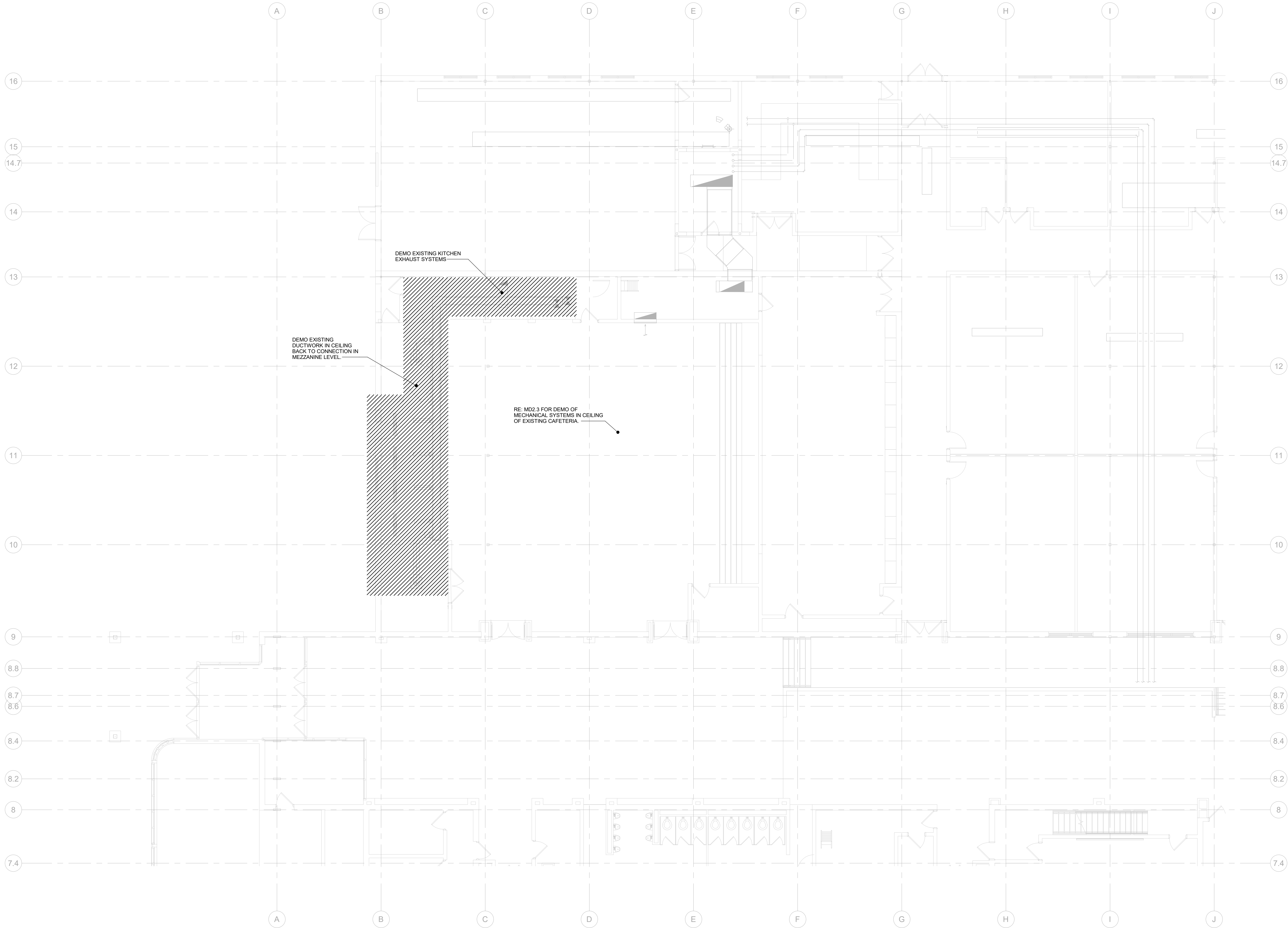
Project No:
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Sheet No:
M1.1

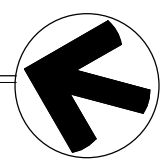


MECHANICAL OVERALL PLAN
SCALE: 1" = 20'-0"



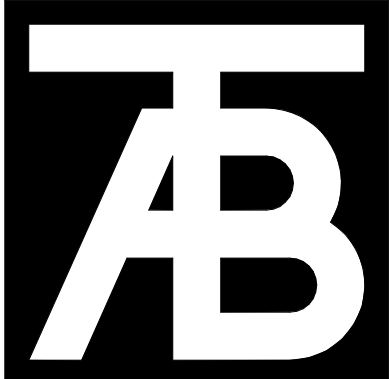


1 FIRST LEVEL AREA A DEMO MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



DEMOLITION NOTES:

1. ADDITIONAL STORM, HYDRONIC, DOMESTIC, WASTE AND VENT PIPING MAY BE ROUTED IN SPACE THAT IS NOT REPRESENTED, BUT IS TO REMAIN. OTHER SYSTEMS MAY EXIST WITHIN THE SPACE THAT ARE NOT REPRESENTED ON THESE DRAWINGS. MODIFICATIONS TO THESE SYSTEMS ARE NOT ANTICIPATED.
2. FIELD VERIFY ALL COMPONENTS PRIOR TO DEMOLITION. THE INFORMATION ON THIS SHEET WAS OBTAINED, IN PART, FROM HISTORIC DESIGN DRAWINGS. ONLY PORTIONS OF THE SYSTEMS WERE ACCESSIBLE FOR VISUAL CONFIRMATION DURING DESIGN PROCESS.
3. PROVIDE PRELIMINARY TESTING OF EXISTING HYDRONIC SYSTEMS. MEASURE CURRENT FLUID FLOW RATE THROUGH ALL EXISTING COILS, RADIANT, AND SNOWMELT ZONES FOR THE CURRENTLY INSTALLED SYSTEMS. SUBMIT REPORT OF MEASURED VALUES TO ENGINEER FOR REVIEW AND CONFIRMATION OF SYSTEM DESIGN ASSUMPTIONS PRIOR TO DEMOLITION.
4. PROVIDE PRELIMINARY TESTING OF EXISTING HVAC DUCTWORK SYSTEMS. MEASURE CURRENT AIR FLOW RATES AT ALL EXISTING SUPPLY, RETURN, AND EXHAUST REGISTERS. MEASURE TOTAL AIR FLOWS AT MAIN DUCT BRANCHES AND ALL FAN SYSTEMS. SUBMIT REPORT OF MEASURED VALUES TO ENGINEER FOR REVIEW AND CONFIRMATION OF SYSTEM DESIGN ASSUMPTIONS PRIOR TO DEMOLITION.
5. (E) WASTE SYSTEM SERVING SPACE IS LOCATED IN THE CEILING OF THE SPACE BELOW.
6. REMOVE ALL MECHANICAL ITEMS INDICATED.
7. TEMPORARILY SEAL OR CAP PIPING TO BE RE-USED FOR LATER CONNECTION.
8. SEAL ALL OPEN DUCTS DURING CONSTRUCTION TO MITIGATE DUST AND DEBRIS FROM SYSTEM. CAP DUCTWORK IN LOCATIONS THAT ARE NOT BEING RECONNECTED.
9. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OF INFORMATION REPRESENTED IN THE DOCUMENTS VERSUS WHAT IS FOUND IN THE FIELD.
10. COORDINATE PATCHING AND REPAIRS OF WALLS, CEILINGS AND FLOORS WITH ARCHITECT.
11. PATCH STRUCTURAL OPENINGS IN FLOORS, WALLS AND ROOFS THAT WERE PREVIOUSLY OCCUPIED BY SYSTEMS AND EQUIPMENT DEMOLISHED UNDER THIS CONTRACT IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS.



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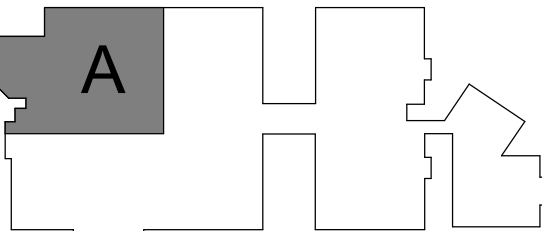
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No	Description	Date

Issue Dates:
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Sheet Title:
FIRST LEVEL
AREA A
DEMO MECH
PLAN

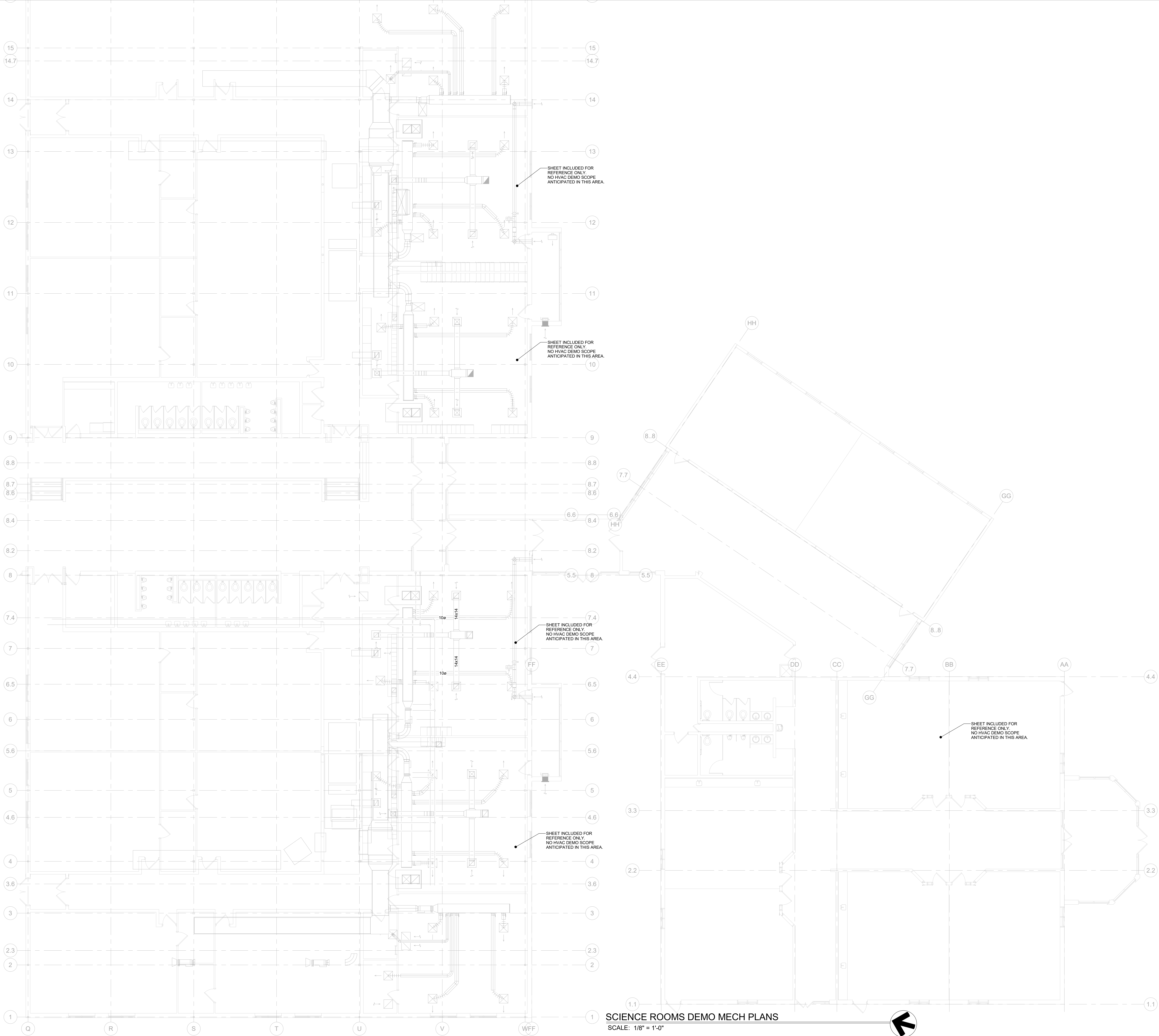
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Sheet No:
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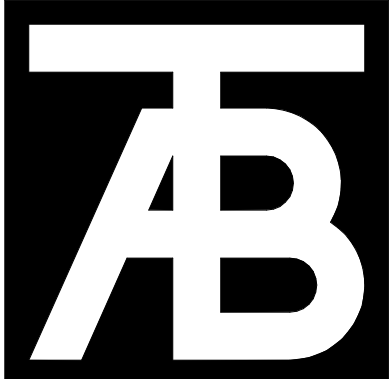
KEY PLAN





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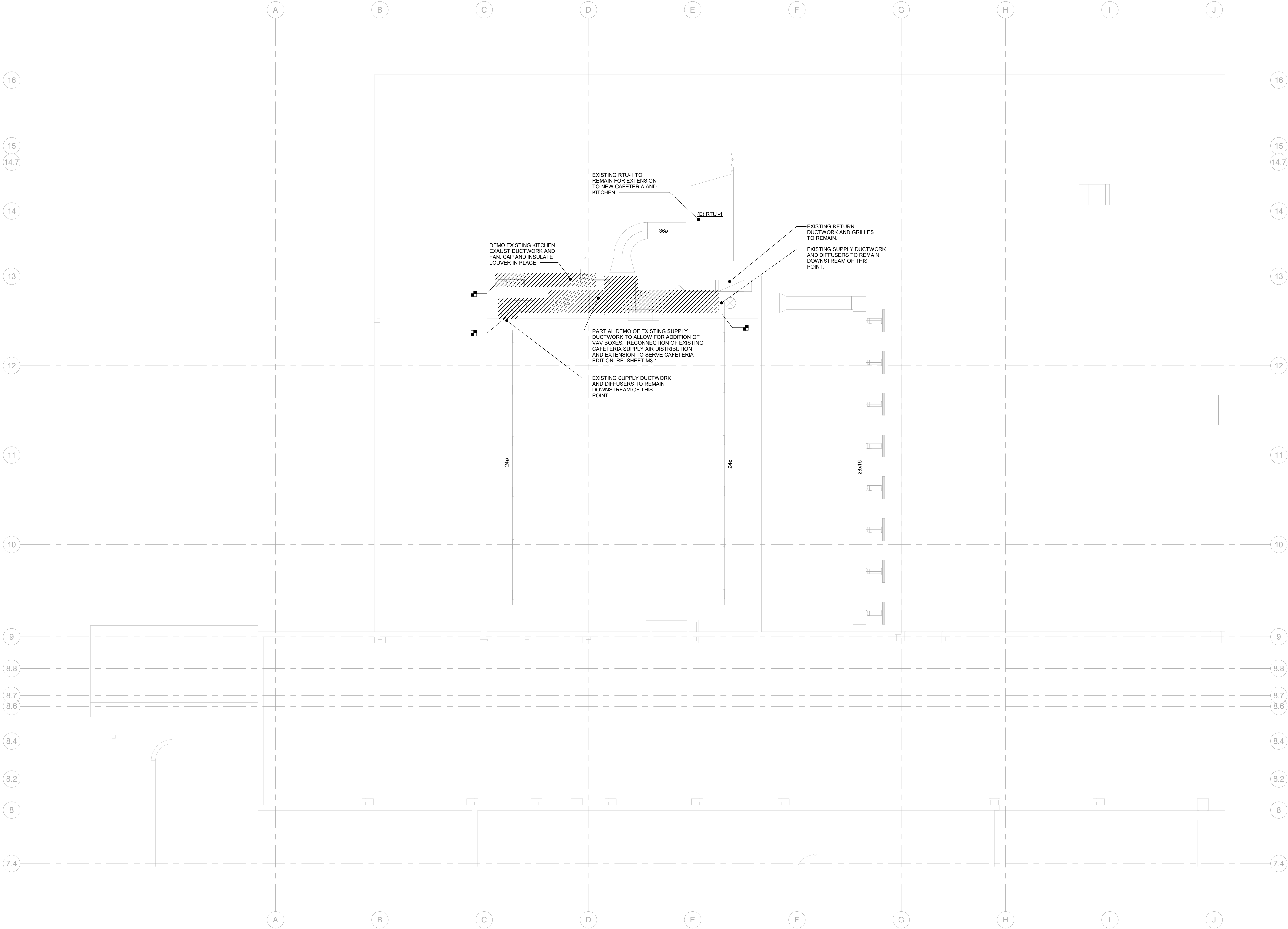
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Sheet Title:
**SCIENCE
ROOMS
DEMO MECH
PLANS**

Project No:
10183.00

Sheet No:
MD2.2

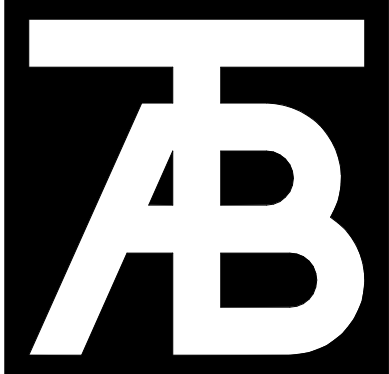




ROOF AREA A DEMO MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

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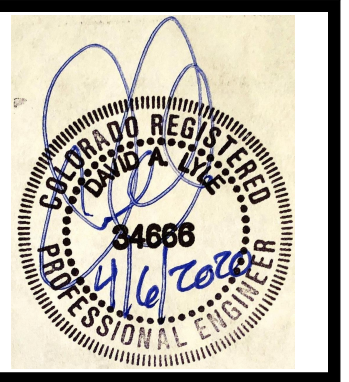
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Sheet Title:
ROOF AREA A
DEMO MECH
PLAN

Project No:
10183.00

Sheet No:
MD2.3





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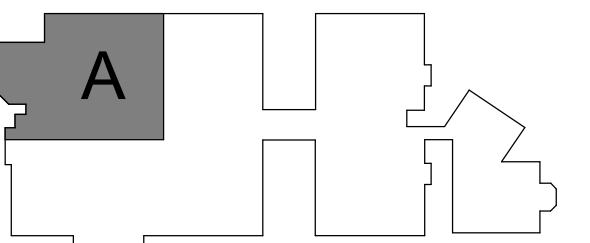
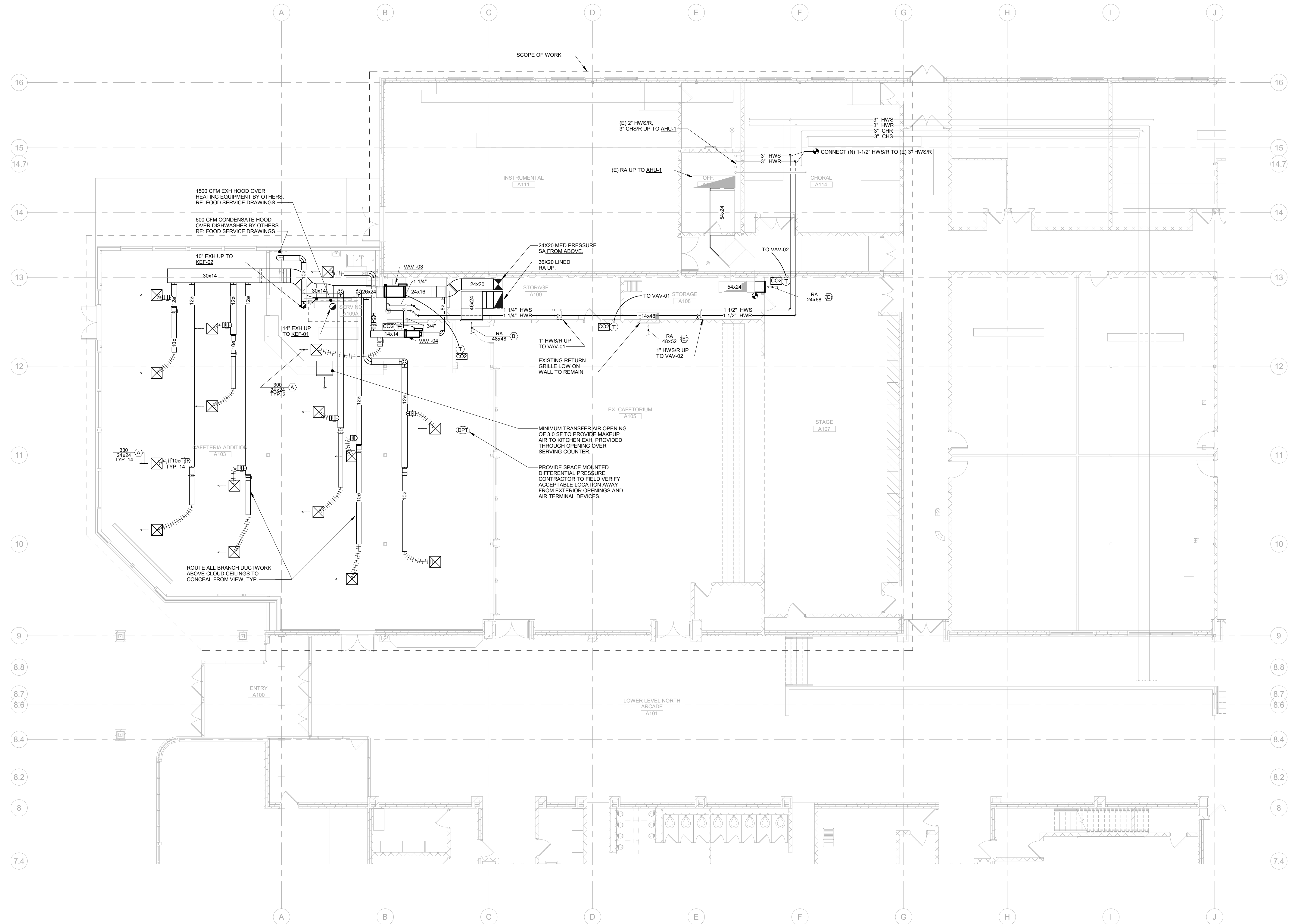
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Sheet Title:
FIRST LEVEL
AREA A MECH
PLAN

Project No:
10183.00

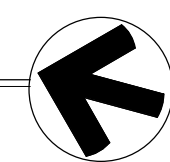
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KEY PLAN



1 FIRST LEVEL AREA A MECHANICAL PLAN



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Issue Dates:
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Sheet Title:
SCIENCE
ROOMS
MECH PLANS

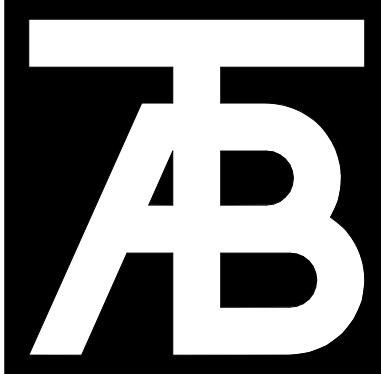
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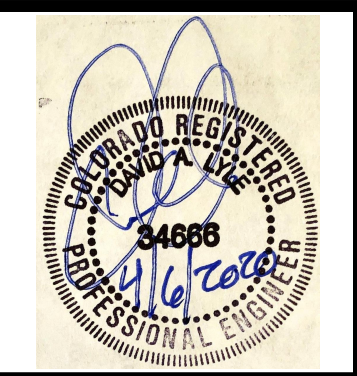


NOTES:

1. RE: M3.0 SERIES FOR MECHANICAL DIAGRAM.
2. CEILING COORDINATION OF ALL MEP SYSTEMS (LIGHTING, DUCTWORK, DIFFUSERS, ELECTRICAL, FIRE PROTECTION, ETC.) MUST BE COMPLETED BY THE CONTRACTOR PRIOR TO THE START OF ANY INSTALLATIONS.
3. DO NOT ROUTE DUCTWORK OVER ELECTRICAL ROOMS OR ELECTRICAL PANELS. MAINTAIN N.E.C. CLEARANCES. COORDINATE ROUTINGS WITH DIV. 16 CONTRACTOR.
4. PROVIDE FLEXIBLE DUCT AND PIPE CONNECTIONS TO ALL MOTORIZED EQUIPMENT.
5. ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE IN THE CEILING SPACE. UTILIZE JOIST SPACE WHEN POSSIBLE. ESPECIALLY WHERE CROSSING OTHER DUCTS, PIPES, AND ELECTRICAL.
6. MAINTAIN MIN. 3 FT. BETWEEN ENVIRONMENTAL EXH TERMINATIONS AND OPENINGS INTO BUILDING.



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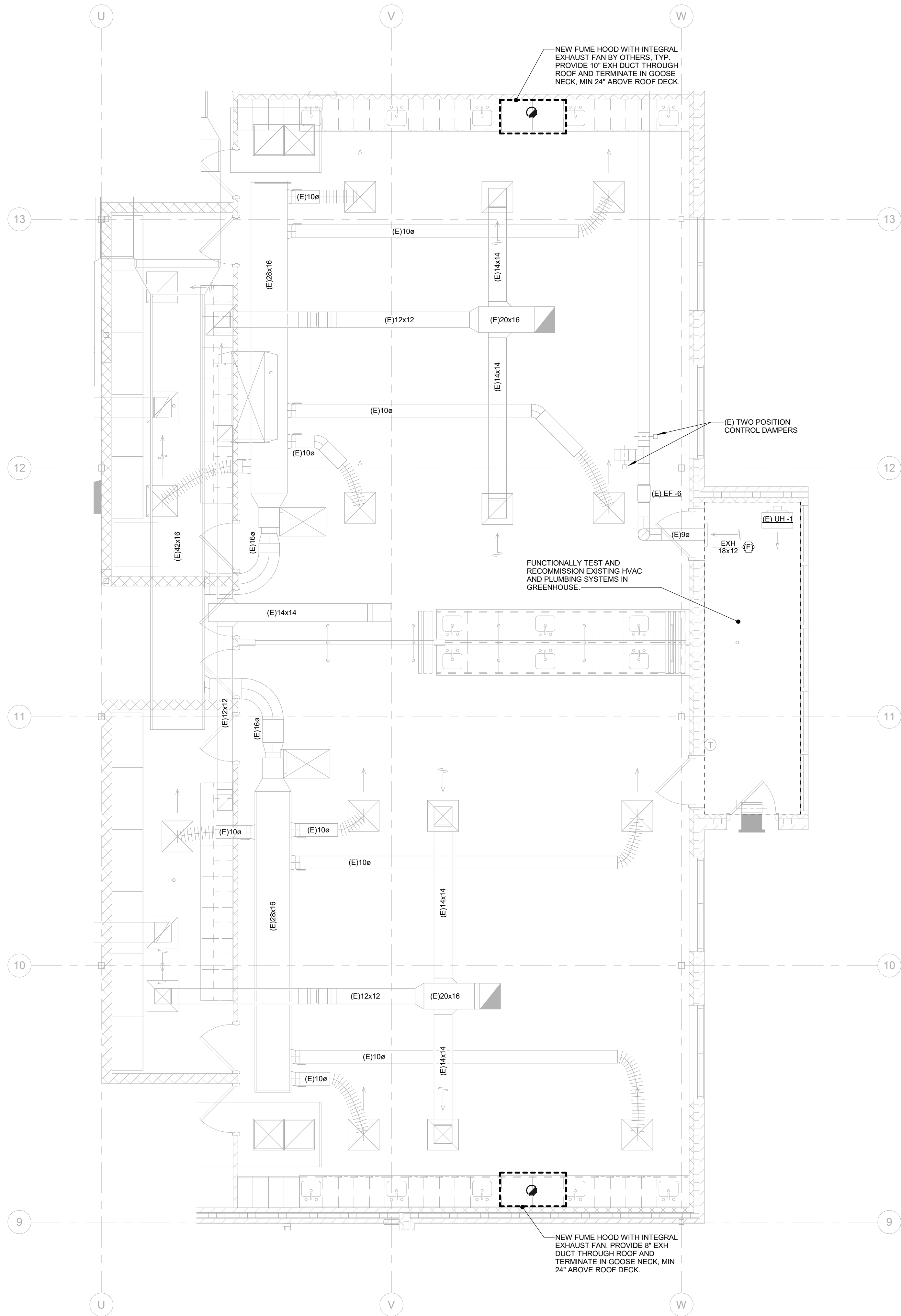
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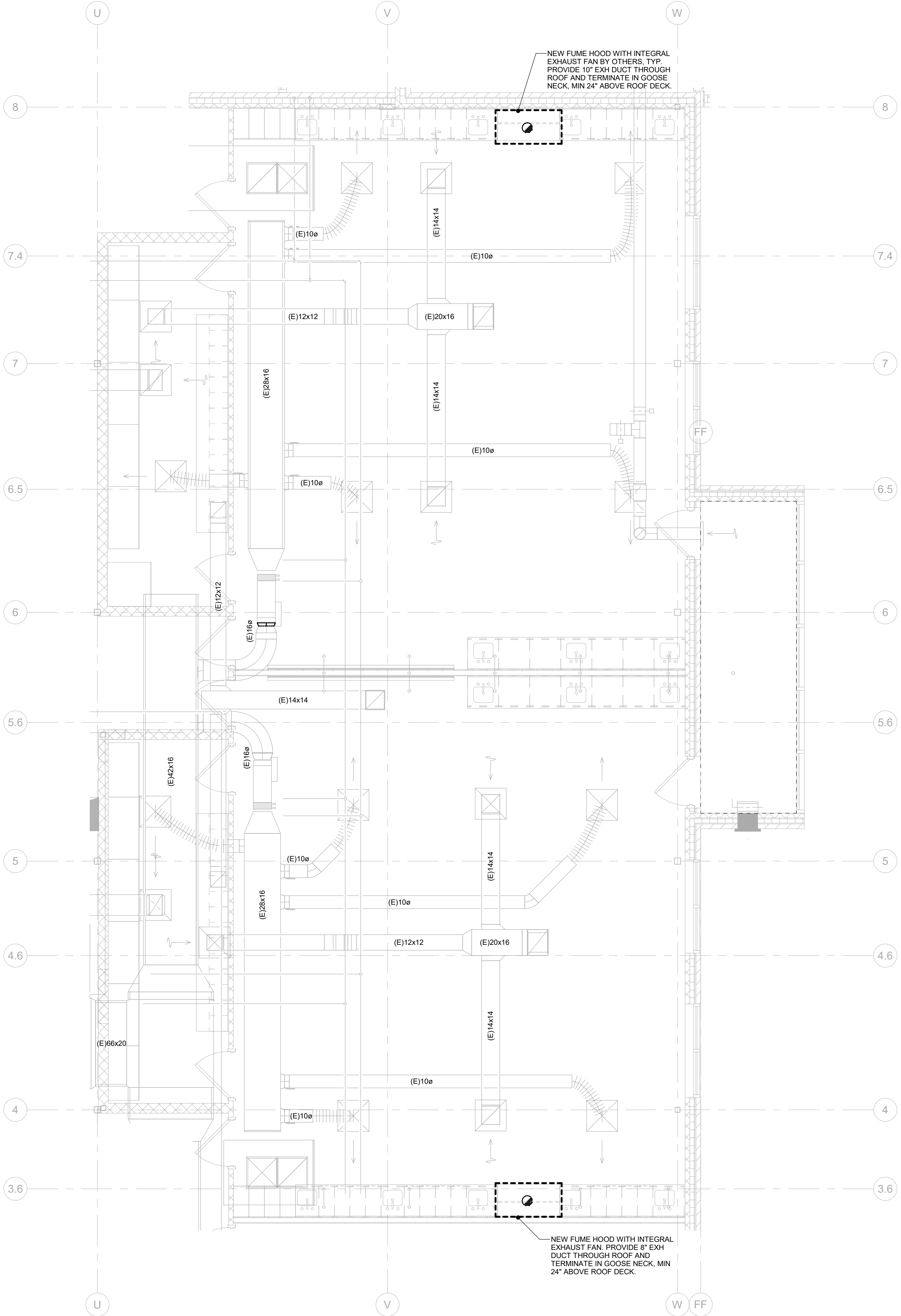
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**SCIENCE
ROOMS
ENLARGED
MECH PLANS**

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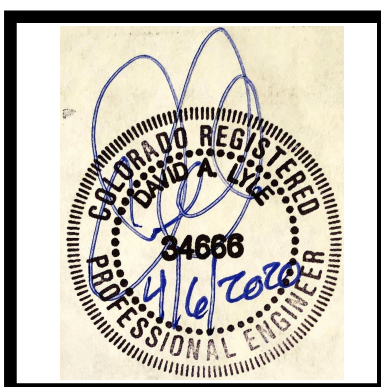
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7TH GRADE SCIENCE ROOMS MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



8TH GRADE SCIENCE ROOMS MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



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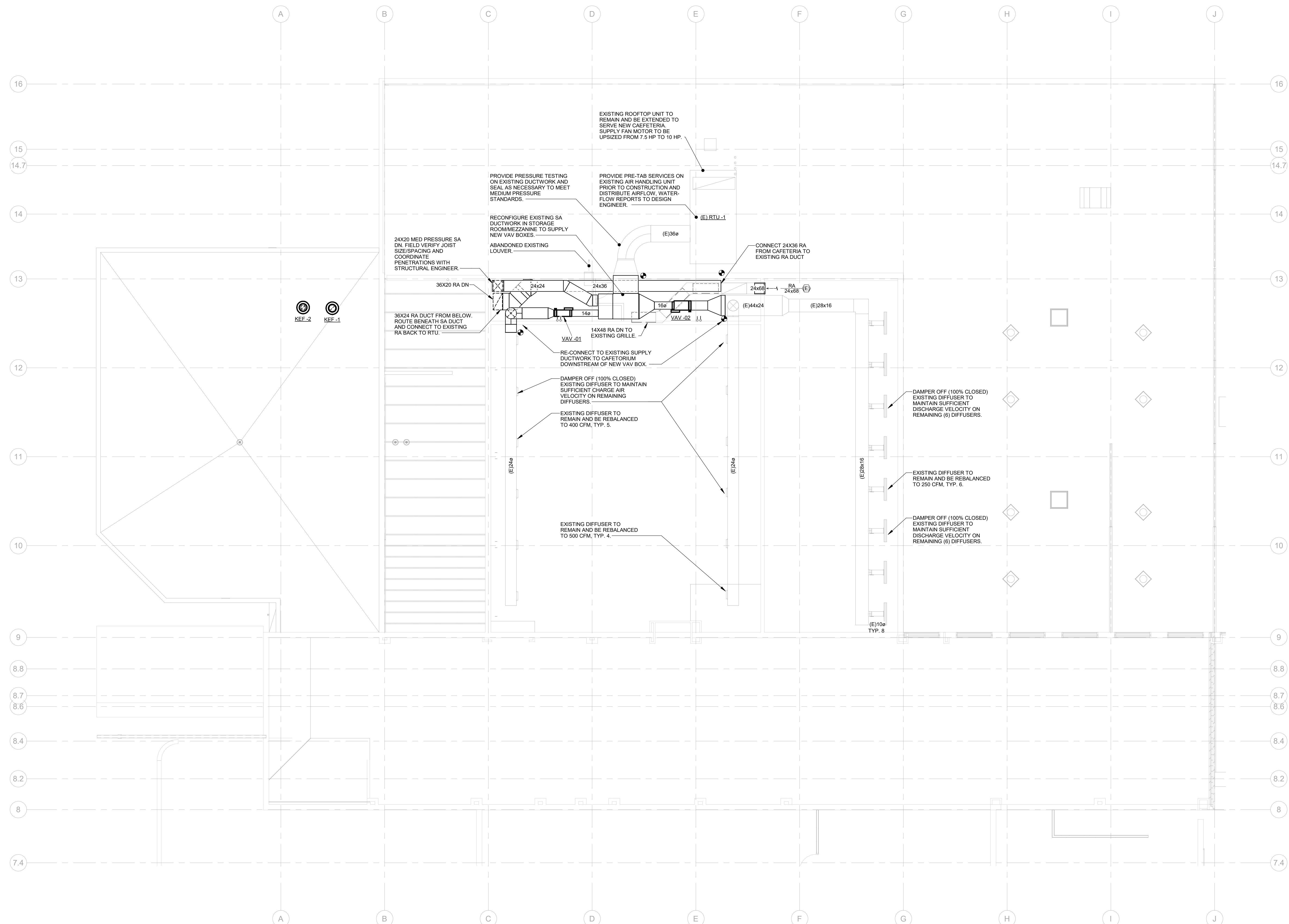
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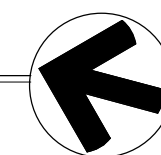
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ROOF AREA A
MECHANICAL
PLAN

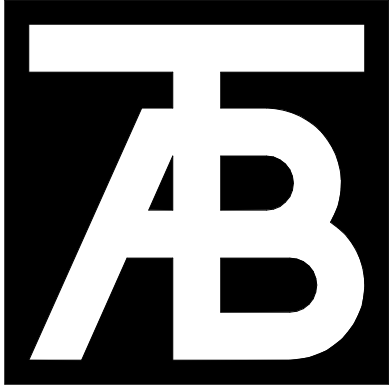
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ROOF AREA A MECHANICAL PLAN





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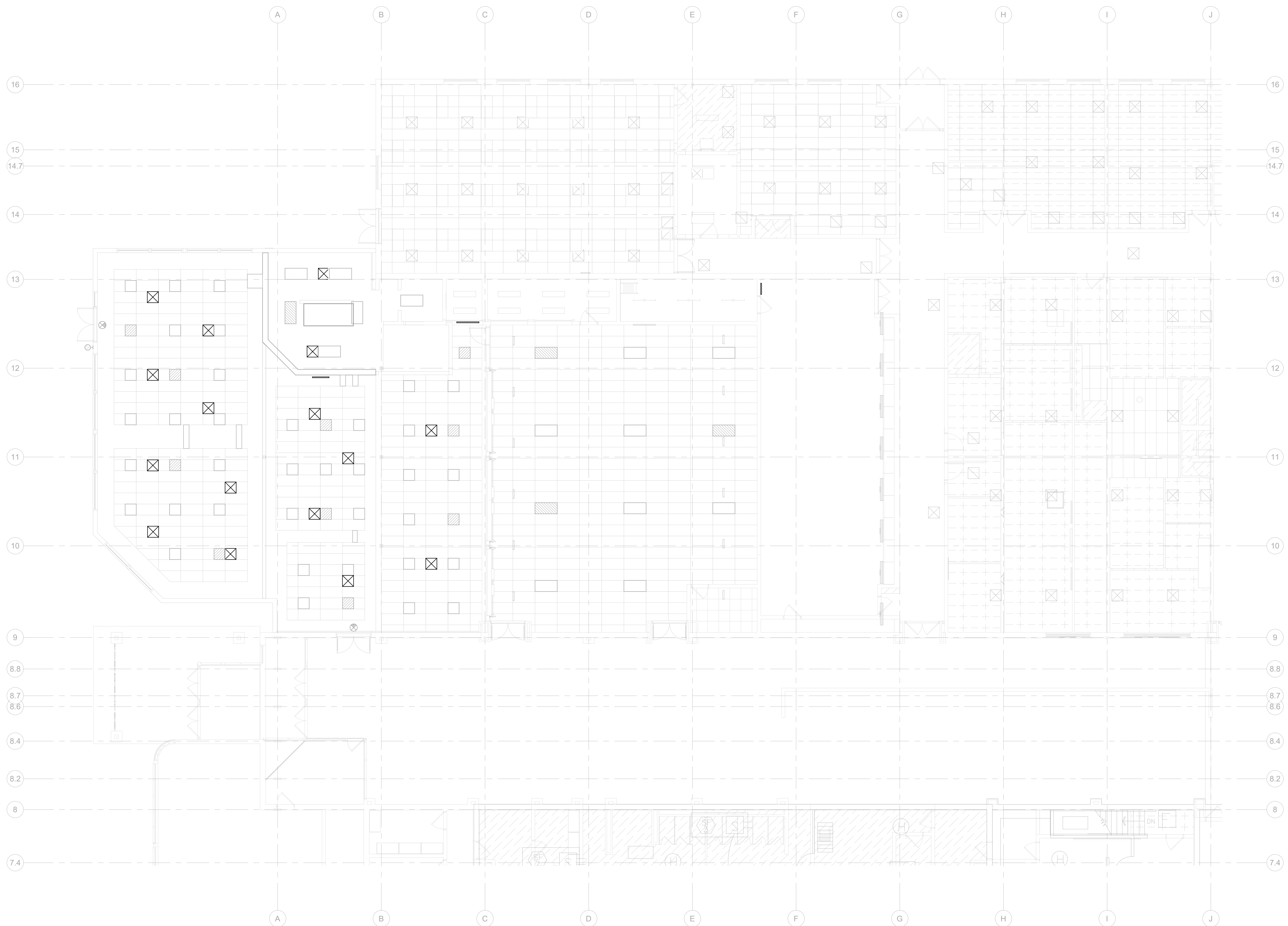
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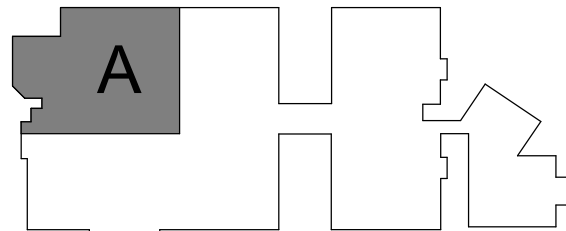
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**FIRST LEVEL
AREA A
MECHANICAL
COORDINATION
CEILING PLAN**

Project No:
10183.00

Sheet No:
MC2.1

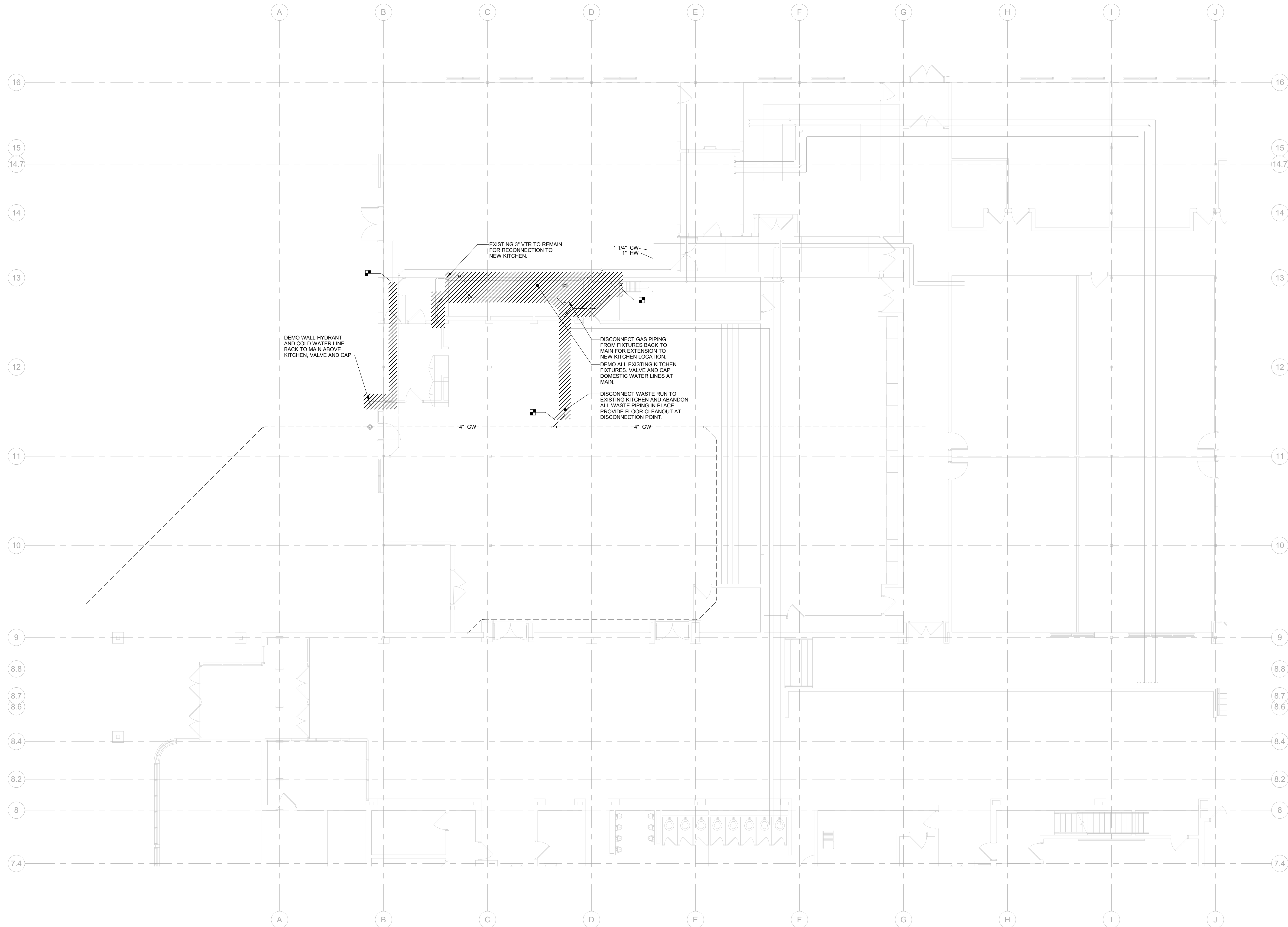


1 FIRST LEVEL MECHANICAL COORDINATION CEILING PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

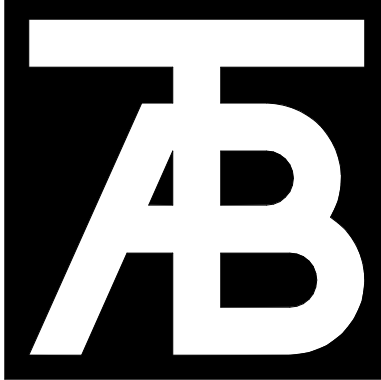




FIRST LEVEL AREA A DEMO PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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1. ADDITIONAL STORM, HYDRONIC, DOMESTIC, WASTE AND VENT PIPING MAY BE ROUTED IN SPACE THAT IS NOT REPRESENTED, BUT IS TO REMAIN. OTHER SYSTEMS MAY EXIST WITHIN THE SPACE THAT ARE NOT REPRESENTED ON THESE DRAWINGS. MODIFICATIONS TO THESE SYSTEMS ARE NOT ANTICIPATED.
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3. PROVIDE PRELIMINARY TESTING OF EXISTING HYDRONIC SYSTEMS. MEASURE CURRENT FLUID FLOW RATE THROUGH ALL EXISTING COILS, RADIANT, AND SNOWMELT ZONES FOR THE CURRENTLY INSTALLED SYSTEMS. SUBMIT REPORT OF MEASURED VALUES TO ENGINEER FOR REVIEW AND CONFIRMATION OF SYSTEM DESIGN ASSUMPTIONS PRIOR TO DEMOLITION.
4. PROVIDE PRELIMINARY TESTING OF EXISTING HVAC DUCTWORK SYSTEMS. MEASURE CURRENT AIR FLOW RATES AT ALL EXISTING SUPPLY, RETURN, AND EXHAUST REGISTERS. MEASURE TOTAL AIR FLOWS AT MAIN DUCT BRANCHES AND ALL FAN SYSTEMS. SUBMIT REPORT OF MEASURED VALUES TO ENGINEER FOR REVIEW AND CONFIRMATION OF SYSTEM DESIGN ASSUMPTIONS PRIOR TO DEMOLITION.
5. (E) WASTE SYSTEM SERVING SPACE IS LOCATED IN THE CEILING OF THE SPACE BELOW.
6. REMOVE ALL MECHANICAL ITEMS INDICATED.
7. TEMPORARILY SEAL OR CAP PIPING TO BE RE-USED FOR LATER CONNECTION.
8. SEAL ALL OPEN DUCTS DURING CONSTRUCTION TO MITIGATE DUST AND DEBRIS FROM SYSTEM. CAP DUCTWORK IN LOCATIONS THAT ARE NOT BEING RECONNECTED.
9. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OF INFORMATION REPRESENTED IN THE DOCUMENTS VERSUS WHAT IS FOUND IN THE FIELD.
10. COORDINATE PATCHING AND REPAIRS OF WALLS, CEILINGS AND FLOORS WITH ARCHITECT.
11. PATCH STRUCTURAL OPENINGS IN FLOORS, WALLS AND ROOFS THAT WERE PREVIOUSLY OCCUPIED BY SYSTEMS AND EQUIPMENT DEMOLISHED UNDER THIS CONTRACT IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS.



