Burgin Independent School
Addition & Renovation

Burgin, Kentucky
for the
Burgin Independent Board of Education

440 E. Main Street Burgin, Kentucky 40310
p 859.748.5282

BG #19-262

RTA #1904

rosstarrant architects

101 old lafayette avenue
lexington, kentucky 40502
p 859.254.4018
www.rosstarrant.com

enhancing education through great design

STRUCTURAL ENGINEER:
STRUCTURAL DESIGN GROUP, INC.
220 Great Circle Road, Suite 106 Nashville, Tennessee 37228
p 615.255.5537

M.E.P. ENGINEER:
CMTA, INC.
2429 Members Way Lexington, Kentucky 40504
p 859.253.0892

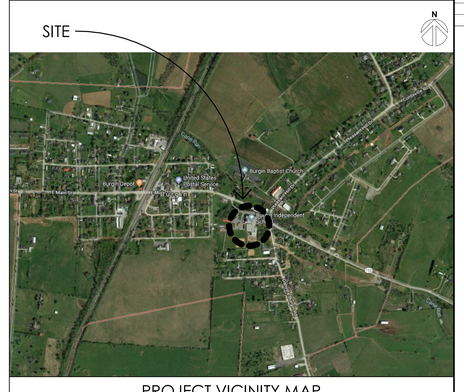
FOOD SERVICE CONSULTANT:
JOBY SMITH AND ASSOCIATES, INC.
8111 LeSourdsville-Westchester Road Westchester, Ohio 45069
p 513.778.7970

HARDWARE CONSULTANT:
CALVERT INDEPENDENT HARDWARE SPECIFICATIONS, LLC
307 Oakwood Circle Vine Grove, Kentucky 40175
p 502.930.2039

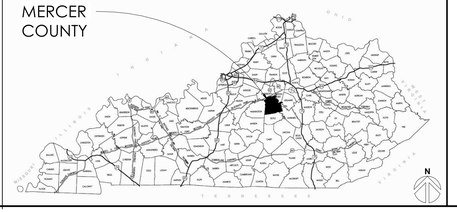
PROJECT SITE ADDRESS:

440 E Main Street
Burgin, Kentucky
40310

VICINITY MAP



PROJECT VICINITY MAP



INDEX OF DRAWINGS

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

COVER SHEET
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
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p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	BB
Rev'd By:	RM

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CONSTRUCTION DOCUMENTS

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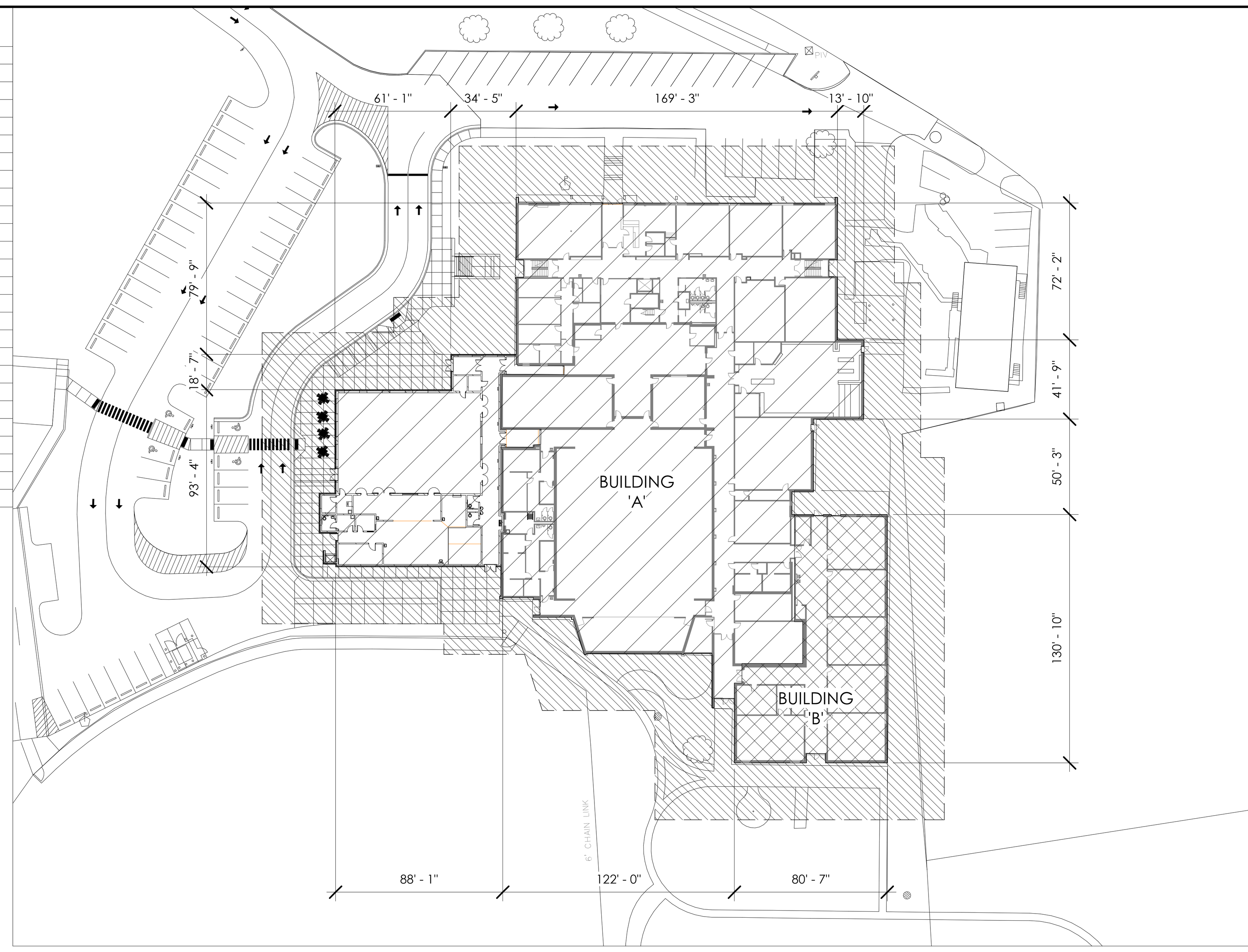
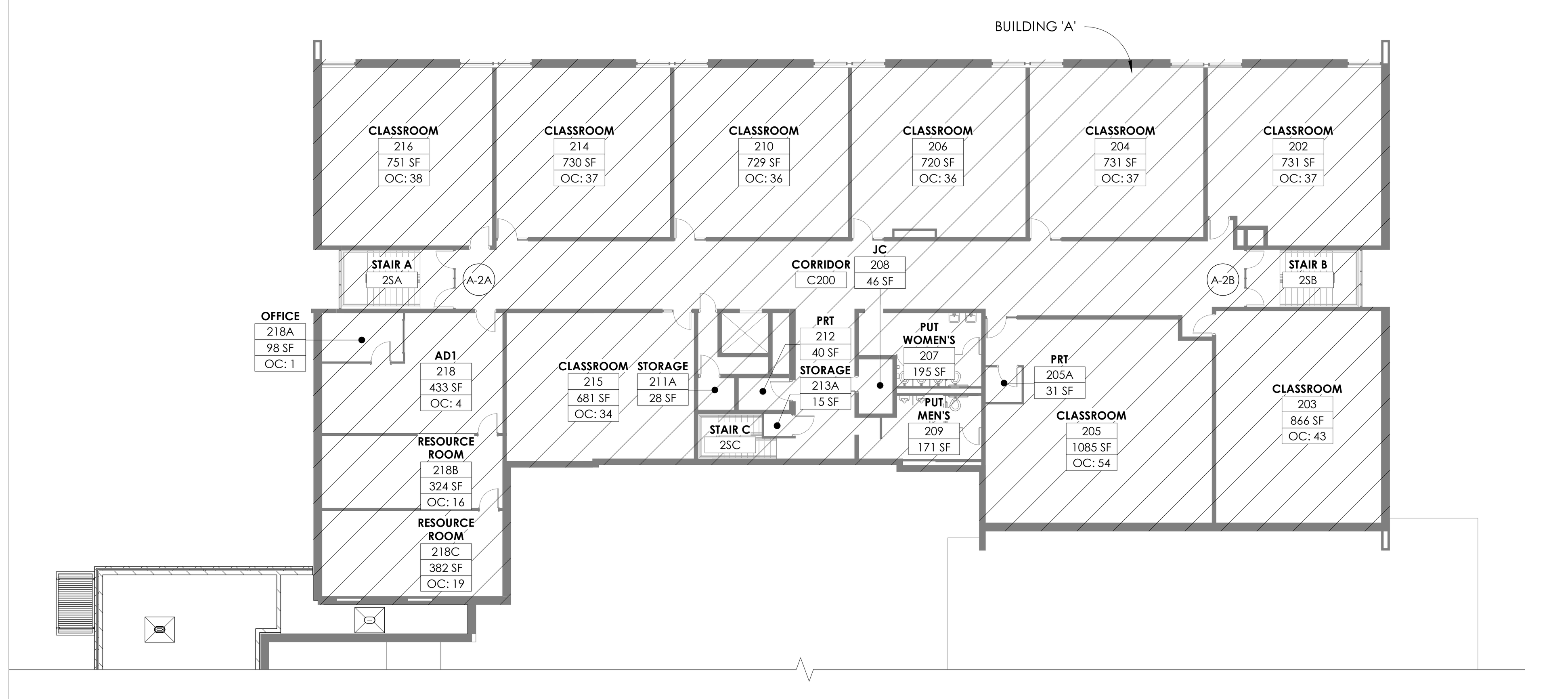
COVER SHEET

DATE ISSUED:
9/13/19

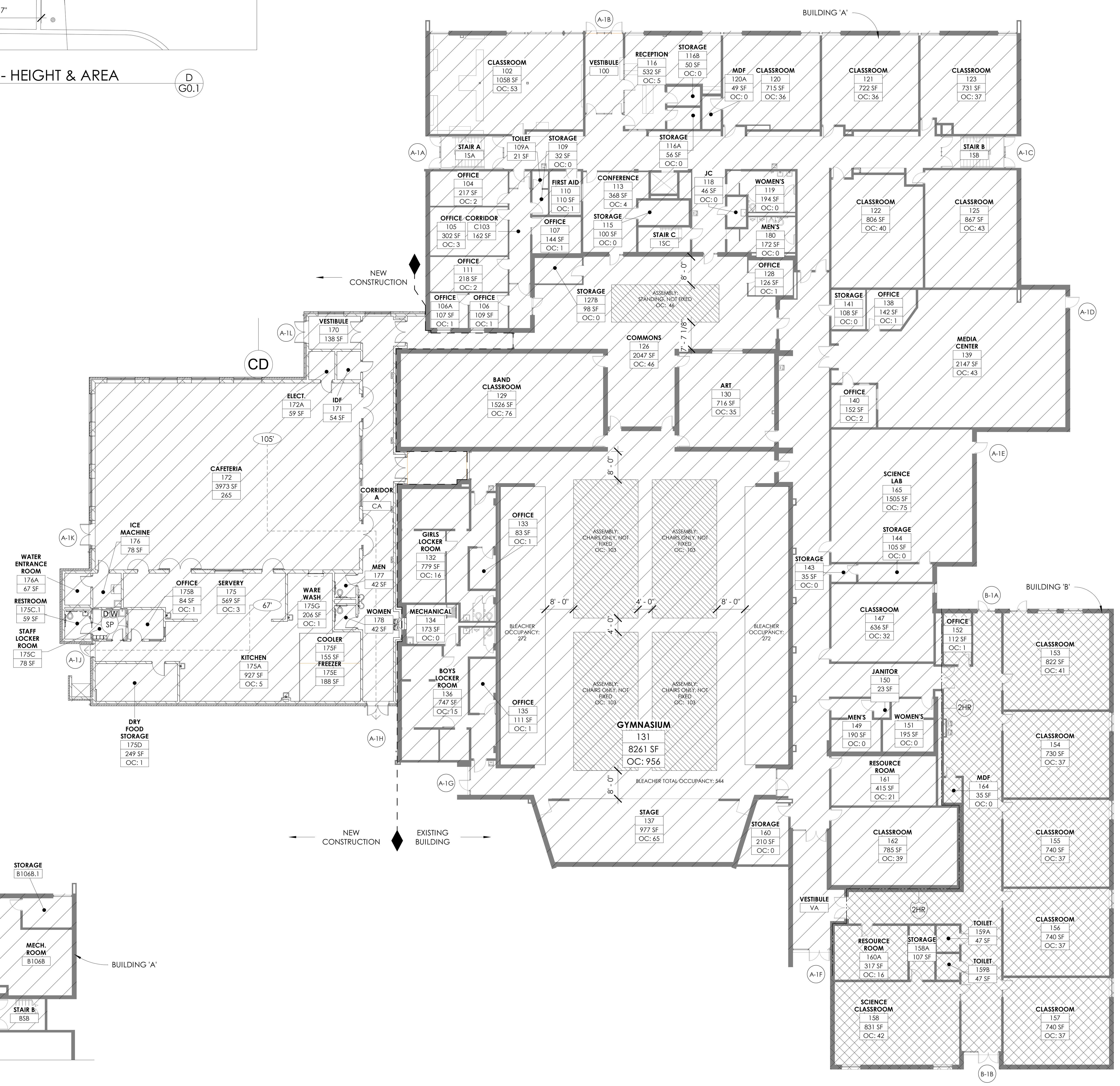
REVISIONS		
#	DATE	DESCRIPTION



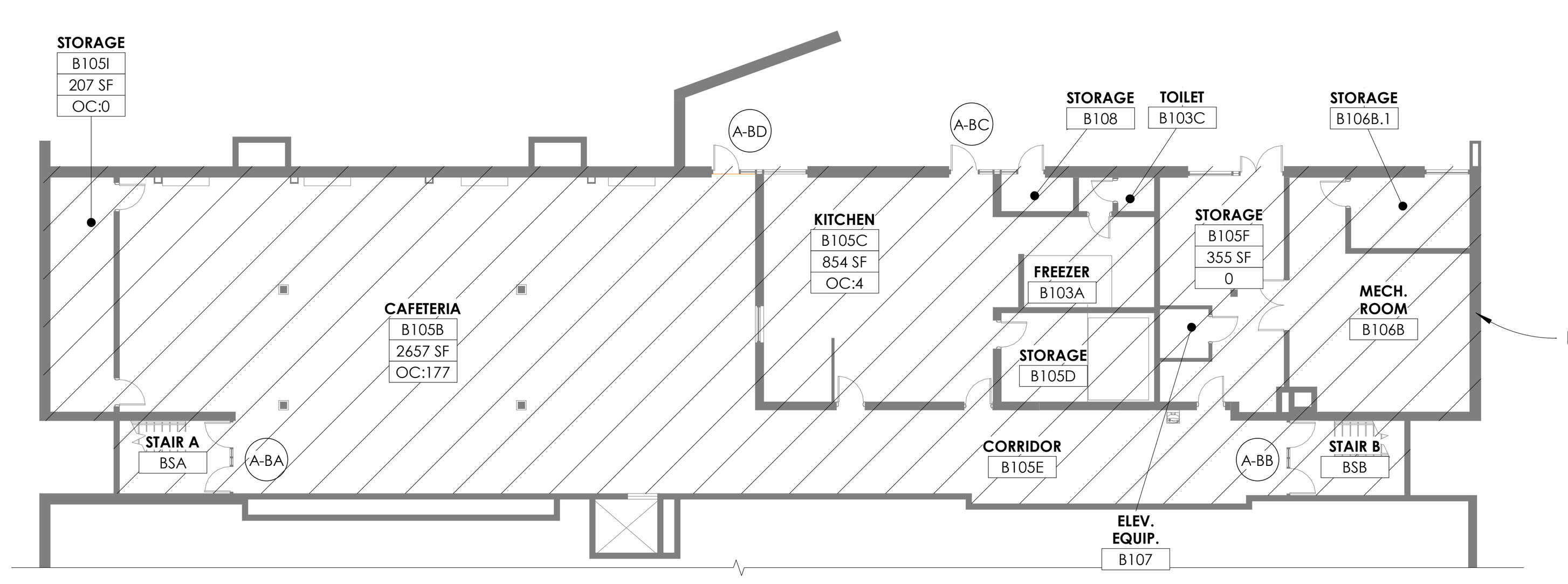
CODE REVIEW - HEIGHT & AREA (D / G0.1)
1" = 50'-0"



SECOND FLOOR REFERENCE PLAN (B / G0.1)
1/16" = 1'-0"



FIRST FLOOR REFERENCE PLAN (A / G0.1)
1/16" = 1'-0"



BASEMENT REFERENCE PLAN (C / G0.1)
1/16" = 1'-0"

HEIGHT AND AREA CALCULATIONS

BUILDING: A

OCCUPANCY CLASSIFICATION: E CONSTRUCTION TYPE: IIB SPRINKLER: YES

BUILDING PERIMETER, P: 1106' OPEN PERIMETER, F: 713' WIDTH, W: 30'

ELEMENT	TABULAR VALUE	INCREASE FOR FRONTAGE	ALLOWABLE VALUE (SUM PREVIOUS COLUMNS)	ACTUAL VALUE
HEIGHT	75'	N/A	75'	34'
STORIES	3	N/A	3	3
AREA PER FLOOR	At = 43,500 SF	NS x [F/P - .25] x (W/30) 14,500 x [713/1106 - .25] x (30/30) = 5722 SF	[At + (NS x If)] x Sa = Aa 49,222 x 3 = 147,666 SF	Basement: 6,750 SF 1st FL: 47,997 SF 2nd FL: 12,065 SF

BUILDING: B

OCCUPANCY CLASSIFICATION: E CONSTRUCTION TYPE: IIB SPRINKLER: YES

BUILDING PERIMETER, P: 432' OPEN PERIMETER, F: 150' WIDTH, W: 30'

ELEMENT	TABULAR VALUE	INCREASE FOR FRONTAGE	ALLOWABLE VALUE (SUM PREVIOUS COLUMNS)	ACTUAL VALUE
HEIGHT	75'	N/A	75'	14'-8"
STORIES	3	N/A	3	1
AREA PER FLOOR	At = 43,500 SF	NS x [F/P - .25] x (W/30) 14,500 x [150/432 - .25] x (30/30) = 1409 SF	[At + (NS x If)] x Sa = Aa 44,909 x 3 = 134,727 SF	1st FL: 7,818 SF

CODES AND APPLICABLE STANDARDS

2018 KENTUCKY BUILDING CODE (BASED ON THE 2015 INTERNATIONAL BUILDING CODE)
2009 ICC/ANSI A117.1--ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
KENTUCKY STANDARDS OF SAFETY, LATEST EDITION
2012 INTERNATIONAL FIRE CODE (IFC), FOR NEW CONSTRUCTION AS PER KBC REQUIREMENTS
2012 INTERNATIONAL FIRE CODE FOR PORTABLE EXTINGUISHERS, SECTION 906
2012 INTERNATIONAL ENERGY CONSERVATION CODE (FOR USE WITH THE KENTUCKY BUILDING CODE ONLY)
2015 INTERNATIONAL MECHANICAL CODE
STATE BOILER CODES & REGULATIONS, LATEST EDITION
ASME BOILER, PRESSURE VESSEL, AND PRESSURE PIPING CODES, LATEST EDITION
KENTUCKY PLUMBING CODE, LATEST EDITION
2012 NFPA 01 - FIRE PREVENTION CODE
2010 NFPA 13 - SPRINKLER SYSTEMS
2010 NFPA 14 - STANDPIPE, HOSE SYSTEMS
2009 NFPA 54 - NATIONAL FUEL GAS
2017 NFPA 70 - NATIONAL ELECTRICAL CODE
2010 NFPA 72 - FIRE ALARM
UNITED LABORATORIES (UL) STANDARDS FOR FIRE RESISTANT CONSTRUCTION
AMERICAN STANDARDS AND TESTING METHODS (ASTM)
702 KAR 4:170 FACILITY PROGRAMMING AND CONSTRUCTION CRITERIA PLANNING GUIDE, KENTUCKY DEPARTMENT OF EDUCATION (KDE)

FIRE RESISTANCE REQUIREMENTS

FIRE RESISTANCE PER CONSTRUCTION TYPE: 2B

BUILDING ELEMENT:	FIRE-RESISTANCE RATING RQMT., HRS:
STRUCTURAL FRAME:	0
BEARING WALLS, EXTERIOR:	0
BEARING WALLS, INTERIOR:	0
NONBEARING WALLS & PARTITIONS, EXTERIOR:	0
NONBEARING WALLS & PARTITIONS, INTERIOR:	0
FLOOR CONSTRUCTION, INCL. SUPPORTING BEAMS & JOISTS:	0
ROOF CONSTRUCTION, INCL. SUPPORTING BEAMS & JOISTS:	0

ADDITIONAL FIRE-RESISTANT CONSTRUCTION PER 2013 KBC OR KDE REQMT.

FIRE-RESISTANT ASSEMBLY TYPE:	FIRE-RESISTANCE RATING RQMT., HRS:
FIRE WALL	2
FIRE BARRIERS	
VERTICAL EXIT ENCLOSURE	1
VERTICAL SHAFT, INCL. ELEVATOR	1
RECORDS ROOM IN ADMIN AREA (PER KDE)	2
CORRIDORS	N/A DUE TO SPRINKLER

SMOKE-TIGHT CONSTRUCTION REQUIRED FOR INCIDENTAL USE AREAS AS FOLLOWS:

INCIDENTAL USE AREA:
FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU/HR INPUT
ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HP
REFRIGERANT MACHINERY ROOM
LABORATORIES AND VOCATIONAL SHOPS

*NOTE: THE ABOVE REQUIRE ONLY SMOKE-TIGHT CONSTRUCTION PER KBC DUE TO AUTOMATIC SPRINKLER

EGRESS COMPONENT TABLE

COMP. #	COMPONENT TYPE	REQUIRED WIDTH PER OCCUPANT	# OF OCCUPANTS	REQUIRED EGRESS WIDTH	MINIMUM PROPOSED EGRESS WIDTH	EXITS TO:
BUILDING A-SECOND FLOOR: 392 OCCUPANTS						
A-2A	STAIR	.2"	196	39.4"	64"	EXIT DISCHARGE
A-2B	STAIR	.2"	196	39.4"	64"	EXIT DISCHARGE
BUILDING A-FIRST FLOOR: 1967 TOTAL OCCUPANTS + 392 OCCUPANTS FROM FLOORS ABOVE + 88 OCCUPANTS FROM BASEMENT						
A-1A	STAIR	.2"	304	60.8"	64"	EXIT DISCHARGE
A-1B	DOOR	.15"	163	24.45"	64"	EXIT DISCHARGE
A-1C	STAIR	.2"	315	63"	64"	EXIT DISCHARGE
A-1D	DOOR	.15"	43	6.45"	32"	EXIT DISCHARGE
A-1E	DOOR	.15"	75	11.25"	32"	EXIT DISCHARGE
A-1F	DOOR	.15"	420	63"	64"	EXIT DISCHARGE
A-1G	DOOR	.15"	212	31.8"	32"	EXIT DISCHARGE
A-1H	DOOR	.15"	381	57.15"	64"	EXIT DISCHARGE
A-1J	DOOR	.15"	11	1.65"	32"	EXIT DISCHARGE
A-1K	DOOR	.15"	133	19.95"	64"	EXIT DISCHARGE
A-1L	DOOR	.15"	390	58.50"	64"	EXIT DISCHARGE
BUILDING A - BASEMENT FLOOR: 181 TOTAL OCCUPANTS						
A-BA	STAIR	.2"	44	8.8"	64"	EXIT DISCHARGE
A-BB	STAIR	.2	44	8.8"	64"	EXIT DISCHARGE
A-BC	DOOR	.15"	4	.6"	32"	EXIT DISCHARGE
A-BD	DOOR	.15"	89	13.35"	32"	EXIT DISCHARGE
BUILDING B - FIRST FLOOR: 248 TOTAL OCCUPANTS						
B-1A	DOOR	.15"	116	23.2	32"	EXIT DISCHARGE
B-1B	DOOR	.15"	132	26.4"	64"	EXIT DISCHARGE

EGRESS PLAN - SYMBOL KEY

ROOM NAME / ROOM NUMBER / GROSS/NET S.F. / # OCCUPANTS & OCCUPANCY TYPE — ROOM TAG W/ DESIGN OCCUPANCY NUMBER
NOTE: AREAS OF FIXED FURNITURE HAVE BEEN SUBTRACTED FROM TOTAL ROOM SQUARE FOOTAGE TO ARRIVE AT TOTAL NUMBER OF OCCUPANTS.

OCCUPANT TYPES
E - EDUCATION (NSF)
B - BUSINESS (GSF)
S - STORAGE (GSF)
K - KITCHEN (GSF)
L - LOCKER ROOM (GSF)
M - MERCANTILE (GSF)

* — INDICATES NON-CONCURRENT USE OCCUPANCY

COMPONENT SEE TABLE BELOW / FLOOR (#X) — EGRESS COMPONENT TAG

EGRESS PATH

(#) — TOTAL UNPROTECTED EXIT ACCESS TRAVEL DISTANCE

OPEN PERIMETER FRONTAGE

DEMARCATION LINE BETWEEN EXISTING & NEW CONSTRUCTION

DURATION OF FIRE-RESISTANCE (#HR) — FIRE PROTECTED AREA - I.E. ALL SURROUNDING WALLS ARE OF A FIRE-RESISTANT ASSEMBLY - SEE FIRE RESISTANCE REQUIREMENTS ABOVE FOR ADDITIONAL INFORMATION

* SEE A0.1 SHEET FOR ADDITIONAL FIRE-RESISTANCE SYMBOLS THAT MAY APPEAR ON THIS SHEET.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL — COMMONWEALTH OF KENTUCKY — ARCHITECT

CODE REVIEW
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
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p 859.253.0892

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BG# 19-262

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

G0.1

CODE REVIEW

DATE ISSUED:
9/13/19

REVISIONS		
#	DATE	DESCRIPTION

PHASE 1

NOTE: TIME FRAME MAY ALTER DEPENDING ON EXTERNAL FACTORS.

- (1A) TEMPORARY PARKING
  INSTALL: NOV. 14, 2019 - NOV. 27, 2019
  TO REMAIN: UNTIL 1C BEGINS
- (1B) STUDENT WALK
  INSTALL: NOV. 14, 2019 - NOV. 27, 2019
  TO REMAIN: UNTIL 1C & 1D ARE SUBST. COMPLETE
- (1C) BUILDING ADDITION INCLUDES ALTERNATES #4 & #5
  NOV. 14, 2019 - NOV. 12, 2020
- (1D) SITE: CONNECTION INCLUDES ALTERNATE #7
  MAY 18, 2020 - JULY 24, 2020
- (1E) SITE: PARKING
  MAY 18, 2020 - NOV. 12, 2020
- (1F) ALTERNATE #3 (MEDIA CENTER)
  MAY 18, 2020 - JULY 24, 2020

PHASE 2

NOTE: TIME FRAME MAY ALTER DEPENDING ON EXTERNAL FACTORS.
PHASE 1B TO BE COMPLETE BEFORE PHASE 2A IS TO BEGIN.

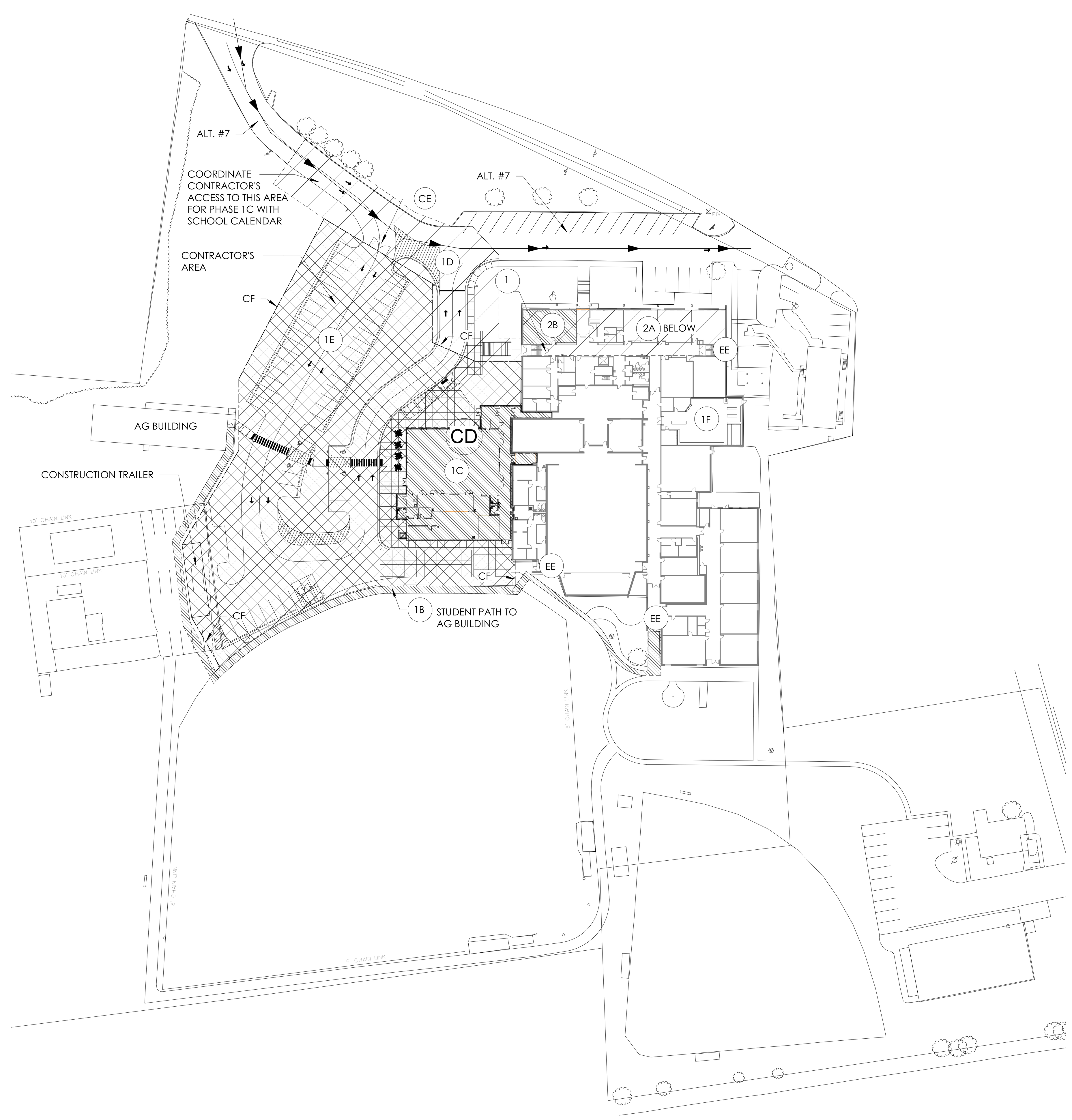
- (2A) ALTERNATE #1 (BASEMENT)
  DEC. 14, 2020 - JUNE 14, 2021
- (2B) ALTERNATE #2 (FMD/FIRST AID)
  DEC. 14, 2020 - JUNE 14, 2021

PHASING LEGEND

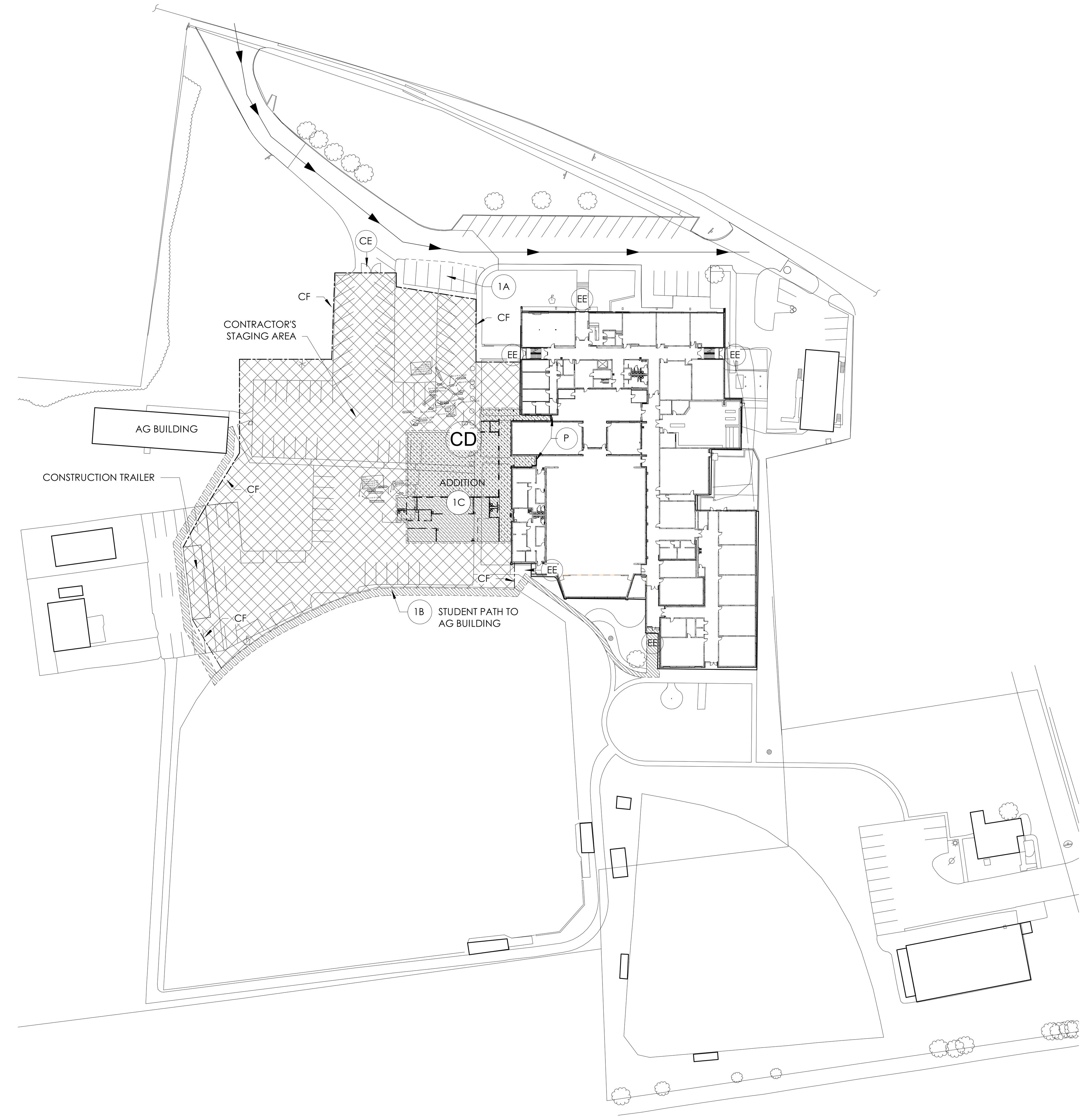
PARENT/BUS LOOP TRAFFIC	
STUDENT PATH	
CONSTRUCTION FENCE (CF)	
STUDENT ENTRANCE	(SE)
CONTRACTOR ENTRANCE	(CE)
EMERGENCY EXIT	(EE)

NOTE:

(P) CONSTRUCT PARTITION PER 015000 COORDINATE ALL FINAL MEANS OF EGRESS REQUIREMENT WITH CODE OFFICIAL.



SITE PLAN - PHASE 1& 2
1" = 60'-0"
B
G0.2



SITE PLAN - PHASE 1 - EARLY STAGE
1" = 60'-0"
A
G0.2

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL REGISTERED 4384 COMMONWEALTH OF KENTUCKY ARCHITECT

PHASING PLAN
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
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BG# 19-262

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

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PHASING PLAN

DATE ISSUED:
9/13/19

UTILITY OWNERS

WATER AND SANITARY SEWER

LAKE VILLAGE WATER ASSOCIATION INC
801 PLEASANT HILL DRIVE,
BURGIN, KY 40310
(859) 236-9505

MERCER SANITATION DISTRICT
801 PLEASANT HILL DRIVE,
BURGIN, KY 40310
(859) 748-9654

ELECTRIC

KENTUCKY UTILITIES
815 DIX DM RD,
HARRODSBURG, KY 40330
(859) 748-9933

NATURAL GAS

ATMOS ENERGY CORPORATION
449 WHIRLAWAY DR,
DANVILLE, KY 40422
(859) 236-2291

SURVEY NOTES

NOTE 1: SHOWN FROM BURGIN INDEPENDENT K-12 PHASE 2 2011 RENOVATION AND ADDITION SHEET SS-1, NOT BY SURVEY.

THE PURPOSE OF THIS SURVEY IS TO PROVIDE SITE IMPROVEMENT & TOPOGRAPHIC INFORMATION ONLY. THIS DOCUMENT DOES NOT REPRESENT A BOUNDARY SURVEY, IS NOT INTENDED FOR RECORDING OR LAND TRANSFER AND IS NOT INTENDED TO COMPLY WITH 201 KAR 18:150.

THE NORTH MERIDIAN & VERTICAL DATUM SHOWN HEREON ARE BASED ON GPS OBSERVATIONS MADE USING A TRIMBLE R10 AND TRIMBLE R8 NETWORK RECEIVER USING C.O.R.S. STATION "VRS". THE HORIZONTAL DATUM IS KENTUCKY STATE PLANE COORDINATE SYSTEM SOUTH ZONE (NAD 83) GRID NORTH. THE VERTICAL DATUM IS NAVD 88 (GEOID12B). THIS SURVEY CONTROL WAS ESTABLISHED ON MAY 15, 2019.

THIS SURVEY WAS CONDUCTED BY THE METHOD OF RANDOM TRAVERSE WITH SIDESHOTS . THE PRECISION RATIO OF THE TRAVERSE WAS 1:144,914 AND WAS NOT ADJUSTED.

THIS PROPERTY IS SUBJECT TO ALL EASEMENTS AND RIGHTS OF WAY BOTH RECORDED AND UNRECORDED.

DATE OF SURVEY: MAY 15, 2019

DISCLAIMERS

THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF A TITLE ABSTRACT. NO LIABILITY IS ASSUMED BY THE SURVEYOR FOR ANY LOSS THAT MAY BE DISCOVERED BY AN ABSTRACT OR TITLE SEARCH.

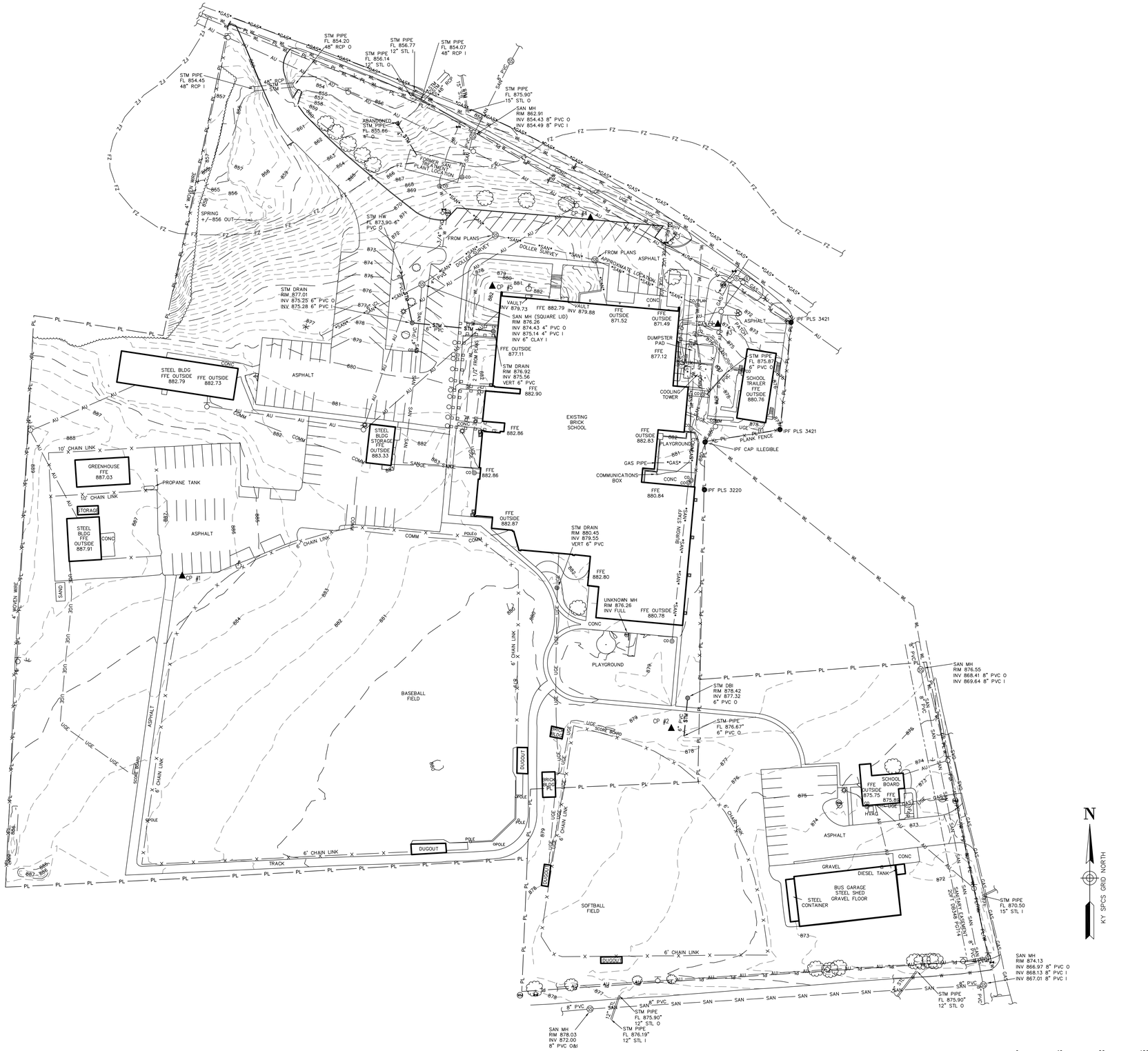
THE SUBSURFACE UTILITY LOCATIONS AND DESCRIPTIONS SHOWN HEREON WERE DETERMINED TO THE EXTENT POSSIBLE BY SURFACE OBSERVATIONS, LOCATION MARKINGS PROVIDED BY THE UNDERGROUND DETECTIVE (TUD) AND LOCATION MARKINGS PLACED BY KY 811 LOCATION SERVICE (TICKET NUMBER 190514013, DATED 05/14/2019). LINES SHOWN MAY VARY FROM THE LOCATIONS OUTLINED AND ADDITIONAL UTILITIES AND OR EASEMENTS MAY EXIST. NO LIABILITY IS ASSUMED BY THE SURVEYOR FOR ANY LOSS OR DAMAGE THAT MAY OCCUR DURING DESIGN OR CONSTRUCTION.

LAND SURVEYORS CERTIFICATION
I DO HEREBY CERTIFY THAT THIS EXHIBIT WAS PREPARED UNDER MY DIRECTION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SHOWN HEREON IS TRUE AND ACCURATE.

08/08/2019
ALAN W. LEAKE, P.L.S. #3032 DATE

SURVEY CONTROL POINT TABLE

CP #	Northing	Easting	Elevation	Description
1	2158355.637	1925552.480	886.45	IRON PIN SET
2	2158211.491	1926014.828	878.44	IRON PIN SET
3	2158593.737	1926058.914	873.82	IRON PIN SET
4	2158694.348	1925938.439	872.03	IRON PIN SET
5	2158629.738	1925845.641	881.72	IRON PIN SET



LEGEND

PL PL	APPROXIMATE PROPERTY LINE (SEE NOTE 1)
885	MAJOR CONTOUR
886	MINOR CONTOUR
STM STM	STORM SEWER
UGE UGE	UNDERGROUND ELECTRIC LINE (FROM TUD MARKS)
COMM	BURIED TELEPHONE / COMMUNICATIONS (FROM TUD MARKS)
W W W	WATERLINE (FROM TUD MARKS)
WL WL	WATERLINE (FROM PLANS)
SAN SAN	SANITARY SEWER LINE (FROM SURFACE OBSERVATIONS ONLY)
SAN *SAN*	SANITARY SEWER LINE (FROM PLAN PG. SS-1 PHASE 2-DOLLER SURVEY)
GAS *GAS*	GAS LINE (FROM PLANS)
GAS GAS	GAS LINE (FROM KY 811 MARKS)
AU AU	AERIAL UTILITY (FROM SURFACE OBSERVATIONS ONLY)
X X	FENCE LINE
	SANITARY EASEMENT DB 348 PG 714
FZ FZ	FLOOD ZONE A (FEMA MAP 21167C0145C EFF. 9/17/2008)
	STORM SEWER DROP INLET
	WATER VALVE
WM	WATER METER
	FIRE HOSE CONNECTION
	FIRE HYDRANT
PIV	POST INDICATOR VALVE
	WATER SPIGOT
	GUY WIRE
CP #	CONTROL POINT
	SANITARY MANHOLE
	DOWN SPOUT
	LIGHT POLE
	UTILITY POLE
	GAS VALVE
GM	GAS METER
CO	SANITARY CLEANOUT
	TREE (NOT TO SCALE)
	SIGN
	WIND GAUGE
	BOLLARD 3" (NOT TO SCALE)
	COLUMN 3" X 3" (NOT TO SCALE)
	FLAG POLE
	PROPERTY MONUMENT FOUND
	DOWNSPOUT
E	ELECTRIC METER

2020 LIBERTY ROAD, SUITE 105
LEXINGTON, KY 40505
(859) 293-5318

CLIENT:
BURGIN INDEPENDENT SCHOOL BOARD
440 N MAIN STREET
BURGIN, KENTUCKY 40310

STATE OF KENTUCKY
ALAN W LEAKE 3032
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DESCRIPTION	DATE	BY	CHK	APV

SCALE: 1"=40'	DATE: 08/08/2019
DRAWN BY: WSL	CHECKED BY: MDG
DESIGNED BY: NA	APPROVED BY: AWL

TOPOGRAPHIC SURVEY

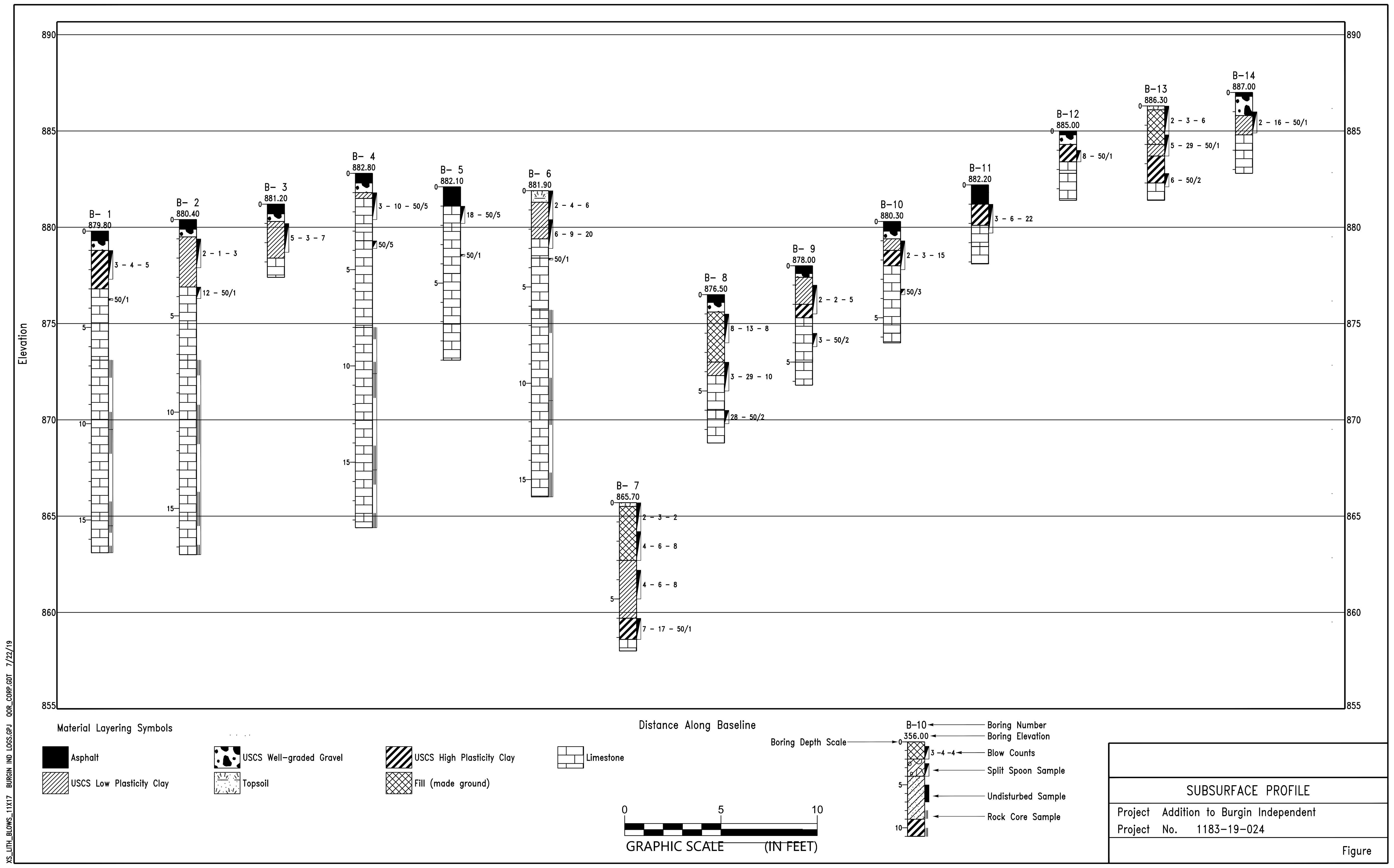
BURGIN INDEPENDENT SCHOOL
440 E MAIN STREET
BURGIN, KENTUCKY 40310

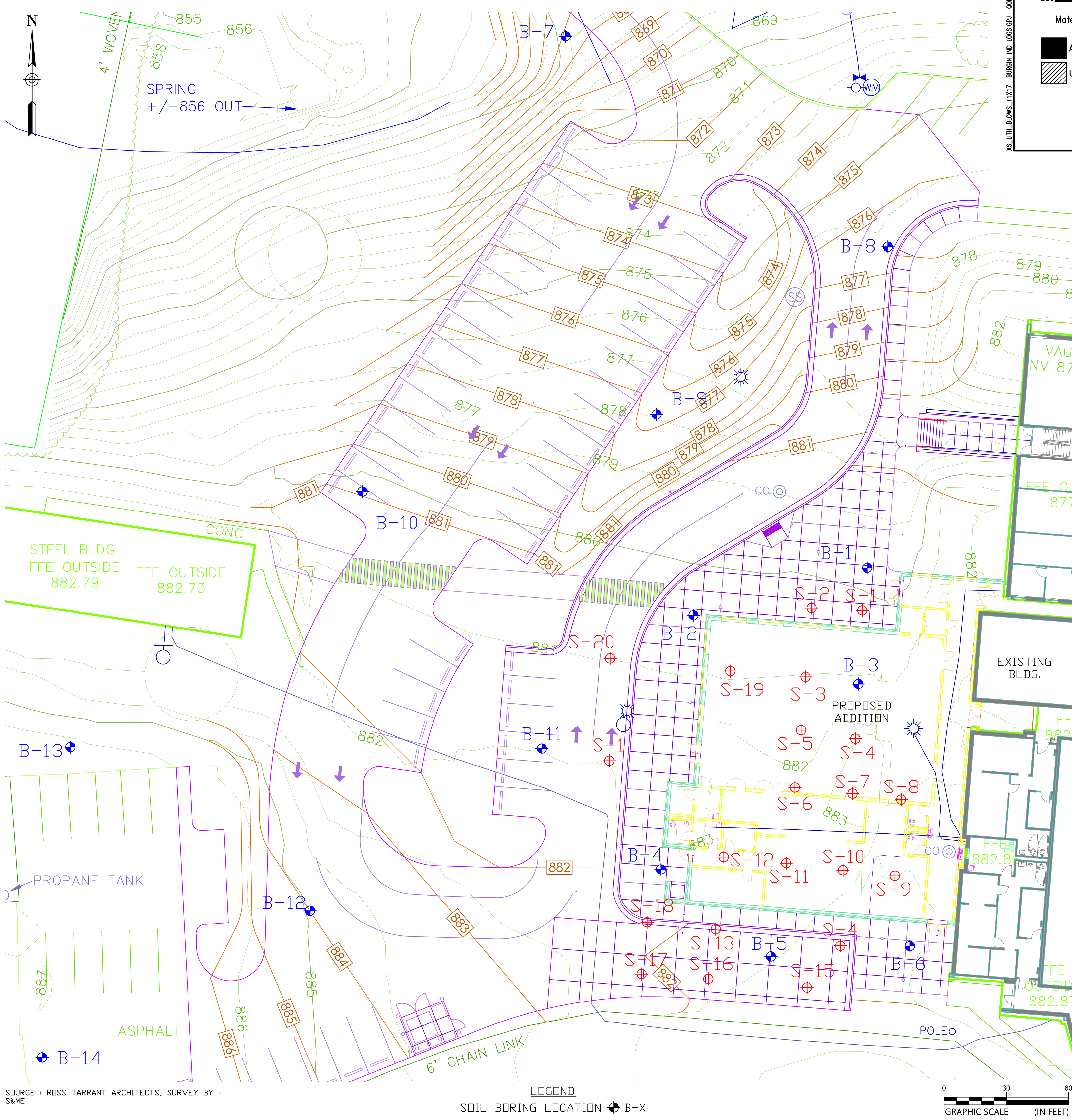
PROJECT NUMBER
7283-19-009

SHEET NUMBER
1

REVISIONS

#	DATE	DESCRIPTION





Burgin Independent School Addition

Boring and Sounding Summary

S&ME Project Number 1183-19-024

	Surface Elev. (ft)	Top of Weathered Rock Depth (ft)	Top of Weathered Rock Elev. (ft)	Auger Refusal Depth (ft)	Auger Refusal Elev. (ft)	Asphalt Thick (in)
B-1	879.8	3.5	876.3	6.7	873.1	6
B-2	880.4	4.1	876.3	7.3	873.1	6
B-3	881.2	2.8	878.4	3.8	877.4	6
B-4	882.8	2.4	880.4	8.0	874.8	6
B-5	882.1	1.3	880.8	9.0	873.1	5
B-6	881.9	3.6	878.3	6.2	875.7	-
B-7	865.7	7.1	858.6	7.7	858.0	-
B-8	876.5	4.2	872.3	7.7	868.8	5
B-9	878.0	2.7	875.3	6.2	871.8	5
B-10	880.3	2.3	878.0	6.3	874.0	6
B-11	882.2	2.1	880.1	4.1	878.1	4.5
B-12	885.0	1.6	883.4	3.6	881.4	2
B-13	886.3	2.6	883.7	4.9	881.4	-
B-14	887.0	2.2	884.8	4.2	882.8	3
S-1	880.3	2.4	877.9	5.1	875.2	4
S-2	880.2	2.7	877.5	4.8	875.4	3.5
S-3	880.9	2.6	878.3	3.3	877.6	6
S-4	881.7	2.8	878.9	5.7	876.0	4
S-5	881.6	1.4	880.2	6.4	875.2	4
S-6	882.3	1.6	880.7	9.0	873.3	4
S-7	882.1	2.6	879.5	6.0	876.1	3
S-8	881.9	2.2	879.7	3.9	878.0	-
S-9	881.9	1.7	880.2	4.6	877.3	-
S-10	882.2	2.3	879.9	4.3	877.9	3.5
S-11	882.4	1.3	881.1	5.3	877.1	5
S-12	882.7	2.8	879.9	4.8	877.9	5
S-13	882.3	1.5	880.8	4.0	878.3	5
S-14	881.8	2.7	879.1	4.6	877.2	6
S-15	881.7	2.4	879.3	4.3	877.4	4
S-16	882.2	2.5	879.7	5.0	877.2	5
S-17	882.5	4.5	878.0	5.4	877.1	5
S-18	882.6	5.3	877.3	6.9	875.7	6
S-19	881.0	2.8	878.2	6.9	874.1	4
S-20	881.1	1.7	879.4	6.1	875.0	3.5
S-21	882.0	1.7	880.3	6.4	875.6	4

rosstarrant architects

GEOTECHNICAL BORING LOGS

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR: BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

M.E.&P. Engineer: CMTA, Inc.

Structural Engineer: Structural Design Group, Inc.

BG# 19-262

Project No: 1904

Drawn By: WSL

Rev'd By: AMF

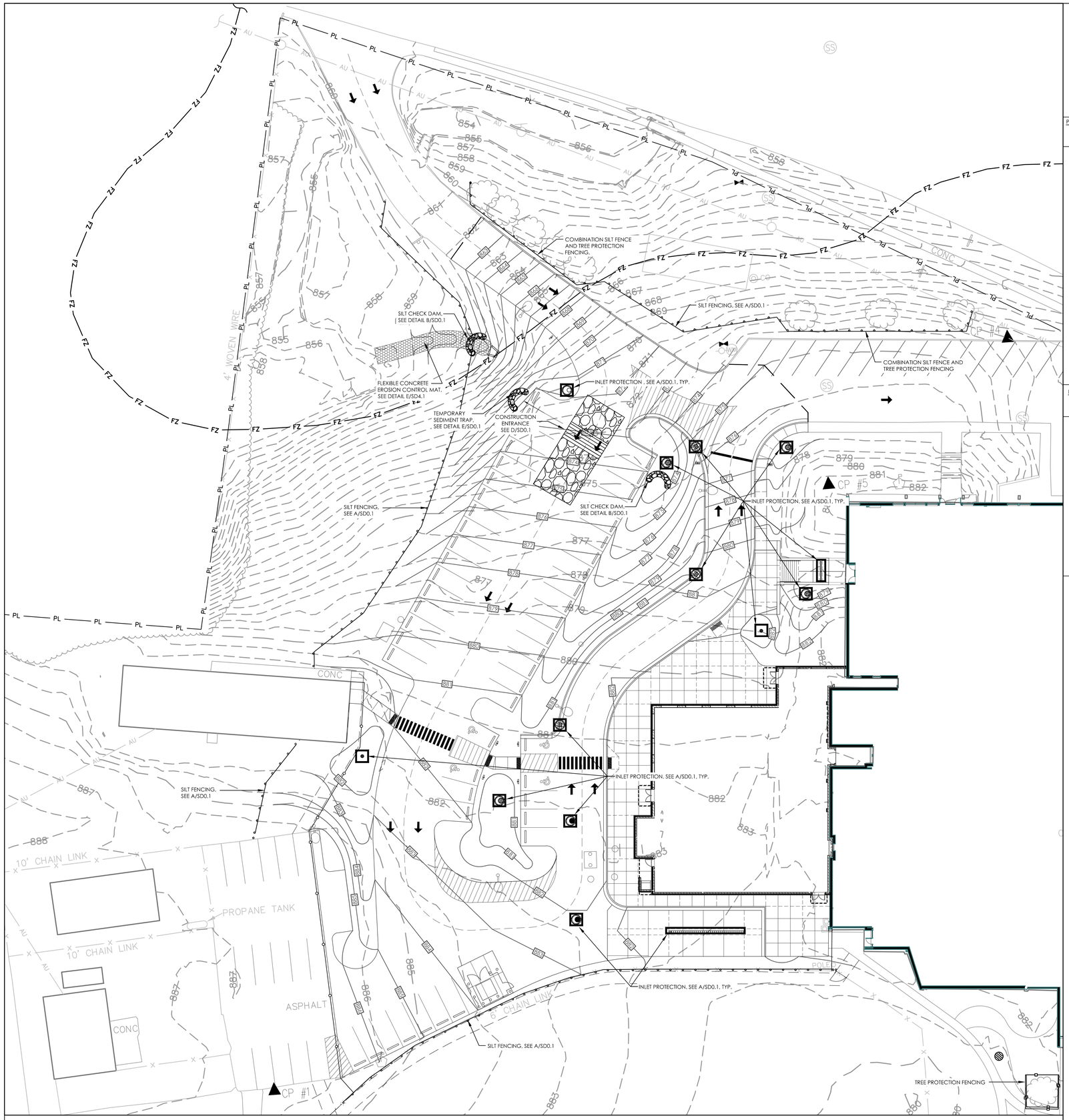
SHEET RELEASE

CONSTRUCTION DOCUMENTS

B 0.1

GEOTECHNICAL BORING LOGS

DATE ISSUED: 9/14/2019



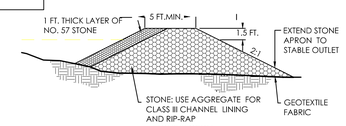
EROSION POLLUTION AND SEDIMENT CONTROL PLAN

SCALE : 1"=20'

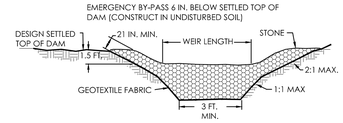
F SD0.1

0 20 40 Feet

PLAN SYMBOL



STONE SECTION



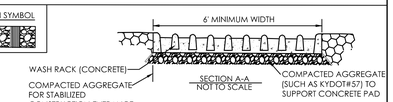
EMBANKMENT AND SPILLWAY ELEVATION

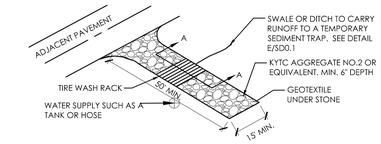
TEMPORARY SEDIMENT TRAP

SCALE : N.T.S.

E SD0.1

PLAN SYMBOL





CONSTRUCTION ENTRANCE

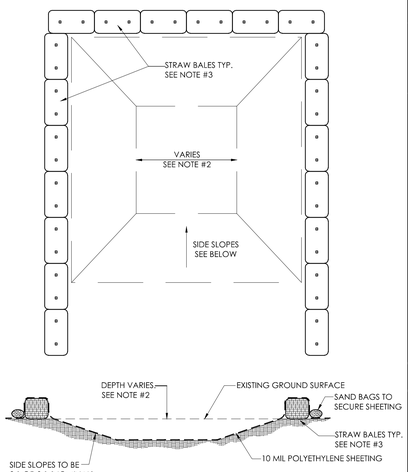
SCALE : N.T.S.

D SD0.1

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF CONTAINED. LOCATION TO BE COORDINATED WITH THE ARCHITECT AND THE OWNER.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREAS WITH THE EROSION POLLUTION AND SEDIMENT CONTROL PLAN AND SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACEMENT OF ANY CONCRETE.

   LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50-FEET FROM AND STREAM, WETLAND, STORM DRAINS OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOOD PLANE.

   SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, STRAW BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ARCHITECT, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING.
5. WASHOUT AREA(S) ARE TO BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RAIN EVENT OF 0.5-INCHES OR MORE, BUT NO LESS THAN ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS OR OVERFLOWS.
6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS AND GUIDELINES WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT.



CONCRETE WASHOUT AREA

SCALE : N.T.S.

C SD0.1

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY SM&E, 2020 Liberty Rd. Lexington, KY 40505. REFER TO SITE SURVEY SHEETS.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.

3. THE ARCHITECT AND ARCHITECTS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.

SITE BMP NOTES

1. CONTRACTOR IS TO PROVIDE ALL KPDES PERMITS, NOTICES OF INTENT (NOI'S) AND NOTICES OF TERMINATION INCLUDING EROSION AND SEDIMENT CONTROL PLANS FOR ALL PHASES OF CONSTRUCTION. ALL KPDES AND RELATED DIVISION OF WATER REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE PROJECT IS CLOSED OUT AND THE NOTICE OF TERMINATION APPROVED.

2. SEDIMENT CONTROL FENCING SHOWN AND REFERENCES TO SEDIMENT CONTROLS AT STORM WATER STRUCTURES AND ELSEWHERE ON THE DOCUMENTS ARE NOT TO BE USED FOR DIVISION OF WATER REQUIREMENTS. THESE REFERENCES ARE ONLY REQUIRED BY THE DESIGNER FOR PROPER MAINTENANCE OF THE STORM WATER SYSTEM AND TO MINIMIZE CLEANING OF THE SYSTEM AND PAVEMENTS.

3. EXISTING VEGETATION IS TO BE LEFT INTACT UNTIL CONSTRUCTION IN THAT PARTICULAR LOCATION IS REQUIRED. SOIL STABILIZATION PRACTICES (SEEDING, MULCHING, ETC.) ARE TO BEGIN WITHIN 14 DAYS OF PERMANENT COMPLETION OR TEMPORARY HALT (21 DAYS OR MORE) OF WORK IN ANY PARTICULAR AREA.

4. PERIMETER SEDIMENT AND EROSION CONTROLS ARE TO BE INSTALLED PRIOR TO THE START OF SITE CLEARING AND GRUBBING. EROSION CONTROLS SHALL BE IN ACCORDANCE WITH KENTUCKY DEPARTMENT OF HIGHWAY STANDARDS. CONTROL SHALL BE ACCOMPLISHED BY USE OF INTERCEPTOR DITCHES, DITCH SILT CHECKS, TEMPORARY SEEDING AND OTHER MEASURES AS MAY BE EFFECTIVE IN ACHIEVING THE DESIRED EFFECT. SILT FENCE SHALL BE INSTALLED TO PREVENT EROSION AND WASH-OFF ONTO WALKS, PAVEMENTS AND ALL ADJOINING PROPERTIES.

5. INSTALL SEDIMENT CONTROL FENCE OR SEDIMENT TRAPS AROUND ALL STORM WATER INLETS AND MAINTAIN UNTIL VEGETATION IS ESTABLISHED OR AREA PAVED AS APPROVED BY THE ARCHITECT. STORM WATER INLET PROTECTION IS TO BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF THE STRUCTURES. REMOVE PROTECTIONS AT THE COMPLETION OF THE PROJECT WHEN CONDITIONS NO LONGER WARRANT THEIR USE. SEE SD4 SHEETS FOR DETAILS.

6. TYPICAL SILT FENCE AND SEDIMENT TRAP INSTALLATION DETAILS ARE SHOWN ON THE SD4 SHEETS. SEE KDOH STANDARDS FOR INFORMATION CONCERNING THE STONE SILT CHECKS.

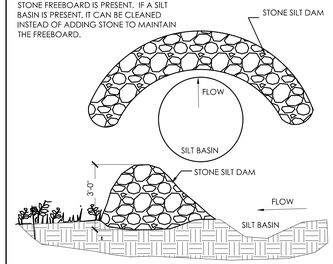
7. SEDIMENT CONTROLS ARE TO BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RAIN EVENT OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE PER WEEK. A LOG OF INSPECTIONS AND CLEANING IS TO BE KEPT ON SITE.

8.THE LOCATIONS OF SEDIMENT CONTROLS SHOWN ARE FOR GENERAL PROTECTION PRACTICES AND NOT AS PART OF A BMP PLAN. IF CONSTRUCTION ACTIVITIES PRODUCE CONDITIONS THAT REQUIRE ADDITIONAL CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE, INSTALL AND MAINTAIN THE CONTROLS UNTIL CONDITIONS NO LONGER WARRANT THEIR USE.

9. ALL STORM DRAINAGE CATCH BASINS, CURB INLETS, AND JUNCTIONS BOXES ARE TO RECEIVE PROTECTION FROM SEDIMENTATION. AT A MINIMUM A PERIMETER SILT FENCE SHOULD BE INSTALLED AROUND THE DRAINAGE STRUCTURE AND INSTALLED UNDER THE GRATE.

NOTES:

1.) STONE IS TO BE #3 OR LARGER.
2.) IF THE TRAP IS PLACED AROUND AN DROP INLET STRUCTURE, A SILT BASIN IS NOT REQUIRED.
3.) ADDITIONAL STONE IS TO BE ADDED AS IT BECOMES SILTED AND LESS THAN 18" OF STONE FREEBOARD IS PRESENT. IF A SILT BASIN IS PRESENT, IT CAN BE CLEANED INSTEAD OF ADDING STONE TO MAINTAIN THE FREEBOARD.

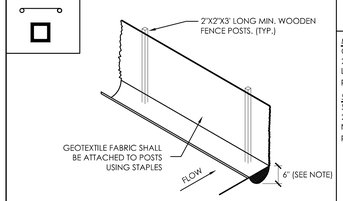


SILT CHECK DAM

SCALE : N.T.S.

B SD0.1

PLAN SYMBOL



NOTES:
1.) THE BOTTOM 12 INCHES OF THE FABRIC SHALL BE BURIED IN A 6" TRENCH CUT INTO THE GROUND COVERED BY 6" OF FILL MATERIAL TO PREVENT SEDIMENT FROM ESCAPING UNDER THE FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF THE FENCE.

SILT FENCE DETAIL

SCALE : N.T.S.

A SD0.1

LEGEND

- SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL A/SD0.1
- INLET PROTECTION, SEE A/SD0.1
- TREE PROTECTION FENCE. INSTALLED PER SPECIFICATIONS
- CHECK DAM - SEE DETAIL B/SD0.1

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

STATE OF KENTUCKY
MICHAEL B. MAYS
31048
LICENSED PROFESSIONAL ENGINEER
9/13/19

EROSION POLLUTION AND SEDIMENT CONTROL PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
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Structural Engineer:
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220 Great Circle Rd. Suite 106
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p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: MBM/KAM
Rev'd By: LMR/DPS

SHEET RELEASE

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CONSTRUCTION DOCUMENTS

SD0.1

EROSION POLLUTION AND SEDIMENT CONTROL PLAN
DATE ISSUED:
9/13/2019

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY SM&E, 2020 Liberty Rd, Lexington, KY 40505. REFER TO SITE SURVEY SHEETS.

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3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.

5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE DEMOLITION TAGS

0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- [a] BUILDING TO REMAIN. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
- [b] PAVEMENT TO REMAIN - PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS
- [c] TREE/VEGETATION TO REMAIN.
- [d] UTILITY TO REMAIN.
- [e] FLAG POLE.
- [f] FENCING TO REMAIN.
- [g] EXISTING WALL TO REMAIN

1 DEMOLISH AND REMOVE EXISTING TREE / SHRUB / DENSE VEGETATION, INCLUDING STUMPS.

2 EXISTING BUILDING TO BE DEMOLISHED AND REMOVED. EXISTING FOUNDATION TO BE COMPLETELY DEMOLISHED AND REMOVED.

3 DEMOLISH AND REMOVE EXISTING CONCRETE PAVEMENT. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT.

4 DEMOLISH AND REMOVE EXISTING ASPHALT PAVEMENT.

5 DEMOLISH AND REMOVE EXISTING CONCRETE BOLLARDS AND FOOTERS.

6 SALVAGE AND RETURN EXISTING WIND GAUGE TO OWNER.

7 STORM LINE/STRUCTURE TO BE DEMOLISHED AND REMOVED.

8 DEMOLISH AND REMOVE EXISTING CANOPY, SUPPORTS, AND FOUNDATIONS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS REGARDING BUILDING CONNECTIONS.

9 DEMOLISH AND REMOVE EXISTING CONCRETE RETAINING WALL. CUT AT EXISTING CONTROL JOINT AS SHOWN ON PLAN.

10 DEMOLISH & REMOVE EXISTING UTILITY LINE/STRUCTURE. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

11 DEMOLISH AND REMOVE EXISTING CONCRETE CURB.

LEGEND

- CONCRETE PAVEMENT DEMOLITION
- CONCRETE WALL DEMOLITION
- ASPHALT PAVEMENT DEMOLITION
- SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL C/SD3.1
- TREE PROTECTION FENCE. INSTALLED PER SPECIFICATIONS (311500)
- EXISTING VEGETATION TO BE DEMOLISHED.

SITE DEMOLITION PLAN
SCALE: 1"=20'

0 20 40 Feet

A SD0.2

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MICHAEL B. MAYS 31048 LICENSED PROFESSIONAL ENGINEER
9/13/19

SITE DEMOLITION PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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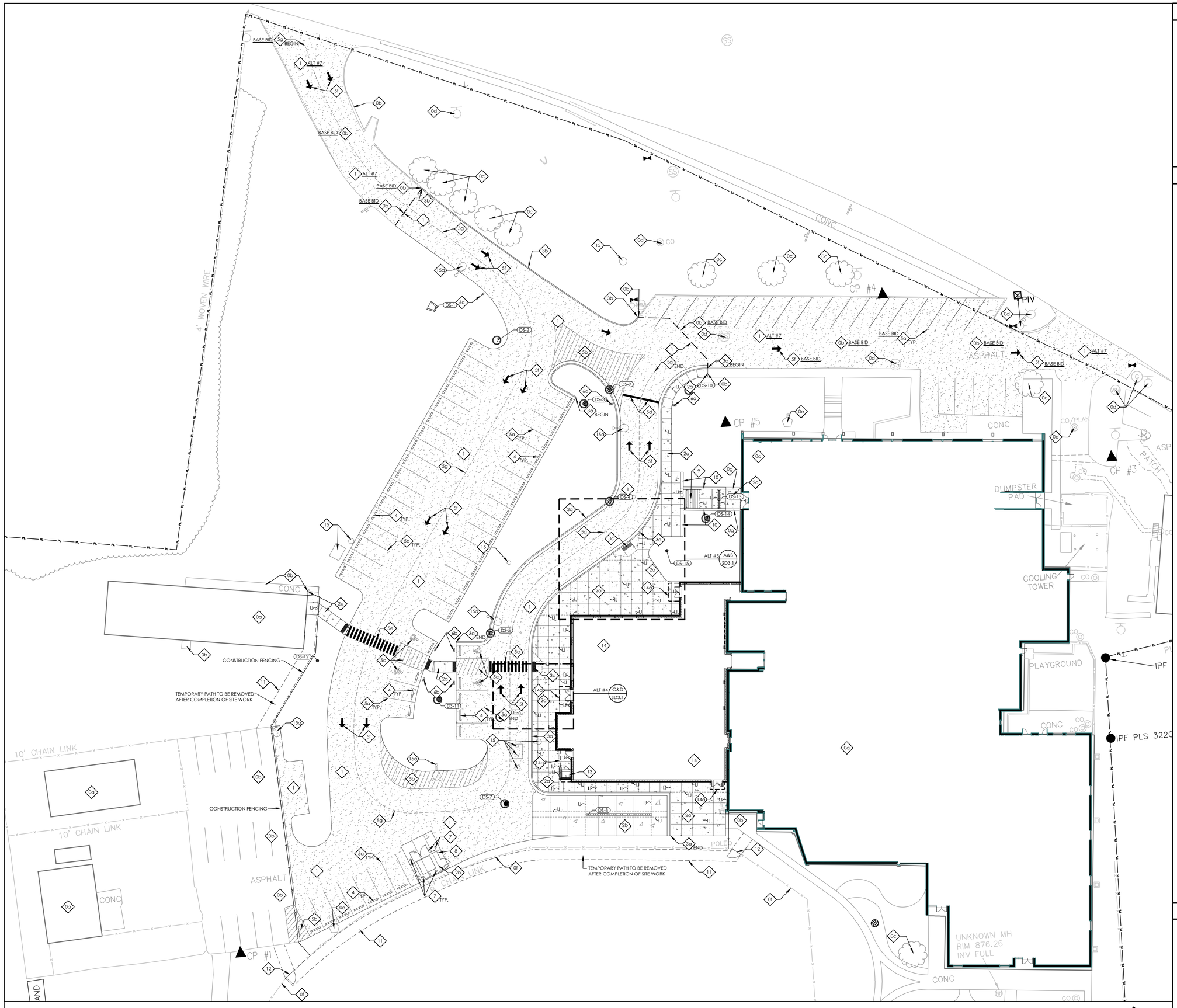
CONSTRUCTION DOCUMENTS

SD0.2

SITE DEMOLITION PLAN

DATE ISSUED:
9/13/2019



SITE DEVELOPMENT PLAN

SCALE : 1"=20'

0 20 40 Feet

A SD1.1

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY SM&E, 2020 Liberty Rd, Lexington, KY 40505. REFER TO SITE SURVEY SHEETS.

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5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

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- [c] TREE/VEGETATION TO REMAIN.
- [d] UTILITY TO REMAIN.
- [e] FLAG POLE.
- [f] FENCING TO REMAIN.
- [g] EXISTING WALL TO REMAIN.

1 ASPHALT PAVEMENT (321216) SEE DETAIL A/SD4.2

2 CONCRETE PAVEMENT (321313)
- [a] CONCRETE SIDEWALK. SEE DETAIL B/SD4.2
- [b] HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL, C/SD4.2

3 CONCRETE CURB (321313, 321613, 321726)
- [a] CURB AND GUTTER. SEE DETAIL D/SD4.2
- [b] CONCRETE HEADER CURB. SEE DETAIL E/SD4.2
- [c] ACCESSIBLE DROPPED CURB TYPE 'A' RAMP. SEE DETAILS G&H/SD4.2.

4 CONCRETE WHEEL STOP. SEE DETAIL F/SD4.2

5 PAINTED PAVEMENT MARKINGS. (321723.13)
- [a] 4" PAVING STRIPING. WHITE.
- [b] 4" STRIPE PAINTED ISLAND. YELLOW.
- [c] ACCESSIBLE PARKING STRIPING. SEE DETAIL J/SD4.2.
- [d] PAINTED TRAFFIC STOP BAR. 12"X12'. WHITE.
- [e] PAINTED CROSSWALK. SEE DETAIL K/SD4.2.
- [f] PAINTED DIRECTIONAL ARROW. SEE DETAIL O/SD4.2
- [g] 4" DASHED LANE DIVIDE STRIPING. WHITE.

6 TRAFFIC SIGNAGE (SINGLE POST). (101453)
- [a] STOP SIGN WITH DO NOT ENTER SIGN ATTACHED TO REAR. SEE DETAIL L/SD4.2.
- [b] ACCESSIBLE PARKING SIGN. 'VAN ACCESSIBLE' SIGN INCLUDED. SEE DETAIL N/SD4.2.
- [c] 'PARENT DROP OFF' SIGN WITH RIGHT TURN ARROW. SEE M/SD4.2.

7 CONCRETE FILLED BOLLARD. SEE DETAIL I/SD4.2

8 8'-0" HEIGHT DUMPSTER SCREEN AND ACCESS GATE. SEE DETAIL A&B/SD4.3

9 CONCRETE STAIR. SEE DETAIL C&D/SD4.3

10 CAST IN PLACE CONCRETE RETAINING WALL. SEE DETAIL J/SD4.3

11 TEMPORARY MULCH PATH. SEE G/SD4.3

12 CHAIN LINK GATE TO BE INSTALLED IN EXISTING FENCE. SEE H/SD4.3

13 CAN WASH STATION. SEE I/SD4.3

14 BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] BUILDING CANOPY

15 SITE UTILITY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] SITE LIGHTING

LEGEND

- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- ADA TACTILE WARNING PAD
- CONSTRUCTION FENCE. INSTALLED PER SPECIFICATIONS
- IJ ISOLATION JOINTS.

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KEVIN A. McCALLA 837 REGISTERED LANDSCAPE ARCHITECT STATE OF KENTUCKY 9/13/19

SITE DEVELOPMENT PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
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SD1.1

SITE DEVELOPMENT PLAN

DATE ISSUED:
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5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

LAYOUT POINTS

POINT #	NORTHING	EASTING	DECRIPTION
1	2158681.35	1925679.22	CEN RAD
2	2158689.05	1925720.19	CEN RAD
3	2158548.97	1925631.07	CEN RAD
4	2158422.92	1925597.57	CEN RAD
5	2158457.73	1925656.16	CEN RAD
6	2158464.92	1925752.38	CEN RAD
7	2158462.65	1925684.75	CEN RAD
8	2158454.02	1925682.88	CEN RAD
9	2158475.77	1925645.32	CEN RAD
10	2158661.78	1925755.23	CEN RAD
11	2158657.07	1925761.18	CEN RAD
12	2158637.34	1925750.85	CEN RAD
13	2158606.84	1925760.93	CEN RAD
14	2158508.01	1925771.32	CEN RAD
15	2158441.44	1925732.03	CEN RAD
16	2158256.80	1925733.01	CEN RAD
17	2158636.29	1925834.82	CEN RAD
18	2158650.37	1925763.23	EOP
19	2158530.90	1925682.84	EOP
20	2158478.83	1925658.80	EOP

SITE LAYOUT PLAN

SCALE: 1"=20'

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

STATE OF KENTUCKY
KEVIN A McCALLA 837
REGISTERED LANDSCAPE ARCHITECT
9/13/19

SITE LAYOUT PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
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BG# 19-262

Project No:	1904
Drawn By:	MBM/KAM
Rev'd By:	LMR/DPS

SHEET RELEASE

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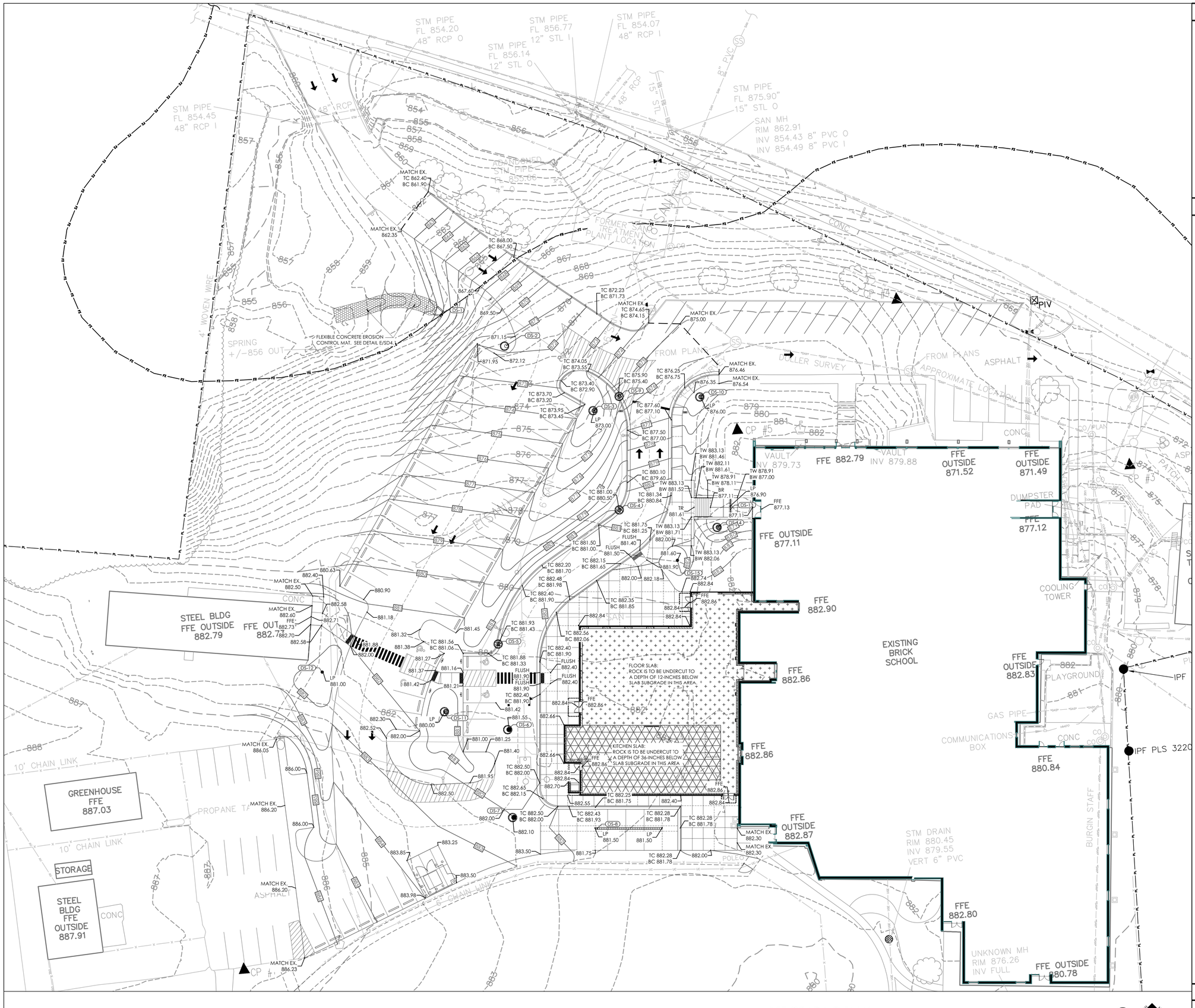
CONSTRUCTION DOCUMENTS

SD1.2

SITE LAYOUT PLAN

DATE ISSUED:
9/13/2019



SITE GRADING PLAN

SCALE : 1"=20'-0"

0 20 40 Feet

A SD2.1

SPOT ELEVATION LEGEND

TC - TOP OF CURB
BC - BOTTOM OF CURB
FFE - FINISHED FLOOR ELEVATION
TW - TOP OF WALL AT FINISH GRADE
BW - BOTTOM OF WALL AT FINISH GRADE
TF - TOP OF FOOTING (BELOW GRADE)
TR - TOP OF RISER
BR - BOTTOM OF RISER

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY SM&E, 2020 Liberty Rd, Lexington, KY 40505. REFER TO SITE SURVEY SHEETS.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS, REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.

3. THE ARCHITECT AND ARCHITECTS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.

5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE GRADING NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ACTUAL DEPTHS OF ALL EXISTING STORM DRAINS, GAS MAINS, WATER MAINS, AND PIPES TO ALL NEW CONNECTIONS AND CROSSINGS. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AREAS WHERE CONSTRUCTION OR GRADING MAY INTERFFRE WITH SUCH LINES.

2. ANY DISCREPANCIES BETWEEN THIS GRADING PLAN AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION OF ANY SORT. FAILURE TO NOTIFY THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION SHALL IMPLY THE CONTRACTOR'S VERIFICATION OF AND ACCEPTANCE OF EXISTING SITE CONDITIONS. SAID FAILURE TO NOTIFY THE ARCHITECT IN WRITING SHALL IDENTIFY AND HOLD HARMLESS THE OWNER FROM ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR DUE TO DISCREPANCIES NOT REPORTED WHICH COULD HAVE BEEN DETECTED BY PRUDENT AND REASONABLE OBSERVATION AND VERIFICATION BY THE CONTRACTOR.

3. ALL IMPERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF ONE PERCENT (1%) AND A MAXIMUM SLOPE OF SEVEN PERCENT (7%)

4. ALL PERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF TWO PERCENT (2 %) AND A MAXIMUM SLOPE OF THIRTY-THREE PERCENT (33%) EXCEPT WHERE SHOWN.

5. SLOPE PERVIOUS SURFACES MIN. 5 % AND IMPERVIOUS SURFACES MIN. 1% AWAY FROM BUILDING FOUNDATIONS.

6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO POND IN CONSTRUCTION AREAS.

7. RELOCATE ALL BURIED UTILITIES THAT ARE IMPACTED BY ANY EARTHWORK. RELOCATED UTILITY LOCATIONS ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO STARTING WORK.

8. PROTECT AREAS TO BE SEEDED AS FOLLOWS;
   A) DITCHES AND DRAINAGE SWALES ARE TO RECEIVE HIGH-VELOCITY EROSION-CONTROL BLANKETS.
   B) SLOPES 4:1 (H:V) OR GREATER ARE TO RECEIVE LONG- TERM EROSION-CONTROL BLANKETS.
   C) SLOPES BETWEEN 4:1 AND 6:1 (H:V) ARE TO RECEIVE SHORT-TERM EROSION CONTROL BLANKETS.
   D) SLOPES BELOW 6:1 (H:V) ARE TO RECEIVE STRAW MULCH PER THE SPECIFICATIONS. DO NOT USE HAY.

9. ANY AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SODDED PER THE SPECIFICATIONS.

10. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY AT PLUS OR MINUS TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT:

   A) UNDER FLOOR SLABS AND FOUNDATIONS ON STRUCTURAL FILL - 97%
   B) FILLS ON EXISTING SOILS, ROCK CUTS OR SHOT-ROCK FILL - 97%
   C) PAVED AREAS AND WALKS - 95%
   D) LANDSCAPE AREAS OUTSIDE MASS FILL AREAS - 85%

11. ALL TREES THAT ARE IDENTIFIED BY THE ARCHITECT TO REMAIN, EITHER ON THE DRAWING OR IN THE FIELD, ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TREES LOCATED OUTSIDE OF AREAS IDENTIFIED TO BE RE-GRADED ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS.

12. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND SEDIMENT ARE REMOVED DAILY FROM SITE DRIVEWAYS, PARKING AREAS, WALKWAYS AND SURROUNDING ROADWAYS AND WALKWAYS.

13. EXCESS SATISFACTORY SOILS ARE TO BE DISPOSED OF ON-SITE IN A LOCATION IDENTIFIED BY THE OWNER. THESE SOILS ARE TO BE SPREAD AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.

14. THE NEW PARKING, ROADS AND ROAD BASE ARE NOT DESIGNED TO ACCOMMODATE CONSTRUCTION TRAFFIC AND SHOULD NOT BE USED FOR SUCH UNLESS STABILIZED USING #2 CRUSHED STONE AND/OR GEO-GRID IN ADDITION TO THE PAVEMENT DESIGN SECTION SHOWN. IF THE CONTRACTOR WISHES TO USE THE NEW ROAD ALIGNMENTS DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO STABILIZE THE ROAD ALIGNMENT SUBGRADES AND PREVENT THEM FROM BEING DAMAGED DURING CONSTRUCTION.

15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A CRUSHED STONE ENTRY AND DRIVE TO REDUCE SOIL TRACKING.

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STATE OF KENTUCKY
MICHAEL B. MAYS
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FOR:
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SD2.1

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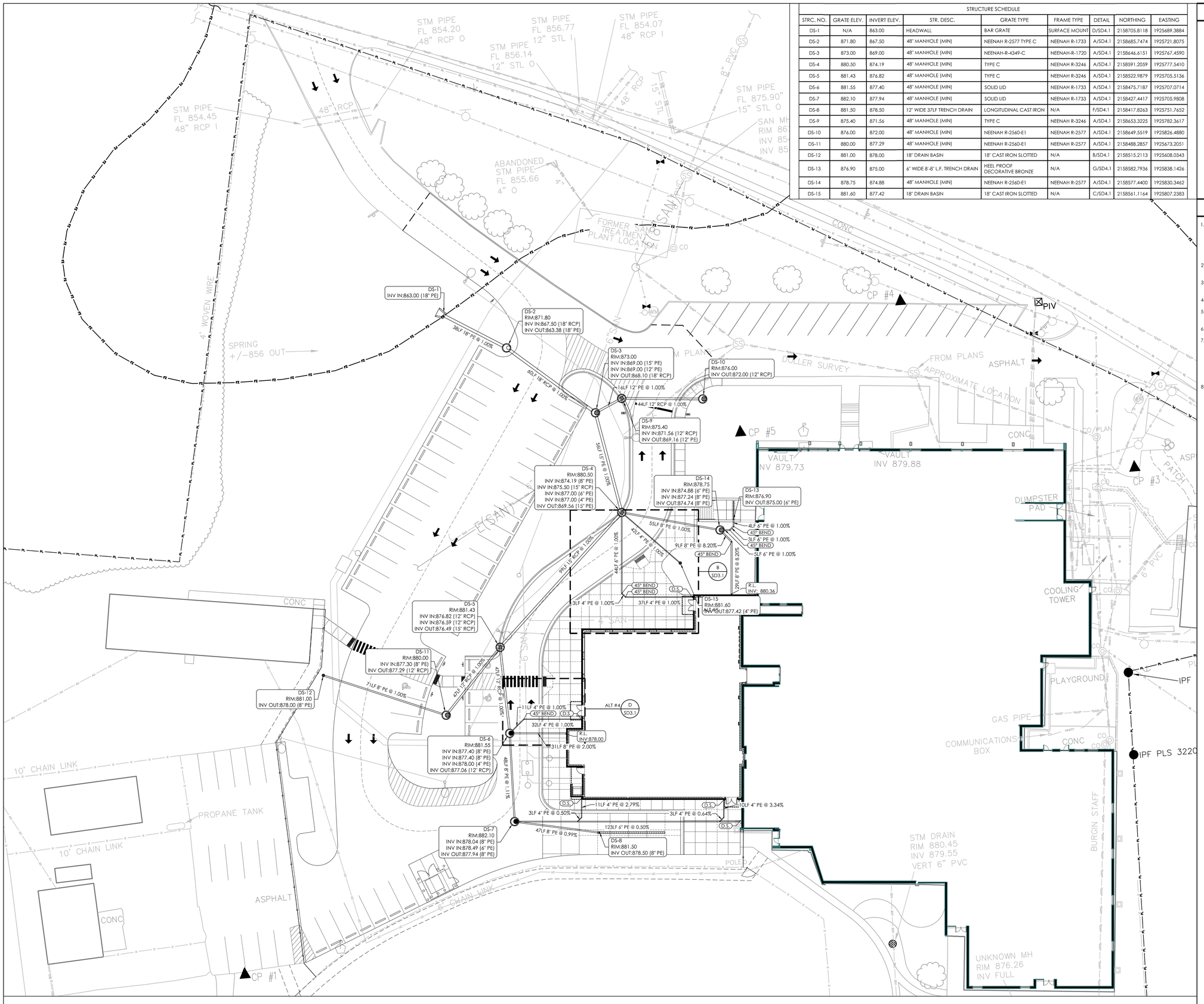

STRUCTURE SCHEDULE

STRC. NO.	GRATE ELEV.	INVERT ELEV.	STR. DESC.	GRATE TYPE	FRAME TYPE	DETAIL	NORTHING	EASTING
DS-1	N/A	863.00	HEADWALL	BAR GRATE	SURFACE MOUNT	D/SD4.1	2158705.8118	1925689.3884
DS-2	871.80	867.50	48" MANHOLE (MIN)	NEENAH R-2577 TYPE C	NEENAH R-1733	A/SD4.1	2158685.7474	1925721.8075
DS-3	873.00	869.00	48" MANHOLE (MIN)	NEENAH-R-4349-C	NEENAH-R-1720	A/SD4.1	2158646.6151	1925767.4590
DS-4	880.50	874.19	48" MANHOLE (MIN)	TYPE C	NEENAH R-3246	A/SD4.1	2158591.2059	1925777.5410
DS-5	881.43	876.82	48" MANHOLE (MIN)	TYPE C	NEENAH R-3246	A/SD4.1	2158522.9879	1925705.5136
DS-6	881.55	877.40	48" MANHOLE (MIN)	SOLID LID	NEENAH R-1733	A/SD4.1	2158475.7187	1925707.0714
DS-7	882.10	877.94	48" MANHOLE (MIN)	SOLID LID	NEENAH R-1733	A/SD4.1	2158427.4417	1925705.9808
DS-8	881.50	878.50	12" WIDE 37LF TRENCH DRAIN	LONGITUDINAL CAST IRON	N/A	F/SD4.1	2158417.8263	1925751.7652
DS-9	875.40	871.56	48" MANHOLE (MIN)	TYPE C	NEENAH R-3246	A/SD4.1	2158653.3225	1925782.3617
DS-10	876.00	872.00	48" MANHOLE (MIN)	NEENAH R-2560-E1	NEENAH R-2577	A/SD4.1	2158649.5519	1925826.4880
DS-11	880.00	877.29	48" MANHOLE (MIN)	NEENAH R-2560-E1	NEENAH R-2577	A/SD4.1	2158488.2857	1925673.2051
DS-12	881.00	878.00	18" DRAIN BASIN	18" CAST IRON SLOTTED	N/A	B/SD4.1	2158515.2113	1925608.0343
DS-13	876.90	875.00	6" WIDE 8'-8" L.F. TRENCH DRAIN	HEEL PROOF DECORATIVE BRONZE	N/A	G/SD4.1	2158582.7936	1925838.1426
DS-14	878.75	874.88	48" MANHOLE (MIN)	NEENAH R-2560-E1	NEENAH R-2577	A/SD4.1	2158577.4400	1925830.3462
DS-15	881.60	877.42	18" DRAIN BASIN	18" CAST IRON SLOTTED	N/A	C/SD4.1	2158561.1164	1925807.2383

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5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE DRAINAGE NOTES

1. DRAINAGE PIPE 12" INSIDE DIAMETER AND LARGER THAT CROSSES UNDER ROADS OR PARKING AREAS SHALL BE REINFORCED CONCRETE. ALL PE PIPE SHALL BE DUAL WALL POLYETHYLENE PIPE WITH SMOOTH INTERIOR WALL OR EQUIVALENT AS APPROVED IN THE SPECIFICATIONS. ALL STORM PIPING SHALL BE INSTALLED AT A CONSTANT, POSITIVE SLOPE FROM INLET CONNECTION TO DISCHARGED CONNECTION. PIPE SLOPE IS TO BE 0.5% MINIMUM.

2. SEDIMENT PROTECTION DEVICES, SUCH AS SILT FENCING SHALL BE INSTALLED IN AND/OR AROUND ALL STORM STRUCTURES REFER TO SHEET SD0.1.

3. EROSION CONTROL BLANKETS ARE TO BE INSTALLED AS INDICATED IN THE SPECIFICATIONS. (015713)

4. ALL STORM STRUCTURES ARE TO BE DESIGNED FOR H-20 LOADING.

5. ALL GRATES AND MANHOLE COVERS ARE TO BE HEAVY DUTY CAST IRON DESIGNED FOR H-20 LOADING.

6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES.

7. ALL ROOF DRAINS AND DOWNSPOUTS, INCLUDING CANOPY DOWNSPOUTS, ARE TO BE PIPED UNDERGROUND AND CONNECTED TO STORM WATER STRUCTURES. DOWNSPOUT BOOT AND DOWNSPOUT SIZES ARE TO BE COORDINATED WITH THE MANUFACTURERS AND INSTALLERS OF EACH ITEM. CLEANOUTS ARE TO BE LOCATED AT EACH CHANGE IN DIRECTION OF THE PIPING. ENSURE CLEANOUTS ARE DESIGNED FOR AUTOMOBILE TRAFFIC, AND ARE FLUSH WITH THE SURROUNDING SURFACES.

8. THE LOCATIONS SHOWN FOR THE NEW STORM SEWER PIPING AND STRUCTURES ARE APPROXIMATE. ACTUAL LOCATIONS CAN BE ADJUSTED WITH ARCHITECTS WRITTEN APPROVAL IN ORDER TO AVOID UNFORESEEN CONDITIONS OR OTHER CONSTRUCTION CONFLICTS. CONTRACTOR IS TO COORDINATE STORM SEWER INSTALLATION WITH ALL OTHER TRADES AND WORK.

LEGEND

(DS-#) DRAINAGE STRUCTURE. REFER TO STORM DRAINAGE STRUCTURE SCHEDULE.

(D.S.) DOWNSPOUT BOOT (334993). SEE DETAIL C/SD4.1

SITE DRAINAGE PLAN
SCALE: 1"=20'-0"

0 20 40 Feet

A SD2.2

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MICHAEL B. MAYS 31048 LICENSED PROFESSIONAL ENGINEER
STATE OF KENTUCKY
9/13/19

SITE DRAINAGE PLAN
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CONSTRUCTION DOCUMENTS

SD2.2

SITE DRAINAGE PLAN

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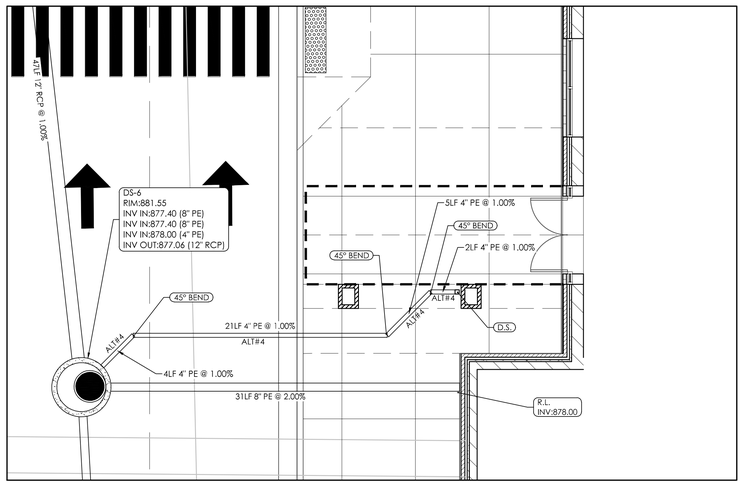
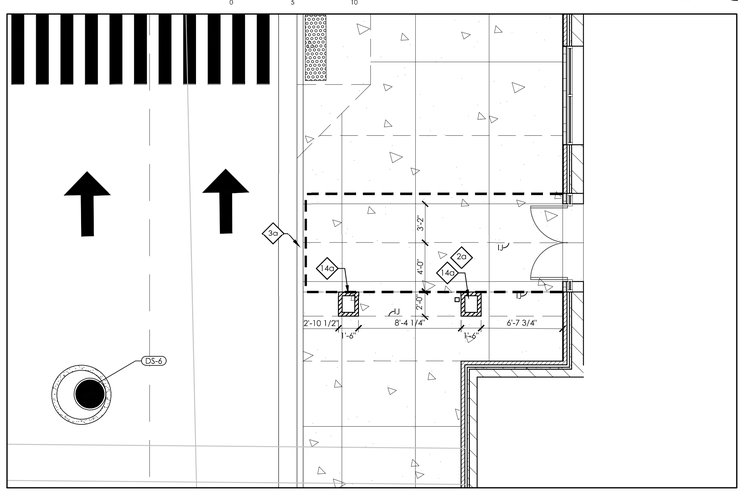


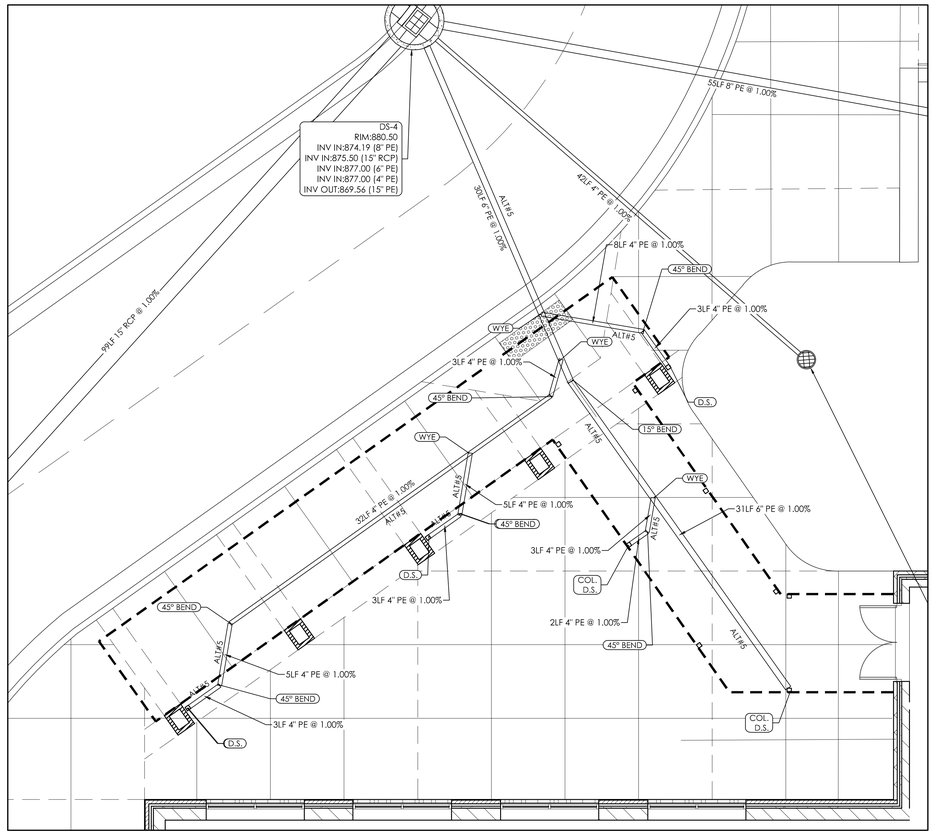
ALT #4 - SITE DRAINAGE PLAN

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



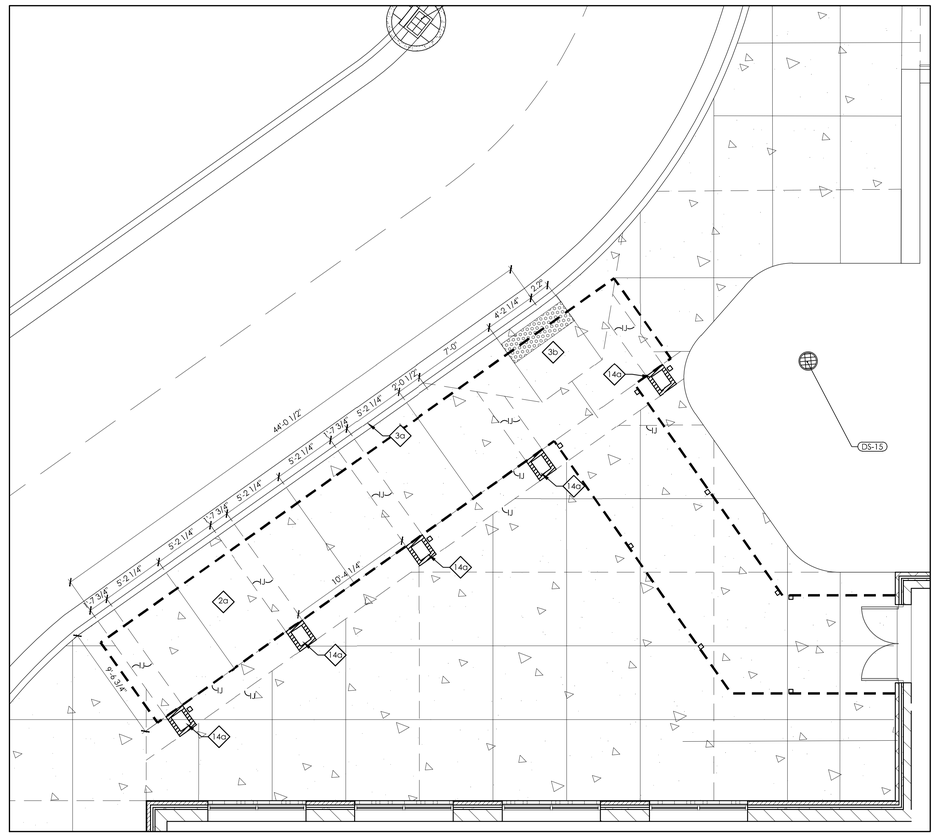
ALT #4 - ENLARGED SITE DEVELOPMENT AND LAYOUT PLAN

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



ALT #5 - SITE DRAINAGE PLAN

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



ALT #5 - ENLARGED SITE DEVELOPMENT AND LAYOUT PLAN

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

GENERAL SITE NOTES

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SITE DEVELOPMENT TAGS

0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- (a) BUILDING TO REMAIN. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
- (b) PAVEMENT TO REMAIN - PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS
- (c) TREE/VEGETATION TO REMAIN.
- (d) UTILITY TO REMAIN.
- (e) FLAG POLE.
- (f) FENCING TO REMAIN.
- (g) EXISTING WALL TO REMAIN.

1 ASPHALT PAVEMENT (321216) SEE DETAIL A/SD4.2

2 CONCRETE PAVEMENT (321313)
- (a) CONCRETE SIDEWALK, SEE DETAIL B/SD4.2
- (b) HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL, C/SD4.2

3 CONCRETE CURB (321313, 321613, 321726)
- (a) CURB AND GUTTER, SEE DETAIL D/SD4.2
- (b) CONCRETE HEADER CURB, SEE DETAIL E/SD4.2
- (c) ACCESSIBLE DROPPED CURB TYPE 'A' RAMP, SEE DETAILS G&H/SD4.2.

4 CONCRETE WHEEL STOP, SEE DETAIL F/SD4.2

5 PAINTED PAVEMENT MARKINGS, (321723.13)
- (a) 4" PAVING STRIPING, WHITE.
- (b) 4" STRIPE PAINTED ISLAND, YELLOW.
- (c) ACCESSIBLE PARKING STRIPING, SEE DETAIL J/SD4.2.
- (d) PAINTED TRAFFIC STOP BAR, 12'X1'2, WHITE.
- (e) PAINTED CROSSWALK, SEE DETAIL K/SD4.2.
- (f) PAINTED DIRECTIONAL ARROW, SEE DETAIL O/SD4.2
- (g) 4" DASHED LANE DIVIDE STRIPING, WHITE.

6 TRAFFIC SIGNAGE (SINGLE POST). (101453)
- (a) STOP SIGN WITH DO NOT ENTER SIGN ATTACHED TO REAR. SEE DETAIL L/SD4.2.
- (b) ACCESSIBLE PARKING SIGN. 'VAN ACCESSIBLE' SIGN INCLUDED. SEE DETAIL N/SD4.2.
- (c) 'PARENT DROP OFF' SIGN WITH RIGHT TURN ARROW. SEE M/SD4.2.

7 CONCRETE FILLED BOLLARD. SEE DETAIL I/SD4.2

8 8'-0" HEIGHT DUMPSTER SCREEN AND ACCESS GATE. SEE DETAIL A&B/SD4.3

9 CONCRETE STAIR. SEE DETAIL C&D/SD4.3

10 CAST IN PLACE CONCRETE RETAINING WALL. SEE DETAIL J/SD4.3

11 TEMPORARY MULCH PATH. SEE G/SD4.3

12 CHAIN LINK GATE TO BE INSTALLED IN EXISTING FENCE. SEE H/SD4.3

13 CAN WASH STATION. SEE I/SD4.3

14 BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (a) BUILDING CANOPY

15 SITE UTILITY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- (a) SITE LIGHTING

LEGEND

- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- ADA TACTILE WARNING PAD
- IJ ISOLATION JOINT

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CONSTRUCTION DOCUMENTS

SD3.1

ENLARGED SITE DEVELOPMENT AND LAYOUT PLAN
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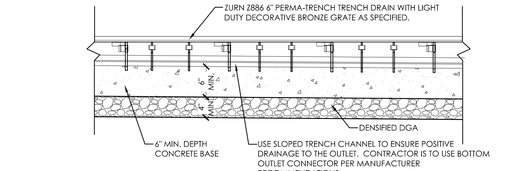
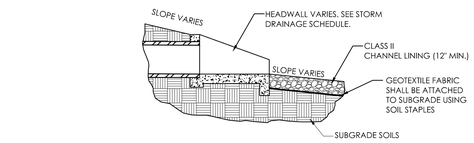


LIGHT DUTY TRENCH DRAIN

SCALE : 1"=1'-0"

G SD4.1



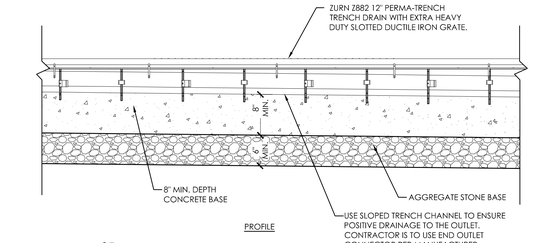
NOTES:

1.) CHANNEL LINING SHALL BE PLACED IN A MANNER THAT WILL NOT TEAR OR DAMAGE THE FILTER FABRIC.
2.) GEOTEXTILE FABRIC SHALL BE NON-WOVEN DRAINAGE FABRIC SUCH AS AMOCO 4545.
3.) GRADING AROUND THE HEADWALL SHOULD BE SUFFICIENT TO PREVENT THE HEADWALL FROM MOVING AND TO PREVENT EROSION AROUND THE HEADWALL. SLOPED HEADWALLS ARE TO BE GRADED FLUSH SO THAT THEY CAN BE MOWED OVER.
4.) RIP-RAP EROSION PROTECTION IS TO EXTEND A MINIMUM OF 25-FEET DOWNSTREAM OF THE HEADWALL, AND IS TO EXTEND TO THE TOP OF THE DITCH OR A MINIMUM OF 15-FEET WIDE.

HEADWALL DETAIL

SCALE : N.T.S.

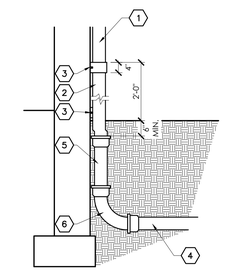
D SD4.1



HEAVY DUTY TRENCH DRAIN

SCALE : 1" = 1'-0"

F SD4.1



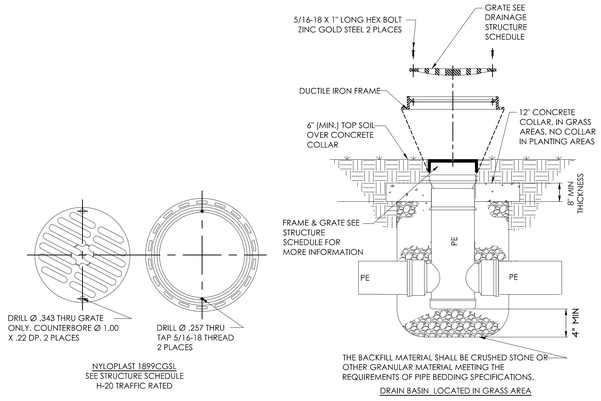
NOTES :

1. DOWNSPOUT-SEE ARCHITECTURAL DRAWINGS FOR SIZES. COORDINATE WITH DOWNSPOUT BOOT SIZES.
2. DOWNSPOUT BOOT PER SPECIFICATION SECTION 334993. COORDINATE BOOT SIZES WITH DOWNSPOUTS AND STORM DRAINAGE PIPING. COORDINATE EXACT LOCATIONS WITH DOWNSPOUT CONTRACTOR. INSTALL A MINIMUM OF 24" OF BOOT ABOVE GRADE AND PIPE CONNECTION 6" MINIMUM BELOW GRADE.
3. SECURE TO WALL. PAINT BACK OF BOOT PRIOR TO INSTALLING.
4. STORM DRAINAGE PIPING BELOW GRADE.
5. PVC PIPE AS NEEDED TO EXTEND TO REQUIRED PIPE DEPTH.
6. LONG SWEEP ELBOW

DOWNSPOUT BOOT DETAIL

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

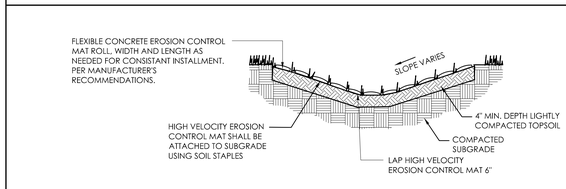
C SD4.1



DRAIN BASIN PLAZA DRAIN DETAIL

SCALE : N.T.S.

B SD4.1



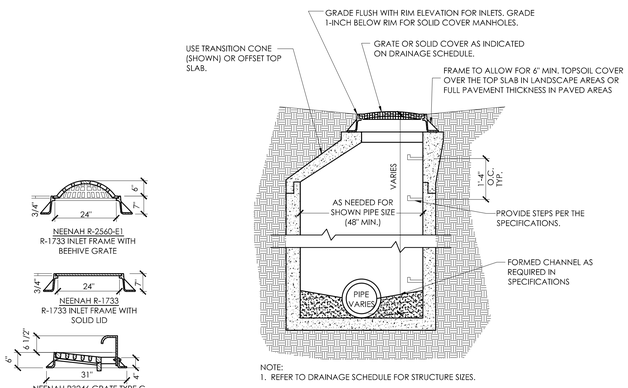
NOTES:

1.) FLEXIBLE CONCRETE EROSION CONTROL MATTING SHALL BE PLACED IN A MANNER THAT WILL NOT TEAR OR DAMAGE THE EROSION CONTROL BLANKET.
2.) FLEXIBLE CONCRETE EROSION CONTROL MATTING SHALL BE ANCHORED WITH 12' LONG X 3/8" DIAMETER (MIN) SOIL STAPLES/ ANCHORS PER THE FOLLOWING:
SLOPE 1%-6% -10' CENTERS
SLOPE 6%-20% -5' CENTERS
SLOPE >20% -3' CENTERS
3.) OVERSEED EROSION CONTROL MATTING IMMEDIATELY AFTER INSTALLATION AND WATER AS NEEDED, ENSURING THAT SEED IS GENTLY WASHED INTO SPACES BETWEEN COBBLES AND NOT WASHED AWAY.

FLEXIBLE CONCRETE EROSION CONTROL MAT (313413)

SCALE : N.T.S.

E SD4.1



NOTE:
1. REFER TO DRAINAGE SCHEDULE FOR STRUCTURE SIZES.

2. PIPE ORIENTATION SHOWN IS FOR TYPICAL CONSTRUCTION ONLY. ACUTAL PIPE LOCATIONS, SIZES AND ORIENTATIONS MAY DIFFER. REFER TO PROJECT DRAWINGS FOR PIPE INFORMATION.

MANHOLE/SURFACE INLET (TYP)

SCALE : 1/2" = 1'-0"

A SD4.1

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

STATE OF KENTUCKY
MICHAEL B. MAYS
31048
LICENSED PROFESSIONAL ENGINEER

9/13/19

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

SITE DETAILS

M.E.&P. Engineer:
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Lexington, KY 40504
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	MBM/KAM
Rev'd By:	LMR/DPS

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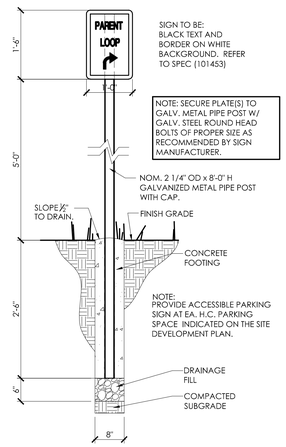
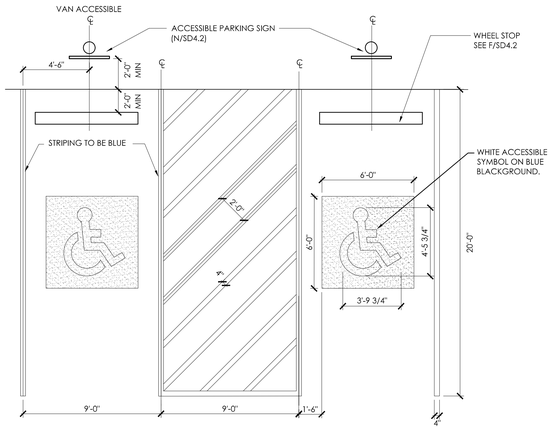
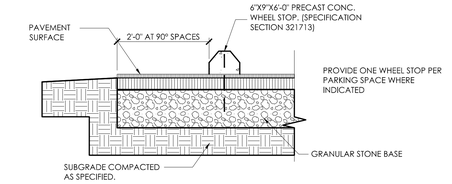


PARENT LOOP SIGN
SCALE: 3/4" = 1'-0" (M, SD4.2)

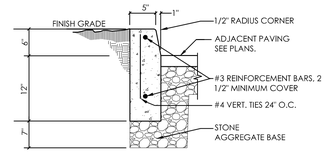


ACCESSIBLE PAVEMENT MARKING
SCALE: 1/4" = 1'-0" (J, SD4.2)

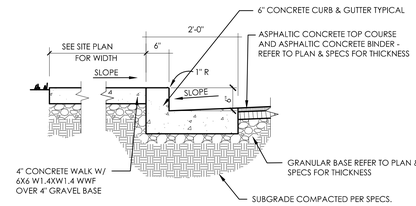


CONCRETE WHEEL STOP (321713)
SCALE: 1-1/2" = 1'-0" (F, SD4.2)

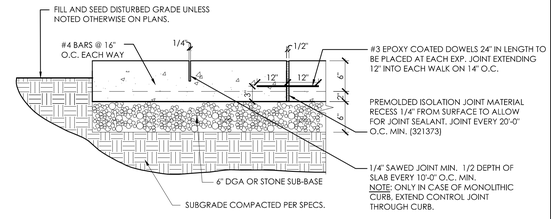
NOTES:
1. PROVIDE EXPANSION JOINTS & CONTRACTION JOINTS AS REQUIRED-SEE DETAIL THIS SHEET. REFER TO SPEC. SECTION FOR ADDITIONAL REQUIREMENTS. (321613)
2. BACKFILL AT BACK FACE OF CURB TO BE LEVEL WITH THE FINISH ELEVATION OF THE CURB. COMPACT PER THE SPECS.



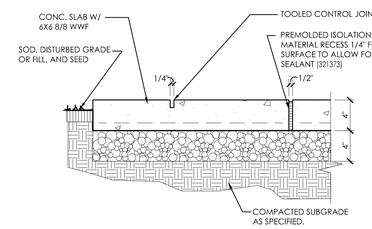
CONCRETE HEADER CURB (321613)
SCALE: 1" = 1'-0" (E, SD4.2)



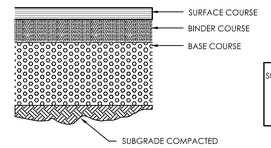
CONCRETE CURB & GUTTER
SCALE: 3/4" = 1'-0" (D, SD4.2)



HEAVY DUTY CONCRETE PAVEMENT
SCALE: N.T.S. (C, SD4.2)



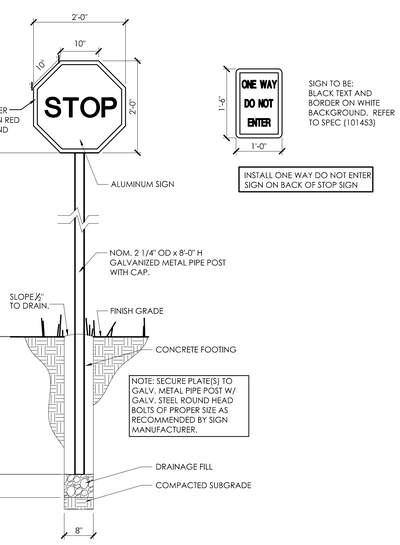
CONCRETE SIDEWALK
SCALE: 3/4" = 1'-0" (B, SD4.2)



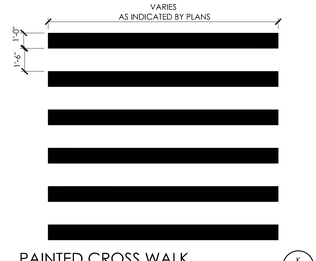
ASPHALT PAVEMENT
SCALE: 1-1/2=1'-0" (A, SD4.2)

TRAFFIC ARROW
SCALE: 1/2" = 1'-0" (O, SD4.2)

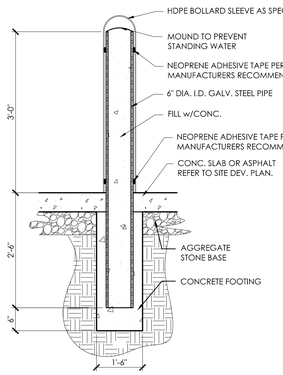
ACCESSIBLE PARKING SIGN
SCALE: 3/4" = 1'-0" (N, SD4.2)



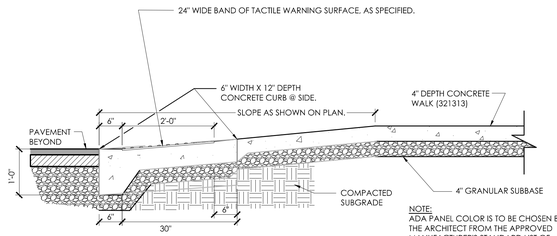
STOP AND DO NOT ENTER SIGNS
SCALE: 3/4" = 1'-0" (L, SD4.2)



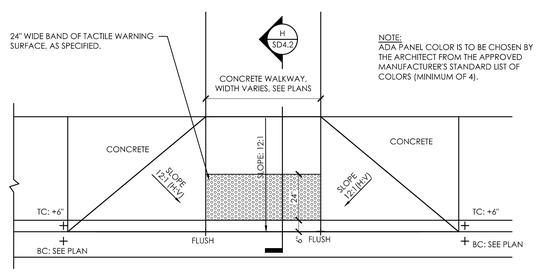
PAINTED CROSS WALK
SCALE: 1/4" = 1'-0" (K, SD4.2)



CONCRETE FILLED BOLLARD (055000)
SCALE: N.T.S. (I, SD4.2)



CONCRETE RAMP W/ DETECTABLE WARNING PANEL
SCALE: 3/4" = 1'-0" (H, SD4.2)



DROPPED CURB TYPE A
SCALE: NTS (G, SD4.2)

rosstarrant architects
101 old todd's avenue lexington, kentucky 40502 p 859.254.4018

KEVIN A. McCALLA 837 REGISTERED LANDSCAPE ARCHITECT
STATE OF KENTUCKY
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SITE DETAILS
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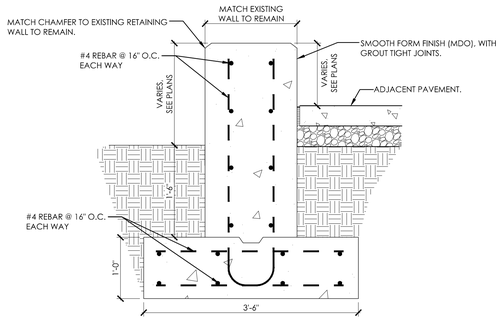
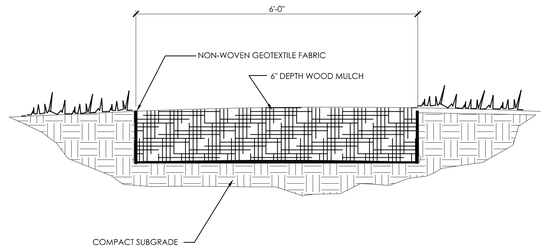


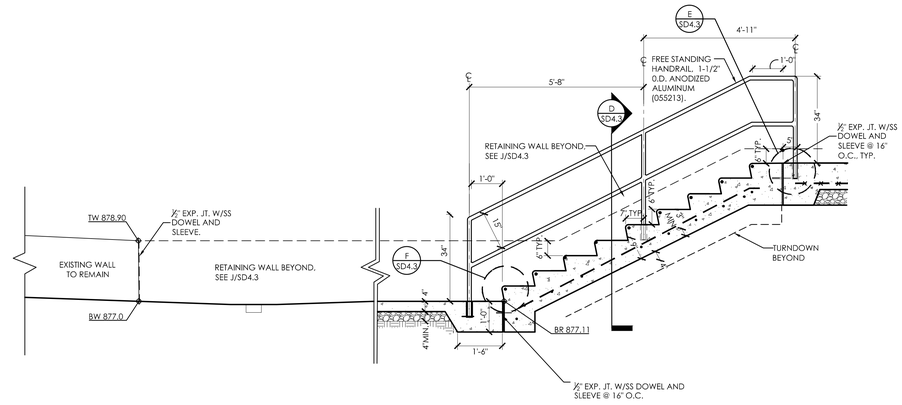
FORMED CONCRETE RETAINING WALL

SCALE : 1" = 1'-0" — J / SD4.3



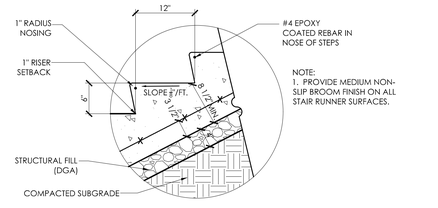
TEMPORARY MULCH PATH

SCALE : 1/2" = 1'-0" — G / SD4.3



CONCRETE STAIR - SECTION

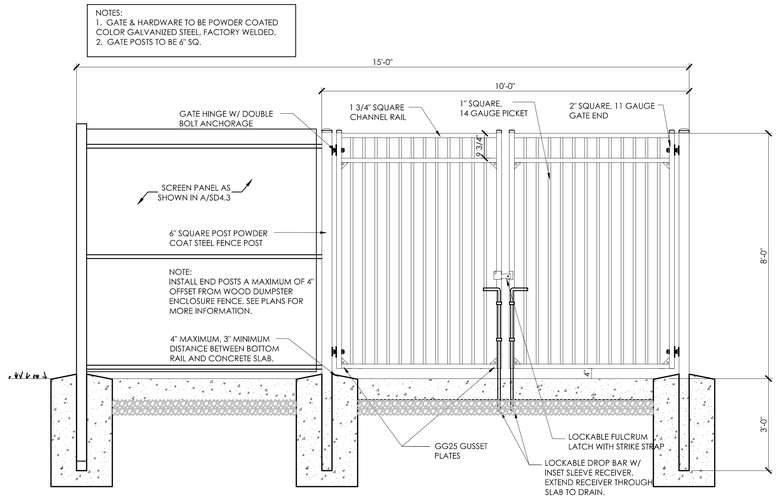
SCALE : 1/2" = 1'-0" — C / SD4.3



NOTE:
1. PROVIDE MEDIUM NON-SLIP BROOM FINISH ON ALL STAIR RUNNER SURFACES.