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Steamboat Springs Middle School
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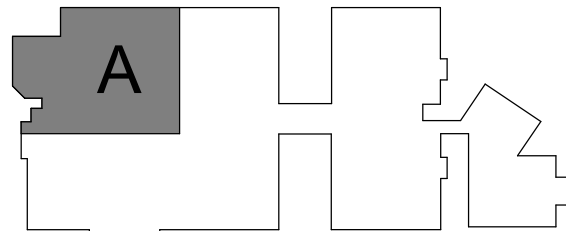
Revisions:		
No	Description	Date

Issue Dates:
04.06.2020
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Sheet Title:
**FIRST LEVEL
AREA A
DEMO
PLUMBING
PLAN**

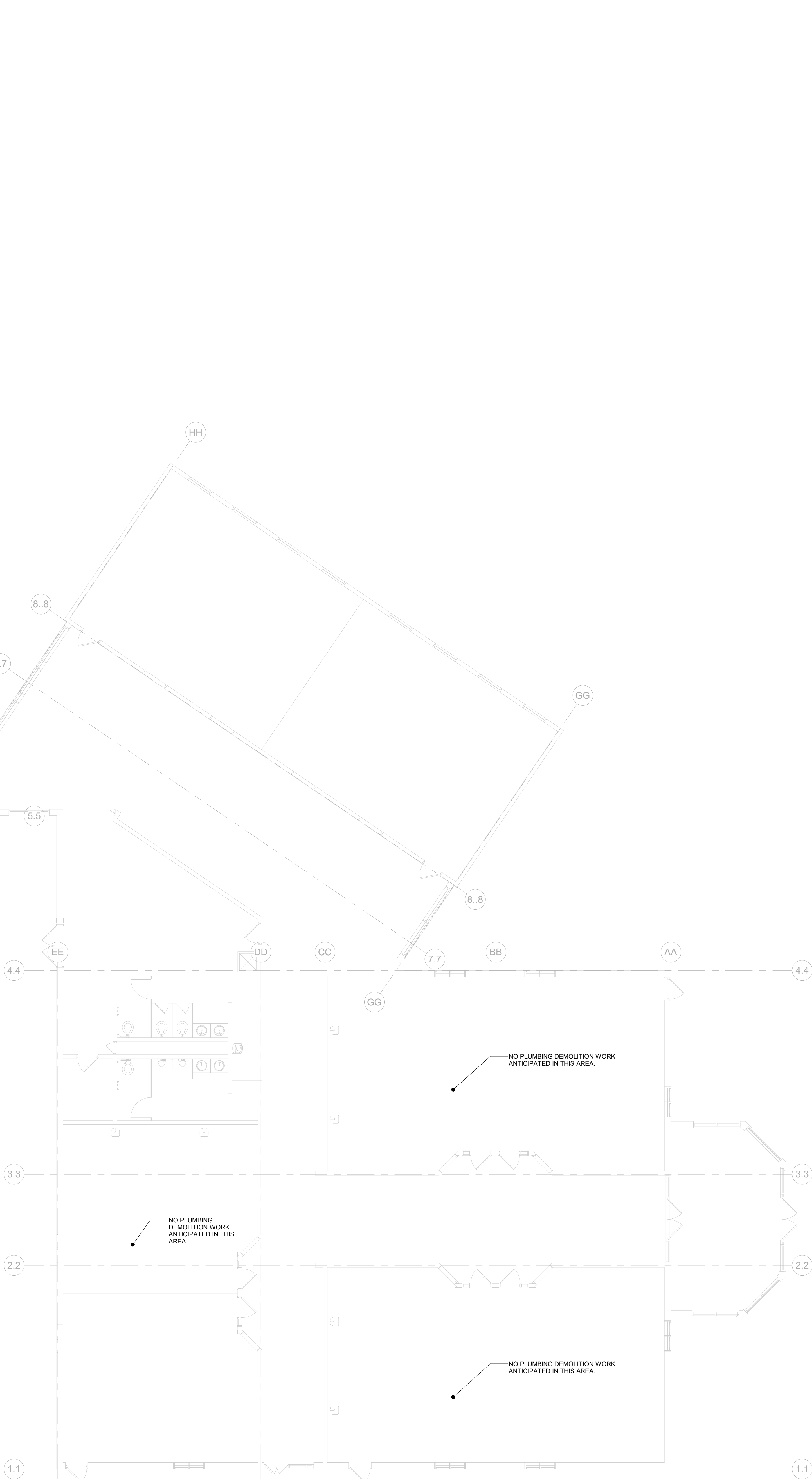
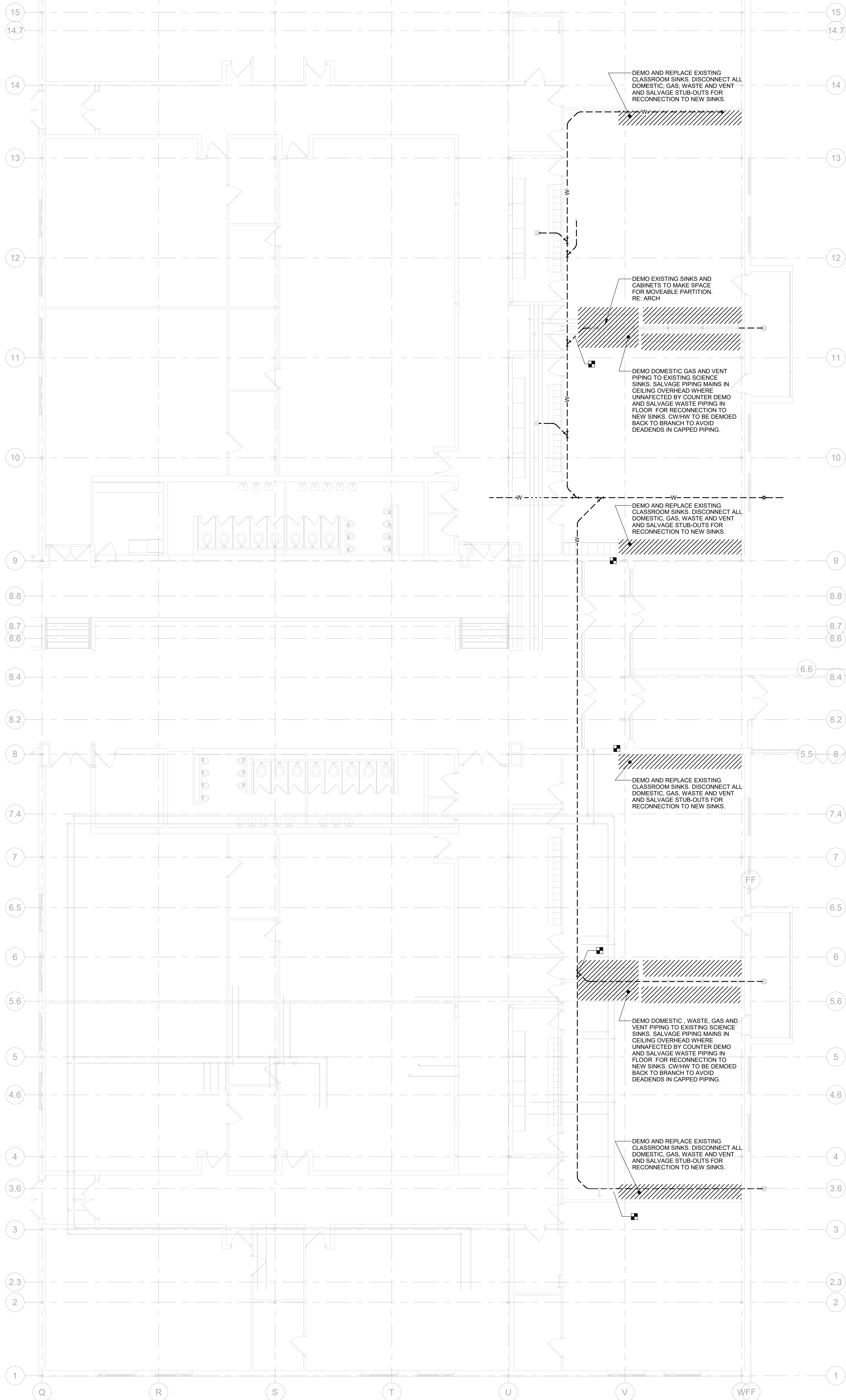
Project No:
10183.00

Sheet No:
MPD2.1



KEY PLAN





SCIENCE ROOMS DEMO PLUMBING PLAN
SCALE: 1/8" = 1'-0"

- DEMOLITION NOTES:**
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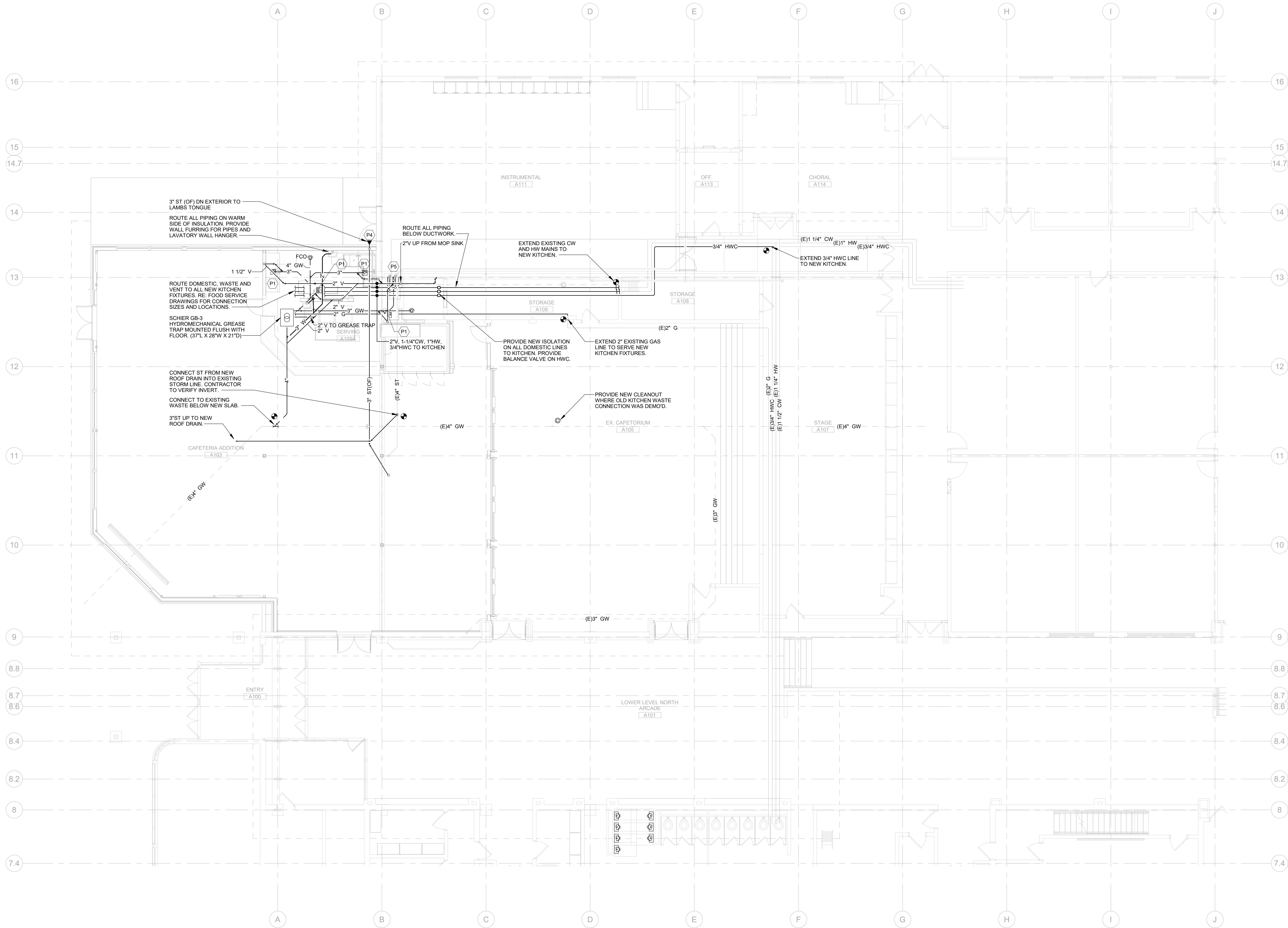
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SCIENCE
ROOMS
DEMO
PLUMBING
PLAN

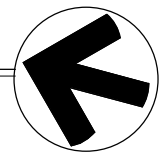
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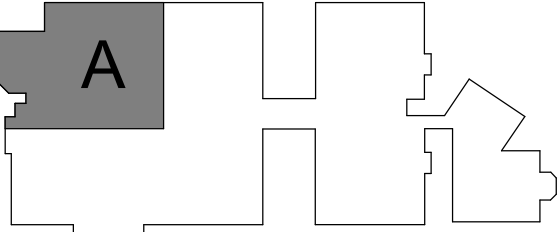


FIRST LEVEL AREA A PLUMBING PLAN
SCALE: 1/8" = 1'-0"

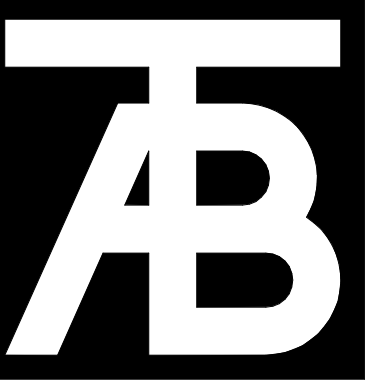
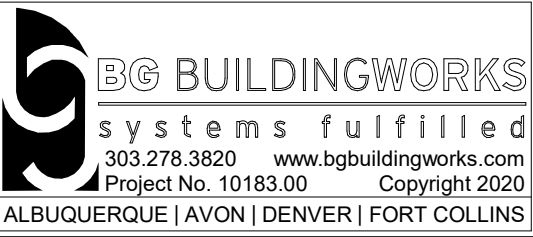


NOTES:

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7. INSTALL THERMOSTATIC MIXING VALVES, ASSE 1070 LISTED, AT EACH PUBLIC HANDWASHING LAVATORY/SINK. SIZE TO MATCH HW PIPE SIZE.
8. ROOF OVERFLOW DRAINAGE STRATEGY TO BE DETERMINED OR VIA ARCHITECTURAL SCUPPERS U.N.O.
9. TERMINATE PLUMBING VENTS NOT LESS THAN 12' ABOVE ROOF.
10. DO NOT ROUTE PIPING OVER ELECTRICAL ROOMS OR ELECTRICAL PANELS. MAINTAIN N.E.C. CLEARANCES. COORDINATE ROUTINGS WITH DIV. 16 CONTRACTOR.
11. CONTRACTOR TO MAINTAIN 8'-6" CLEAR HEAD HEIGHT IN GARAGE AND INFORM THE ENGINEERS AND ARCHITECT OF ANY AREAS THAT MAY NOT MEET 8'-6" PRIOR TO INSTALLATION. MINIMUM 6'-2" CLEAR HEAD HEIGHT MUST BE MAINTAINED IN ACCESSIBLE VEHICLE AREAS.
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13. ROUTE DOMESTIC HOT WATER REGRIC TO WITHIN 10 FEET OF ALL HOT WATER FIXTURES. CONNECT WITHIN 2 FEET OF PUBLIC LAVATORY FAUCETS.
14. VERIFY ALL EQUIPMENT ACCESS PANELS WITH MANUFACTURER AND ARCHITECT.
15. PROTECT PIPING ROUTED ALONG COLUMNS, WALLS, ETC. FROM DAMAGE AS NECESSARY WITH CAGES. COORDINATE WITH ARCHITECT.
16. PEX PIPING SHALL NOT BE ALLOWED TO PENETRATE FIRE BARRIERS WHERE FIRE CAULKING IS REQUIRED.
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KEY PLAN



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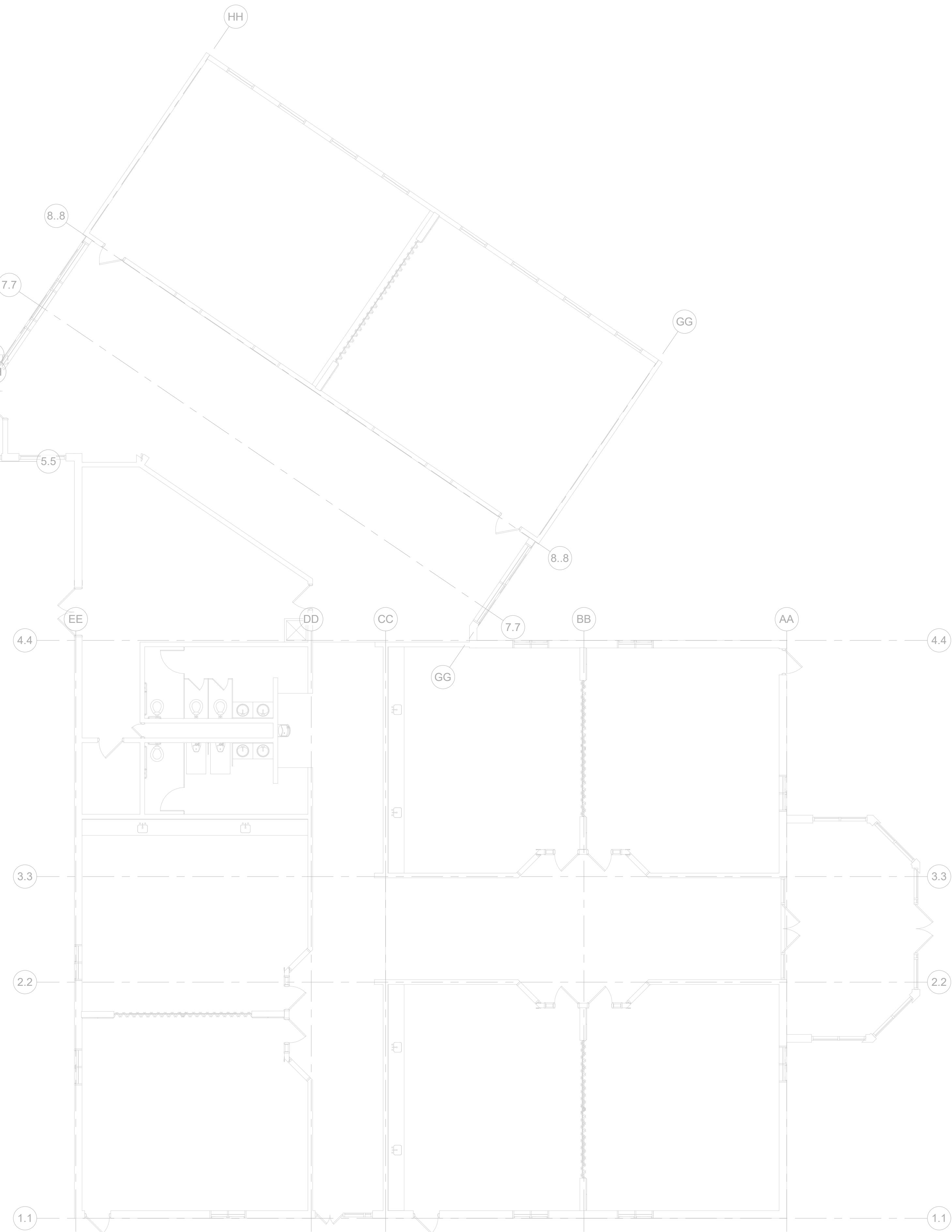
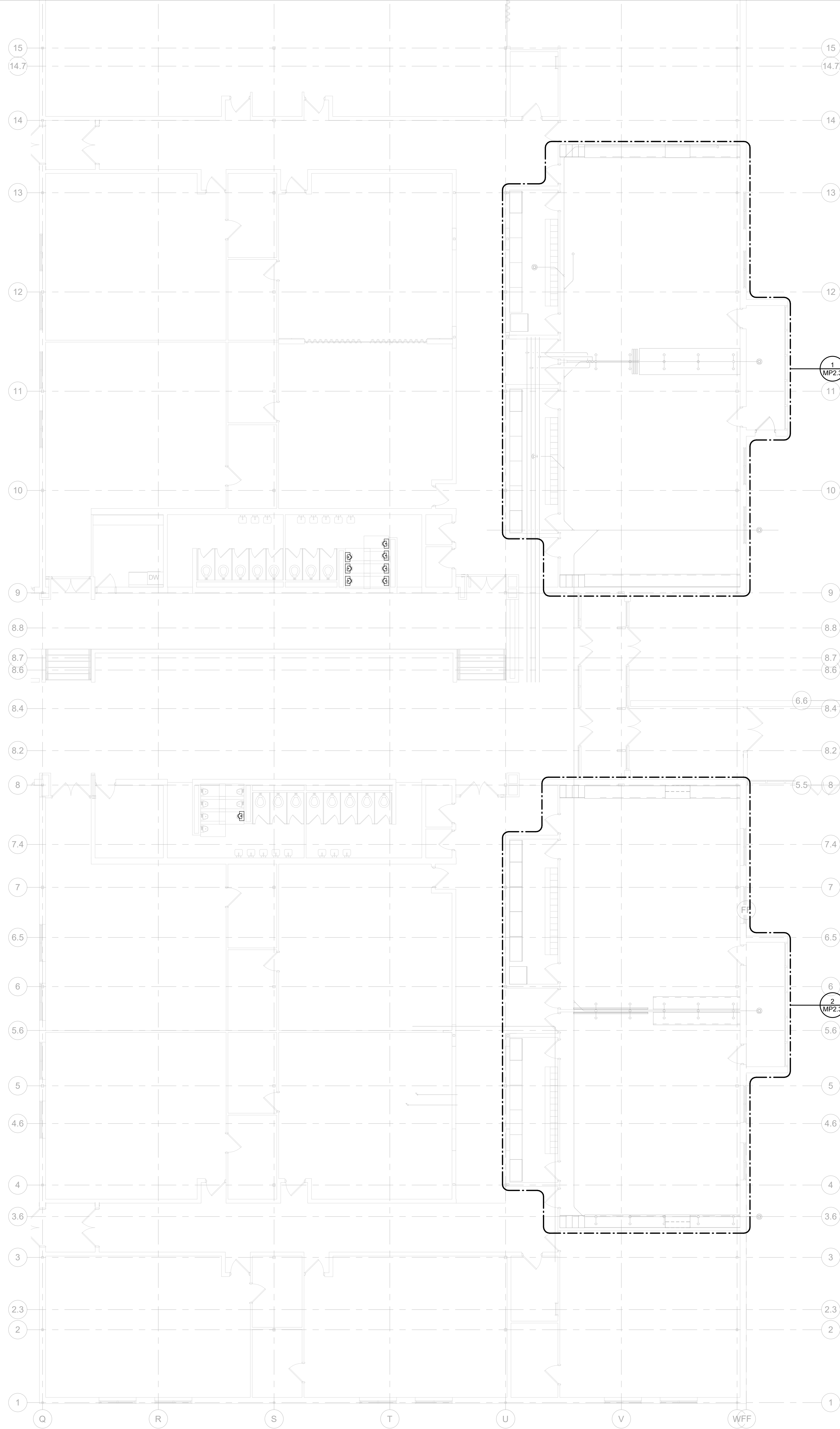
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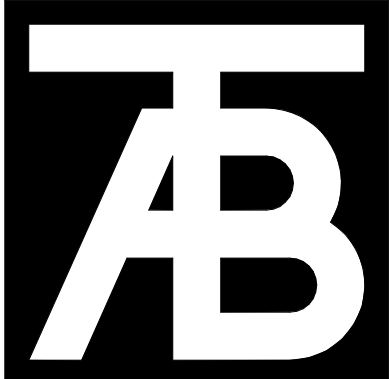
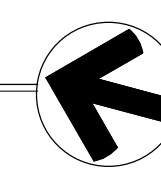
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FIRST LEVEL
AREA A
PLUMBING
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Project No:
10183.00

Sheet No:
MP2.1



SCIENCE ROOMS PLUMBING PLAN
SCALE: 1/8" = 1'-0"



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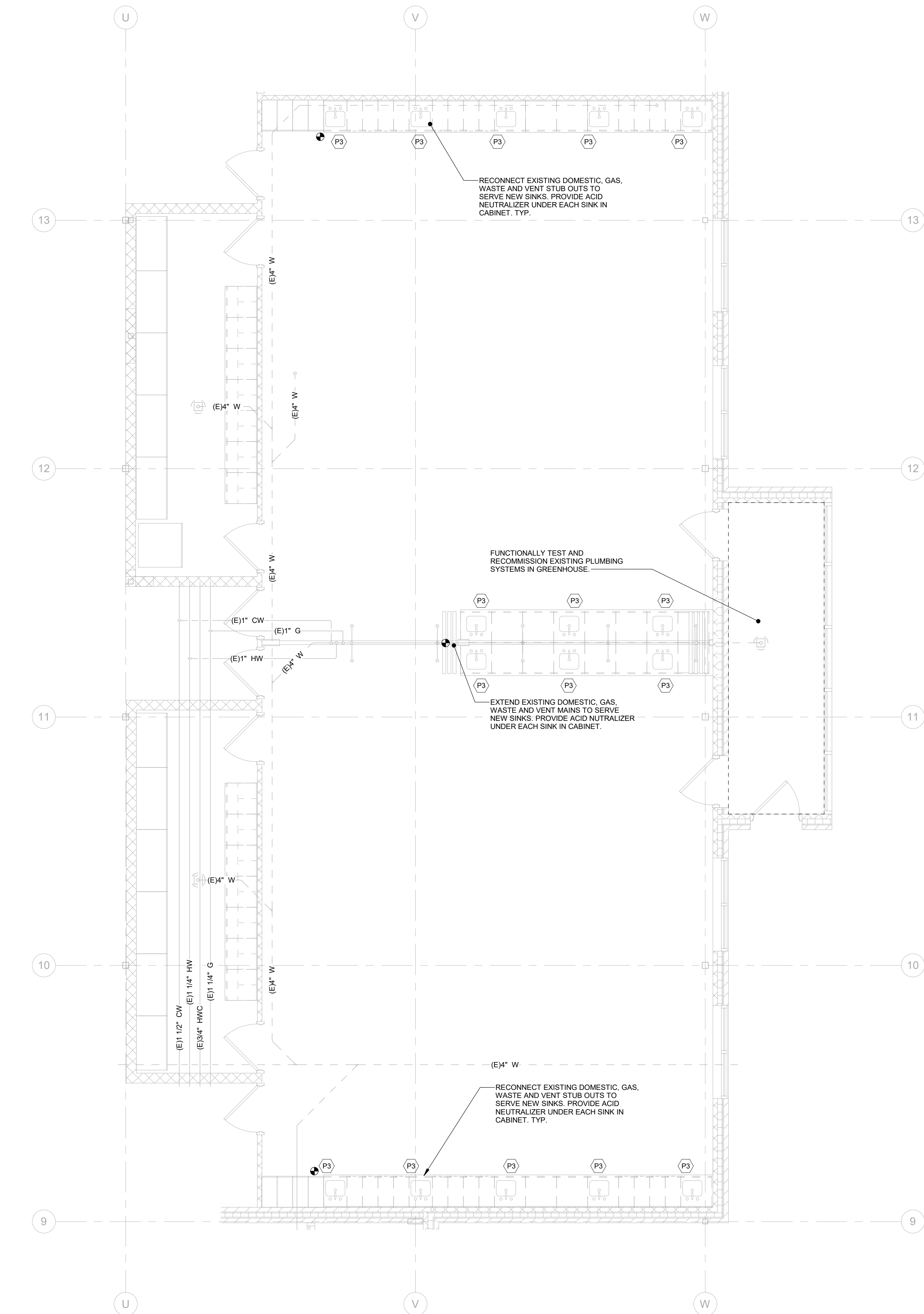
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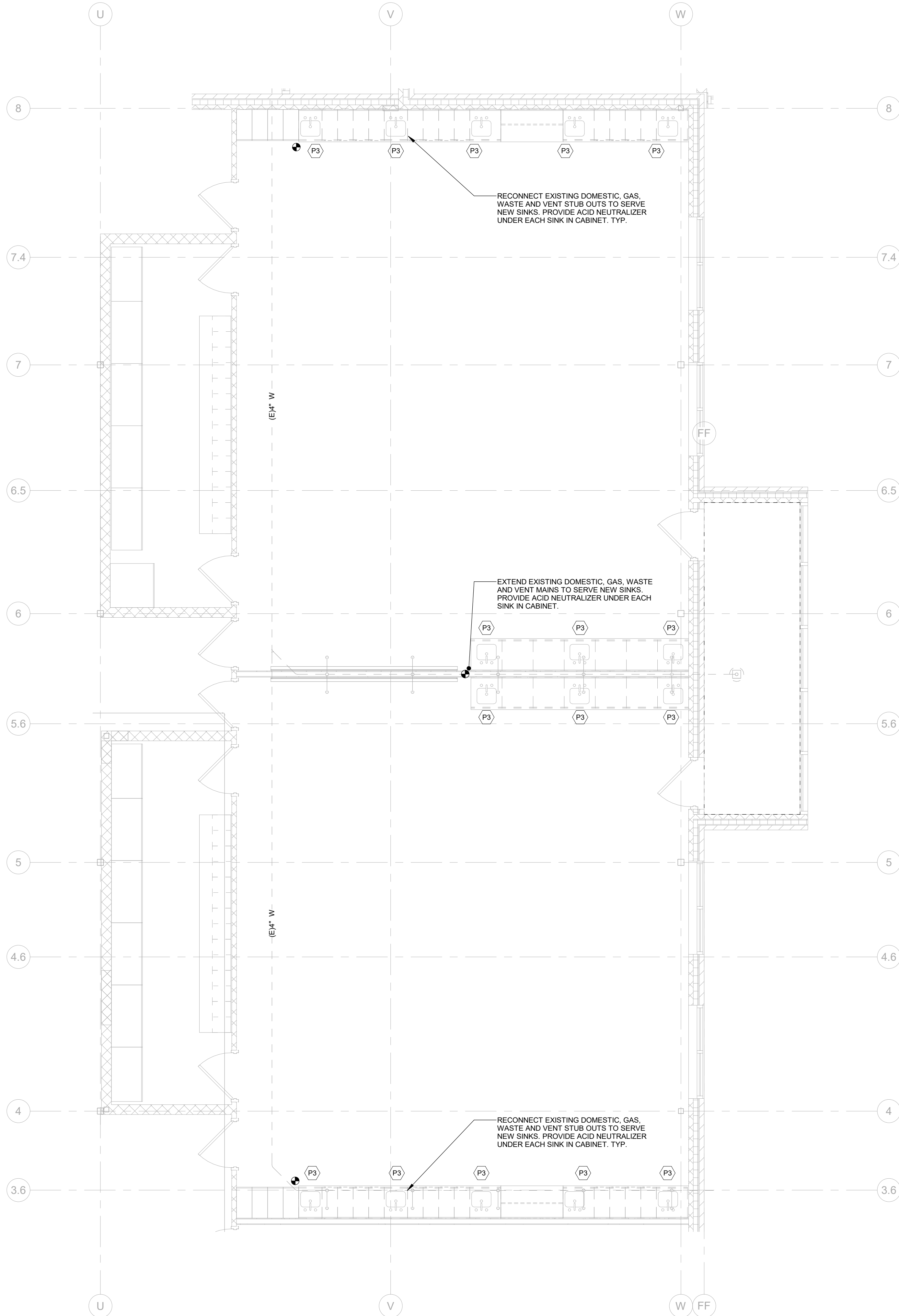
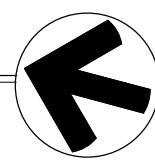
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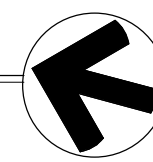
7TH GRADE SCIENCE ROOMS PLUMBING PLAN

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



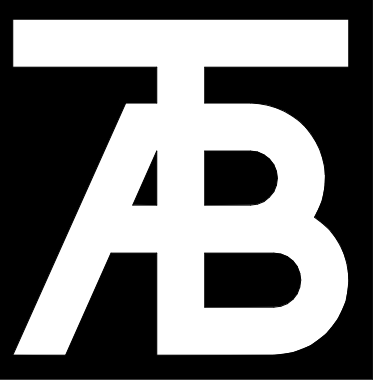
8TH GRADE SCIENCE ROOMS PLUMBING PLAN

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



NOTES:

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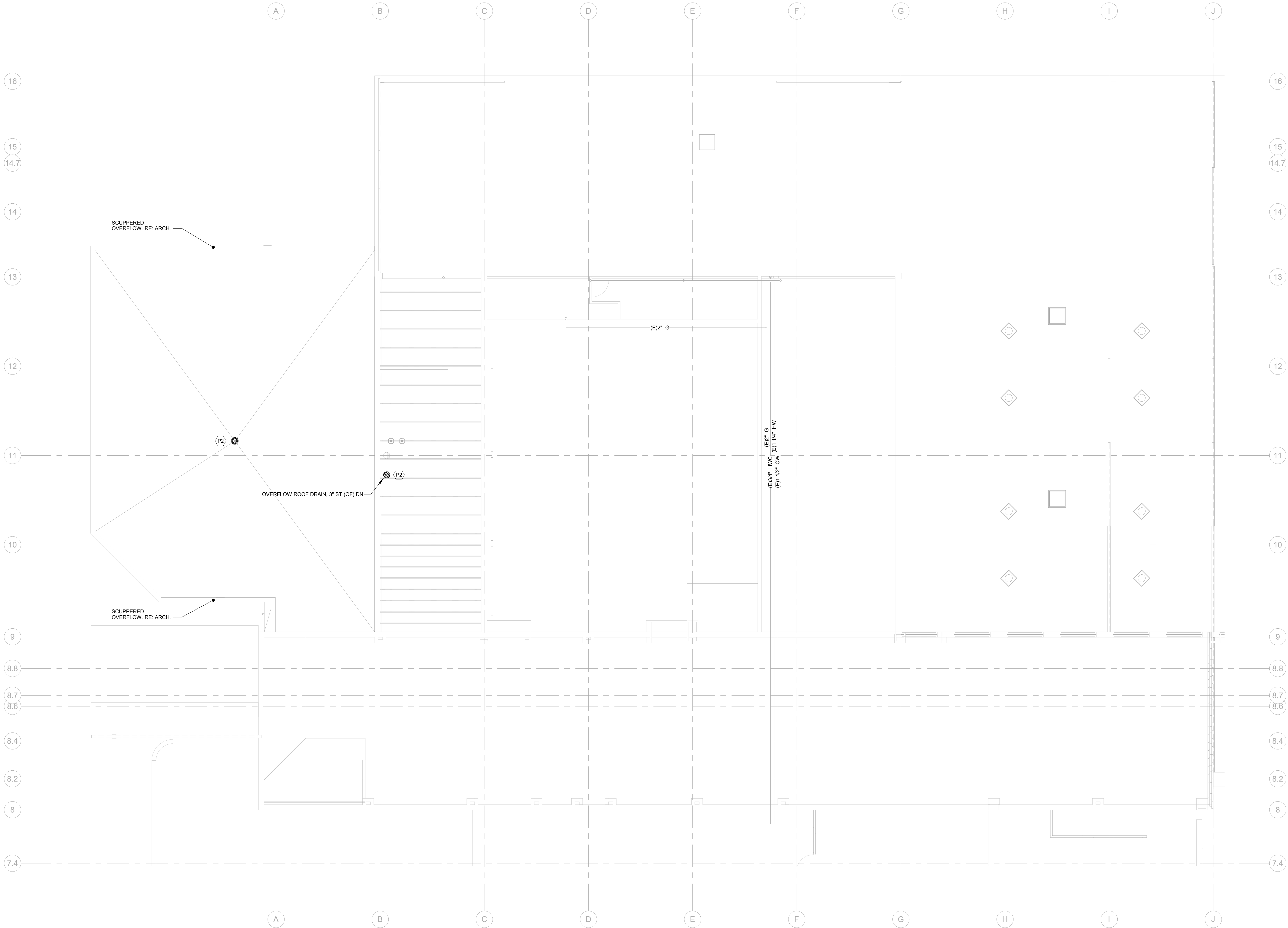
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Sheet Title:
**SCIENCE ROOMS
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PLUMBING
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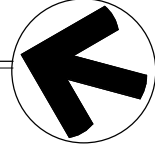
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Sheet No:
MP2.3



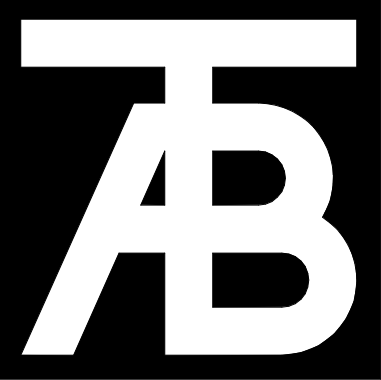


ROOF AREA A PLUMBING PLAN
SCALE: 1/8" = 1'-0"



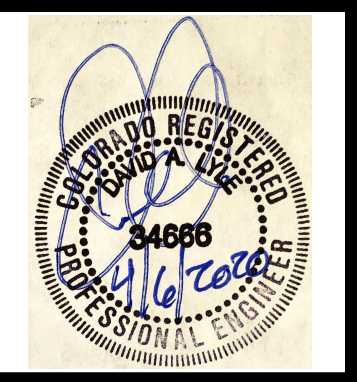
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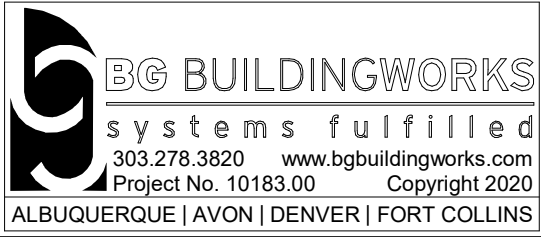
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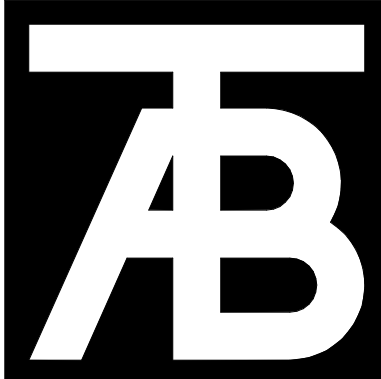
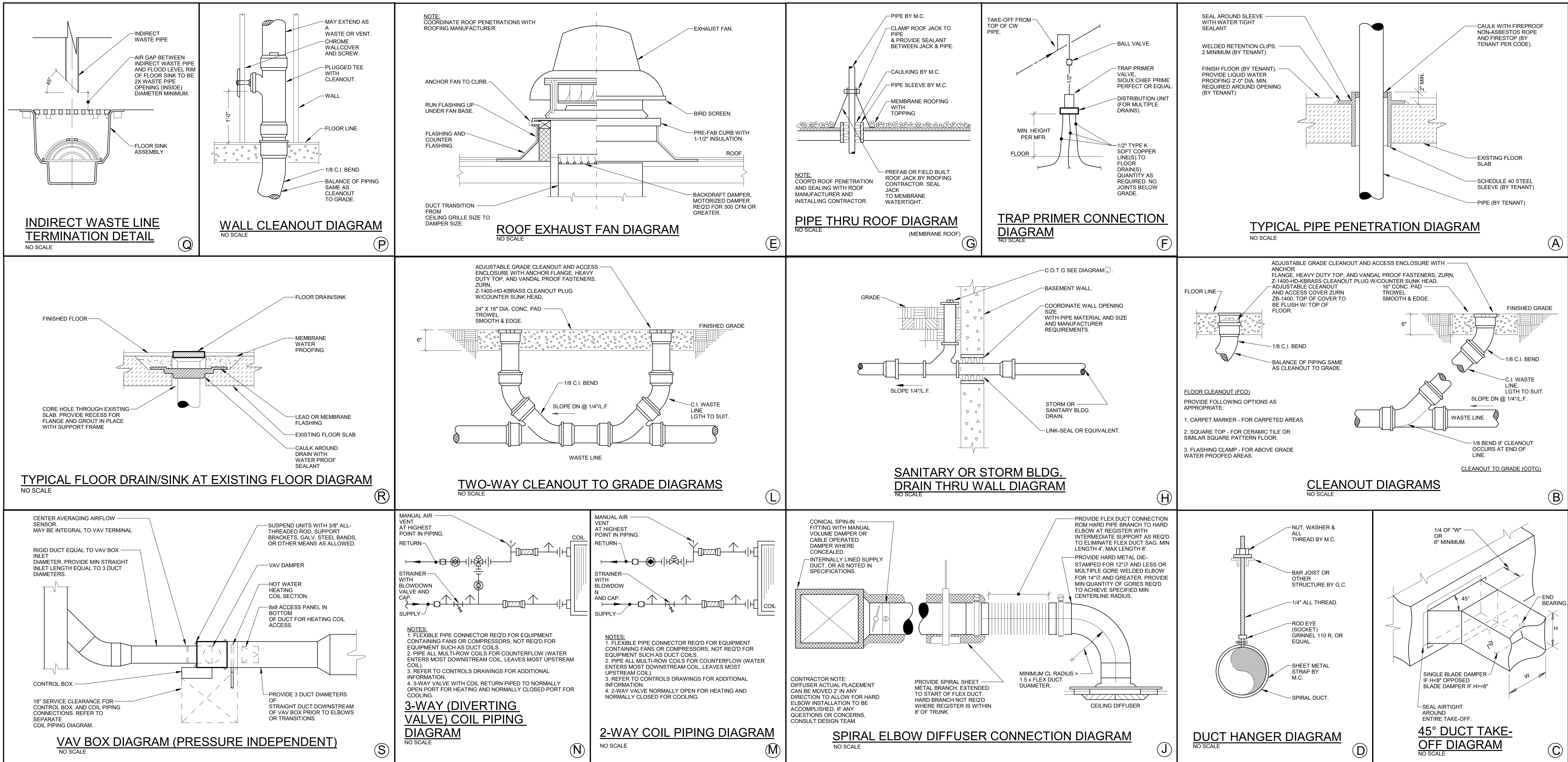
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ROOF AREA A
PLUMBING
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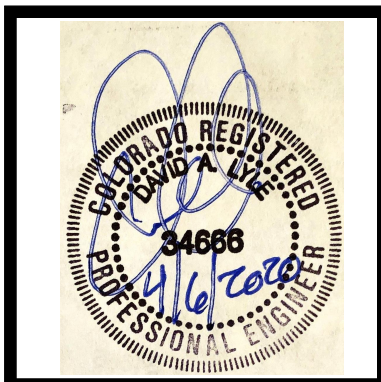
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Sheet No:
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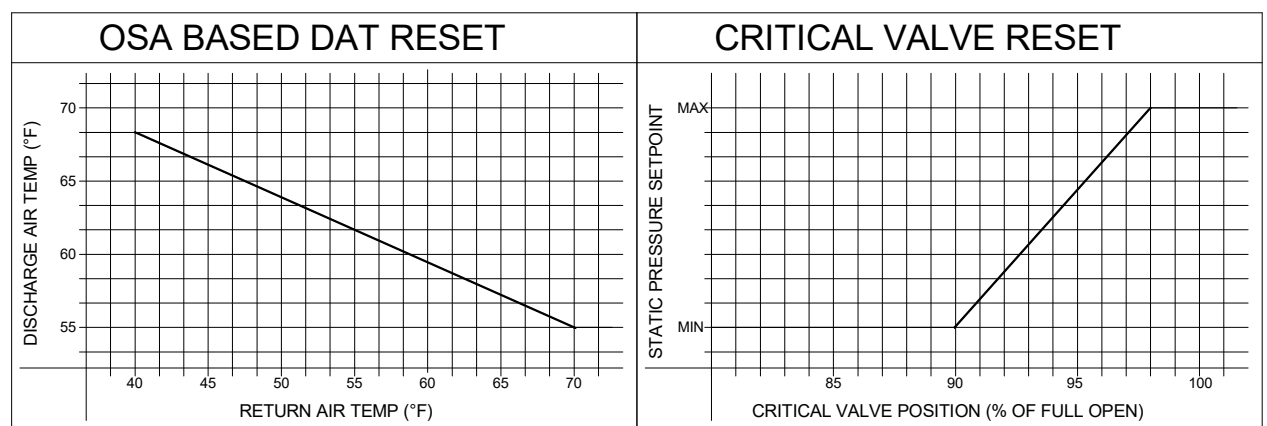
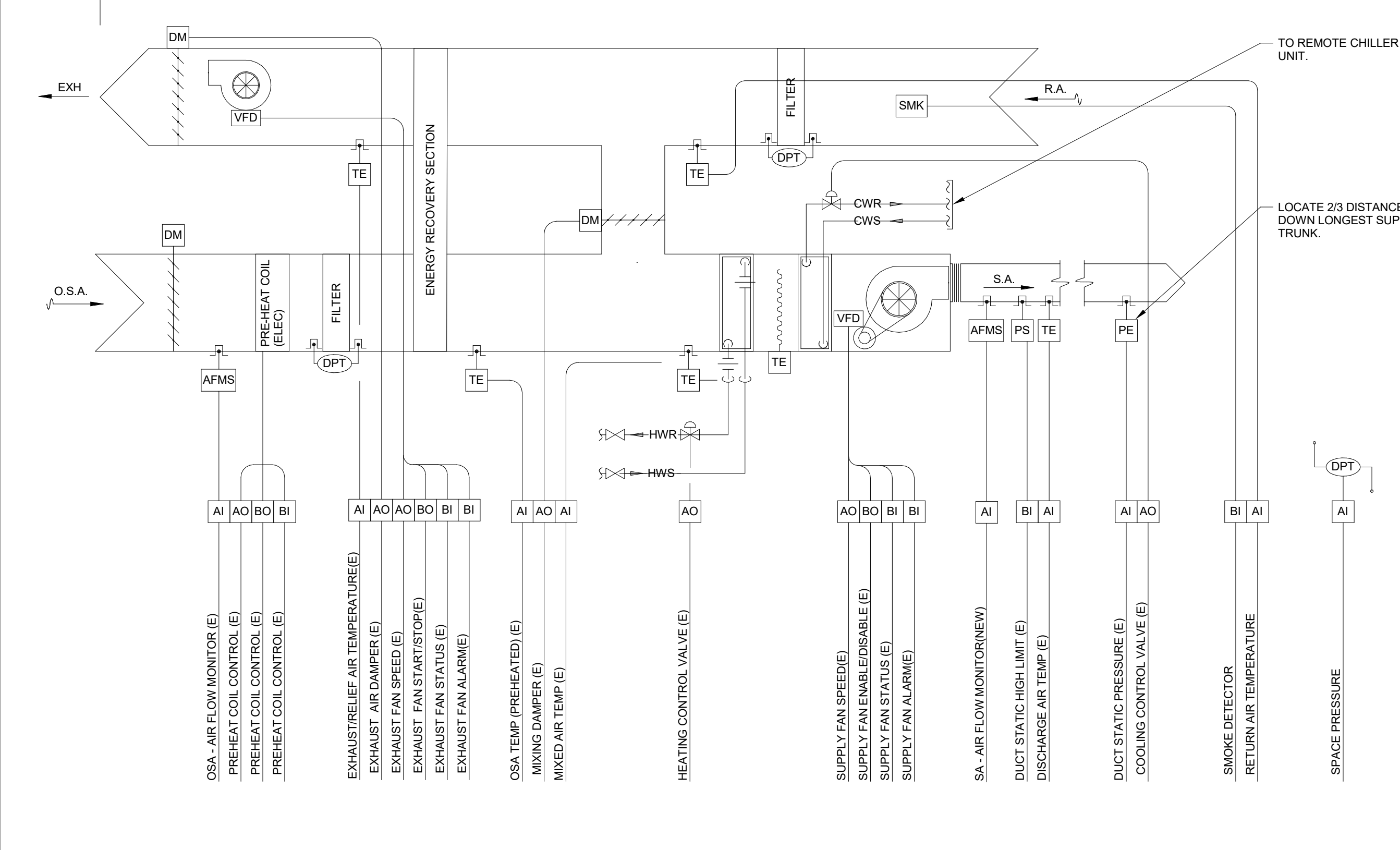
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Sheet Title:
**MECHANICAL
DIAGRAMS**

Project No:
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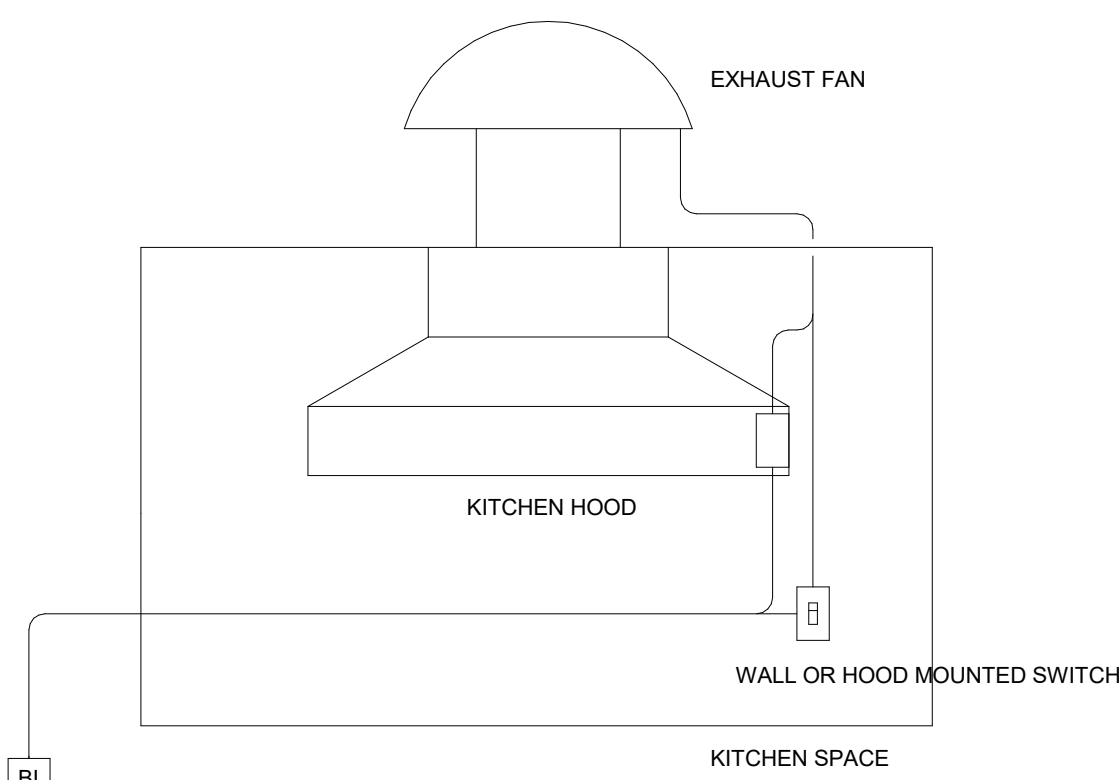
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POINT DESCRIPTION	ANALOG		BINARY		SYSTEM FEATURE	
	INPUT	OUTPUT	INPUT	OUTPUT	ALARMS	PROGRAMS
EXHAUST AIR DAMPER	X					
EXHAUST FAN SPEED	X					
EXHAUST FAN ENABLE/DISABLE	X					
EXHAUST FAN STATUS	X	X				
MIXED DAMPER POSITION	X					
MIXED AIR TEMPERATURE	X	X				
COOL - OUTDOOR REFERENCE	X	X				
HEATING CONTROL VALVE	X	X				
SUPPLY FAN SPEED	X					
SUPPLY FAN ENABLE/DISABLE	X					
SUPPLY FAN STATUS	X	X				
DUCT STATIC HIGH LIMIT	X					
DISCHARGE AIR TEMPERATURE	X	X				
AFMS - OSA	X	X				
DUCT STATIC PRESSURE	X	X				
SMOKE DETECTOR	X					
RETURN AIR TEMPERATURE	X	X				
AFMS - SA	X	X				
SPACE PRESSURE	X	X				

4 RTU-1: EXISTING ROOFTOP UNIT CONTROL DIAGRAM
SCALE: NONE



SEQUENCE OF CONTROL:

DDC SYSTEM WILL MONITOR KITCHEN HOOD ON/OFF STATUS.
THE HOOD EXHAUST FAN WILL BE ACTIVATED BY A SWITCH IN THE ROOM. UPON DETECTION OF HOOD FAN ACTIVATION DDC SYSTEM WILL SEND SIGNAL TO OVERRIDE VAV BOX OPERATION TO CONSTANT VOLUME OPERATION PER VAV SCHEDULE.

5 KEF-1 AND KEF-2 - KITCHEN HOOD EXHAUST CONTROL DIAGRAM
SCALE: NONE

SEQUENCE OF CONTROL:

DESCRIPTION - THE SYSTEM CONSISTS OF AN EXISTING, SINGLE ZONE, LOW PRESSURE ROOF TOP AIR HANDLER UNIT THAT WILL BE CONVERTED TO A MEDIUM PRESSURE MULTI-ZONE VARIABLE AIR VOLUME UNIT. THE EXISTING DDC CONTROL POINTS WILL BE REUSED AND NEW POINTS ADDED TO ACHIEVE THE NEW SEQUENCE OF OPERATION. THE DIAGRAM SHOWS EXISTING AND NEW CONTROL POINTS.

ALL PROGRAMMING, CONTROLS, DAMPERS, ACTUATORS, SENSOR, ETC REQUIRED FOR THE CONVERSION OF THE RTU TO BE PROVIDED AND INSTALLED BY THE TEMPERATURE CONTROLS CONTRACTOR.

GENERAL SECTION:
OUTSIDE AIR, MIXED AIR, BYPASS, AND EXHAUST AIR DAMPERS ARE PROVIDED WITH THE ENERGY RECOVERY UNIT. THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE WHENEVER THE SUPPLY FAN STOPS UNDER ANY CONDITION. THE MIXED AIR DAMPER SHALL OPEN.

ALL CONTROL POINTS SHOWN SHALL REPORT TO THE DDC SYSTEM.
PROVIDE ALARM AT DDC WORKSTATION IF THE DISCHARGE AIR TEMPERATURE FALLS BELOW 45 DEG F, OR ABOVE 110 DEG F.

PROVIDE MANUFACTURER'S RECOMMENDED FROST PROTECTION SEQUENCE FOR THE HEAT WHEEL UTILIZING THE ELECTRIC PREHEATER, MODULATE PREHEATER AS REQUIRED. ELECTRIC HEAT IS TO BE ENABLED AND MODULATE BELOW NEGATIVE (-) 5 DEG F.

PROVIDE ALL ALARMS AT DDC WORKSTATION.

LIFE SAFETY SECTION - SHOULD THE SMOKE DETECTOR, FREEZE STAT, OR DOOR SWITCH ACTIVATE, THE SUPPLY FAN AND EXHAUST FANS SHALL STOP IN BOTH THE MANUAL OR AUTOMATIC MODE, INDEPENDENT OF THE CONTROL SYSTEM. AN ALARM SIGNAL SHALL BE INDICATED AT THE DDC CONTROL PANEL.

THE DISCHARGE AIR TEMPERATURE SHALL BE LIMITED TO A MINIMUM OF 55 DEG F, AND A MAXIMUM OF 90 DEG F. SHOULD THE SUPPLY FAN OR EXHAUST FAN FAIL TO START OR FAIL DURING OPERATION FOR ANY REASON, AN ALARM SHALL BE INDICATED AT THE DDC CONTROL PANEL. VALVES SHALL OPEN UPON UNIT FAILURE, LOSS OF POWER OR IF THE UNIT IS SHUT DOWN DURING NORMAL OPERATION. DAMPERS SHALL CLOSE UPON A UNIT FAILURE, LOSS OF POWER OR IF THE UNIT IS SHUT DOWN DURING NORMAL OPERATION.

UNIT START / STOP CONTROL: THE DDC SYSTEM TIME AND OPTIMUM START/STOP PROGRAMS SHALL CONTROL THE SYSTEM IN THE FOLLOWING CONTROL CYCLES (INITIALLY START AT 6:30 A.M. AND INITIALLY STOP AT 4:30 P.M.) (ADJ.) WARM UP / COOL DOWN CYCLE: AS CALCULATED BY THE DDC OPTIMUM START PROGRAM. THE WARM UP / COOL DOWN CYCLE SHALL START AS LATE AS POSSIBLE TO BRING THE SPACE TO ITS PROGRAMMED SETPOINT BY THE PROGRAMMED OCCUPIED TIME.
WARM UP: DURING THE WARM UP, THE SUPPLY FAN SHALL BE ON, THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE 100% CLOSED AND THE MIXED AIR DAMPER SHALL BE 100% OPEN. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED SETPOINT, THE SYSTEM SHALL GO TO THE OCCUPIED CYCLE.
COOL DOWN: THE COOL DOWN CYCLE SHALL BE THE SAME AS THE OCCUPIED CYCLE.
SCHEDULING: THE RTU SHALL BE SCHEDULED IN EITHER OCCUPIED OR UNOCCUPIED MODE BASED ON FEEDBACK STATUS FROM THE RESPECTIVE TERMINAL BOX ZONES SERVED BY THE RTU. WHEN ALL RESPECTIVE ZONES SERVED ARE IN UNOCCUPIED MODE, THE RTU OPERATIONAL MODE SHALL BE UNOCCUPIED. WHEN ANY OF THE RESPECTIVE ZONES ARE IN OCCUPIED MODE, THE RTU OPERATIONAL MODE SHALL BE OCCUPIED. WHEN IN OCCUPIED MODE, BOTH FANS SHALL OPERATE AND CONTROL VALVE POSITIONS WITH RESPECT TO THEIR FL CONTROL LOOP. WHEN IN UNOCCUPIED MODE, FANS SHALL SHUT OFF. RETURN DAMPER FULL OPEN, RELIEF AND OUTSIDE AIR DAMPERS CLOSED. HOT WATER VALVE 5% OPEN (ADJ.) TO COIL.

OCCUPIED CYCLE: THE SUPPLY AND EXHAUST FANS SHALL START AT MINIMUM SPEED AND RUN CONTINUOUSLY. DEMAND CONTROL VENTILATION SHALL BE THE FIRST STAGE OF CONTROL FOR THE OUTSIDE AIR DAMPER AND MIXED AIR DAMPER. EXHAUST AIR DAMPER SHALL BE 100% OPEN.
SUPPLY FAN CONTROL: THE SUPPLY FAN VFD SHALL RUN AND MODULATED BASED ON DUCT STATIC PRESSURE. FEEDBACK TO MAINTAIN DUCT STATIC PRESSURE AT SETPOINT. EMPLOY CRITICAL VALVE RESET LOGIC TO MAINTAIN THE MOST OPEN PRIMARY AIR VALVE IN THE SYSTEM AT 90% OR GREATER. POLL ALL VALVE POSITIONS TO DETERMINE MOST OPEN (CRITICAL) VALVE. RESET STATIC PRESSURE SETPOINT PER THE SCHEDULE BELOW.

EXHAUST/RELIEF SYSTEMS CONTROL: THE EXHAUST DAMPER AND EXHAUST/RELIEF FAN SHALL OPERATE IN OCCUPIED MODE AND BE CONTROLLED BASED ON SPACE PRESSURE REFERENCED AGAINST OUTSIDE AIR PRESSURE. VALUES INDICATED BELOW ARE DIFFERENTIAL PRESSURES BETWEEN THE TWO MEASUREMENTS. UPON A RISE IN SPACE PRESSURE TO +0.02" WC, OPEN THE EXHAUST DAMPER AND STAGE EXHAUST/RELIEF FAN VFD FROM MINIMUM TO FULL SPEED AS BUILDING SPACE PRESSURE RISES FROM +0.02" WC TO +0.06" WC.

DEMAND CONTROL VENTILATION (DCV): DURING OCCUPIED MODE THE BUILDING AUTOMATION SYSTEM WILL MONITOR CARBON MONOXIDE CO2 AT EACH ZONE AND FROM OUTSIDE TO DETERMINE OCCUPANCY LEVELS IN EACH ZONE. BASED ON OCCUPANCY, THE DCV PROGRAM WILL RESET THE VAV BOX MINIMUM VENTILATION CFM TO MAINTAIN CODE REQUIRED VENTILATION TO EACH ZONE. AS VAV BOX MINIMUM CFMS CHANGE, DCV PROGRAM WILL CALCULATE NEW VENTILATION FRACTION FOR RTU AND RESET OSA CFM.
THE EXHAUST FAN SPEED SHALL BE PROVIDED WITH AN OFFSET BASED ON SUPPLY FAN SPEED TO MAINTAIN PLENUM STATIC PRESSURE OF 0.05 IN.W.C. (ADJUSTABLE).

DISCHARGE AIR TEMPERATURE (DAT) CONTROL: DAT SETPOINT SHALL BE BASED ON O.S.A. TEMP RESET SCHEDULE BELOW. THE DISCHARGE AIR TEMPERATURE SHALL BE MAINTAINED BY:

- 1ST STAGE OF HEATING: ENABLING THE HEAT WHEEL.
- 2ND STAGE OF HEATING: WHEN THE 1ST STAGE OF HEATING CANNOT MAINTAIN THE SPACE TEMPERATURE FOR TEN MINUTES (ADJ.) THEN THE HEATING WATER CONTROL VALVE SHALL OPEN AND MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.
- LESS HEATING SHALL BE OPPOSITE OF ABOVE.
- 1ST STAGE COOLING: MODULATING THE MIXED AIR DAMPER, BYPASS DAMPERS, AND OUTSIDE AIR DAMPER FOR ECONOMIZER COOLING WITH THE HEAT WHEEL OFF. (SEE BELOW FOR ECONOMIZER COOLING)
- 2ND STAGE OF COOLING: WHEN THE 1ST STAGE OF COOLING CANNOT MAINTAIN THE SPACE TEMPERATURE FOR TEN MINUTES (ADJ.) THEN THE HEAT WHEEL SHALL BE ENABLED.
- 3RD STAGE OF COOLING: WHEN THE 2ND STAGE OF COOLING CANNOT MAINTAIN THE SUPPLY AIR TEMPERATURE FOR TEN MINUTES (ADJ.) THE CHILLED WATER COIL CONTROL VALVE SHALL OPEN AND MODULATE TO MAINTAIN SUPPLY AIR TEMPERATURE.
- LESS COOLING SHALL BE OPPOSITE OF ABOVE.
- ECONOMIZER COOLING IS ENABLED WHENEVER THE OUTSIDE AIR DRY-BULB TEMPERATURE IS LESS THAN THE RETURN AIR DRY-BULB TEMPERATURE PLUS DEADBAND. WHEN THE OUTSIDE AIR DRY-BULB TEMPERATURE IS GREATER THAN THE RETURN AIR DRY-BULB TEMPERATURE, ECONOMIZER COOLING IS DISABLED. ECONOMIZER COOLING IS DISABLED AND THE OUTSIDE AIR DAMPER SHALL RETURN TO MINIMUM POSITION. THE OUTSIDE AIR DAMPERS SHALL MODULATE IN RESPONSE TO THE GREATER OF THE ECONOMIZER AND THE DEMAND CONTROLLED VENTILATION SEQUENCE.
- ELECTRIC PREHEAT COIL: ELECTRIC PREHEAT COIL TO BE ENABLED AND MODULATED TO MAINTAIN A PREHEAT ELECTRIC COIL LEAVING AIR TEMPERATURE (EHT) OF 19 DEG.F.
- OUTSIDE AIR DAMPER CONTROL: THE OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION IN EITHER THE COOLING OR HEATING MODE USING THE OA FLOW MEASURING STATION. THE OUTSIDE DAMPER SHALL BE PROVIDED WITH A LINEAR RESET FOR HEATING TO COOLING BASED ON OUTSIDE AIR TEMPERATURE. OUTSIDE AIR DAMPER SHALL BE SET AT THE HEATING OUTSIDE AIR POSITION AT 30 DEG.F. AND RESET TO COOLING POSITION AT 70 DEG.F. OUTSIDE AIR.
- FEATURES -
1. DISCHARGE AIR TEMPERATURE SHALL BE TRENDED HOURLY.
2. GENERATE AN ALARM SHOULD DISCHARGE AIR TEMPERATURE STRAY FROM DISCHARGE AIR TEMPERATURE SETPOINT BY 5 DEG OR MORE.
3. GENERATE FILTER CHANGE ALARM SHOULD FILTER DIFFERENTIAL PRESSURE EXCEED FILTER CHANGE SETPOINT (ADJUSTABLE AT THE OPERATOR INTERFACE).
4. GENERATE AN ALARM SHOULD ANY FAN STATUS NOT MATCH FAN COMMAND.
5. GENERATE AN ALARM AND OPEN HEATING VALVE TO 100% SHOULD FREEZE STAT TRIP AND DAMPERS SHALL GO TO UNOCCUPIED MODE POSITION.
6. GENERATE AN ALARM SHOULD SMOKE DETECTOR TRIP AND SHUT UNIT DOWN, VALVES AND DAMPERS SHALL GO TO UNOCCUPIED MODE.
7. DISABLE SUPPLY FAN AND GENERATE ALARM SHOULD DUCT HIGH STATIC PRESSURE SWITCH TRIP.
8. HOURLY TREND ITEMS INDICATED IN THE POINTS LIST TO BE TRENDED. STORE DATA FOR 1 YEAR PRIOR TO PURGING.
9. GENERATE ALARMS AS INDICATED IN THE POINTS LIST AND IN THE SEQUENCE OF CONTROL ABOVE.

SEQUENCE OF CONTROL:

EXHAUST FAN SYSTEM TO BE INDEPENDENT OF DDC CONTROL.

FAN SHALL BE INTERLOCKED TO RUN WITH RESTROOM LIGHTING CONTROL. WHEN LIGHTING IS ON, FAN WILL RUN. WHEN LIGHTING IS OFF, FAN WILL BE OFF.

3 SPED RESTROOM EXHAUST CONTROL DIAGRAM
SCALE: NONE

1. CONTROLS CONTRACTOR TO COVER ALL COSTS OF ELECTRICAL POWER REQUIREMENTS, IF ANY, AND LINE VOLTAGE WIRING, IF ANY, BY LICENSED ELECTRICIAN.
2. SEQUENCES OF OPERATION DEFINED HEREIN DESCRIBE GENERAL INTENT AND DO NOT INCLUDE ALL NECESSARY PROCEDURES/STEPS REQUIRED. ANTICIPATE FINE TUNING OF SEQUENCES (INCLUDING, BUT NOT LIMITED TO, SETPOINT ADJUSTMENTS, DEADBAND REFINEMENT, RESET CURVES ENDPOINTS, TIME DELAYS, OFFSETS, AND ACTUAL SEQUENCING DETAILS), MAY BE REQUIRED AND SHALL BE PERFORMED AS REQUIRED DURING FUNCTIONAL PERFORMANCE TESTING OF THE SYSTEMS. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY AND ALL FINE TUNING ADJUSTMENTS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
3. CONTROLS SHALL BE FIELD INSTALLED. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING AND INSTALLING ALL DEVICES REQUIRED FOR A FULLY FUNCTIONAL CONTROL SYSTEM FOR THIS PROJECT, REGARDLESS OF VOLTAGE. IF THE CONTRACTOR CANNOT SELF-PERFORM WORK REQUIRING LINE VOLTAGE THEN THE CONTRACTOR SHALL COORDINATE WITH AND COMPENSATE THE ELECTRICAL CONTRACTOR AS REQUIRED. CONTROLS CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS TO ENSURE THAT ALL DEVICES ARE COMPATIBLE WITH THE EXISTING CONTROLS SYSTEM AND EXISTING MECHANICAL EQUIPMENT.
4. ALL CONTROL WIRING TO BE INSTALLED IN PLENUM RATED CONDUIT.

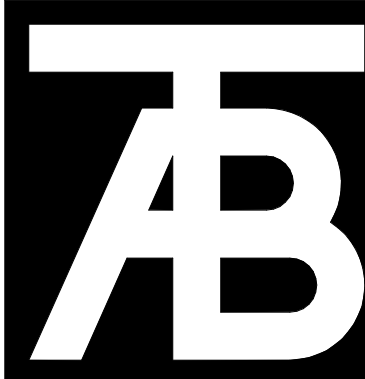
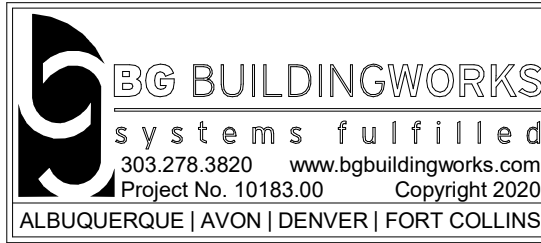
5. NO NETWORKED CONTROL POINTS ARE ALLOWED. ALL SENSORS TO BE HARDWIRED DIRECTLY TO CONTROLLING MOULDE.
6. DESCRIPTION - THE BUILDING CONTROL SYSTEM (BCS) SHALL CONSIST OF AN ASHRAE STANDARD 135 COMPLIANT (BACNET COMPATIBLE) DEVICES AND CONTROLLERS. MAJOR COMPONENTS, INCLUDING BOILERS, PUMPS, RTUS, VAV BOXES, FAN POWERED BOXES, VFDs, WATER HEATERS, AND COMPUTER ROOM COOLING SYSTEMS SHALL BE PROVIDED BY MANUFACTURER WITH BACNET COMPATIBLE CONTROLLERS WITH ALL AVAILABLE INFORMATION WITHIN COMMUNICATED TO AND GRAPHICALLY REPRESENTED IN THE BCS.
7. REMOTE ACCESS - PROVIDE REMOTE ACCESS VIA WEB BASED INTERFACE (WEB ACCESS ITSELF IS NOT PART OF THIS CONTRACT).
8. BUILDING OCCUPANCY - IN ADDITION TO THE OCCUPANCY SCHEDULING FEATURES AVAILABLE THROUGH THE BCS SOFTWARE, PROVIDE MANUAL CONTROLLABILITY OF OCCUPANCY STATUS. MANUAL CONTROL OF OCCUPANCY STATUS SHALL BE ADJUSTABLE THROUGH THE OPERATOR INTERFACE. MANUAL OCCUPANCY OVERRIDE DURATION SHALL BE ADJUSTABLE.
9. GRAPHICS - ALL BCS POINTS SHALL BE REPRESENTED BY GRAPHIC DISPLAY ON THE WEB BASED INTERFACE. ITEMS SUCH AS PUMPS, FANS, CONTROL VALVES, AND DAMPER ACTUATORS SHALL BE REPRESENTED BY GRAPHIC DISPLAYS. GRAPHICAL FLOOR PLANS SHALL INDICATE ANNOTATED ZONE DESIGNATIONS AS

- WELL AS THEIR SPACE TEMPERATURE SETPOINT, SPACE TEMPERATURE, AND MODE OF OPERATION "HEATING", "COOLING" OR "INACTIVE". BACKGROUND COLOR OF ZONES SHALL BE CHANGED AS FOLLOWS: GREEN - SPACE TEMPERATURE WITHIN 3°F OF SETPOINT; RED - SPACE TEMPERATURE GREATER THAN 3°F ABOVE SETPOINT; BLUE - SPACE TEMPERATURE LOWER THAN 3°F BELOW SETPOINT.
10. GRAPHICAL FLOOR PLANS SHALL ALSO INDICATE CENTRALIZED PLANT EQUIPMENT, VAVS, AHUS, RTUS, AND DISTRIBUTED IT ROOM COOLING SYSTEM BY LOCATION. ANIMATED GRAPHICS ARE NOT REQUIRED ON THE GRAPHICAL FLOOR PLAN SCREEN. ADDITIONAL INFORMATION FOR THE EQUIPMENT IS INDICATED ON THE GRAPHICAL FLOOR PLANS SHALL BE EASILY ACCESSED BY DOUBLE-CLICKING THE ASSOCIATED FLOOR PLAN GRAPHIC. ADDITIONAL INFORMATION FOR THE CENTRAL PLANT AS A WHOLE SHALL BE ACCESSIBLE IN THE SAME MANNER.
11. LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. LOCATIONS ONLY, INDICATE EXACT LOCATION OF ALL DEVICES IN THE FIELD WITH CLEARLY MARKED IDENTIFIERS AND OBTAIN ARCHITECTS' AND ENGINEER'S APPROVAL PRIOR TO ROUTING CONDUIT AND PULLING WIRE.
12. VARIABLE FREQUENCY DRIVES (VFDs) TO BE PROVIDED WITH BACNET COMPATIBLE INTERFACE TO MONITOR CURRENT VFD STATUS AND OPERATING CONDITIONS THROUGH ITS COMMUNICATION PORT.

CONTROLS GENERAL NOTES:

13. ALARMS - PROVIDE THE FOLLOWING SPECIFIC DIAL-OUT ALARMS TO DESTINATION DETERMINED BY THE OWNER: SPACE TEMPERATURE LOW LIMIT; IT (INP & BPS) ROOM TEMPERATURE HIGH LIMIT; GENERALIZED EQUIPMENT FAILURE ALARM (FOR EQUIPMENT SUCH AS PUMPS, WATER HEATERS, RTUS, ERVS, VFDOS, ETC)
14. ADJUSTABILITY - WITH THE EXCEPTION OF DESIGN TEMPERATURES, ALL SETPOINTS, TIME DELAYS, DURATIONS, RESET SCHEDULES, AND OTHER CONTROL VARIABLES SHALL BE ADJUSTABLE. VARIABLES REQUIRED FOR CONTROLS IMPLEMENTATION THAT ARE NOT DEFINED IN THE SEQUENCES OF CONTROL SHALL BE DEFINED BY CONTROLS CONTRACTOR IN THEIR SHOP DRAWING SUBMITTAL. CONTRACTOR'S SUGGESTED ADJUSTMENTS TO VARIABLES DEFINED IN THE SEQUENCES OF CONTROL, IF ANY, SHALL BE SUBMITTED IN THE CONTROLS DRAWINGS.
15. RESET CURVE GRAPHICS - CERTAIN CONTROLS'S SEQUENCES IN THIS DRAWING SET CONTAIN RESET CURVE GRAPHICS THAT ARE PROVIDED GRAPHICALLY. THOUGH THESE CURVES REPRESENT PROPORTIONAL CONTROL ONLY IN THE SIMPLEST INTERPRETATION, THE CONTROLS SYSTEM INTENT IS TO UTILIZE PROPORTIONAL-INTEGRAL (PI) AND/OR PROPORTIONAL-INTTEGRAL-DERIVATIVE (PID) LOOPS TO PERMIT TUNING OF CONTROLS SYSTEMS RESPONSE, LIMIT OVERSHOOT/UNDERSHOOT, AND IMPROVE SYSTEM STABILITY. RESET CURVE GRAPHICS ARE PROVIDED AS SUGGESTED STARTING POINTS FOR THE PROPORTIONAL COMPONENT ONLY; ALL ENDPOINTS, OFFSETS, SLOPES, ETC ARE FLEXIBLE.

16. CONTROLS RECORD DRAWINGS REQUIRED - CONTRACTOR SHALL MAINTAIN, THROUGH THE COURSE OF THE PROJECT, A COMPREHENSIVE RECORD OF MECHANICAL EQUIPMENT AND CONTROLS RELATED ADDENDUMS (ADIS, RTFS, AND CDS), ADJUSTMENTS TO SETPOINTS DEFINED HEREIN, INITIAL SETPOINTS NOT DEFINED HEREIN, ANY SUGGESTIONS FOR ADJUSTMENTS AND/OR CONTROL OF THE PROJECT. CONTROLS RECORD DRAWINGS SHALL BE MAINTAINED DURING THE COURSE OF CONSTRUCTION, STARTUP, AND COMMISSIONING SHALL BE REVIEWED BY THE ENGINEER. APPROVED CHANGES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. CHANGES TO RECORD DRAWINGS, ALL SUCH CHANGES SHALL BE UPDATED ELECTRONICALLY AND SUBMITTED TO THE OWNER DURING PROJECT CLOSEOUT.
17. TRENDDING - TRENDDING HISTORY WITH MINIMUM ONE YEAR STORAGE THE FOLLOWING SPACE TEMPERATURE FOR EACH ZONE; CO2 LEVEL FOR EACH ZONE EQUIPPED WITH DEMAND CONTROL VENTILATION; ADDITIONAL 1% STORAGE AVAILABILITY FOR OTHER POINTS THAT MAY REQUIRE FUTURE TRENDDING FOR TROUBLE SHOOTING, COMMISSIONING, ETC.
18. POINTS LISTS - CONTROLS DRAWING SUBMITTAL SHALL PROVIDE COMPLETE POINTS LISTS AND NAME/ADDRESS OF EACH POINT OCCURENCE WITHIN THE PROJECT.
19. SPARE CAPACITY - PROVIDE SYSTEM ARCHITECTURE/INFRASTRUCTURE WITH MINIMUM 10% SPARE CAPACITY FOR FUTURE ADDITIONAL POINTS EVENLY DISTRIBUTED ACROSS THE FACILITY.



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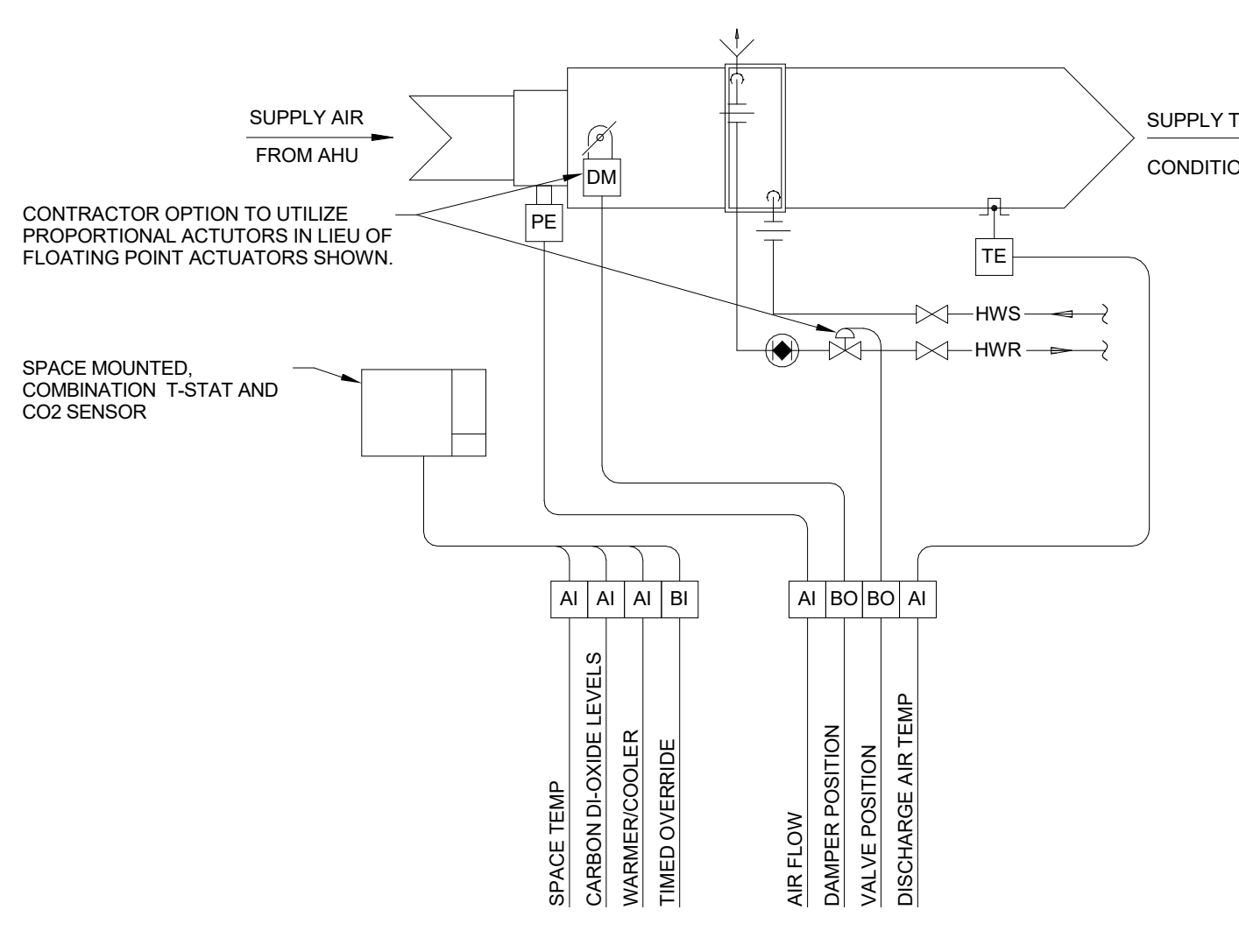
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Issue Dates:
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MECHANICAL
DIAGRAMS

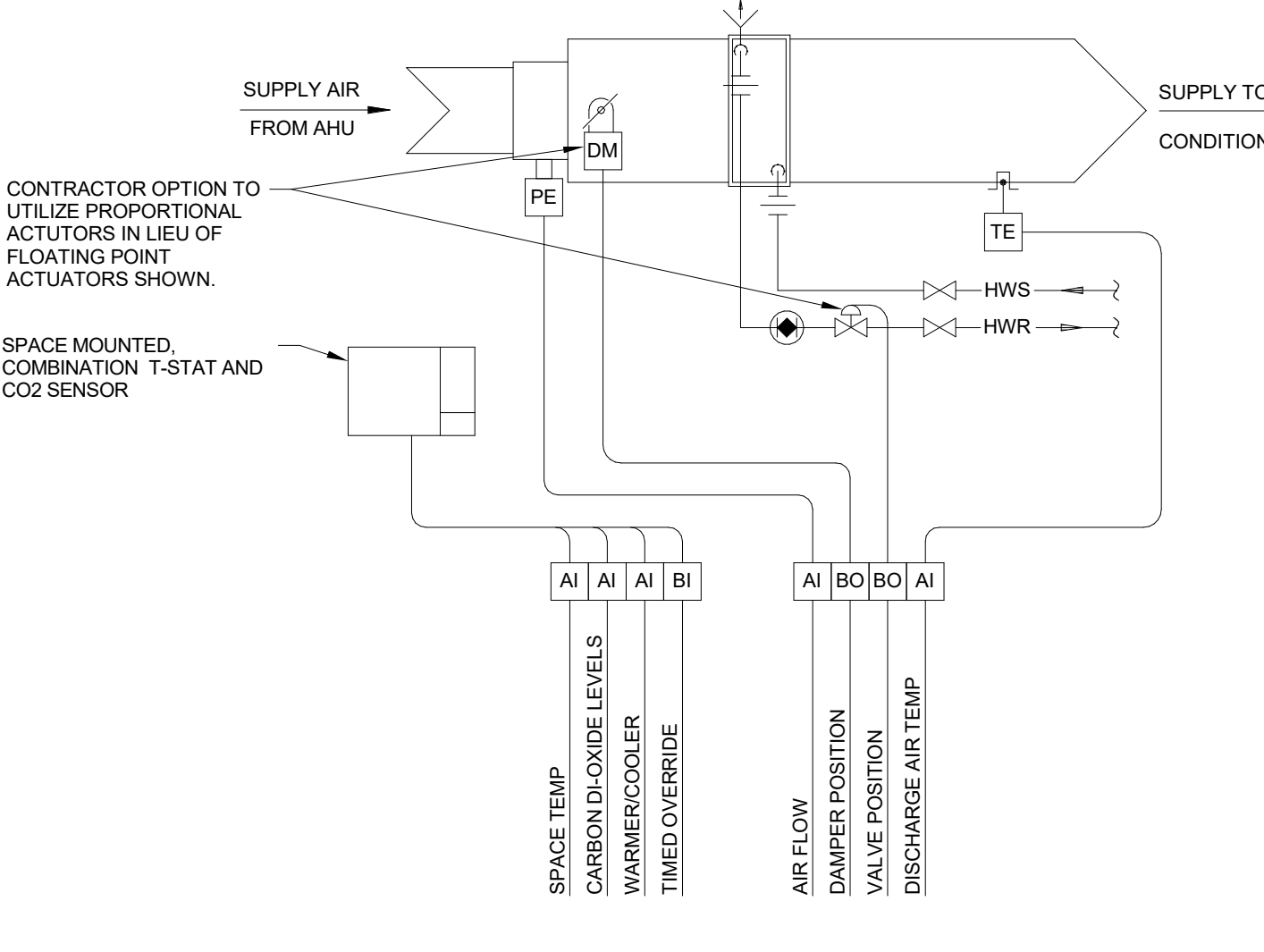
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SYSTEM POINT DESCRIPTION	ANALOG		BINARY		SYSTEM FEATURE	
	INPUT	OUTPUT	INPUT	OUTPUT	ALARMS	PROGRAMS
SPACE TEMP	X					
WARMER/COLER	X					
CO2 LEVEL	X					
AIRFLOW	X					
DAMPER POSITION	X					
VALVE POSITION	X					
DISCHG AIR TEMP	X					

1 VAV WITH REHEAT CONTROL DIAGRAM
SCALE: NONE



SYSTEM POINT DESCRIPTION	ANALOG		BINARY		SYSTEM FEATURE	
	INPUT	OUTPUT	INPUT	OUTPUT	ALARMS	PROGRAMS
SPACE TEMP	X					
WARMER/COLER	X					
CO2 LEVEL	X					
AIRFLOW	X					
DAMPER POSITION	X					
VALVE POSITION	X					
DISCHG AIR TEMP	X					

2 KITCHEN AND CAFETERIA SPACE VAV
SCALE: NONE

SEQUENCE OF CONTROL:

DESCRIPTION - THE NEW SYSTEMS CONSIST OF A PRESSURE INDEPENDENT VARIABLE AIR VOLUME BOX COMPLETE WITH MOTORIZED DAMPER, HOT WATER REHEAT COIL, FLOATING POINT OR PROPORTIONAL CONTROL VALVE, AND AIR FLOW PRESSURE TRANSDUCER.