TYPICAL STAIR TREAD AND NOSING DETAIL

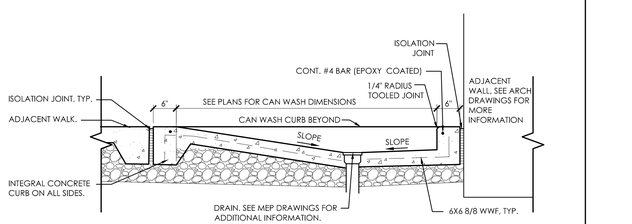
SCALE : 1" = 1'-0" — F / SD4.3



NOTES:
1. GATE & HARDWARE TO BE POWDER COATED COLOR GALVANIZED STEEL, FACTORY WELDED.
2. GATE POSTS TO BE 6" SQ.

DUMPSTER ACCESS GATE

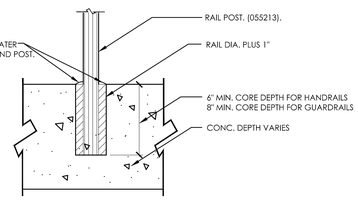
SCALE : 1/2" = 1'-0" — B / SD4.3



CAN WASH

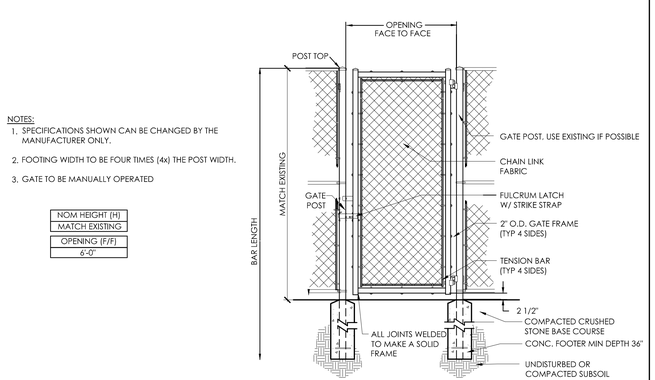
SCALE : 1" = 1'-0" — I / SD4.3

NOTES:
1. CORED HOLE TO BE A MINIMUM OF 3" FROM EDGE OF CONCRETE.
2. CORED HOLE TO HAVE A MINIMUM OF 4" OF CONCRETE BELOW HOLE.



HANDRAIL/GUARDRAIL POST DETAIL

SCALE : N.T.S. — E / SD4.3

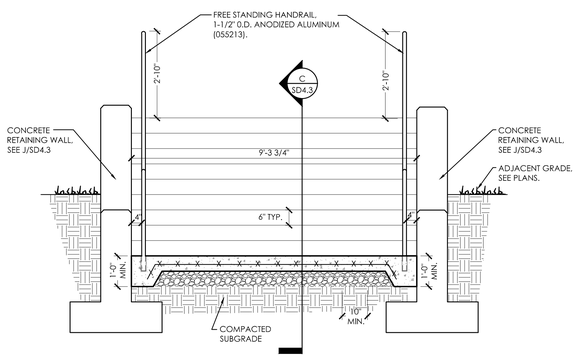


NOTES:
1. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
2. FOOTING WIDTH TO BE FOUR TIMES (4x) THE POST WIDTH.
3. GATE TO BE MANUALLY OPERATED

NOM HEIGHT (H)
MATCH EXISTING
OPENING (F/F)
6'-0"

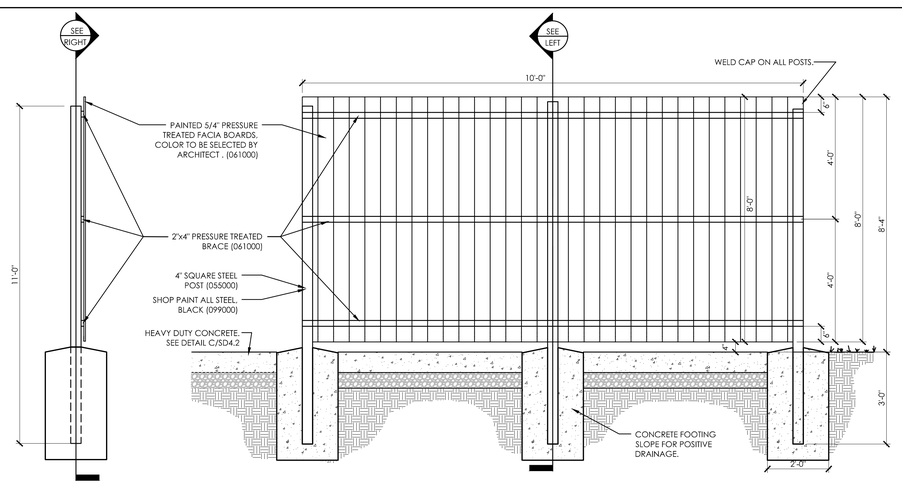
6' WIDTH CHAIN LINK GATE

SCALE : 3/4" = 1'-0" — H / SD4.3



CONCRETE STAIR - ELEVATION

SCALE : 1/2" = 1'-0" — D / SD4.3



POST SECTION - SCREEN MOUNTING

SCREEN WALL ELEVATION

DUMPSTER SCREEN WALL - SIDE ELEVATION

SCALE : 1/2" = 1'-0" — A / SD4.3

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Rev'd By: LMR/DPS

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CONSTRUCTION DOCUMENTS

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SITE DETAILS

DATE ISSUED:
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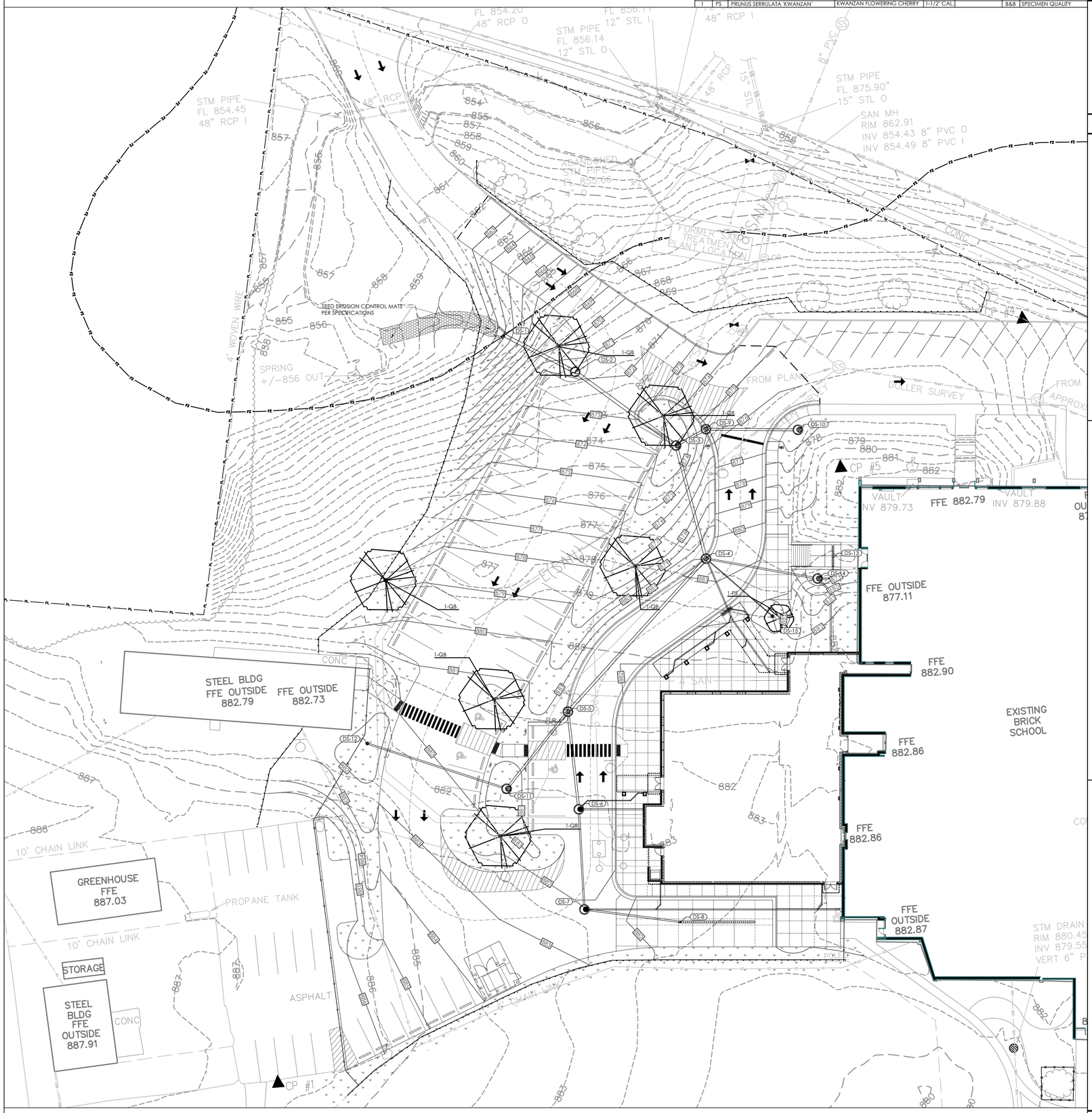
QTY.	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	HGT/SPD.	ROOT	REMARKS
TREES - DETAIL A/SDS.1							
6	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2-1/2" CAL.		B&B	SPECIMEN QUALITY
1	PS	PRUNUS SERRULATA 'KWANZAN'	KWANZAN FLOWERING CHERRY	1-1/2" CAL.		B&B	SPECIMEN QUALITY



PLANTING PLAN
SCALE : 1"=20'-0"

A SD5.1

0 20 40 Feet

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY SM&E, 2020 Liberty Rd, Lexington, KY 40505. REFER TO SITE SURVEY SHEETS.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.

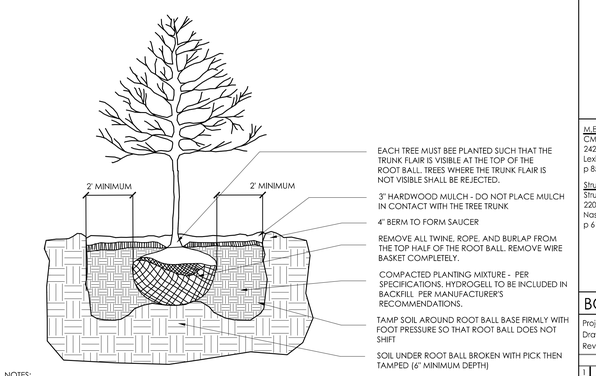
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.

5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

LANDSCAPE NOTES

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. ANY CONFLICTS IN LOCATION OF PLANT MATERIAL SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
3. SCHEDULE A REVIEW OF THE PLANTS TO BE INSTALLED WITH THE LANDSCAPE ARCHITECT. PROVIDE AT LEAST 7 DAYS ADVANCE NOTICE OF MEETING. VIEWING CAN EITHER BE CONDUCTED AT THE STORAGE NURSERY ONCE ALL THE PLANTS ARE PURCHASED, OR ON-SITE PRIOR TO ANY PLANTS BEING PLACED IN THE GROUND. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS THAT HAVE NOT BEEN VIEWED PRIOR TO BEING PLACED IN THE GROUND.
4. PRESERVATION AND REMOVAL OF EXISTING TREES:
   A) EXISTING TREES DESIGNATED TO BE PRESERVED SHALL BE PROTECTED AS PER DETAILS AND THE CONTRACT SPECIFICATIONS. ALL PROTECTIVE MEASURES SHALL BE CARRIED AS PER THE SPECIFICATIONS AND DRAWINGS.
   B) ALL EXISTING TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED AS PER THE CONTRACT SPECIFICATIONS AND ONLY BY PERMISSION OF THE LANDSCAPE ARCHITECT.
5. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE ARCHITECT.
6. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AND SHALL HAVE PASSED ANY INSPECTIONS REQUIRED UNDER STATE REGULATIONS. ALL PLANTS SHALL BE BALLED AND BURLAP WRAPPED UNLESS OTHERWISE NOTED IN THE PLANTING SCHEDULE. ANY SYNTHETIC WRAPPING AND ALL CONTAINERS SHALL BE REMOVED PRIOR TO PLANTING.
7. ALL SHRUBS AND HEDGES SHALL BE AT LEAST 2 FEET IN HEIGHT WITH ATLEAST 3 CANES OR LARGER. ALL SINGLE STEM TREES SHALL HAVE A MINIMUM 1.75" CALIPER, UNLESS OTHERWISE NOTED. PLANTS SHOULD MEET THESE CONDITIONS IN ACCORDANCE WITH THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, AND THE SPECIFICATIONS NOTED ON THE PLANTING SCHEDULE.
8. ANY STAKING, WIRING, AND/OR WRAPPING SHALL BE DONE ONLY WHERE SLOPES ARE GREATER THAN 20%, OR WHERE OTHER STABILITY PROBLEMS EXIST.
9. ALL SHRUBS AND GROUND COVER PLANTS SHALL BE PLANTED AT THE ON CENTER DISTANCES NOTED ON THE PLANTING SCHEDULE.
10. ALL OPEN LANDSCAPE AREAS SHALL BE SOD OR GROUNDCOVER.
11. ALL PLANTING BEDS SHALL BE MULCHED WITH MATERIALS AS SPECIFIED ON THE PLANTING PLAN, WITH A SAUCER SURROUNDING EACH PLANT. HARDWOOD MULCH SHALL BE EVENLY SPREAD, 3" DEEP.
12. A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS. FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH THE SOIL TEST RECOMMENDATIONS.
13. ALL LANDSCAPING MATERIALS SHALL BE INSTALLED IN A SOUND, WORKMAN-LIKE MANNER, AND ACCORDING TO BEST PRACTICE CONSTRUCTION AND PLANTING PROCEDURES. ANY LANDSCAPE MATERIAL THAT IS DEEMED UNACCEPTABLE, OR INSTALLED IN A MANNER THAT RENDERS THEM UNACCEPTABLE AS DETERMINED BY THE LANDSCAPE ARCHITECT, SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS. ALL CHANGES AND SUBSTITUTIONS OF PLANT AND LANDSCAPE MATERIALS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT, OR EQUAL.



NOTES:
1. FLOOD SAUCER TWICE WITH WATER WITHIN 48 HOURS OF PLANTING.
2. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE THE EDGE OF THE CROWN.
3. DO NOT USE TREE WRAP.

TYPICAL DECIDUOUS TREE PLANTING DETAIL
SCALE : 3/8" = 1'-0"

A SD5.1

LEGEND

MULCHED AREA

SODDED AREA (329223)

NEW TREE. SEE DETAIL A/SDS.1 (329300)

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

STATE OF KENTUCKY
KEVIN A McCALLA
837
REGISTERED LANDSCAPE ARCHITECT
9/13/19

PLANTING PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	MBM/KAM
Rev'd By:	LMR/DPS

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CONSTRUCTION DOCUMENTS

SD5.1

PLANTING PLAN

DATE ISSUED:
9/13/2019

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

DESIGN CRITERIA

1. Building Code: 2018 Kentucky Building Code and ASCE 7-10 (except Chapter 14 and Appendix 11A)
   1.1 Building Risk Category: III
2. Design Loads
   2.1 Uniform Floor Live Loads (reduced per Building Code, UNO)
   General Ground Floor Areas 100 psf
   2.2 Roof Loads
   2.2.1 Uniform Roof Live Load 20 psf (reduced per Bldg. Code)
   2.2.2 Snow Loads: Ground Snow = 15 psf (with drift loads per Code)
   Terrain Category = C
   Snow Exposure Factor, Ce = 1.0
   Snow Load Importance Factor, I = 1.1
   Thermal Factor: Heated Spaces, Ct = 1.0
   Unheated Spaces, Ct = 1.2
   Flat-roof Snow Load: Heated Spaces, Pf = 16.6 psf
   Unheated Spaces, Pf = 18.9 psf
   Rain-on-Snow Surcharge: 5 psf (where applicable)
   2.3 Wind Loads: Basic Wind Speed V(ult)=120 mph; V(asd)= 93 mph
   Wind Exposure C
   Internal Pressure Coefficient = +/-0.18 (Enclosed Building)
   Directionality Factor, Kd = 0.85
   2.3.1 Component and Cladding Pressures: See S0.4
   2.4 Earthquake Loads
   Seismic Importance Factor, I = 1.25
   Mapped Spectral Response Accelerations, Ss and S1 = 0.182 and 0.098
   Site Class: B
   Spectral Response Coefficients, Sds and Sd1 = 0.121 and 0.065
   Seismic Design Category: A
3. Structural Engineer is not responsible for the design of steel stairs, handrails, curtain wall/window wall systems, cold-formed steel framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Construction Documents.
4. No explicit provisions have been made for future building expansion.

GENERAL

1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.
2. Material, workmanship, and design shall conform to the referenced Building Code.
3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
4. Contractor responsibilities include, but are not limited to, the following:
   4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission.
   4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing davits, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.
   4.3 Equipment/Framing Verification
   4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.
   4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.
   4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
   4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.
   4.6 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.
5. Existing and Unforeseen Conditions
   5.1 Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.
   5.2 Shop drawing submittals shall be based on field verified dimensions and conditions only. Contractor shall clearly show actual field dimensions on shop drawings.

SUBMITTALS

1. Shop Drawings and Submittals
   1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
   1.2 Electronic drawing files will not be provided to the Contractor.
   1.3 Review of shop drawings will be for conformance with the Construction Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.
2. Submittals
   2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.
3. Deferred Submittals
   3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.
   3.2 Submittal documents for Deferred Submittals:
   3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
   3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.
   3.3 The following shall be considered Deferred Submittals:
   Steel Connections - See "Structural Steel" Section
   Steel Joists
   Cold-formed Exterior Steel Stud Framing
   Rooftop Unit Anchorage
   Steel Stairs and Handrails
   Curtainwall/Window Wall Systems
   Guardrails/Handrails
   Slotted Channel Strut Framing (e.g. Unistrut)

FOUNDATION

1. Geotechnical Report: S&ME
   Report No. 1183-19-024, Dated July 19, 2019
   1.1 It is the responsibility of the contractor to obtain a copy of the geotechnical report and comply with the recommendations found therein.
2. Building Pad Preparation
   2.1 Strip vegetation and topsoil.
   2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.
   2.3 Undercut encountered bedrock under slabs in new building footprint as follows:
   Kitchen: 3-feet below bottom of subgrade & replace w/ structural fill.
   Other Areas: 1-feet below bottom of subgrade & replace w/ structural fill.
3. Rock Bearing Capacity: Isolated Footings 5000 psf
   Continuous Footings 5000 psf
   3.1 Provide 2-inch minimum diameter probe holes that extend 1.5 times the maximum footing dimension or 6 feet, whichever is larger, below the bottom of the footings.
   3.1.1 Probe holes shall be drilled every 25 feet along continous footings

REINFORCEMENT

1. Reinforcing Bars: ASTM A615, Grade 60
   1.1 Reinforcing bars are not to be welded.
2. Welded Wire Reinforcement (WWR): ASTM A1064, 8" minimum side and end laps
3. Reinforcement Placement (UNO)
   3.1 Concrete Reinforcement Cover
   Below Grade: Unformed 3" clear
   Formed 2" clear
   3.2 Masonry reinforcing steel: Place in the center of CMU cells, unless otherwise noted in Drawings.
4. Reinforcement Splices
   4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.
   4.2 Splice Lengths (UNO)
   Concrete Reinforcement: See Concrete Lap Splice Tables in Drawings
   Masonry Reinforcement: See CMU Lap Splice Tables in Drawings
5. Deformed Bar Anchors (DBA): ASTM A496
   5.1 Deformed Bar Anchors shall conform to AWS D1.1, Type C studs with a minimum yield strength of 70 ksi and minimum tensile strength of 80 ksi.
   5.2 Deformed Bar Anchors shall be stud welded

CAST-IN-PLACE CONCRETE

1. Concrete Properties
   1.1 Normal Weight Structural Concrete

	28-Day, f'c (min)	w/cm Ratio (max.)	Entrained Air
Footings (Isolated/Continuous)	3,000 psi	----	None Required
Foundation Walls, Pedestals	_,000 psi	----	None Required
Slabs on Grade	3,500 psi	0.48	None Required
Mechanical Equipment Pads:			
Interior	3,000 psi	----	None Required
Exterior	3,000 psi	----	5.0 +/- 1.5%
Lean Concrete	1,500 psi	----	None Required
All Other Concrete	5,000 psi	0.40	5.0 +/- 1.5%
Aggressive Environment:			
Loading Dock Walls	5,000 psi	0.40	6.0 +/- 1.5%
Retaining Walls	5,000 psi	0.40	6.0 +/- 1.5%

   Note: All concrete shall be assigned the exposure classes FO, SO, WO, and CO; except concrete in Aggressive Environment shall be assigned the exposure classes F3, S3, W1, and C2 (see ACI 318).
2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.
3. Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
   3.1 Conduit shall not be placed within the slab on grade. Conduit shall be installed below the slab on grade within the granular subbase.
4. Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
5. Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.
6. Curing
   6.1 Begin curing procedures immediately following commencement of the finishing operation.
   6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.
   6.3 All concrete slabs that are to have exposed stained or polished concrete finish shall be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.

NON-SHRINK GROUTING

1. Non-shrink grout under steel base plates shall be non-metallic with minimum compressive strength of 5000 psi at 28 days.
2. Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.

STRUCTURAL INDEX

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CONCRETE MASONRY

1. Specified Compressive Strength, f'm = 2,000 psi
   Minimum Net Area Compressive Strength of Masonry Unit: 2,000 psi
   (ASTM C90 w/ Type M or S Mortar)

2. Mortar: Walls below grade Type M
   Bearing walls Type M or S
   Partition walls Type N

3. Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.

   3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.

   3.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior Single wythe CMU walls shall have head joints fully mortared.

4. Horizontal Joint Reinforcement: Two (2) No. 9 gage longitudinal wires at 16" vertically, UNO. Lap wire 6 inches minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.

5. Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.

6. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.

7. Contraction Joints: Unless noted otherwise on the Plans, maximum spacing of 1 1/2 times of wall height or 24 feet (whichever is less) in all concrete masonry walls (including partitions) above grade.

8. Dovetail Anchors: At 16" vert., UNO, where CMU walls abut concrete surfaces.

9. Submit written construction procedures prior to the start of masonry construction.

STRUCTURAL STEEL

1. Steel Shapes

   1.1 W-Shapes: ASTM A992 (Grade 50)

   1.2 Angles, Channels, Plates, UNO: ASTM A36

   1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B

   1.4 Pipe Structural Sections: ASTM A53, Grade B

2. Anchor Rods, Bolts, and Studs

   2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.

   2.2 Bolts: 3/4" Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.

   2.3 Headed Studs: ASTM A108. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.

3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" referenced in the applicable Building Code.

4. Connections shall be detailed based on the design information provided in the Structural Documents.

   4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction" referenced in the applicable Building Code.

      4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer.

   4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.

   4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction" referenced in the applicable Building Code.

   4.4 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state.

5. Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.

6. Architecturally Exposed Structural Steel (AESS): Conform to AISC Code of Standard Practice, Section 10. AESS shall be sandblasted (SSPC-SP6) prior to primer coat application. Primer shall be compatible with final paint coat and shall be approved by finish paint contractor. Steel deck shall be painted after installation. See Architectural Documents for paint specifications. AESS includes the following:

   Structural steel members exposed to view
   Structural steel members identified as AESS in the Structural or Architectural Drawings

7. Galvanizing

   7.1 Galvanize environmentally exposed steel, for example mechanical equipment supports and screenwalls.
   7.2 Galvanize shelf angles that support the exterior building veneer, for example brick shelf angles.

      12.2.1 Galvanized brick lintel angles receiving paint shall have proper treatment performed to accept paint.

   7.3 Touch-up welds and abrasions in galvanized members in accordance with ASTM A780.

POST-INSTALLED ANCHORS

1. Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.

2. The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). Refer to the project building code and/or evaluation report for special inspections and proof load requirements. Substitution requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR) for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the project building code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product.

3. For Anchoring into Concrete

   3.1 Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), DeWalt/PowersPower-Stud+ SD1 (ICC-ES ESR-2818), or DeWalt/Powers Power-Stud+ SD2 (ICC-ES ESR-2502). Minimum embedment = 6 times anchor diameter, UNO.

   3.2 Screw Anchors: Simpson Titen-HD (Concrete: ICC-ES ESR-2713; Grouted Masonry: ICC-ES ESR-1056) or DeWalt Screw Bolt+ (ICC-ES ESR-3889), Hilti Kwik HUS-EZ (ICC-ES ESR-3027). Minimum Embedment = 6 times anchor diameter, UNO.

   3.3 Adhesive Anchors

      3.3.1 All-thread steel rods conforming ASTM A36 or bolts conforming to ASTM A307, Grade A or, both zinc plated in accordance with ASTM B633 or reinforcing bars conforming to ASTM A615, Grade 60.

      3.3.2 Adhesive for rebar and anchors shall have been tested in accordance with ACI 355.4 and ICC-ES AC308 for cracked concrete and seismic applications. Design bond strength has been based on CRACKED CONCRETE, ACI 355.4 temperature category B, and installations into dry holes drilled using a hammer drill into concrete that has cured for at least 21 days. Adhesive anchors shall be installed by a certified adhesive anchor installer per ACI 318 where INDICATED on the contract documents. Installations requiring certified installers shall be inspected per ACI 318.

      3.3.3 Adhesive conforming to Simpson Set-XP (IAPMO-UES ER-263), Simpson SET-XP (ICC-ES ESR-2508), DeWalt/Powers Pure110+ (ICC-ES ESR-3298), Powers DeWalt AC200+ Adhesive (ICC-ES ESR-4027), Hilti HIT-HY 200 Safe Set Fast Cure Adhesive (ICC-ES ESR-3187), Hilti HIT-RE 500 V3 Safe Set Adhesive (ICC-ES ESR-2322). Minimum Embedment = 12 times anchor diameter, UNO.

4. For Anchorage into Solid Grouted Concrete Masonry

   4.1 Expansion Anchors: Hilti Kwik Bolt 3 (ICC-ES ESR-1385), Simpson Strong-Bolt 2 (IAPMO-UES ER-240), Simpson Wedge-All (ICC-ES ESR-1396) or DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2966). Minimum embedment = 6 times anchor diameter, UNO.

   4.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-1056) or Powers Wedge-Bolt+ (ICC-ES ESR-1678), Hilti Kwik HUS-EZ (ICC-ES ESR-3056).Minimum Embedment = 6 times anchor diameter, UNO.

   4.3 Adhesive Anchors: Adhesive conforming to Simpson AT-XP (IAPMO-UES ER-281), Simpson SET-XP (ICC-ES ESR-265), DeWalt/Powers AC100+ Gold (ICC-ES ESR-3200), Hilti HIT-HY 70 Fast Cure Adhesive (ICC-ES ESR-2682). Minimum Embedment = 6 times anchor diameter, UNO.

STEEL JOISTS

1. Steel Joists, Bridging, and Connections: Designed, fabricated, and erected according to Specifications of the Steel Joist Institute (SJI).

   1.1 Net Uniform Uplift Design Load for Roof Joists = 10 psf

   1.2 Bridging shall be designed to fully brace top chord of joists under service loads for roof joists not braced by steel roof deck.

   1.3 Top chord extensions or extended ends are to be designed for the same tabulated uniform loads used in the design of the associated joists plus a concentrated load of 300 pounds at the end of the of the extension or extended end, unless noted otherwise on the Drawings.

2. Design of steel joists, bridging, and their connections shall be the sole responsibility of the Contractor. Submit shop drawings sealed by an Engineer licensed in the project state.

3. Contractor shall coordinate the construction and erection of walls, beam framing, steel decking, etc. to ensure compatibility of roof and wall systems considering pitch and camber of steel joists.

STEEL DECK

1. Steel Roof Deck: See plan for gage, galvanized.

2. Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

COLD-FORMED NON-LOAD BEARING EXTERIOR STEEL STUD FRAMING

1. Design of cold-formed exterior steel non-load bearing studs and their connections shall be the sole responsibility of the Contractor. Design and shop drawing submittals shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the Project state.

2. Cold-Formed Steel Design, Fabrication and Erection: Conform to AISI S100 "North American Specification for the Design of Cold-formed Steel Structural Members" referenced in the referenced Building Code

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STUCTURAL NOTES CONTINUED

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STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project.
2. The responsibilities of the Contractor.
3. Structural Observations

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

Special Inspector will be hired by the Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

STATEMENT OF SPECIAL INSPECTIONS

Special Inspector shall perform the following tests and inspections of all structural elements included within this Statement of Special Inspections.

1. The following tables contain material, components and work that require special inspection or testing:
   a. Inspection Frequency, **C** - Continuous special inspection. Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
   b. Inspection Frequency, **P** - Periodic special inspection. Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed. For structural steel observe the items on a random basis.
   c. See Steel section for additional information for inspection tasks.

SOILS	Inspection Frequency		Remarks
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	---	P	---
2. Verify excavations are extended to proper depth and have reached proper material.	---	P	Inspection is required after excavation is complete and prior to placement of structural fills.
3. Perform classification and testing of controlled fill materials.	---	P	Perform laboratory tests of field samples provided by contractor for verification of in place densities.
4. Verify use of proper materials, densities, and lift thickness during placement and compaction of controlled fill. a. As a minimum, perform one test per lift for every 2500 square feet of fill placed.	C	---	Refer to specification for lift thicknesses and compaction.
5. Prior to placement of controlled fill, observe subgrade and verify that the site has been prepared properly (e.g. proofrolling, etc.).	---	P	---
6. Determine quantities of material removed and quantities of material placed where Unit Prices are involved.	---	P	---

CONCRETE CONSTRUCTION	Inspection Frequency		Remarks
1. Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances.	---	P	ACI 318: 3.5, 7.1 – 7.7 / IBC 1910.4
2. Inspection of reinforcing steel welding: a. Verify weldability of reinforcing steel other than ASTM A 706 b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. c. Shear reinforcement. d. Other reinforcement.	--- C C ---	P --- --- P	ACI 318: 3.5.2 / AWS D1.4 / IBC Table 1705.2.2
3. Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth.	C	---	ACI 318: 1.3.2, 8.1.3, 21.1.8 / IBC 1908.5, 1909.1, AISC 360-10 N5.7
4. Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment, and tightening torque.	C	---	ACI 318: 3.8.6, 8.1.3, 21.1.8 / IBC 1909.1 Use of post installed anchors must be approved by Structural Engineer
5. Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening toque.	C	---	ACI App. D9.2.4
6. Verify use of required design mix.	---	P	ACI 318: Ch. 4, 5.2 – 5.4, IBC 1904.2, 1910.2, 1910.3
7. Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days. b. Remaining specimen(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate. c. For each set molded, record: i. Slump ii. Air Content iii. Unit Weight iv. Temperature, ambient and concrete v. Batch and discharge times vi. Location and placement vii. Any pertinent information, such as addition of water, addition of admixtures, etc. d. Verify compliance with construction documents	C	---	ACI 318: 5.6, 5.8 ACI (5.a, 5b.i, ii, iii, iv, v, vi), SDG (5b.vii, 5.c, 5.d) ASTM C 172, ASTM C 31 ACI 318: 5.6.1 Report in writing on the same day as tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.
8. Inspection of concrete and shotcrete conveying and placement for proper application techniques.	C	---	ACI 318: 5.9, 5.10
9. Inspection for maintenance of specified curing temperature and techniques.	---	P	ACI 318: 5.11 – 5.13
10. Inspection of formwork for shape, location, and dimensions of the concrete member being formed.	---		ACI 318: 6.1.1
11. Perform testing of floor Flatness and Levelness of concrete slab placements in accordance with ASTM E1155. See specification	---	P	ACI 117-10

NON-SHRINK GROUTING	Inspection Frequency		Remarks
1. Compressive strength tests per ASTM C1107. a. Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting. b. Cube Size: 2-inch x 2-inch c. Test Schedule: (1) cube at 3-days, (2) cubes at 7-days, (3) cubes at 28-days.	C	---	---
2. Perform one performance evaluation test prior placing grout under base plates. Test shall be performed as outlined in ACI 351.1R-99	---	P	One test shall be performed at the beginning job prior to placement of grout under base plates.

CONCRETE MASONRY LEVEL B - (FOR RISK CATEGORY I, II, OR III STRUCTURES using Engineered methods, NON-Empirical)	Inspection Frequency		Remarks
1. Verification of f'm in accordance with Specification TMS 602 Article 1.4 B prior to construction	---	---	TMS 602 - Article 1.4 B
2. Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site for self-consolidating grout.			TMS 602 - Article 1.5 B.1.b.3
3. Verify compliance with the following approved submittals	---	---	---
a. Mortar mix designs indicating type and proportions of ingredients in compliance with the proportion specification of ASTM C270	---	P	TMS 602 - Article 2.1 and 2.6 A
b. Mortar mix designs and mortar tests performed in accordance with the property specification of ASTM C270.	---	P	TMS 602 - Article 2.1 and 2.6 A
c. Grout mix designs indicating type and proportions of the ingredients according to the proportion requirements of ASTM C476	---	P	TMS 602 - Article 2.2
d. Grout mix designs and grout strength test performed in accordance with ASTM C476	---	P	TMS 602 - Article 2.2
e. Grout compressive strength tests performed in accordance with ASTM C1019, and slump flow and Visual Stability Index (VSI) as determined by ASTM C1611/C1611M.	---	P	TMS 602 - Article 2.2
f. Construction procedures cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	---	P	TMS 602 - Article 1.8 C and 1.8 D
4. As masonry construction begins, verify that the following are in compliance:	---	---	
a. Proportions of site-prepared mortar	---	P	TMS 602 - Article 2.1 and 2.6 A
b. Construction of mortar joints	---	P	TMS 602 - Article 3.3 B
c. Location of reinforcement and connectors	---	P	TMS 602 - Article 3.4
5. Prior to grouting, verify that the following are in compliance:	---	---	---
a. Grout space.	---	P	TMS 602 - Article 3.2 D and 3.2 F
b. Grade, type, and size of reinforcement and anchor bolts	---	P	TMS 402 - Sec 1.16 TMS 602 - Article 2.4 and 3.4
c. Placement of reinforcement and connectors (including horizontal joint reinforcement)	---	P	TMS 402 - Sec 1.16 TMS 602 - Article 3.2 E and 3.4
d. Proportions of site-prepared grout	---	P	TMS 602 - Article 2.6 B
e. Construction of mortar joints	---	P	TMS 602 - Article 3.3 B
6. Verify during construction:	---	---	---
a. Size and location of structural elements	---	P	TMS 602 - Article 3.3 F
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	---	P	TMS 402 - Sec. 1.16.4.3, 1.17.1
c. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	---	P	TMS 602 - Article 1.8 C and 1.8 D
d. Placement of grout is in compliance	C	---	TMS 602 - Article 3.5
7. Observe preparation of grout specimens, mortar specimens, and/or prisms	---	P	TMS 602 - Article 1.4 B.2.b.3, 1.4 B.3, 1.4 B.4

STEEL JOISTS	Inspection Frequency		Remarks
1. Visual inspection of bolted and welded connections.	---	P	---
2. Verify installation of bridging or braces.	---	P	---
3. Verify connections for top and bottom chords.	---	P	---
4. Verify reinforcement of members for concentrated loads.	---	P	---
5. Verify proper bearing.	---	P	---

STEEL DECK	Inspection Frequency		Remarks
1. Material verification of steel deck. a. Identification markings to conform to ASTM standards specified in the approved construction documents b. Manufacturer's certified test reports.	---	P	---
2. Verify general alignment and deck lap.	---	P	---
3. Verify welds for size and pattern.	---	P	---
4. Inspection of welding at floor and roof deck	---	P	
5. Verify spacing and type of sidelap attachments.	---	P	---
6. Verify installation of deck closures.	---	P	---
7. Inspect welding operations, screw attachment, bolting, anchoring, and other fastening of components within the lateral force resisting system along including shear walls, braces,diaphragms, collectors (drag struts) and hold downs.	---	P	---

COLD-FORMED EXTERIOR STEEL (CFS) FRAMING	Inspection Frequency		Remarks
1. Verify that installation of cold-formed members complies with the Construction Documents and the approved shop drawings.	---	P	---

STRUCTURAL STEEL	Inspection Frequency		Remarks
Where the following tasks have been be performed by the fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10. It is permitted that this tasked be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special Inspector shall review records of tasked performed by the erector's and fabricator's quality control program to verify completeness.	Obs. – Observe these items on a random basis. Operations need not be delayed pending these inspections. Perf. – Perform these tasks for each welded joint or member.		
1. Inspection of steel framing to verify compliance with details shown on the approved construction documents including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc.	---	Obs.	AISC 360-10 N5.7
2. Review the material test reports and certifications as listed below for compliance with the construction documents. a. Main structural steel material test reports b. Anchor rods and threaded rods test reports c. Headed stud anchors - manufacturer's certifications	Perf.	---	AISC 360-10 N5.2 & N3.2
3. Visual Inspection Tasks Prior to Welding	---	---	AISC 360-10 Table N5.4-1
a. Welding procedure specifications (WPSs) available	Perf.	---	AWS D1.1/D1.1M 6.3
b. Manufacturer certifications for welding consumables available.	Perf.	---	
c. Material identification (type/grade)	---	Obs.	
d. Welder identification system 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.	---	Obs.	AWS D1.1/D1.1M 6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
e. Fit-up of groove welds (including joint geometry) i. Joint preparation ii. Dimensions (alignment, root opening, root face, bevel) iii. Cleanliness (condition of steel surfaces) iv. Tacking (tack weld quality and location) v. Backing type and fit (if applicable)	---	Obs.	AWS D1.1/D1.1M 6.5.2 AWS D1.1/D1.1M 5.22 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18 AWS D1.1/D1.1M 5.10, 5.22.1.1
f. Configuration and finish of access holes	---	Obs.	AWS D1.1/D1.1M 6.5.2, 5.17
g. Fit-up of fillet welds i. Dimensions (alignment, gaps at root) ii. Cleanliness (condition of steel surfaces) iii. Tacking (tack weld quality and location)	---	Obs.	AWS D1.1/D1.1M 5.22.1 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18
h. Check welding equipment	---	Obs.	Only Required for shop Fabrication.
4. Visual Inspection Tasks During Welding	---	---	AISC 360-10 Table N5.4-2
a. Use of qualified welders	---	Obs.	AWS D1.1/D1.1M 6.4
b. Control and handling of welding consumables i. Packaging ii. Exposure control	---	Obs.	AWS D1.1/D1.1M 6.2 AWS D1.1/D1.1M 5.3.1 AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D1.1/D1.1M 5.3.3 (for SAW)
c. No welding over cracked tack welds	---	Obs.	AWS D1.1/D1.1M 5.18
d. Environmental conditions i. Wind speed within limits ii. Precipitation and temperature	---	Obs.	AWS D1.1/D1.1M 5.12.1 AWS D1.1/D1.1M 5.12.2
e. WPS followed i. Settings on welding equipment ii. Travel speed iii. Selected welding materials iv. Shielding gas type/flow rate v. Preheat applied vi. Interpass temperature maintained (min./max.) vii. Proper position (F, V, H, OH) viii. Intermix of filler metals avoided unless approved	---	Obs.	AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21 AWS D1.1/D1.1M 5.6, 5.7
f. Welding techniques i. Interpass and final cleaning ii. Each pass within profile limitations iii. Each pass meets quality requirements	---	Obs.	AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24 AWS D1.1/D1.1M 5.30.1
5. Visual Inspection Tasks After Welding	---	---	AISC 360-10 Table N5.4-3
a. Welds cleaned	---	Obs.	AWS D1.1/D1.1M 5.30.1
b. Size, length and location of welds	Perf.	---	AWS D1.1/D1.1M 6.5.1
c. Welds meet visual acceptance criteria i. Crack prohibition ii. Weld/base-metal fusion iii. Crater cross section iv. Weld profiles v. Weld size vi. Undercut vii. Porosity	Perf.	---	AWS D1.1/D1.1M 6.5.3 AWS D1.1/D1.1M Table 6.1(1) AWS D1.1/D1.1M Table 6.1(2) AWS D1.1/D1.1M Table 6.1(3) AWS D1.1/D1.1M Table 6.1(4), 5.24 AWS D1.1/D1.1M Table 6.1(6) AWS D1.1/D1.1M Table 6.1(7) AWS D1.1/D1.1M Table 6.1(8)
d. Arc strikes	Perf.	---	AWS D1.1/D1.1M 5.29
e. k-area. 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 in. (75mm) of the weld.	Perf.	---	Not addressed in AWS but see AISC (1997b). See Commentary Section A3.1c and Section J10.8.
f. Backing removed and weld tabs removed and finished, and fillet welds added (if required)	Perf.	---	AWS D1.1/D1.1M 5.10, 5.31
g. Repair activities	Perf.	---	AWS D1.1/D1.1M 6.5.3, 5.26
h. Document acceptance or rejection of welded joint or member	Perf.	---	AWS D1.1/D1.1M 6.5.4, 6.5.5
6. Nondestructive Testing (NDT) of Welded Joints	Ultrasonic testing (UT), magnetic particle testing (MT), penetrant testing (PT) and radiographic testing (RT), where required, shall be performed by Special Inspector in accordance with AWS D1.1/D1.1M. NDT of welds completed in a fabricator's shop may be performed by that fabricator when fabricator is AISC Certified or approved by the Building Official where applicable. When the fabricator performs the NDT, the Special inspection agency shall review the fabricator's NDT reports. All NDT of welds completed in the field shall be performed by the Special Inspector. Acceptance criteria shall be in accordance with AWS D1.1/D1.1M for *statically loaded* structures, unless otherwise designated in the *design drawings* or project *specifications*.		
a. UT all complete penetration groove welds subject to transversely applied tension loading in a butt, T- and corner joints in material 5/16" thick or greater. MT shall be performed on 25% of all beam-to-column CJP groove welds.	Perf.	---	AISC 360-10 N5.5b & AISC 341-10 J6.2b
b. Thermally cut surfaces of access holes when material thickness is greater than 2" shall be tested by MT or PT. Any crack shall be deemed unacceptable.	Perf.	---	AISC 360-10 N5.5c
c. Establish weld soundness of welded joint subject to fatigue by RT of UT for the following joints:	Perf.	---	Reduction in rate of UT is prohibited. AISC 360-10 N5.5d
d. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to EOR or owner submit to contractor.	Perf.	---	AISC 360-10 N5.5g
e. Review NDT test reports performed by fabricator	---	---	AISC 360-10 N7
7. Inspection Tasks Prior to Bolting			Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. AISC 360-10 Table N5.6-1
a. Manufacturer's certifications available for fastener materials	Perf.	---	RCSC 2.1 & 9.1
b. Fasteners marked in accordance with ASTM requirements	Perf.	---	RCSC Figure C-2.1 & 9.1 (Also See ASTM Standards)
c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	---	Obs.	RCSC 2.3.2, 2.7.2 & 9.1
d. Proper bolting procedure selected for joint detail	---	Obs.	RCSC 4 & 8
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	---	Obs.	RCSC 3, 9.4 & 9.3
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used, not required for Snug tight bolts	---	Obs.	RCSC 7 & 9.2
g. Proper storage provided for bolts, nuts, washers and other fastener components	---	Obs.	RCSC 2.2,8 & 9.1
8. Inspection Tasks During Bolting			Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. Special Inspector need not be present during bolt pretensioning procedures. AISC 360-10 Table N5.6-2
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	---	Obs.	RCSC 8.1 & 9.1
b. Joint brought to the snug-tight condition prior to the pretensioning operation	---	Obs.	RCSC 8.1 & 9.1
c. Fastener component not turned by the wrench prevented from rotating	---	Obs.	RCSC 8.2 & 9.2
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	---	Obs.	RCSC 8.2 & 9.2
9. Inspection Tasks After Bolting	---	---	AISC 360-10 Table N5.6-3
a. Document acceptance or rejection of bolted connections	Perf.	---	
10. Inspection of Steel Elements of Composite Construction Prior to Concrete Placement	---	---	AISC 360-10 Table N6-1
a. Placement and installation of steel headed stud anchors	---	Obs.	Visually inspect and Hammer bend test (1 per 500).
b. Document acceptance or rejection of steel elements	---	Obs.	

CONTRACTOR RESPONSIBILITIES

1. Contractor shall submit to the Building Official, Owner, and the Architect a written statement of responsibility that contains the following:
   a. Acknowledgment of awareness of the special requirements contained in the Statement of Special Inspections for the main wind- or seismic force-resisting system or a wind- or seismic-resisting component listed in the statement of special inspections.
2. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.
3. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.
4. Contractor has the following responsibilities to the Special Inspector:
   a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change orders and field orders prior to inspection of work contained therein).
   b. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
   c. Cooperate with Special Inspector and provide access to work.
   d. Provide samples of materials to be tested in required quantities.
   e. Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
   f. Provide labor to assist Special Inspector in performing tests/inspections.
5. Contractor shall perform the following:
   a. SOILS
      i. Identify soils to be used as structural fill.
   b. CAST-IN-PLACE CONCRETE
      i. Submit manufacturer's certification that reinforcing materials comply with Construction Documents.
      ii. Establish concrete mix design proportions in accordance with the specifications and ACI 318, Chapter 5.
      iii. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.
   c. NON-SHRINK GROUTING
      i. Submit product data sheets for non-shrink grout that shows compliance with the Construction Documents and with ASTM C1107 for fluid or flowable grouts, prior to placement of grout.
   d. CONCRETE MASONRY
      i. Submit a certification from each manufacturer or supplier stating that the following materials comply with the Construction Documents:
         1. Concrete masonry units.
         2. Mortar materials: Portland cement, hydrated lime, and aggregates.
         3. Grout materials: Portland cement and aggregates.
         4. Joint reinforcement steel.
         5. Reinforcing steel.
   e. STRUCTURAL STEEL
      i. If fabricator or erector is not AISC certified, the fabricator and/or erector shall establish and maintain *quality control* procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel Building, AISC 360-10 and the *construction documents*. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the fabricator and Erector.
         1. Make available the documents listed in AISC 360-10 N3.2 in electronic or printed form for review by the EOR of the EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted:
      ii. Provide non-destructive test (NDT) reports performed in shop by fabricator. Fabricator is responsible for cost of NDT performed in shop. Reports shall identify the tested weld by piece mark and location in the piece.
   f. POST-INSTALLED ANCHORS
      i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place.
   g. STEEL JOISTS
      i. Submit manufacturer's certificate of compliance that the steel joists comply with the Construction Documents.
   h. STEEL DECK
      i. Submit manufacturer's certificate of compliance that the supplied steel deck complies with the Construction Documents.
   i. COLD-FORMED EXTERIOR STEEL STUDS
      i. Submit manufacturer's certification that the supplied cold-formed members comply with the Construction Documents.

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STRUCTURAL QUALITY ASSURANCE PLAN
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
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Structural Engineer:
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BG# 19-262

Project No: 1904
Drawn By: AO/CCA
Rev'd By: CH/DH

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CONSTRUCTION DOCUMENTS

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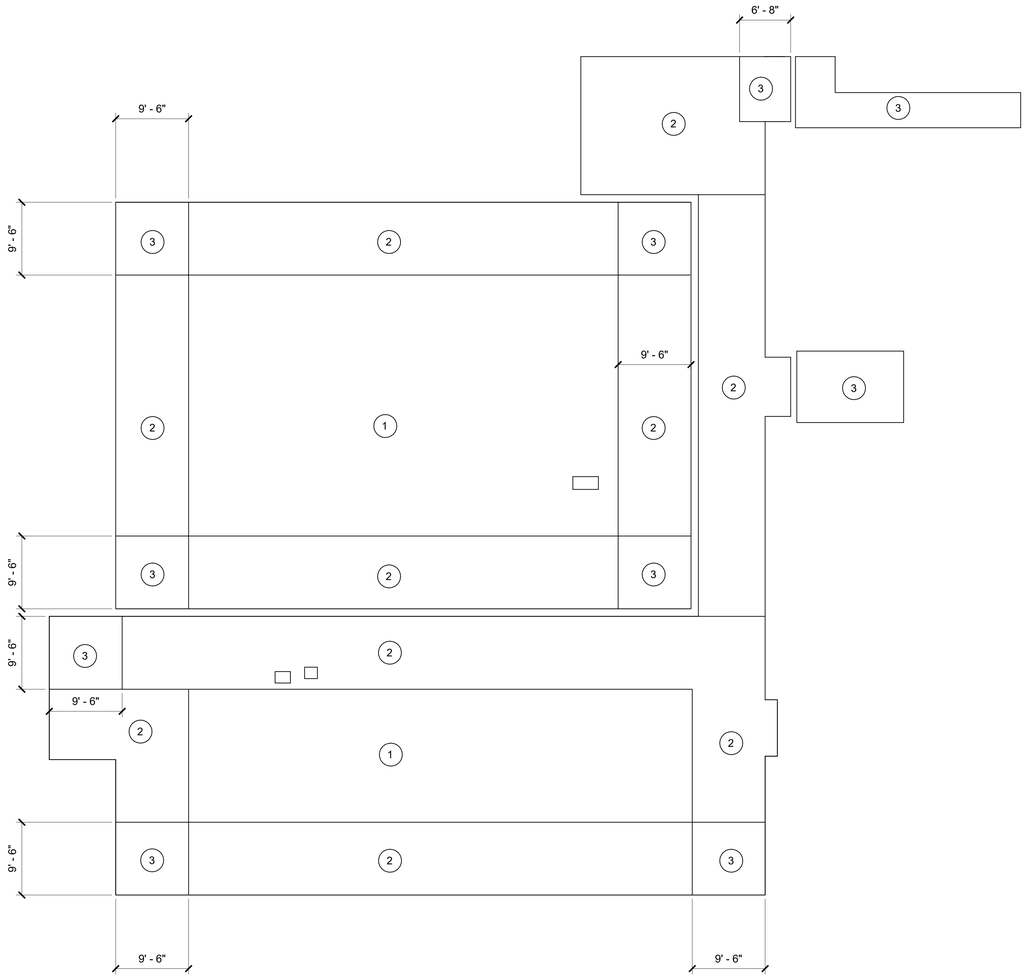
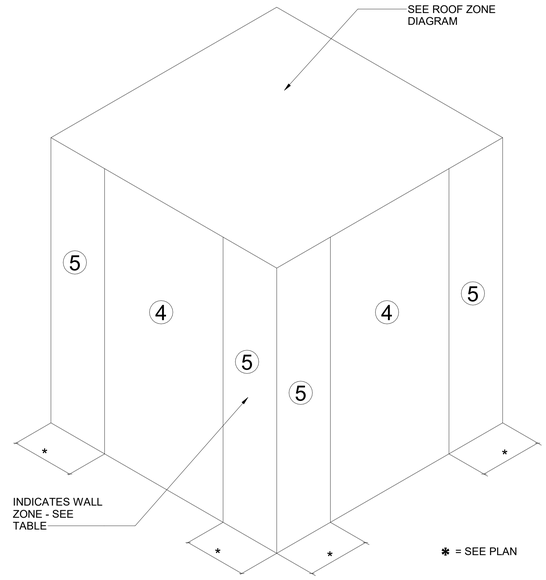
STRUCTURAL QUALITY ASSURANCE PLAN
DATE ISSUED:
09/13/19

WIND PRESSURE DIAGRAM



WIND PRESSURE PLAN

1/8" = 1'-0"



WALL ZONE DIAGRAM

ROOF UPLIFT PRESSURES			
AREA (SQ. FT)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)
10	-31.4	-52.7	-79.3
20	-30.6	-47.1	-65.7
50	-29.5	-39.7	-47.7
≥ 100	-28.7	-34.0	-34.0

EXTERIOR WALL PRESSURES		
AREA (SQ. FT)	ZONE 4 (PSF)	ZONE 5 (PSF)
10	+28.7 / -31.1	+28.7 / -38.3
20	+27.5 / -29.8	+27.5 / -35.8
50	+25.8 / -28.2	+25.8 / -32.4
100	+24.5 / -26.9	+24.5 / -29.8
200	+23.2 / -25.6	+23.2 / -27.3
≥ 500	+21.5 / -23.9	+21.5 / -23.9

PARAPET PRESSURES	
AREA (SQ. FT)	TYPICAL (PSF)
10	+/- 75.2
20	+/- 68.0
50	+/- 58.5
≥ 100	+/- 51.3

WIND PRESSURE DIAGRAM NOTES:

1. DESIGN WIND PRESSURES WERE CALCULATED IN ACCORDANCE WITH ASCE 7-10 BASED ON AN EFFECTIVE WIND AREA. MULTIPLY BY 0.6 FOR ASD.
2. ROOF UPLIFT WIND PRESSURES IN ZONES 1, 2, AND 3 ARE GROSS UPLIFT VALUES. NET UPLIFT PRESSURES SHALL BE CONSIDERED EQUAL TO GROSS PRESSURES.
3. TABULATED WIND PRESSURES SHALL BE USED IN THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS. INTERPRETATION AND APPLICATION OF THESE PRESSURES TO SPECIFIC PORTIONS OF THE BUILDING AREAS SHALL BE THE RESPONSIBILITY OF THE EXTERIOR COMPONENT AND CLADDING MATERIAL SUPPLIER.
4. WHERE PARAPET HEIGHT EXCEEDS 3' - 0", CORNER ZONES (ZONE 3), MAY BE TREATED AS PERIMETER ZONES (ZONE 2).

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WIND PRESSURE DIAGRAM PLAN

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

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BG# 19-262

Project No: 1904
Drawn By: AO/CCA
Rev'd By: CH/DH

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CONSTRUCTION DOCUMENTS

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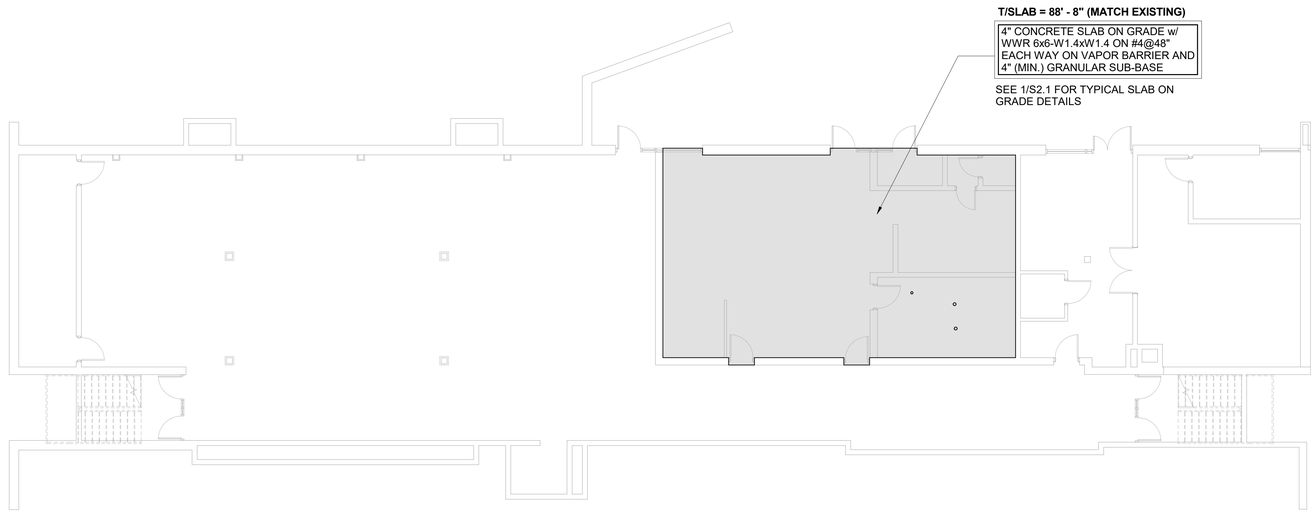
WIND PRESSURE DIAGRAM PLAN

DATE ISSUED:
09/13/19



BASEMENT PLAN

1/8" = 1'-0"

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BASEMENT PLAN

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

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BG# 19-262

Project No:	1904
Drawn By:	AO/CCA
Rev'd By:	CH/DH

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CONSTRUCTION DOCUMENTS

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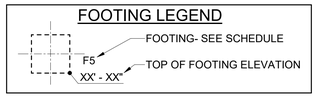
BASEMENT PLAN

DATE ISSUED:
09/13/19

FOUNDATION NOTES:

1. WALL REINFORCING FOR FULL HEIGHT OF WALLS IS INDICATED ON PLANS (ie, X" #X@XX", DENOTES CMU/BAR SIZE/BAR SPACING) SEE TYPICAL CMU / WALL REINFORCING DETAIL FOR ADDITIONAL REINFORCING AT OPENINGS, CORNERS, CMU CONTRACTION JOINTS, ETC.
2. WALLS SHOWN ON PLAN WITHOUT REINFORCING INDICATED TO HAVE MINIMUM REINFORCING AS SHOWN IN THE TYPICAL CMU WALL REINFORCING DETAIL.
3. LINTELS ABOVE DOOR AND WINDOW OPENINGS ARE SHOWN ON PLANS. "LX" -SEE CMU LINTEL SCHEDULE FOR SIZE AND REINFORCING.
4. CJ (CMU CONTRACTION JOINT) SHOWN ON PLANS INDICATES APPROPRIATE LOCATIONS OF CONTRACTION JOINTS. LOCATIONS ARE INTENDED TO COINCIDE WITH CMU COURSING. COORDINATE LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK JOINTS.
5. ALL DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE DETAILING AND CONSTRUCTION AR TO BEGIN. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. DO NOT LOCATE PLUMBING LINES WITHIN CONCRETE FOOTINGS OR GRADE BEAMS.