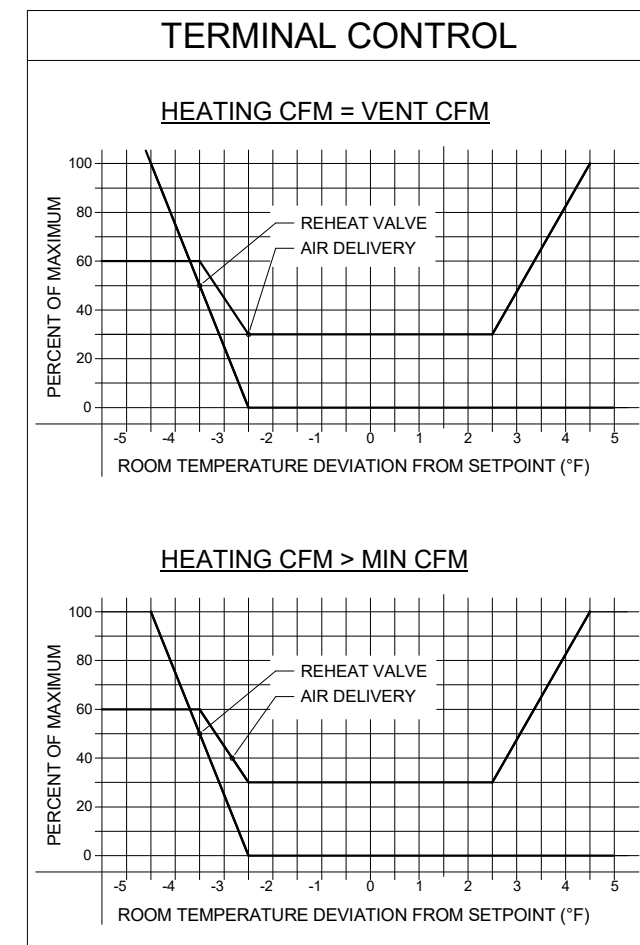
SCHEDULING - OCCUPIED/UNOCCUPIED SCHEDULING APPLIES TO THESE SYSTEMS. SCHEDULES TO BE DETERMINED BY OWNER AND SHALL BE AVAILABLE THROUGH THE OPERATOR WORKSTATION INTERFACE.

SCHEDULING CONTROLS: SPACE SETPOINT TEMPERATURE. DURING OCCUPIED MODE, TERMINAL UNIT SHALL MAINTAIN SPACE TEMPERATURE AT SETPOINT DICTATED BY SPACE MOUNTED THERMOSTAT (I.E. 68-72° HEATING, 76-80°F COOLING). DURING UNOCCUPIED MODE, TERMINAL UNIT SHALL MAINTAIN SPACE TEMPERATURE AT SETBACK TEMPERATURE SETPOINT (I.E. 60°F HEATING, N/A COOLING).

OCCUPIED/UNOCCUPIED SCHEDULING ALSO CONTROLS VENTILATION. WHEN SCHEDULED IN THE OCCUPIED MODE, TERMINAL UNIT SHALL PROVIDE MINIMUM VENTILATION CFM CALCULATED BY THE DEMAND CONTROL VENTILATION PROGRAM. WHEN SCHEDULED IN THE UNOCCUPIED MODE, DAMPER SHALL BE SHUT. TERMINAL BOX SHALL BE PERMITTED TO OPEN AS REQUIRED ON DEMAND FOR HEATING ONLY, DURING UNOCCUPIED PERIODS.

TIMED OVERRIDE - SHOULD THE TIMED OVERRIDE BE SWITCHED TO OCCUPIED DURING UNOCCUPIED MODE, OCCUPIED MODE OPERATION SHALL APPLY FOR THE TIMED OCCUPANCY DURATION.

CONTROL - THE AIRFLOW PRESSURE TRANSDUCER SHALL INDICATE TO THE UNIT MOUNTED DDC CONTROLLER MEASURED AIRFLOW. THE DDC CONTROLLER SHALL MODULATE THE VAV BOX DAMPER TO MAINTAIN AIRFLOW AT SETPOINT. AIRFLOW SETPOINT AND REHEAT VALVE SHALL BE MODULATED BASED ON SPACE TEMPERATURE DEVIATION FROM SETPOINT PER THE SAMPLE RESET SCHEDULES BELOW INDICATING DEADBAND, HEATING AND COOLING RAMP-UP RANGES, AND MINIMUM AIRFLOWS.



1. THE ADJACENT GRAPHICS ARE PROVIDED FOR REFERENCE ONLY.
 2. EACH TERMINAL BOX IS UNIQUE AND MAY HAVE RECMTS THAT VARY FROM THOSE DEPICTED ABOVE.
 3. INCLUDE LOGIC TO OPERATE REHEAT VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE AT SETPOINT (I.E. 85°F MAX AT -2°F AND GREATER DEVIATION FROM SETPOINT).
 4. REFER TO EQUIPMENT SCHEDULES FOR INITIAL AIR DELIVERY (CFM) SETTINGS.
- THE SPACE MOUNTED TEMPERATURE SENSOR SHALL INCORPORATE A WARMER/COLER ADJUSTMENT ALLOWING ZONE OCCUPANTS TO BIAS THE SPACE TEMPERATURE SETPOINT BY A FIXED AMOUNT IN EITHER DIRECTION.
- FEATURES -
1. COOPERATION WITH NIGHT VENT COOLING, MORNING WARMUP, AND DOV LOGIC WHERE SPECIFIED IN RESPECTIVE AHU SEQUENCES.
 2. SPACE TEMPERATURE SHALL BE TRENDED HOURLY.
 3. GENERATE AN ALARM SHOULD DISCHARGE AIR TEMPERATURE STRAY FROM DISCHARGE AIR TEMPERATURE SETPOINT BY 5 DEG OR MORE.
 4. HOURLY TREND ITEMS INDICATED IN THE POINTS LIST TO BE TRENDED. STORE DATA FOR 1 YEAR PRIOR TO PURGING.

SEQUENCE OF CONTROL:

DESCRIPTION - THE NEW SYSTEMS CONSIST OF A PRESSURE INDEPENDENT VARIABLE AIR VOLUME BOX COMPLETE WITH MOTORIZED DAMPER, HOT WATER REHEAT COIL, FLOATING POINT OR PROPORTIONAL CONTROL VALVE, AND AIR FLOW PRESSURE TRANSDUCER.

SCHEDULING - OCCUPIED/UNOCCUPIED SCHEDULING APPLIES TO THESE SYSTEMS. SCHEDULES TO BE DETERMINED BY OWNER AND SHALL BE AVAILABLE THROUGH THE OPERATOR WORKSTATION INTERFACE.

SCHEDULING CONTROLS: SPACE SETPOINT TEMPERATURE. DURING OCCUPIED MODE, TERMINAL UNIT SHALL MAINTAIN SPACE TEMPERATURE AT SETPOINT DICTATED BY SPACE MOUNTED THERMOSTAT (I.E. 68-72° HEATING, 76-80°F COOLING). DURING UNOCCUPIED MODE, TERMINAL UNIT SHALL MAINTAIN SPACE TEMPERATURE AT SETBACK TEMPERATURE SETPOINT (I.E. 60°F HEATING, N/A COOLING).

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TIMED OVERRIDE - SHOULD THE TIMED OVERRIDE BE SWITCHED TO OCCUPIED DURING UNOCCUPIED MODE, OCCUPIED MODE OPERATION SHALL APPLY FOR THE TIMED OCCUPANCY DURATION.

KITCHEN HOOD VENTILATION MODE: WHEN KITCHEN EXHAUST HOOD IS ACTIVATED, VAV WILL BE OVERRIDDEN TO OCCUPIED MODE AND MAX DESIGN CFM. WHEN KITCHEN EXHAUST IS OFF, VAV WILL RETURN TO NORMAL OPERATION.

CONTROL - THE AIRFLOW PRESSURE TRANSDUCER SHALL INDICATE TO THE UNIT MOUNTED DDC CONTROLLER MEASURED AIRFLOW. THE DDC CONTROLLER SHALL MODULATE THE VAV BOX DAMPER TO MAINTAIN AIRFLOW AT SETPOINT. AIRFLOW SETPOINT AND REHEAT VALVE SHALL BE MODULATED BASED ON SPACE TEMPERATURE DEVIATION FROM SETPOINT PER THE SAMPLE RESET SCHEDULES BELOW INDICATING DEADBAND, HEATING AND COOLING RAMP-UP RANGES, AND MINIMUM AIRFLOWS.

WHEN KITCHEN VENTILATION MODE IS ACTIVATED, THE DDC CONTROLLER SHALL DRIVE THE AIRFLOW TO CONSTANT VOLUME AT MAXIMUM CFM, AND MODULATE THE REHEAT VALVE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

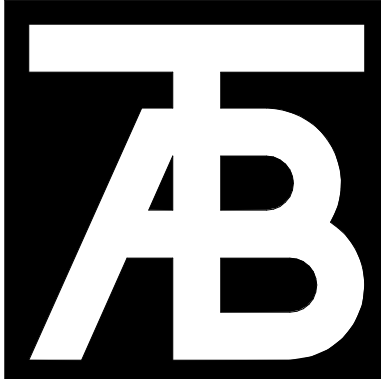
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- THE SPACE MOUNTED TEMPERATURE SENSOR SHALL INCORPORATE A WARMER/COLER ADJUSTMENT ALLOWING ZONE OCCUPANTS TO BIAS THE SPACE TEMPERATURE SETPOINT BY A FIXED AMOUNT IN EITHER DIRECTION.
- FEATURES -
1. COOPERATION WITH NIGHT VENT COOLING, MORNING WARMUP, AND DOV LOGIC WHERE SPECIFIED IN RESPECTIVE AHU SEQUENCES.
 2. SPACE TEMPERATURE SHALL BE TRENDED HOURLY.
 3. GENERATE AN ALARM SHOULD DISCHARGE AIR TEMPERATURE STRAY FROM DISCHARGE AIR TEMPERATURE SETPOINT BY 5 DEG OR MORE.
 4. HOURLY TREND ITEMS INDICATED IN THE POINTS LIST TO BE TRENDED. STORE DATA FOR 1 YEAR PRIOR TO PURGING.

ELECTRICAL SYSTEMS LEGEND		NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.
LIGHTING FIXTURE SYMBOLS		
	RECESSED FIXTURE	
	RECESSED WALL WASHER	
	RECESSED ADJUSTABLE ACCENT	
	RECESSED INGRADE UPLIGHT	
	SURFACED MOUNTED LINEAR TROFFER	
	RECESSED LINEAR TROFFER	
	RECESSED LINEAR WALL WASH/GRAZE	
	RECESSED INGRADE LINEAR UPLIGHT	
	RECESSED INGRADE LINEAR WALL WASH/GRAZE	
	LINEAR PENDANT MOUNTED LIGHT	
	STRIP LIGHT	
	SURFACE MOUNTED LED PANEL	
	SURFACE MOUNTED LIGHT	
	PENDANT MOUNTED LIGHT	
	WALL MOUNTED LIGHT	
	WALL MOUNTED DECORATIVE SCONCE	
	WALL MOUNTED ADJUSTABLE LIGHT	
	WALL MOUNTED UPLIGHT	
	WALL MOUNTED READING LIGHT	
	WALL MOUNTED SWING ARM LIGHT	
	WALL MOUNTED LINEAR LIGHT	
	CEILING/PENDANT MOUNTED TRACK WITH ADJUSTABLE TRACK HEAD	
	LINEAR TAPE/LIGHT OR COVE LIGHT	
	LINEAR GLOSSY ROD FIXTURE	
	LINEAR LIGHTING (VERTICAL)	
	RECESSED STEP LIGHT	
	MONO-POINT LIGHTING FIXTURE	
	MONO-POINT STAKE MOUNT ACCENT	
	TABLE LAMP	
	FLOOR LAMP	
	CEILING MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN	
	WALL MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN	
	WALL MOUNTED COMBO EXIT SIGN / EGRESS LIGHT	
	EMERGENCY LIGHTS	
	EXTERIOR POLE MOUNTED LIGHT	
	EXTERIOR POST (BOLLARD) MOUNTED LIGHT	
	FIXTURE WITH EMERGENCY BACKUP OR ON EM CIRCUIT	
LIGHTING CONTROL SYMBOLS		
	WALL MOUNTED SWITCH	
	THREE-WAY SWITCH	
	FOUR-WAY SWITCH	
	DOOR JAMB SWITCH	
	KEY SWITCH	
	DIMMER SWITCH	
	WALL MOUNTED DEVICE	
	ROOM CONTROLLER	
	PLUG LOAD CONTROLLER	
	OCCUPANCY/VACANCY PROGRAMMED SENSOR - CEILING MOUNTED	
	DAYLIGHT PHOTO SENSOR	
LIGHTING DRAWING SYMBOLS		
	ALIGNMENT LINE	
	CENTER LINE DESIGNATION	
	DAYLIGHT ZONE	
NOTE: SEE CONTROLS SCHEDULE FOR FURTHER SPECIFICATION INFORMATION		
POWER SYMBOLS		
	SINGLE RECEPTACLE	
	DUPLEX RECEPTACLE	
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	
	DOUBLE DUPLEX RECEPTACLE	
	GFCI DUPLEX RECEPTACLE	
	DUPLEX RECEPTACLE, HALF SWITCHED	
	ISOLATED GROUND DUPLEX RECEPTACLE	
	MULTI-OUTLET PLUG STRIP	
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE	
	FLUSH FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE	
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE, HALF SWITCHED	
	WALL MOUNTED SPECIAL OUTLET AS NOTED	
	SPECIAL OUTLET AS NOTED	
	JUNCTION BOX	
	WALL MOUNTED JUNCTION BOX	
	FLOOR MOUNTED JUNCTION BOX	
	MECHANICAL EQUIPMENT POWER CONNECTION	
	TIMER SWITCH	
	FUSED DISCONNECT	
	NON FUSED DISCONNECT	
	MOTOR STARTER	
	ENCLOSED CIRCUIT BREAKER	
	PULL BOX	
	PUSH BUTTON	
	TIME CLOCK	
	PHOTO-CELL	
	TRANSFORMER	
	PANELBOARD OR LOADCENTER	
	CONTACTOR	
	ELECTRIC MOTOR	
	METER	
	THERMOSTAT	
	AUTOMATIC TRANSFER SWITCH	
	CIRCUIT HOMERUN	
	CONDUIT RUN	
	CONDUIT RUN BELOW GRADE	
	CONDUIT UP	
	CONDUIT DOWN	
	SWITCH	
	THERMAL OVERLOAD SWITCH	
	VARIABLE SPEED SWITCH	
	KEY SWITCH	
ONE-LINE DIAGRAM SYMBOLS		
	DISCONNECT SWITCH	
	FUSE	
	CIRCUIT BREAKER	
	CURRENT TRANSFORMER	
	POTENTIAL TRANSFORMER	
	METER	
	VOLT-METER	
	AMP-METER	
	SURGE PROTECTION DEVICE	
	SELECTOR SWITCH	
	GROUND FAULT PROTECTION	
	SHUNT TRIP	
	NORMALLY OPEN CONTACT	
	NORMALLY CLOSED CONTACT	
	GROUND	
	COLD WATER GROUND CONNECTION	
	BUILDING STEEL GROUND CONNECTION	
ABBREVIATIONS		
AFC	ABOVE FINISHED CEILING	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AUTHORITY HAVING JURISDICTION	
AL	ALUMINUM	
AP	ACCESS POINT	
AWG	AMERICAN WIRE GAUGE	
BAS	BUILDING AUTOMATION SYSTEM	
BFG	BELOW FINISH GRADE	
BMS	BUILDING MANAGEMENT SYSTEM	
C	CONDUIT	
CATV	COMMUNITY (CABLE) ANTENNA TELEVISION SYSTEM	
CCTV	CLOSED CIRCUIT TELEVISION	
CKT	CIRCUIT	
CPU	CENTRAL PROCESSING UNIT	
CT	CURRENT TRANSFORMER	
DISP	GARBAGE DISPOSAL	
DW	DISHWASHER	
(E)	EXISTING	
EM	EMERGENCY	
EVC	ELECTRIC WATER COOLER	
FA	FIRE ALARM	
FACP	FIRE ALARM CONTROL PANEL	
FBO	FURNISHED BY OTHERS	
GC	GENERAL CONTRACTOR	
GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GRD	GROUND	
IAW	IN ACCORDANCE WITH	
IC	INTERMEDIATE CROSS-CONNECT	
IDF	INTERMEDIATE DISTRIBUTION FRAME	
IG	ISOLATED GROUND	
IR	INFRARED	
LAN	LOCAL AREA NETWORK	
MDF	MAIN DISTRIBUTION FRAME	
(N)	NEW	
NIC	NOT IN CONTRACT	
NL	NIGHT LIGHT	
NTS	NOT TO SCALE	
OC	ON CENTER	
PA	PUBLIC ADDRESS	
REF	REFRIGERATOR	
SPD	SURGE PROTECTION DEVICE	
TTB	TELECOMMUNICATIONS TERMINAL BOARD	
TVTB	TELEVISION TERMINAL BOARD	
UG	UNDERGROUND	
UNO	UNLESS NOTED OTHERWISE	
V	VOLT	
W	WATT	
WAN	WIDE AREA NETWORK	
WAP	WIRELESS ACCESS POINT	
WLAN	WIRELESS LOCAL AREA NETWORK	
WP	WEATHERPROOF	
XP	EXPLOSIONPROOF	
+18"	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR (VERIFY W/ ARCH ELEVATIONS)	
NOTES:		
- LIGHT LINEWEIGHT INDICATES EXISTING.		
- HATCHED AREAS INDICATE DEMOLITION.		
- 'C' ADJACENT TO A DEVICE INDICATES MOUNTING ABOVE COUNTERTOP.		

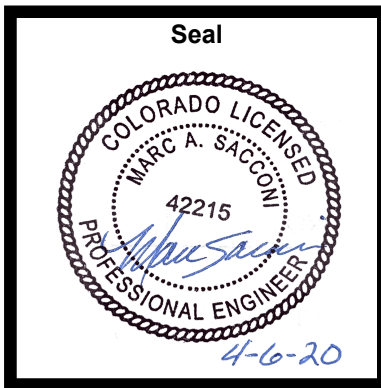
ELECTRICAL SHEET INDEX									
ISSUE LOG									
#		TITLE		Issued Graphic Check Mark	DD - 02-21-2020	CD PROGRESS SET - 03-16-2020	95% CD SET - 03-30-2020	PERMIT SET - 04-06-2020	
E0.0	ELEC COVER SHEET			✓	✓	✓	✓	✓	
E0.1	ELECTRICAL SCHEDULES			✓	✓	✓	✓	✓	
E0.2	ELECTRICAL SCHEDULES			✓	✓	✓	✓	✓	
E1.0	ELECTRICAL SITE PLAN			✓		✓	✓	✓	
ED2.1	FIRST LEVEL AREA A DEMO ELEC PLAN			✓	✓	✓	✓	✓	
ED2.2	6TH GRADE SCIENCE ROOMS DEMO ELECTRICAL PLAN			✓	✓	✓	✓	✓	
E2.1	FIRST LEVEL AREA A ELEC PLAN			✓	✓	✓	✓	✓	
E2.2	SCIENCE CLASSROOMS ELEC PLANS			✓	✓	✓	✓	✓	
E2.3	6TH GRADE SCIENCE ROOMS ELEC PLAN			✓	✓	✓	✓	✓	
E2.4	ROOF AREA A ELECTRICAL PLAN			✓	✓	✓	✓	✓	
E2.11	FIRST LEVEL AREA A LIGHTING PLAN			✓	✓	✓	✓	✓	
E3.1	ELECTRICAL DIAGRAMS			✓	✓	✓	✓	✓	
ISSUE LOG KEY:									
✓ ISSUED AS PART OF SET									
✓ NOT PART OF SET									
*** ISSUED FOR INFORMATION ONLY									

- GENERAL NOTES:
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATION OF OUTLETS AND EQUIPMENT SHALL BE AS APPROVED BY THE ARCHITECT. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.
 - EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
 - SYSTEM OUTAGES SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER - IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE (BEYOND BRANCH CIRCUITS) SHALL BE PERFORMED WITH THE OWNER'S MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.
 - SERVICE SHALL BE MAINTAINED TO EXISTING AREAS DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE PORTABLE GENERATORS, CABLES, OUTLETS, ETC. AS REQUIRED TO MAINTAIN CONTINUITY OF SERVICE. PLACEMENT OF SUCH PORTABLE EQUIPMENT SHALL BE SUBJECT TO OWNER APPROVAL.
 - REVIEW ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES AND ELECTRICAL REFERENCES ON ARCHITECTURAL DRAWINGS. COORDINATE EXACT COLOR, LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES AND DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
 - VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWING SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS.
 - WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
 - WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
 - SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK. FURNISH TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
 - CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
 - VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90 PERCENT COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO SUBMIT A COMPLETE CONSTRUCTION DRAWING SET TO THE ELECTRICAL UTILITY COMPANY WITHIN 10 DAYS OF AWARD OF CONTRACT. COORDINATE TIMELINE OF THEIR REVIEW, APPROVAL, CONSTRUCTION SCHEDULING AND INSTALLATION OF THE UTILITY TRANSFORMER WITH THE UTILITY COMPANY. NOTIFY OWNER OF ANY SCHEDULING CONFLICTS.
 - EXISTING SYSTEMS AND CONDITIONS SHOWN ON DRAWINGS FOR EXISTING BUILDINGS ARE TO BE NOTED "FOR GUIDANCE ONLY." THE ELECTRICAL CONTRACTOR IS TO FIELD CHECK ALL EXISTING CONDITIONS PRIOR TO BIDDING AND TO INCLUDE IN HIS BID AN ALLOWANCE FOR REMOVAL AND/OR RELOCATION OF EXISTING CONDUITS, WIRES, DEVICES, FIXTURES, OR OTHER EQUIPMENT AS INDICATED ON THE PLANS OR AS REQUIRED TO COORDINATE AND ADAPT NEW AND EXISTING ELECTRICAL SYSTEM TO ALL OTHER WORK AS REQUIRED.
 - ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL AT A MINIMUM BE THE SAME RATING AS THAT OF THE FLOOR OR WALL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - EXPPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL WITH OR AT RIGHT ANGLES TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE.
 - PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS. FOR ALL 20A CIRCUITS, EQUIPMENT GROUND CONDUCTOR SIZE SHALL MATCH PHASE CONDUCTOR SIZE. FOR CIRCUITS UPSIZED FOR VOLTAGE DROP INCREASE EQUIPMENT GROUNDING CONDUCTOR SIZE PER CODE.
 - PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO ARCHITECTURAL AND ELECTRICAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED.
 - PROVIDE ALL NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARMS DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE, WHERE IT IS NOT FEASIBLE TO REMOVE THE ABOVE, OUTLET SHALL BE ABANDONED, WIRE REMOVED, AND BLANK COVER PLATES PROVIDED.
 - THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
 - ALL (E) EQUIPMENT, LAMPS, BALLASTS, ETC. BEING REMOVED SHALL BE DISCARDED IN ACCORDANCE WITH APPLICABLE EPA REQUIREMENTS.
 - EXISTING LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. BEING REMOVED SHALL BE RETURNED TO THE OWNER, EXCEPT FOR THOSE ITEMS BEING RELOCATED.
 - VERIFY LOCATIONS FOR ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS FOR INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT. VARIATIONS IN FLOORING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILING AND LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
 - INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO INSTALLATION.
 - FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
 - UPON COMPLETION OF ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL CIRCUITS, OUTLETS, SWITCHES, LIGHTS, MOTORS, AND ANY OTHER ELECTRICAL ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH ALL NEW EQUIPMENT AND THAT PART OF THE SYSTEM SHALL THEN BE RETESTED. ALL SUCH REPLACEMENT OR REPAIR SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
 - AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN-UP ALL RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM THE SITE.
 - ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
 - WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES FOR LIGHT SWITCHES, AND 20 AMPERES FOR DUPLEX RECEPTACLES. THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT.
 - ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS, UNLESS NOTED OTHERWISE. CONNECTORS SHALL BE INSULATED THROAT TYPE. MINIMUM RACEWAY SIZE IS 3/4" ALL FEEDERS SHALL BE INSTALLED IN RACEWAY CONFIGURATIONS SHOWN ON ONE-LINE. BRANCH CIRCUITS 20A AND LARGER SHALL BE INSTALLED IN INDIVIDUAL RACEWAYS. BRANCH CIRCUITS 20A AND SMALLER MAY BE GROUPED INTO RACEWAYS AS TO NOT EXCEED 6 CURRENT-CARRYING 75-DEGREE CONDUCTORS, OR 9 CURRENT-CARRYING 90-DEGREE CONDUCTORS, IN A SINGLE RACEWAY. METAL CLAD CABLE IS PERMITTED.
 - ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 20LB NYLON PULL STRING OR EQUAL, AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
 - WIRE SHALL BE COPPER, MINIMUM 90 DEGREE CELSIUS RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREE CELSIUS AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
 - PROVIDE NEW UPDATED PANELBOARD DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT. SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
 - PANEL DIRECTORIES SHALL BE REMOVABLE. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
 - FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING EQUIPMENT SHALL BE SEAL, TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
 - REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL ROUGH-IN REQUIREMENTS NOT INDICATED WITHIN THIS SERIES. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FOOD SERVICE ROUGH-IN WITH EQUIPMENT INSTALLER PRIOR TO WORK.
 - ALL REMOTE POWER SUPPLIES FOR LIGHTING SHALL BE LOCATED WHERE ACCESSIBLE AND CONCEALED FROM PUBLIC VIEW. LABEL POWER SUPPLY WITH CIRCUIT, LOAD AND SERVED, AND ROOM WHERE LOAD IS SERVED. WHERE APPLICABLE AND/OR INDICATED ON DRAWINGS, LOCATE REMOTE EQUIPMENT ON WALL AREA ABOVE DOORWAYS FOR CONSISTENCY IN FACILITY MANAGEMENT.
 - GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
 - SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.

MECHANICAL EQUIPMENT WIRING AND CONNECTIONS				
	ITEM	FURNISHED UNDER	SET IN PLACE OR MTD. UNDER	WIRED/ CONNECTED UNDER
1	EQUIPMENT MOTORS AND THERMAL OVERLOADS, RESISTANCE HEATERS	MD	MD	ED
2	VFDs, MOTOR CONTROLLERS, MAGNETIC STARTERS, REDUCED VOLTAGE STARTERS AND OVERLOAD RELAYS	MD	ED(a)	ED
3	DISCONNECT SWITCHES (FUSED OR NON-FUSED), HP RATED SWITCHES, THERMAL OVERLOAD SWITCHES AND FUSES AND MANUAL OPERATING SWITCHES.	ED(a)	ED(a)	ED
4	PUSHBUTTON STATIONS, PILOT LIGHTS, MULTI-SPEED SWITCHES, FLOAT SWITCHES, THERMOSTATS, CONTROL RELAYS, TIMECLOCKS, CONTROL TRANSFORMERS, CONTROL PANELS, MOTOR VALVES, DAMPER ACTUATORS, SOLENOID VALVES, EP AND PE SWITCHES AND INTERLOCKS	MD	MD	MD(b)
5	120 VOLT POWER FOR BAS PANELS, FIRE PROTECTION AND BOILER CONTROLS	ED	ED	ED
6	FIRE/SMOKE DAMPERS AND ELEVATOR VENT DAMPERS	MD	MD	ED(c)
MD = MECHANICAL DIVISION				
ED = ELECTRICAL DIVISION				
NOTES:				
(a)	IF FURNISHED AS PART OF FACTORY-WIRED EQUIPMENT, THEN WIRING AND CONNECTIONS ONLY BY ED			
(b)	IF ANY OF THESE DEVICES CARRY THE FULL LOAD CURRENT TO ANY MOTOR THEY SHALL BE CONNECTED BY ED. CONTROL DEVICES CARRYING FULL LOAD CURRENT FURNISHED BY MD AND WIRED BY ED SHALL BE LOCATED AT THE DEVICE BEING CONTROLLED, UNLESS SHOWN ON DRAWINGS OR MUTUAL AGREEMENT IS MADE BETWEEN THE CONTRACTORS WITH NO CHANGE IN THE CONTRACT PRICE.			
(c)	WIRING FROM ALARM CONTACTS TO ALARM SYSTEM BY ED; ALL CONTROL FUNCTION WIRING BY MD. DUCT DETECTORS FURNISHED BY ED, SET IN PLACE BY MD.			
GENERAL NOTES: THE ABOVE LIST DOES NOT ATTEMPT TO INCLUDE ALL COMPONENTS. ALL ITEMS NECESSARY FOR A COMPLETE SYSTEM SHALL BE INCLUDED IN THE BASE CONTRACT.				



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Steamboat Springs Middle School
39610 Amethyst Drive
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Revisions:		
No	Description	Date

Issue Dates:
04.06.2020
PERMIT SET

Sheet Title:
ELEC COVER SHEET

Project No:
10183.00

Sheet No:
E0.0



LUMINAIRE SCHEDULE													
GENERAL NOTES:													
BOF = BOTTOM OF FIXTURE, RFD = RECESSED FIXTURE DEPTH, OFD = OVERALL FIXTURE DEPTH, OFH = OVERALL FIXTURE HEIGHT, TOP = TOP OF POLE, AFF = ABOVE FINISHED FLOOR.													
A. THE LUMINAIRE SCHEDULE CAN NOT BE USED INDEPENDENTLY OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN LUMINAIRE COSTS. THE INDIVIDUAL ESTABLISHING LUMINAIRE COSTS SHALL NOT QUOTE PRICING WITHOUT FIRST SEEING APPLICABLE ELECTRICAL DRAWINGS AND ELECTRICAL DIVISION SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY DRAWINGS AND SPECIFICATIONS TO THE INDIVIDUAL QUOTING LUMINAIRE PRICING.													
B. REFER TO DRAWINGS FOR FIXTURES REQUIRING EMERGENCY BATTERY BACKUP OPTION (SHOWN BY HATCH INVERTER SYMBOL). MINIMUM LIGHT OUTPUT FOR EM BALLAST SHALL BE 600 LUMENS. BATTERY SHALL OPERATE FOR A MINIMUM OF 90 MINUTES.													
C. INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER OPERATION OF ALL EMERGENCY LIGHTING PRIOR TO JOB COMPLETION.													
D. MINIMUM CRI FOR FRONT OF HOUSE LIGHT FIXTURES SHALL BE 80.													
E. ALL FINISHES TO BE REVIEWED AND VERIFIED BY ARCHITECT PRIOR TO PURCHASE.													
F. PROVIDE ALL PARTS, PIECES, AND COMPONENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM. ELECTRICAL CONTRACTOR TO CONFIRM ALL MOUNTING ACCESSORIES PRIOR TO ORDER.													
G. CONFIRM DIMMING PROTOCOL WITH FINAL CONTROLS SPECIFICATIONS AND SHOP DRAWINGS. ALL FRONT OF HOUSE LIGHT FIXTURES TO BE PROVIDED WITH 1% MINIMUM DIMMING RANGE. ELECTRICAL CONTRACTOR TO VERIFY PRIOR TO ORDER.													
H. ELECTRICAL CONTRACTOR TO COORDINATE ALL ACCESS PANELS, DRIVER LOCATIONS, AND TRANSFORMER LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.													
I. ELECTRICAL CONTRACTOR TO CONFIRM FIXTURE COMPATIBILITY WITH CEILING TYPE AND CEILING THICKNESS PRIOR TO FINAL FIXTURE ORDER.													
J. FOR ALL LINEAR FIXTURES, ELECTRICAL CONTRACTOR TO VERIFY EXACT FIXTURE LENGTHS PER FIELD MEASUREMENTS OR MILLWORK SHOP DRAWINGS, AS APPLICABLE.													
K. ELECTRICAL CONTRACTOR TO VERIFY FEED AND LENGTH OF LEAD WIRES REQUIRED AND REVISE AS NECESSARY.													
L. PROVIDE EXIT SIGN MOUNTING, FACES AND CHEVRONS PER PLANS.													
M. FOR ALL DECORATIVE LIGHTING, REFER TO INTERIOR DESIGN DOCUMENTATION FOR FIXTURE MOUNTING HEIGHT.													
SPECIFIC NOTES:													
1. MOUNT PER PLANS. PENDANT MOUNT AS REQUIRED BELOW DUCTWORK FOR MAXIMUM ILLUMINATION OF ROOM SURFACES.]													
2. REMOTE DRIVER/TRANSFORMER REQUIRED. DRIVER/TRANSFORMER TO BE LOCATED IN ACCESSIBLE, VENTILATED LOCATION.													
3. SEE PLANS FOR CIRCUITING AND [EMERGENCY INVERTER] INFORMATION.													
4. COORDINATE AMING IN FIELD WITH [ARCHITECT AND/OR LIGHTING DESIGNER].													
5. [ELECTRICAL CONTRACTOR TO REVIEW FIXTURE WEIGHT AND PROVIDE J-BOX SUITABLE FOR FIXTURE GREATER THAN 50LBS. AS REQUIRED.]													
6. [NO MORE THAN 30 TRACK HEADS MAY BE MOUNTED PER TRACK PER CIRCUIT.]													
TYPE	DESCRIPTION	MOUNTING	QTY	TYPE	LAMP / LIGHT SOURCE	CRI	CCT	INPUT WATTS	DIMMING	VOLTAGE	MANUFACTURER	CATALOG NUMBER	SPECIFIC NOTES
R1	2'x4' RECESSED VOLUMETRIC TROFFER, GASKETED	RECESSED	1	LED	6218 lm	80	3500	49	0	277	LITHONIA	20TL-4-60L-GZ10-LP835	-
R1E	2'x4' RECESSED VOLUMETRIC TROFFER, GASKETED	RECESSED	1	LED	6218 lm	80	3500	49	0	277	LITHONIA	20TL-4-60L-GZ10-LP835	-
R2	2'x4' RECESSED VOLUMETRIC TROFFER, GRID	RECESSED	1	LED	12000 lm	82	3500	100	0	277	LITHONIA	2BLT4 120L AD5M E21 LP835	-
R2E	2'x4' RECESSED VOLUMETRIC TROFFER, GRID	RECESSED	1	LED	12000 lm	82	3500	100	0	277	LITHONIA	2BLT4 120L AD5M E21 LP835	-
R3	2'x2' RECESSED VOLUMETRIC TROFFED, GRID	RECESSED	1	LED	3332 lm	80	3500	27	0	277	LITHONIA	2BLT2 33L AD5M E21 LP835	-
R3E	2'x2' RECESSED VOLUMETRIC TROFFED, GRID	RECESSED	1	LED	3332 lm	80	3500	27	0	277	LITHONIA	2BLT2 33L AD5M E21 LP835	-
ST	1'x4' LED FLAT PANEL	SURFACE	1	LED	3300 lm	80	3500	28	0	277	LITHONIA	OPANEL 1'x4 33LM 35 K IM4	-
X1	THERMOPLASTIC EXIT SIGN, BATTERY POWERED WITH NICKLE CADMIUM BATTERY, WHITE FINISH WITH GREEN LETTERS	SURFACE	1	LED	0	0	0	1	NA	277	LITHONIA	LQM S W 3 G 120/277 EL N	-
ZW1E	EXTERIOR LED WALL PACK	SURFACE	1	LED	4300 lm	75	5000	44	NA	277	LITHONIA	OLW-31	-

LIGHTING CONTROL DEVICES				
TYPE	DESCRIPTION	PROGRAMMING REQUIREMENTS	COMMENTS	NOTES
STAND ALONE SWITCH DEVICES				
	LINE VOLTAGE TOGGLE SWITCH, SINGLE POLE	MANUAL ON, MANUAL OFF		
AUTOMATIC STAND ALONE CONTROL DEVICES				
SO1	CEILING MOUNTED, DUAL TECH OCCUPANCY SENSOR	AUTOMATIC ON, AUTOMATIC OFF AFTER 15 MINUTES OF UNOCCUPIED SPACE. LOCAL ON/OFF OVERRIDE BUTTON (SEE DEVICES BELOW)	EC SHALL COORDINATE MOUNTING SUCH THAT SENSOR IS NOT WITHIN 6' OF AIR RETURN SYSTEMS. MANUAL ON SWITCHES TO BE LOW VOLTAGE AND COMPATIBLE WITH CEILING SENSOR.	1
SK1	KEYED LOW VOLTAGE PUSH BUTTON WALL STATION, TWO BUTTON	KEYED, MANUAL ON OPERATION WHEN KEY ENGAGED. AUTOMATIC OFF VIA ROOM SENSOR (SEE ADDITIONAL DEVICES ABOVE)		
ROOM CONTROLLER SYSTEMS				
RO1	ROOM CONTROLLER CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECH, LOW VOLTAGE	MANUAL ON VIA LOCAL PUSH BUTTON, OFF AFTER 15 MINUTES OF UNOCCUPIED SPACE	EC SHALL COORDINATE MOUNTING SUCH THAT SENSOR IS NOT WITHIN 6' OF AIR RETURN SYSTEMS.	1
RP1	ROOM CONTROLLER CLOSED LOOP DAYLIGHT SENSOR	LIGHT-LEVEL MONITORING RANGE: 10 TO 100 FC WITH AN ADJUSTMENT TO TURN-ON AND TURN-OFF LIGHTS AT FOOTCANDLE LEVELS WITHIN THAT RANGE. TIME DELAY: FIFTEEN SECOND MINIMUM TO PREVENT FALSE OPERATION. MAINTAIN 30 FC AT WORKING SURFACE. PROTOCOL MUST DIM LIGHTS CONTINUOUSLY TO AT LEAST 15% MINIMUM	AND A DIRECTIONAL LENS IN FRONT OF THE PHOTOCELL TO PREVENT FIXED LIGHT SOURCES FROM CAUSING UNINTENTIONAL SHUT-OFF. SENSOR SHALL NOT BE LOCATED IN CLOSE PROXIMITY TO INDIRECT LIGHTING OR WHERE SUBJECT TO VEILING REFLECTIONS FROM GLASS OR WATER SURFACES	1
RK1	ROOM CONTROLLER, TWO ZONE, MANUAL LOW VOLTAGE PUSH BUTTON KEYPAD WITH RAISE LOWER	MANUAL ON, SHALL BE COMPATIBLE FOR 1% SMOOTH DIMMING UNLESS OTHERWISE NOTED, 0-10V DIMMING		
RA	ROOM CONTROLLER DEVICE		PROVIDE QUANTITIES AS REQUIRED PER MANUFACTURER.	

GENERAL NOTES:
A. APPROVED STANDALONE LIGHTING CONTROLS TO BE PROVIDED BY ONE OF THE FOLLOWING PRE-APPROVED MANUFACTURERS:

a. LUTRON
b. WAYTSTOPPER
c. SENSOR SWITCH
d. LEVITON
e. NIGHT
f. CRESTRON
g. Eaton

B. ALL MANUALLY DIMMED LIGHTING LOADS SHALL BE CAPABLE OF DIMMING LIGHTS TO OFF SETTING. DIMMING COMPATIBILITY BETWEEN THE CONTROLS AND LIGHT FIXTURES SHALL BE COORDINATED BY THE EC TO ENSURE THAT LIGHTING IS ABLE TO DIM, WITH NO VISIBLE FLICKER, TO THE LEVEL NOTED ON THE LIGHTING FIXTURE SCHEDULE.

C. FINAL OCCUPANCY AND DAYLIGHT SENSOR LOCATIONS SHALL BE PROVIDED BY MANUFACTURER AND LOCATED PER APPROVED SHOP DRAWINGS. LOCATIONS INDICATED IN THESE DRAWING SHALL BE REVIEWED AND ALTERED AS NECESSARY FOR CORRECT OPERATION BY MANUFACTURER. IF OPERATION OF SENSOR DOES NOT MEET THE INTENT OUTLINED IN THESE DOCUMENTS, THE MANUFACTURER REPRESENTATIVE SHALL PROVIDE FIELD RECTIFICATION SERVICES AS NECESSARY IN ORDER TO RECONFIGURE SYSTEM TO MEET THE DESIGN INTENT.

D. ALL DEVICE FINISHES TO BE REVIEWED AND APPROVED BY ARCHITECT AND/OR INTERIOR DESIGNER PRIOR TO PURCHASE.

E. REFER TO DRAWINGS FOR SWITCH TYPE QUANTITIES AND LOCATIONS.

F. PROVIDE POWER PACHES AND ROOM CONTROLLERS AS NECESSARY.

G. PLANS WITHIN DRAWINGS ARE PROVIDED TO COMMUNICATE DESIGN INTENT. SYSTEM SHALL BE WIRED AND PROGRAMMED ACCORDING TO APPROVED SHOP DRAWINGS.

H. SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY BG BUILDINGWORKS PRIOR TO PURCHASE.

I. CONGREGATE ADJACENT DEVICES UNDER A SINGLE FACEPLATE. ACCOUNT FOR WATTAGE RESTRICTIONS WHERE REQUIRED.

J. ALL CALIBRATION DEVICES SHALL BE READILY ACCESSIBLE.

K. LIGHT LEVEL SETTINGS/PROGRAMMING SHALL BE REVIEWED AND ADJUSTED WITH OWNER SUPERVISION IN FIELD AFTER INSTALLATION AND PRIOR TO COMMISSIONING AS REQUIRED.

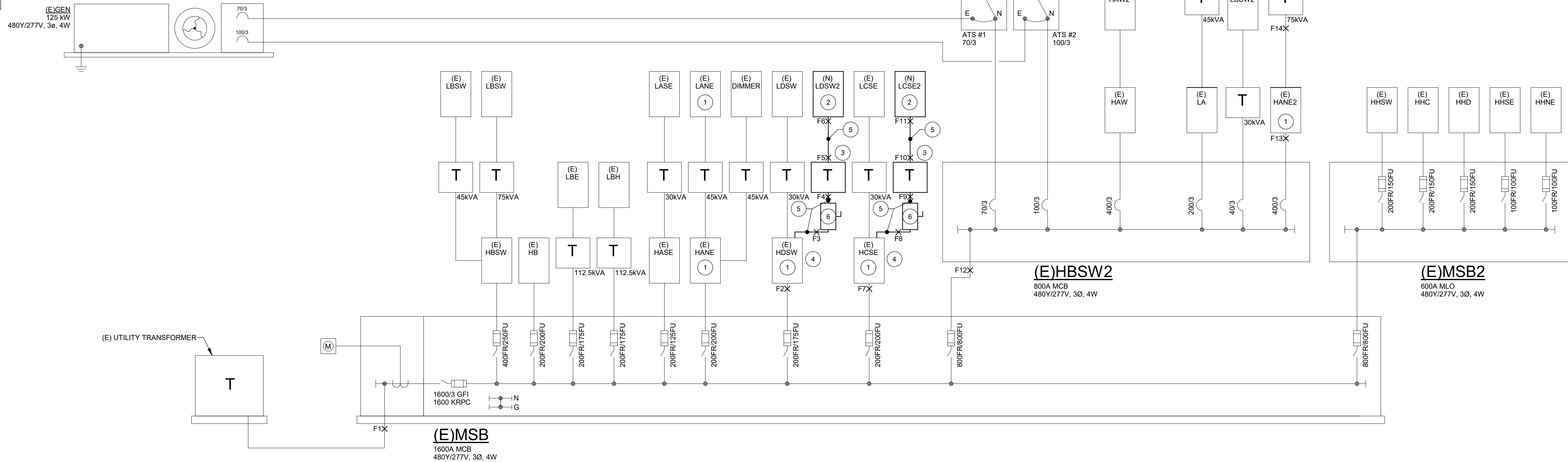
L. COMMISSIONING SHALL BE PROVIDED IN ACCORDANCE WITH SCHOOL DISTRICT REQUIREMENTS AND THE ECC.

M. REFER TO LOW VOLTAGE DEVICE SCHEDULE FOR INITIAL PROGRAM SETTINGS AND SCENE SELECTION.

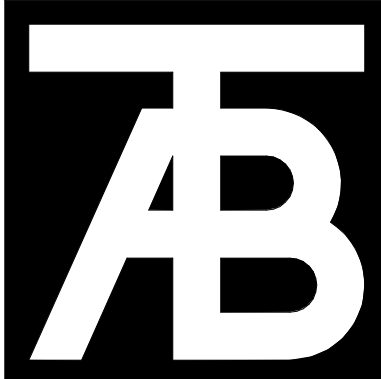
N. ALL AUTOMATIC SENSING DEVICES SHALL BE SELF-LEARNING TO MITIGATE NUISANCE TRIPPING.

O. PROVIDE CLEANING AND MAINTENANCE OVERRIDES PER THE REQUIREMENTS OF ECC. PROVIDE TWO HOUR OVERRIDE FOR KEYPAD DEVICES.

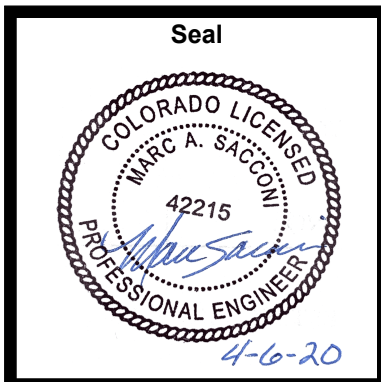
SPECIFIC NOTES:
1. MOUNT PER MANUFACTURER RECOMMENDATIONS TO ENSURE PROPER PERFORMANCE.



1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE



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Revisions:		
No	Description	Date

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04.06.2020
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Sheet Title:
**ELECTRICAL
SCHEDULES**

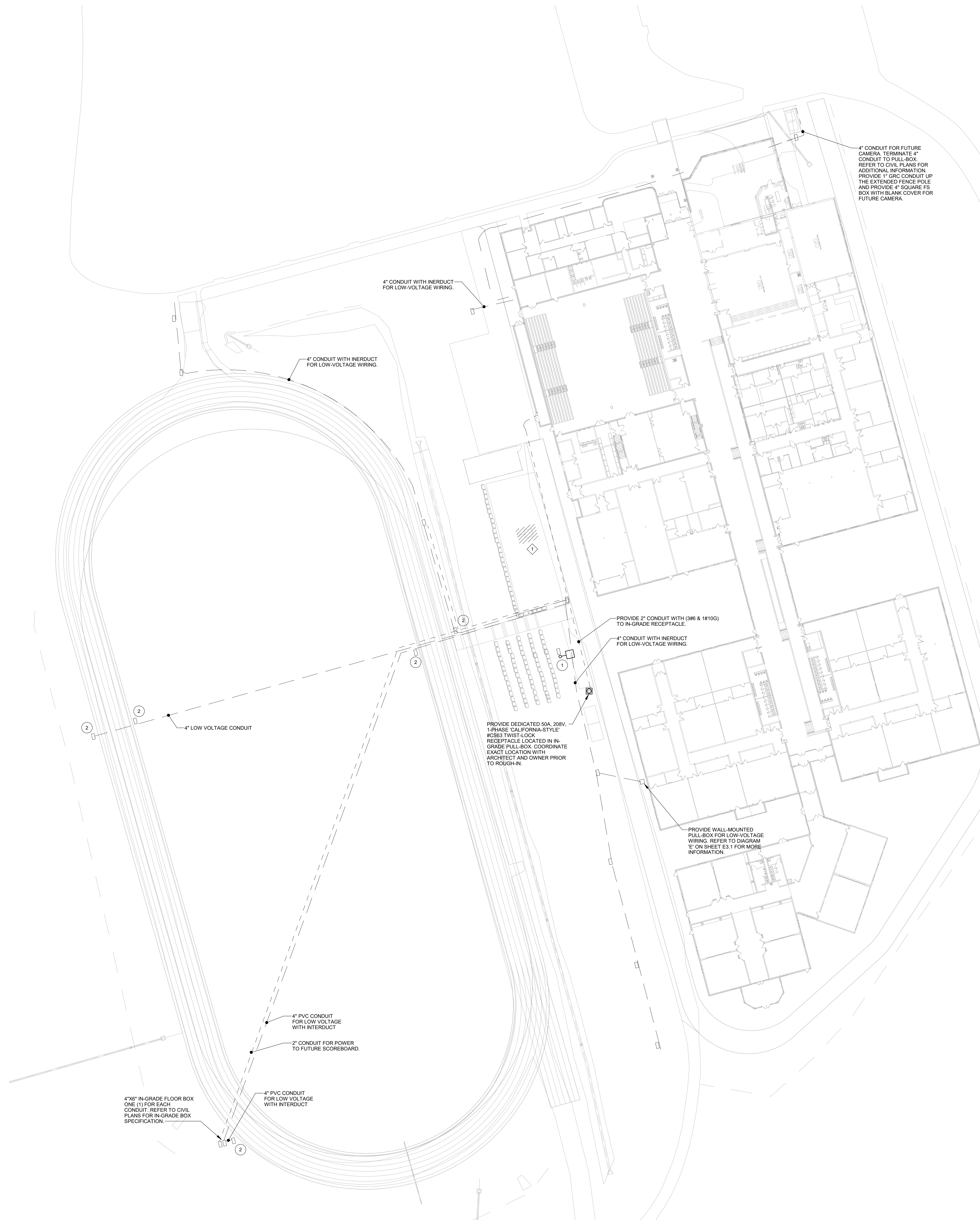
Project No:
10183.00

Sheet No:
E0.2

Branch Panel: LCSE2														
Location: SOUTHEAST IT ROOM					Volts: 120/208 Wye			A.I.C. Rating: 10,000						
Supply From: XFMR-LCSE2					Phases: 3			Bus Rating: 100A						
Mounting: Surface					Wires: 4			MLO or MCB: MCB						
Enclosure: Type 1								MCB Rating: 60 A						
NO.	LOAD DESCRIPTION	TYPE	POLE	TRIP	A	B	C	TRIP	POLE	TYPE	LOAD DESCRIPTION	NO.		
1	CEILING RCPT	R	1	20 A	360	360			20 A	1	R	CEILING RCPT	2	
3	SHUNT TRIP	--	--	--		0	0		--	--	SHUNT TRIP	4		
5	CEILING RCPT	R	1	20 A				360	360	20 A	1	R	CEILING RCPT	6
7	SHUNT TRIP	--	--	--		0	0		--	--	SHUNT TRIP	8		
9	CEILING RCPT	R	1	20 A		540	540			20 A	1	R	CEILING RCPT	10
11	SHUNT TRIP	--	--	--				0	0	--	--	SHUNT TRIP	12	
13	CEILING RCPT	R	1	20 A	360	0	0		20 A	1	--	Spare	14	
15	SHUNT TRIP	--	--	--					20 A	1	--	Spare	16	
17	CEILING RCPT	R	1	20 A				360	0	20 A	1	--	Spare	18
19	SHUNT TRIP	--	--	--		0	0		--	--	--	Spare	20	
21	CEILING RCPT	R	1	20 A				540	0		--	Spare	22	
23	SHUNT TRIP	--	--	--					0	0	--	Spare	24	
25	Space	--	--	--		0	0		--	--	--	Spare	26	
27	Space	--	--	--				0	0		--	Spare	28	
29	Space	--	--	--					0	0	--	Spare	30	
Total Load:					A	B	C							
Total Amps:					1080 VA	1620 VA	1680 VA							
					9 A	14 A	9 A							
LOAD CLASSIFICATION				FEEDER SUBTOTAL	DEMAND FACTOR		FEEDER TOTAL		PANEL TOTALS					
Lighting				0 VA	125%		0 VA		TOTAL LOAD: 3.8 kVA TOTAL CURRENT: 10 A					
Receptacles				3780 VA	Per NEC 220		3780 VA							
Motors				0 VA	Per NEC 430.24		0 VA							
Equipment				0 VA	100%		0 VA							
Appliances				0 VA	Per NEC 220.56		0 VA							
Notes:														

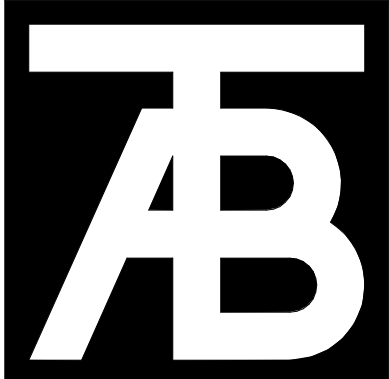
Branch Panel: LDSW2														
Location: SOUTHWEST IT...					Volts: 120/208 Wye				A.I.C. Rating: 10,000					
Supply From: XFMR-LDSW2					Phases: 3				Bus Rating 100A					
Mounting: Surface					Wires: 4				MLO or MCB: MCB					
Enclosure: Type 1									MCB Rating: 60 A					
NO.	LOAD DESCRIPTION	TYPE	POLE	TRIP	A	B	C	TRIP	POLE	TYPE	LOAD DESCRIPTION	NO.		
1	CEILING RCPT	R	1	20 A	360	360			20 A	1	R	CEILING RCPT	2	
3	SHUNT TRIP	--	--	--		0	0		--	--	SHUNT TRIP	4		
5	CEILING RCPT	R	1	20 A				360	360	20 A	1	R	CEILING RCPT	6
7	SHUNT TRIP	--	--	--		0	0		--	--	SHUNT TRIP	8		
9	CEILING RCPT	R	1	20 A				540	540	20 A	1	R	CEILING RCPT	10
11	SHUNT TRIP	--	--	--				0	0	--	--	SHUNT TRIP	12	
13	CEILING RCPT	R	1	20 A	360	0			20 A	1	--	Spare	14	
15	SHUNT TRIP	--	--	--					20 A	1	--	Spare	16	
17	CEILING RCPT	R	1	20 A				360	0	20 A	1	--	Spare	18
19	SHUNT TRIP	--	--	--		0	0		--	--	--	Spare	20	
21	CEILING RCPT	R	1	20 A				540	0		--	Spare	22	
23	SHUNT TRIP	--	--	--					0	0	--	Spare	24	
25	Space	--	--	--		0	0		--	--	--	Spare	26	
27	Space	--	--	--				0	0		--	Spare	28	
29	Space	--	--	--					0	0	--	Spare	30	
Total Load:					A	B	C							
Total Amps:					9 A	1620 VA	1620 VA							
LOAD CLASSIFICATION														
Feeder Subtotal					Demand Factor		Feeder Total		Panel Totals					
Lighting					125%		0 VA		TOTAL LOAD: 3.8 kVA TOTAL CURRENT: 10 A					
Receptacles					3780 VA		Per NEC 220						3780 VA	
Motors					0 VA		Per NEC 430.24						0 VA	
Equipment					0 VA		100%						0 VA	
Appliances					0 VA		Per NEC 220.56						0 VA	
Notes:														

PANEL: (E) LANE 2					VOLTAGE: 120/208V, 3PH, 4W					
LOCATION: STORAGE A108					MINIMUM BUS: 250					
MOUNTING: SURFACE					MAIN: 250/3 CB					
					MINIMUM AIC: EXISTING					
NO.	LOAD	TYPE	LOAD DESCRIPTION	BREAKER	BUS	BREAKER	LOAD DESCRIPTION	LOAD		
1	A	E	(E) LOAD	3	40	3	40	A	B	C
3	E	+	-	20	+	20	+	E	+	2
5	E	+	-	20	+	20	+	E	+	6
7	E	+	-	20	+	20	+	E	+	6
9	E	+	(E) LOAD	1	20	1	20	E	(E) LOAD	12
11	E	+	(E) LOAD	1	20	1	20	E	(E) LOAD	12
13	E	+	(E) LOAD	1	20	1	20	E	(E) LOAD	16
15	E	+	(E) LOAD	1	20	1	20	E	(E) LOAD	16
17	E	+	(E) LOAD	1	20	1	20	E	(E) LOAD	16
19	E	+	(E) LOAD	2	50	2	50	E	(E) LOAD	18
21	E	+	(E) LOAD	-	-	50	2	50	2	21/20 PANEL 'K'
23	E	+	(E) LOAD	2	50	2	50	E	21/20	21/20
25	E	+	(E) LOAD	-	-	20	3	20	3	22
27	E	+	(E) LOAD	2	30	2	30	E	3	24
29	E	+	(E) LOAD	-	-	20	3	E	3	28
31	540	R	(E) KITCHEN RCPT	1	20	1	20	R	CATERPILLAR TVS	1000
33	110	R	(E) KITCHEN HOSE	1	20	1	20	R	GARAGE DOORS	1000
35	900	R	(E) CATERPILLAR RCPT	1	20	1	20	R	1000	300
37	720	R	(E) CATERPILLAR RCPT	1	20	1	20	R	1000	348
39	100	R	(E) CATERPILLAR RCPT	1	20	1	20	R	1000	348
41				1	20	1	20	E	(E) LOAD	42
								GENERAL NOTES:		
LOAD TYPE								A		
PANEL TOTAL								B		
FEED THRU TOTAL								C		
SHUNTED TOTAL								D		
FEEDER SUBTOTAL								E		
DEMAND								F		
FEEDER TOTAL								G		
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1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

- NOTES:
1. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION AND IN GRADE PULL BOX SPECIFICATION.
- DEMO NOTES
1. REMOVE AND SALVAGE EXISTING LIGHT POLE FOR RELOCATION.
- FLAG NOTES:
1. RELOCATED EXISTING LIGHT POLE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 2. PROVIDE LINE ITEM PRICING FOR CAT6 CABLE TO PULL BOX.



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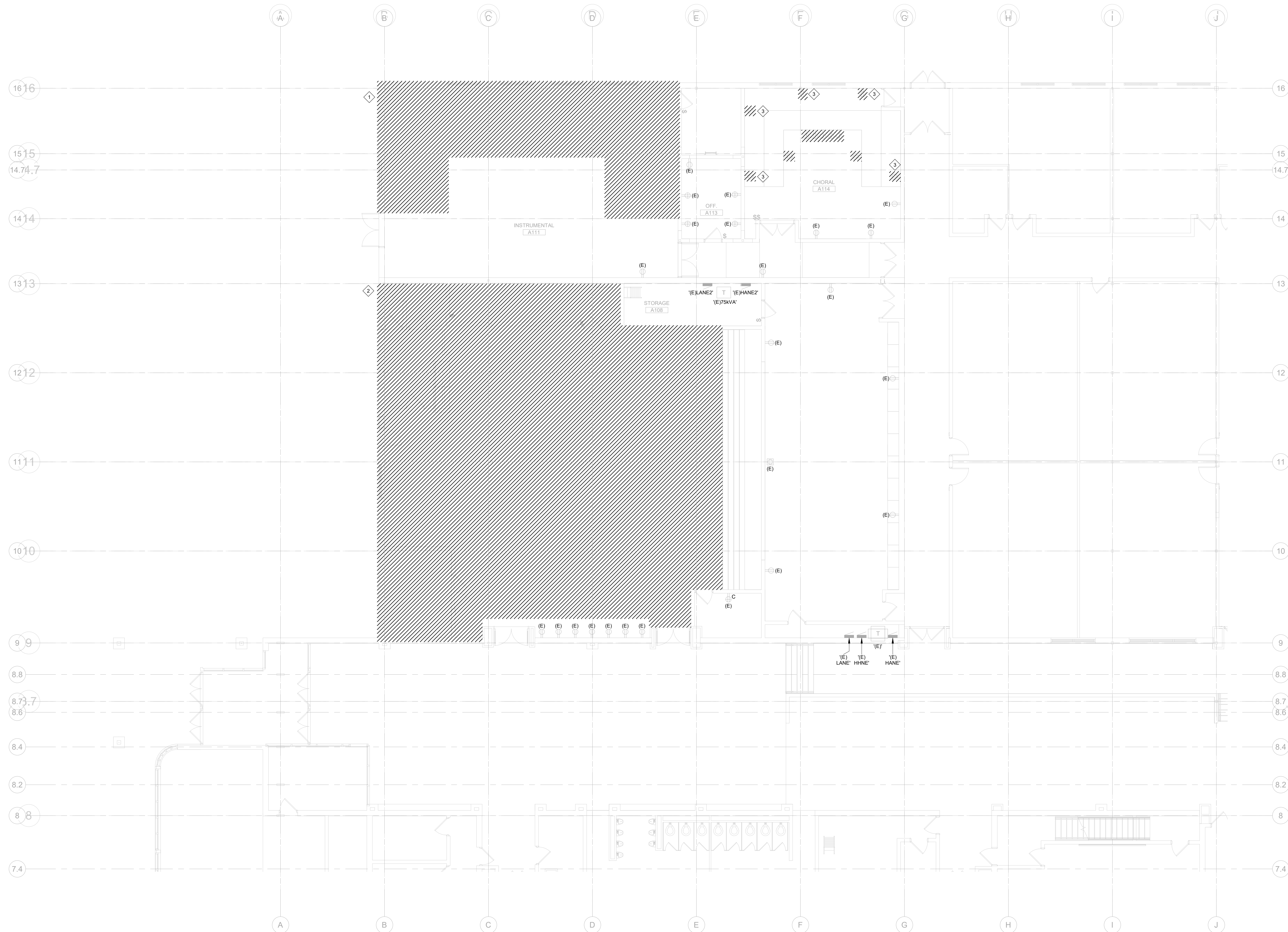
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Sheet Title:
**ELECTRICAL
SITE PLAN**

Project No:
10183.00

Sheet No:
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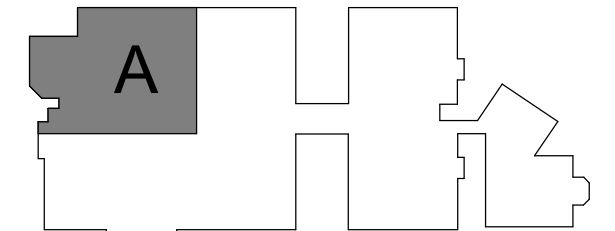


NOTES:

1. DEMOLITION PLAN INDICATES A DESIRED SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IN FIELD PRIOR TO START OF WORK.
2. CONDITIONS MAY EXIST WHERE (E) CABLING AND/OR EQUIPMENT IS INSTALLED WITHIN AN AREA OF DEMOLITION THAT IS INTENDED TO REMAIN IN ORDER TO KEEP SYSTEMS OUTSIDE OF THE AREA OF DEMOLITION IN OPERABLE CONDITION. CONTRACTOR SHALL PROVIDE APPROPRIATE PROTECTION AND EXERCISE CARE WHEN PERFORMING DEMOLITION AROUND SUCH CABLING AND EQUIPMENT.
3. ALL SYSTEMS LOCATED OUTSIDE THE AREA OF DEMOLITION ARE INTENDED TO REMAIN OPERABLE.
4. FOR ALL ITEMS TO BE DEMOLISHED REMOVE CIRCUIT BACK TO POINT OF CONNECTION. MAKE BRANCH CIRCUIT WITH REMAINING DEVICES CONTIGUOUS.
5. ELECTRICAL CONTRACTOR SHALL REMOVE ALL DEMOLISHED ITEMS FROM SITE UNLESS OWNER WISHES TO RETAIN. ITEMS REMOVED FROM SITE SHALL BE DISPOSED OF IN A LEGAL MANNER.
6. EVERY ATTEMPT WAS MADE TO LOCATE ALL ITEMS TO BE INCLUDED IN THE DEMOLITION SCOPE IN THIS OCCUPIED SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE A REASONABLE ALLOWANCE TO INCLUDE THE REMOVAL OF ITEMS NOT INDICATED ON THE ELECTRICAL DEMOLITION PLAN.

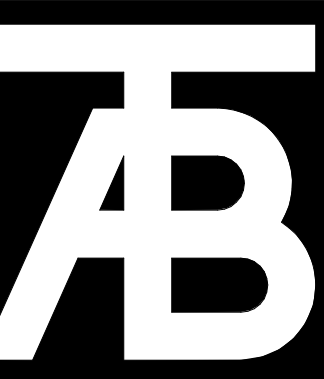
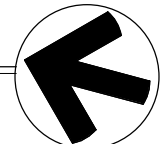
DEMO NOTES

1. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES IN EXISTING RISERS.
2. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL FIXTURES AND EQUIPMENT.
3. DISCONNECT AND REMOVE RECEPTACLE. STORE AND PROTECT TO BE RELOCATED IN SAME LOCATION AT 16" AFF.

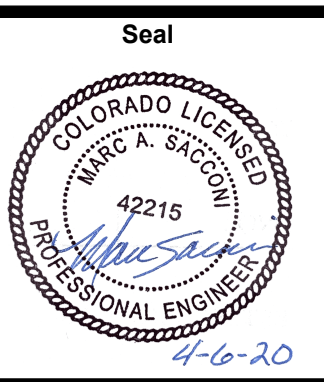


KEY PLAN

1 FIRST LEVEL AREA A DEMO ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



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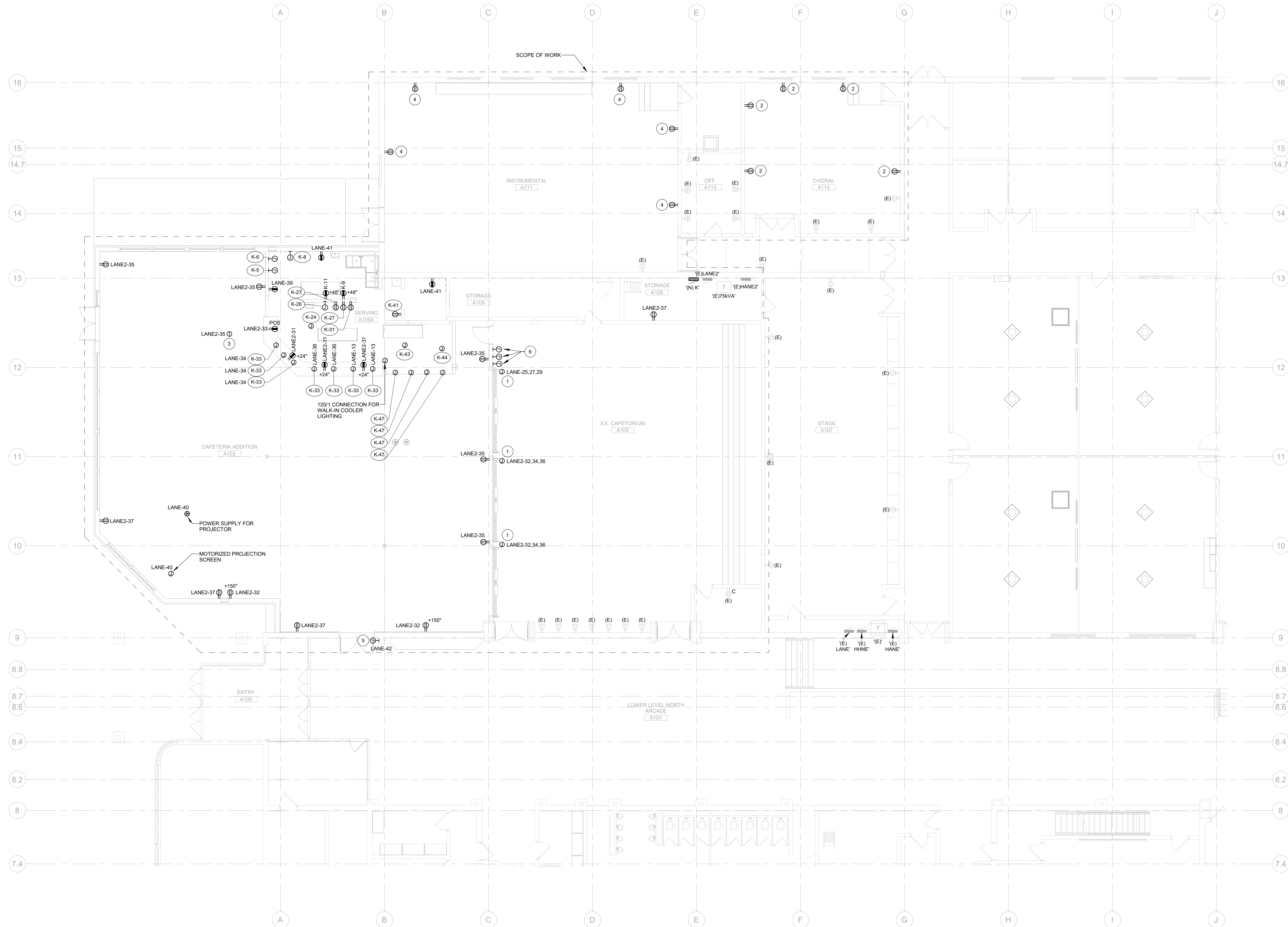
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Sheet Title:
**FIRST LEVEL
AREA A
DEMO ELEC
PLAN**

Project No:
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Sheet No:
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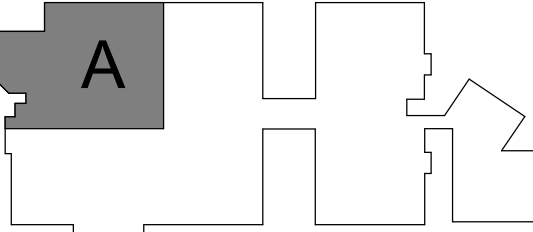


NOTES:

1. REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR FINAL RECEPTACLE AND DEVICE PLACEMENT. COORDINATE ALL RECEPTACLE MOUNTING LOCATIONS WITH FIXTURES, APPLIANCES, FURNITURE, CABINETRY, AND OTHER EQUIPMENT PRIOR TO ROUGH-IN.
2. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CIRCUIT, DISCONNECT, AND CONDUCTORS FOR MECHANICAL EQUIPMENT.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION OF ELECTRICAL EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ETC. EC SHALL BE RESPONSIBLE FOR COORDINATION AND THE ROUTING OF FEEDERS, AND BRANCH CIRCUITS.
4. COORDINATE POWER CONNECTIONS FOR OWNER PROVIDED EQUIPMENT AND APPLIANCES, AND ALL OTHER EQUIPMENT PROVIDED BY OTHER DIVISIONS WITH SUBMITTAL DATA CUT SHEETS, WIRING DIAGRAMS, AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. FIELD COORDINATE FINAL LOCATIONS OF EQUIPMENT AND POWER CONNECTIONS WITH GENERAL CONTRACTOR AND OTHER DIVISIONS/CONTRACTORS PRIOR TO ROUGH-IN.

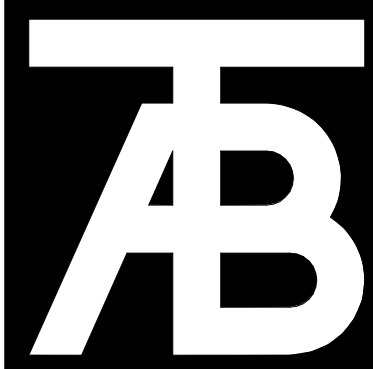
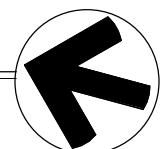
FLAG NOTES:

1. PROVIDE 3/4" 12, 14, 16, 18, 20, 24, 30, 36 TO NEW OVERHEAD GARAGE DOORS.
2. NEW LOCATION, AT 18" AFF, FOR STORED RECEPTACLE. REUSE EXISTING POWER CIRCUIT.
3. PROVIDE SIMPLEX RECEPTACLE FOR HUBBELL MAC12545020 PULL-DOWN RECEPTACLE OR EQUIVALENT. COORDINATE EXACT LOCATION OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN.
4. REUSE EXISTING POWER CIRCUIT FOR NEW RECEPTACLE.
5. PROVIDE (2#12, 1#120) 34" TO JUNCTION BOX FOR MAGNETIC DOOR HOLD.
6. PROVIDE 1" CONDUIT WITH PULL STRING FROM GARAGE DOOR MOTOR. COORDINATE CONTROL WITH REVIEWED MANUFACTURER SUBMITTAL BEFORE INSTALLATION.

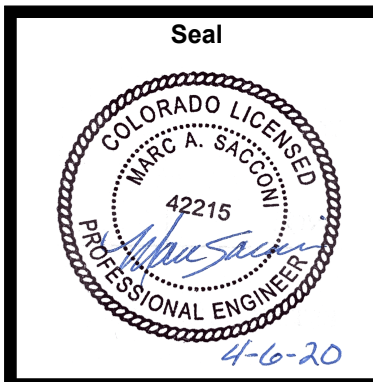


KEY PLAN

1 FIRST LEVEL AREA A ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



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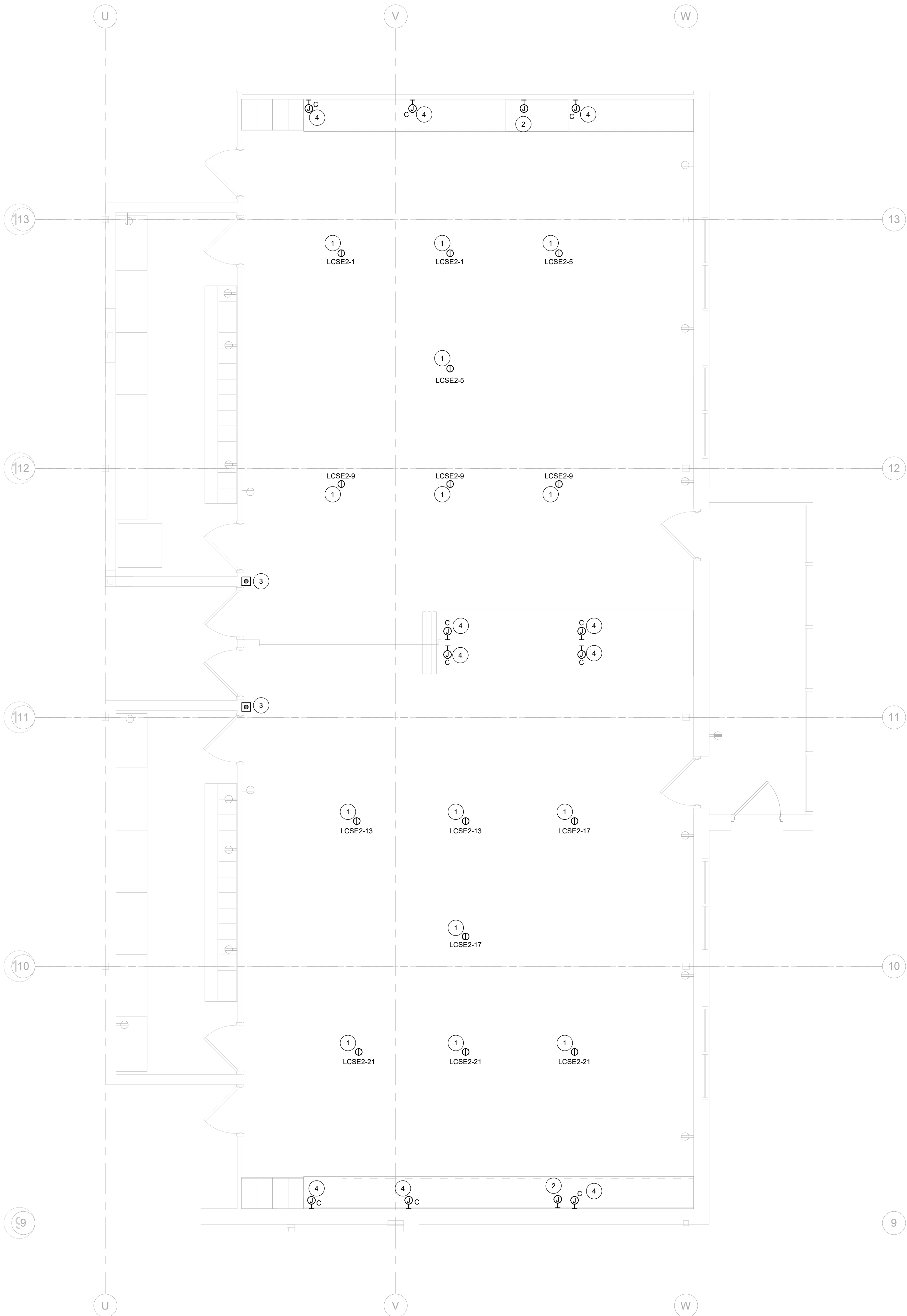
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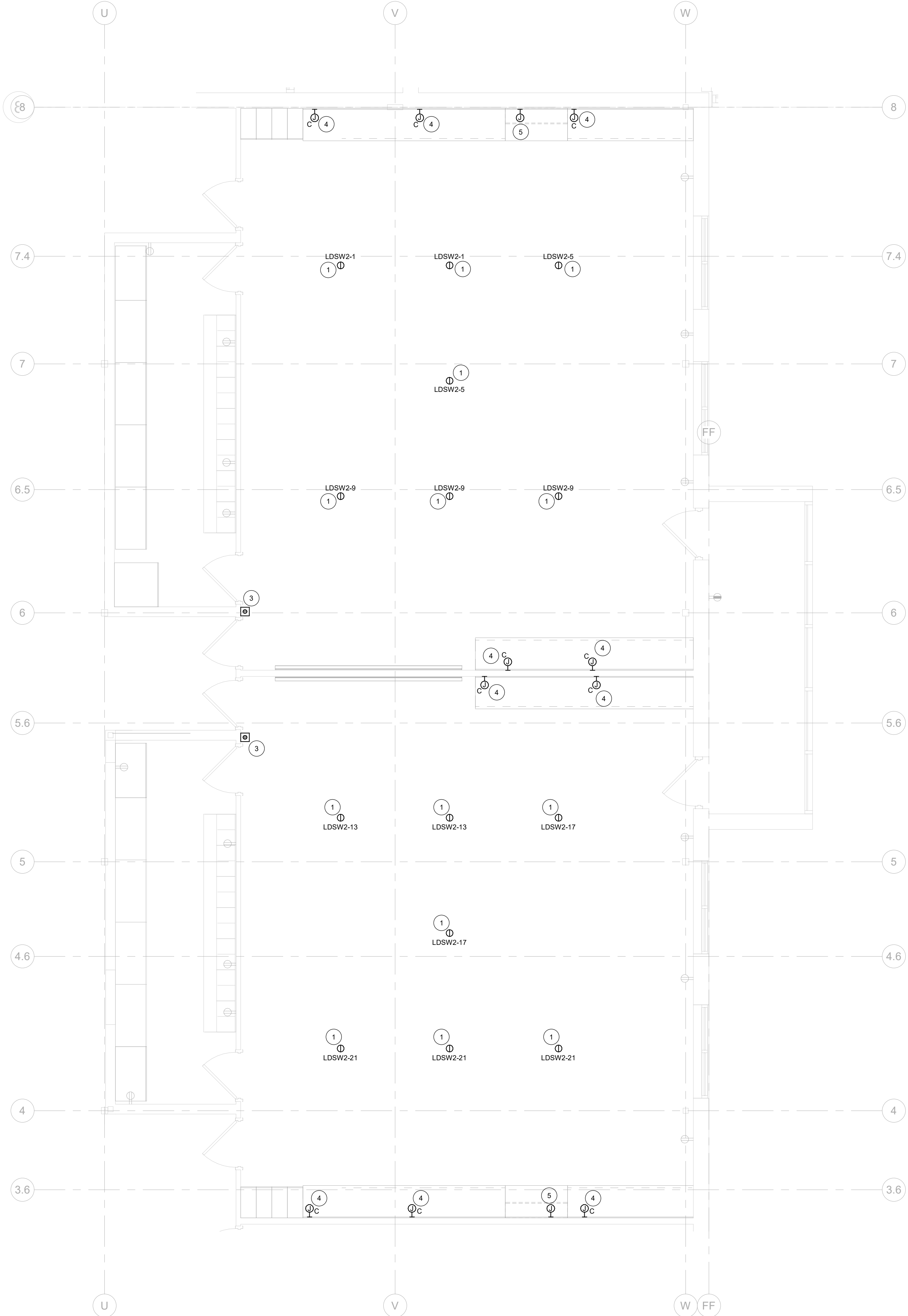
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FIRST LEVEL
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Project No:
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Sheet No:
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7TH GRADE SCIENCE ROOMS ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



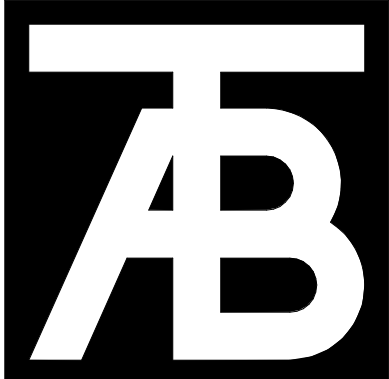
8TH GRADE SCIENCE ROOMS ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR FINAL RECEPTACLE AND DEVICE PLACEMENT. COORDINATE ALL RECEPTACLE MOUNTING LOCATIONS WITH FIXTURES, APPLIANCES, FURNITURE, CABINETRY, AND OTHER EQUIPMENT PRIOR TO ROUGH-IN.
2. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CIRCUIT, DISCONNECT, AND CONDUCTORS FOR MECHANICAL EQUIPMENT.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION OF ELECTRICAL EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ETC. EC SHALL BE RESPONSIBLE FOR COORDINATION AND THE ROUTING OF FEEDERS, AND BRANCH CIRCUITS.
4. COORDINATE POWER CONNECTIONS FOR OWNER PROVIDED EQUIPMENT AND APPLIANCES, AND ALL OTHER EQUIPMENT PROVIDED BY OTHER DIVISIONS WITH SUBMITTAL DATA CUT SHEETS, WIRING DIAGRAMS, AND MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS. FIELD COORDINATE FINAL LOCATIONS OF EQUIPMENT AND POWER CONNECTIONS WITH GENERAL CONTRACTOR AND OTHER DIVISIONS/CONTRACTORS PRIOR TO ROUGH-IN.

FLAG NOTES:

1. PROVIDE SIMPLEX RECEPTACLE FOR HUBBELL #ACA12345-DR20 PULL-DOWN RECEPTACLE OR EQUIVALENT. COORDINATE EXACT LOCATION OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE ADD ALTERNATE PRICE TO PROVIDE ELECTRICAL CIRCUIT FOR NEW FUME HOOD.
3. PROVIDE EMERGENCY SHUT-OFF FOR ALL RECEPTACLES IN CLASSROOM. REPLACE EXISTING CIRCUIT BREAKERS SERVING EXISTING RECEPTACLES IN CLASSROOM WITH SHUNT TRIP TYPE CIRCUIT BREAKERS. ADD ALTERNATE PRICE TO INCLUDE ALL COMPONENTS TO PROVIDE AN OPERABLE EM SHUTOFF SYSTEM.
4. PROVIDE NEW LEGRAND #X20GB618 PLUGWOLD OR EQUIVALENT. REUSE EXISTING ELECTRICAL CIRCUIT SERVING DEMO. PLUGWOLD REPLACE EXISTING CIRCUIT BREAKER WITH SHUNT TRIP BREAKER.
5. PROVIDE (2#12, #12G) 3/4" TO JUNCTION BOX FOR NEW FUME HOOD.