FOOTING LEGEND

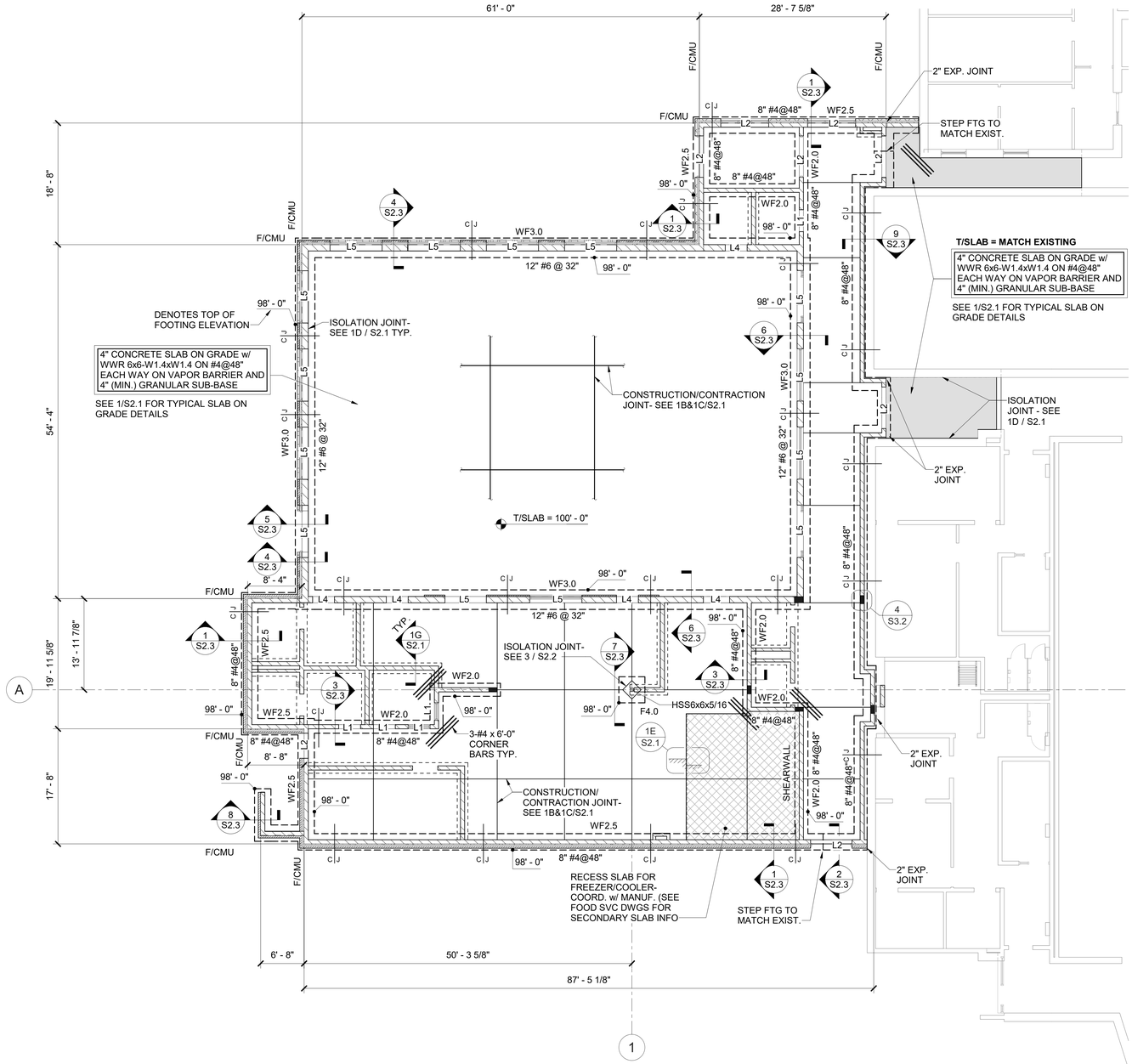


WALL FOOTING SCHEDULE

MARK	SIZE	BOTTOM REINF.	REMARKS
WF2.0	2'-0"x2'-0"x1'-3"	3-#4 EW	
WF2.5	2'-6"x2'-6"x1'-3"	4-#5 EW	
WF3.0	3'-0"x3'-0"x1'-3"	4-#5 EW	

COLUMN FOOTING SCHEDULE

MARK	SIZE	BOTTOM REINF.	REMARKS
F3.0	3'-0"x3'-0"x1'-3"	4-#5 EW	
F4.0	4'-0"x4'-0"x1'-3"	4-#5 EW	
F6.5	6'-6"x6'-6"x1'-6"	6-#6 EW	



FOUNDATION PLAN

1/8" = 1'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

FOUNDATION PLAN
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	AO/CCA
Rev'd By:	CH/DH

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FOUNDATION PLAN

DATE ISSUED:
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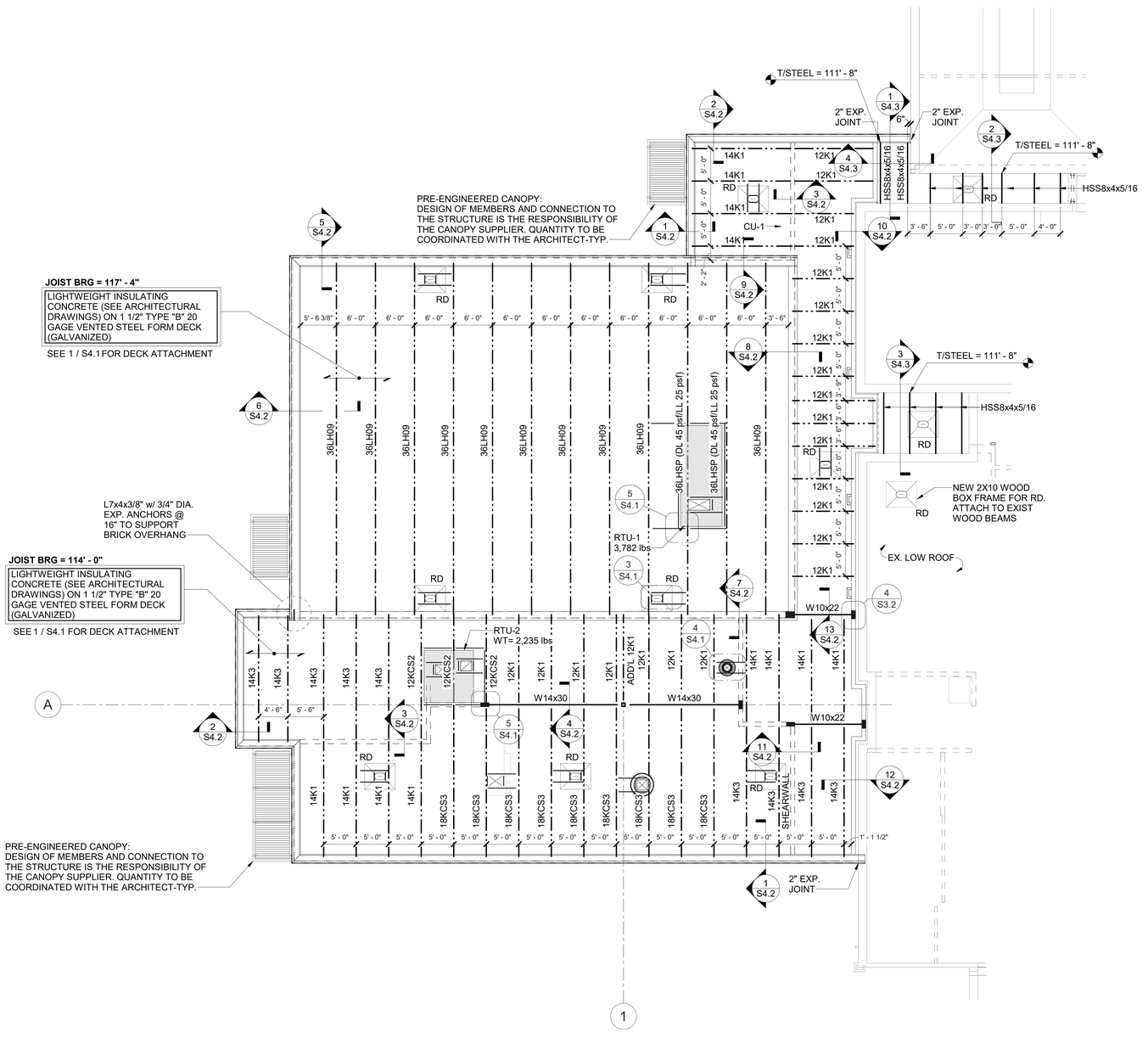

ROOF FRAMING PLAN

1/8" = 1'-0"

CONTRACTOR / MECHANICAL EQUIPMENT NOTES:

MECHANICAL ROOF EQUIPMENT SHOWN IS FOR INFORMATION PURPOSES ONLY. ACTUAL UNIT SIZES, WEIGHTS, AND SUPPORT FRAMES MUST BE VERIFIED WITH FINAL MECHANICAL DRAWINGS BY THE CONTRACTOR. ANY DISCREPANCIES OF SIZE, WEIGHT, QUANTITIES, ETC. SHOULD BE SUBMITTED IN WRITING TO ENGINEER PRIOR TO PRODUCING SHOP DRAWINGS.

LOCATIONS AND DIMENSIONS OF ROOF TOP EQUIPMENT SUPPORT FRAMES SHALL BE PROVIDED BY CONTRACTOR FOR JOIST LAYOUT AND DESIGN PURPOSES.

GENERAL CONTRACTOR SHALL VERIFY DUCTWORK LOCATION, PENETRATION AND ROUTING WITH STRUCTURAL RESTRICTIONS PRIOR TO CONSTRUCTION OF DUCTWORK AND ROOF TOP MOUNTED EQUIPMENT. DUCTWORK SIZE AND ROUTING MAY BE ALTERED TO CONFORM TO STRUCTURAL REQUIREMENTS AS APPROVED BY THE ENGINEER.

ALL ROOF AND WALL OPENINGS AND ROOF FLASHING SHALL BE PROVIDED AND INSTALLED BY THE GENERAL / ROOFING CONTRACTOR. COORDINATE SIZE AND LOCATION OF SUCH WITH THE MECHANICAL HVAC AND PLUMBING CONTRACTOR. PROVIDE SUBSTANTIAL STEEL FRAMING (ANGLE / CHANNEL) MEMBERS AROUND THE PERIMETER OF ALL OPENINGS TO STABILIZE AND SUPPORT EQUIPMENT, ETC.

MECHANICAL CONTRACTOR SHALL VERIFY WEIGHTS OF HVAC EQUIPMENT, KITCHEN HOODS, ROOF FANS, SIDE WALL FANS, ETC. AND COORDINATE WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE ALL AUXILIARY SUPPORT STEEL (ANGLES / CHANNELS) TO SUPPORT ALL EQUIPMENT AND SHALL PROVIDE BLOCKING AND SUPPORT FOR SAME. GENERAL CONTRACTOR SHALL INDICATE ALL SUCH PENETRATIONS AND WEIGHTS ON ROOF TRUSS / JOIST SUBMITTAL DRAWINGS. ALL SOFFIT, EXTERIOR WALL, AND ROOF EQUIPMENT AND LOUVERS SHALL INCLUDE AUXILIARY SUPPORT STEEL FRAMING AROUND PERIMETER OF ALL OPENINGS. CONCEALED STEEL FRAMING SHALL BE PROVIDED BY GENERAL CONTRACTOR TO SUPPORT CEILING ACCESS DOORS NEAR EQUIPMENT INSTALLED ABOVE FIRE RATED CORRIDOR CEILINGS.

JOIST SUPPLIER NOTES:

JOISTS SHOWN ON DRAWINGS AS KCS JOISTS HAVE ROOF TOP EQUIPMENT LOADS ACCOUNTED FOR IN JOIST SELECTION. K-SERIES JOISTS SHALL HAVE THE MECHANICAL LOADS ACCOUNTED FOR IN DESIGN BY THE JOISTS SUPPLIER.

JOIST SUPPLIER SHALL COORDINATE LOCATION OF JOIST BRIDGING WITH MECHANICAL UNITS AND DUCTWORK. LOCATE BRIDGING TO NOT INTERFERE WITH UNITS OR DUCTWORK.

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101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

ROOF FRAMING PLAN

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ROOF FRAMING PLAN

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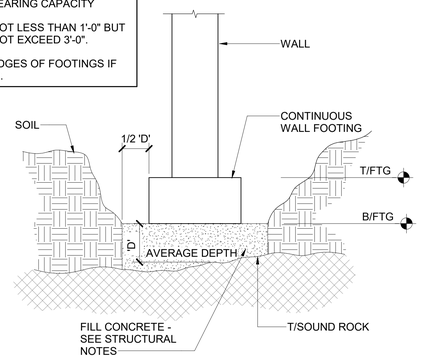
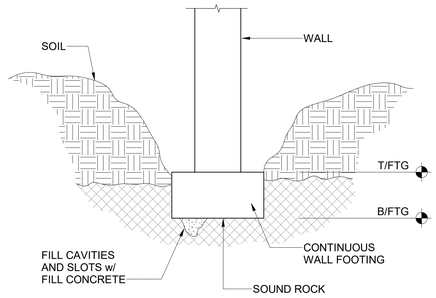
NOTES:

1. SEE STRUCTURAL NOTES FOR ROCK BEARING CAPACITY
2. 1/2 'D', NOT LESS THAN 1'-0" BUT NEED NOT EXCEED 3'-0".
3. FORM EDGES OF FOOTINGS IF NEEDED.



DESIGN BOTTOM WALL FOOTING ELEVATION ABOVE ROCK

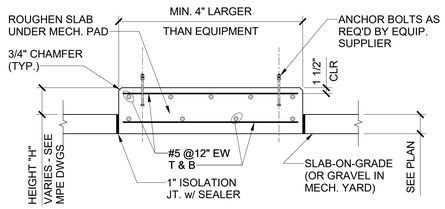


DESIGN BOTTOM WALL FOOTING ELEVATION IN ROCK

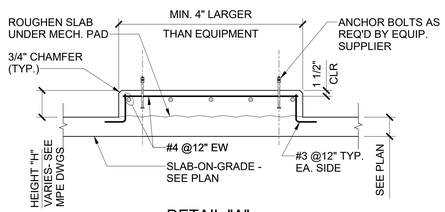
4 TYPICAL WALL FOOTING DETAILS BEARING ON ROCK

NOTE:

1. PAD AND CURB DETAILS DEPICTED ABOVE SHALL APPLY UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THE HEIGHT "H" OF THE MECHANICAL EQUIPMENT PADS SHALL BE COORDINATED WITH THE MPE DRAWINGS.
2. THE CONTRACTOR SHALL PROVIDE CONCRETE PADS ADEQUATE FOR THE SUPPORT OF THE MPE EQUIPMENT. EXACT, SIZES, LOCATIONS, HEIGHTS, AND ANY SPECIAL DETAILS FOR THE PADS SHALL BE OBTAINED FROM THE VENDORS BEFORE INSTALLATION OF THE PADS. PADS SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIPMENT STANDARDS. ALL EMBEDDED ITEMS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER. THE PADS SHALL RECEIVE A SMOOTH TROWELED FINISH.
3. DETAIL 'A' -- FOR USE UNDER ALL EQUIPMENT SUPPORTED ON SLABS-ON-GRADE.
4. DETAIL 'B' -- FOR USE UNDER ALL EQUIPMENT WEIGHING OVER 2000 POUNDS SUPPORTED ON SLABS-ON-GRADE (ISOLATED).

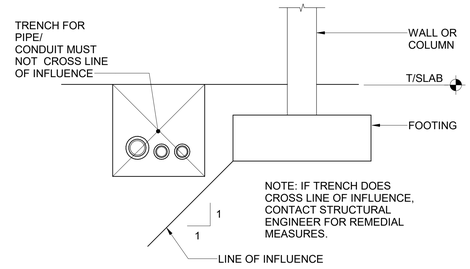


DETAIL "B"

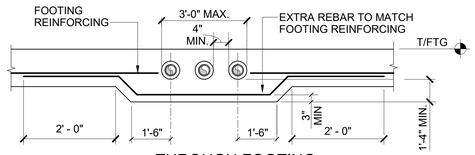


DETAIL "A"

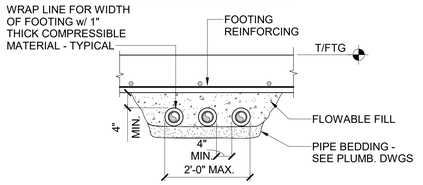
3 EQUIPMENT PAD DETAILS AT SLAB-ON-GRADE



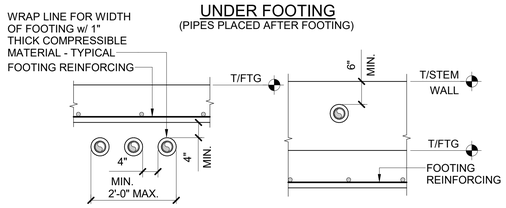
2E PIPE/CONDUIT TRENCH PARALLEL TO FOOTING



THROUGH FOOTING



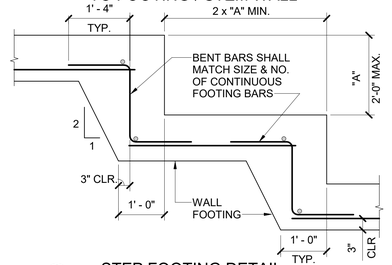
UNDER FOOTING
(PIPES PLACED AFTER FOOTING)



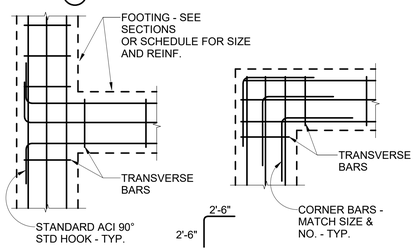
UNDER FOOTING
(PIPES PLACE PRIOR TO FOOTING)

THRU STEM WALL

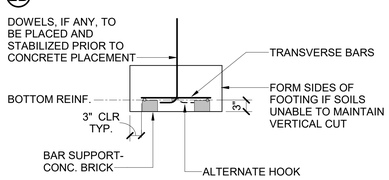
2D PIPE/CONDUIT LINES PERPENDICULAR TO FOOTING / STEM WALL



2C STEP FOOTING DETAIL

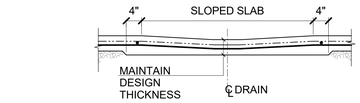


2B FOOTING CORNER REINFORCMENT

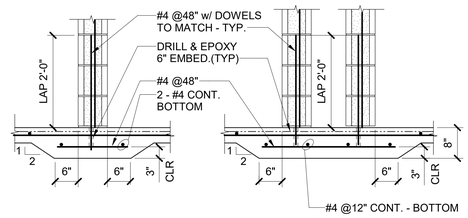


2A TYPICAL CONTINUOUS FOOTING DETAIL

2 TYPICAL CONTINUOUS FOOTING DETAILS

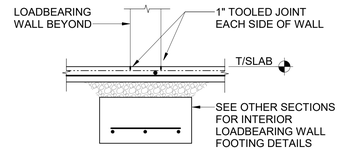


1H SLOPED SLAB AT FLOOR DRAIN

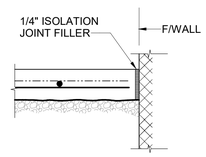


AT CONTINUOUS SLAB AT DOUBLE WALL

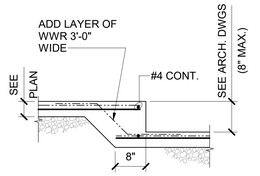
1G THICKENED SLAB AT NON-LOADBEARING CMU WALLS



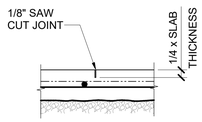
1F CONTRACTION JOINT AT DOORS



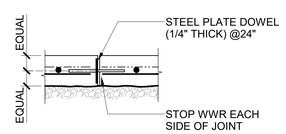
1D ISOLATION JOINT



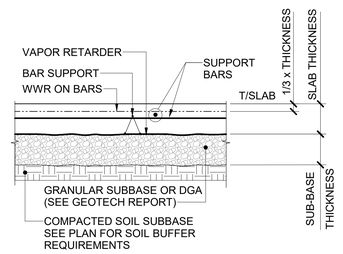
1E SLAB RECESS



1B CONTRACTION JOINT
(AT 16'-0" MAX.)



1C CONSTRUCTION JOINT
(LOCATED AT CONTRACTOR'S PREFERENCE)



1A TYPICAL SLAB SECTION

1 TYPICAL SLAB-ON-GRADE DETAILS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

FOUNDATION SECTIONS AND DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

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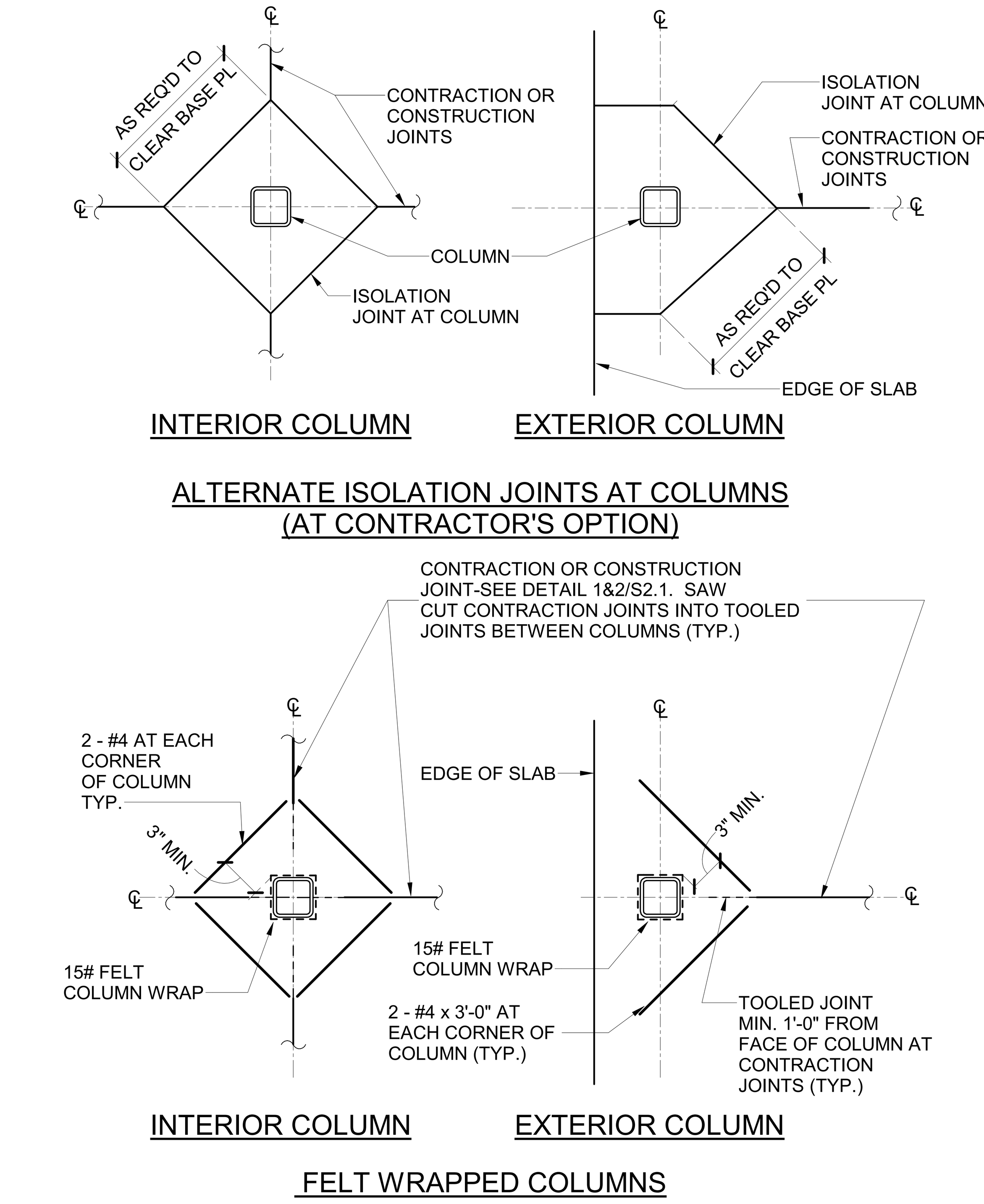
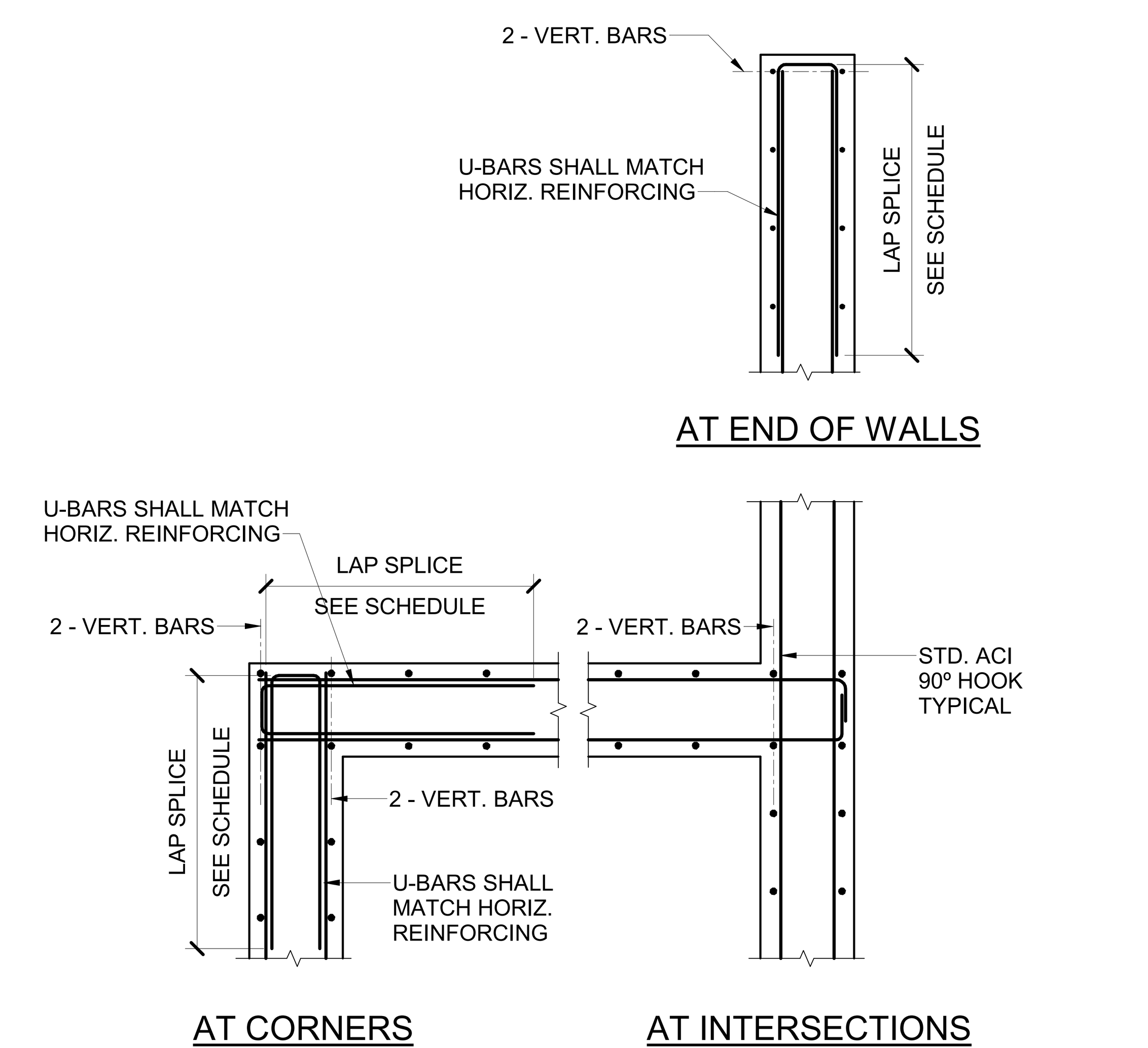
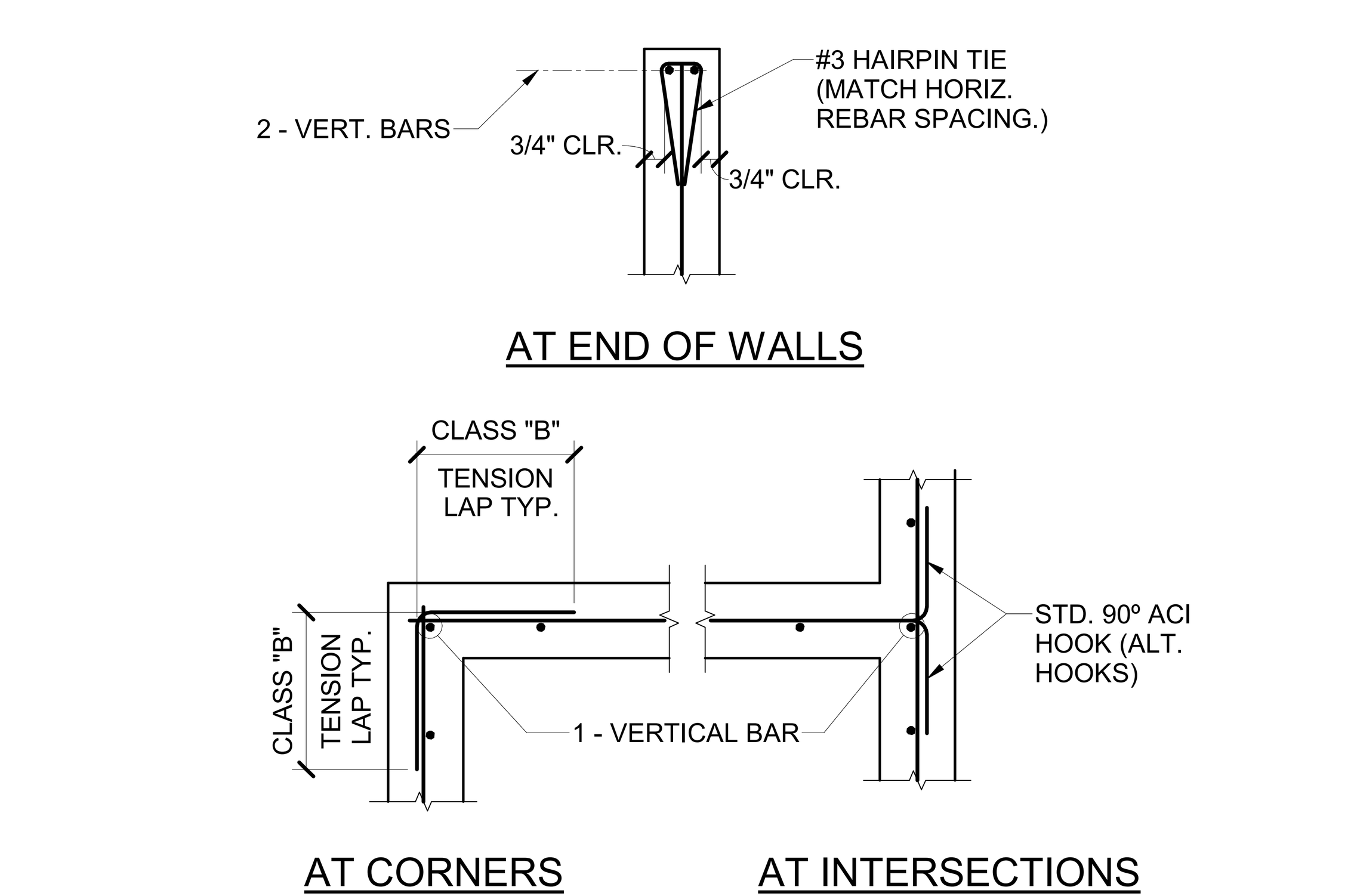


3 TYPICAL ISOLATION JOINT DETAILS AT "HSS" STEEL COLUMNS



2 TYPICAL DOUBLE MAT REINFORCING DETAIL FOR CONCRETE WALLS



1 TYPICAL SINGLE MAT REINFORCING DETAIL FOR CONCRETE WALLS

Bar Size	Concrete Minimum 28 Day Compressive Strength, f'c = 3000 psi — Case 1 Top Bars	Case 1 Other Bars	Case 2 Top Bars	Case 2 Other Bars
#3	2'-6"	2'-0"	3'-9"	3'-0"
#4	3'-3"	2'-9"	5'-0"	3'-9"
#5	4'-3"	3'-3"	6'-0"	4'-9"
#6	5'-0"	3'-9"	7'-3"	5'-6"
#7	7'-0"	5'-6"	10'-6"	8'-0"
#8	8'-0"	6'-3"	11'-9"	9'-3"
#9	9'-0"	7'-0"	13'-3"	10'-3"
#10	10'-0"	7'-9"	15'-0"	11'-6"
#11	11'-3"	8'-9"	16'-6"	12'-9"

Bar Size	Concrete Minimum 28 Day Compressive Strength, f'c = 4000 psi — Case 1 Top Bars	Case 1 Other Bars	Case 2 Top Bars	Case 2 Other Bars
#3	2'-3"	1'-9"	3'-3"	2'-6"
#4	3'-0"	2'-3'	4'-3"	3'-3"
#5	3'-6"	2'-9"	5'-3"	4'-3"
#6	5'-3"	4'-0"	7'-9"	6'-0"
#7	7'-6"	5'-9"	11'-3"	8'-9"
#8	8'-6"	6'-6"	12'-9"	9'-9"
#9	9'-6"	7'-6"	14'-3"	11'-0"
#10	10'-9"	8'-3"	16'-0"	12'-6"
#11	12'-0"	9'-3"	17'-9"	13'-9"

Bar Size	Concrete Minimum 28 Day Compressive Strength, f'c = 5000 psi — Case 1 Top Bars	Case 1 Other Bars	Case 2 Top Bars	Case 2 Other Bars
#3	2'-0"	1'-9"	3'-0"	2'-3"
#4	2'-9"	2'-3"	3'-9"	3'-0"
#5	3'-3"	2'-6"	4'-9"	3'-9"
#6	4'-9"	3'-9"	7'-0"	5'-6"
#7	6'-9"	5'-3"	10'-0"	7'-9"
#8	7'-9"	6'-0"	11'-6"	8'-9"
#9	8'-9"	6'-9"	12'-9"	10'-0"
#10	9'-9"	7'-6"	14'-6"	11'-3"
#11	10'-9"	8'-3"	16'-0"	12'-3"

Bar Size	Concrete Minimum 28 Day Compressive Strength, f'c = 6000 psi — Case 1 Top Bars	Case 1 Other Bars	Case 2 Top Bars	Case 2 Other Bars
#3	2'-0"	1'-6"	2'-9"	2'-3"
#4	2'-6"	2'-0"	3'-6"	2'-9"
#5	3'-0"	2'-3"	4'-3"	3'-6"
#6	3'-6"	2'-9"	5'-3"	4'-0"
#7	5'-0"	4'-0"	8'-6"	6'-6"
#8	5'-9"	4'-6"	8'-6"	6'-6"
#9	6'-6"	5'-0"	9'-6"	7'-3"
#10	7'-3"	5'-6"	10'-9"	8'-3"
#11	8'-0"	6'-3"	11'-9"	9'-3"

SPLICE LENGTH NOTES:

Case #1: For beams and columns, concrete cover greater than or equal to bar diameter, bar spacing greater than or equal to 2 times bar diameter, and ties as specified on the drawings. For other members, concrete cover greater than or equal to bar diameter and bar spacing greater than or equal to 3 times bar diameter.

Case #2: For beams and columns, concrete cover less than bar diameter and bar spacing less than 2 bar diameters. For other members, concrete cover less than bar diameter and bar spacing less than 3 times bar diameter.

Top bars are horizontal reinforcement with more than 12" of fresh concrete placed below the splice.

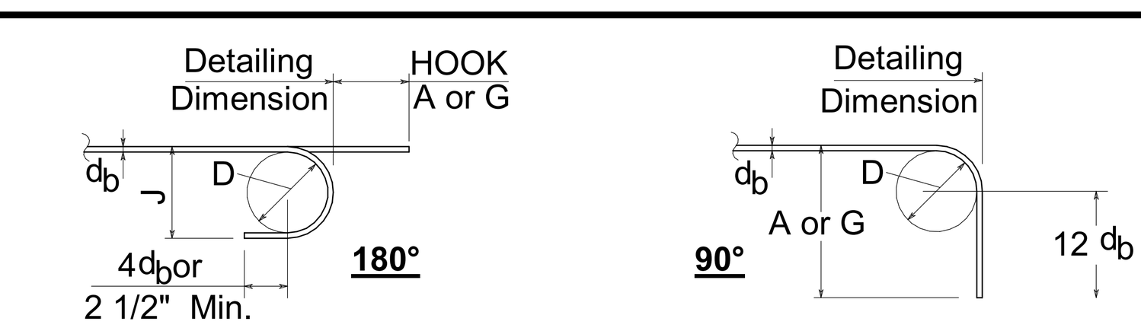
Where indicated on the drawings, class "A" lap splice lengths may be calculated by dividing tabulated values by 1.3.

As contractor's alternate, class "B" splice lengths may be calculated by the steel reinforcement detailer in accordance with ACI 318 and submitted for review.

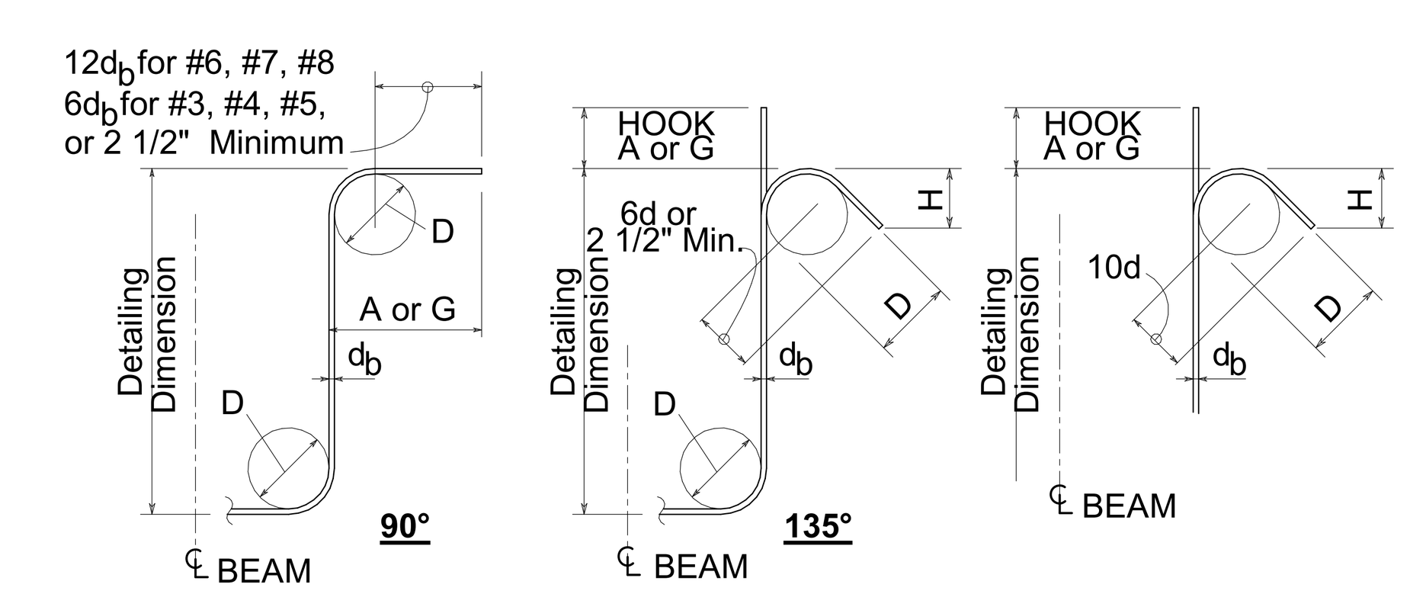
Tension couplers may be used and installed in accordance with manufacturer's recommendations and shall be capable of developing 125% of the reinforcing steel ASTM specified minimum yield strength.

For lightweight structural concrete, multiply lap splice lengths by 1.3

CONCRETE REINFORCEMENT CLASS "B" SPLICE LENGTHS (UNO)



BAR SIZE	FINISHED BEND DIAMETER D, in.	RECOMMENDED END HOOKS, ALL GRADES — 180 DEG. HOOKS A or G, in.	180 DEG. HOOKS J, in.	90 DEG HOOKS A or G, in.
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"
#11	12"	1'-7"	1'-2 3/4"	2'-0"
#14	18 1/4"	2'-3"	1'-9 3/4"	2'-7"
#18	24"	3'-0"	2'-4 1/2"	3'-5"



STIRRUP AND TIE HOOKS

135 DEGREE -SEISMIC STIRRUP / TIE HOOKS

BAR SIZE	D,in*	STIRRUP & TIE HOOK DIMENSIONS, in.* — A or G	135° HOOKS A or G	135° HOOKS H APPROX.	135° STIRRUP - TIE HOOK DIMENSIONS, in.* — 135° HOOKS A or G	135° HOOKS H APPROX.
#3	1 1/2"	4"	4"	2 1/2"	4 1/4"	3"
#4	2"	4 1/2"	4 1/2"	3"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	8"	4 1/2"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/4"	9"	5 1/4"
#8	6"	1'-4"	10 1/2"	6"	10 1/2"	6"

* GRADES 40, 50 and 60

TYPICAL BAR HOOK DETAILS

4 SCHEDULES

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

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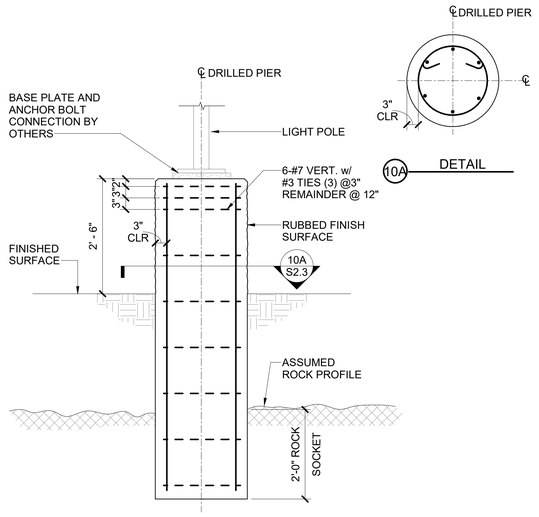
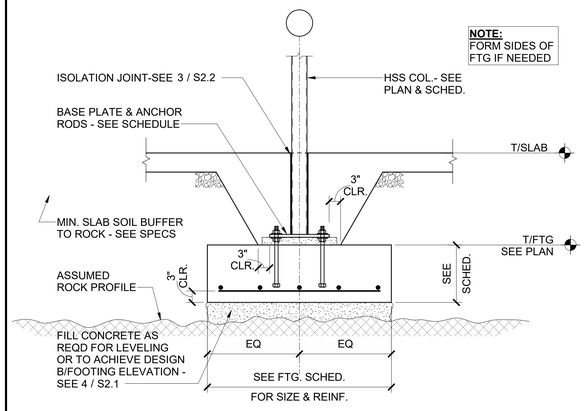
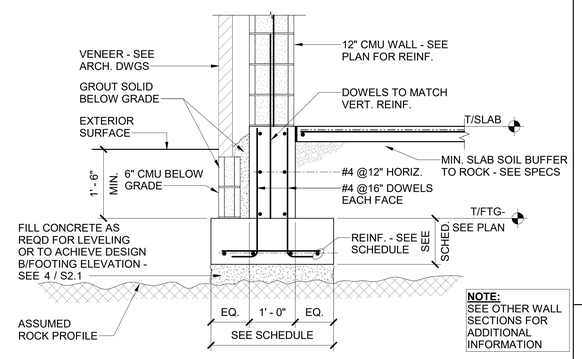


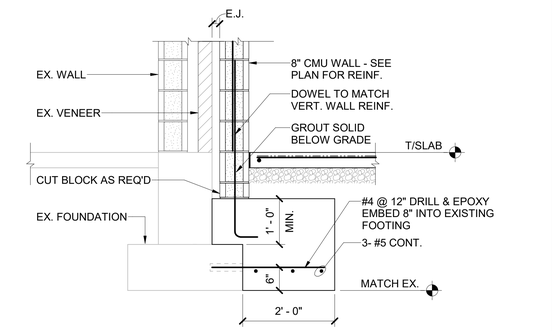
10 SECTION AT LIGHT POLE



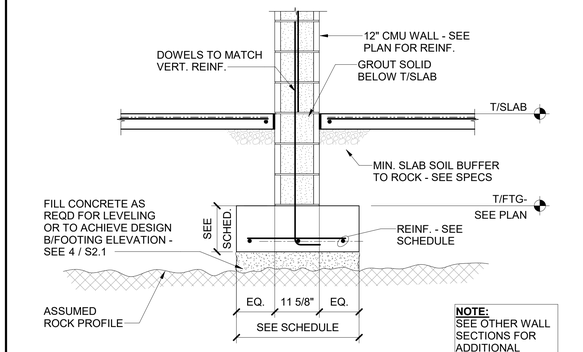
7 SECTION AT INTERIOR COLUMN



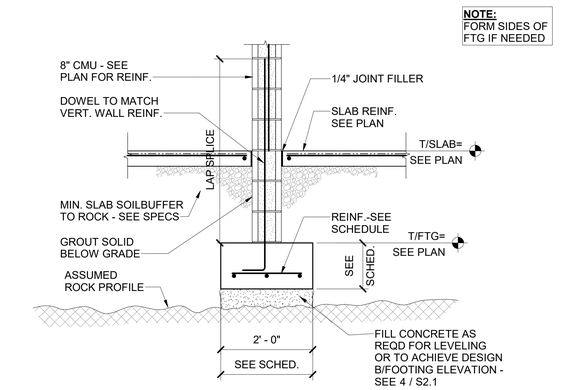
4 SECTION AT EXTERIOR WALL FOOTING



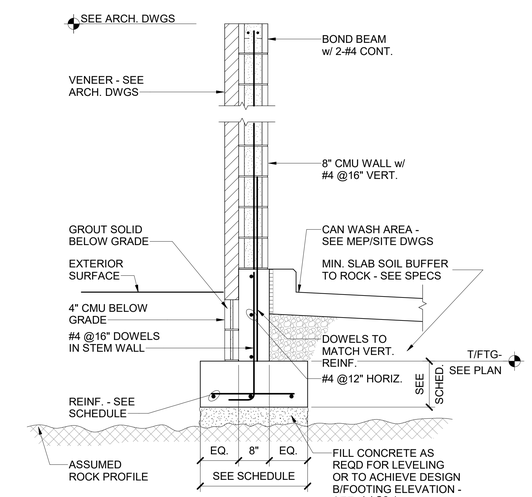
9 SECTION



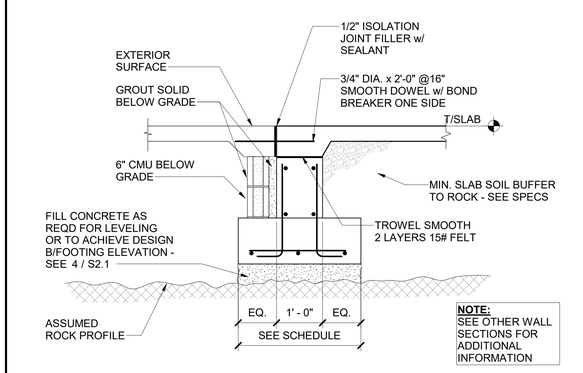
6 SECTION AT INTERIOR LOADBEARING WALL



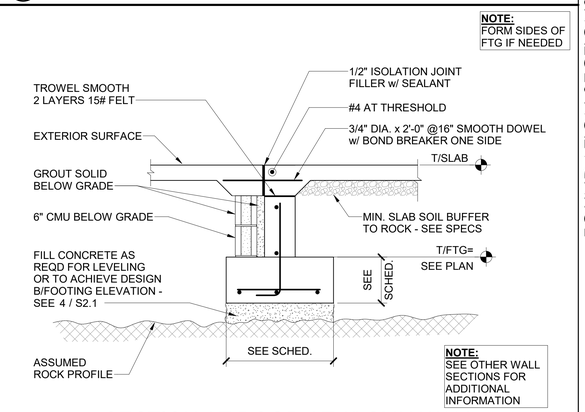
3 SECTION AT INTERIOR LOADBEARING WALL



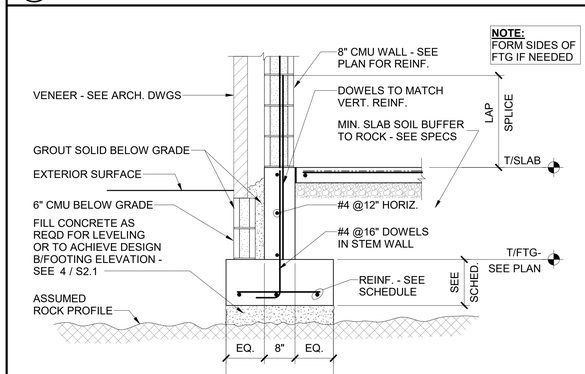
8 SECTION AT CAN WASH



5 SECTION AT DOOR AT 12" CMU WALL



2 SECTION AT DOOR AT 8" CMU WALL



1 SECTION AT EXTERIOR LOADBEARING WALL

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FOUNDATION SECTIONS AND DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

FOR:

BOARD OF EDUCATION

BURGIN, KENTUCKY

M.E.&P Engineer:
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2429 Members Way
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Structural Engineer:
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BG# 19-262

Project No:	1904
Drawn By:	AO/CCA
Rev'd By:	CH/DH

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FOUNDATION SECTIONS AND DETAILS

DATE ISSUED:
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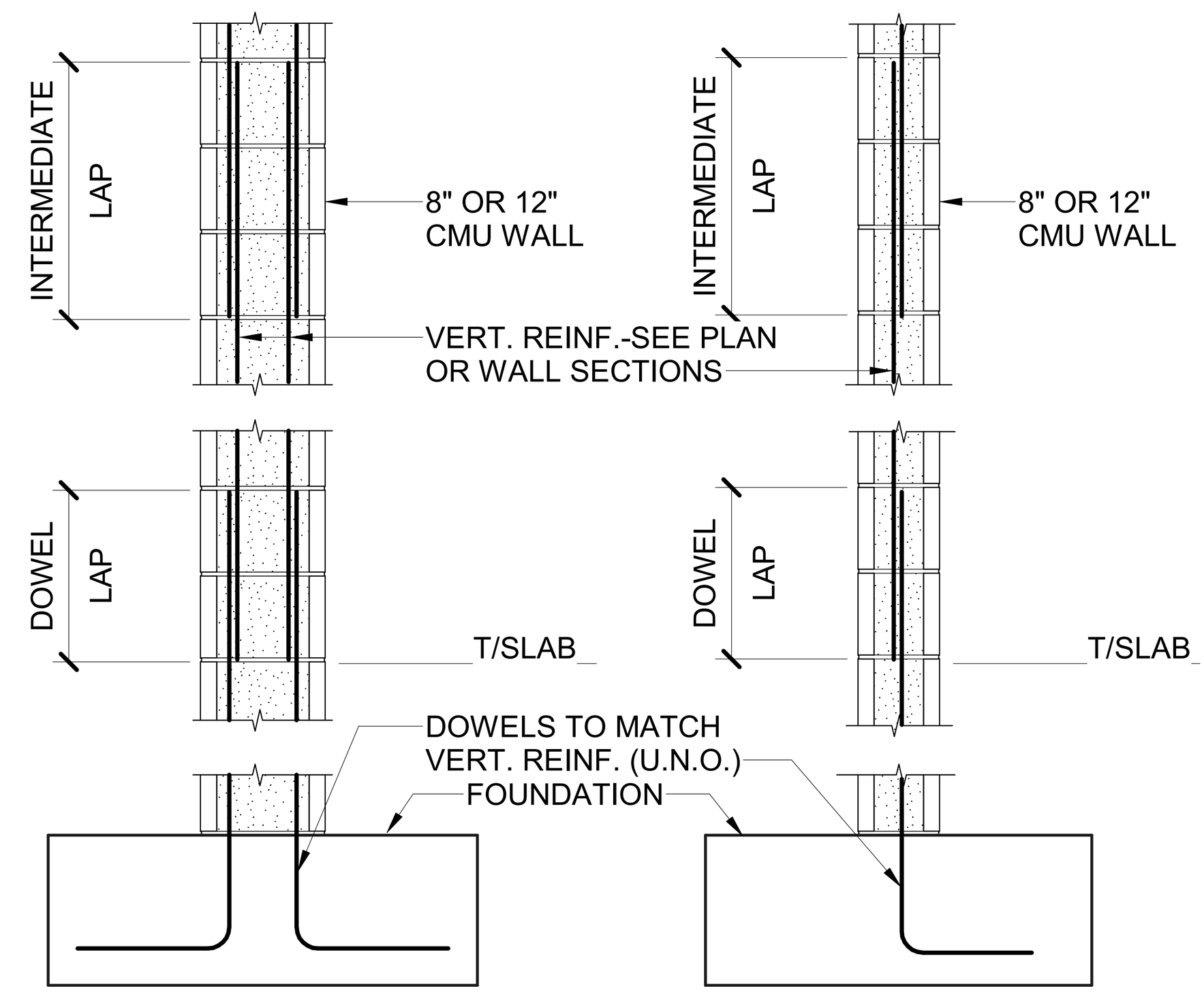
8 CMU REINFORCEMENT LAP SPLICE SCHEDULE

CMU LAP SPLICE SCHEDULE						
BAR SIZE	LAP LENGTH					
	DOWEL		INTERMEDIATE			
			8" CMU		12" CMU	
	C	F	C	F	C	F
#4	24"	24"	24"	24"	24"	24"
#5	24"	24"	24"	24"	24"	24"
#6	24"	48"	40"	48"	26"	48"
#7	24"	60"	54"	60"	36"	60"
#8	32"	90"	80"	90"	52"	90"
#9	32"	114"	104"	114"	64"	114"

NOTE:
C = BAR LAP FOR CENTERED REINF.
F = BAR LAP FOR FACE REINF.

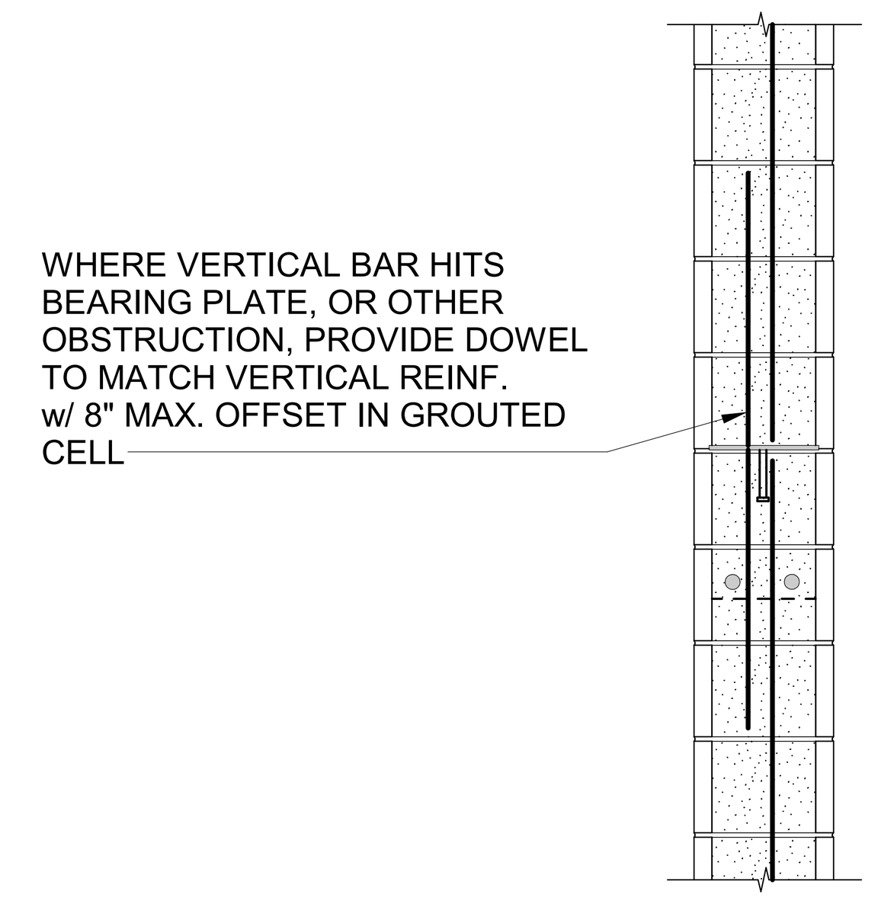
F'm = 2,000 psi (MINIMUM)