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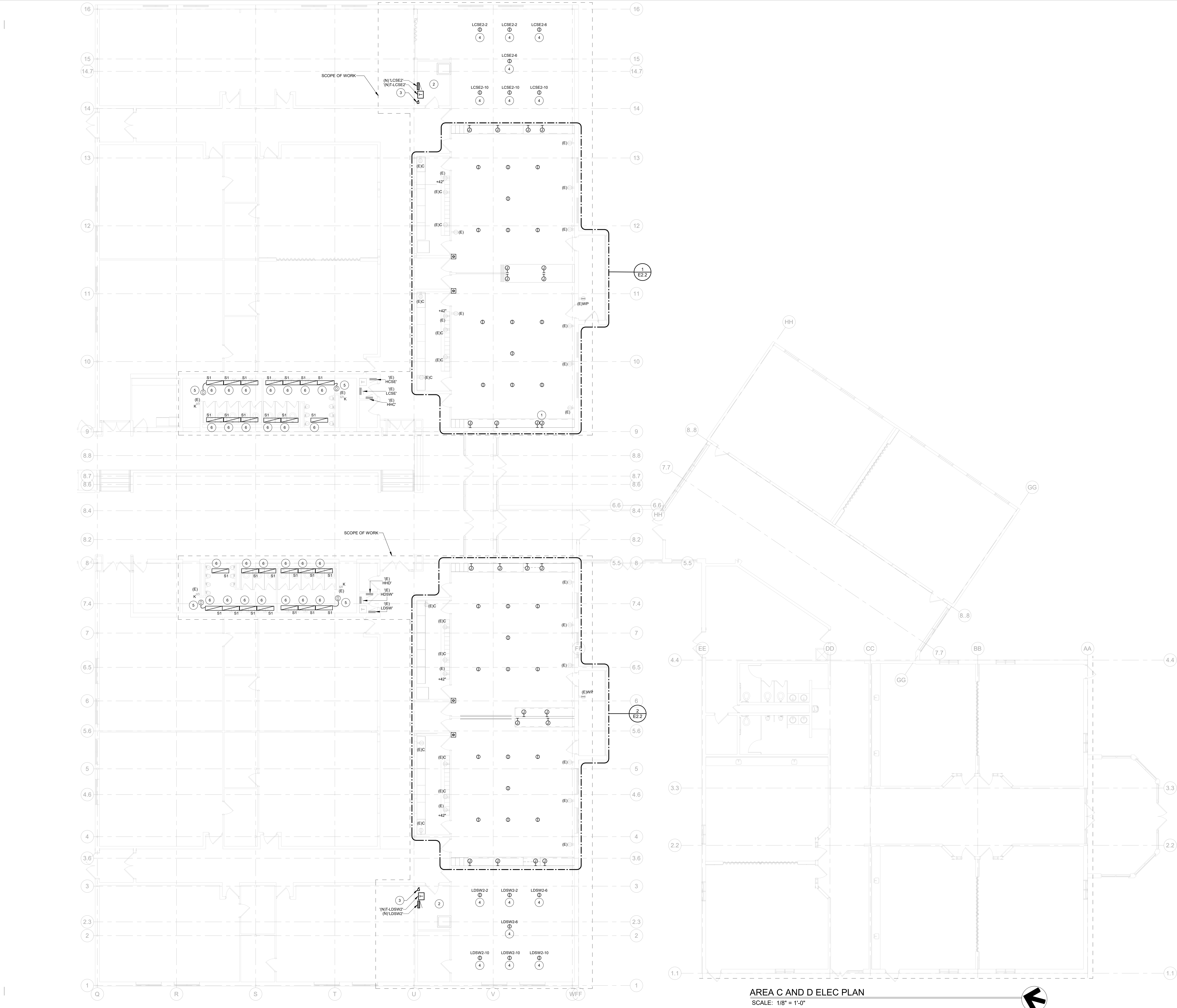
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Sheet Title:
SCIENCE
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ELEC PLANS

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Sheet No:
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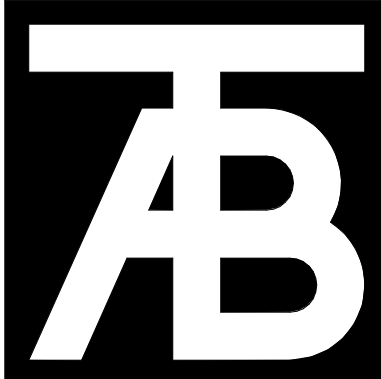


NOTES:

1. REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR FINAL RECEPTACLE AND DEVICE PLACEMENT. COORDINATE ALL RECEPTACLE MOUNTING LOCATIONS WITH FIXTURES, APPLIANCES, FURNITURE, CABINETRY, AND OTHER EQUIPMENT PRIOR TO ROUGH-IN.
2. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CIRCUIT, DISCONNECT, AND CONDUCTORS FOR MECHANICAL EQUIPMENT.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION OF ELECTRICAL EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ETC. EC SHALL BE RESPONSIBLE FOR COORDINATION AND THE ROUTING OF FEEDERS, AND BRANCH CIRCUITS.
4. COORDINATE POWER CONNECTIONS FOR OWNER PROVIDED EQUIPMENT AND APPLIANCES, AND ALL OTHER EQUIPMENT PROVIDED BY OTHER DIVISIONS WITH SUBMITTAL DATA CUT SHEETS, WIRING DIAGRAMS, AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. FIELD COORDINATE FINAL LOCATIONS OF EQUIPMENT AND POWER CONNECTIONS WITH GENERAL CONTRACTOR AND OTHER DIVISIONS/CONTRACTORS PRIOR TO ROUGH-IN.

FLAG NOTES:

1. PROVIDE SIMPLEX RECEPTACLE FOR HUBBELL #A212345 DRD PULL-DOWN RECEPTACLE OR EQUIVALENT. COORDINATE EXACT LOCATION OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN.
2. DISCONNECT EXISTING LIGHTING. CIRCUIT TO PANEL 'E1' LOCATED IN ELECTRICAL ROOM MEZZANINE.
3. NEW 30A, 3P, 4P DISCONNECT ON PRIMARY SIDE OF TRANSFORMER.
4. PROVIDE SIMPLEX RECEPTACLE FOR HUBBELL #A212345 DRD PULL-DOWN RECEPTACLE OR EQUIVALENT. COORDINATE EXACT LOCATION OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN.
5. CONNECT LINE-VOLTAGE OCCUPANCY SENSOR TO EXISTING LIGHTING CIRCUIT. LIGHTING TO BE AUTOMATIC FULL ON UPON DETECTION OF OCCUPANCY. LIGHTING TO TURN OFF AUTOMATICALLY AFTER 30 MINUTES OF UNOCCUPIED SPACE. MANUAL OFF VIA EXISTING KEYED SWITCH.
6. CIRCUIT NEW LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT.



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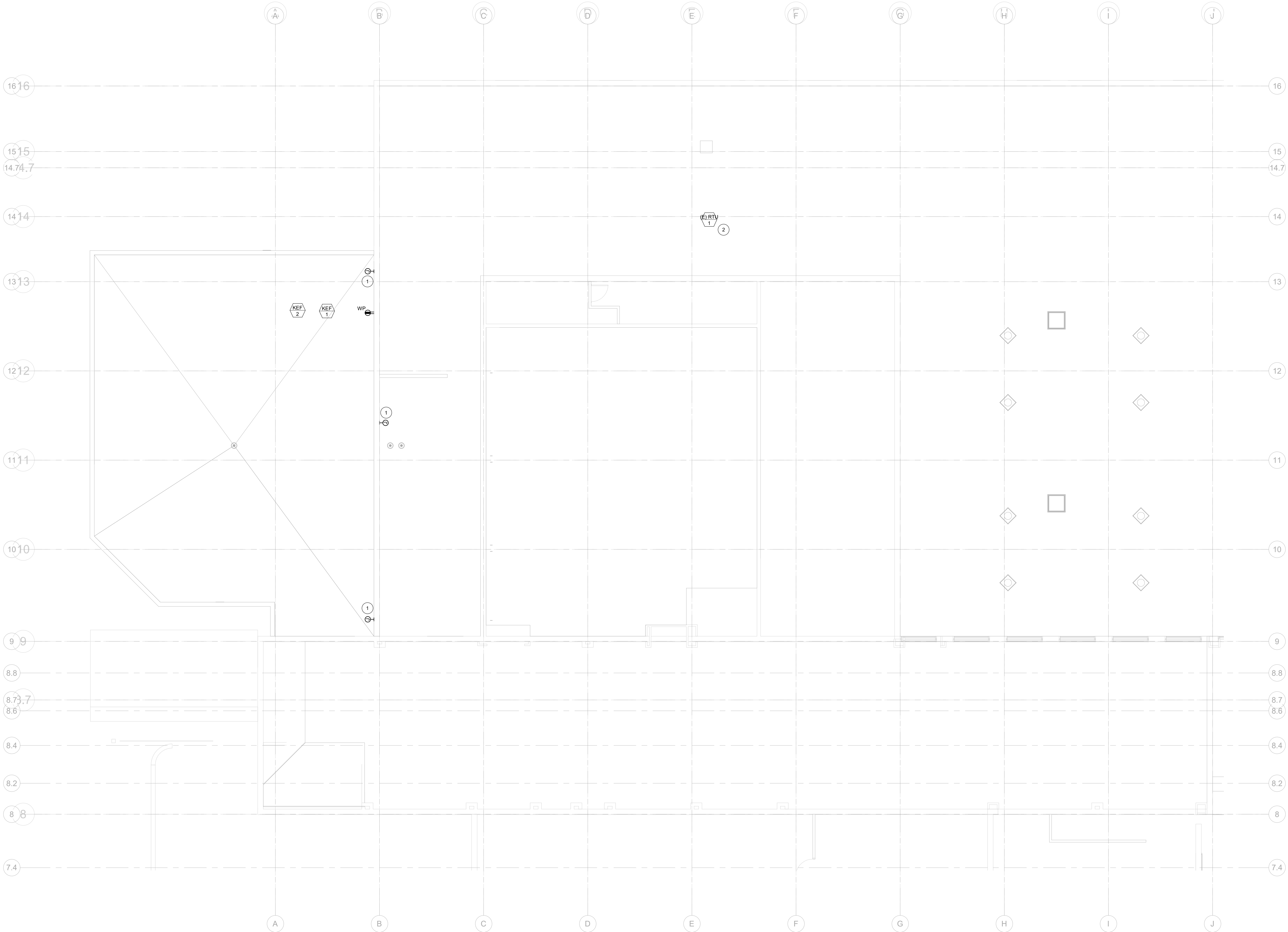
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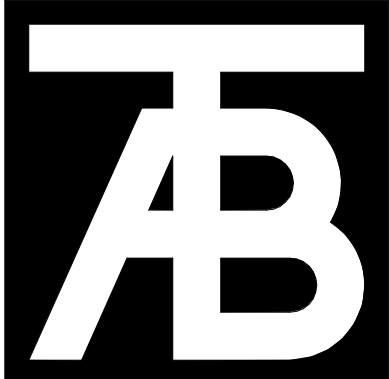
ROOF AREA A ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

ROOF HEAT
TRACE NOTES:

1. PROVIDE 12W/FT., 208 VOLT ELECTRICAL, SELF REGULATING, HEATING CABLE IN ALL GUTTERS AND DOWNSPOUTS. ELECTRIC HEATING CABLE SHALL BE UL AND CSA LISTED SPECIFICALLY AS ELECTRIC ROOF AND GUTTER DE-ICING AND SNOWMELTING EQUIPMENT. CABLE BE QUALIFIED FOR PROLONGED UV EXPOSURE TO THE SUN PER IEEE 615-1997 AND TO WITHSTAND CONTINUOUS SUBMERSION IN WATER PER IEEE 515.1-1997. PROVIDE ALL ELECTRICAL CONNECTION KITS, SUPPORTS, DOWNSPOUT HANGERS, CONTROLS, AND OTHER APPURTENANCES FOR A COMPLETE AND OPERABLE SYSTEM IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. OVERCURRENT PROTECTION FOR ELECTRIC HEATING CABLE CIRCUITS SHALL BE 30-mA-TRIP GROUND FAULT TYPE CIRCUIT BREAKERS.
3. PROVIDE ELECTRIC HEATING CABLE IN DRAINAGE VALLEYS, AS SHOWN ON PLAN. ROUTE ELECTRIC HEATING CABLE A MINIMUM OF 6" INTO ROOF DRAIN.
4. CONTRACTOR SHALL PROVIDE COMPLETE, AND OPERABLE CONTROL SYSTEM. SYSTEM SHALL CONSIST OF AMBIENT THERMOSTAT AND MOISTURE SENSOR WITH CONTACTOR(S).
5. CONTRACTOR SHALL SUBMIT SHOP DRAWING SUBMITTAL WITH ALL EQUIPMENT, CONTROLS, CONTACTORS AND ACCESSORY DATA SHEETS. DATA SHEETS SHALL BE MARKED INDICATING THE ACTUAL MODEL, VOLTAGE, RATINGS, AND ACCESSORIES BEING PROPOSED TO BE PROVIDED. SHOP DRAWING SHALL INCLUDE LAYOUT PLAN INDICATING ZONING, CONTROL INTENT, AND ESTIMATED CIRCUIT LENGTHS. PARTIAL OR INCOMPLETE SUBMITTALS WILL NOT BE ACCEPTED.
6. ACTUAL INSTALLED HEAT TRACE CIRCUIT LENGTH MAY VARY FROM DESIGN OR PLANNED FOR CIRCUIT LENGTHS. CONTRACTOR SHALL MEASURE AND RECORD ACTUAL CIRCUIT LENGTHS AND PROVIDE THE CIRCUIT LENGTHS AS PART OF TEST REPORTS. CIRCUIT LENGTH SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED LENGTH FOR THE OVERCURRENT PROTECTION RATING. CONTACT ARCHITECT/ENGINEER IF ACTUAL INSTALLED ELECTRIC HEATING CABLE LENGTHS EXCEED THE MANUFACTURER'S RECOMMENDED LENGTH FOR THE OVERCURRENT PROTECTION RATING.
7. CONTRACTOR SHALL PROVIDE ALL TESTING AND FIELD QUALITY CONTROL MEASURES RECOMMENDED BY MANUFACTURER, INCLUDING, BUT NOT LIMITED TO, MEGGER TEST ALL ELECTRIC HEATING CABLE CIRCUITS. AFTER INSTALLATION ALL HEATING CABLE CIRCUITS SHALL BE TESTED WITH A 2500 VDC MEGOHMMETER. INSULATION RESISTANCE FROM THE CONDUCTORS TO THE SHIELD SHALL BE GREATER THAN 1000 MEGOHMS. CONTRACTOR SHALL RECORD ALL TESTS AND PROVIDE TEST REPORTS TO ARCHITECT/ENGINEER, PRIOR TO PROJECT CLOSEOUT OR FINAL PUNCH REQUESTS, AS PART OF THE PROJECT CLOSEOUT DOCUMENTS.

FLAG NOTES:

1. PROVIDE 3/4" WITH PULLSTRING FROM PANEL LANE TO WEATHERPROOF JUNCTION BOX FOR FUTURE SELF-REGULATING HEATING CABLE.
2. DISCONNECT AND REMOVE CIRCUIT. REPLACE EXISTING FEED TO RTU-1 WITH 4-BB #100 IN EXISTING 3/4" CONDUIT. REPLACE EXISTING 30A-0P CIRCUIT BREAKER IN PANEL HANE2 WITH 40A-3P CIRCUIT BREAKER.



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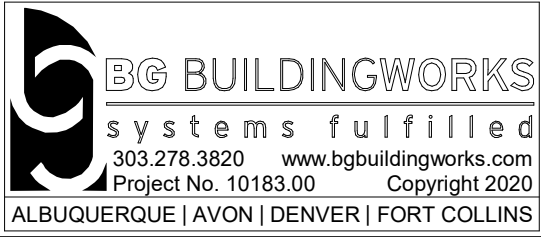
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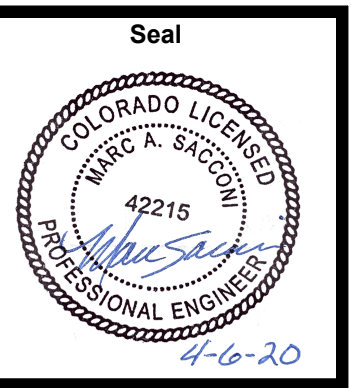
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ROOF AREA A
ELECTRICAL
PLAN

Project No:
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Sheet No:
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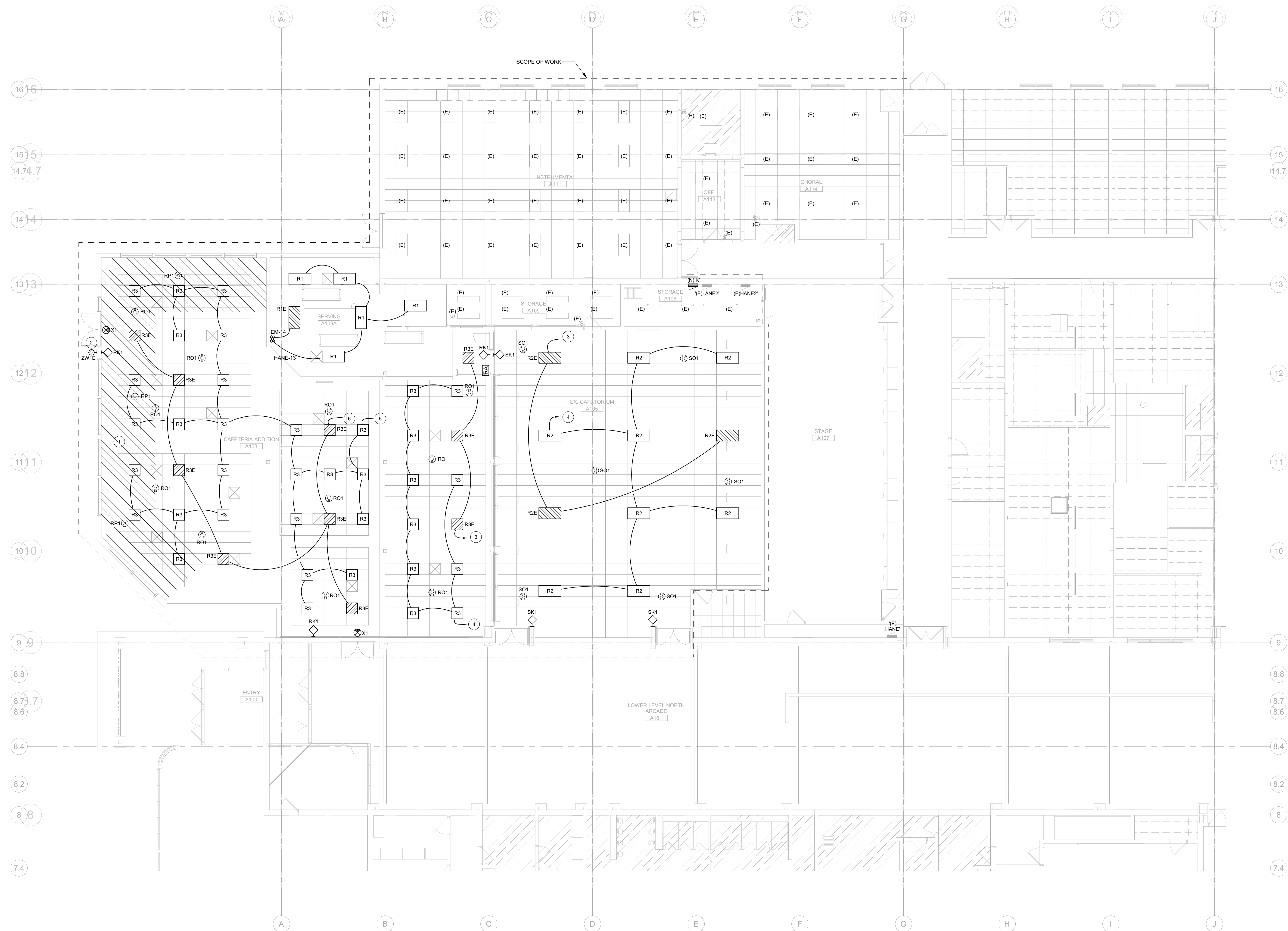
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Sheet Title:
FIRST LEVEL
AREA A
LIGHTING
PLAN

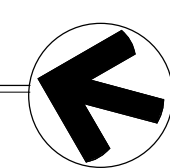
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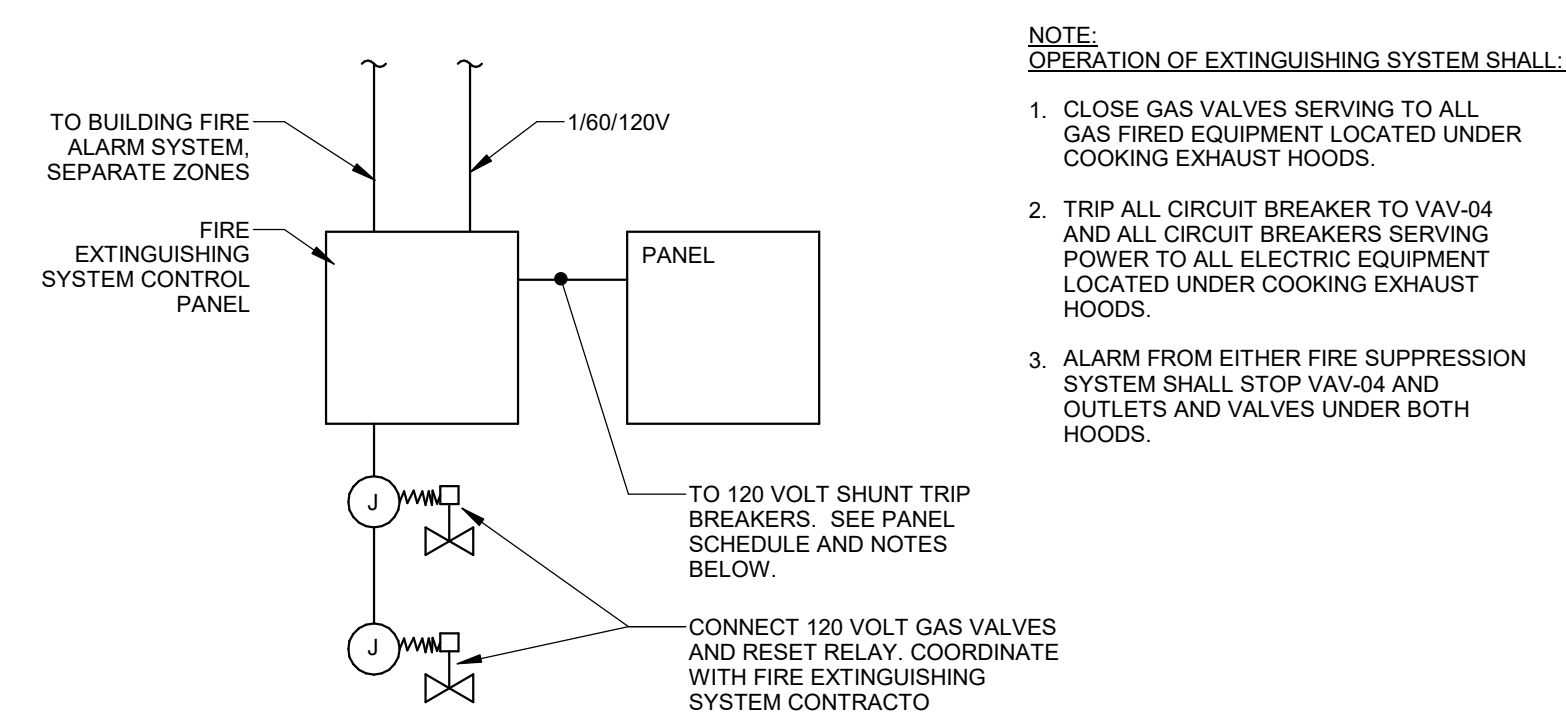
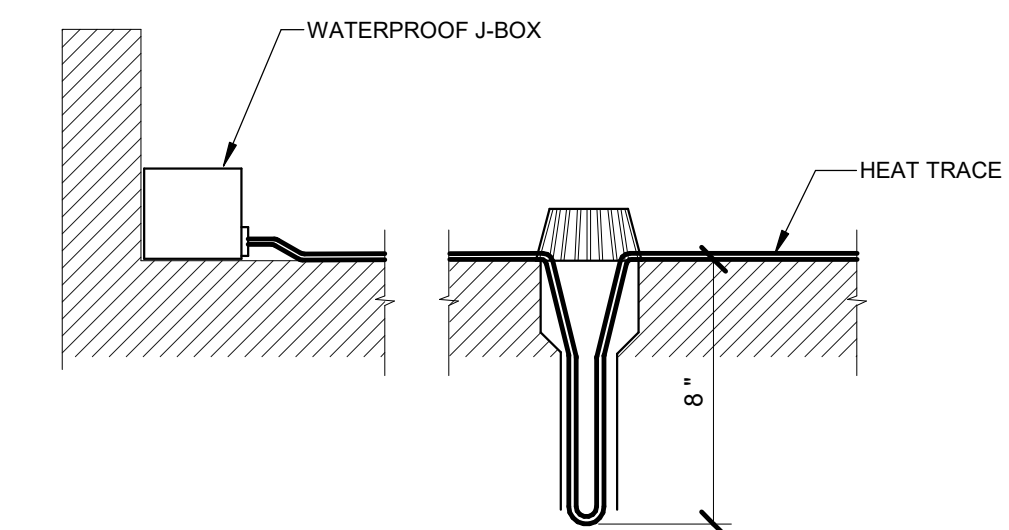
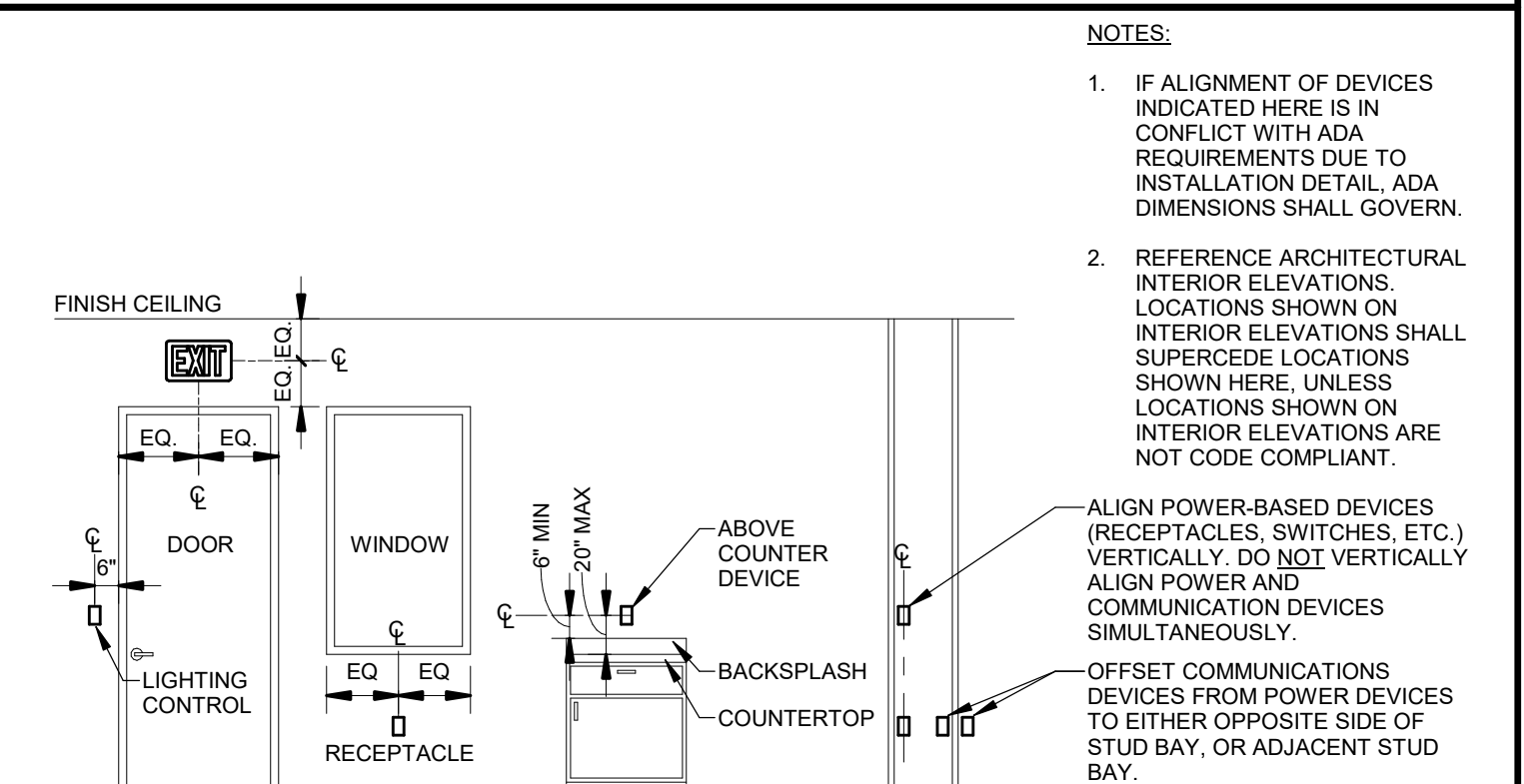
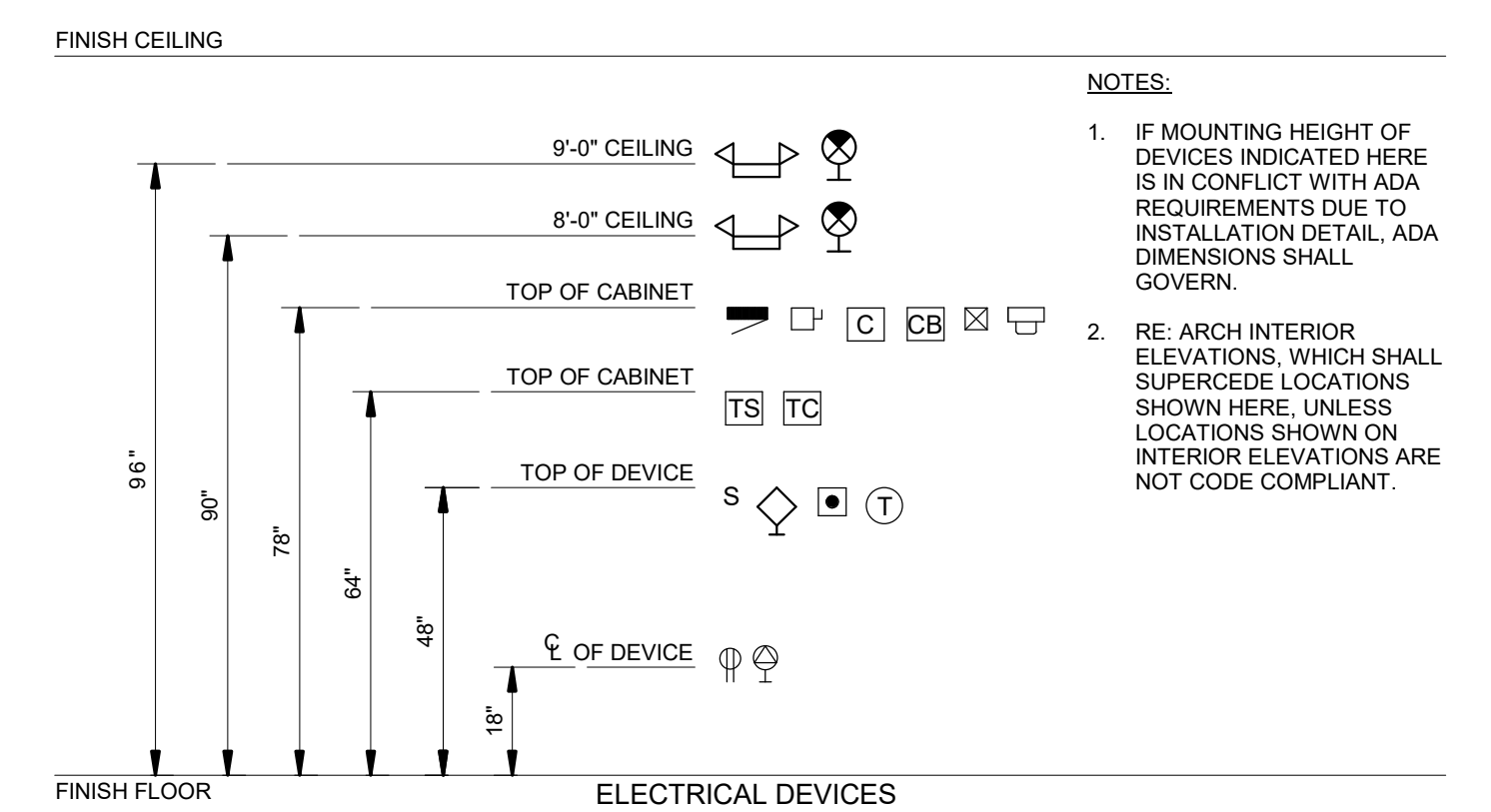
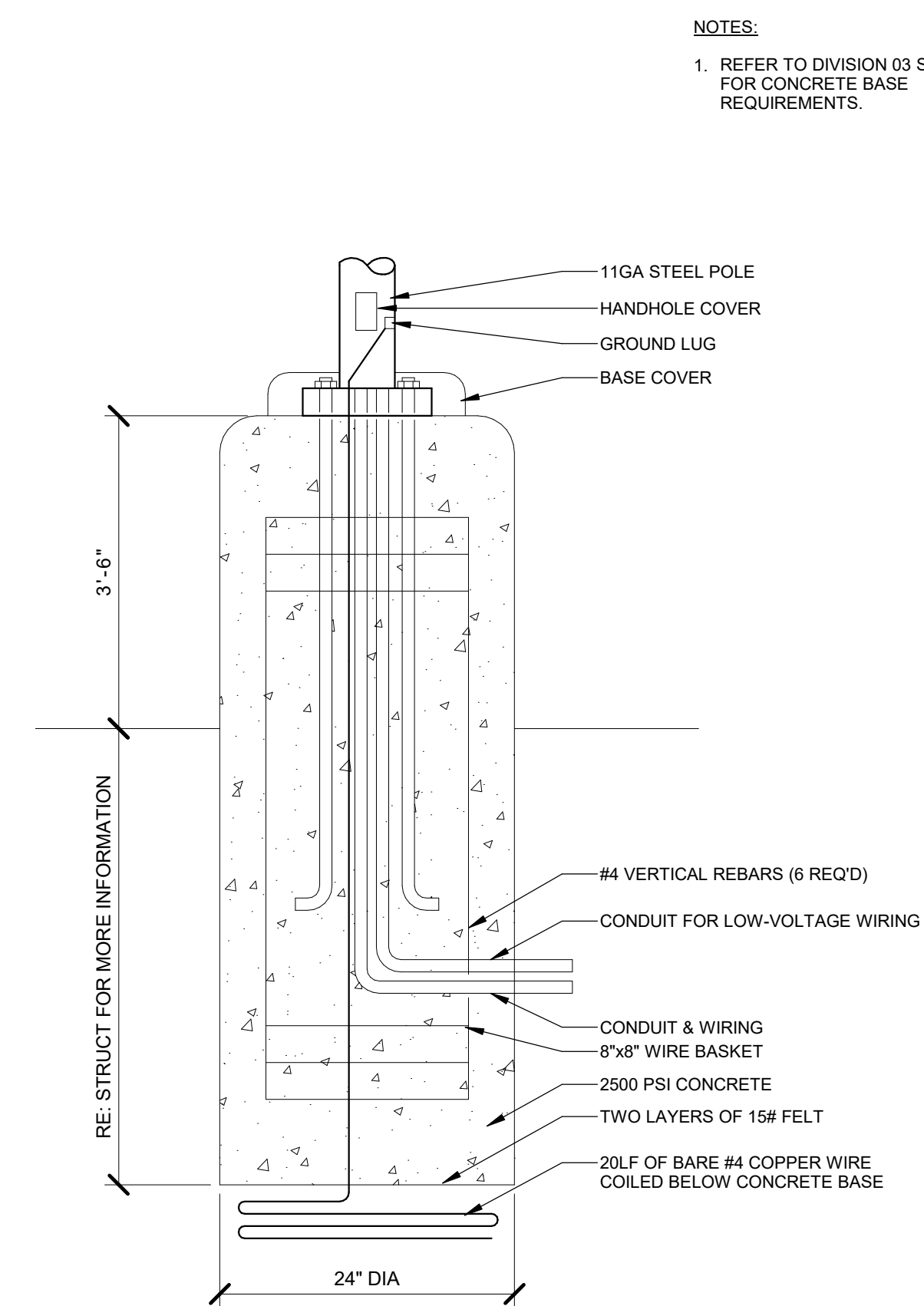
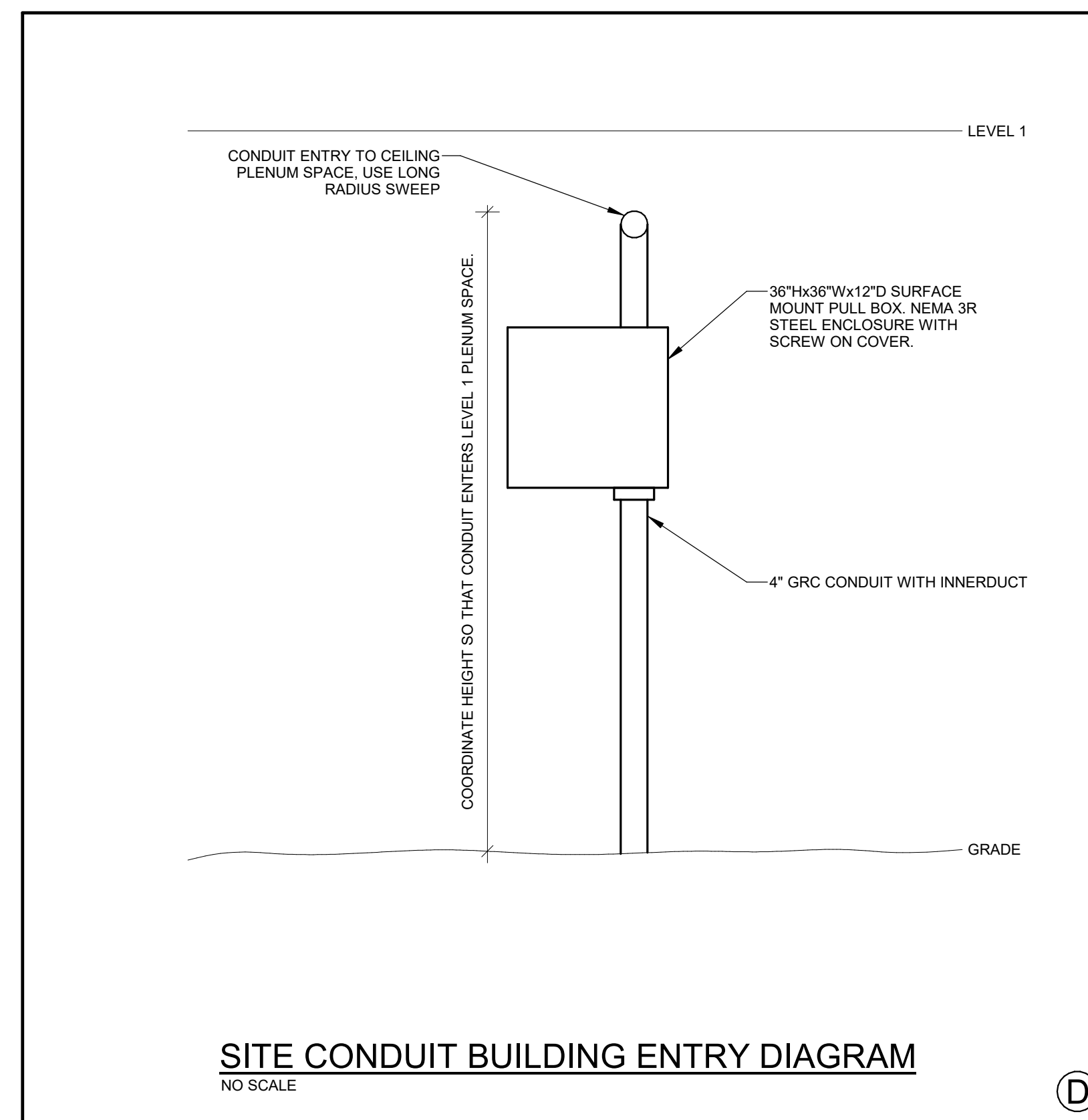
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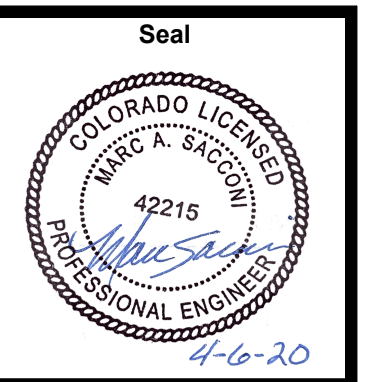
KEY PLAN

1 FIRST LEVEL AREA A LIGHTING RCP





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Sheet Title:
ELECTRICAL
DIAGRAMS

Project No:
10183.00

Sheet No: E3.1



SSSD TECHNOLOGY SYSTEMS RESPONSIBILITY MATRIX				
COMPONENT	ENTITY			SPECIFIC NOTES
	FURNISH	INSTALL		
COMMON WORK				
CABLE PATHWAY FIRE STOPPING DEVICE	E	E		
CONDUIT SLEEVES	E	E		
FIRE RATED FLOOR PENETRATION ASSEMBLY	E	E		
HANGER SUPPORTS FOR CABLE SUPPORTS	T	T		
HANGER SUPPORTS FOR CONDUITS	E	E		
MISCELLANEOUS FIRE STOPPING MATERIAL	GC	GC		
PENETRATION	GC	GC		
STRAPS/SLINGS	T	T		
WIDE BASE CABLE SUPPORTS (J-HOOKS)	T	T		
ELECTRICAL FOR COMMUNICATIONS				
BACKBOXES	E	E		
CABLE TRAY	E	E		
CABLE TRAY ELECTRICAL GROUNDING AND BONDING	E	E		
CONDUIT, FITTINGS, PULL STRINGS	E	E		
EXCAVATION, TRENCHING, BASE, BEDDING, BACKFILL	GC	GC		
FLOOR BOXES	E	E		
BONDING BUSBAR	E	E		
BONDING RISER CONDUCTORS	E	E		
HANGERS AND SUPPORTS FOR CABLE TRAY	E	E		
INNERDUCTS	E	E		
JUNCTION BOXES	E	E		
HANDHOLES, VAULTS, MANHOLES	GC	GC		
PLENUM ENCLOSURES	E	E		
POKE-THROUGHS	E	E		
PULL BOXES	E	E		
SURFACE RACEWAY	E	E		
WALL BOXES (AV)	E	E		
TELECOMMUNICATIONS (STRUCTURED CABLING SYSTEM)				
BACKBOARDS	GC	GC	COORDINATE WITH EC AND TC.	
CABLE MANAGEMENT	T	T		
CABLE RUNWAY AND ACCESSORIES	T	T		
CONNECTORS (BACKBONE / HORIZONTAL CABLE)	T	T		
EQUIPMENT FRAMES AND ACCESSORIES	T	T		
EQUIPMENT RACKS AND ACCESSORIES	T	T		
FACEPLATES AND CONNECTORS	T	T		
HORIZONTAL CABLING	T	T		
IDENTIFICATION (LABELING)	T	T		
INSIDE PLANT BACKBONE CABLING	T	T		
OUTSIDE PLANT BACKBONE CABLING	T	T		
PATCH CORDS	O	O		
PATCH PANELS	T	T		
POWER DISTRIBUTION UNITS (PDU)	T	T		
SPLICE ENCLOSURES	T	T		
TELECOM ROOM EQUIPMENT GROUNDING AND BONDING	E	E		
TERMINATION BLOCKS	T	T		
AUDIOVISUAL SYSTEMS				
CLASSROOM				
AUDIO ENHANCEMENT SYSTEM	O	AV		
AUDIO ENHANCEMENT SYSTEM CABLING	O	AV		
INTERACTIVE SCREEN / SMART BOARD	O	O	GC TO PROVIDE BLOCKING TO SUPPORT DISPLAYS	
EQUIPMENT ENCLOSURE (IN-CEILING, IN-WALL)	AV	AV	COORDINATE POWER INSTALLATION WITH EC	
AV INTERFACE PLATES	AV	AV		
AV CABLING	O	AV		
HANGER WIRE SUPPORTS FOR AV EQUIP IN LAY-IN CEILINGS	AV	AV		
COMMON AREAS				
SOUND REINFORCEMENT LOUDSPEAKERS	AV	AV		
MICROPHONES	AV	AV		
GENERAL				
NETWORK HORIZONTAL CABLING FOR AV	T	T		
NETWORK PATCH CORDS (AT DEVICE)	O	O		
NETWORK SWITCHES AND POE	O	O		
LOW VOLTAGE CABLING	AV	AV		
SCHOOL SYSTEMS				
PUBLIC ADDRESS (PA) SYSTEM	O	O		
BELL / PROGRAM SYSTEM	O	O		
CLOCKS	O	O		
PAPRAGING LOUDSPEAKERS	O	AV		
CABLING FOR PA SYSTEM	AV	AV		
DISTRIBUTED ANTENNA SYSTEM (PUBLIC SAFETY)	GC	GC		
ELECTRONIC SAFETY & SECURITY				
ACCESS CONTROL SYSTEM				
ACCESS CONTROL SOFTWARE	O	O		
ACCESS CONTROL SYSTEM CABLING TERMINATION	S	S		
ACCESS CONTROL SYSTEM CABLING	S	S		
ACCESS CONTROL SYSTEM NETWORK CABLING	T	T		
CREDENTIAL READERS	S	S	COORDINATE WITH GC AND ARCH.	
DOOR HARDWARE	GC	GC	COORDINATE WITH ARCH.	
ELEVATOR INTEGRATION REQUIREMENTS	GC	GC		
HEAD END SERVER EQUIPMENT	O	O		
LOCKING MECHANISMS	S	S	COORDINATE WITH GC AND ARCH.	
DOOR POSITION SWITCHES	S	S	COORDINATE WITH GC AND ARCH.	
NETWORK BASED PATCH CORDS (AT DEVICE)	S	S		
COPPER PATCH CORDS - WORKSTATIONS/ROOMS	O	O		
MDF/IDF UPS	O	O		
NETWORK SWITCHES AND POE	O	O		
VIDEO SURVEILLANCE SYSTEM				
CAMERAS AND MOUNTING HARDWARE	O	O		
NETWORK BASED HORIZONTAL CABLING FOR CAMERAS	T	T		
NETWORK BASED PATCH CORDS FOR CAMERAS (AT DEVICE)	O	O		
NETWORK SWITCHES AND POE	O	O		
NETWORK VIDEO RECORDER, WORKSTATIONS AND SERVER	O	O		
SURGE PROTECTION DEVICES FOR CAMERAS	O	O		
VIDEO MANAGEMENT SOFTWARE	O	O		
END-USER EQUIPMENT				
NETWORK EQUIPMENT				
SWITCHES	O	O		
SERVERS	O	O		
FIBER PATCH CORDS - MDF/IDF	O	O		
COPPER PATCH CORDS - MDF/IDF	O	O		
COPPER PATCH CORDS - WORKSTATIONS/ROOMS	O	O		
MDF/IDF UPS	O	O		
WIRELESS ACCESS POINTS AND SYSTEM				
WI-FI SYSTEM	O	O		
ACCESS POINTS	O	O		
SERVICES				
TELEPHONE	O	O		
CATV	O	O		
DATA	O	O		
LEGEND				
GC = GENERAL CONTRACTOR				
E = ELECTRICAL CONTRACTOR				
T = TELECOMMUNICATIONS CONTRACTOR				
AV = AUDIOVISUAL CONTRACTOR				
S = SECURITY CONTRACTOR				
O = OWNER				

TECHNOLOGY SYSTEMS LEGEND

NOTE:
ALL SYMBOLS SHOWN ON LEGEND
ARE NOT NECESSARILY USED.

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
AP	ACCESS POINT
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISH GRADE
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CA TV	COMMUNITY (CABLE) ANTENNA TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CPU	CENTRAL PROCESSING UNIT
CT	CURRENT TRANSFORMER
DISP	GARBAGE DISPOSAL
DW	DISHWASHER
(E)	EXISTING
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
IAW	IN ACCORDANCE WITH
IC	INTERMEDIATE CROSS-CONNECT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IR	INFRARED
LAN	LOCAL AREA NETWORK
MDF	MAIN DISTRIBUTION FRAME
(N)	NEW
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
PA	PUBLIC ADDRESS
REF	REFRIGERATOR
SPD	SURGE PROTECTION DEVICE
TTB	TELECOMMUNICATIONS TERMINAL BOARD
TVTB	TELEVISION TERMINAL BOARD
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WLAN	WIRELESS LOCAL AREA NETWORK
WP	WEATHERPROOF
XP	EXPLOSIONPROOF
"18"	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR (VERIFY W/ ARCH ELEVATIONS)

NOTES:

- LIGHT UNWEIGHT INDICATES EXISTING
- HATCHED AREAS INDICATE DEMOLITION

VOICE/DATA SYMBOLS

	COMMUNICATIONS WALL OUTLET
	ANALOG WALL OUTLET
	COMBO ANALOG/COMMUNICATIONS WALL OUTLET
	COMMUNICATIONS FLOOR OUTLET
	ANALOG FLOOR OUTLET
	COMBO ANALOG/COMMUNICATIONS FLOOR OUTLET
	WIRELESS LAN (WI-FI) ACCESS POINT OUTLET - CEILING
	WIRELESS LAN (WI-FI) ACCESS POINT OUTLET - WALL
	POWER/TELECOM POLE
	MULTI-OUTLET WIREWAY
NUMBER OF DATA JACKS	
NUMBER OF VOICE JACKS	
NUMBER OF FIBER JACKS	
#D/#V/#F	
XX	
OUTLET DESIGNATIONS (XX)	
POS - POINT-OF-SALE	
C - MOUNT ABOVE COUNTER	
E - ELEVATOR	
W - WALL PHONE PLATE WITH LUGS	
EM - EMERGENCY SERVICES	

INTERCOM/PROGRAM/BELL/CLOCK SYMBOLS

	ANALOG CLOCK - WALL MOUNTED
	ANALOG CLOCK - CEILING MOUNTED
	DIGITAL CLOCK - WALL MOUNTED
	DIGITAL CLOCK - CEILING MOUNTED
	CALL IN SWITCH
	MASTER INTERCOM STATION
	INTERCOM STATION
	CHIME
	BUZZER
	BELL
	INTERCOM LOUDSPEAKER - CEILING MOUNTED
	INTERCOM LOUDSPEAKER - WALL MOUNTED
	TWO-WAY COMM SPEAKER - CEILING MOUNTED
	TWO-WAY COMM SPEAKER - WALL MOUNTED

ELECTRONIC SAFETY & SECURITY SYMBOLS

	CEILING MOUNTED CAMERA
	WALL MOUNTED CAMERA
	CORNER MOUNTED CAMERA
	MULTISENSOR DOME CAMERA
	HEMISPHERIC DOME FISHEYE CAMERA
	INTERCOM - VIDEO DOOR STATION
	TWO-WAY EMERGENCY COMMUNICATION SYSTEM - CALL BOX
	TWO-WAY EMERGENCY COMMUNICATION SYSTEM - COMMAND CENTER
	INTRUSION DETECTION MAIN PANEL
	ACCESS CONTROL MAIN PANEL
	REQUEST-TO-EXIT - PANIC/CRASH BAR SENSOR
	REQUEST-TO-EXIT - MOTION DETECTOR (PIR)
	REQUEST-TO-EXIT - PUSH BUTTON
	CARD READER LOCKSET COMBO - POWER OVER ETHERNET
	CARD READER LOCKSET COMBO - WIRELESS (BATTERY POWERED)
	CARD READER - STANDALONE
	ELECTRIC LOCK - LATCH RETRACTOR
	ELECTRIC LOCK - ROD RETRACTOR
	ELECTRIC LOCK - STRIKE
	ELECTRIC LOCK - MAGNETIC HOLD
	DOOR POSITION SWITCH - MAGNETIC CONTACT
	DOOR POSITION SWITCH - WIRELESS
	DOOR POSITION SWITCH - LATCH/BOLT MONITOR
	DOOR POSITION SWITCH - OVERHEAD DOOR
	RF GATEWAY - WIRELESS LOCKSETS/DOOR POSITION SWITCHES
	DOOR RELEASE BUTTON
	PANIC BUTTON
	ADA ACCESS CONTROL ACTUATOR
	INTRUSION MOTION SENSOR - WALL MOUNT
	INTRUSION MOTION SENSOR - CEILING MOUNT
	SECURITY KEYPAD

GENERAL SYMBOLS

	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	CONDUIT RUN
	CONDUIT RUN BELOW GRADE
	CONDUIT UP
	CONDUIT DOWN
	CABLE RUNWAY
	CABLETRAY (PREMISES, NUMBER INDICATES WIDTH/DEPTH)
	GROUNDING BUSBAR (TGB/TMBG)
	DEMARCATION POINT
	WALL-MOUNT CABINET
	EQUIPMENT RACK
	WALL-MOUNTED EQUIPMENT RACK

AUDIOVISUAL SYMBOLS

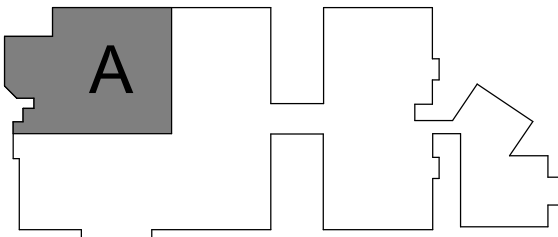
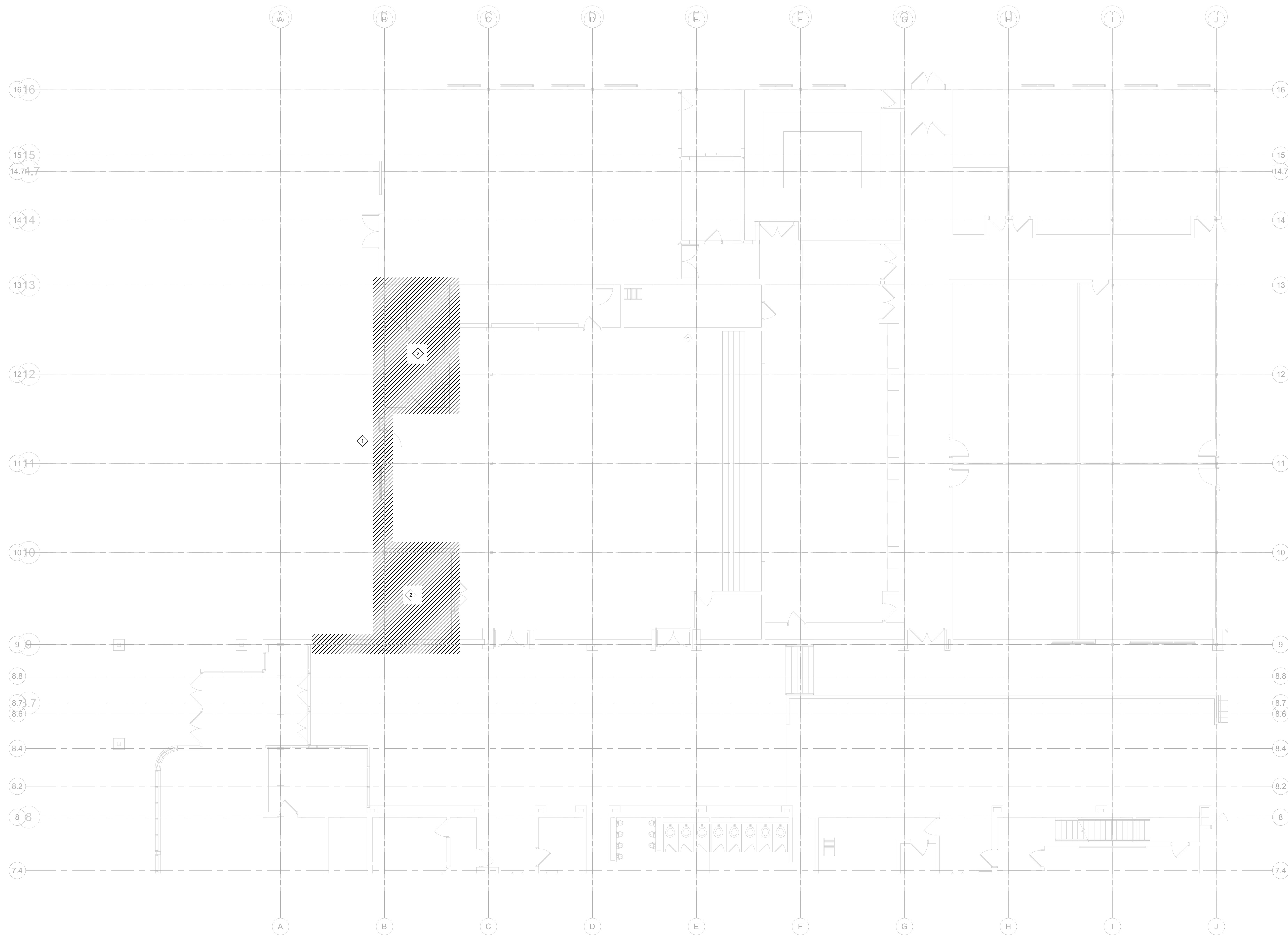
	TELEVISION OUTLET - WALL MOUNTED
	TELEVISION OUTLET - CEILING MOUNTED
	TELEVISION OUTLET - FLOORBOX
	DIGITAL SIGNAGE
	AUDIOVISUAL OUTLET - WALL MOUNTED
	AUDIOVISUAL OUTLET - CEILING MOUNTED
	AUDIOVISUAL OUTLET - FLOORBOX
	LOUDSPEAKER - CEILING MOUNTED
	LOUDSPEAKER - WALL MOUNTED
	LOUDSPEAKER OUTLET
	MICROPHONE OUTLET - WALL MOUNTED
	MICROPHONE OUTLET - CEILING MOUNTED
	MICROPHONE OUTLET - FLOORBOX
	POINT SOURCE LOUDSPEAKER
	PROJECTION SCREEN, TV, OR OTHER DISPLAY EQPT
	VIDEO PROJECTOR
	SPEAKER ZONE HOMERUN

CONTROL SYMBOLS

	SWITCH - 120V
	SWITCH - 120V KEYPAD
	SWITCH - LOW VOLTAGE
	CONTROL KEYPAD
	CONTROL TOUCHSCREEN (WALL MOUNT)
	CONTROL TOUCHSCREEN (WIRELESS)
	VOLUME CONTROL
	CONTROL - HANDHELD REMOTE
	OCC SENSOR - CEILING MOUNTED
	CONTROL TOUCHSCREEN FLIP TOP TABLE BOX

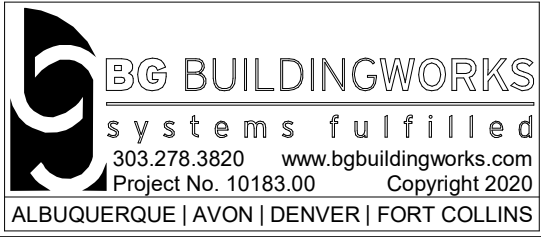
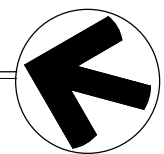
SCHEMATIC/FUNCTIONAL SYMBOLS

	STRUCTURED CABLING CROSS-CONNECT FIELD
	SERVICE PROVIDER DEMARCATION POINT
	AMPLIFIER
	CATV SPLITTER
	CATV DIRECTIONAL COUPLER
	CATV 4-WAY TAP
	CATV 8-WAY TAP
	EQUIPMENT (AS INDICATED)
	POTENTIAL TRANSFORMER (CONSTANT VOLTAGE AUDIO)
	LOUDSPEAKER
	VOLUME CONTROL
	VIDEO PROJECTOR
	CONNECTION
	METER
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	GROUND
	COLD WATER GROUND CONNECTION
	BUILDING STEEL GROUND CONNECTION



KEY PLAN

1 FIRST LEVEL AREA A DEMO TECHNOLOGY PLAN
SCALE: 1/8" = 1'-0"

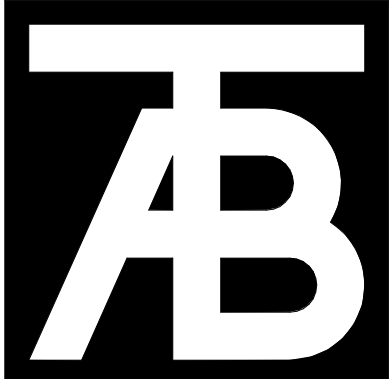


NOTES:

1. INFORMATION REGARDING EXISTING DEVICE LOCATIONS AND CABLE ROUTING IS NOT AVAILABLE. DEMOLITION PLAN INDICATES A DESIRED SCOPE OF WORK; THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IN FIELD PRIOR TO START OF WORK.
2. ALL SYSTEMS LOCATED OUTSIDE THE AREA OF DEMOLITION ARE INTENDED TO REMAIN OPERABLE.
3. CONTRACTOR SHALL COORDINATE WITH OWNER AND ENSURE ALL EQUIPMENT TO BE RETAINED BY OWNER HAS BEEN REMOVED PRIOR TO DEMOLITION WORK, INCLUDING COMPUTER EQUIPMENT, WIRELESS CLOCKS, PROJECTION SCREENS, INTERACTIVE WHITEBOARDS, ETC.

DEMO NOTES

1. (E) ACCESS CONTROLLED ENTRANCE: REMOVE CARD READER AND ELECTRIFIED DOOR HARDWARE FOR POSSIBLE REUSE. IF DOOR CONTROLLER AND PSU ARE LOCATED AT DOOR, REMOVE AND PRESERVE FOR REUSE.
2. GENERAL DEMOLITION AREA: REMOVE COMMUNICATIONS AND LOW VOLTAGE OUTLETS AND EQUIPMENT.



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Sheet Title:
FIRST LEVEL
AREA A
DEMO TECH
PLAN

Project No:
10183.00

Sheet No:
TD2.1

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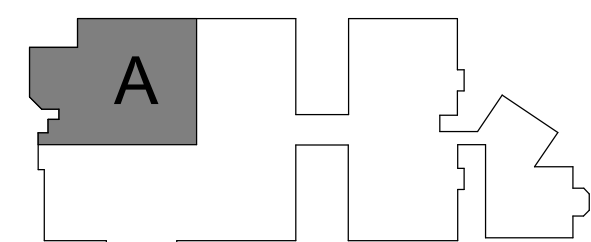
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FIRST LEVEL
AREA A TECH
PLAN

Project No:
10183.00

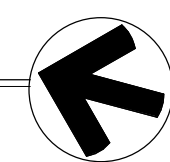
Sheet No:
T2.1

1. PROVIDE CONDUIT SLEEVES THROUGH WALLS AND CEILING JOINTS TO PROVIDE FIRESTOPPING AS REQUIRED.
2. ALL LOW VOLTAGE CONDUIT STUBBED OUT ABOVE FINISHED CEILING SHALL HAVE LONG RAN CONDUIT TO BE ACCESSIBLE CEILING.
3. CABLE TIES SHALL BE RELEASABLE AND COMPOSED OF HOOP AND LOCK RUBBER SOFT POLYMER, ZIP-TIES OR EQUAL SHALL NOT BE USED.
4. ACCESS CONTROL CABLEING SHALL BE ROUTED VIA CONDUIT FROM OUTLET BOX TO ABOVE ACCESSIBLE CEILING.
5. COMMUNICATIONS CABLEING SHALL BE ROUTED W/ILD FROM OUTLET BOX TO ABOVE ACCESSIBLE CEILING.
6. HOMERUN CABLEING TO SERVING DISTRIBUTION FRAME, USE J-HOOKS FOR PATHWAYS ABOVE ACCESSIBLE CEILING.
7. CABLEING SHALL NOT RUN UNBUNDLED FOR LENGTHS GREATER THAN 5'-0". ALL CABLEING SHALL BE PROTECTED AND TERMINATED ON RACK MOUNTED PATCH PANELS.
8. ALL INFRASTRUCTURE SUPPORTING EQUIPMENT SHALL BE PROTECTED BY RACKING, GROUNDING, PATHWAYS, ETC.) SHALL MEET BICSI STANDARDS.
9. CONTRACTOR TO PROVIDE BLOCKING AT PRIOR WORK AND DISPLAY LOCATIONS TO SUPPORT 100LBS.
10. REFER TO SHEETS TS 3 X AND T4 X FOR SYSTEMS AND INSTALLATION DIAGRAMS.

- DATA CABLEING TERMINATED TO SURFACE MOUNTED JACK AND COVERS ABOVE CEILING. PROVIDE 15' SERVICE LOOP. PORT QUANTITY AS INDICATED.
2. MOTORIZED PROJECTION SCREEN - 18" DIAGONAL 16:9. PROVIDE DA/LITE OR EQUAL PROJECTOR MOUNTED ON ADJACENT WALL.
3. PLYWOOD BACKBOARD - 24"X 48"X 3/4" MOUNT BOTTOM AT 12" O.D.
4. AV CABLEING TERMINATION. PROVIDE LOW VOLTAGE RING IN WALL - FLEET COORDINATE MOUNTING HEIGHT W/ OWNER. PROVIDE JUNCTION BOX FOR CABLE SPLICING.
5. PROJECTOR LOCATION. PROVIDE 2-PORT BISCUIT BLOCK WITH TWO (2) 1/2" HOMERUN TO SERVING OFF AND AV CONNECTIVITY TO AV INPUT WALLPLATE.
6. AV INPUT PLATE. PROVIDE 2-GANG LOW VOLTAGE RING.
7. 12U WALL MOUNT RACK. MIDDLE ATLANTIC DVA 12U RACK.
8. SURFACE MOUNT LOWSPEAKER. PROVIDE QSC AS REQUIRED.
9. (E) PAGING HORN. RELOCATE DEVICE TO LOCATION FIELD COORDINATED W/ OWNER. PROVIDE NEW CABLEING.
10. AV CONTROL KEYPAD. PROVIDE 1-GANG LOW VOLTAGE RING @ 42" AFF. ROUTE CABLE TO 12U WALL MOUNT RACK. STORAGE AT 10'.
11. LOW VOLTAGE SWITCH W/ KEYLOCK COVER FOR PROJECTION SCREEN.
12. PROVIDE GROMMET IN WORK SURFACE FOR CABLE ROUTING.
13. COORDINATE LOWSPEAKER LOCATIONS W/ OWNER. VERIFY HOMERUN LOCATION.



KEY PLAN





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Sheet Title:

TECHNOLOGY
SYSTEMS
DIAGRAMS

Project No:
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Sheet No:
T3.1



1. LIGHT LINEWEIGHT INDICATES EXISTING OR OWNER PROVIDED EQUIPMENT.
2. FIELD-COORDINATE EXACT LOCATION OF ALL PANELS AND HARDWARE WITH OWNER.
3. PROVIDE ALL NECESSARY ACCESSORIES AND APPURTENANCES TO COMPRISE A COMPLETE AND OPERABLE SYSTEM.
4. INCREASE WIRE GAUGE FOR LOCK CIRCUITS LONGER THAN 300 FEET.
5. REFERENCE PROJECT MANUAL / SPECIFICATION FOR CABLING REQUIREMENTS.
6. ALL ACCESS CONTROLLED DOORS SHALL ALLOW FREE EGRESS AT ALL TIMES.

LINETYPE LEGEND:

8/22(S)	SECURITY - CARD READER
1P/18	SECURITY - ELECTRIC DOOR HARDWARE
1P/22	SECURITY - DOOR CONTACT
RS485	CONTROL (SERIAL)
CAT5E	CATEGORY 6 - 4PR UTP

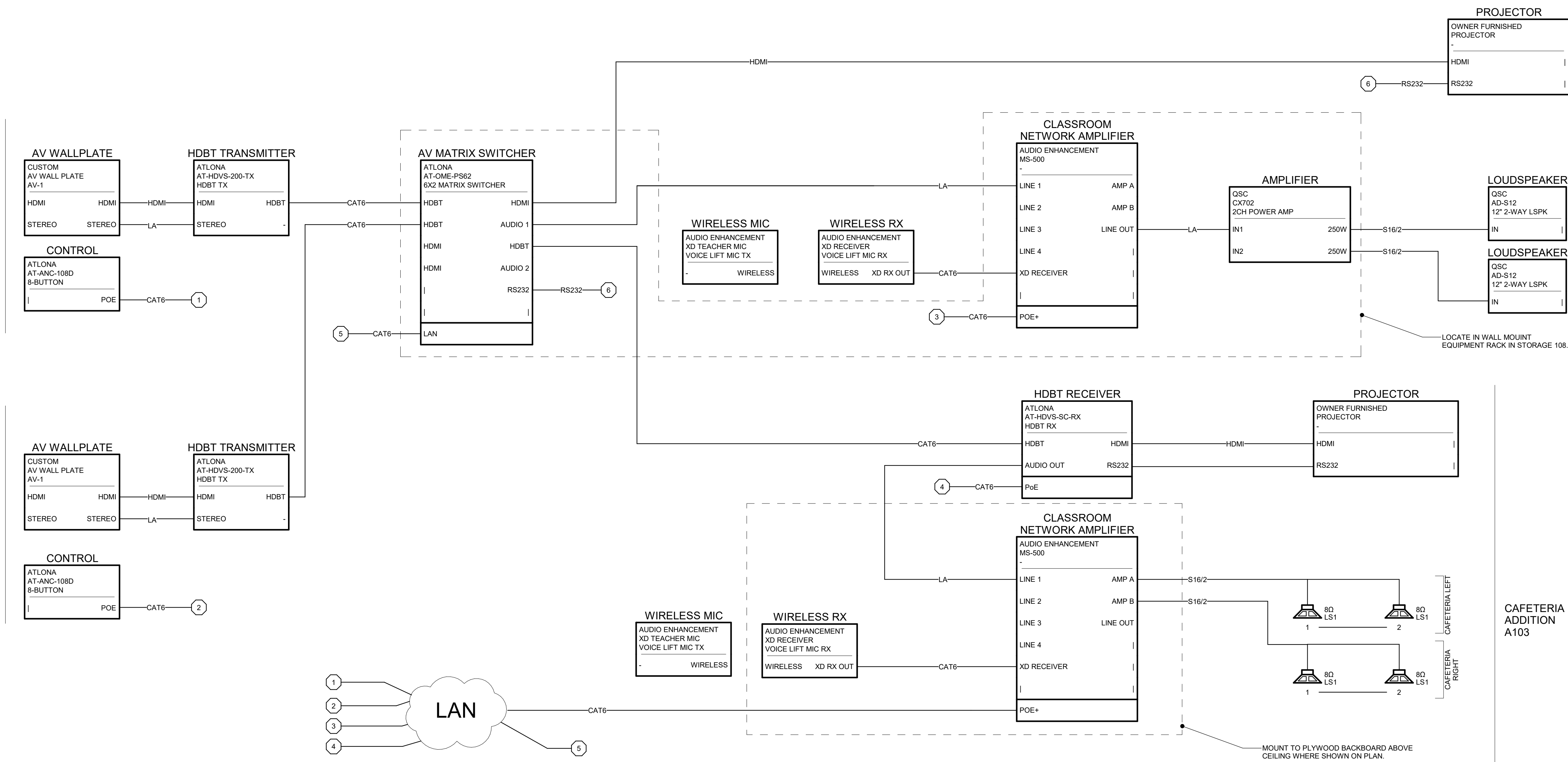
5 ELECTRONIC SECURITY FUNCTIONAL DIAGRAM

SCALE: NONE



EX CAFETERIA
A105

CAFETERIA
ADDITION
A103



1 CAFETERIA AV FUNCTIONAL DIAGRAM
SCALE: 1/8" = 1'-0"

NOTES:

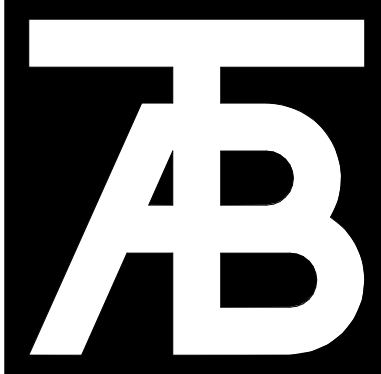
1. INSTALLERS SHALL HOLD CURRENT CERTIFICATION BY INFOCOMM INTERNATIONAL AS CTS AND/OR CTS+ AND HOLD MANUFACTURER CERTIFICATIONS FOR PRODUCTS BEING INSTALLED.
2. CONTROL SYSTEM PROGRAMMERS SHALL BE CERTIFIED BY MANUFACTURER. MINIMUM CRESTRON LEVEL 3 OR HIGHER, AMX HCCP-P OR HIGHER.
3. CONTRACTOR TO PROVIDE NECESSARY APURTENANCES TO ENSURE A FULLY FUNCTIONING SYSTEM.
4. CONTRACTOR SHALL PROVIDE EQUIPMENT RACK RACKING, RACK MOUNT POWER, MOUNTING ACCESSORIES AND VENTILATION EQUIPMENT FOR AV SYSTEM.
5. LIGHT LINE WEIGHT INDICATES EXISTING OR OFCI EQUIPMENT.

AV SYSTEM NOTES:

1. THE AV SYSTEM CONSIST OF TWO SEPARATE SYSTEM THAT MAY BE COMBINED BY WAY OF THE AV MATRIX SWITCHER.
2. SIGNAL PICKUP IN THE CAFETERIA IS ACHIEVED VIA HDBASE-T TRANSMITTERS THAT SEND SIGNAL TO THE MATRIX SWITCHER IN THE EQUIPMENT RACK IN STORAGE A108. THE SIGNAL IS PROCESSED IN THE MATRIX SWITCHER AND ROUTED TO DISPLAY DEVICES IN EACH SPACE. AUDIO SHALL FOLLOW THE VIDEO SOURCE.
3. SYSTEM CONTROL IS VIA WALL MOUNT KEYPADS. CONTROL INCLUDES SOURCE SELECTION, AUDIO LEVEL AND ON/OFF.

LINETYPE LEGEND:

- HDMI — PREFAB HDMI CABLE
LA — LINE-LEVEL AUDIO (22/2C-SH)
S16/2 — SPEAKER (GAUGE/QT)
- - -IR- - - - CONTROL (SERIAL/INFRARED)
CAT6 — CATEGORY 6 - 4PR UTP
MMOF — MULTIMODE OPTICAL FIBER
R18/2 — CONTROL RELAY (GAUGE/QT)



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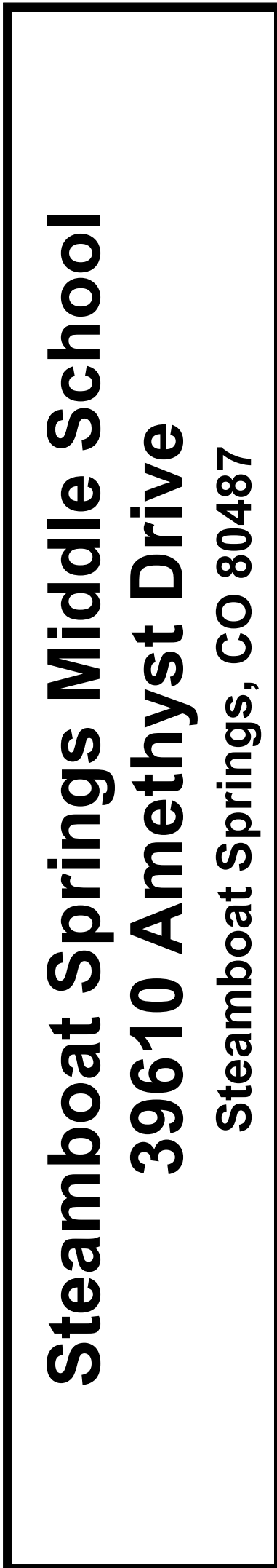
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Sheet Title:
AV
FUNCTIONAL
DIAGRAMS

Project No:
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Sheet No:
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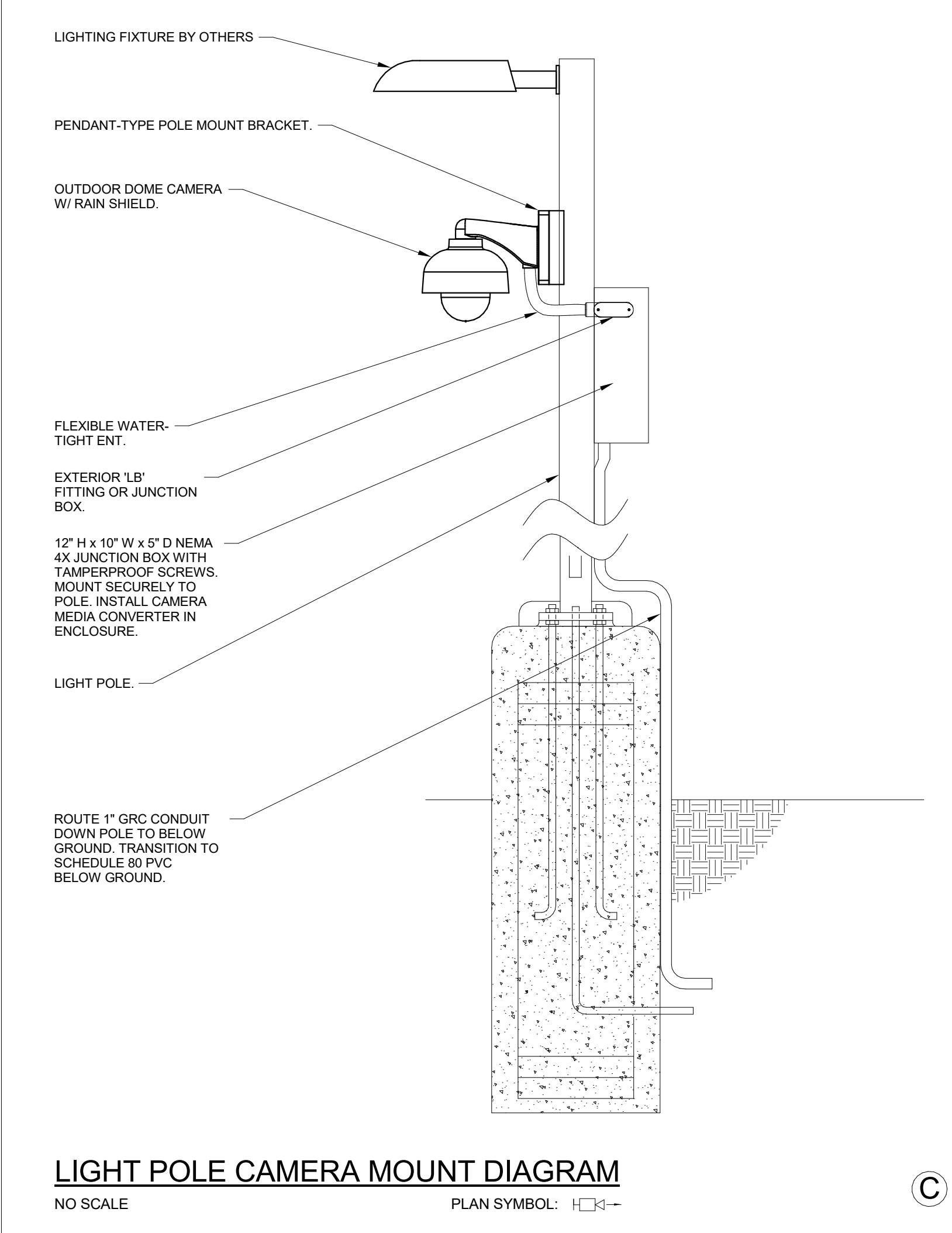
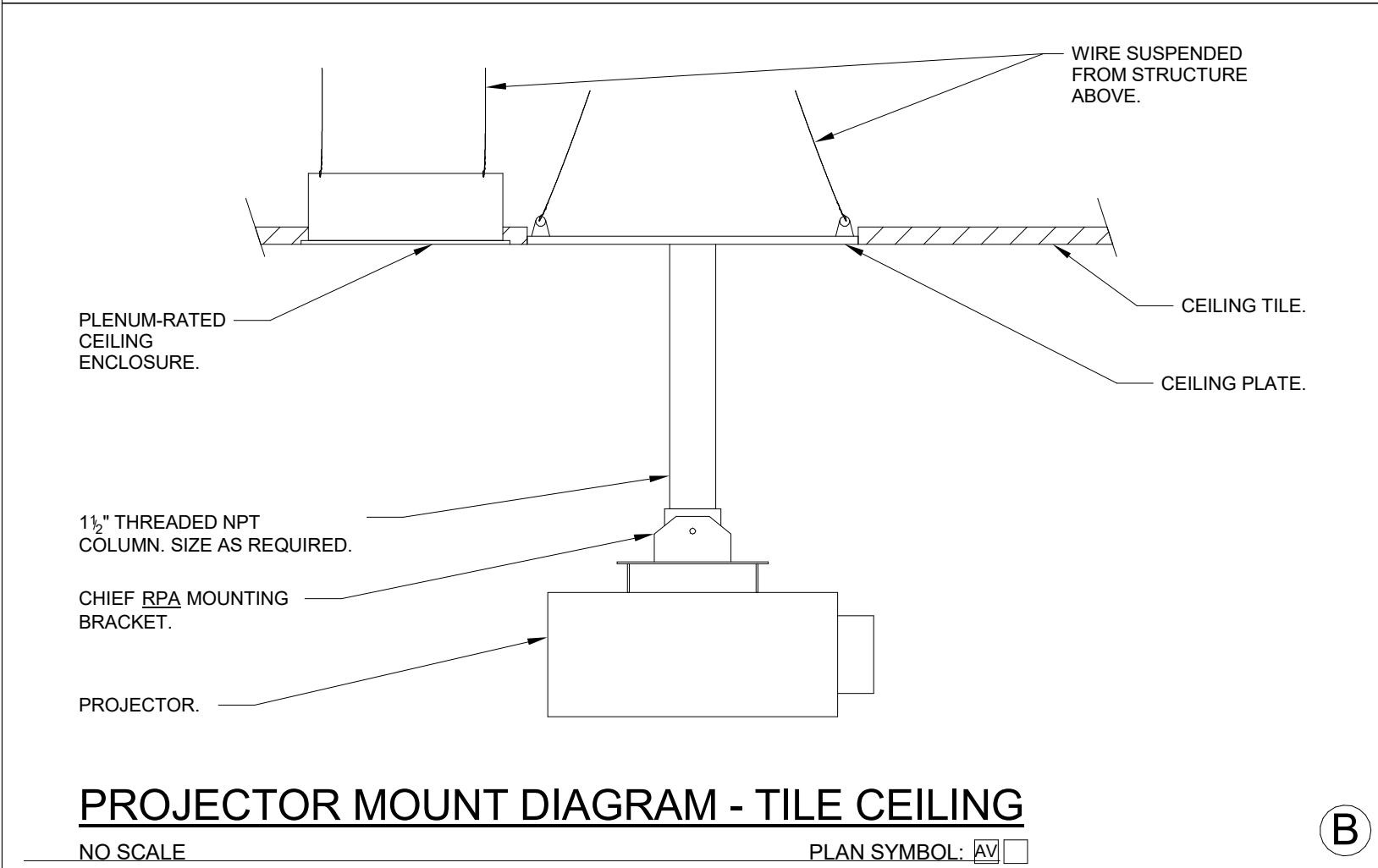
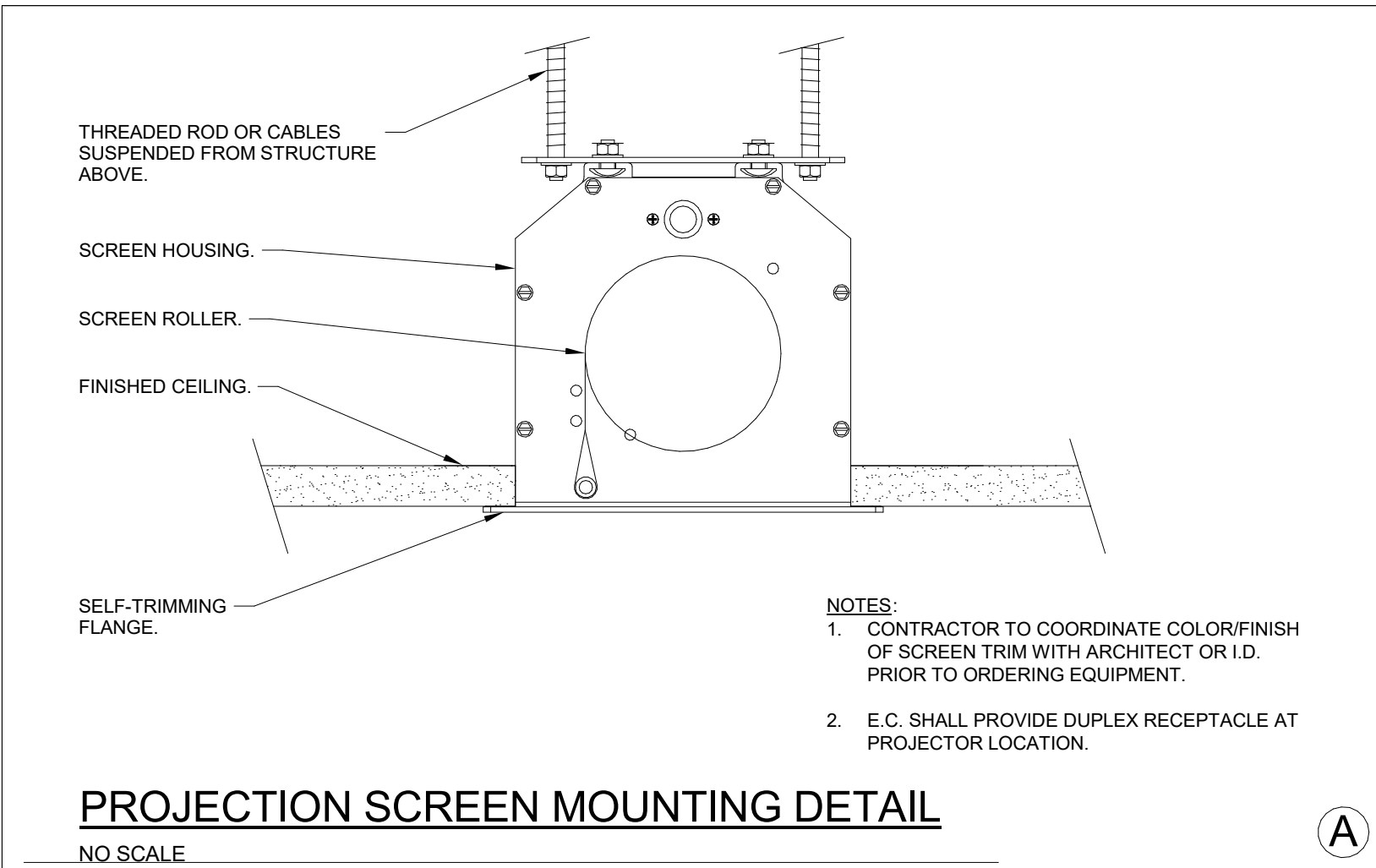
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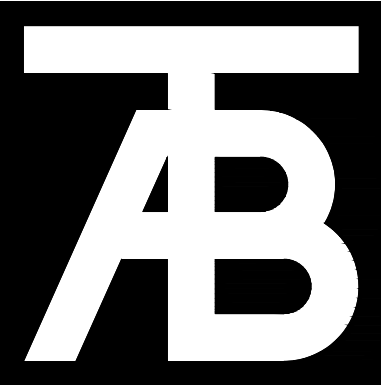
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**TECHNOLOGY
DIAGRAMS**