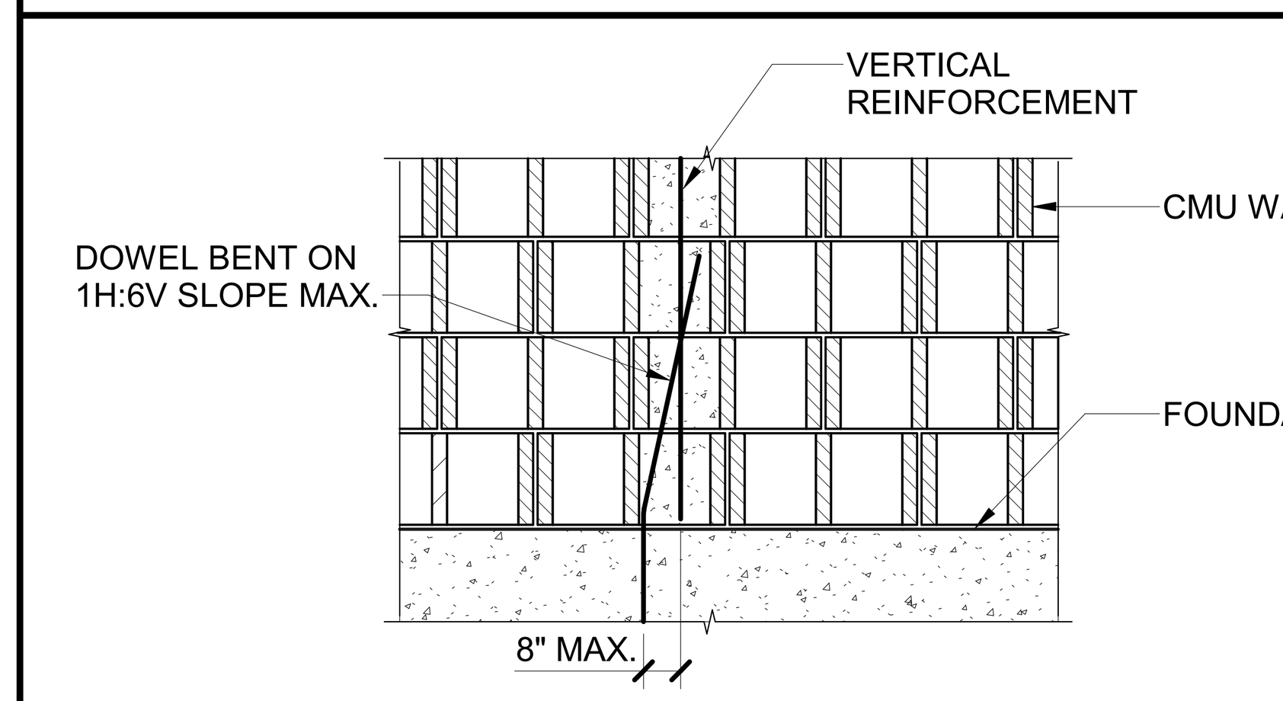
REINF. IN FACE "F" OF WALL

REINF. CENTERED "C" IN WALL

8 CMU REINFORCEMENT LAP SPLICE SCHEDULE

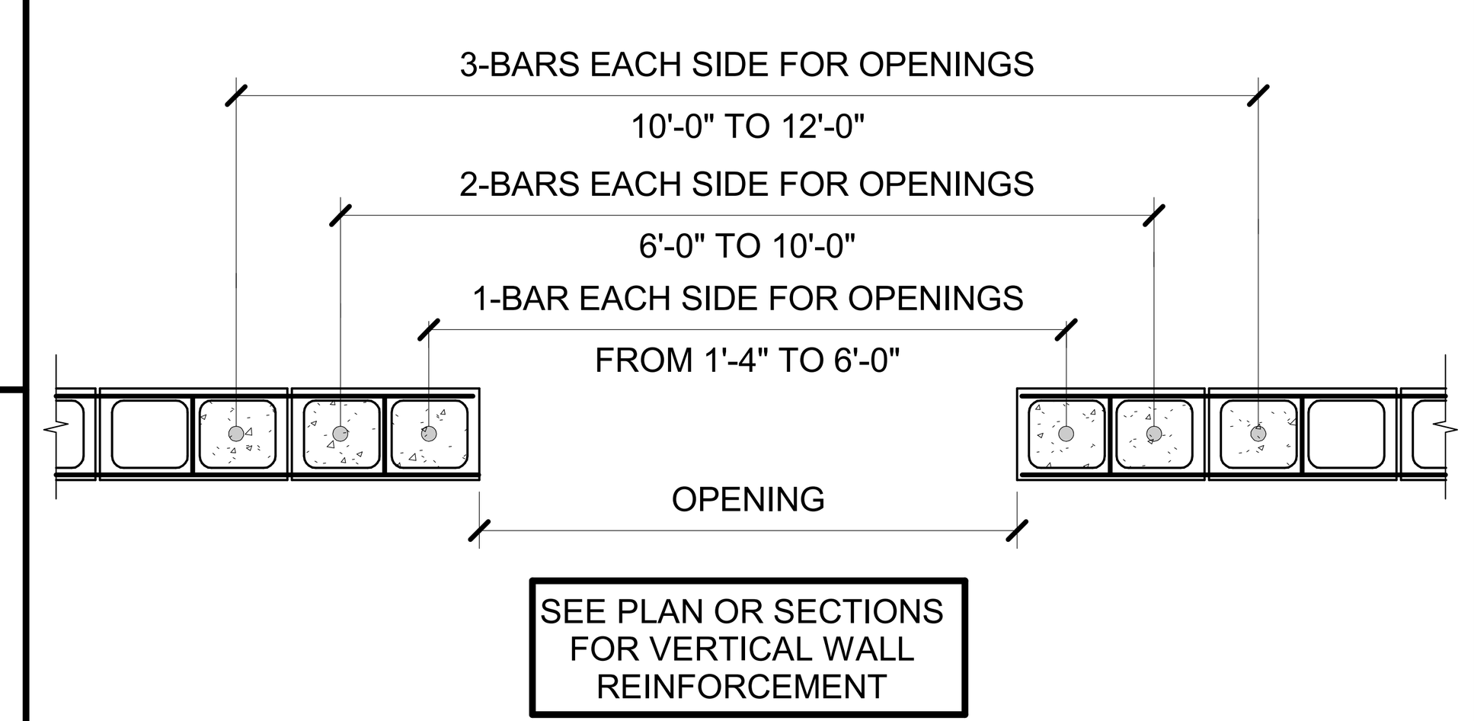


5 NON-CONTACT LAP SPLICE DETAIL

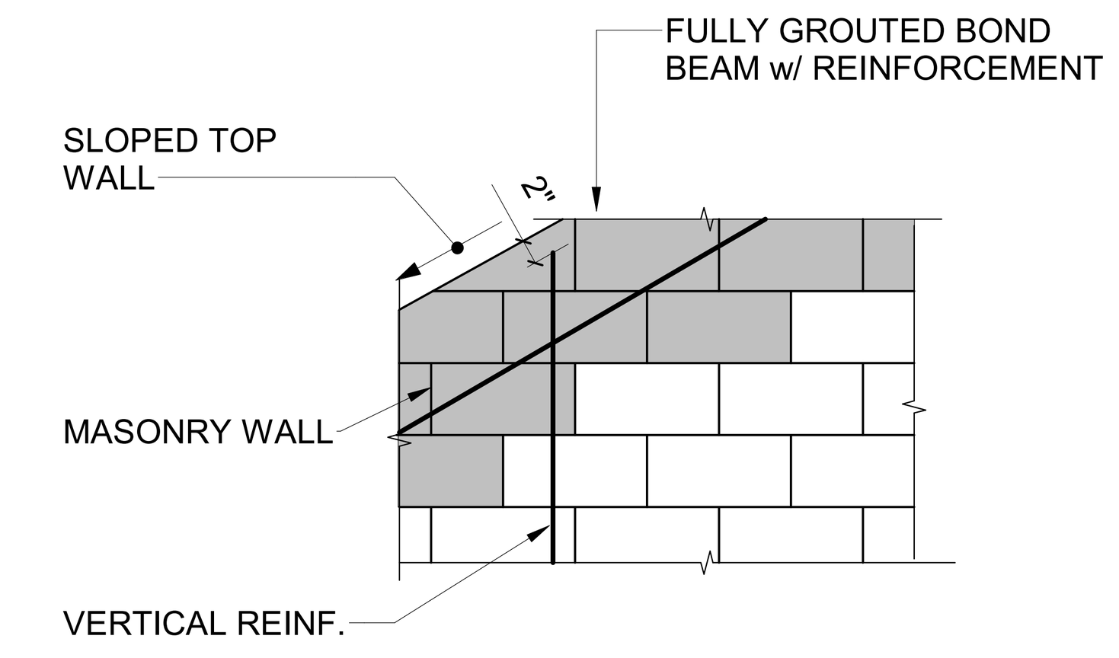


ELEVATION VIEW TOLERANCE

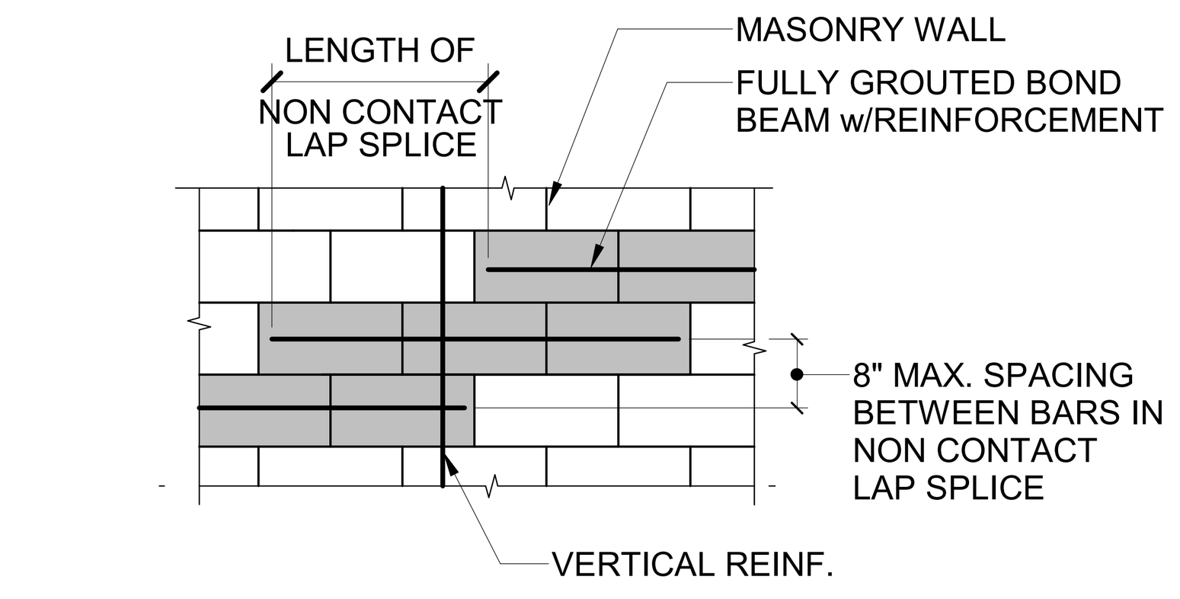
4 DOWEL-PERMITTED BENDING DETAIL



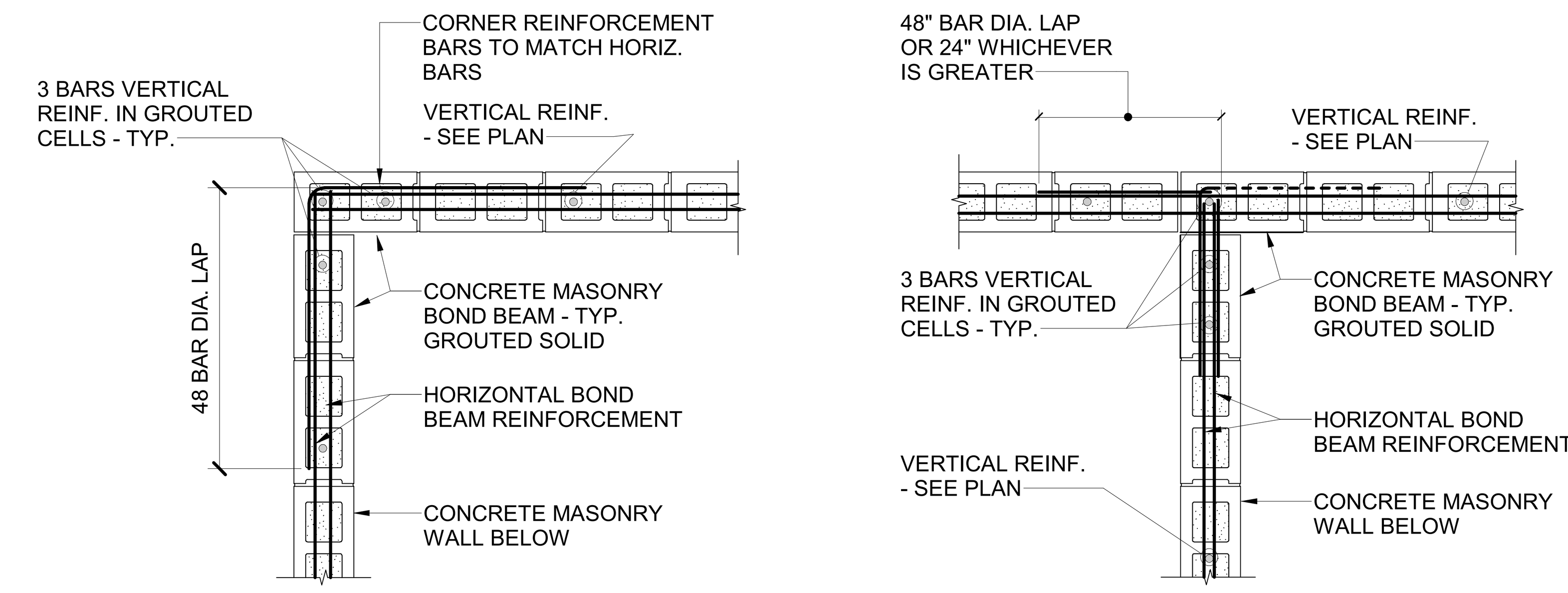
3 CMU WALL OPENING DETAIL



SLOPED BOND BEAM



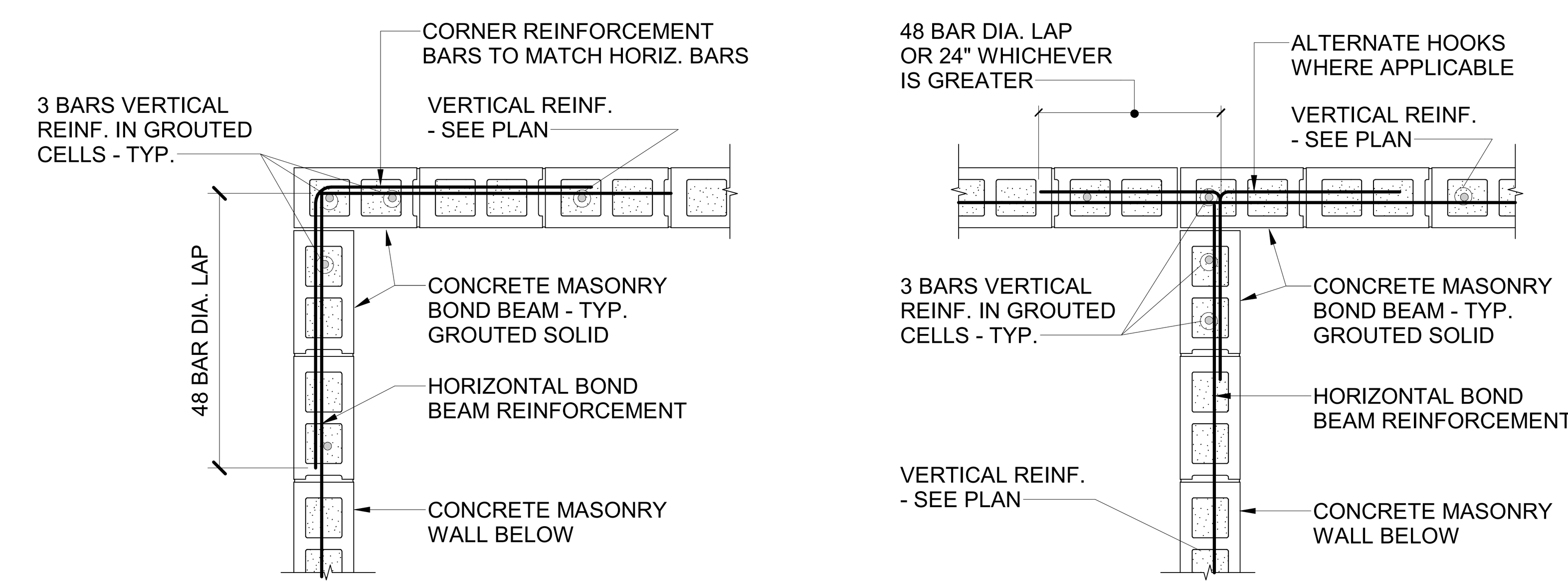
STEPPED BOND BEAM



AT CORNERS

AT INTERSECTIONS

DOUBLE ROW REINFORCEMENT



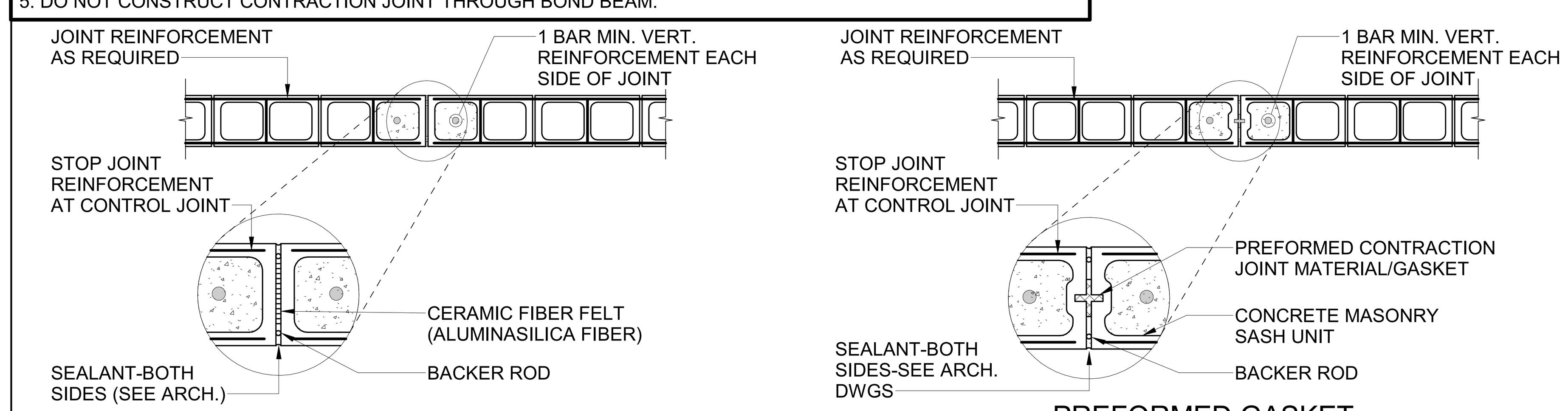
AT CORNERS

AT INTERSECTIONS

SINGLE ROW REINFORCEMENT

2 CMU BOND BEAM DETAILS

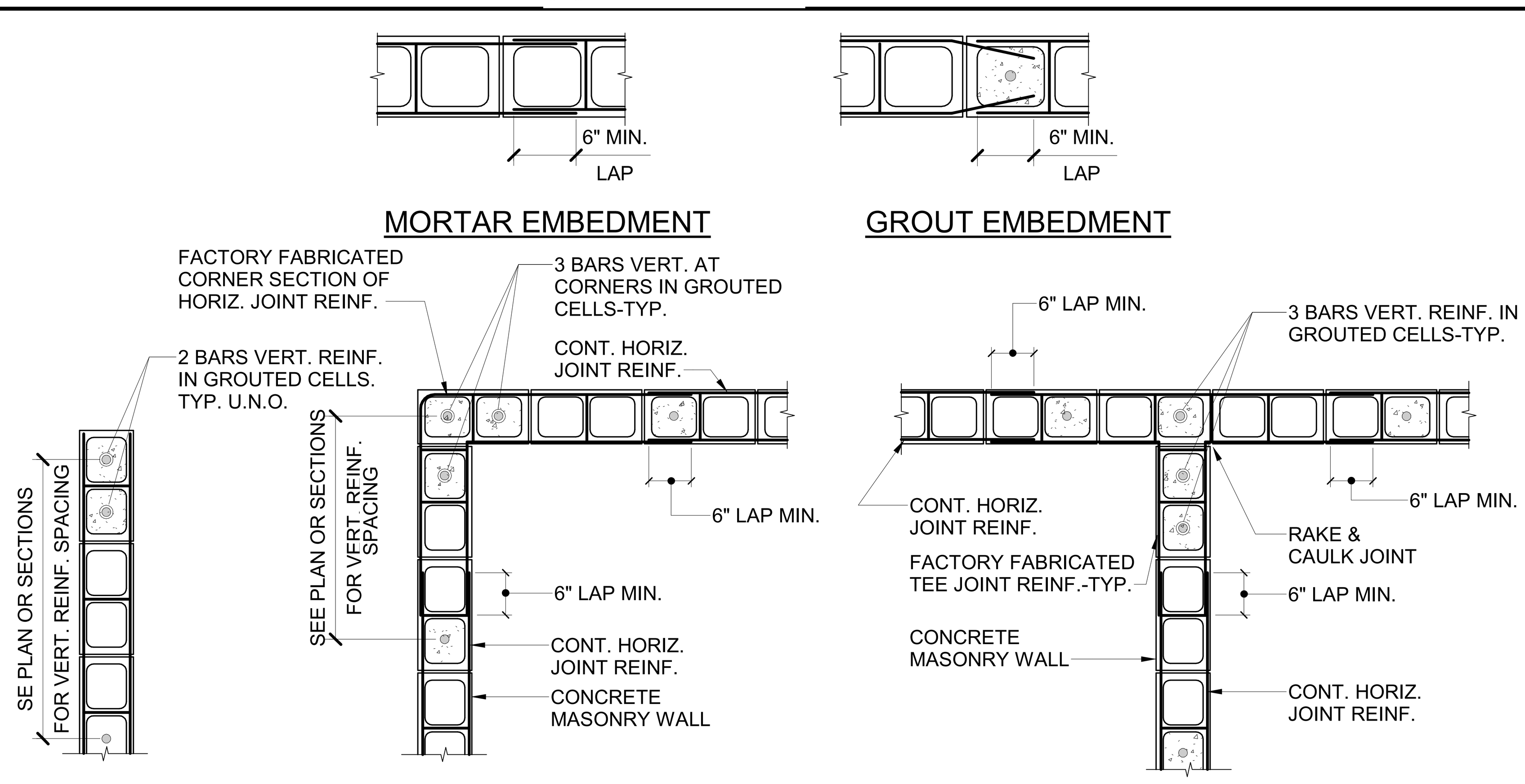
NOTE:
1. SEE PLANS FOR LOCATION OF CONTRACTION JOINTS AND STRUCTURAL NOTES FOR MAX. SPACING.
2. LOCATE CONTRACTION JOINTS 2'-0" MINIMUM FROM SIDES OF OPENINGS.
3. CJ (CMU CONTRACTION JOINT) SHOWN ON PLANS INDICATES APPROXIMATE LOCATIONS OF CONTRACTION JOINTS. LOCATIONS ARE INTENDED TO COINCIDE WITH CMU COURSING. COORDINATE LOCATION OF JOINTS WITH ARCH. DWGS. SEE ARCH. DWGS FOR LOCATIONS OF BRICK JOINTS.
4. COORDINATE LOCATIONS w/ARCH. DWGS.
5. DO NOT CONSTRUCT CONTRACTION JOINT THROUGH BOND BEAM.



4 HR-RATED CONTROL JOINT (IF NEEDED)

PREFORMED GASKET

7 CMU WALL CONTRACTION/CONTROL JOINT DETAIL

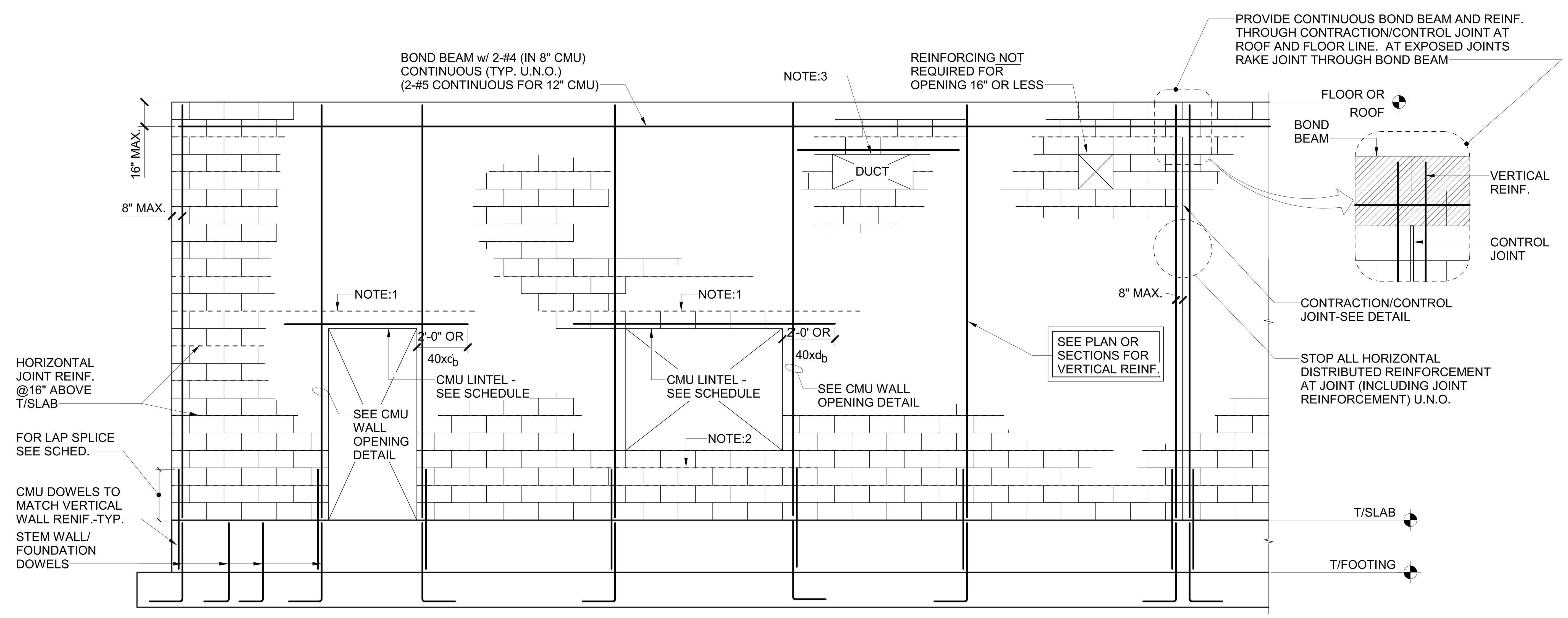


AT ENDS

AT CORNERS

AT INTERSECTIONS

6 CMU WALL HORIZONTAL JOINT REINFORCEMENT DETAIL



NOTE:
1. ADD HORIZONTAL JOINT REINFORCEMENT ABOVE LINTEL. EXTEND 4'-0" EACH SIDE OF OPENING.
2. ADD HORIZONTAL JOINT REINFORCEMENT BELOW CMU SILL. EXTEND 4'-0" EACH SIDE OF OPENING.
3. FOR MECHANICAL/PLUMBING PENETRATIONS, PROVIDE LINTEL OVER CMU OPENING PER UNMARKED CMU LINTEL SCHEDULE.

1 TYPICAL CMU WALL REINFORCING ELEVATION

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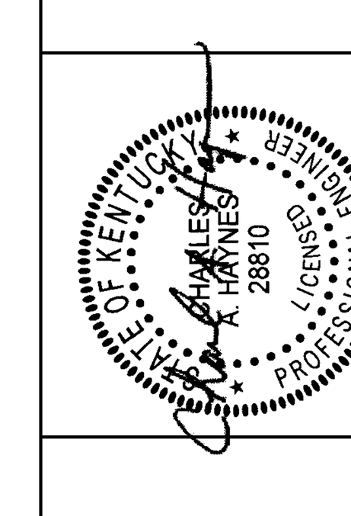

MASONRY SECTIONS AND DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
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BURGIN, KENTUCKY

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BG# 19-262

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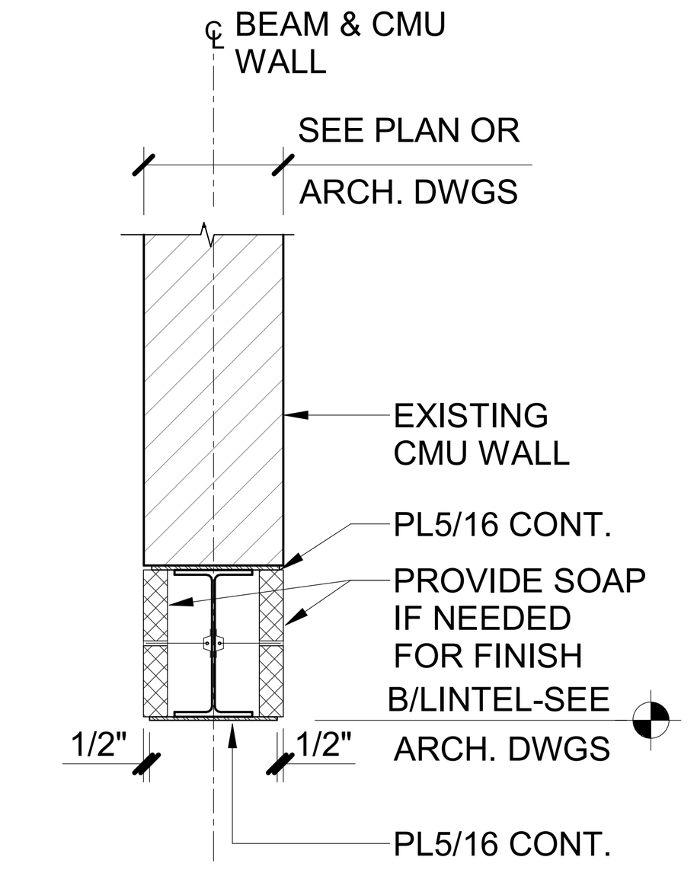
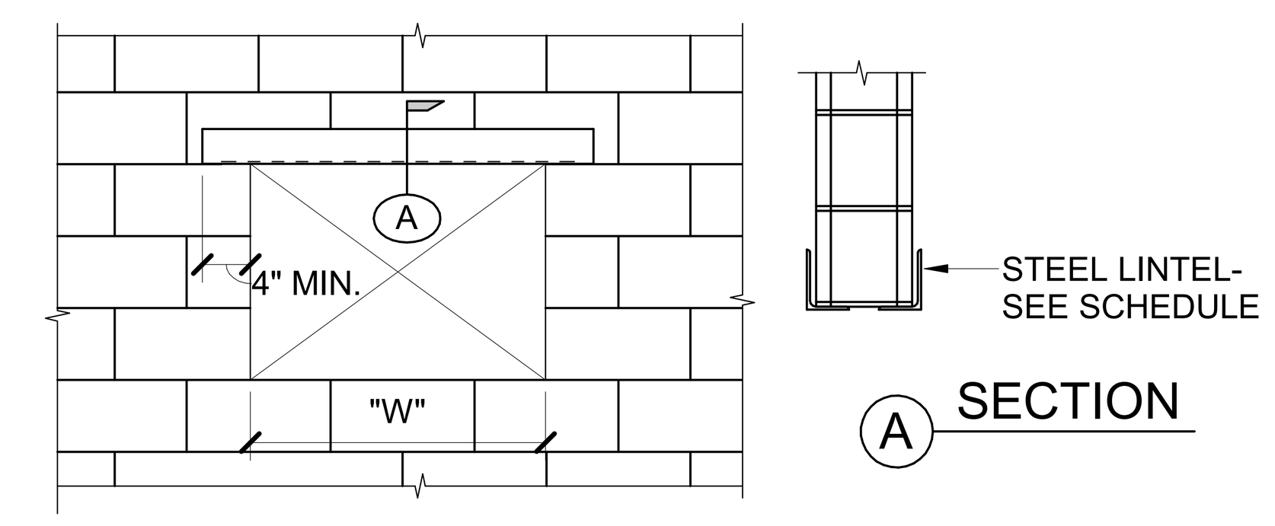
NOTE:
DETAIL IS PROVIDED FOR LINTELS INSTALLED AFTER WALL IS BUILT. COORDINATE LINTEL LOCATIONS w/ MECH / ELEC / PLUMBING OPENINGS



WIDTH OF OPENING "W"	STEEL LINTEL
TO 1'-0"	NONE
1'-1" TO 3'-4"	L5x3x5/16 (LLV) BOTH SIDES
OVER 3'-4" TO 6'-0"	USE BEAM - W8x24

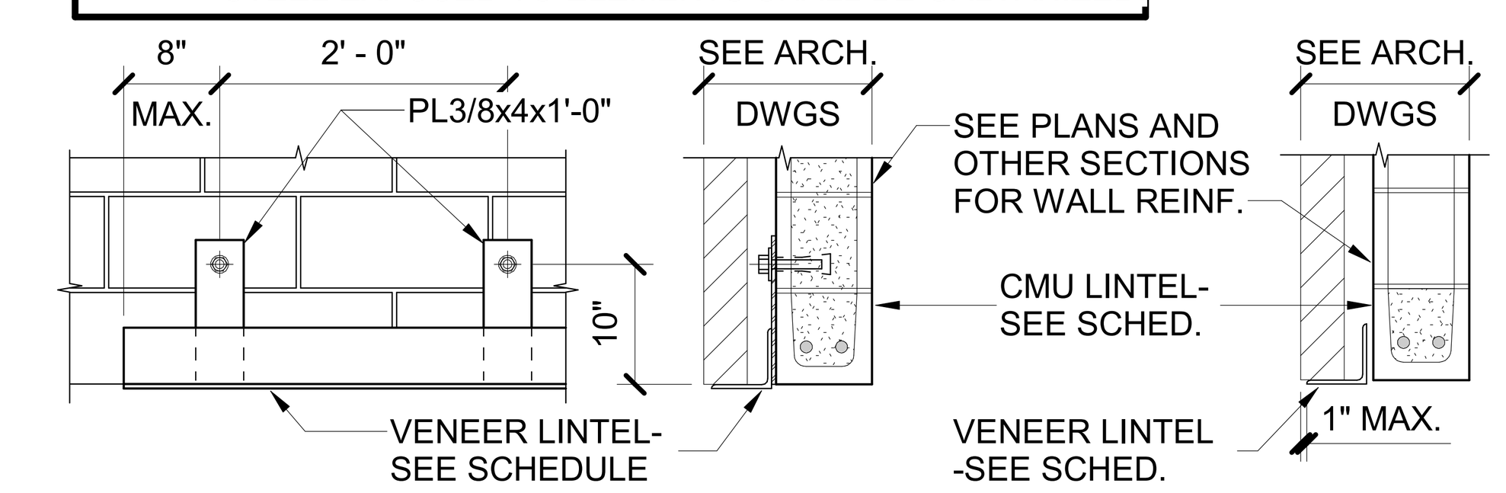
NOTE:
IF LINTEL IS EXPOSED TO VIEW, USE BEAM IN LIEU OF ANGLE.



3 TYPICAL LINTEL DETAIL FOR OPENING IN EXISTING CMU WALL

VENEER LINTEL SCHEDULE WITH CMU		
OPENING WIDTH	ANGLE SIZE	REMARKS
0'-0" TO 4'-0"	L5x3 1/2x 5/16 (LLH)	LOOSE
4'-1" TO 8'-0"	L5x5x 5/16	LOOSE
OVER 8'-0"	L7x4x 5/16	BOLTED w/ 5/8" DIA. SCREW ANCHORS @ 2'-0" (5" EMBED)

NOTE: 8" MIN. BEARING EACH END-TYP.
STEEL EXPOSED TO ELEMENTS SHALL BE GALVANIZED.



ELEVATION SECTION SECTION

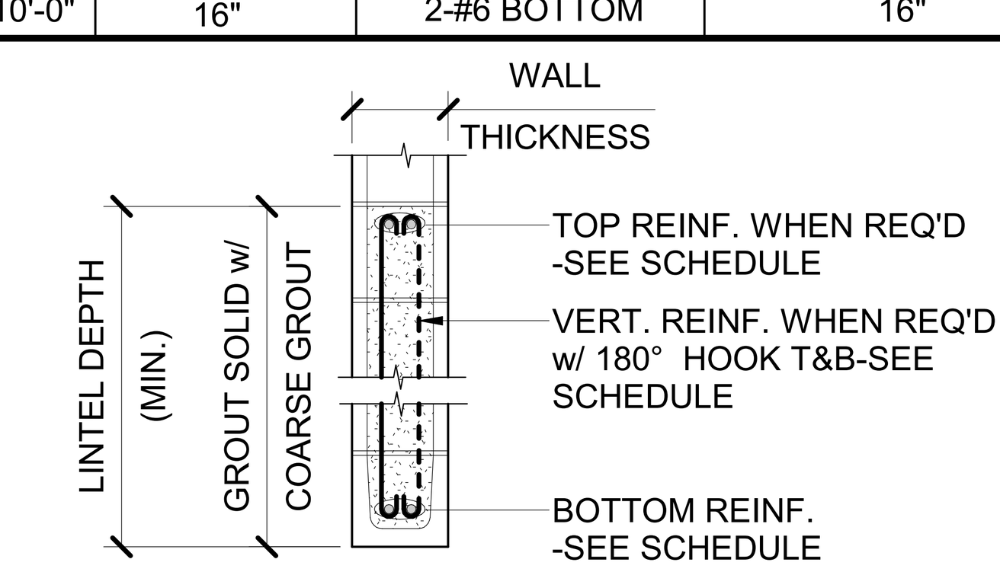
BOLTED LINTEL LOOSE LINTEL

2 VENEER LINTEL SCHEDULE WITH CMU

MARKED "LX" CMU LINTEL SCHEDULE						
MARK	WALL THICK'S	LINTEL DEPTH	REINFORCEMENT			
			BOTTOM	TOP	VERTICAL	BEARING END LENGTH
L1	8	8	2-#5	-	-	8"
L2	8	16	2-#5	-	-	8"
L3	8	24	2-#5	-	-	16"
L4	12	16	2-#5	-	-	16"
L5	12	24	2-#6	-	-	16"

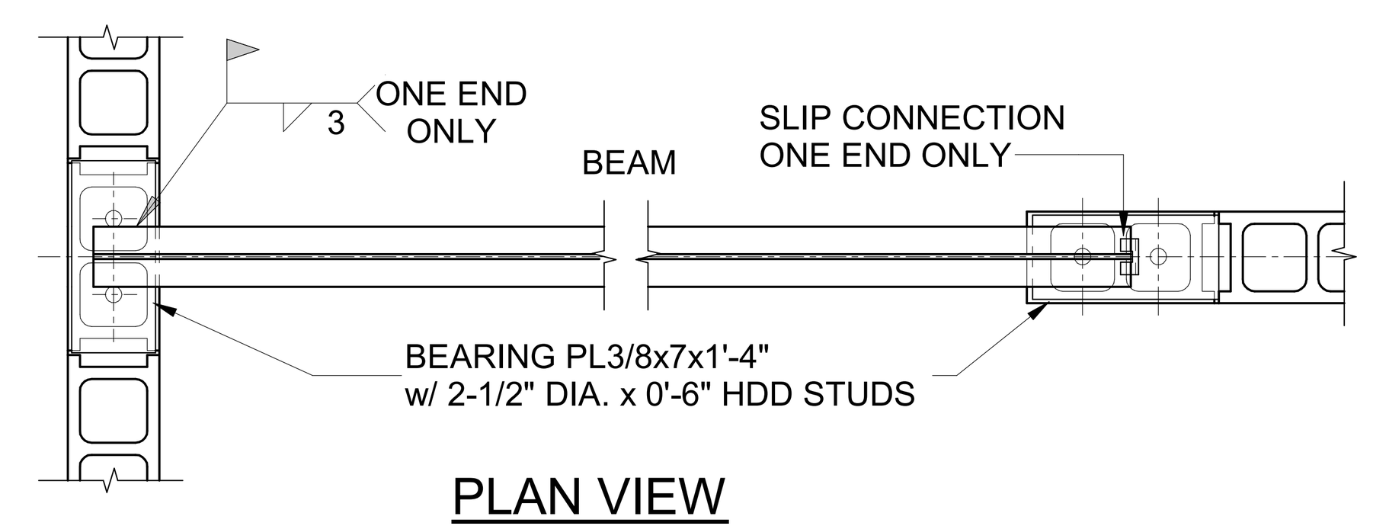
NOTE:
1. FILL CMU CORES AT LINTEL BEARING w/ 2500 psi COARSE GROUT. REINFORCE JAMBS w/ FULL HEIGHT REINFORCING PER CMU WALL OPENING DETAIL.

UNMARKED CMU LINTEL SCHEDULE			
WALL OPENING	LINTEL DEPTH	REINFORCING	BEARING END LENGTH
UP TO 4'-0"	8"	2-#4 BOTTOM	8"
4'-1" TO 6'-0"	8"	2-#5 BOTTOM	8"
6'-1" TO 8'-0"	16"	2-#5 BOTTOM	16"
8'-1" TO 10'-0"	16"	2-#6 BOTTOM	16"

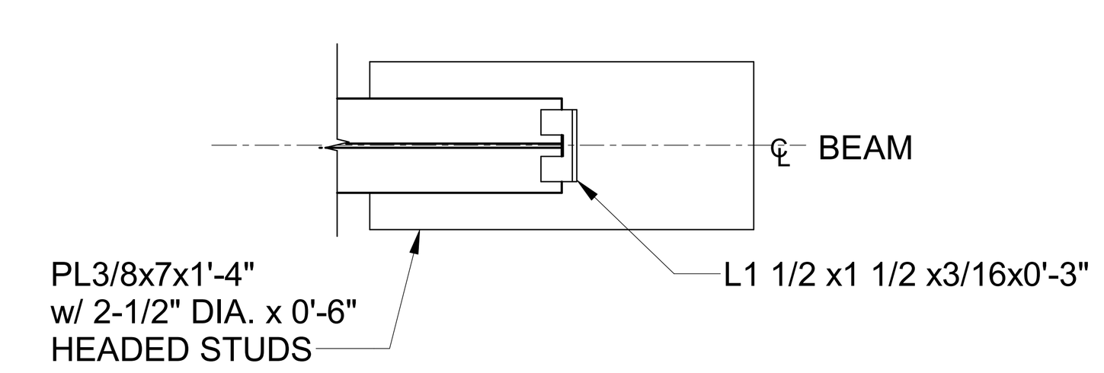


SECTION

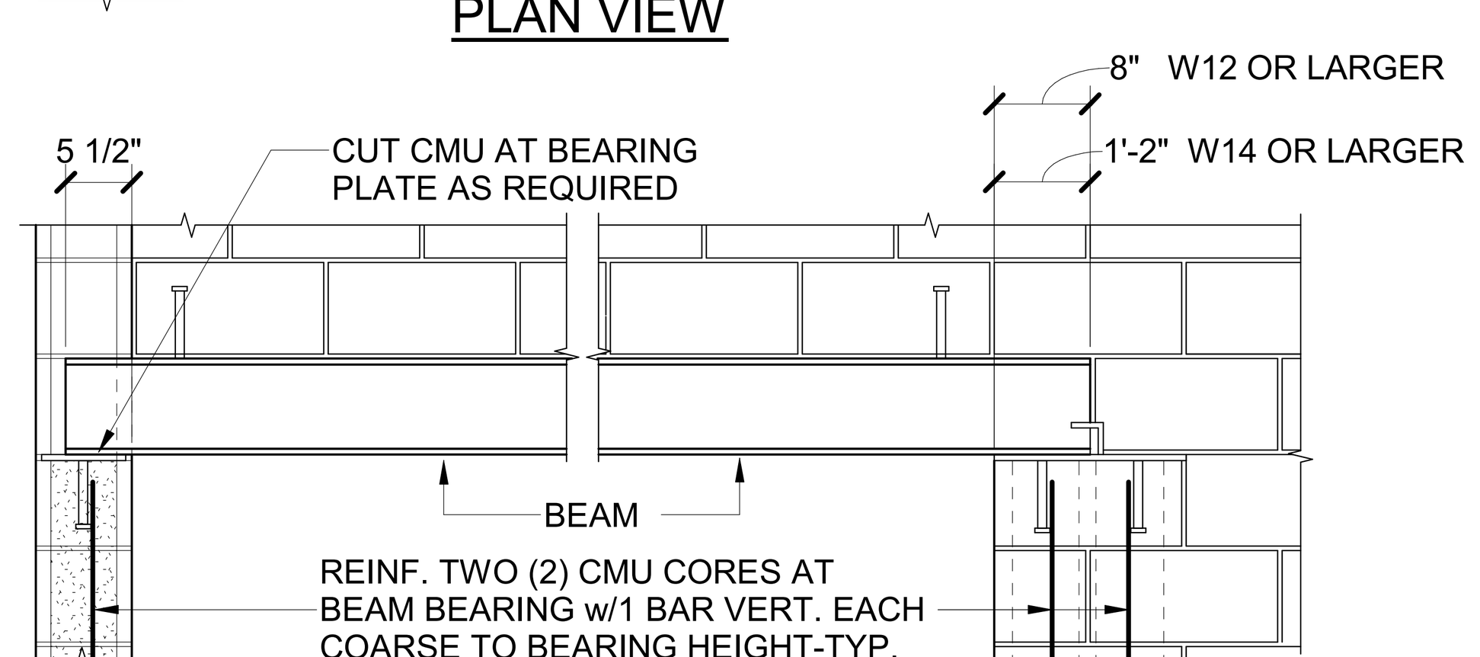
1 CMU LINTEL SCHEDULES AND DETAILS



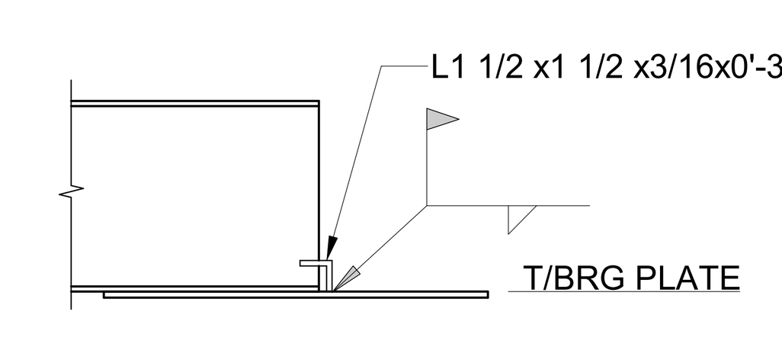
PLAN VIEW



PLAN



ELEVATION VIEW



SLIP CONNECTION DETAIL AT ONE END OF BEAM

4 TYPICAL STEEL BEAM BEARING ON CMU WALL

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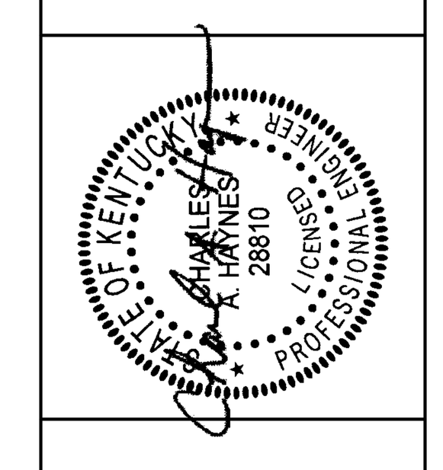

MASONRY SECTIONS AND DETAILS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
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MASONRY SECTIONS AND DETALS
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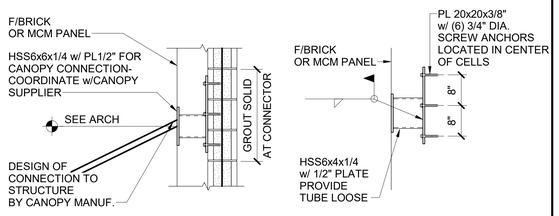
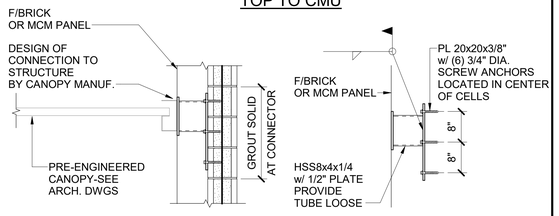
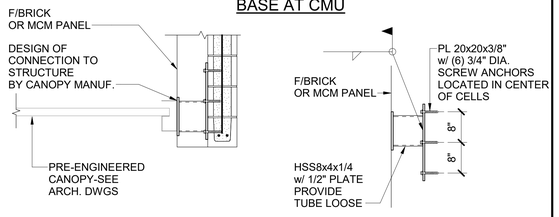
INTENT OF DETAIL IS TO LOCATE/ ADJUST PLATE TO PROVIDE ANCHORS IN CENTER OF CMU CELLS AND COORDINATE WITH BLOCK COURSING. TUBE IS TO BE PROVIDED LOOSE TO LOCATE FOR CANOPY NEEDS AND FIELD WELD TUBE TO PLATE.



TOP TO CMU



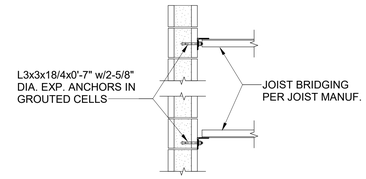
BASE AT CMU



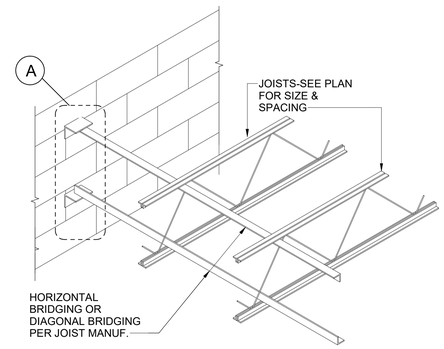
BASE AT WINDOW

3 CANOPY CONNECTION DETAILS

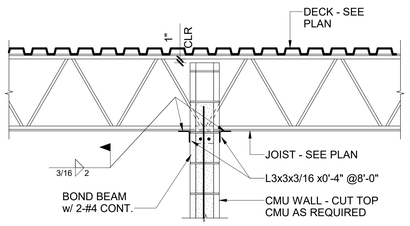
NOTE:
1. DO NOT WELD BRIDGING TO JOIST WEB MEMBERS.
2. DO NOT HANG ANY MECHANICAL, ELECTRICAL, ETC. FROM BRIDGING.



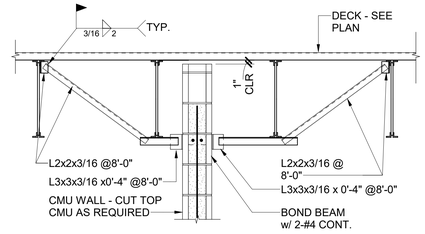
A DETAIL



2 JOIST BRIDGING DETAIL



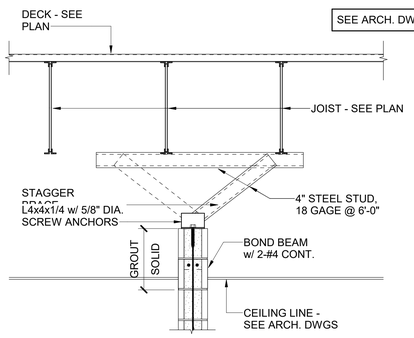
1D CMU PERPENDICULAR TO JOIST



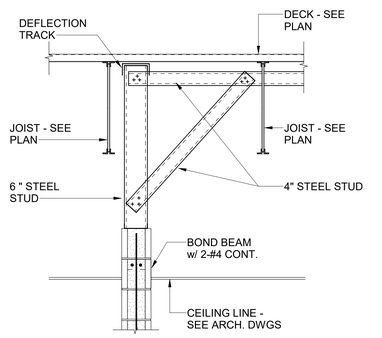
1B CMU PARALLEL TO JOIST

WALLS EXTEND TO UNDERSIDE OF DECK

SEE ARCH. DWGS FOR WALL TYPE



1C CMU PARALLEEL TO DECK



1A CMU PARALLEL TO DECK

WALLS NOT TO EXTEND TO UNDERSIDE OF DECK

NOTE:
1. REFER TO ARCH. DRAWINGS FOR HEIGHT OF WALL.
2. PROVIDE BRACING AT TOP OF ANY WALL WHEN THE LENGTH OF THE WALL BETWEEN INTERSECTING WALLS EXCEEDS 20 FEET.

1 TYPICAL CMU PARTITION BRACING DETAILS WITH STEEL JOISTS TO ROOF

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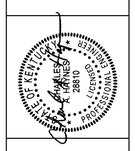
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018



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MASONRY SECTIONS AND DETAILS
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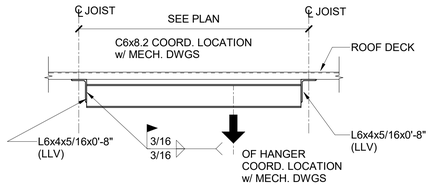
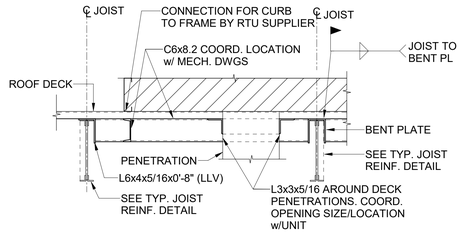
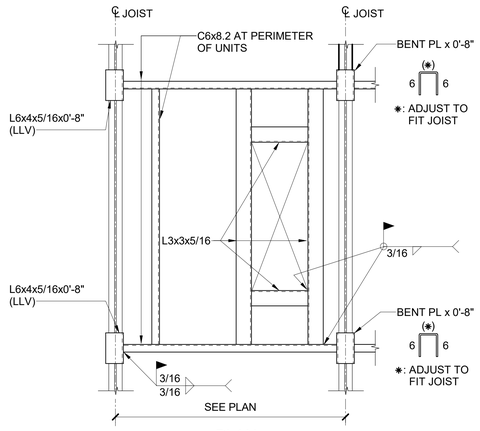


TYP. SECTION AT SUSPENDED MECHANICAL UNITS



NOTE: C6's TO BE PLACED HARD TO UNDERSIDE OF ROOF DECK

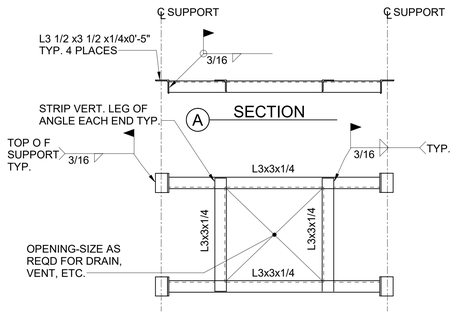
5A SECTION



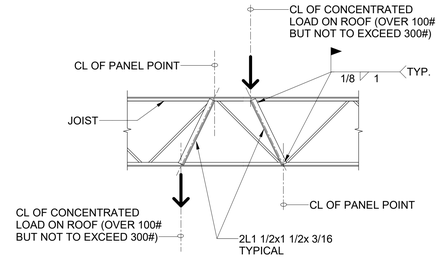
PLAN

TYPICAL DETAILS AT ROOF TOP UNITS

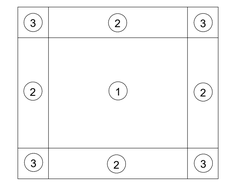
5 ROOF FRAMING DETAILS AT MECHANICAL UNITS



3 ROOF OPENING FRAME DETAIL FOR OPENINGS UP TO 14" AS NOTED



2 TYPICAL JOIST REINFORCEMENT FOR CONCENTRATED LOADS



ROOF PLAN

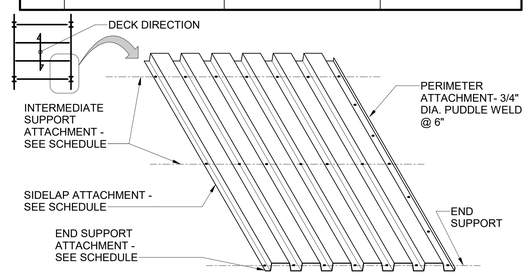
ZONE LEGEND

1. INTERIOR ZONE
2. PERIMETER ZONE
3. CORNER ZONE

NOTE:
SEE WIND PRESSURE DIAGRAMS FOR DETAILED INFORMATION ON WIND ZONE LOCATIONS

ROOF DECK ATTACHMENT SCHEDULE

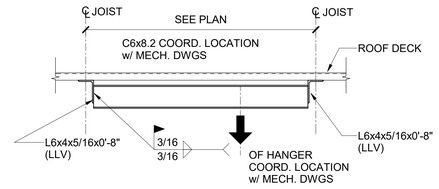
ZONE	SIDELAP	INTERMEDIATE SUPPORT	END SUPPORT
1	#10 SELF-TAPPING SCREWS @ 12"	36/4 PATTERN w/ 3/4" DIA. PUDDLE WELDS	———
2	#10 SELF-TAPPING SCREWS @ 12"	36/4 PATTERN w/ 3/4" DIA. PUDDLE WELDS	36/7 PATTERN w/ 3/4" DIA. PUDDLE WELDS
3	#10 SELF-TAPPING SCREWS @ 12"	36/7 PATTERN w/ 3/4" DIA. PUDDLE WELDS	36/7 PATTERN w/ 3/4" DIA. PUDDLE WELDS



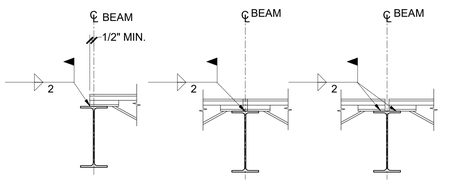
NOTE:
PROVIDE VENTED ROOF DECK COORD W/ LIGHT-WEIGHT INSULATED MANUF.

1 ROOF DECK ATTACHMENT DETAIL
1 1/2" TYPE B DECK - GALV

NOTE:
UNISTRUT OR SIMILAR MAY BE SUBSTITUTED / ENGINEERED BY OTHERS.



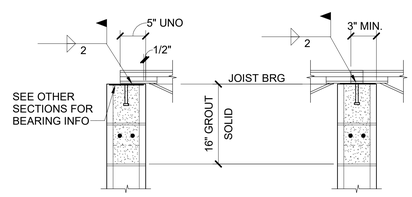
7 TYP SECTION AT SUSPENDED MECHANICAL UNITS



FLANGE WIDTH LESS THAN 5" FLANGE WIDTH GREATER THAN 5"

BEAM ONE SIDE ONLY BEAM BOTH SIDES

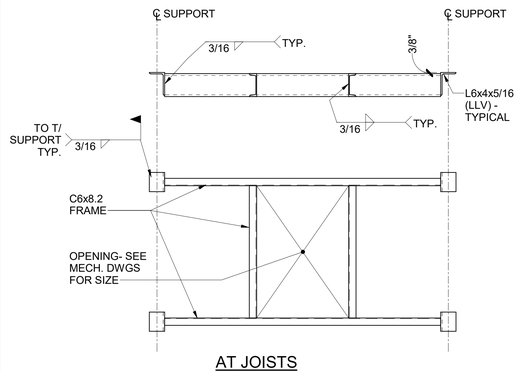
8B AT STEEL



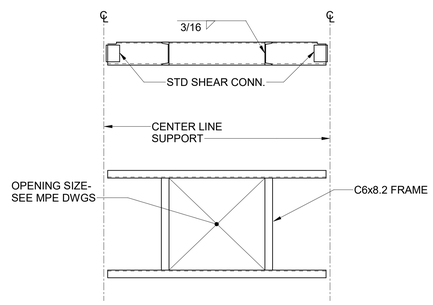
JOIST ONE SIDE ONLY JOIST BOTH SIDES

8A AT CMU

6 TYPICAL JOIST BEARING DETAILS

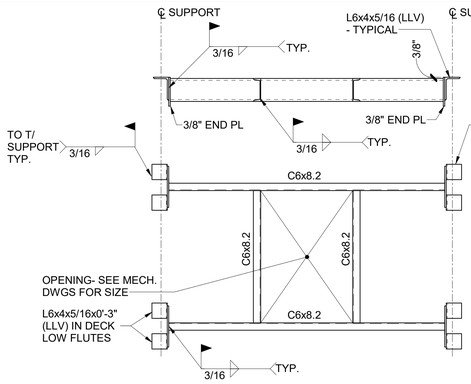


AT JOISTS



AT BEAMS

4 CHANNEL ROOF OPENING FRAME



8 ROOF OPENING IN EXISTING ROOF CHANNEL FRAME FOR OPENINGS OVER 14" AS NOTED

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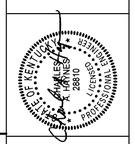

ROOF FRAMING SECTIONS AND DETAILS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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ROOF FRAMING SECTIONS AND DETAILS
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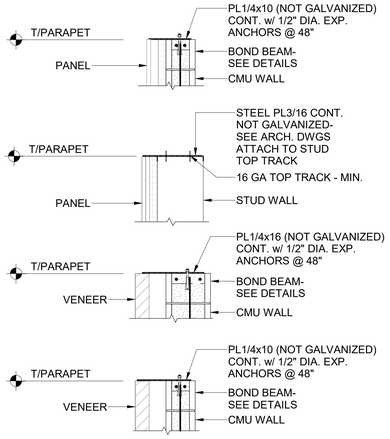
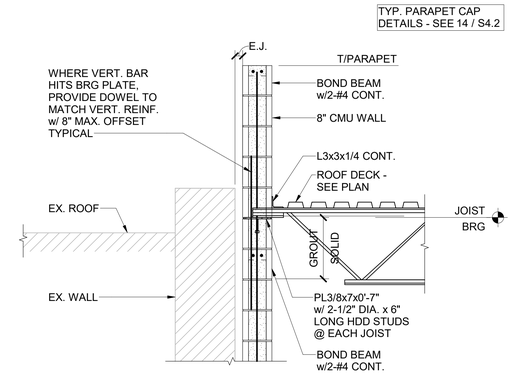


14 PARAPET DETAILS



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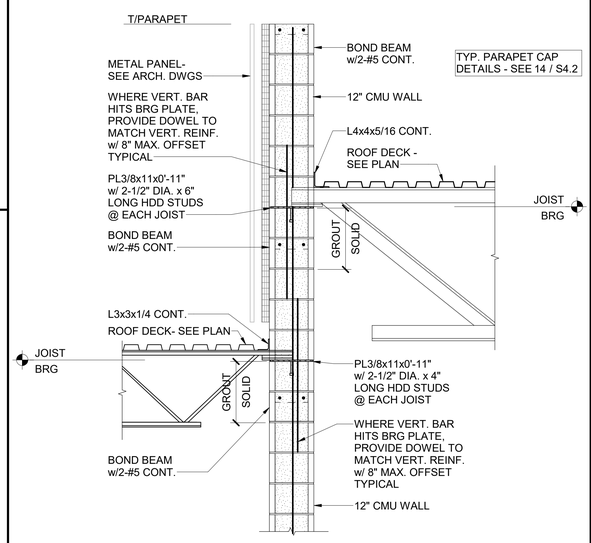

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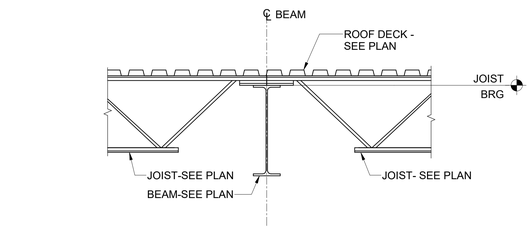

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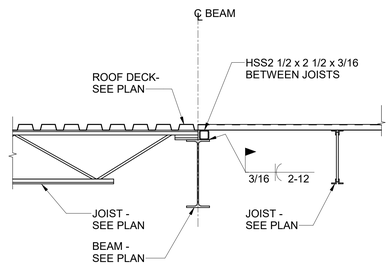

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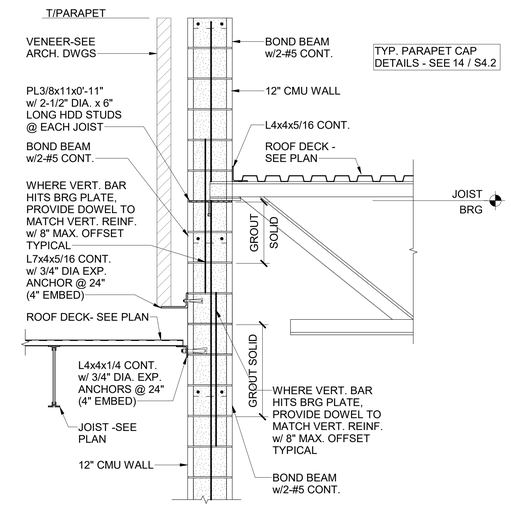

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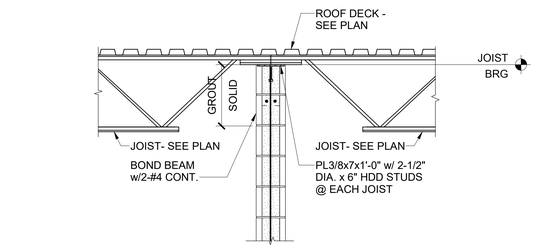
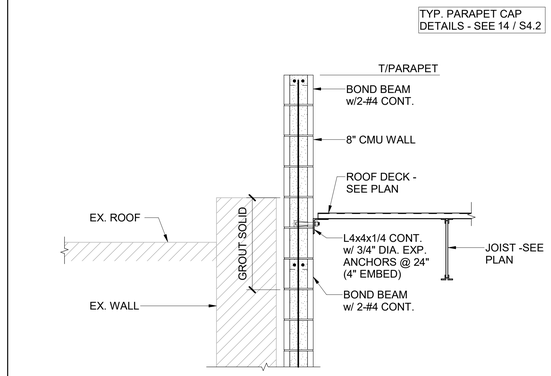


SECTION



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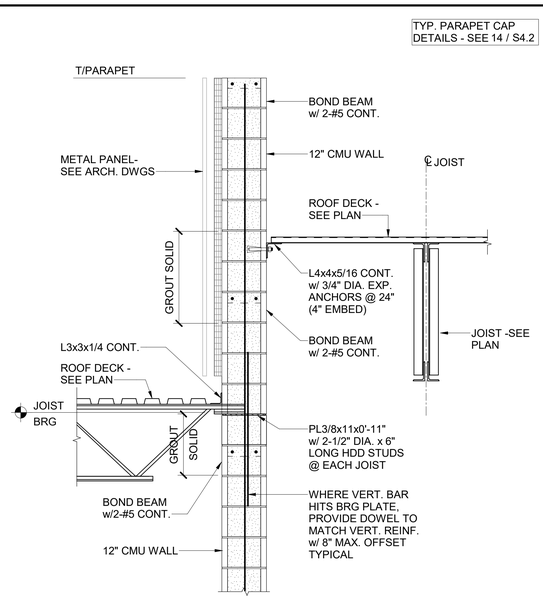

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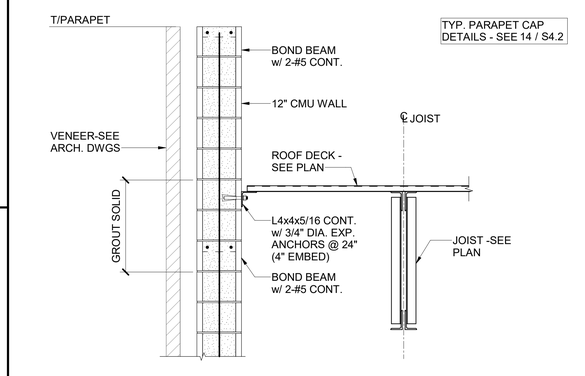

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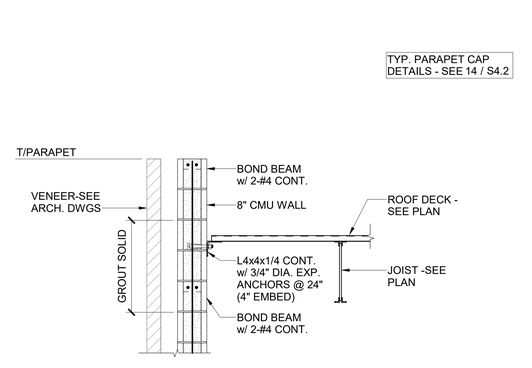

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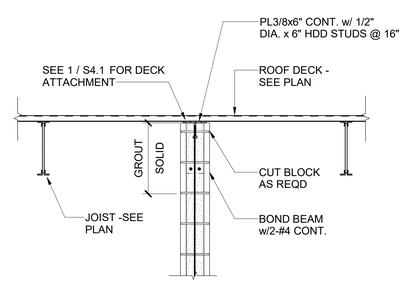
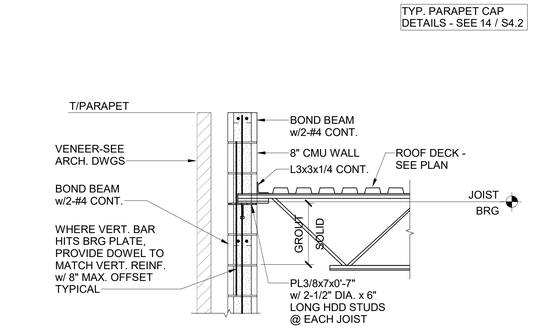


11 SECTION

5 SECTION



1 SECTION

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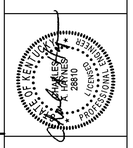

ROOF FRAMING SECTIONS AND DETAILS
FOR:
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	AO/CCA
Rev'd By:	CH/DH

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ROOF FRAMING SECTIONS AND DETAILS
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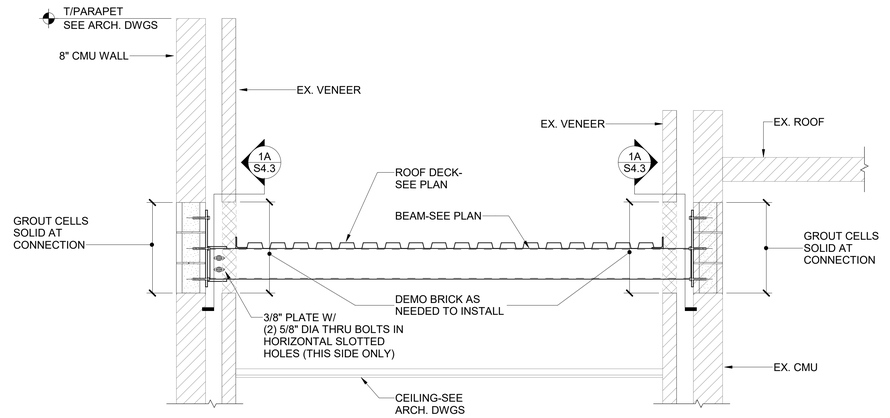

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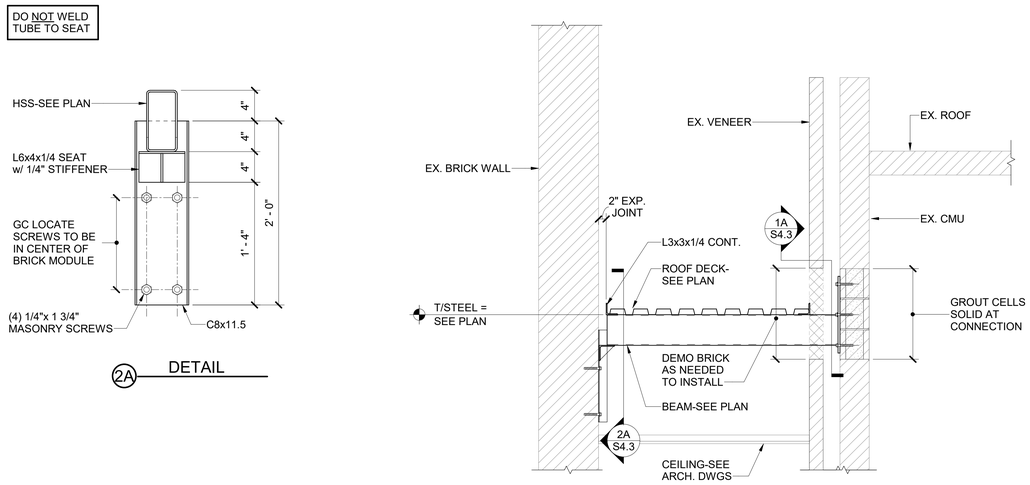
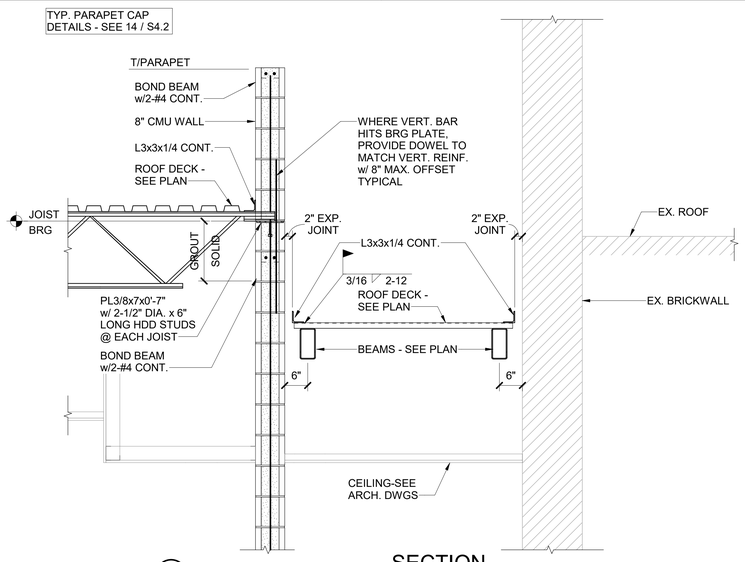


2A DETAIL

2 SECTION



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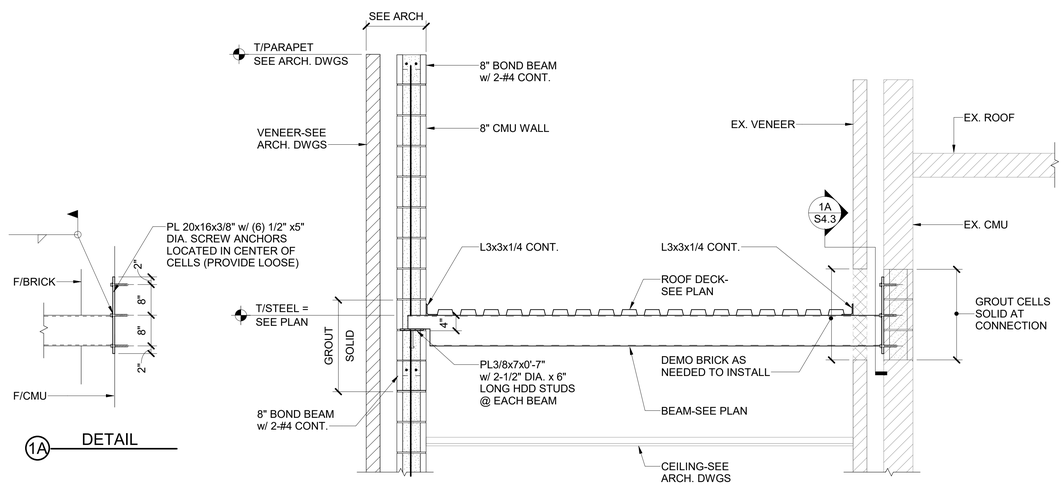

1A DETAIL

1 SECTION

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FRAMING SECTIONS AND DETAILS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
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FRAMING SECTIONS AND DETAILS
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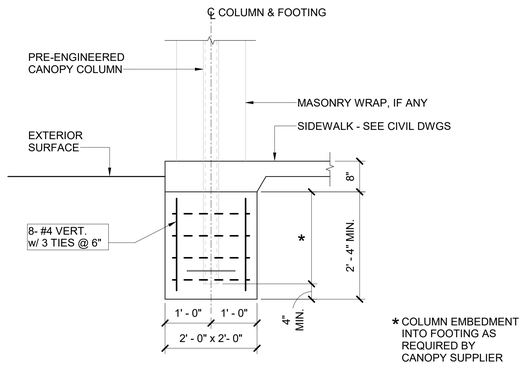
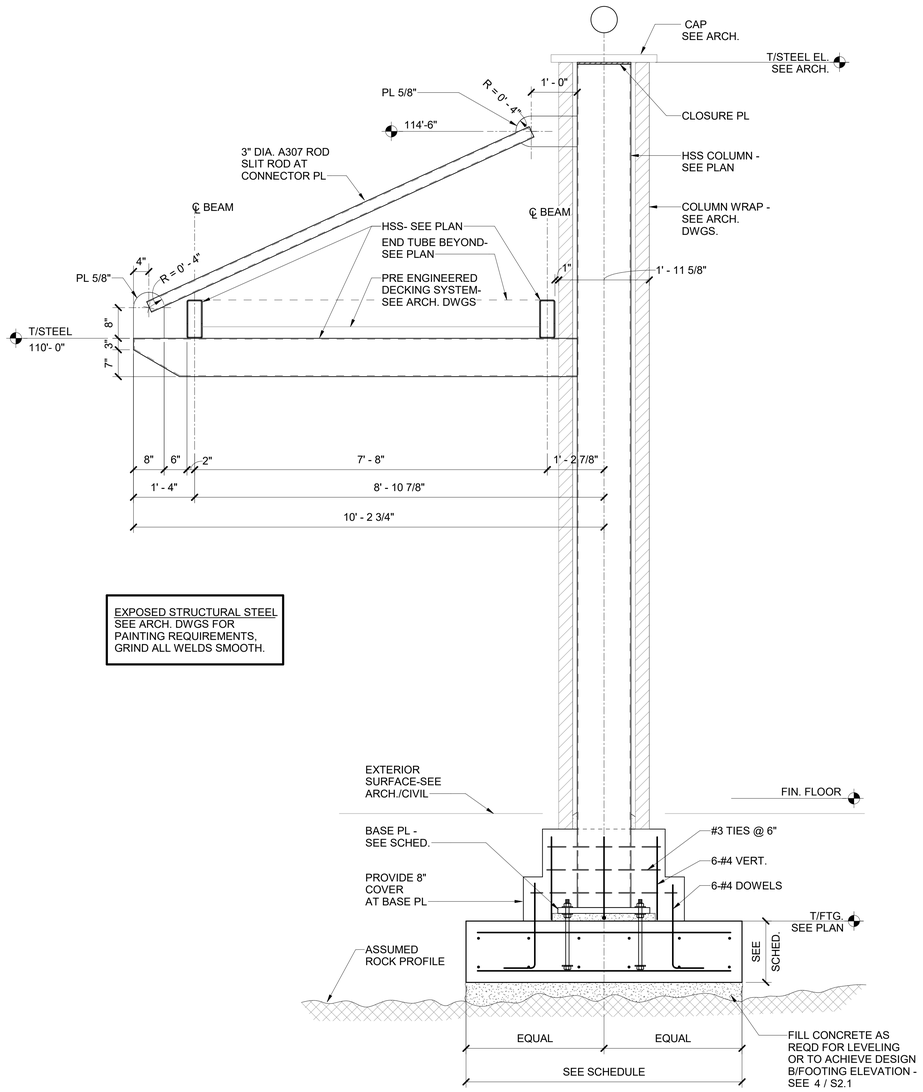
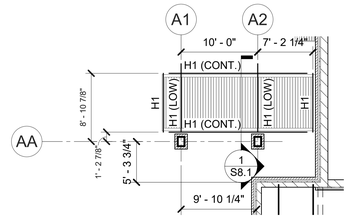
NOTE:
- REFER TO CIVIL/ ARCH. DWGS FOR NUMBER OF COLUMNS.
- FOUNDATION DETAIL SHOWN IS FOR PRICING ONLY. ACTUAL FOUNDATION DESIGN TO BE PROVIDED BY GC & THEIR SUPPLIER W/ FINAL CANOPY REACTIONS.



2 TYPICAL FOOTING AT PRE-ENGINEERD CANOPY COLUMNS

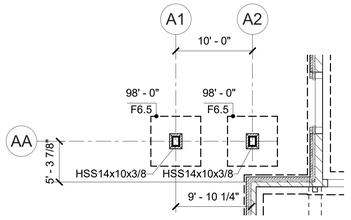


1 SECTION AT CANOPY



ALTERNATE #5 - CANOPY FRAMING PLAN

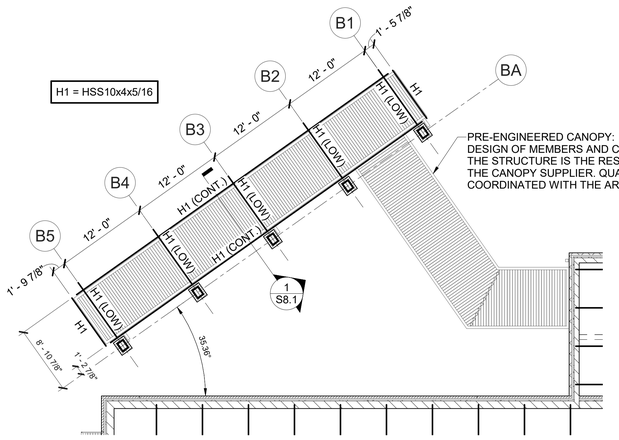
1/8" = 1'-0"



ALTERNATE #4 - CANOPY FOUNDATION PLAN

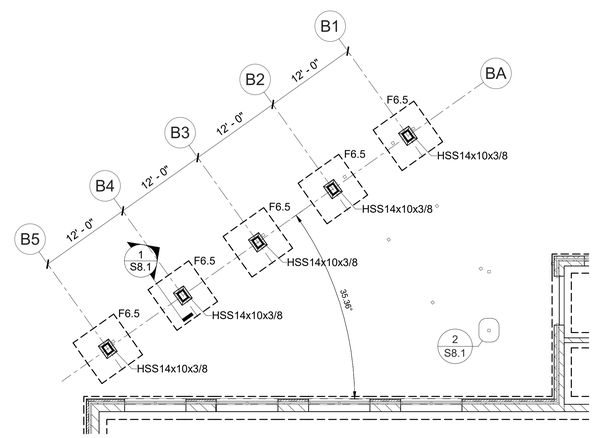
1/8" = 1'-0"

H1 = HSS10x4x5/16



ALTERNATE #5 - CANOPY FRAMING PLAN

1/8" = 1'-0"



ALTERNATE #5 - CANOPY FOUNDATION PLAN

1/8" = 1'-0"

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ALTERNATE CANOPY PLANS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

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ALTERNATE CANOPY PLANS

DATE ISSUED:
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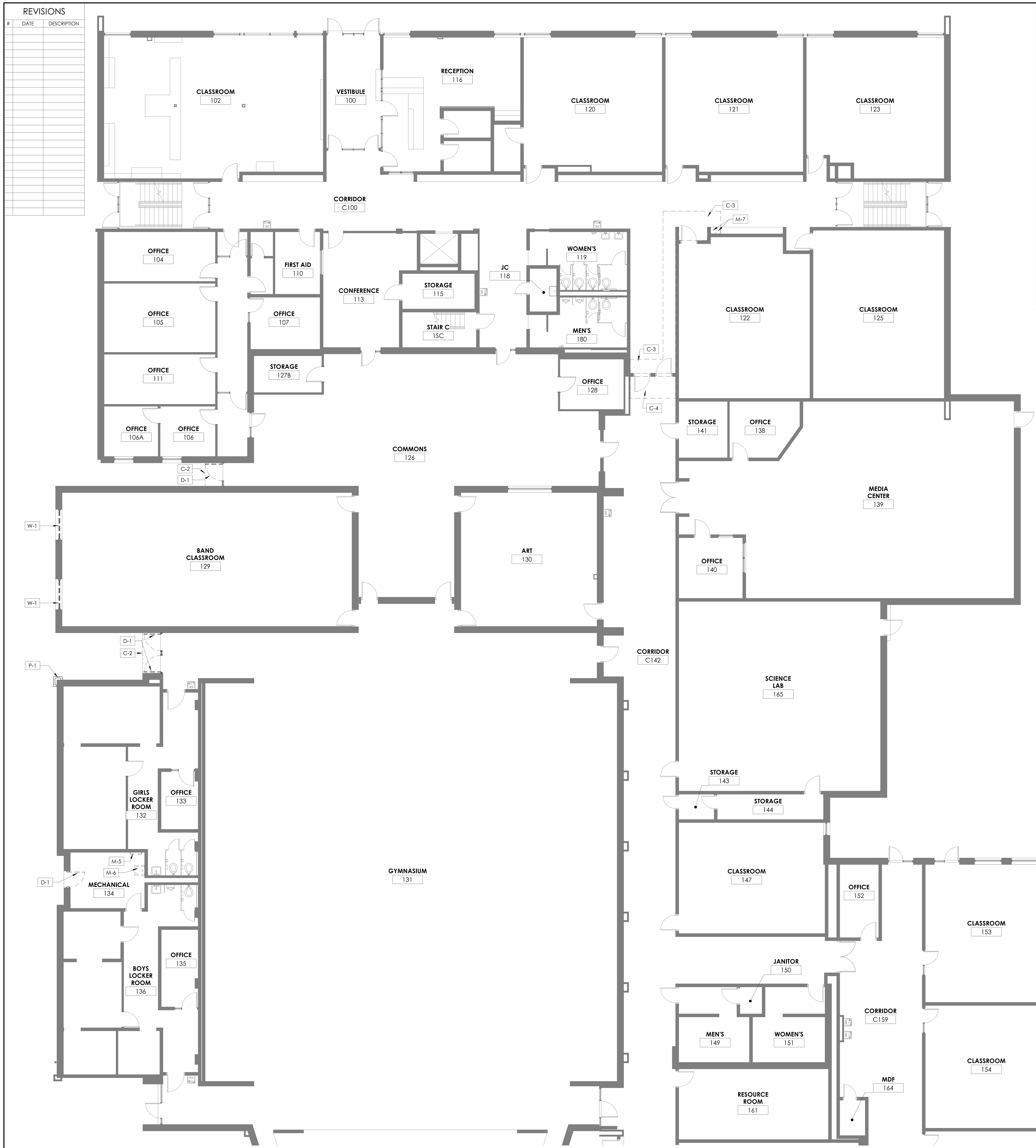
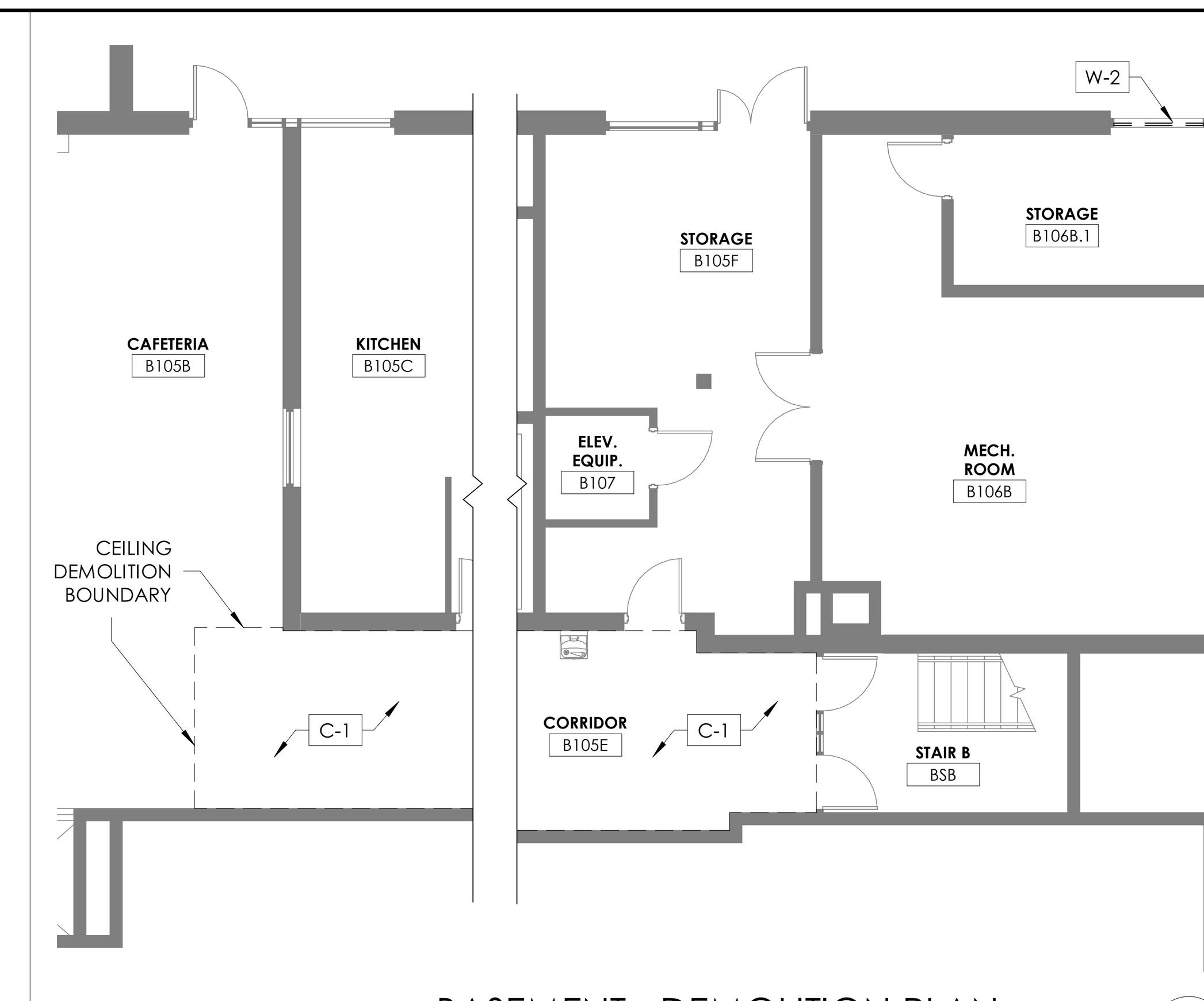
REVISIONS

#	DATE	DESCRIPTION



FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"
A
D1.1



BASEMENT - DEMOLITION PLAN
1/8" = 1'-0"
B
D1.1

GENERAL DEMOLITION NOTES

1. THESE DEMOLITION PLANS ARE MEANT TO BE A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SHOWN HERE OR NOT.
2. REFER TO SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION WORK REQUIRED IN SPECIFIC AREAS OF WORK.
3. REFER TO THE PHASING DRAWING FOR SEQUENCE OF DEMOLITION AND NEW WORK.
4. CONTRACTOR SHALL VERIFY LOAD BEARING CONDITIONS OF WALLS PRIOR TO THEIR DEMOLITION. ANY WALL FOUND TO BE LOAD BEARING WHICH IS NOT SO NOTED SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ITS DEMOLITION.
5. WHERE WALLS OR OTHER ITEMS ARE REMOVED, CLEAN AND REPAIR FLOORS TO FLUSH CONDITION SUITABLE TO RECEIVE FLOOR FINISH. WHERE MASONRY WALLS EXTEND THROUGH SLAB AND REST ON FOOTING, REMOVE BLOCK TO MINIMUM OF 4" BELOW FINISH FLOOR. FILL FLUSH WITH CONCRETE. PROVIDE MIN.4" CONCRETE FILL AT ABANDONED PIPES OR OTHER OPENINGS IN THE FLOOR SLABS WHICH ARE EXPOSED OR CREATED BY OTHER DEMOLITION. GRIND TO FLUSH AS REQUIRED.
6. ALL CONCRETE BLOCK, AND/OR BRICK VENEER INFILL OR PATCHES IN EXISTING MASONRY SHALL BE TOOTHED INTO ADJACENT SOUND MASONRY IN FULL UNITS UNLESS OTHERWISE INDICATED. PARTIAL MASONRY UNITS ADJACENT TO OPENINGS SHALL BE REMOVED AS REQUIRED TO ALLOW TOOTHING. WHERE NEW MASONRY CONSTRUCTION JOINS EXISTING MASONRY WALLS, REMOVE MASONRY UNITS AT CONNECTIONS AS NECESSARY TO PERMIT TOOTHING OF NEW CONSTRUCTION WHETHER OR NOT SUCH DEMOLITION IS SPECIFICALLY SHOWN ON DEMOLITION PLANS. OVER-DEMOLISH NEW MASONRY UNITS TO PROVIDE FINISHED OPENING. PROVIDE NEW MASONRY TIES AND HORIZONTAL JOINT REINFORCING PER SPECIFICATIONS. NEW MASONRY CONSTRUCTION SHALL PRECISELY MATCH ADJACENT EXISTING MASONRY IN COLOR, TEXTURE,PATTERN AND FINISH, UNLESS NOTED OTHER WISE.
7. ALL HVAC GRILLES, LOUVERS AND OTHER MECHANICAL/ELECTRICAL AND PLUMBING EQUIPMENT WHICH ARE ABANDONED AND/OR CALLED OUT TO BE REMOVED SHALL BE COMPLETELY REMOVED AND OPENINGS SHALL BE INFILLED WITH NEW CONSTRUCTION MATCHING EXISTING ADJACENT CONSTRUCTION. REFER TO NOTE 1 ABOVE, AND M/E DRAWINGS OF RELATED ITEMS.
8. EXISTING DOORS AND FRAMES SHOWN IN WALL TO BE DEMOLISHED SHALL BE REMOVED. PATCH AS NOTED. REMOVE ALL OTHER MATERIALS ASSOCIATED WITH DOOR THAT WILL NOT BE USED.
9. REMOVE ALL WALL MOUNTED ITEMS WHICH ARE NOT SPECIFICALLY INDICATED TO BE REMOVED BUT WHICH INTERFERE WITH , OR ARE NOT PART OF FINISHED CONSTRUCTION. OTHER SALVAGED ITEMS WHICH ARE NOT INDICATED TO BE REUSED IN THE RENOVATION OR RETURNED TO THE OWNER MAY BE SALVAGED BY THE CONTRACTOR AND REMOVED FROM THE SITE.
10. WHERE EXISTING EQUIPMENT OR CASEWORK IS REMOVED, REMOVE ALL ASSOCIATED ATTACHMENT DEVICES, ANCHORS ETC. PATCH AND REPAIR EXISTING FINISHES.
11. SEE NEW WORK PLANS FOR NEW WORK TO BE INSTALLED.

DEMOLITION NOTES

CEILING DEMOLITION NOTES:	
C-1	REMOVE EXISTING CEILING TILE & GRID IN ITS ENTIRETY.
C-2	REMOVE EXISTING GYPSUM/PLASTER/PLYWOOD CEILING/SOFFIT IN ITS ENTIRETY.
C-3	REMOVE EXISTING CEILING TILE & GRID AS NECESSARY TO INSTALL NEW ELECTRICAL. REFER TO MEP FOR ADDITIONAL INFORMATION.
C-4	REMOVE EXISTING GYPSUM/PLASTER SOFFIT AS NECESSARY TO INSTALL NEW ELECTRICAL. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
DOOR DEMOLITION NOTES:	
D-1	REMOVE EXISTING METAL FRAME, DOOR(S), AND GLAZING IN ENTIRETY. REFER TO PLANS FOR NEW WORK.
D-2	REMOVE EXISTING COILING DOOR IN ITS ENTIRETY.
D-3	REMOVE EXISTING CURTAINWALL DOOR AND HARDWARE IN ITS ENTIRETY. TURN HARDWARE OVER TO OWNER. REFER TO PLANS FOR NEW WORK.
FINISH DEMOLITION NOTES:	
F-1	REMOVE EXISTING RESILIENT FLOORING & BASE IN THEIR ENTIRETY.
F-2	REMOVE EXISTING CONTAMINANTS (INCLUDING WAX) FROM FLOOR SURFACE. FLOOR SHALL BE SCARIFIED AS REQUIRED TO PROVIDE A SUITABLE SUBSTRATE FOR NEW LEVELER AND/OR NEW VCT.
F-3	REMOVE EXISTING GLAZED COVE BASE TO ALLOW FOR NEW LEVELER AND/OR VCT TO BE INSTALLED ON FLOORS.
F-4	REMOVE EXISTING FLOOR TILE IN ITS ENTIRETY.
F-5	DEMO EXISTING CIRCULATION DESK.
F-6	DEMO VCT FOR ELECTRICAL TRENCH. REFER TO ROOM FINISH SCHEDULE FOR NEW WORK.
MISCELLANEOUS DEMOLITION:	
M-2	REMOVE EXISTING LOUVER, ABANDONED ELECTRICAL DEVICE, BACKBOX, PLATE ETC. COORDINATE WITH NEW WORK AND WITH MEP.
M-4	REMOVE METAL CHANNELS, CLEAN AND REPAIR EXISTING MASONRY, REPOINT MORTAR AS NECESSARY.
M-5	REMOVE EXISTING WALL MOUNTED LADDER IN ITS ENTIRETY.
M-6	REMOVE EXISTING UTILITY SINK IN ITS ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
M-7	REMOVE EXISTING LOCKER IN ITS ENTIRETY. TURN OVER TO OWNER.
M-8	REMOVE EXISTING CASEWORK IN ITS ENTIRETY.
M-9	REMOVE EXISTING FLOOR OUTLET AND SLEEVE IT ITS ENTIRETY. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
M-10	EXISTING CONSOLE UNIT TO BE REMOVED. REFER TO MEP.
PARTITION DEMOLITION NOTES:	
P-1	REMOVE PORTION OF EXISTING WALL. EXISTING WALL MAY BE A BEARING WALL. SHORE AND BRACE AS NECESSARY PRIOR TO DEMOLITION.
P-2	REMOVE EXISTING STOREFRONT IN ITS ENTIRETY.
P-3	REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW WORK. EXISTING WALL MAY BE A BEARING WALL. SHORE AND BRACE AS NECESSARY PRIOR TO DEMOLITION. COORD. LOCATION AND SIZE WITH NEW WORK. IN MASONRY WALL, COORD. WITH NEAREST VERTICAL MASONRY JOINT. IN FRAMING WALL, PROVIDE HEAD AND JAMB FRAMING FOR NEW DOOR FRAME.
P-4	REMOVE EXISTING COLUMN BASE. EXISTING COLUMN TO REMAIN. COORDINATE WITH NEW WORK.
WINDOW DEMOLITION NOTES:	
W-1	REMOVE EXISTING WINDOW IN ITS ENTIRETY. COORD. WITH NEW WORK.
W-2	REMOVE PORTION OF EXITING WINDOW FOR INSTALLATION OF REPLACEMENT WINDOW. COORD. WITH NEW WORK.

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DEMOLITION PLAN

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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2429 Members Way
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
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BG#

Project No: 1904
Drawn By: Author
Rev'd By: Checker

SHEET RELEASE		
1		
2		
3		
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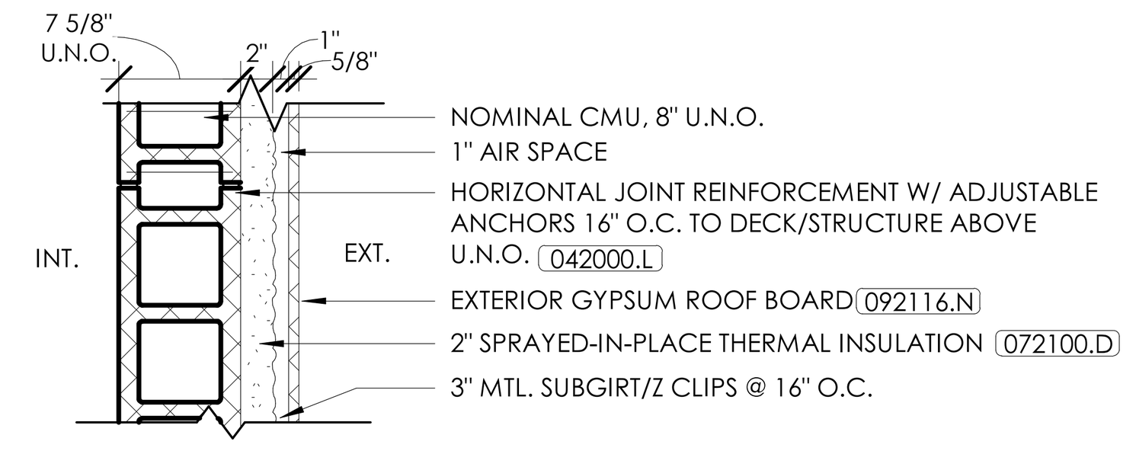
CONSTRUCTION DOCUMENTS

D1.1

DEMOLITION PLAN

DATE ISSUED:
9/13/19

REVISIONS		
#	DATE	DESCRIPTION

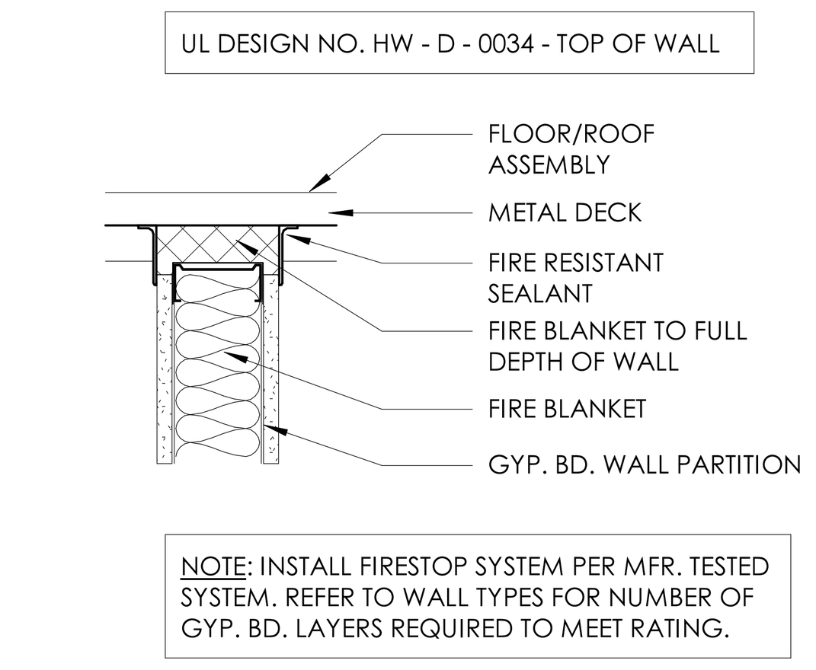


WALL C TYPE — EXT. MASONRY CAVITY WALL: EXTERIOR GYPSUM ROOF BOARD 092116.D, 3" MTL. SUBGIRT/Z CLIP, AIRSPACE, 2" SPRAYED-IN-PLACE INSULATION 072100.D, CMU, 8" U.N.O. 042000.A

12" C — SAME AS WALL TYPE "C" BUT 12" NOMINAL CMU.

EXTERIOR WALL TYPE 'C'

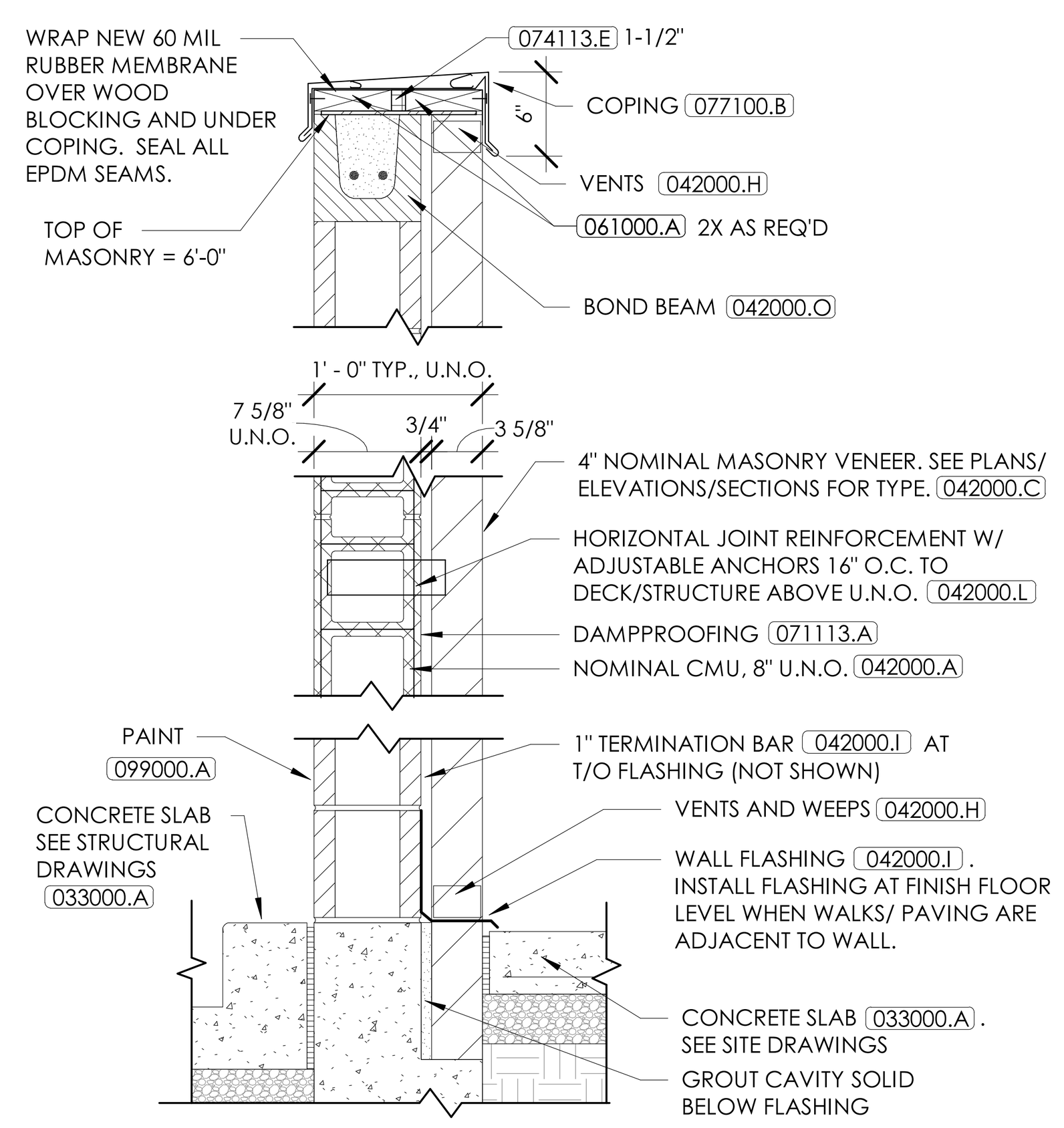
SCALE : N.T.S.



NOTE: INSTALL FIRESTOP SYSTEM PER MFR. TESTED SYSTEM. REFER TO WALL TYPES FOR NUMBER OF GYP. BD. LAYERS REQUIRED TO MEET RATING.

SMOKE PARTITION, 1HR/2HR FIRESTOP @ GWB

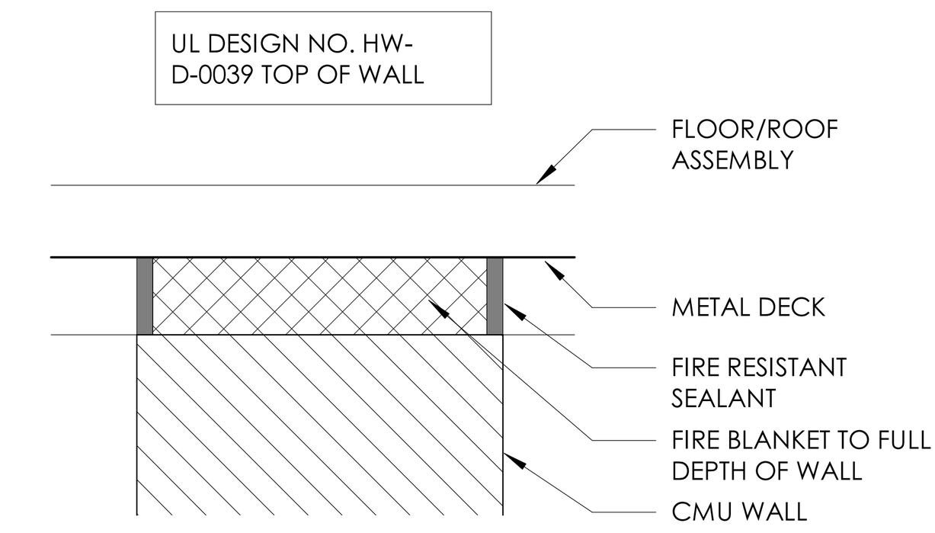
N.T.S.



WALL B TYPE — EXT. MASONRY SCREEN WALL: MASONRY VENEER, ASHLAR 042000.C, CMU, 8" U.N.O. 042000.A

EXTERIOR WALL TYPE "B"

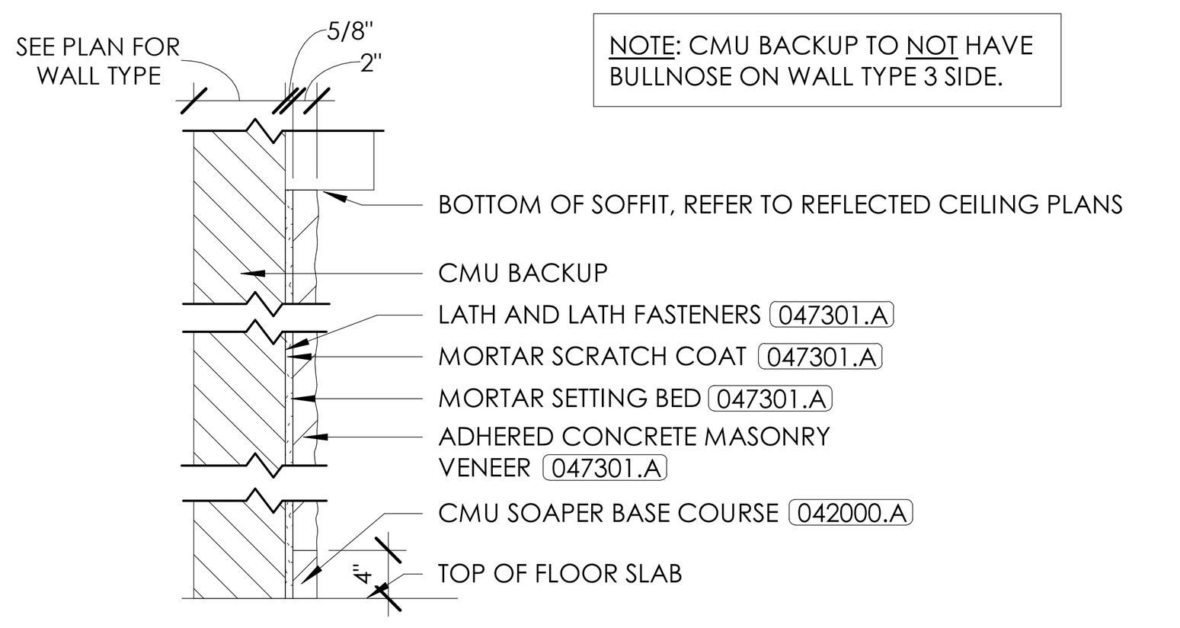
SCALE : N.T.S.



NOTE: INSTALL FIRESTOP SYSTEM PER MFR. TESTED SYSTEM.

SMOKE PARTITION, 1HR/2HR FIRESTOP @ CMU

N.T.S.

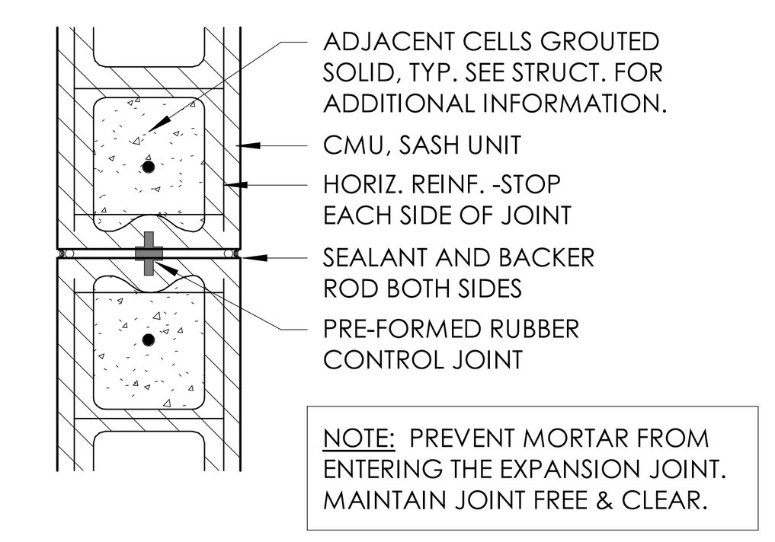


NOTE: CMU BACKUP TO NOT HAVE BULLNOSE ON WALL TYPE 3 SIDE.

WALL 3 TYPE — ADHERED CONCRETE MASONRY VENEER 047301.A, MORTAR SETTING BED, MORTAR SCRATCH COAT, LATH AND LATH FASTENERS, CMU BACKUP

INTERIOR PARTITION TYPE '3'

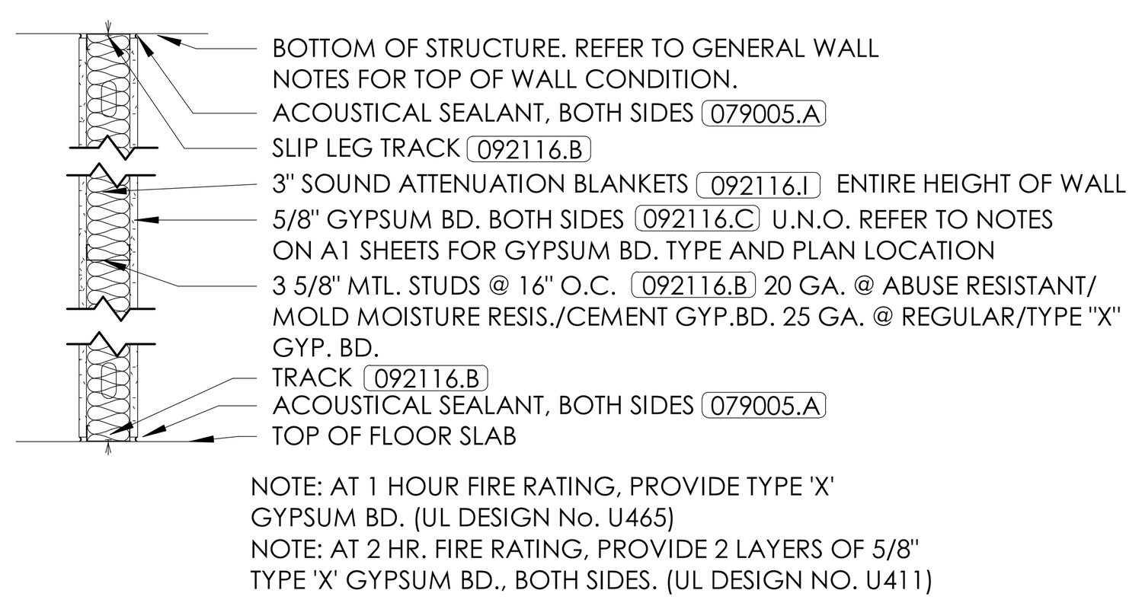
SCALE : N.T.S.



NOTE: PREVENT MORTAR FROM ENTERING THE EXPANSION JOINT. MAINTAIN JOINT FREE & CLEAR.

TYP. CMU CONTROL JOINT DETAIL

N.T.S.

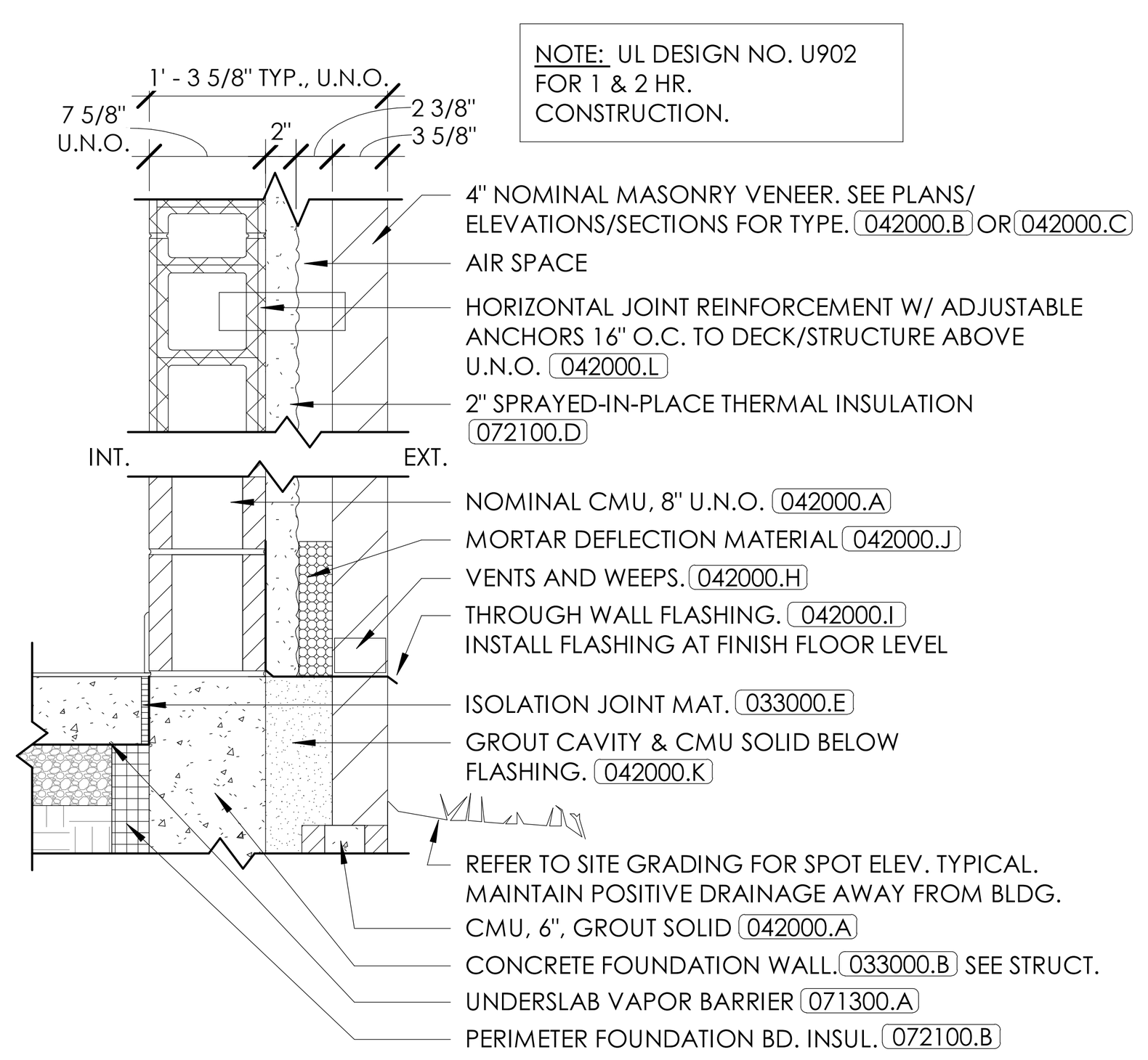


NOTE: AT 1 HOUR FIRE RATING, PROVIDE TYPE 'X' GYPSUM BD. (UL DESIGN No. U465)
NOTE: AT 2 HR. FIRE RATING, PROVIDE 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BD., BOTH SIDES. (UL DESIGN NO. U411)

- WALL 2 TYPE — 5/8" GYP. BD. 092116.B U.N.O., 3-5/8" MTL STUDS 092116.B, 3" SOUND ATTENUATION BLANKETS 092116.I, STC=49
- 6" 2 — SAME AS WALL TYPE "2" BUT WITH 6" STUDS AND 6" SOUND ATTENUATION BLANKETS 092116.I, STC=51
- 2A — SAME AS WALL TYPE "2" BUT WITH ONLY 1 SIDE OF 5/8" GYP. BD.
- 2B — SAME AS WALL TYPE "2" BUT TOP OF WALL TO EXTEND TO UNDERSIDE OF GYP. LID.
- 2C — SAME AS WALL TYPE "2A" (1 SIDE OF 5/8" GYP. BD.) BUT TOP OF WALL TO EXTEND TO UNDERSIDE OF GYP. LID.
- 2D — SAME AS WALL TYPE "2B" BUT WITH 2 LAYERS OF 5/8" GYP. BD. ON ONE SIDE AND 1 LAYER OF 5/8" GYP. BD. ON THE OTHER SIDE. STAGGER GYP. BD. JOINTS.
- 2E — SAME AS WALL TYPE "2B" BUT WITH 2 LAYERS OF 5/8" GYP. BD. ON BOTH SIDES. STAGGER GYP. BD. JOINTS.

INTERIOR GYPSUM BOARD PARTITION TYPE '2'

SCALE : N.T.S.

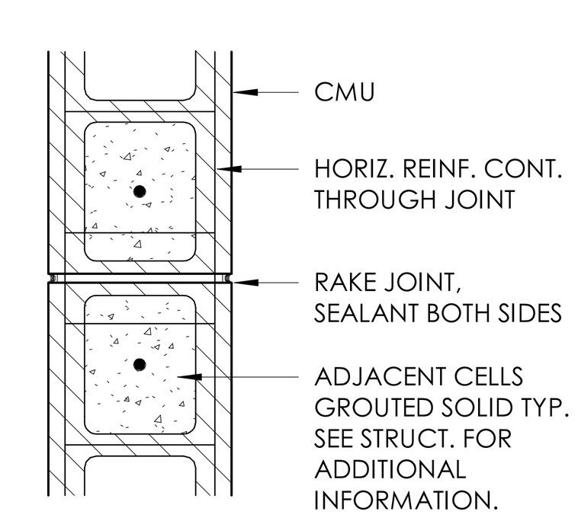


WALL A TYPE — EXT. MASONRY CAVITY WALL: MASONRY VENEER 042000.B, AIRSPACE, 2" SPRAYED-IN-PLACE INSULATION 072100.D, CMU, 8" U.N.O. 042000.A. SEAL TO DECK ABOVE WITH COMPRESSIBLE FILLER OR FIRESTOP TO MEET UL DESIGN. ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O. 099000.A

12" A — SAME AS WALL TYPE "A" BUT 12" NOMINAL CMU.

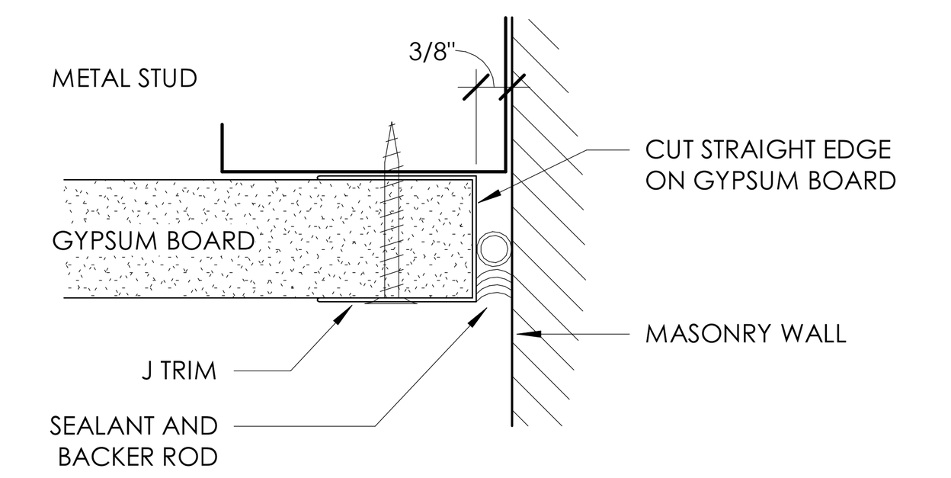
EXTERIOR WALL TYPE 'A'

SCALE : N.T.S.



TYP. CMU EXPANSION JOINT DETAIL

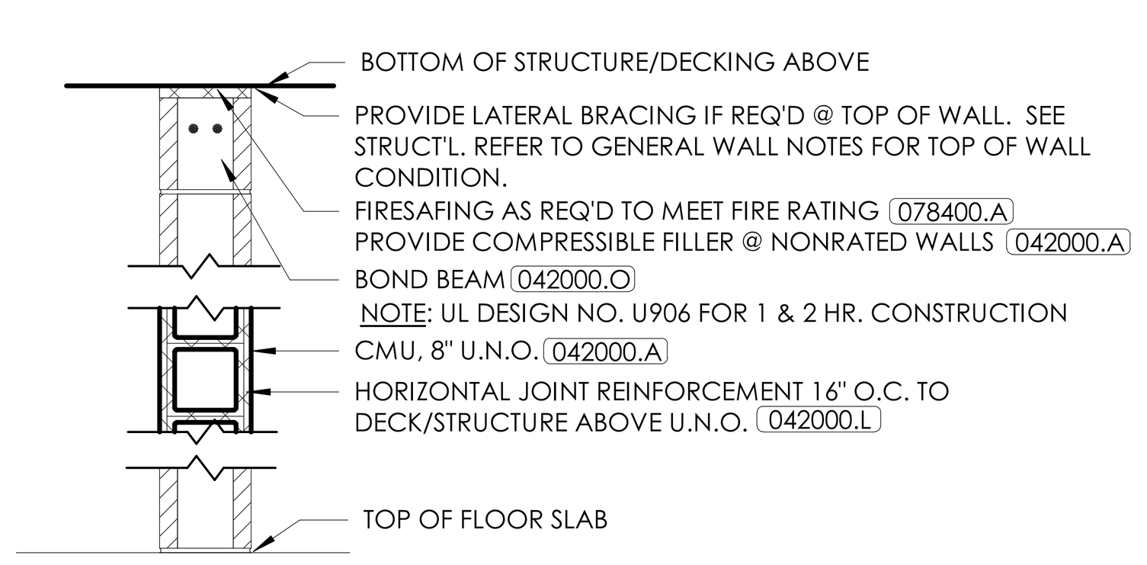
N.T.S.



TYP. REVEAL @ GWB/MASONRY INTERSECTION

N.T.S.

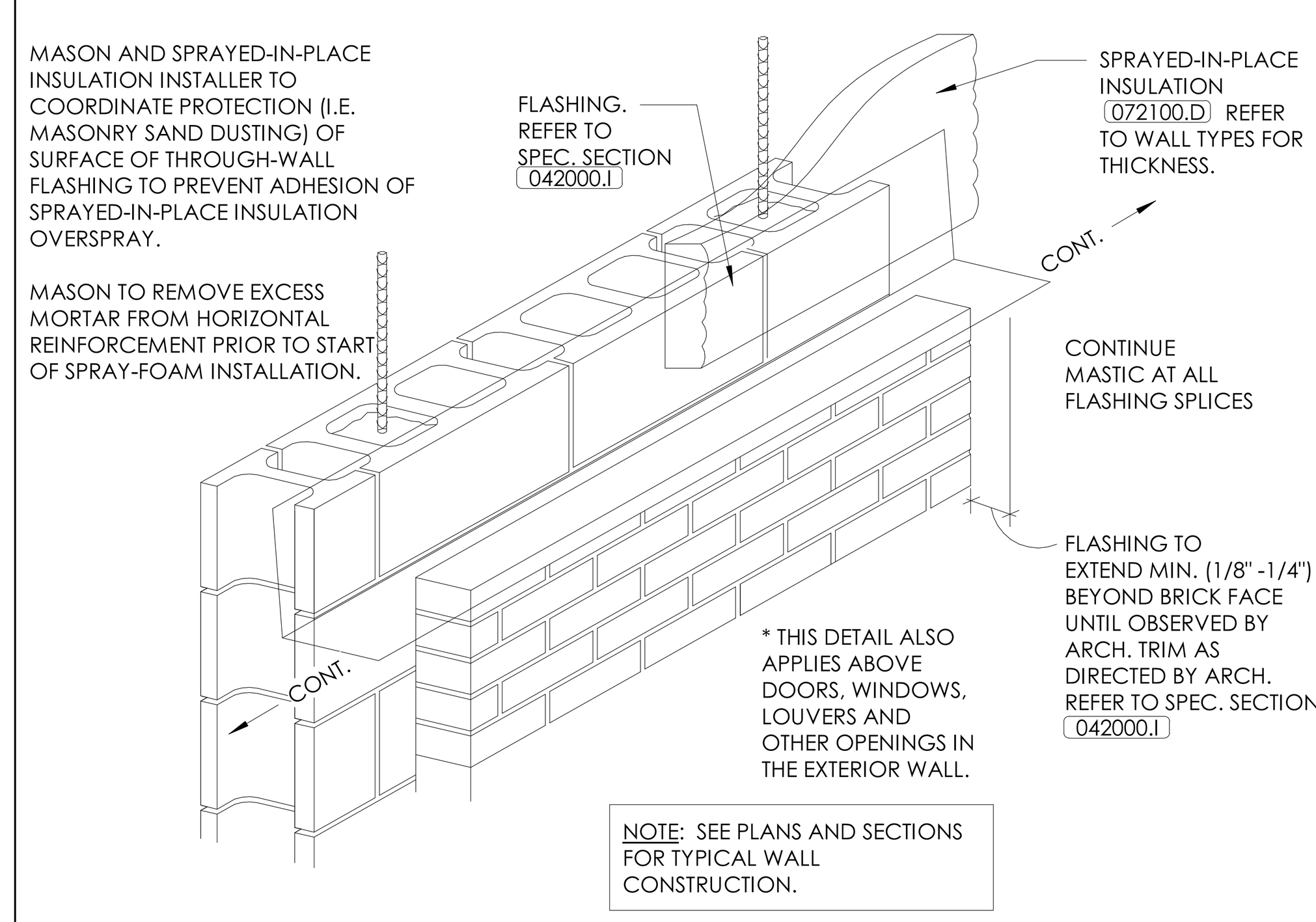
NOTE: IF JOIST OR BEAM LOCATION INTERFERES WITH NON-LOAD BEARING CMU WALL EXTENDING TO DECK ABOVE, EXTEND CMU WALL TO HEIGHT ON PLANS AND CONTINUE WALL TO DECK ABOVE WITH WALL TYPE 2, REFER TO STRUC. FOR BRACING. EXTEND AND SEAL WALL TO BOTTOM OF DECK ABOVE PER GENERAL WALL NOTES. ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O. SEE K/S4.1.



- WALL 1 TYPE — CMU PARTITION: 8" NOMINAL CMU, U.N.O. 042000.A, HORIZONTAL JOINT REINFORCEMENT 042000.L
- 4" 1 — SAME AS WALL TYPE "1" BUT 4" NOMINAL CMU.
- 6" 1 — SAME AS WALL TYPE "1" BUT 6" NOMINAL CMU.
- 12" 1 — SAME AS WALL TYPE "1" BUT 12" NOMINAL CMU.