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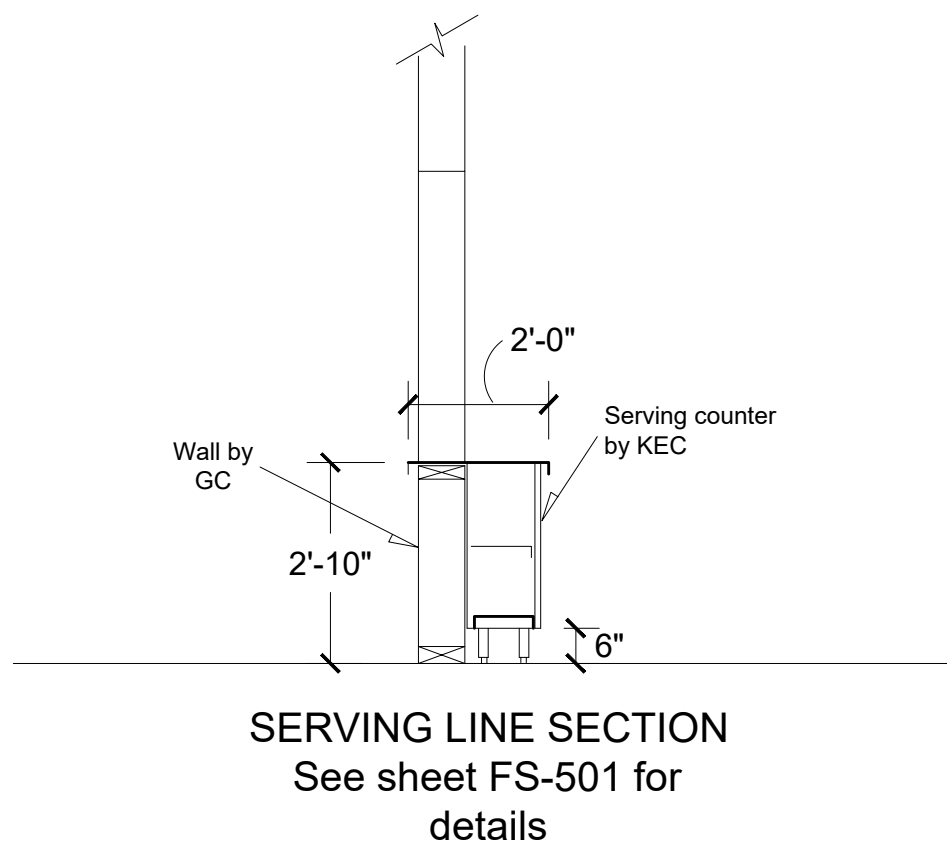
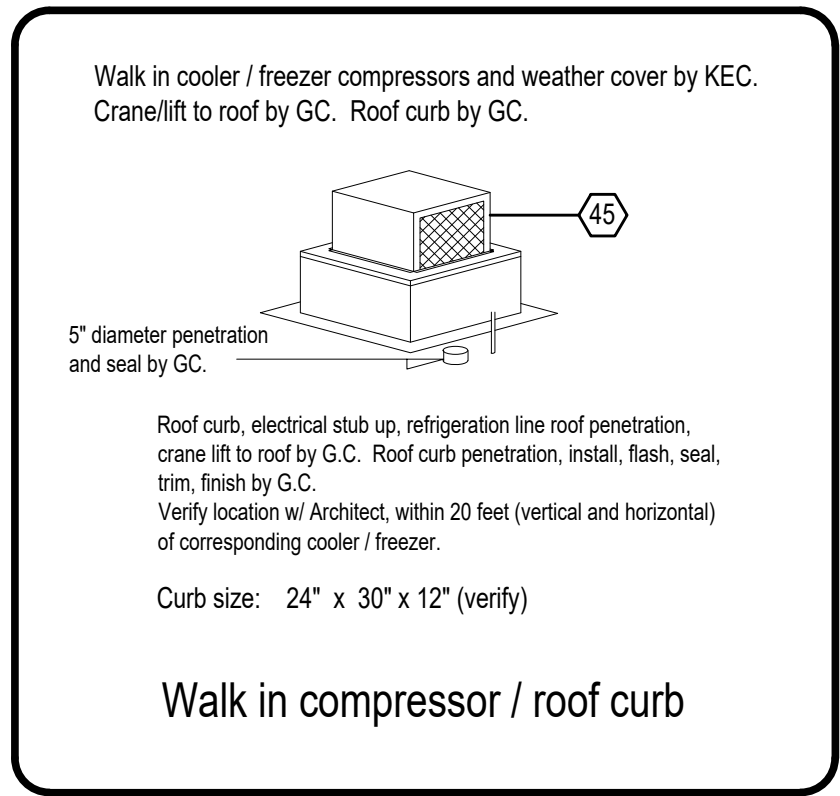
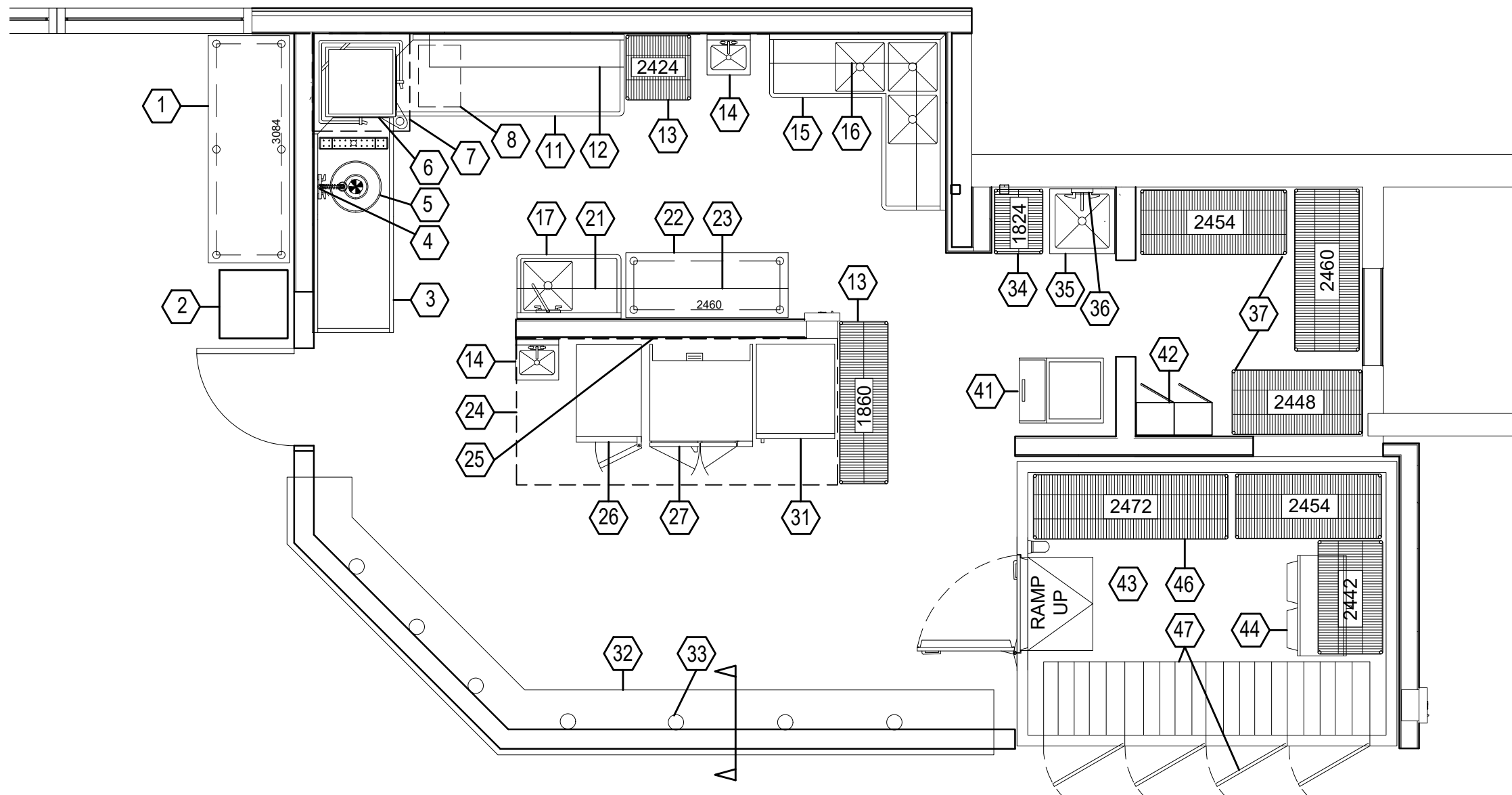
Sheet Title:

Kitchen
Equipment
Plan

Project No:
1935.03

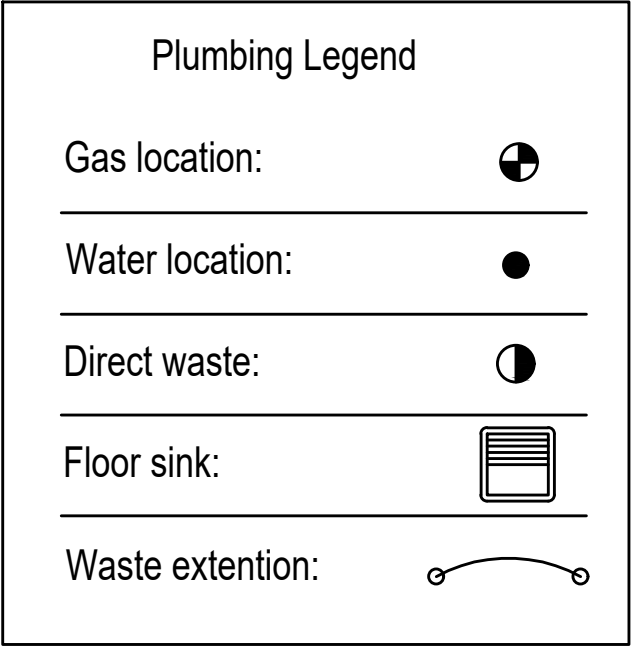
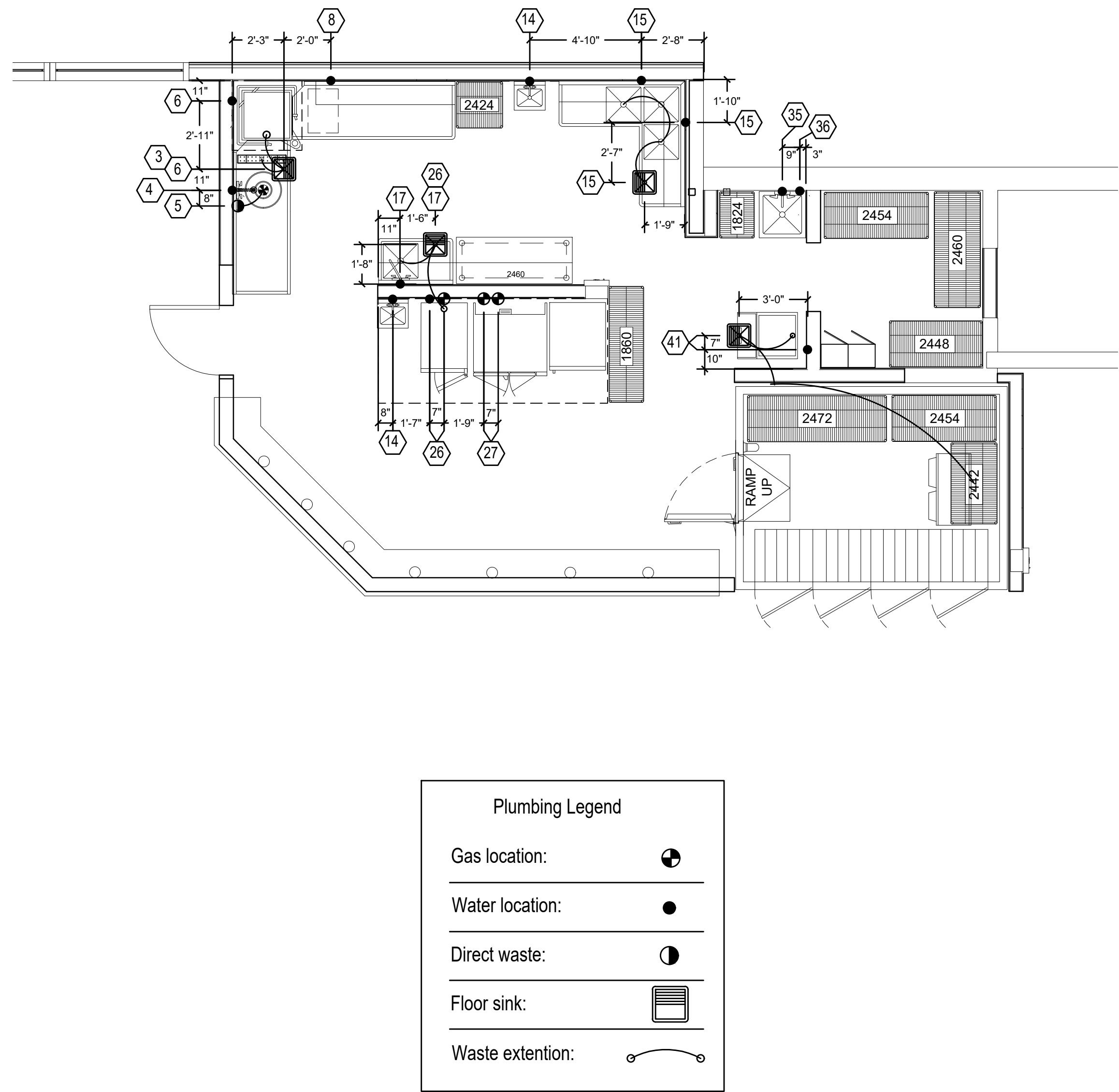
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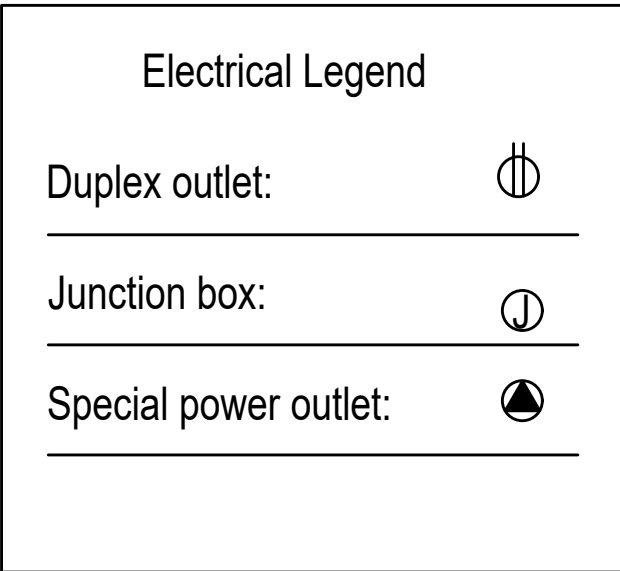
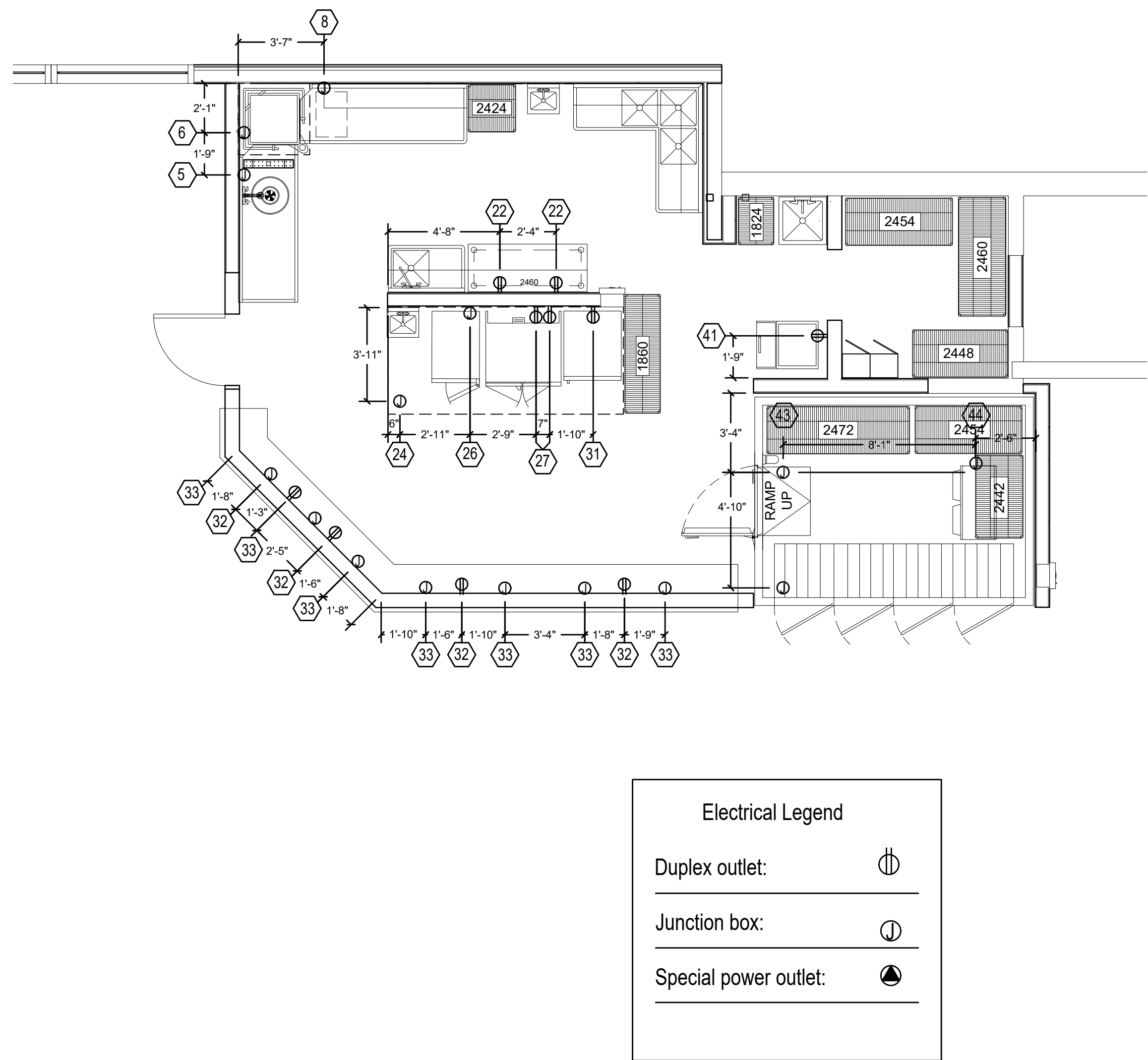


EQUIPMENT		SCHEDULE		
ITEM #	QTY.	DESCRIPTION	NOTES	PROVIDED BY
1	1	TRAY RETURN TABLE	UNDER SHELF	KEC
2	1	POS / CASHIER CART, MOBILE	CASTERS	KEC
3	1	DISH TABLE, SOILED		KEC
4	1	PRE RINSE SPRAYER		KEC
5	1	DISPOSAL, 2 HP		KEC
6	NIC	DISH MACHINE, HIGH TEMP		EXISTING
7	1	CONDENSATE HOOD		KEC
8	1	BOOSTER HEATER		KEC
9	NIC	SPARE NUMBER		
10	NIC	SPARE NUMBER		
11	1	DISH TABLE, CLEAN		KEC
12	2	WALL SHELVES	STAINLESS STEEL	KEC
13	2	CLEAN UTENSIL STORAGE	METRO MAX I	KEC
14	2	HAND SINK W/ SPLASH GUARDS		KEC
15	1	SINK, 3 COMPARTMENT, CORNER	OVERFLOWS AND LEVER DRAINS	KEC
16	2	WALL SHELVES	STAINLESS STEEL	KEC
17	1	SINK, VEG PREP	OVERFLOW AND LEVER DRAIN	KEC
18	NIC	SPARE NUMBER		
19	NIC	SPARE NUMBER		
20	NIC	SPARE NUMBER		
21	2	WALL SHELVES	STAINLESS STEEL	KEC
22	1	WORK TABLE	UNDER SHELF	KEC
23	2	WALL SHELVES	STAINLESS STEEL	KEC
24	1	EXHAUST HOOD, TYPE 2	SSSD STATES, NO COOKING WILL OCCUR	KEC
25	1 LOT	WALL FLASHING BELOW HOOD	STAINLESS STEEL	KEC
26	1	STEAMER, 10 PAN		KEC
27	1	CONVECTION OVEN, DOUBLE STACKED	CASTERS	KEC
28	NIC	SPARE NUMBER		
29	NIC	SPARE NUMBER		
30	NIC	SPARE NUMBER		
31	NIC	CABINET, HEATED		EXISTING
32	1	SERVING LINE, W/ BASE CABINET	STAINLESS STEEL TOP AND BASE	KEC
33	7	HEAT LAMPS		KEC
34	1	CLEANING SUPPLIES STORAGE	METRO MAX I	KEC
35	NIC	MOP SINK		GC
36	NIC	HOSE BIB FOR CHEM DISPENSER		GC
37	3	DRY STORAGE SHELVING	METRO MAX I	KEC
38	NIC	SPARE NUMBER		
39	NIC	SPARE NUMBER		
40	NIC	SPARE NUMBER		
41	1	ICE MACHINE W/ BIN	300 LBS / 24 HOURS	KEC
42	NIC	EMPLOYEE LOCKERS		GC
43	1	WALK IN COOLER	INTEGRAL FLOOR W /RAMP	KEC
44	1	WALK IN COOLER EVAP COIL		KEC
45	1	WALK IN COOLER CONDENSER	REMOTE, ON BUILDING ROOF	KEC
46	3	WALK IN COOLER SHELVING	METRO MAX I	KEC
47	4	GLASS DOORS W/ LED LIGHTING	27" DEEP INTERNAL SHELVING	KEC
END OF		ITEMS		
LEGEND:				
KEC = Kitchen Equipment Contractor NIC = Not In kitchen Contract GC = General Contractor				

NOTE: KEC / GC shall disconnect, remove and store all equipment that will be reused in the new kitchen. Equipment shall be store in an environmentally controlled area and protected from freezing.



KITCHEN PLUMBING - MECHANICAL

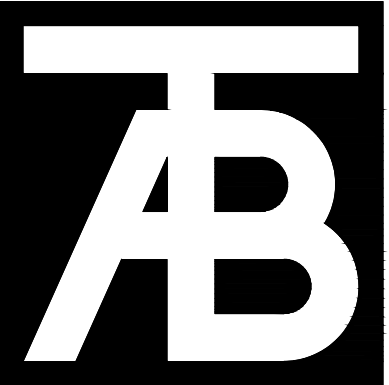


KITCHEN ELECTRICAL

EQUIPMENT			PLUMBING					SCHEDULE			
ITEM #	QTY.	DESCRIPTION	AFF	HOT WATER	COLD WATER	INDIRECT WASTE	DIRECT WASTE	FLOOR SINK	GAS	BTU	NOTES
1	1	TRAY RETURN TABLE	-								
2	1	POS / CASHIER CART, MOBILE	-								
3	1	DISH TABLE, SOILED	OOE			2		3			EXTEND INDIRECT DRAIN TO FLOOR SINK
4	1	PRE RINSE SPRAYER	-	15	1/2	1/2					
5	1	DISPOSAL, 2 HP	12				2	2			TAP WATER SUPPLY FROM ITEM #4
6	NIC	DISH MACHINE, HIGH TEMP	OOE			2		3			EXTEND INDIRECT DRAIN TO FLOOR SINK
7	1	CONDENSATE HOOD	-								
8	1	BOOSTER HEATER	12	3/4							EXTEND BOOSTER OUTPUT TO DISH MACHINE
9	NIC	SPARE NUMBER	-								
10	NIC	SPARE NUMBER	-								
11	1	DISH TABLE, CLEAN	-								
12	2	WALL SHELVES	-								
13	2	CLEAN UTENSIL STORAGE	-								
14	2	HAND SINK W/ SPLASH GUARDS	STND	1/2	1/2	2	2	3			
15	1	SINK, 3 COMPARTMENT, CORNER	15	1/2	1/2	2		3			EXTEND INDIRECT DRAIN TO FLOOR SINK
16	2	WALL SHELVES	-								
17	1	SINK, VEG PREP	15	1/2	1/2	2	3	3			EXTEND INDIRECT DRAIN TO FLOOR SINK
18	NIC	SPARE NUMBER	-								
19	NIC	SPARE NUMBER	-								
20	NIC	SPARE NUMBER	-								
21	2	WALL SHELVES	-								
22	1	WORK TABLE	-								
23	2	WALL SHELVES	-								
24	1	EXHAUST HOOD, TYPE 2	-								
25	1 LOT	WALL FLASHING BELOW HOOD	-								
26	1	STEAMER, 10 PAN	24		1/2	2		3	3/4	109K	FLEX GAS LINE BY KEC
27	1	CONVECTION OVEN, DOUBLE STACKED	24-48						3/4	75K ea	FLEX GAS LINE BY KEC
28	NIC	SPARE NUMBER	-								
29	NIC	SPARE NUMBER	-								
30	NIC	SPARE NUMBER	-								
31	NIC	CABINET, HEATED	-								
32	1	SERVING LINE, W/ BASE CABINET	-								
33	7	HEAT LAMPS	-								
34	1	CLEANING SUPPLIES STORAGE	-								
35	NIC	MOP SINK	STND	1/2	1/2						
36	NIC	HOSE BIB FOR CHEM DISPENSER	STND	1/2	1/2		2				
37	3	DRY STORAGE SHELVING	-								
38	NIC	SPARE NUMBER	-								
39	NIC	SPARE NUMBER	-								
40	NIC	SPARE NUMBER	-								
41	1	ICE MACHINE W/ BIN	60		1/2	2		3			EXTEND INDIRECT DRAIN TO FLOOR SINK
42	NIC	EMPLOYEE LOCKERS	-								
43	1	WALK IN COOLER	OOE	1/2		1		2			EXTEND INDIRECT WASTE TO FLOOR SINK
44	1	WALK IN COOLER EVAP COIL	-								
45	1	WALK IN COOLER CONDENSER	-								
46	3	WALK IN COOLER SHELVING	-								
47	4	GLASS DOORS W/ LED LIGHTING	-								
END OF ITEMS											
LEGEND: OOE = Out Of Floor AFF = Above Finished Floor OOC = Out Of Ceiling NIC = Not In Kitchen Contract KEC = Kitchen Equipment Contractor GC = General Contractor STND = Standard Height											

EXHAUST		HOOD					SCHEDULE		NOTES
ITEM #	HOOD SIZE: L x W x D	HOOD TYPE	CFM	EXHAUST COLLAR(S)	COLLAR OPENING	S.P. / COLLAR	GLOBE LIGHTS	LIGHT / FAN SWITCHES	
7	42x 42 x 24	2	600	1	6 x 6	0.50"	NA	NA	CONNECT FAN CONTROL RELAY TO DISH MACHINE TRIGGER, ADD DELAY CIRCUIT IF DESIRED
24									SEE CAPTIVE AIRE DRAWINGS
END OF ITEMS									THE HOOD RECOMMENDATION IS BASED ON INFO SUPPLIED TO KITCHEN TECH BY SSSD. STATING THERE WOULD BE NO COOKING OCCURRING IN THE KITCHEN, ONLY REHEATING OF PREVIOUSLY COOKED ITEMS.

EQUIPMENT		ELECTRICAL					SCHEDULE		NOTES
ITEM #	QTY.	DESCRIPTION	AFF	VOLT	AMP	PHASE	KW		
1	1	TRAY RETURN TABLE	-						
2	1	POS / CASHIER CART, MOBILE	-						
3	1	DISH TABLE, SOILED	-						
4	1	PRE RINSE SPRAYER	-						
5	1	DISPOSAL, 2 HP	12	208	9	1			
6	NIC	DISH MACHINE, HIGH TEMP	24	208	40	3			
7	1	CONDENSATE HOOD	-						
8	1	BOOSTER HEATER	12	208		3	7		
9	NIC	SPARE NUMBER	-						
10	NIC	SPARE NUMBER	-						
11	1	DISH TABLE, CLEAN	-						
12	2	WALL SHELVES	-						
13	2	CLEAN UTENSIL STORAGE	-						
14	2	HAND SINK W/ SPLASH GUARDS	-						
15	1	SINK, 3 COMPARTMENT, CORNER	-						
16	2	WALL SHELVES	-						
17	1	SINK, VEG PREP	-						
18	NIC	SPARE NUMBER	-						
19	NIC	SPARE NUMBER	-						
20	NIC	SPARE NUMBER	-						
21	2	WALL SHELVES	-						
22	1	WORK TABLE	48	115	20	1			UTILITY OUTLET
23	2	WALL SHELVES	-						
24	1	EXHAUST HOOD, TYPE 2	OOE	115	15	1			HOOD LIGHTS AND CONTROLS ONLY
25	1 LOT	WALL FLASHING BELOW HOOD	-						
26	1	STEAMER, 10 PAN	24	115	5	1			DIRECT CONNECT, NO GFCI
27	1	CONVECTION OVEN, DOUBLE STACKED	24-48	115	20	1			UNIT SUPPLIED WITH CORD AND PLUG
28	NIC	SPARE NUMBER	-						
29	NIC	SPARE NUMBER	-						
30	NIC	SPARE NUMBER	-						
31	NIC	CABINET, HEATED	24	115	20	1			UNIT SUPPLIED WITH CORD AND PLUG
32	1	SERVING LINE, W/ BASE CABINET	24	115	20	1			UTILITY OUTLET
33	7	HEAT LAMPS	OOE	115	7	1			
34	1	CLEANING SUPPLIES STORAGE	-						
35	NIC	MOP SINK	-						
36	NIC	HOSE BIB FOR CHEM DISPENSER	-						
37	3	DRY STORAGE SHELVING	-						
38	NIC	SPARE NUMBER	-						
39	NIC	SPARE NUMBER	-						
40	NIC	SPARE NUMBER	-						
41	1	ICE MACHINE W/ BIN	60	115	20	1			
42	NIC	EMPLOYEE LOCKERS	-						
43	1	WALK IN COOLER	OOE	115	10	1			LIGHTS ONLY
44	1	WALK IN COOLER EVAP COIL	OOE	115	3	1			
45	1	WALK IN COOLER CONDENSER	ROOF	208	12	3			
46	3	WALK IN COOLER SHELVING	-						
47	4	GLASS DOORS W/ LED LIGHTING	OOE	115	3	1			
END OF ITEMS									
LEGEND: OOE = Out Of Floor AFF = Above Finished Floor OOC = Out Of Ceiling NIC = Not In Kitchen Contract KEC = Kitchen Equipment Contractor GC = General Contractor ROOF = Exterior roof of building EXT = Exterior of building									



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Mechanical Engineer
BG BUILDINGWORKS
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Electrical Engineer
BG BUILDINGWORKS
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Seal

Steamboat Springs Middle School
39610 Amethyst Dr
Steamboat Springs, CO 80487

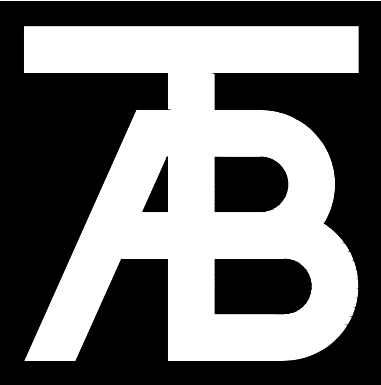
Revisions:		
No.	Description	Date

Issue Dates:
CD - 04/07/20

Sheet Title:
Kitchen Plumbing, Mech and Electrical

Project No:
1935.03

Sheet No:
FS102



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Seal

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39610 Amethyst Dr
Steamboat Springs, CO 80487

Revisions:		
No	Description	Date

Issue Dates:
CD - 04/07/20

Sheet Title:
Exhaust Hood

Project No:
1935.03

Sheet No:
FS103

REVISIONS

DESCRIPTION	DATE

Denver Office
7300 S Alton Way Building 5, Suite B, Centennial, CO, 80112 PHONE: (720) 570-0981 FAX: (919) 227-5999 EMAIL: reg42@captivair.com

Steamboat Springs MS - Steamboat Springs, CO
STEAMBOAT SPRINGS, CO, 80487

DATE: 2/14/2020
DWG.#:
4213819
DRAWN BY: MAR-42
SCALE:
3/4" = 1'-0"
MASTER DRAWING
SHEET NO.
1

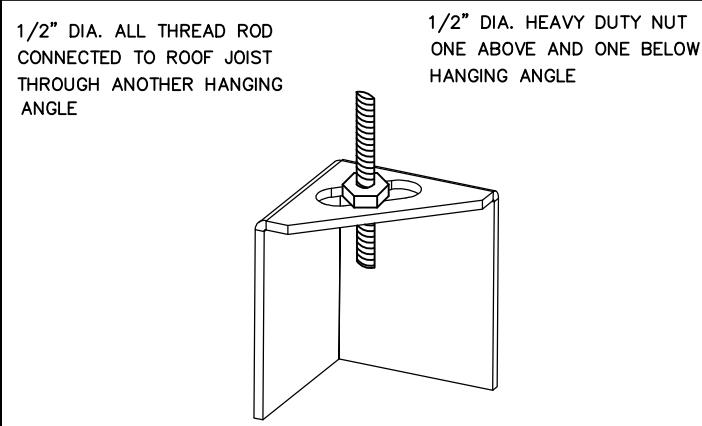
FOR QUESTIONS, CALL THE
COLORADO REGIONAL SALES OFFICE
7300 S. Alton Way, #5B, Centennial, CO 80112
PHONE: (720) 570-0981
FAX: (919) 227-5999

HOOD INFORMATION - Job#4213819

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TYPE	APPLIANCE DUTY	DESIGN CFM/R	TOTAL EXH. CFM	EXHAUST PLENUM							HOOD CONSTRUCTION	HOOD CONFIG.		SWITCHES	
									RISER(S)								END TO END	ROW	QUANTITY	LOCATION
									WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.		END TO END	ROW	QUANTITY	LOCATION
1		5424 VHB-G-ND	10' 0"	700 Deg.	II	N/A	150	1500			4"	12"	1500	1910	-0.249"	430 SS 100%	ALONE	ALONE	1 FAN	

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY
1							4	Recessed	NO					NO	325 LBS



*HOOD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PINCHED AT FACTORY

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY ND2	150	200	250
WITH END PANELS (15% reduction)	127.5	170	212.5
SLOPED SNO-2	228	294	-
ISLAND ND-2WI	269	300	350
NDI	346	422	475

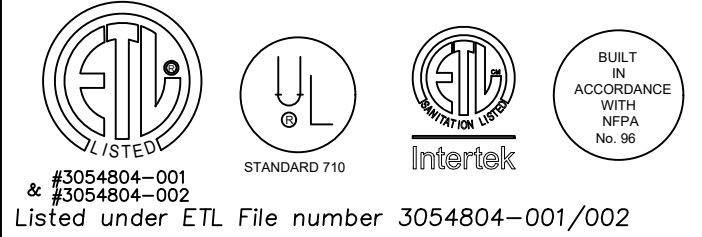
ETL HOOD LISTING DETAIL

EXHAUST CFM=LENGTH OF HOOD X CFM/IN.FT. (LOAD)
SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
TOTAL DUCT AREA=144 X
DUCT LENGTH= TOTAL DUCT AREA
DUCT DEPTH

*CAPTIVE-ARE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:



BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

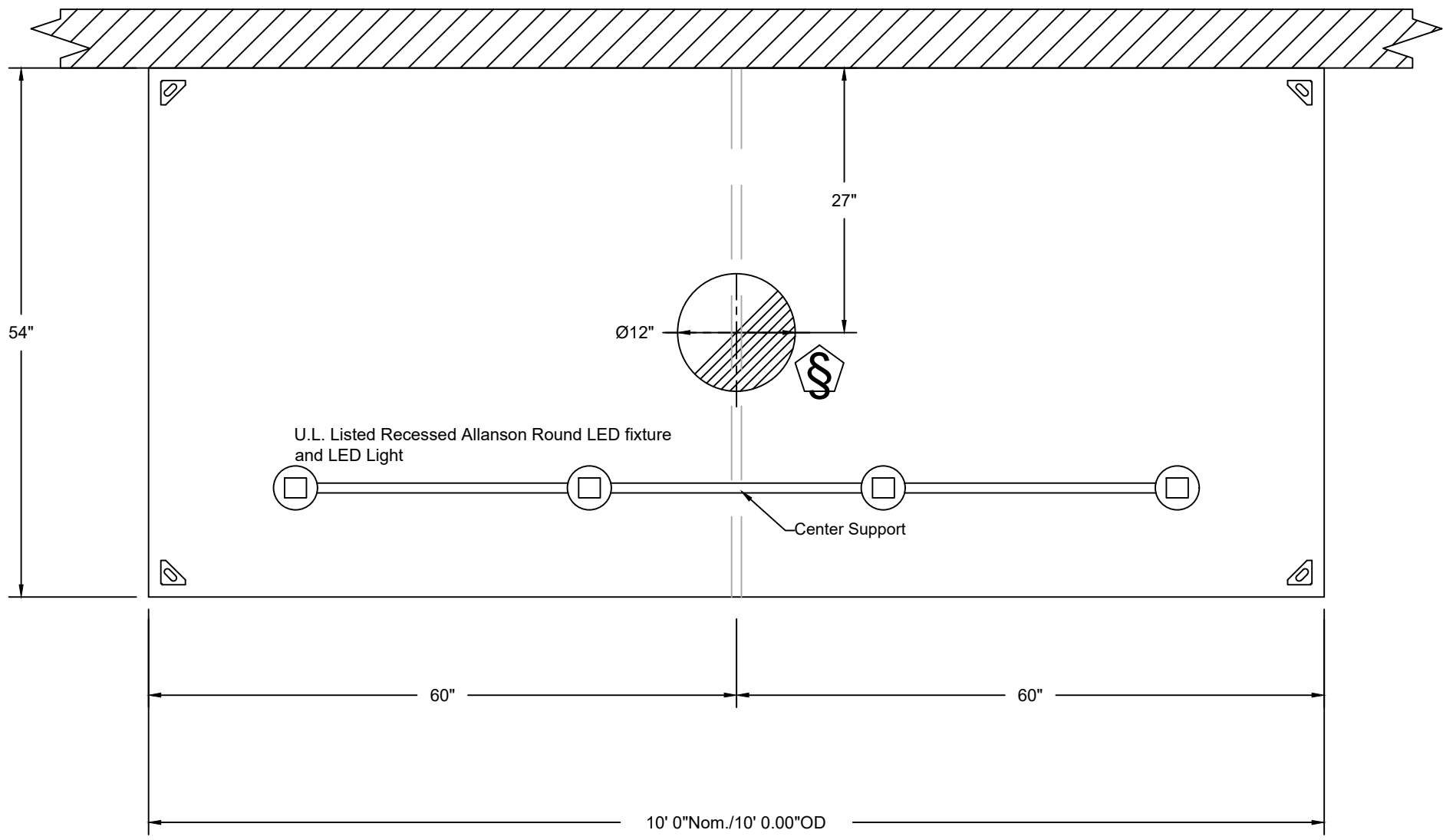
INSTALLATION

- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
- ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
- HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
- ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
- COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
- EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
- ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
- LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
- SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
- INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTENT, AND ADHERENCE TO ALL APPLICABLE CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

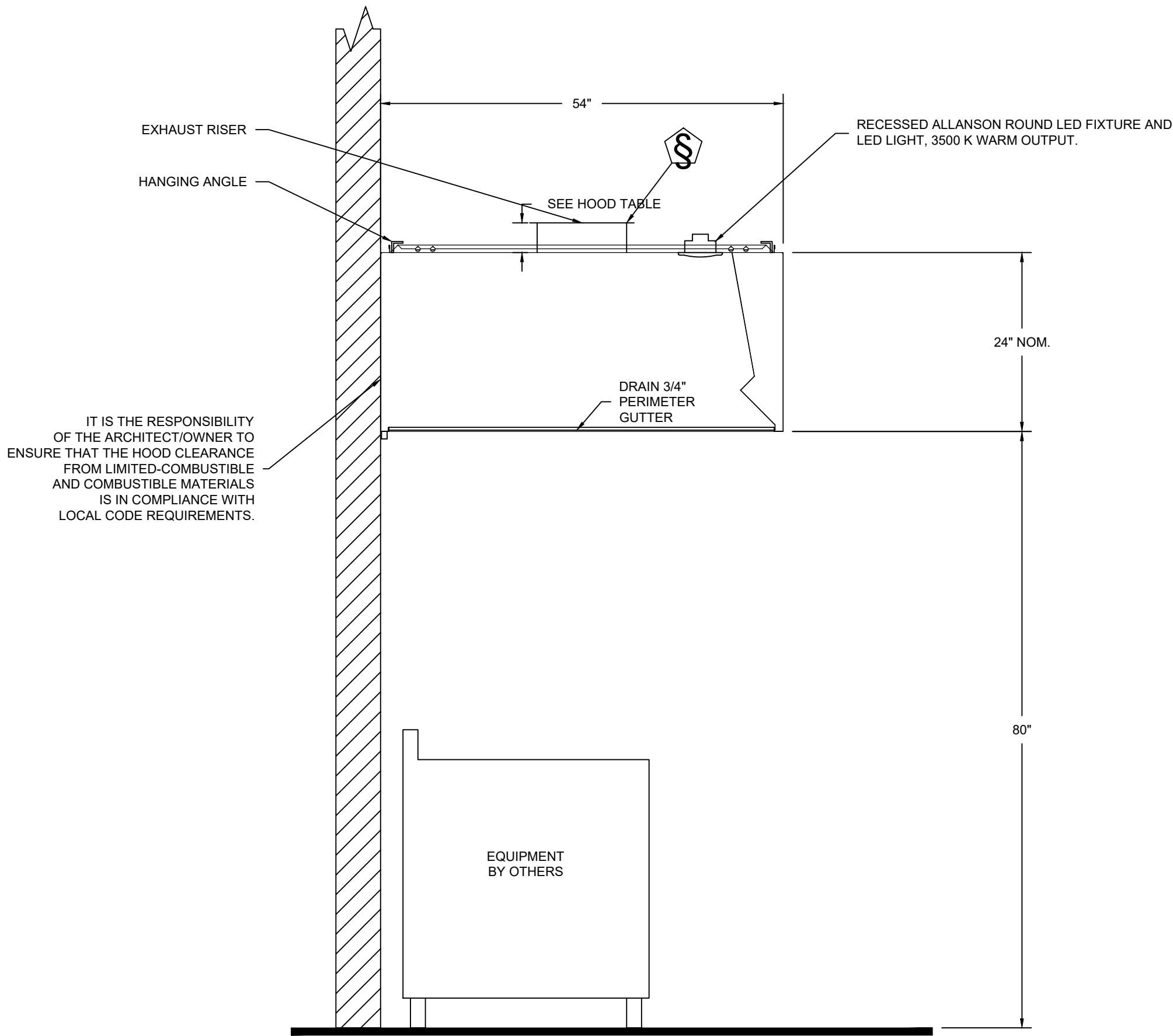
- BALANCE
- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
 - KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
 - RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

- ADDITIONAL
- WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
 - SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF INSTALLATION.

GENERAL NOTES



PLAN VIEW - Hood #1
10' 0.00" LONG 5424VHB-G-ND



SECTION VIEW - MODEL 5424VHB-G-ND
HOOD - #1

System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