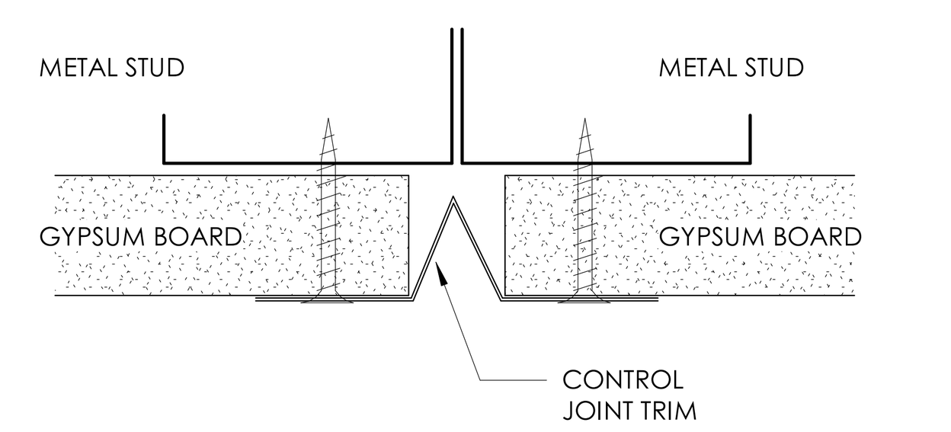
INTERIOR CMU PARTITION TYPE '1'

SCALE : N.T.S.



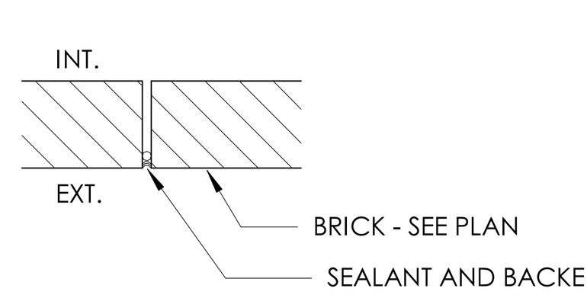
TYP. WALL FLASHING DETAIL (CMU-SPRAY-IN-PLACE)

SCALE : N.T.S.



TYP. REVEAL/EXPANSION JOINT DETAIL

N.T.S.



TYP. BRICK EXPANSION JOINT DETAIL

N.T.S.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
AL/ALUM.	ALUMINUM
ARCH.	ARCHITECT/ ARCHITECTURAL
BD.	BOARD
BIT.	BITUMINOUS
BLKG.	BLOCKING
BLDG.	BUILDING
B.O.	BOTTOM OF SOMETHING
BRG.	BEARING
C.J.	CONTRACTION/ CONSTRUCTION JOINT
CL.	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL.	DOUBLE
DIA.	DIAMETER
DS.	DOWNSPOUT
DWG.	DRAWING
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
EQ.	EQUAL
EQUIP.	EQUIPMENT
ELEV.	ELEVATOR
E.O.S.	EDGE OF SLAB
E.R.D.	EMERGENCY ROOF DRAIN OVERFLOW
E.T.R.	EXISTING TO REMAIN
EXP.	EXPANSION
EXT.	EXTERIOR
FAB.	FABRICATE/ FABRICATION
FDN.	FOUNDATION
F.F.E.	FINISH FLOOR ELEVATION
F.G.E.	FINISH GRADE ELEVATION
FIN.	FINISH
FLR.	FLOOR/ FLOORING
F.RT.	FIRE RETARDENT
FT.	FEET
F.V.	FIELD VERIFY
GA.	GUAGE
GALV.	GALVANIZED
GYP.	GYPSUM
HORZ.	HORIZONTAL
HT.	HEIGHT
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
LAM.	LAMINATE
MAS.	MASONRY
M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING
MFR.	MANUFACTURER
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEM.	MEMBRANE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.H.	OVERHEAD
OPP.	OPPOSITE
ORN.	ORNAMENTAL
PEN.	PENETRATION
PL.	PLATE
POLYISO.	POLYISOCYANURATE
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
RAD.	RADIUS
R.D.	ROOF DRAIN
REINF.	REINFORCEMENT
RQD.	REQUIRED
REV.	REVISION/ REVISED
SECT.	SECTION
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
S.S.	STAINLESS STEEL
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURE/ STRUCTURAL
SYM.	SYMMETRICAL
SYS.	SYSTEM
T.O.	TOP OF SOMETHING
THK.	THICK
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
W.P.	WORK POINT
WT.	WEIGHT

SYMBOLS LEGEND:

- BUILDING SECTION
- SECTION CUT / DETAIL MARKER
- DETAIL / ELEVATION
- DRAWING #
- DETAIL / REFERENCE DETAIL / DRAWING #
- SPOT ELEVATION
- ROOF TYPES
- WALL TYPES, X" DENOTES SIZE OF CMU OR STUD.
- 0000 — DOOR NUMBER
- 00 — HOLLOW METAL WINDOW & DOOR FRAME TYPE
- 00 — ALUMINUM WINDOW & STOREFRONT FRAME TYPE
- 00 — DOOR ELEVATION TYPES
- FE-1 — WALL MOUNTED FIRE EXTINGUISHER (104400)
- FE-2 — SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER (104400)

FIRE BARRIER TYPES:

- SP — SMOKE TIGHT PARTITION: EXTEND PARTITION WALL TO DECK ABOVE, SEAL PERIMETER TO PROVIDE "SMOKE TIGHT INSTALLATION". SEAL ALL PENETRATIONS
- 1HR — 1 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.
- 2HR — 2 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.

GENERAL PLAN NOTES

1. (NIC)-NOT IN CONTRACT. PROVIDED BY OWNER AND INSTALLED BY OTHERS.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE.
3. ALL DIMENSIONS ARE TO FACE OF STUDS, MASONRY OR TO CENTERLINE OF STRUCT'L STEEL UNLESS OTHERWISE NOTED. CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING DIMENSIONS.
4. MASONRY DIMENSIONS ARE ACTUAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR FACE OF VENEER.
5. REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" PLANS.
6. ALL EXTERIOR WALLS ARE WALL TYPE 'A' UNLESS INDICATED OTHERWISE.
7. ALL INTERIOR PARTITIONS ARE WALL TYPE '1' UNLESS INDICATED OTHERWISE.
8. PROVIDE BULLNOSE UNITS AT ALL VERTICAL OUTSIDE CONCRETE BLOCK CORNERS UNLESS OTHERWISE NOTED.
9. PARTITION TYPES SHALL MAINTAIN THEIR CONSTRUCTION AND RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC., AND PLUMBING PENETRATIONS SHALL BE SEALED / SAFED / DAMPERED AS REQ'D TO COMPLY WITH APPLICABLE CODES.
10. REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZES, LOCATIONS, CONNECTIONS, REINFORCEMENT AND OTHER REQ. PERTAINING TO STRUCTURAL COMPONENTS INDICATED.
11. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED.
12. VERIFY REQ'D DEPTH OF ALL RECESSED SLABS w/ APPROPRIATE FINISH FLOORING MANUFACTURER PRIOR TO PLACEMENT OF SLAB.
13. MASONRY OPENINGS IN CMU WALLS FOR DOORS ARE TYPICALLY LOCATED 8" FROM THE JAMB OPENING TO THE ADJACENT WALL UNLESS NOTED OTHERWISE.
14. DOORS IN GYPSUM BOARD WALLS ARE TYPICALLY LOCATED 6" FROM THE DOOR JAMB OPENING TO THE ADJACENT WALL UNLESS NOTED OTHERWISE.
15. WHERE DOORS HAVE 180 DEGREE SWING IN CMU WALL, PROVIDE 3/4" SET BACK FROM FACE OF WALL OF SWING SIDE. COORDINATE WITH MASON.

GENERAL WALL NOTES

1. REFER TO FLOOR PLANS FOR LOCATION OF PARTITION AND WALL TYPES DESCRIBED ON THIS DRAWING.
2. REFER T0 STRUCTURAL DRAWINGS FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY.
3. CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHERTIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR TO OCCUR WHERE THROUGH-WALL FLASHING IS INDICATED OR REQUIRED. A) KEEP ALL DRAINAGE CAVITIES IN CAVITY WALLS FREE OF MORTAR. B) PAN-UP THROUGH-WALL FLASHING AT BACK EDGES AND ENDS MINIMUM 6 INCHES. EXTEND THROUGH-WALL FLASHING TO THE FACE OF MASONRY VENEER FOR OBSERVATION BY THE ARCHITECT. C) AT MASONRY WALLS, PROVIDE WEEPS AND CAVITY VENTS AT 24" O.C HORIZONTALLY, ALTERNATE LOCATIONS OF WEEPS WITH CAVITY VENTS. DO NOT ALLOW WEEPS OR CAVITY VENTS TO BECOME CLOSED OFF. D) REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PLACEMENT AND INSTALLATION OF THROUGH-WALL FLASHING, WEEPS AND CAVITY VENTS.
4. AT MASONRY VENEER/METAL STUD WALL ASSEMBLIES AND MASONRY VENEER/CMU WALLS PROVIDE THROUGH-WALL FLASHING WITH WEEPS AND CAVITY VENTS AT 24" O.C. - ALTERNATING LOCATIONS. ADHESIVE INSTALL THROUGH-WALL FLASHING ON SHEATHING ON STUDS, OR CMU, UPWARD MIN. 6" AND PAN-UP THROUGH-WALL FLASHING AT ENDS MINIMUM 6". DO NOT MECHANICALLY FASTEN, PENETRATE, OR PUNCTURE THROUGH-WALL FLASHING. THROUGH-WALL FLASHING TO DIRECT ALL MOISTURE TO EXTERIOR FACE OF WALL. KEEP ALL DRAINAGE CAVITIES FREE OF MORTAR.
5. UNLESS NOTED OTHERWISE, ALL EXTERIOR AND INTERIOR MASONRY AND/OR MTL. STUD WALLS SHALL EXTEND FULL HEIGHT TO BOTTOM OF DECK AND BE SEALED. REFER TO REFLECTED CEILING PLAN. PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF EXTERIOR AND INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS. A) FULL HEIGHT, NON-RATED MTL STUD/GYP PARTITION RUNNING PERPENDICULAR TO METAL DECK FLUTE/STRUCTURE: COPE GYP TO WITHIN 1/2" OF METAL DECK FLUTE. FILL METAL DECK FLUTE VOID COMPLETELY WITH SOUND ATTENUATION BLANKET MATERIAL, INSTALL CONTINUOUS ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER. B) FULL HEIGHT, NON-RATED METAL STUD/GYP PARTITION RUNNING PARALLEL TO METAL DECK FLUTES/STRUCTURE: STOP GYP TO WITHIN 1/2" OF METAL DECK, INSTALL CONTINUOUS ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER. C) FULL HEIGHT, NON-RATED CMU WALL RUNNING PERPENDICULAR OR PARALLEL TO METAL DECK FLUTES/STRUCTURE: LAY CMU TO WITHIN 1" OF METAL DECK. FILL METAL DECK FLUTE VOID COMPLETELY WITH CUT TO FIT COMPRESSIBLE NEOPRENE FILLER OR SOUND ATTENUATION BLANKET MATERIAL AND CONTINUOUS ACOUSTICAL SEALANT BOTH SIDES. D) FIRE RATED FULL HEIGHT WALLS: FILL ALL VOIDS, AT METAL DECK/ STRUCTURE ABOVE, WITH FIRE BLANKETS AND INTUMESCENT SEALANT PER SECTION 078400. REFER TO DETAILS ON THIS SHEET. E) CMU & GYP. BD. COLUMN SURROUNDS MAY BE STOPPED 12" ABOVE CEILING UNLESS PART OF A FIRE OR SOUND RATED WALL CONSTRUCTION.
6. PROVIDE CAULKED CONTROL JOINTS WHERE LOAD BEARING CMU ABUTS NON-LOAD BEARING CMU OR WHERE WALLS OF DIFFERENT HEIGHTS ABUT.

MATERIALS LEGEND:

- CONCRETE
- FINISHED WOOD
- CONCRETE MASONRY UNIT
- PLYWOOD
- CLAY MASONRY UNIT
- WOOD BLOCKING
- SPLIT-FACE CONCRETE MASONRY UNIT
- CAVITY WALL INSULATION/PERLITE ROOFING INSULATION
- GROUND-FACE CONCRETE MASONRY UNIT
- POLYISO. ROOFING INSULATION
- CUT STONE
- THERMAL, SOUND, OR FIRE BATT-INSULATION
- STEEL
- GYPSUM BOARD
- ALUMINUM
- SPRAY-IN-PLACE THERMAL INSULATION

MASTER MATERIAL REFERENCE

033000.A	Footing
033000.B	Foundation Wall
033000.C	Slab-on-Grade
033000.E	Isolation Joint Material
035216.A	Lightweight Concrete Roof Insulation
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.C	Split Face CMU
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
042000.K	Grout
042000.L	Masonry Reinforcement
042000.M	Masonry Anchors
042000.O	Bond Beam
042000.W	Thru-Wall Flashing Support
044200.A	Stone Cladding
044301.A	Stone Masonry Veneer
047301.A	Cultured Stone Veneer
051200.A	Structural Steel Member
053100.A	Roof Deck
055000.B	Roof Ladder
061000.A	Wood Blocking
061000.B	Plywood Sheathing
061000.C	Wood Framing
064100.A	Custom Casework
064100.A1	Plastic Laminate Base Cabinet
064100.A12	Plastic Laminate Box, File w/ Hanging Hardware
064100.A13	Plastic Laminate Enclosure Panel
064100.A14	Plastic Laminate Covered Vertical Support Panel
064100.A15	Tackable, Fabric Wrapped Panel
064100.C6	Solid-Surface Countertop
064100.C8	Solid-Surface Countertop & Backsplash
064100.F1	Shelf Bracket
064100.L1	3 1/2" Dia Grommet Sleeve
071113.A	Bituminous Dampproofing
071300.A	Underslab Vapor Barrier
072100.B	Perimeter Foundation Board Insulation
072100.D	Sprayed-In-Place Thermal Insulation
072100.E	Extruded Polystyrene Board Insulation
072100.F	Transition Membrane
074113.E	Polyisocyanurate Insulation
075400.A	Thermoplastic Membrane Roofing System
075400.B	Termination Bar
075400.C	Tapered Edge Strip
075400.F	Drip Edge
075700.A	Coated Foam Roofing System
076200.H	Skirt Flashing
077100.A	Fascia
077100.B	Coping
077100.C	Drip Edge
077100.D	Reglet/Counter Flashing
077100.E	Expansion Joint
077200.B	Guardrail
077200.C	Safety Post
078400.A	Through-Penetration Fire Stop System
079005.A	Joint Sealant
079513.A	Joint Covers
081113.A	Steel Doors & Frames
081113.C	Steel Frame
083100.A	Access Door & Frame
083313.A	Coiling Counter Door
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
084313.E	Storefront Sunshade
088000.A	Glazing
092116.A	Gypsum Board Assemblies
092116.B	Metal Studs and Runners
092116.C	Gypsum Board-Regular/Type 'X'
092116.D	Fiberglass-Faced Exterior Gypsum Board
092116.E	Hat Channels
092116.G	Abuse Resistant Gypsum Board
092116.H	Mold/Moisture Resistant Gypsum Board
092116.I	Sound Attenuation Blankets
092116.L	Cement Board
092116.N	Exterior Gypsum Roof Board
093000.A	Ceramic Tile
093000.B	Wall Tile
095113.A	Acoustical Panel Ceiling System
096466.B	Floor Sleeves
096500.B	Resilient Tile Flooring
096513.A	Resilient Wall Base & Accessories
099000.A	Paint
101424.A	Signs
101424.B	Letters & Numbers
102800.A	Toilet & Bath Accessories
105000.A	Printed Display Material
107300.A	Column Supported Metal Canopy
107300.B	Wall Hung Metal Canopy
107300.D	Canopy Deck
123550.A	Institutional Casework
123550.A1	Plastic Laminate Base Cabinet
123550.A4	Plastic Laminate Wall Cabinet
123550.A6	Plastic Laminate Full-Ht. Storage Cabinet & Lock
123550.A10	Plastic Laminate Drawer Base Cabinet
123550.A11	Plastic Laminate Full-Height Storage Cabinet
123550.B2	Plastic Laminate Countertop & Backsplash
123550.F1	Shelf Bracket (match A&M Hardware, Size for Shelf Depth)
123550.F2	Countertop Support w/ In-Wall Blocking @ 32" O.C. (match A&M Hardware, size for Counter Depth)
123550.L1	3-1/2" Dia. Grommet Sleeve
321313.A	Concrete Paving

rosstarrant architects
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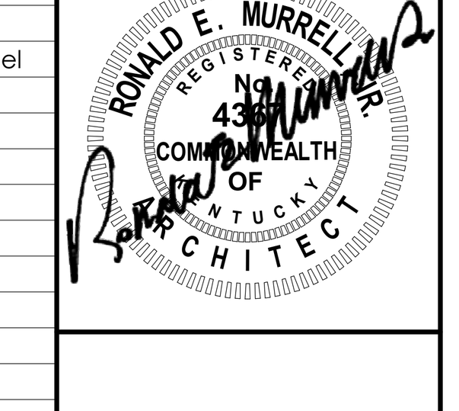

GENERAL ARCHITECTURAL DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
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Structural Engineer:
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BG# 19-262

Project No: 1904
Drawn By: BB
Rev'd By: RM

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CONSTRUCTION DOCUMENTS

A0.1

GENERAL ARCHITECTURAL DETAILS
DATE ISSUED:
9/13/19

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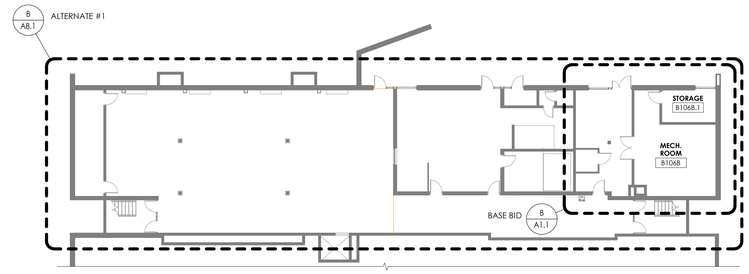
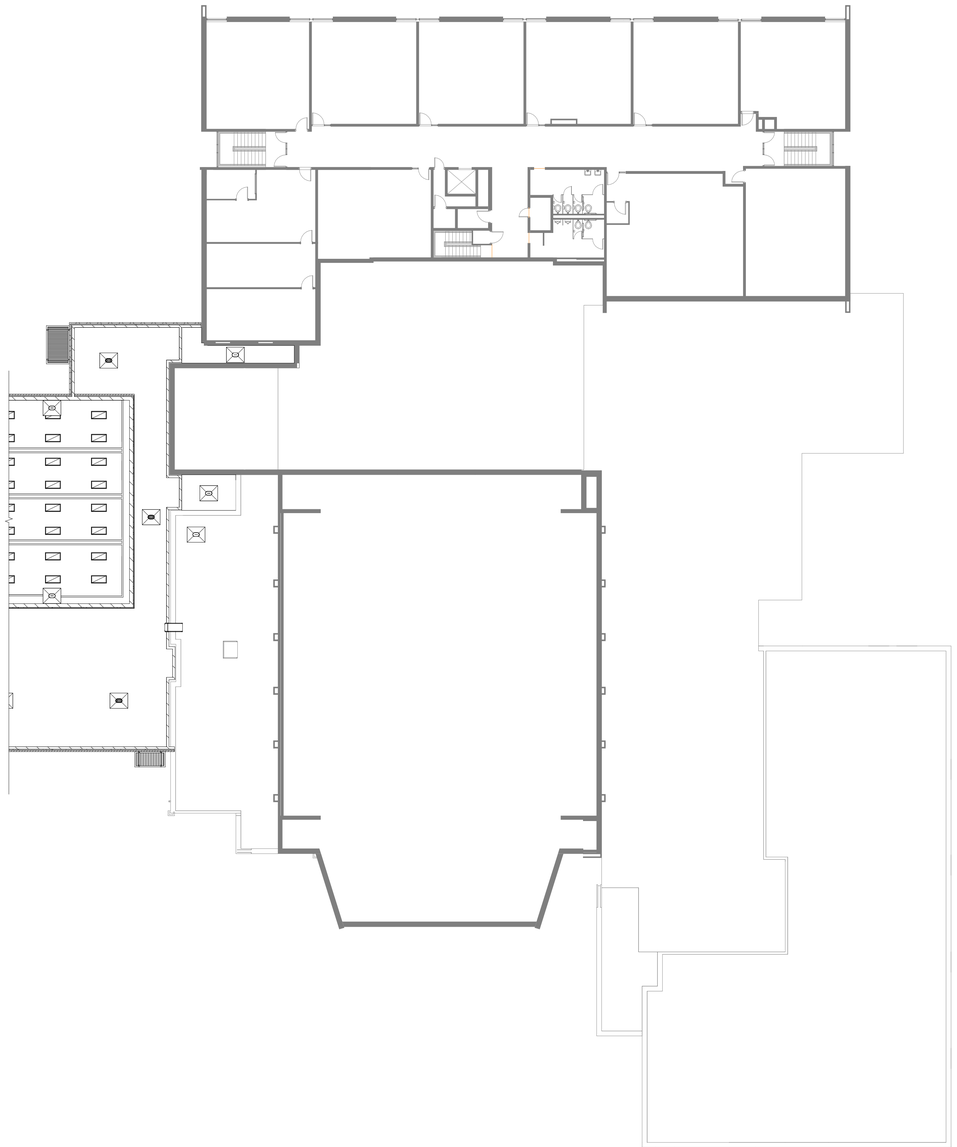
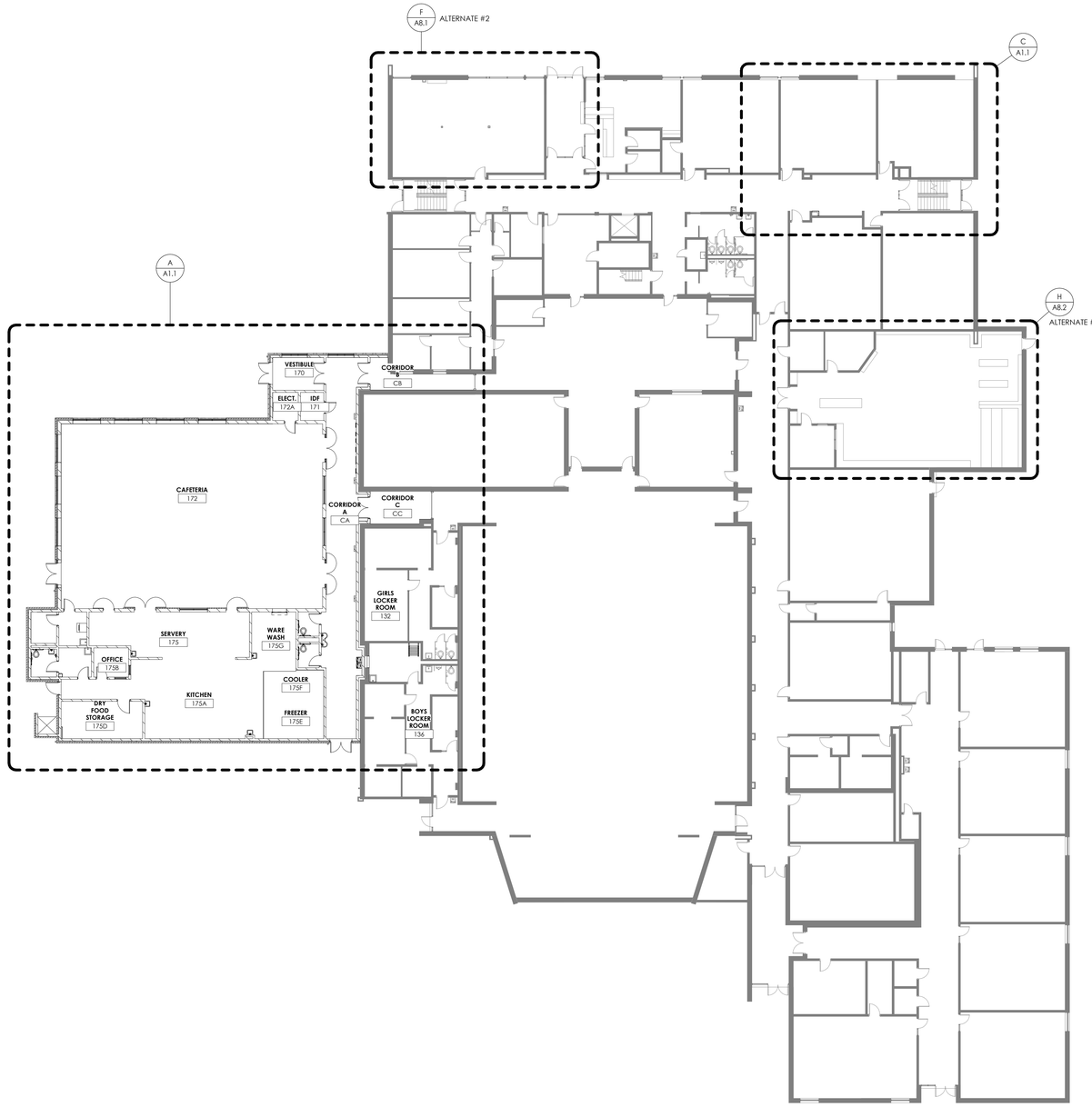
#	DATE	DESCRIPTION



BASEMENT REFERENCE PLAN
1/16" = 1'-0"
B A1.0



SECOND FLOOR REFERENCE PLAN
1/16" = 1'-0"
C A1.0



FIRST FLOOR REFERENCE PLAN
1/16" = 1'-0"
A A1.0

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RONALD E. MURRELL
LICENSED
No. 43
COMMONWEALTH OF KENTUCKY
ARCHITECT

REFERENCE PLANS

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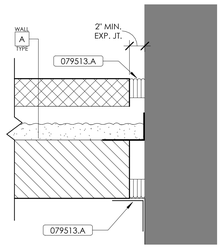
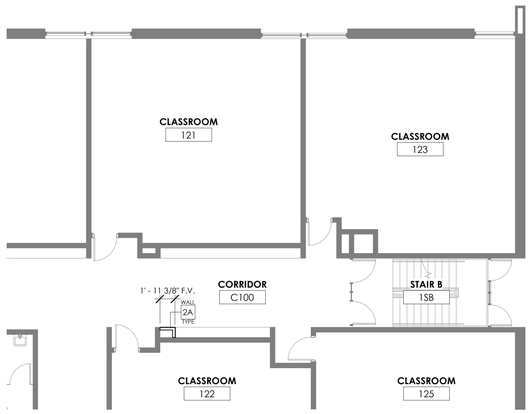


PLAN DETAIL
1 1/2" = 1'-0"
F A1.1



FIRST FLOOR PLAN
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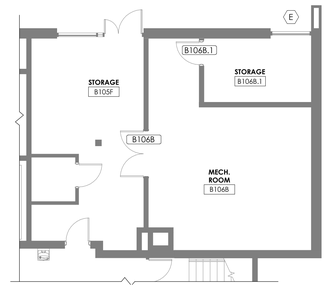
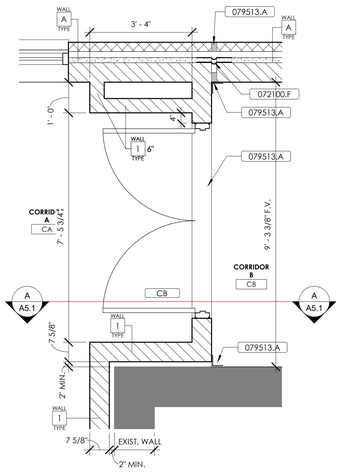
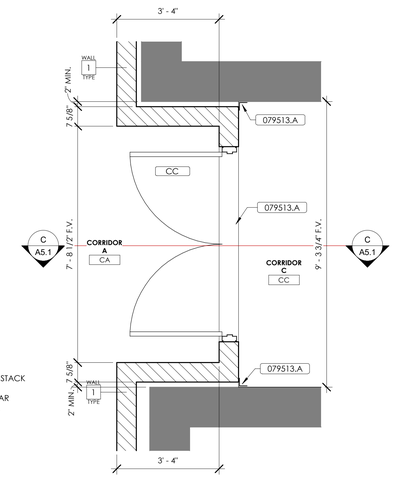
C A1.1



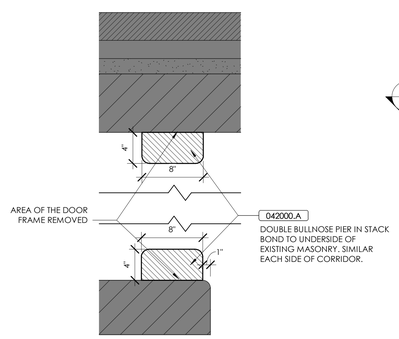
BASEMENT FLOOR PLAN
1/8" = 1'-0"
B A1.1



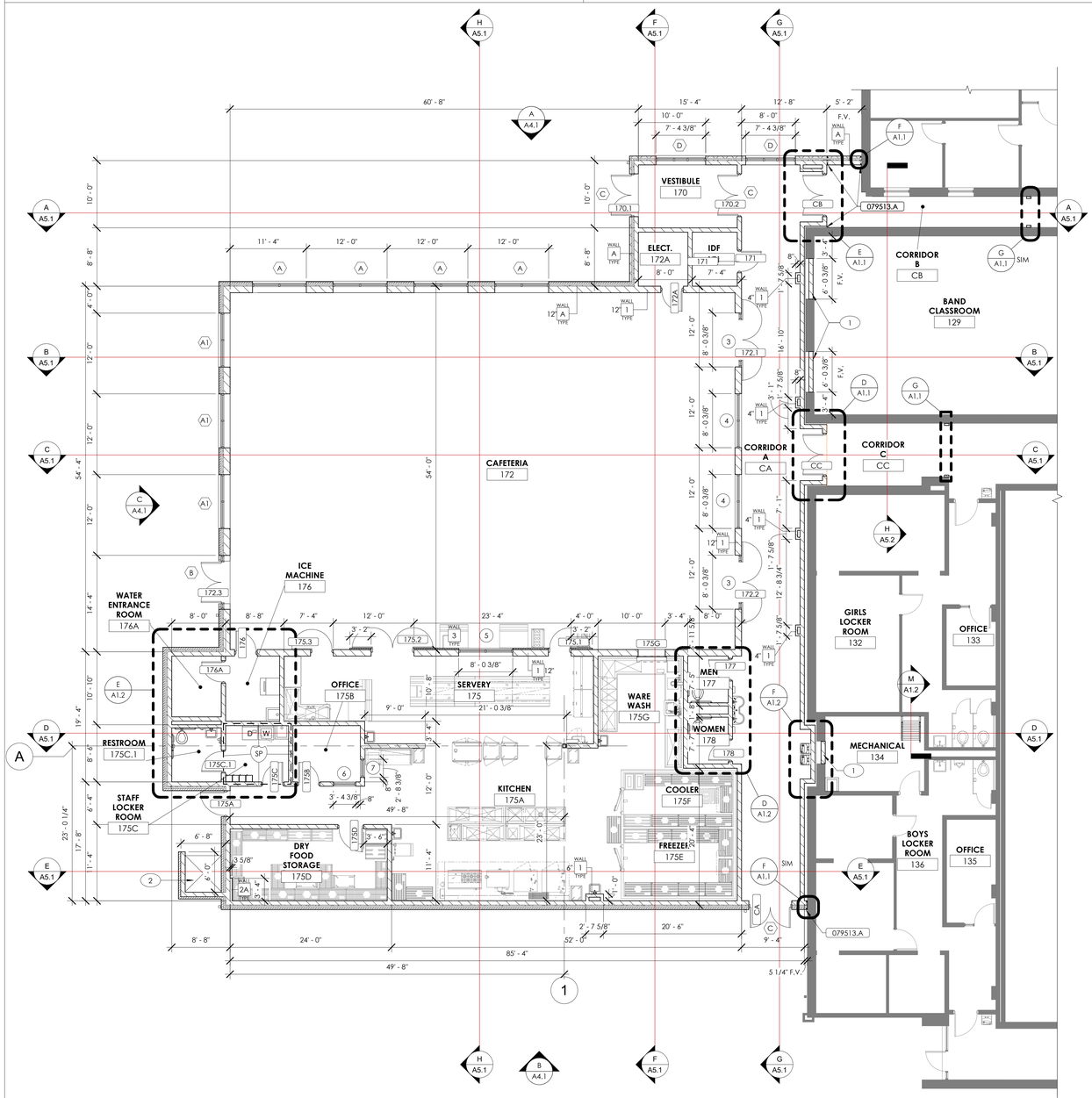
ENLARGED PLAN DETAIL
1/2" = 1'-0"
E A1.1



ENLARGED PLAN DETAIL
1/2" = 1'-0"
D A1.1



ENLARGED PLAN DETAIL
1 1/2" = 1'-0"
G A1.1



FIRST FLOOR PLAN
1/8" = 1'-0"
A A1.1

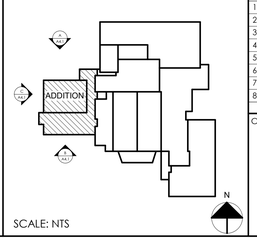
MATERIAL REFERENCE

042000.A	Concrete Masonry Unit
072100.F	Transition Membrane
079513.A	Joint Covers

PLAN NOTES

#	
1	PROVIDE INFILL CMU - FIELD VERIFY EXISTING OPENING DIMENSIONS. PAINT TO MATCH EXISTING (099000).
2	CAN WASH. SEE PLUMBING AND SITE DRAWINGS.
3	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. WITH REGULAR TYPE X GYP. BD. ABOVE.
4	PROVIDE CEMENT BD. (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM.
5	ATTACH 24 GA. SHEET METAL PLATE TO UNDERSIDE OF EXISTING METAL DECK AT LOCATION OF DEMOLISHED FLOOR OUTLET AND SLEEVE. FILL OPENING WITH GROUT OR CONCRETE AND HOLD 1/8" BELOW EXISTING FINISHED FLOOR. PROVIDE FLOOR FILLER; SMOOTH AND PREP FOR NEW FLOORING. FIELD VERIFY EXISTING OPENING SIZE AND LOCATION.
6	REFER TO SPECIFICATION SECTION 017300 FOR ANY ENCOUNTERED OPENINGS IN THE EXISTING WALLS OR DECK. FIELD VERIFY.

KEY PLAN



SCALE: NTS

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RONALD E. MURRELL
REGISTERED
No. 4328
COMMONWEALTH OF KENTUCKY
ARCHITECT

FLOOR PLANS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
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BURGIN, KENTUCKY

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Structural Engineer:
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BG# 19-262

Project No:	1904
Drawn By:	BB
Rev'd By:	RM

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A1.1
FLOOR PLANS

DATE ISSUED:
9/13/19

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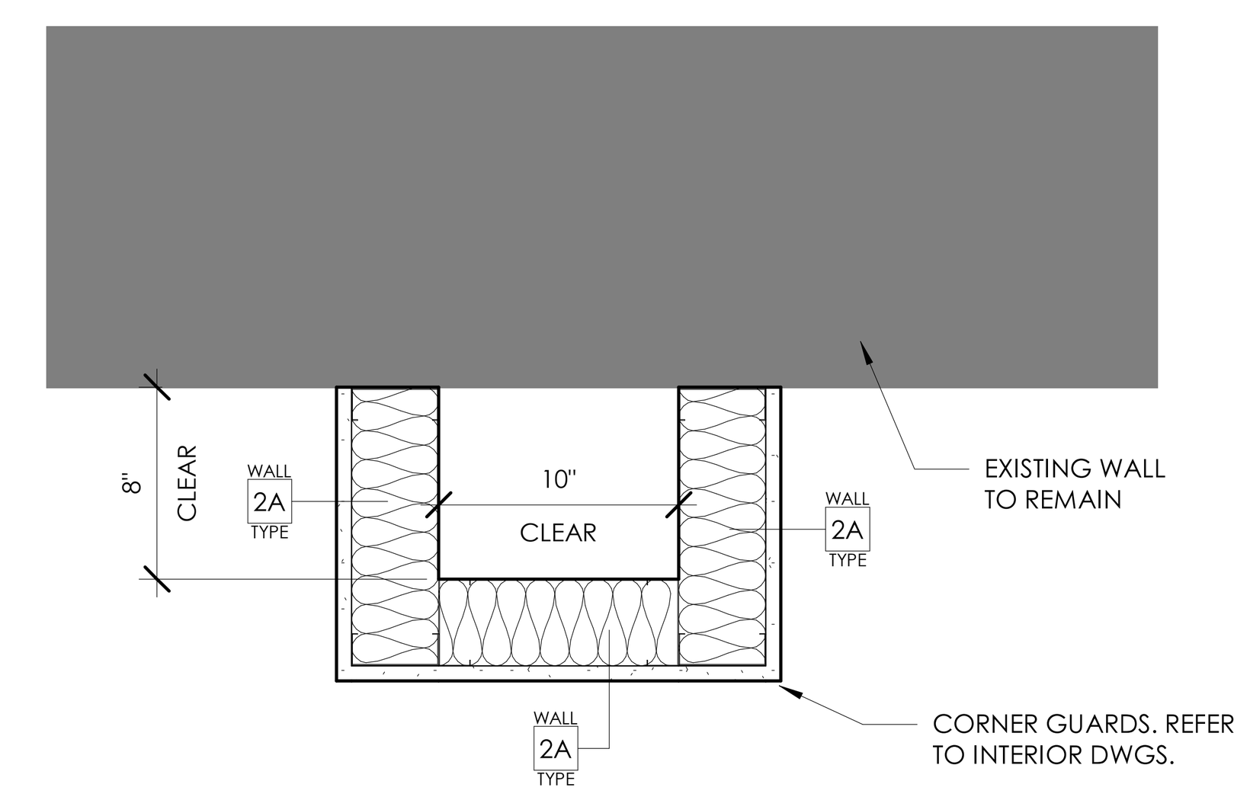
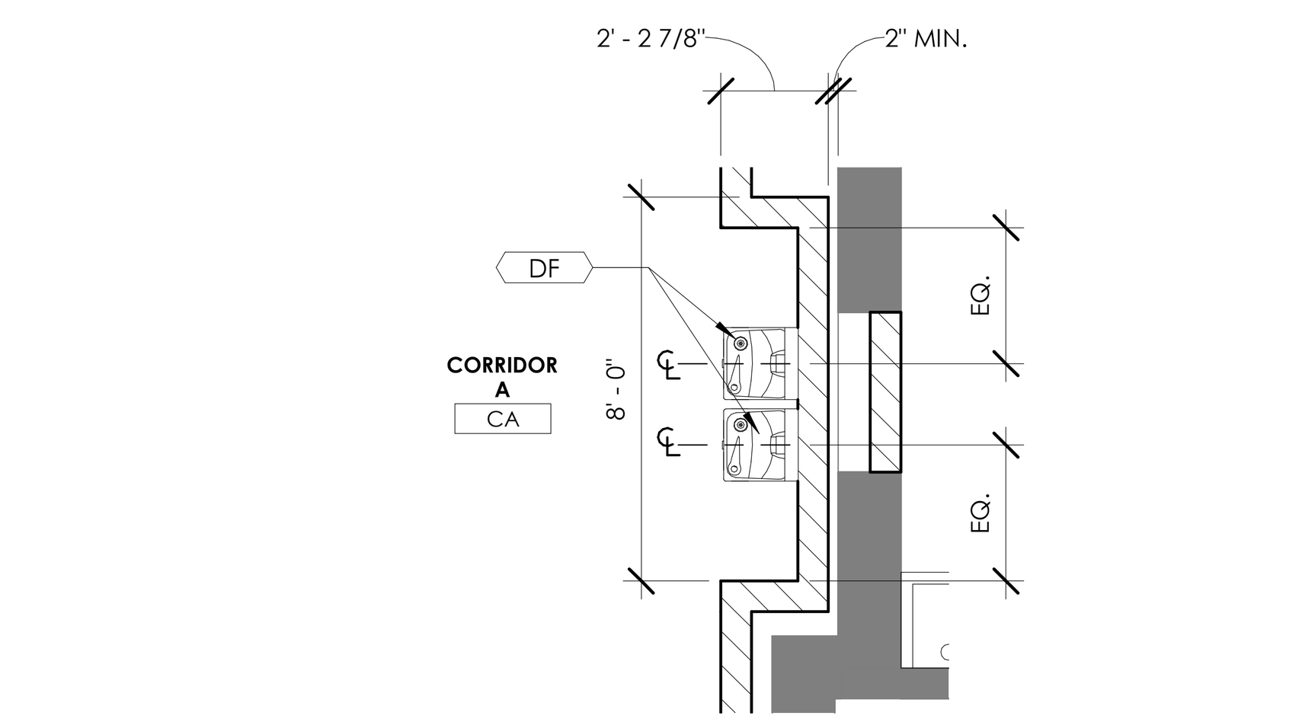
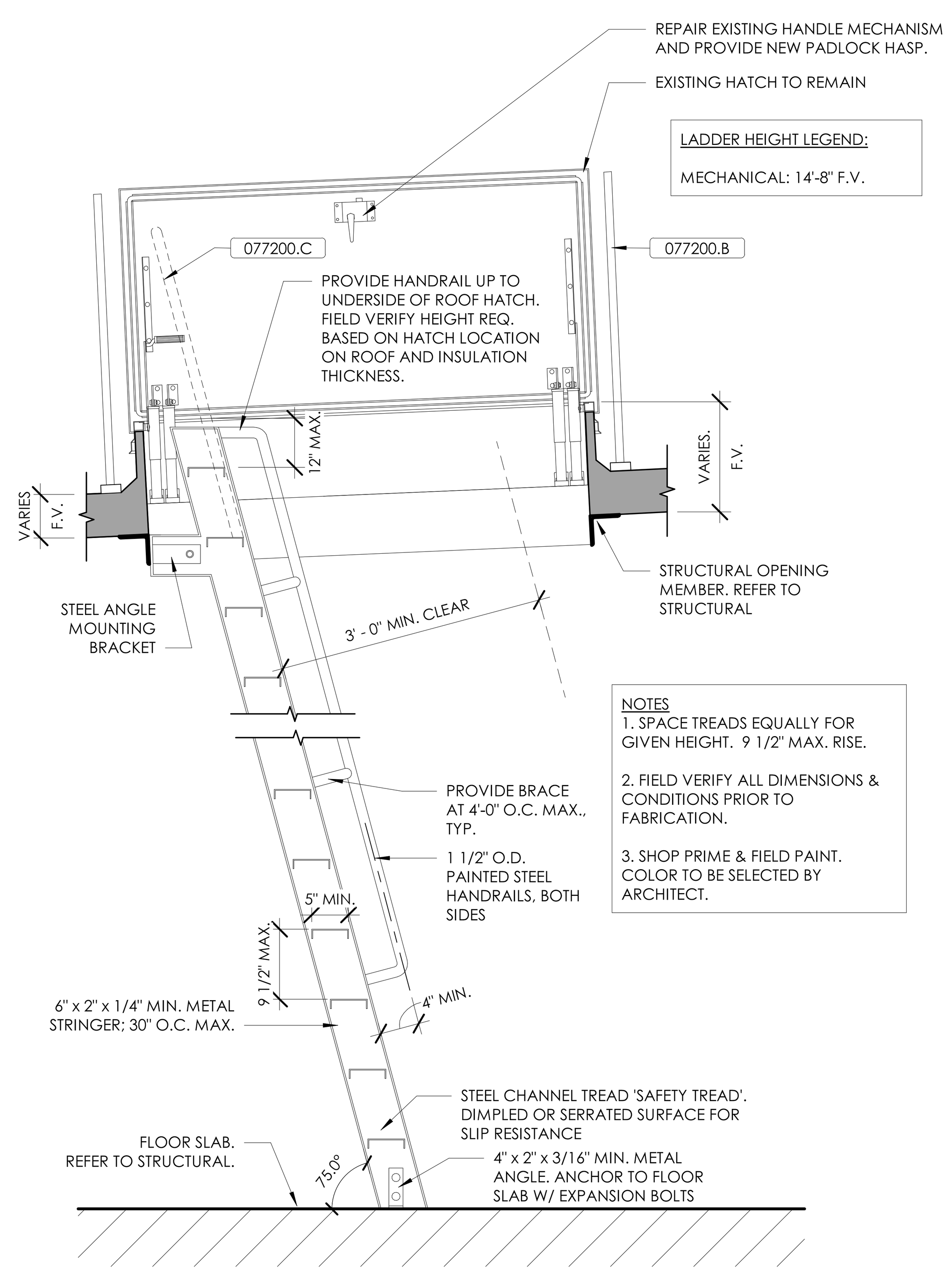


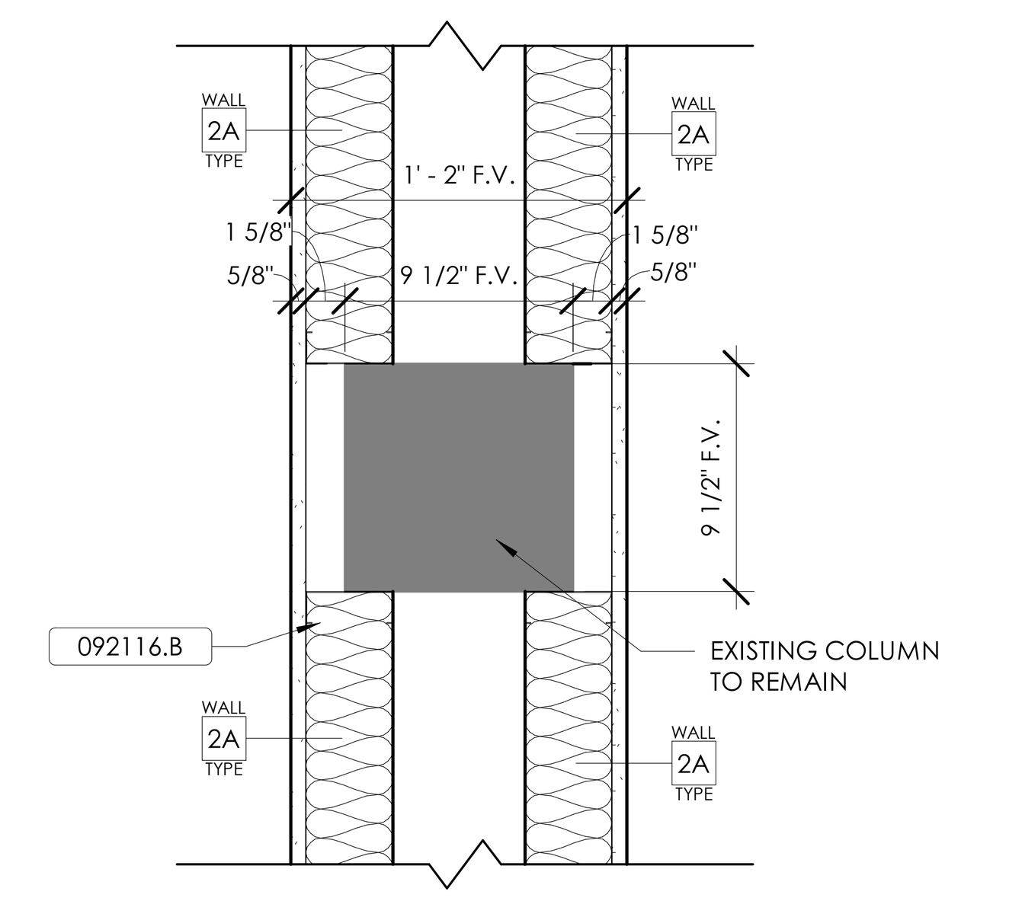
ENLARGED PLAN DETAIL - ALT. #1
1 1/2" = 1'-0"
L / A1.2



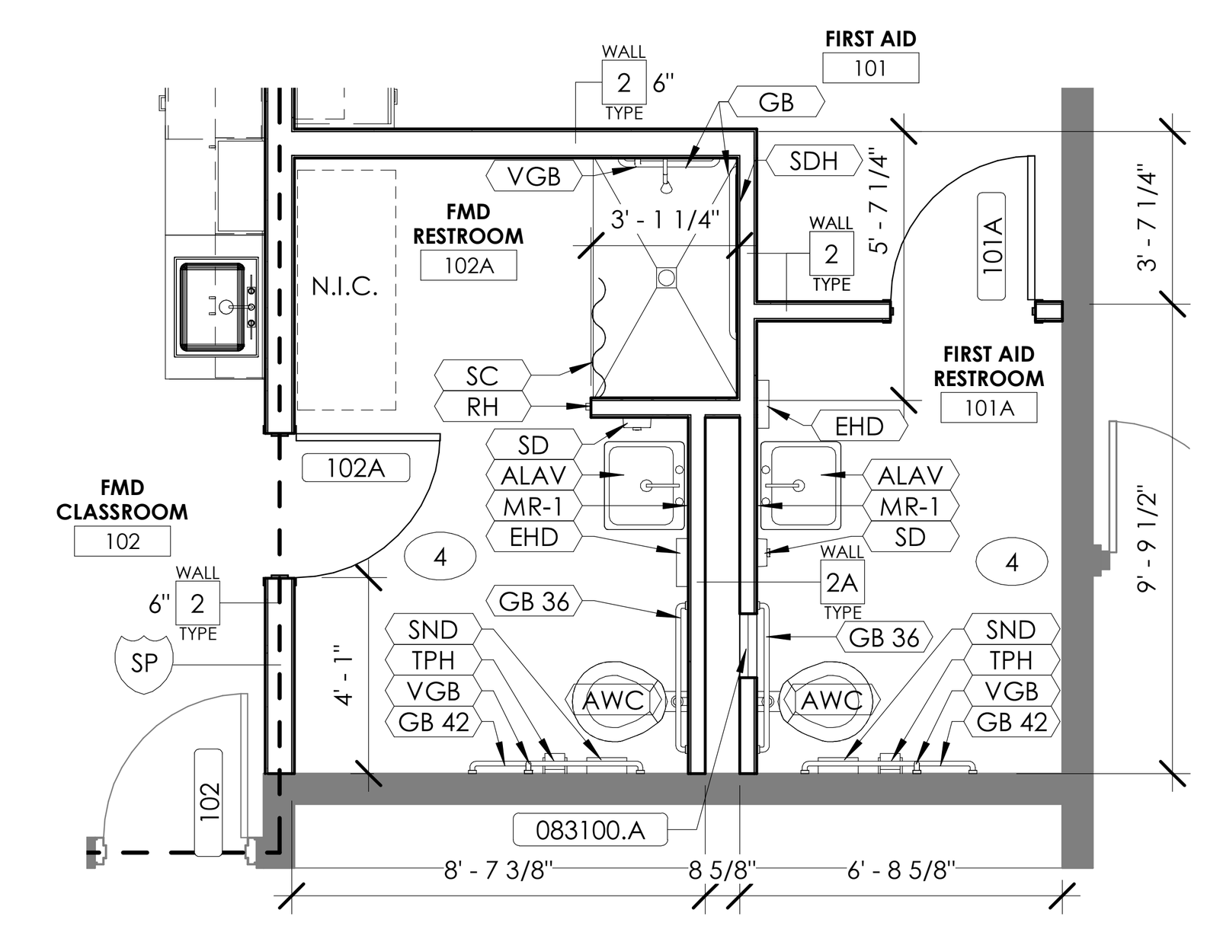
ENLARGED PLAN
1/4" = 1'-0"
F / A1.2



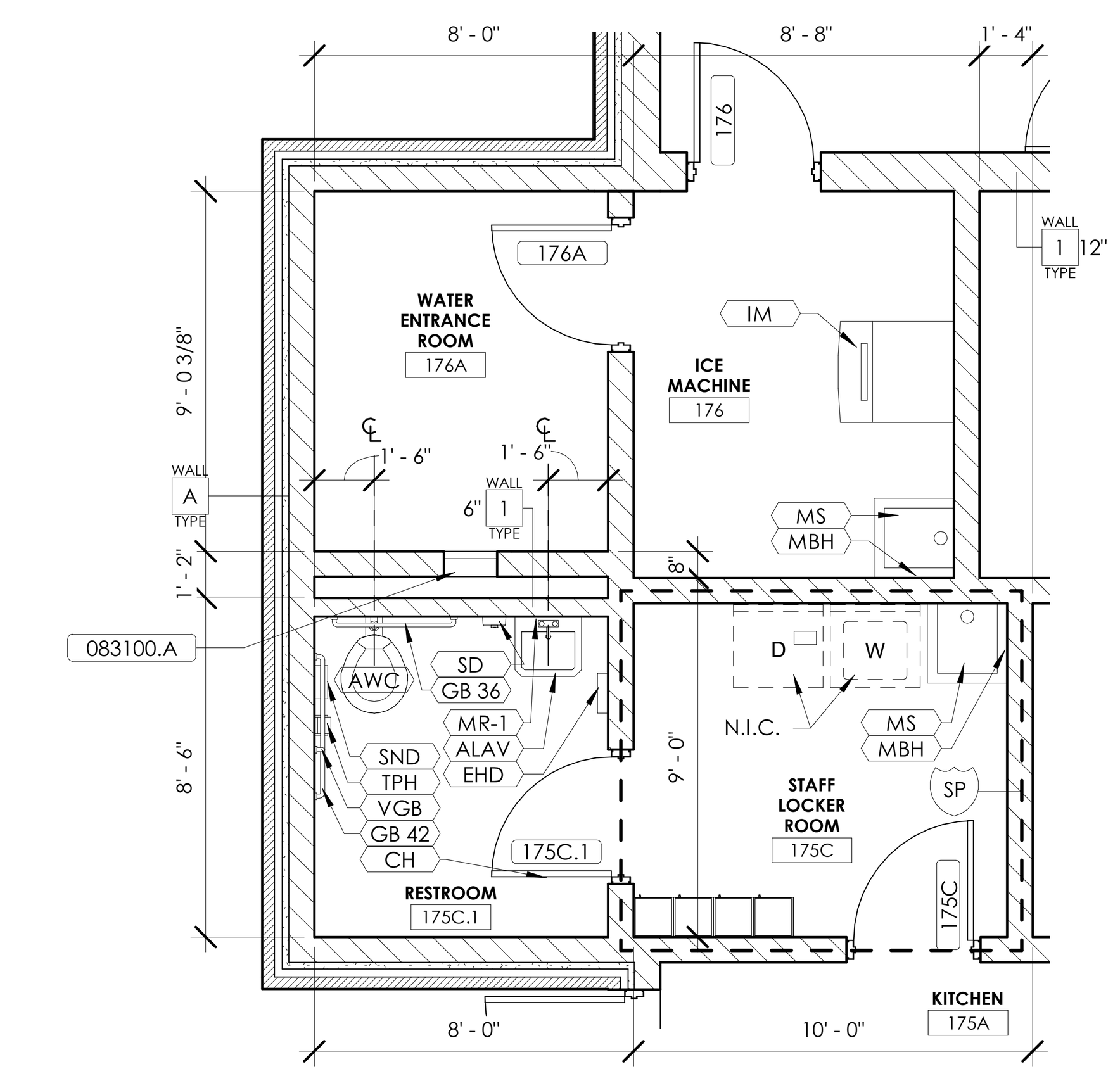
SLOPED LADDER DETAIL @ ROOF HATCH
3/4" = 1'-0"
M / A1.2



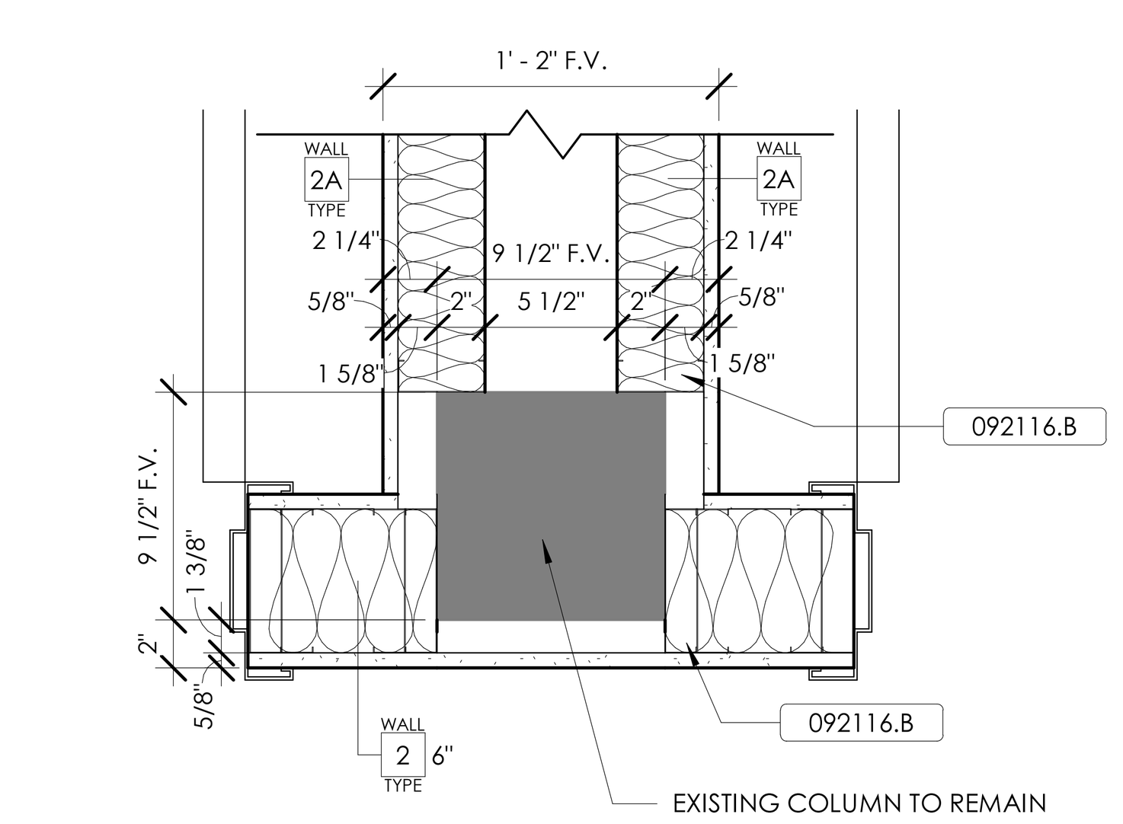
ENLARGED PLAN DETAIL - ALT. #1
1 1/2" = 1'-0"
K / A1.2



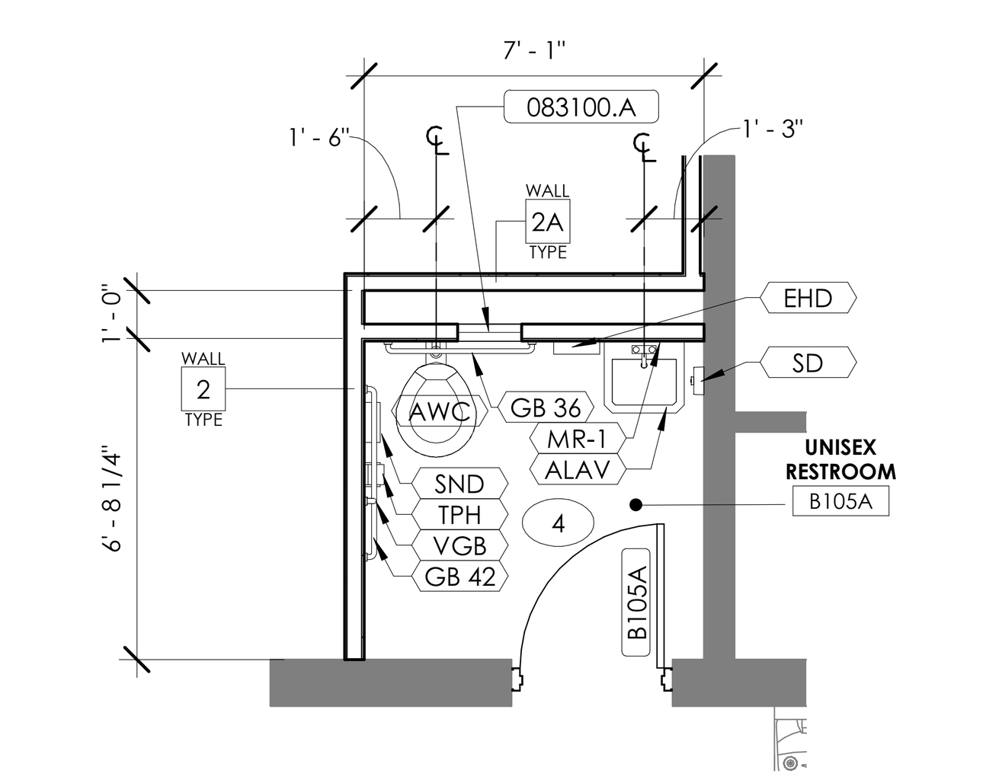
ENLARGED RESTROOM PLAN - ALT. #2
1/4" = 1'-0"
H / A1.2



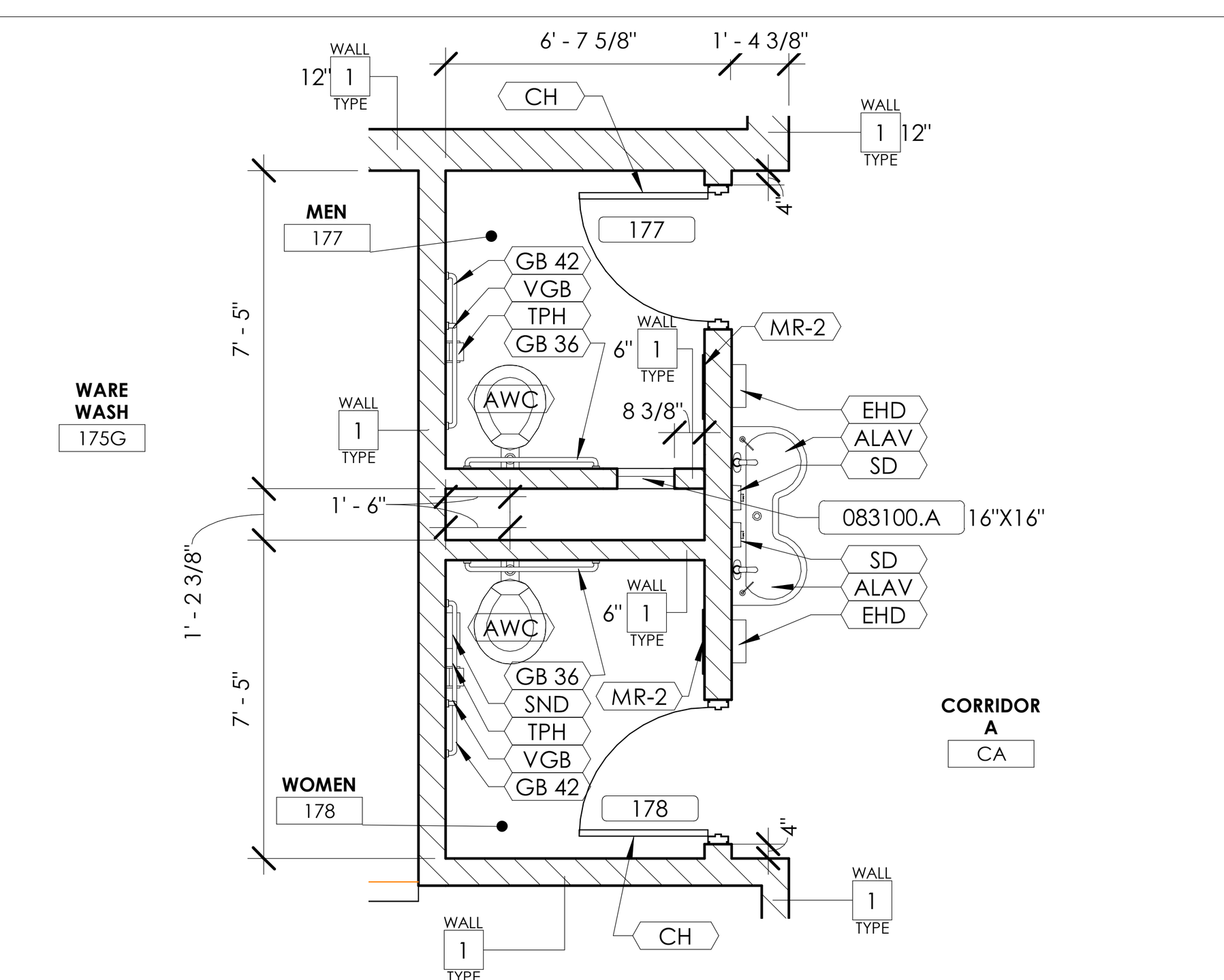
ENLARGED PLAN
1/4" = 1'-0"
E / A1.2



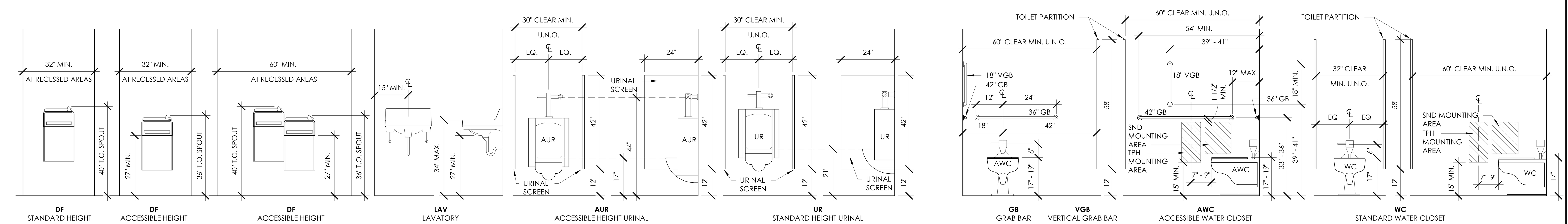
ENLARGED PLAN DETAIL - ALT. #1
1 1/2" = 1'-0"
J / A1.2



ENLARGED RESTROOM PLAN - ALT. #1
1/4" = 1'-0"
G / A1.2

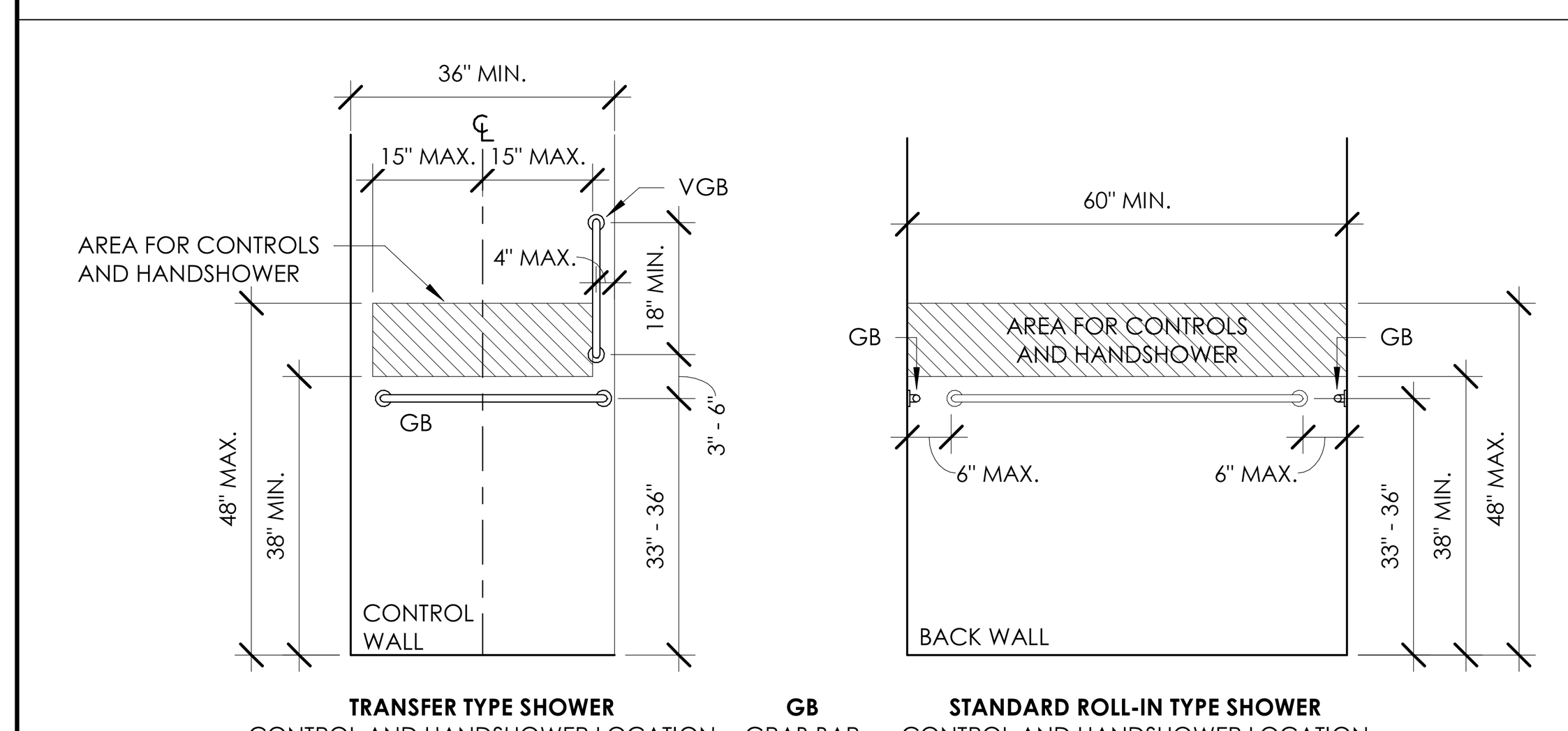


ENLARGED RESTROOM PLAN
1/4" = 1'-0"
D / A1.2

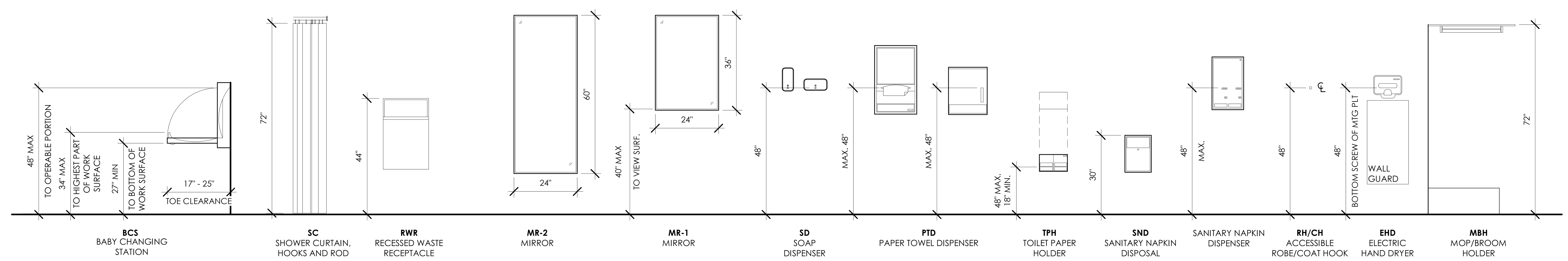


(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS
1/2" = 1'-0"
C / A1.2



SHOWER CONTROLS
1/2" = 1'-0"
B / A1.2



(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

TOILET ACCESSORIES, DEVICE, AND EQUIPMENT MOUNTING HEIGHTS
1/2" = 1'-0" 102800.A
A / A1.2

MATERIAL REFERENCE

077200.B	Guardrail
077200.C	Safety Post
083100.A	Access Door & Frame
092116.B	Metal Studs and Runners
102800.A	Toilet & Bath Accessories

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NOTES:

1. COORDINATE ALL PLUMBING FIXTURES AND TOILET ACCESSORIES WITH THE PLUMBING ENGINEER.
2. THE FOLLOWING ITEMS SHALL BE PROVIDED AND INSTALLED BY THE OWNER: PTD, TPH, SD.

TOILET ACCESSORY LEGEND

ALAV	ACCESSIBLE LAVATORY
AWC	ACCESSIBLE WATER CLOSET
CH	COAT HOOK
DF	DRINKING FOUNTAIN
EHD	ELECTRIC HAND DRYER
GB	SHOWER GRAB BAR
GB 36	36" GRAB BAR
GB 42	42" GRAB BAR
IM	ICE MACHINE. N.I.C.
MBH	MOP AND BROOM HANGER
MR-1	MIRROR 24" x 36"
MR-2	MIRROR 24" x 60"
MS	MOP SINK
RH	ACCESSIBLE ROBE HOOK
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SDH	SOAP DISH HOLDER
SND	SANITARY NAPKIN DISPOSAL
TPH	TOILET PAPER HOLDER
VGB	18" VERTICAL GRAB BAR

PLAN NOTES

#	
1	PROVIDE INFILL CMU - FIELD VERIFY EXISTING OPENING DIMENSIONS. PAINT TO MATCH EXISTING (099000).
2	CAN WASH. SEE PLUMBING AND SITE DRAWINGS.
3	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. WITH REGULAR TYPE X GYP. BD. ABOVE.
4	PROVIDE CEMENT BD. (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM.
5	ATTACH 24 GA. SHEET METAL PLATE TO UNDERSIDE OF EXISTING METAL DECK AT LOCATION OF DEMOLISHED FLOOR OUTLET AND SLEEVE. FILL OPENING WITH GROUT OR CONCRETE AND HOLD 1/8" BELOW EXISTING FINISHED FLOOR. PROVIDE FLOOR FILLER; SMOOTH AND PREP FOR NEW FLOORING. FIELD VERIFY EXISTING OPENING SIZE AND LOCATION.
6	REFER TO SPECIFICATION SECTION 017300 FOR ANY ENCOUNTERED OPENINGS IN THE EXISTING WALLS OR DECK. FIELD VERIFY.

ENLARGED FLOOR PLANS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
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CONSTRUCTION DOCUMENTS

A1.2

ENLARGED FLOOR PLANS

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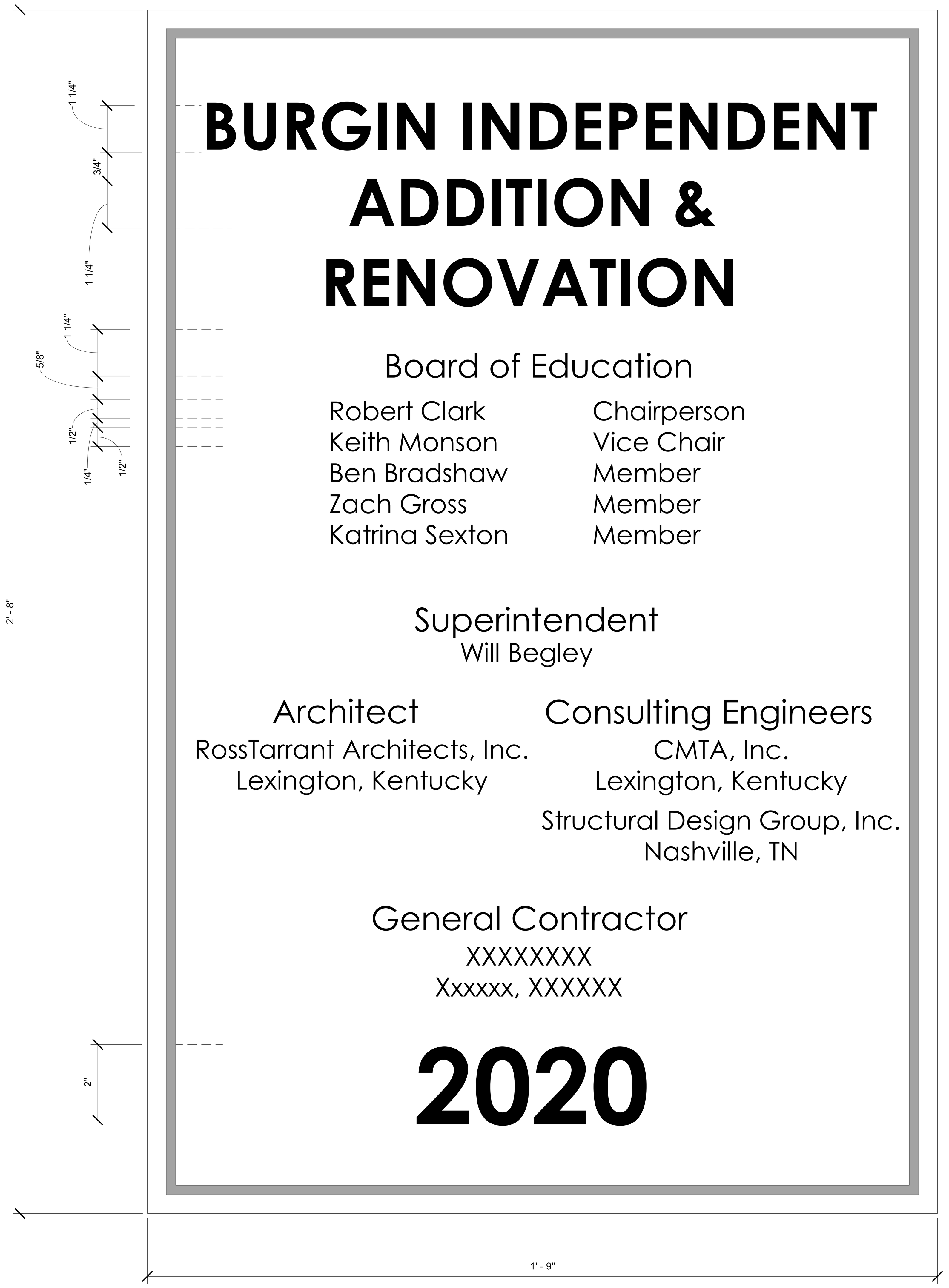


PLAQUE
6" = 1'-0"
D A2.0

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COMMENTS	Sign Type
129	BAND CLASSROOM	ETR	ETR	ETR	ETR	ETR	P - to match existing	ETR		NA
132	GIRLS LOCKER ROOM	ETR	ETR	ETR	ETR	ETR	ETR	P		NA
134	MECHANICAL	Area of floor to be patched for trenching, see A1 sheets. No new floor finish required.	ETR	ETR	ETR	ETR	ETR and P at new work	ETR	There shall be floor trenching in this room for new plumbing work. Refer to A1 sheets for concrete fill.	NA
170	VESTIBULE	VCT1	RB1 - 4"	P	P	P	P	ACT2		SIGN TYPE 4 (Exit) Qty 2
171	IDF	SC1	RB1 - 4"	P	P	P	P	P - Exposed Structure		SIGN TYPE 1
172	CAFETERIA	VCT1-VCT7	RB1 - 4"	P & AP Wainscot	P & AP Wainscot	P & AP Wainscot & Area of ST1	P & AP Wainscot	ACT2 & AP - Gypsum		SIGN TYPE 1 (Qty 2)
172A	ELECT.	SC1	RB1 - 4"	P	P	P	P	P - Exposed Structure		SIGN TYPE 1
175	SERVERY	QT1	QT1	P	P	P	P	ACT3 & P - Gypsum		SIGN TYPE 1 (Qty 3)
175A	KITCHEN	QT1	QT1	P	P	P	P	ACT3 & P - Gypsum		SIGN TYPE 1 (Qty 3)
175B	OFFICE	QT1	QT1	AP	P	P	P	ACT1		SIGN TYPE 2
175C	STAFF LOCKER ROOM	QT1	QT1	P	P	P	P	ACT1		SIGN TYPE 1
175C.1	RESTROOM	QT1	QT1	P	P	P	P	ACT1		SIGN TYPE 3
175D	DRY FOOD STORAGE	QT1	QT1	P	P	P	P	ACT3		SIGN TYPE 1
175E	FREEZER	QT1	QT1	P	P	P	P	NA		SIGN TYPE 1
175F	COOLER	QT1	QT1	P	P	P	P	NA		SIGN TYPE 1
175G	WARE WASH	QT1	QT1	P	P	P	P	ACT3		NA
176	ICE MACHINE	QT1	QT1	P	P	P	P	ACT1		SIGN TYPE 1
176A	WATER ENTRANCE ROOM	SC1	RB1 - 4"	P	P	P	P	P - Exposed Structure		SIGN TYPE 1
177	MEN	CT1	CT1 with Schluter	P above CT2 wainscot with CT3 accent tile	P above CT2 wainscot with CT3 accent tile	P above CT2 wainscot with CT3 accent tile	P above CT2 wainscot with CT3 accent tile	ACT1		SIGN TYPE 3
178	WOMEN	CT1	CT1 with Schluter	P above CT2 wainscot with CT3 accent tile	P above CT2 wainscot with CT3 accent tile	P above CT2 wainscot with CT3 accent tile	P above CT2 wainscot with CT3 accent tile	ACT1		SIGN TYPE 3
CA	CORRIDOR A	VCT1-VCT7	RB1 - 4"	P & AP Wainscot	P & AP Wainscot - area of CT2 at water fountain	P & AP Wainscot	P & AP Wainscot - area of CT2 at sink	ACT2 & AP - Gypsum		Sign Type 5 (Directional)
CB	CORRIDOR B	VCT1 at new work and existing VCT	RB1-4" at new work	ETR and P at new work	ETR	ETR and P at new work	P	ACT2 at new work and P - gypsum		SIGN TYPE 1
CC	CORRIDOR C	VCT1 at new work and existing VCT	RB1-4" at new work	ETR and P at new work	ETR	ETR and P at new work	P	ACT2 at new work and P - gypsum		SIGN TYPE 1

MATERIAL REFERENCE

093000.B	Wall Tile
099000.A	Paint
101424.A	Signs
101424.B	Letters & Numbers
102800.A	Toilet & Bath Accessories
105000.A	Printed Display Material

OPTIMUM MOUNTING HEIGHTS

ITEM (DIMENSION TO)	GRADE LEVEL				
	PRE-SCHOOL KINDERGARTEN	1 THRU 3	4 THRU 6	7 THRU 9	10 THRU 12
VISUAL DISPLAY BOARDS - MARKER, TACK, CHALK	TOP 70" BOTTOM 22"	TOP 73" BOTTOM 25"	TOP 77" BOTTOM 29"	TOP 80" BOTTOM 32"	TOP 80" BOTTOM 34"
COUNTERTOP: STANDING POSITION (TOP)	24"	26"	30"	34"	36"
DESKTOP/TABLETOP: SEATED POSITION (TOP)	18"	20"	23"	26"	27"
PANIC DEVICE DOOR HARDWARE (CENTERLINE)	27"	31"	36"	40"	42"
FIRE EXTINGUISHER CABINET (BOTTOM)	32"			40"	
FIRE EXTINGUISHER CABINET (CENTER OF VALVE LINE)	64"			64"	
COAT HOOK (CENTERLINE)	36"	41"	48"	54"	55"

FINISH LEGEND

SPEC SECTION	KEY	BASIS OF DESIGN
047301	ST1	FAUX STONE
064100	HPL3	TYP. MEDIA CENTER PLASTIC LAMINATE (TBD)
	HPL4	TRANSACTION - MEDIA CENTER PLASTIC LAMINATE (TBD)
	SS1	SOLID SURFACE COUNTER - MEDIA CENTER (TBD)
	SS2	SOLID SURFACE SILLS - ALT #2
092116	FRP1	FIBERGLASS REINFORCED PANELS
093000	CT1	"WOOD" PORCELAIN PLANK FLOOR TILE OVER EXISTING (SEE SPECS)
	CT2	TYP 5'-9"+/- WAINSCOT WALL TILE IN RESTROOMS ON PLUMBING WALLS (SEE SPECS)
	CT3	GLASS ACCENT WALL TILE IN RESTROOMS ON PLUMBING WALLS (SEE SPECS)
	QT1	QUARRY TILE
095113	ACT1	ACOUSTICAL CEILING TILE 2X4 - SQUARE EDGE
	ACT2	ACOUSTICAL CEILING TILE 2X4 - TEGULAR EDGE
	ACT3	ACOUSTICAL CEILING TILE 2X2 - WASHABLE FACE
096500	VCT	VCT COLORS 1-7
096513	RB1	RESILIENT BASE 4" AND 6"
096623	T1	TERRAZZO AND PRECASE BASE
090000	P1	TYPICAL PAINT
	AP	ACCENT PAINT - THERE WILL BE UP TO 5 COLORS OF ACCENT PAINT
	HMP	HOLLOW METAL FRAMES
101101	MB1	MARKERBOARDS - VARIOUS SIZES
101101	TB1	TACKBOARDS - VARIOUS SIZES
101424		SIGNAGE
102600	CG1	CORNER GUARD
105000	WG1	PRINTED DISPLAY - WALL GRAPHIC
105050	L1	LOCKERS
122413	RWS1	MANUAL ROLLER WINDOW SHADES
123550	HPL1	TYPICAL BASE AND WALL CABINETS
123550	HPL2	TYPICAL COUNTERTOPS

EQUIPMENT LEGEND

A4	4' -0"W X 4"-0"H MARKERBOARD	REFER TO SPECIFICATION
A6	6' -0"W X 4"-0"H MARKERBOARD	REFER TO SPECIFICATION
A10	10' -0"W X 4"-0"H MARKERBOARD	REFER TO SPECIFICATION
A12	12' -0"W X 4"-0"H MARKERBOARD	REFER TO SPECIFICATION
B4	4' -0"W X 4"-0"H TACKBOARD	REFER TO SPECIFICATION
B6	6' -0"W X 4"-0"H TACKBOARD	REFER TO SPECIFICATION
B8	8' -0"W X 4"-0"H TACKBOARD	REFER TO SPECIFICATION
B10	10' -0"W X 4"-0"H TACKBOARD	REFER TO SPECIFICATION
B12	12' -0"W X 4"-0"H TACKBOARD	REFER TO SPECIFICATION
C	CORNER GUARD	REFER TO SPECIFICATION
D	TACK STRIP DOUBLE HEIGHT	REFER TO SPECIFICATION
E	INSTRUCTOR'S DESK	N.I.C.
F	STUDENT COMPUTER LOCATIONS	N.I.C.
G	COT	N.I.C.
H	TV LOCATION	N.I.C.
I	OWNER'S CHANGING TABLE	N.I.C.
J	PROJECTOR LOCATION	N.I.C.
K	INTERACTIVE BOARD	N.I.C.
L1	LOCKERS - DOUBLE TIER, 12 X 12 X 60, LOUVER VENT, REFER TO PLANS FOR BASE	REFER TO SPECIFICATION
M	HVAC UNIT	REFER TO MEP SPECS
N	PROJECTION SCREEN	REFER TO MEP SPECS
O	MOP AND BROOM HOLDER	REFER TO MEP SPECS

ROOM FINISH NOTES

1. ALL WALLS, GYPSUM BOARD CEILINGS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, ALL UNFINISHED SURFACES EXPOSED AFTER CONSTRUCTION IS COMPLETE SHALL RECEIVE PAINT UNLESS OTHERWISE NOTED.
2. ALL UNFINISHED EXTERIOR SURFACES INCLUDING CONCRETE BLOCK, STEEL LINTELS, ETC... WILL RECEIVE A PAINT SYSTEM. REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLANS FOR WALL ASSEMBLY TYPES.
4. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ON CEILINGS AND SOFFIT LOCATIONS.
5. PROVIDE COLOR MATCHING CAULK AT THE INTERSECTION OF HOLLOW METAL FRAMES AND HARD SURFACE FLOORING, TYP.
6. WHERE FLOOR TILE BORDERS/PATTERNS OCCUR, THE CENTER "FIELD" TILES SHALL BE FULL SIZE TILES AND THE BORDER TILES ALONG THE WALL SHALL BE CUT TO CENTER THE FIELD TILES.
7. ALL FURNITURE/EQUIPMENT SHOWN DASHED IS FOR REFERENCE ONLY AND IS NOT IN THIS CONTRACT.
8. ALL CASEWORK TOE KICK AREAS AND/OR OTHER CASEWORK SURFACES WHICH ABUT FLOOR FINISHES WILL RECEIVE RESILIENT BASE.
9. WHERE MARKERBOARDS AND TACKBOARDS ARE TOO WIDE FOR THE LOCATION INDICATED, THE SUPPLIER SHALL NOTIFY THE DESIGNER AND MODIFY THE WIDTH ACCORDINGLY.
10. IN SOME CASES MORE THAN ONE TYPE OF FLOORING AND/OR CEILING FINISH WILL OCCUR IN ONE SPACE - REFER TO FLOOR PLANS, REFLECTED CEILING PLANS, FINISH SCHEDULE AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. PROVIDE MECHANICALLY FASTENED, WALL CORNER GUARDS FOR ALL OUTSIDE GYPSUM CORNERS, TYP. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. COUNTERTOP & SHELVING BRACKETS (WHERE APPLICABLE WILL BE EQUAL TO A&M HARDWARE STEEL BRACKETS. SIZES SHALL ACCOMMODATE THE VARIUS DEPTHS INDICATED IN THE DRAWINGS.
13. ALL LOUVERS, GRILLS, REGISTERS & DIFFUSERS SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.
14. STANDOFFS FOR DISPLAY SHALL BE EQUAL TO NOVA DISPLAY KASP-001 WITH INSERT SIZE 8.5" X 11", KASP-002 WITH INSERT SIZE 11"X14", AND KASP-008 WITH INSERT SIZE 18" X 24. ACRYLIC PANELS SHALL BE NON GLARE WITH POLISHED EDGES. 1/2" HIGH STAND OFFS WITH SATIN CHROME FINISH AND SHALL BE ABLE TO MOUNT TO CMU. STAND OFFS SHALL HAVE TAMPER RESISTENT HEADS.
15. ITEM "D" DOUBLE HEIGHT TACKSTRIPS SHALL BE MOUNTED AT 64" AND 40".
16. WINDOWS IN THE CAFETERIA SHALL RECEIVE 1% OPENNESS FACTOR WINDOW SHADES.
17. REFER TO ALT #2 FOR AREAS TO RECEIVE SOLID SURFACE WINDOW SILLS ON TOP OF NEW DRYWALL KNEEWALLS.
18. PROVIDE 4" AND 6" RESILIENT BASE IN ALL AREAS TO RECEIVE RESILIENT BASE. REFER TO ROOM FINISH SCHEDULE FOR HEIGHT. PROVIDE 4" BASE AT CASEWORK.

SIGNAGE TYPES

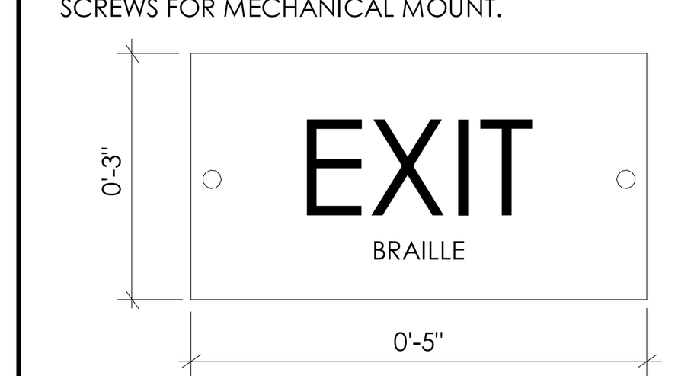
SEE SPECIFICATION 101424 FOR SIGN MANUFACTURING AND INSTALLATION DETAILS

SIGN TYPE 1 (TYPICAL): TYPICAL 8"H X 8"W PANEL SIGN - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 2 (WITH WINDOW): TYPICAL 8"H X 8"W PANEL SIGN WITH OPENING FOR REMOVABLE PAPER INSERT- REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 3 (RESTROOM & OTHER SYMBOL SIGNS) : TYPICAL 8"H X 8"W PANEL SIGN WITH SYMBOL - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

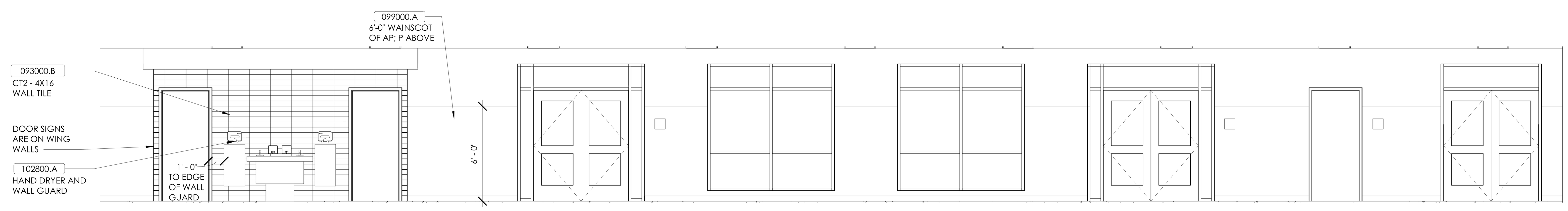
SIGN TYPE 4 (EXIT) : 3"H X 5"W PANEL SIGN AS SHOWN BELOW THAT CONFORMS TO CODE STANDARDS, TWO SCREWS FOR MECHANICAL MOUNT.



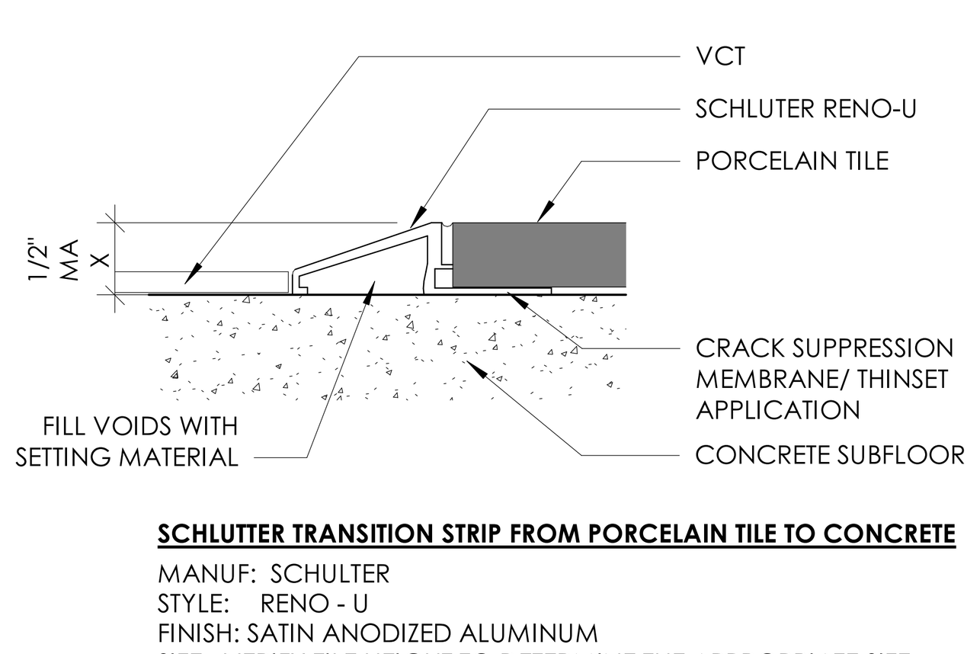
SIGN TYPE 5 (DIRECTIONAL) : (VARIES AS NEEDED BY TEXT, NOT TO EXCEED 20")"H X 18"W PANEL SIGN WITH ARROWS AND NUMBERS AND TEXT

SIGN TYPE 6 (EXIT STAIR) : 5"H X 5"W EXIT STAIR SIGN WITH BRAILLE AND CONFORMING TO CODE STANDARDS WITH TEXT "EXIT STAIR DOWN"

PLAQUE: SEE A2.0 FOR PLAQUE SIZE AND TEXT

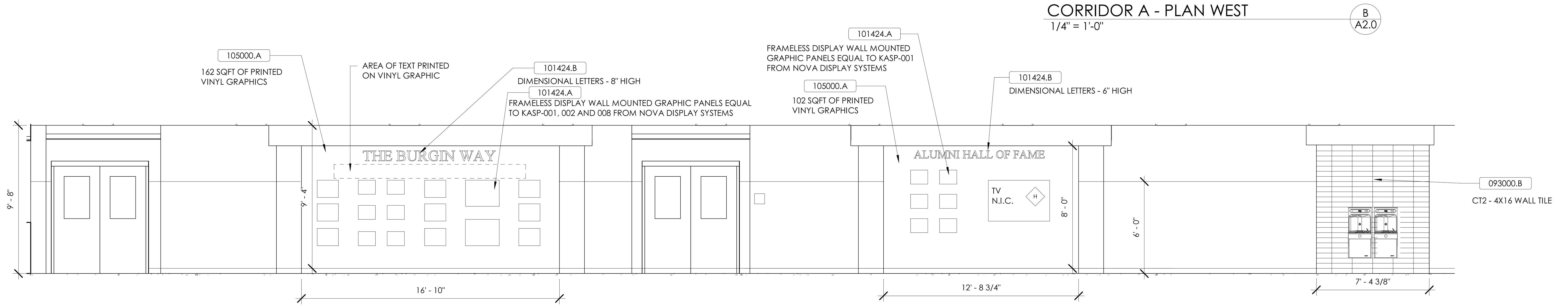


CORRIDOR A - PLAN WEST
1/4" = 1'-0"
B A2.0



SCHLUTTER TRANSITION STRIP FROM PORCELAIN TILE TO CONCRETE
MANUF: SCHLUTER
STYLE: RENO - U
FINISH: SATIN ANODIZED ALUMINUM
SIZE: VERIFY TILE HEIGHT TO DETERMINE THE APPROPRIATE SIZE.

TRANSITION @ PORCELAIN TILE / VCT
12" = 1'-0"
C A2.0



CORRIDOR A - PLAN EAST
1/4" = 1'-0"
A A2.0

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL
4373
COMMONWEALTH OF KENTUCKY
REGISTERED ARCHITECT

FINISH SCHEDULE AND DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: KC
Rev'd By: DC

SHEET RELEASE		
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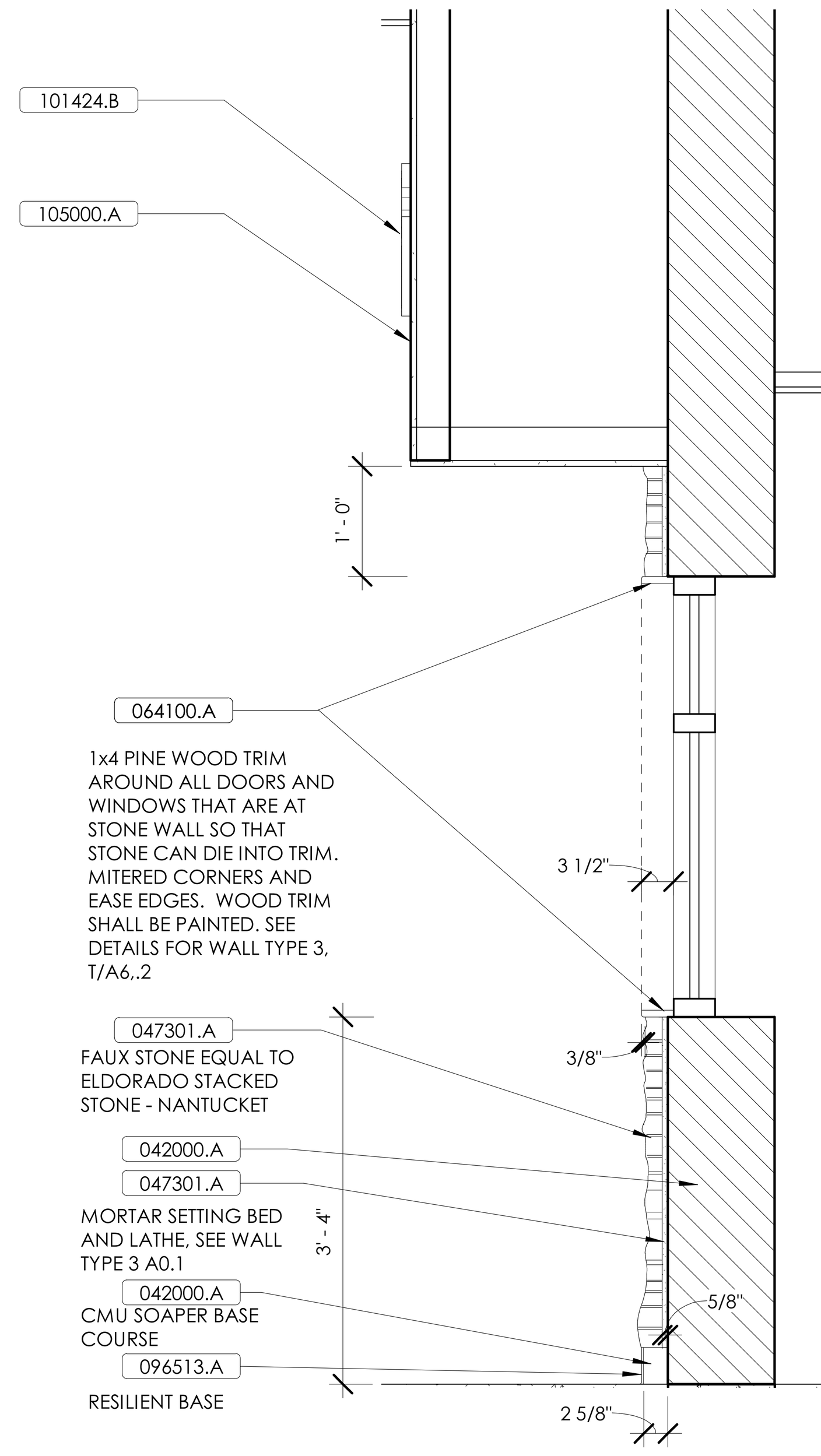
CONSTRUCTION DOCUMENTS

A2.0

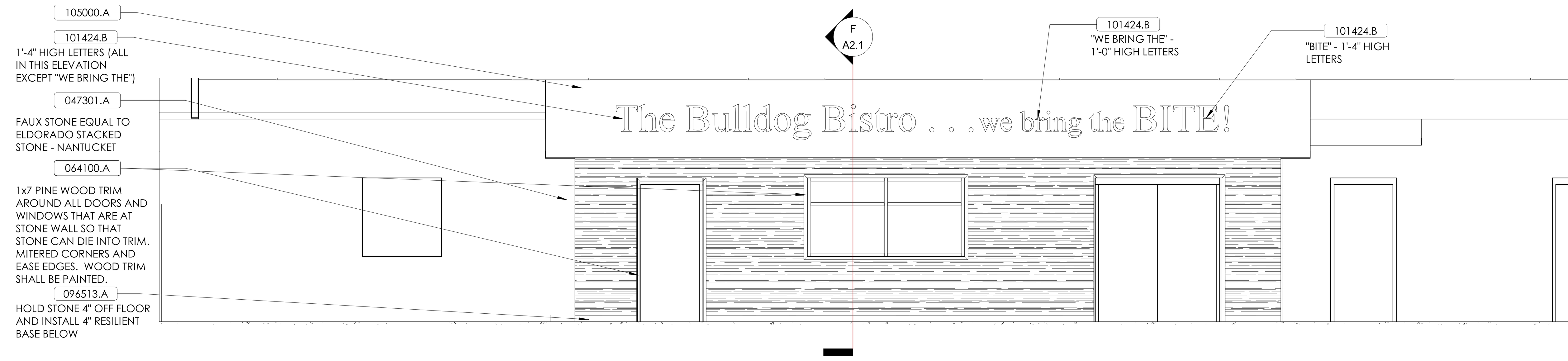
FINISH SCHEDULE AND DETAILS

DATE ISSUED:
9/13/19

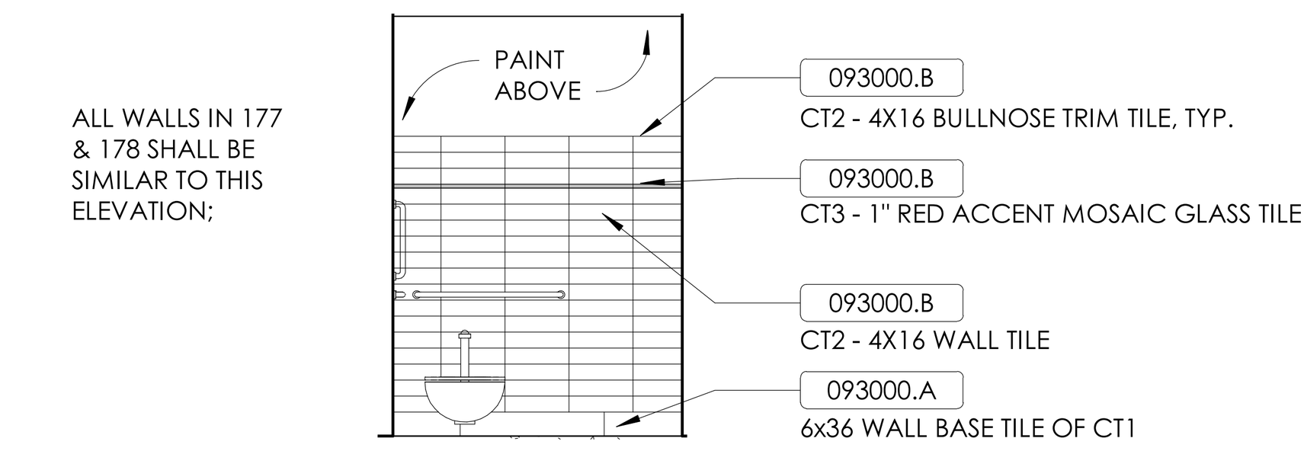
REVISIONS		
#	DATE	DESCRIPTION



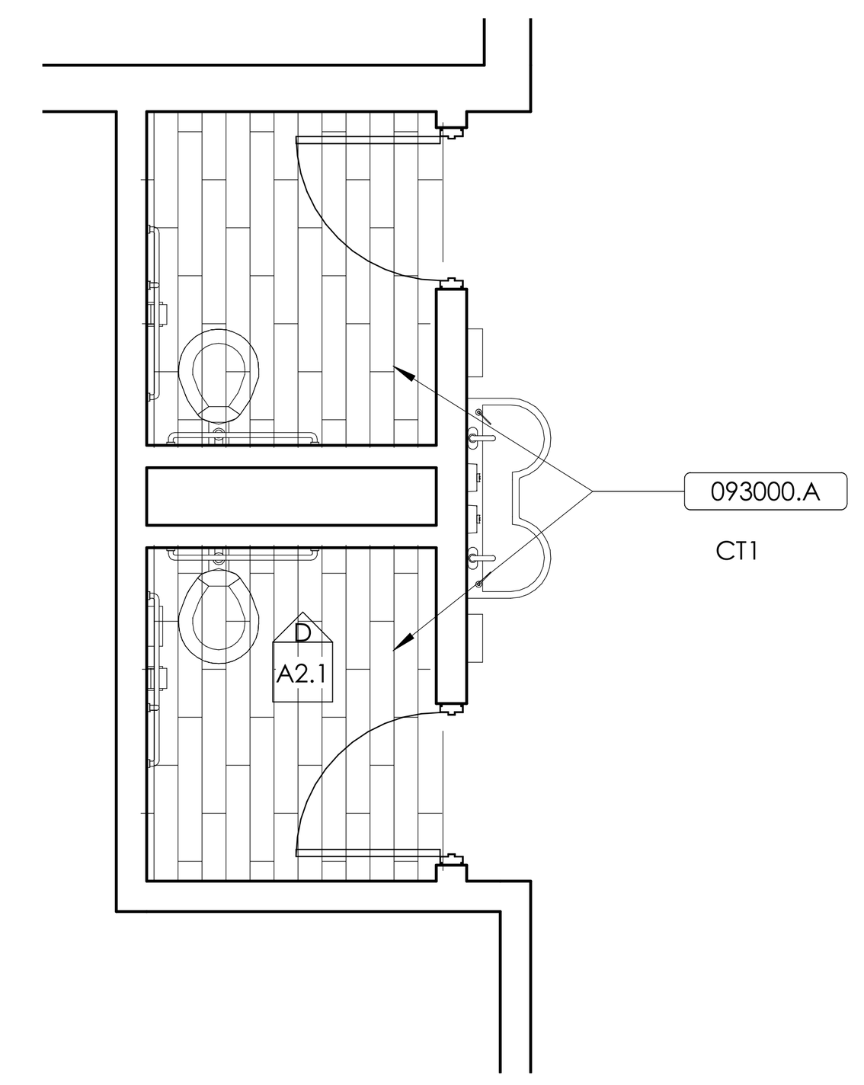
SECTION OF FAUX STONE AT CAFETERIA (F / A2.1)
3/4" = 1'-0"



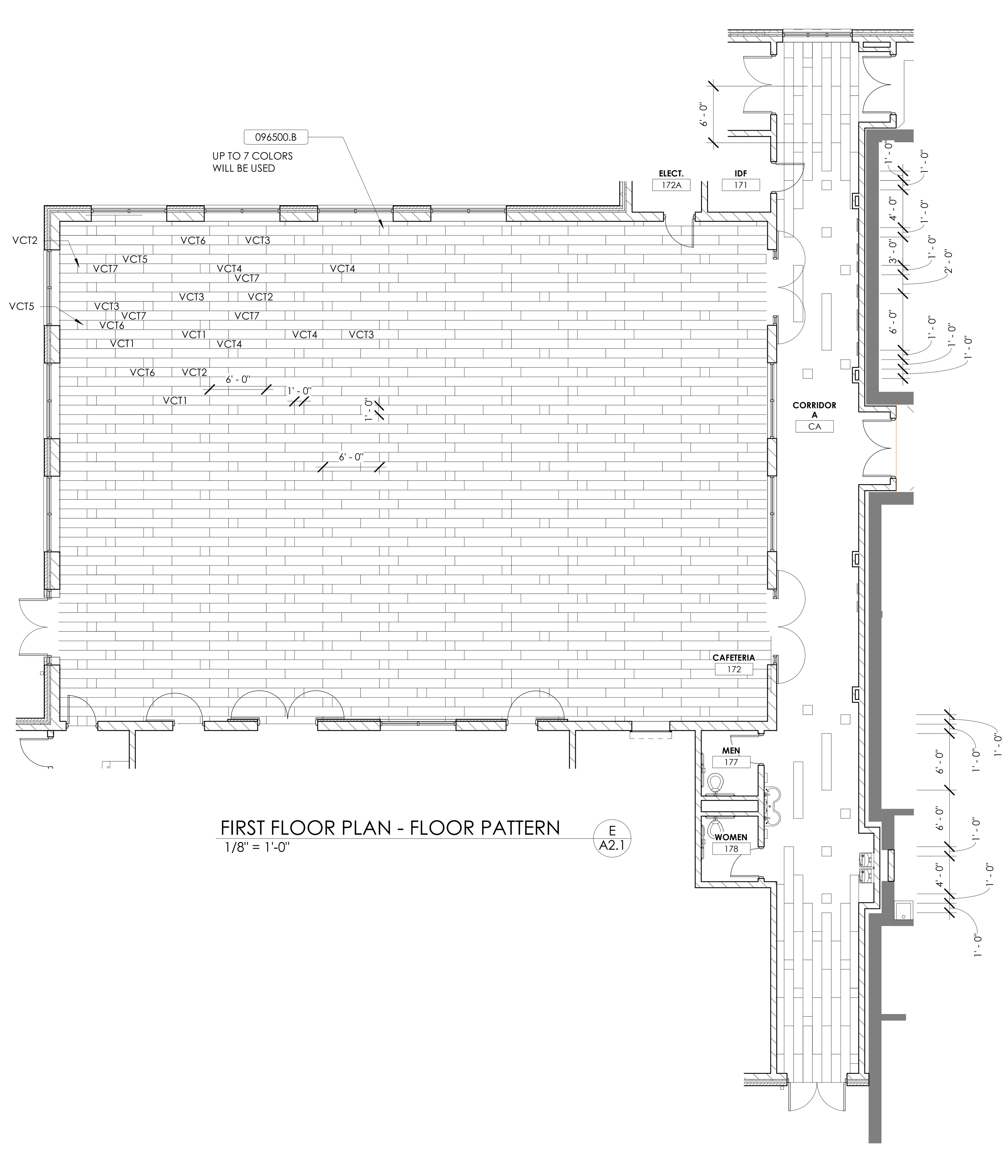
CAFETERIA - PLAN SOUTH (C / A2.1)
1/4" = 1'-0"



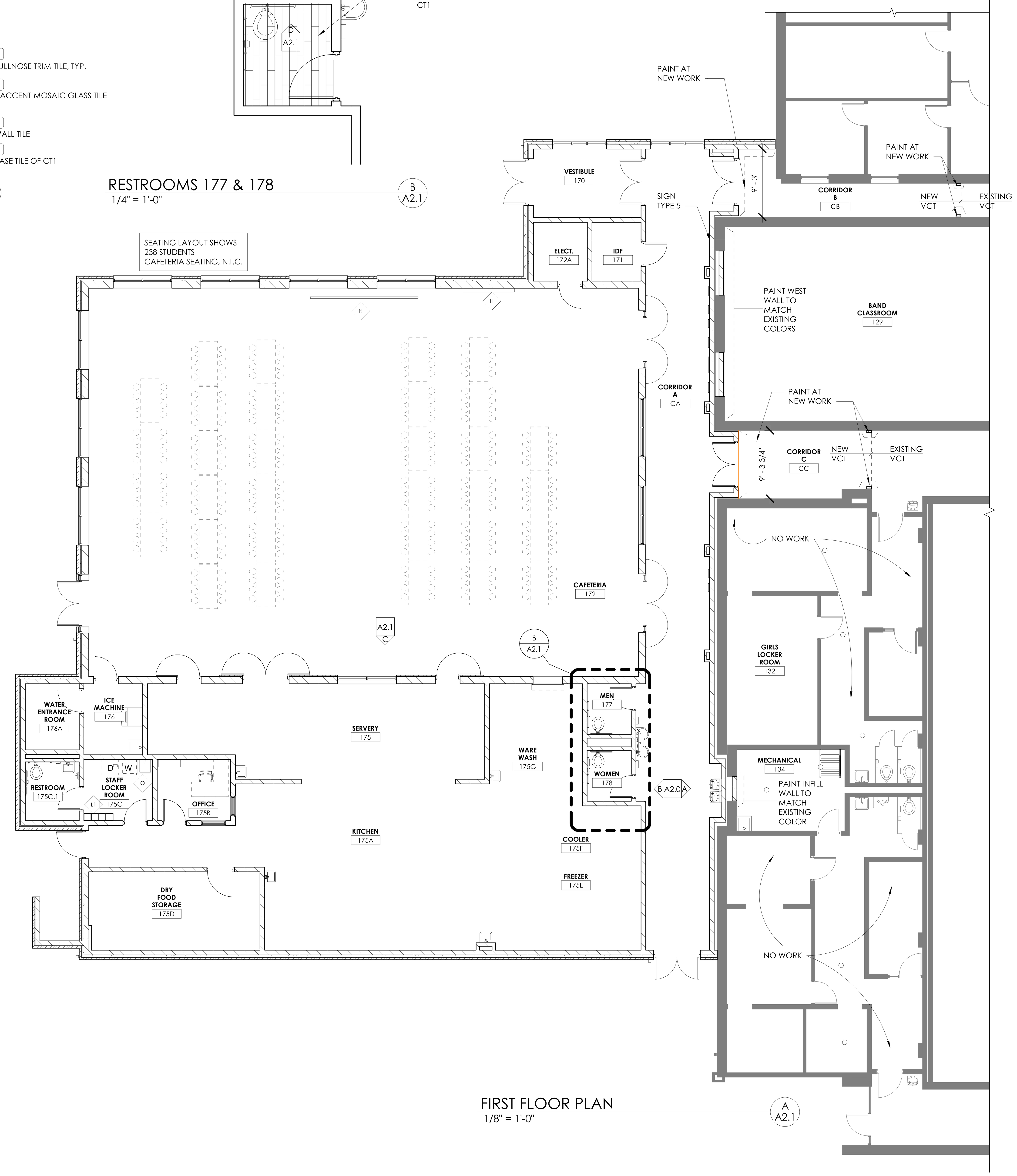
TYPICAL RESTROOM WALL (D / A2.1)
1/4" = 1'-0"



RESTROOMS 177 & 178 (B / A2.1)
1/4" = 1'-0"



FIRST FLOOR PLAN - FLOOR PATTERN (E / A2.1)
1/8" = 1'-0"



FIRST FLOOR PLAN (A / A2.1)
1/8" = 1'-0"

MATERIAL REFERENCE

042000.A	Concrete Masonry Unit
047301.A	Cultured Stone Veneer
064100.A	Custom Casework
093000.A	Ceramic Tile
093000.B	Wall Tile
096500.B	Resilient Tile Flooring
096513.A	Resilient Wall Base & Accessories
101424.B	Letters & Numbers
105000.A	Printed Display Material

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RONALD E. MURRELL JR. REGISTERED No. 4367 COMMONWEALTH OF KENTUCKY ARCHITECT

FLOOR PLANS - INTERIORS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

M,E,&P Engineer:
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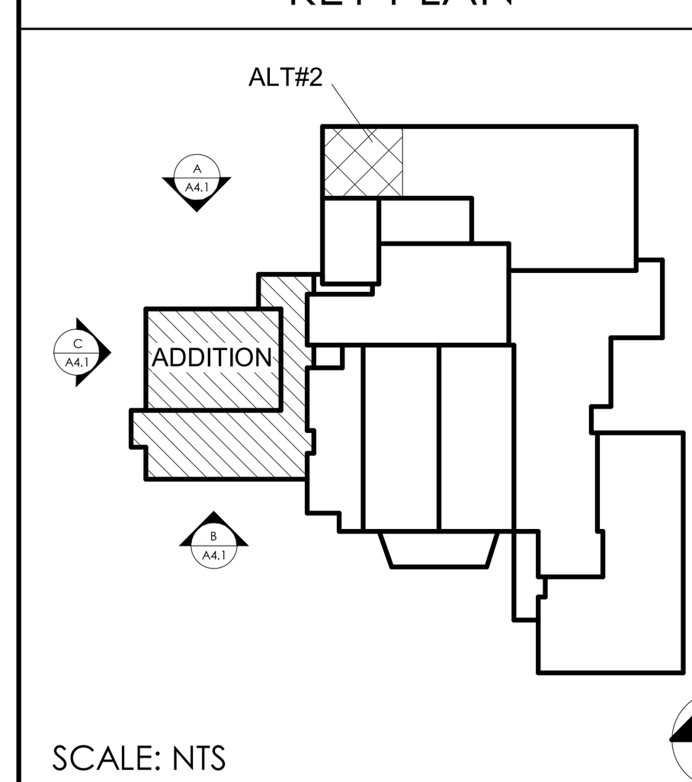
KEY PLAN



SCALE: NTS

BG# 19-262

Project No: 1904
Drawn By: KC
Rev'd By: DC

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CONSTRUCTION DOCUMENTS

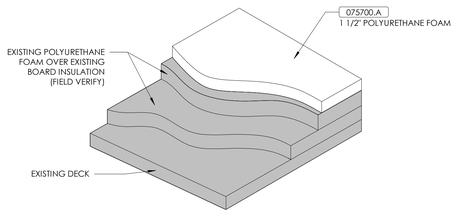
A2.1

FLOOR PLANS - INTERIORS

DATE ISSUED: 9/13/19

REVISIONS

#	DATE	DESCRIPTION



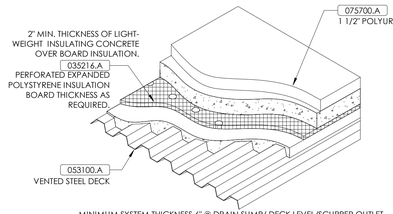
ROOF TYPE 3

MINIMUM SYSTEM THICKNESS 6" @ DRAIN SUMP/ DECK LEVEL/SCUPPER OUTLET - 1 1/2" POLYURETHANE FOAM (075700.A) OVER EXISTING POLYURETHANE FOAM, EXISTING RIGID INSULATION, EXISTING DECK, EXISTING LEVEL STRUCTURE (FIELD VERIFY). FOR GRAPHIC INFORMATION SEE DETAIL ABOVE. REFER TO THE ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO THE SPECIFICATIONS FOR WIND UPLIFT, FIRE RESISTANCE RATINGS, AND WARRANTY REQUIREMENTS.

ROOF TYPE - FOAM AT EXISTING ROOF

N.T.S.

E / A3.1



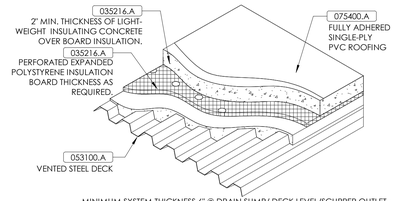
ROOF TYPE 2

MINIMUM SYSTEM THICKNESS 6" @ DRAIN SUMP/ DECK LEVEL/SCUPPER OUTLET - 1 1/2" POLYURETHEN FOAM (075700.A) OVER LIGHTWEIGHT INSULATED CONCRETE, VENTED METAL DECK, LEVEL STRUCTURE (SEE STRUCTURAL). FOR GRAPHIC INFORMATION SEE DETAIL ABOVE. REFER TO THE ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO THE SPECIFICATIONS FOR WIND UPLIFT, FIRE RESISTANCE RATINGS, AND WARRANTY REQUIREMENTS.

ROOF TYPE - FOAM OVER LWIC

N.T.S.

C / A3.1



ROOF TYPE 1

MINIMUM SYSTEM THICKNESS 6" @ DRAIN SUMP/ DECK LEVEL/SCUPPER OUTLET - SINGLE PLY PVC ROOFING SYSTEM (075400) OVER LIGHTWEIGHT INSULATED CONCRETE, VENTED METAL DECK, LEVEL STRUCTURE (SEE STRUCTURAL). FOR GRAPHIC INFORMATION SEE DETAIL ABOVE. REFER TO THE ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO THE SPECIFICATIONS FOR WIND UPLIFT, FIRE RESISTANCE RATINGS, AND WARRANTY REQUIREMENTS.

ROOF TYPE - PVC OVER LWIC

N.T.S.

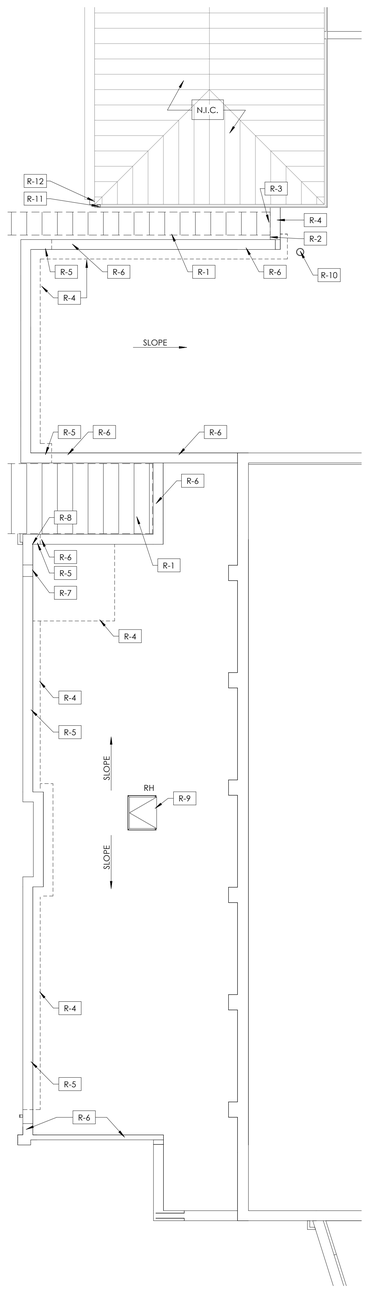
B / A3.1

ROOF DEMOLITION NOTES

1. THESE DEMOLITION PLANS ARE MEANT TO BE A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SHOWN HERE OR NOT.
2. DRAWINGS ARE BASED UPON PARTIAL BUILDING PLANS PROVIDED BY OWNER AND UPON FIELD OBSERVATION.
3. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF THE NEW ROOFING SYSTEM. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
4. THE BUILDING IS TO BE OCCUPIED DURING DEMOLITION AND PLACEMENT OF THE NEW ROOFING SYSTEM. THE OWNER IS TO HAVE COMPLETE USE OF THE FACILITIES EXCEPT FOR LIMITED AREAS AT LIMITED PERIODS OF TIME.
5. COORDINATE REMOVAL AND REINSTALLATION OF ROOF TOP STRUCTURES AND EQUIPMENT WITH OTHERS AS REQUIRED TO INSTALL NEW ROOFING SYSTEM. SEE DETAILS INDICATED ON NEW ROOF PLAN FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL UTILITIES AND DUCTWORK AS REQUIRED TO RECONNECT EQUIPMENT FOR COMPLETE INSTALLATION. ALL MECHANICAL AND ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL, STATE, AND LOCAL BUILDING CODES.
6. THE CONTRACTOR IS TO MAINTAIN BUILDING IN A WEATHER-TIGHT CONDITION AGAINST INCLEMENT WEATHER AT ALL TIMES.
7. ANY ITEM NOT DESIGNATED AS "EXISTING" SHALL BE ASSUMED TO BE NEW.
8. CONTRACTOR IS TO VERIFY ALL EXISTING SLOPES PRIOR TO INSTALLATION OF NEW ROOFING.
9. ALL EXISTING ROOF TOP EQUIPMENT IS TO REMAIN UNLESS OTHERWISE NOTED.

ROOF DEMOLITION NOTES

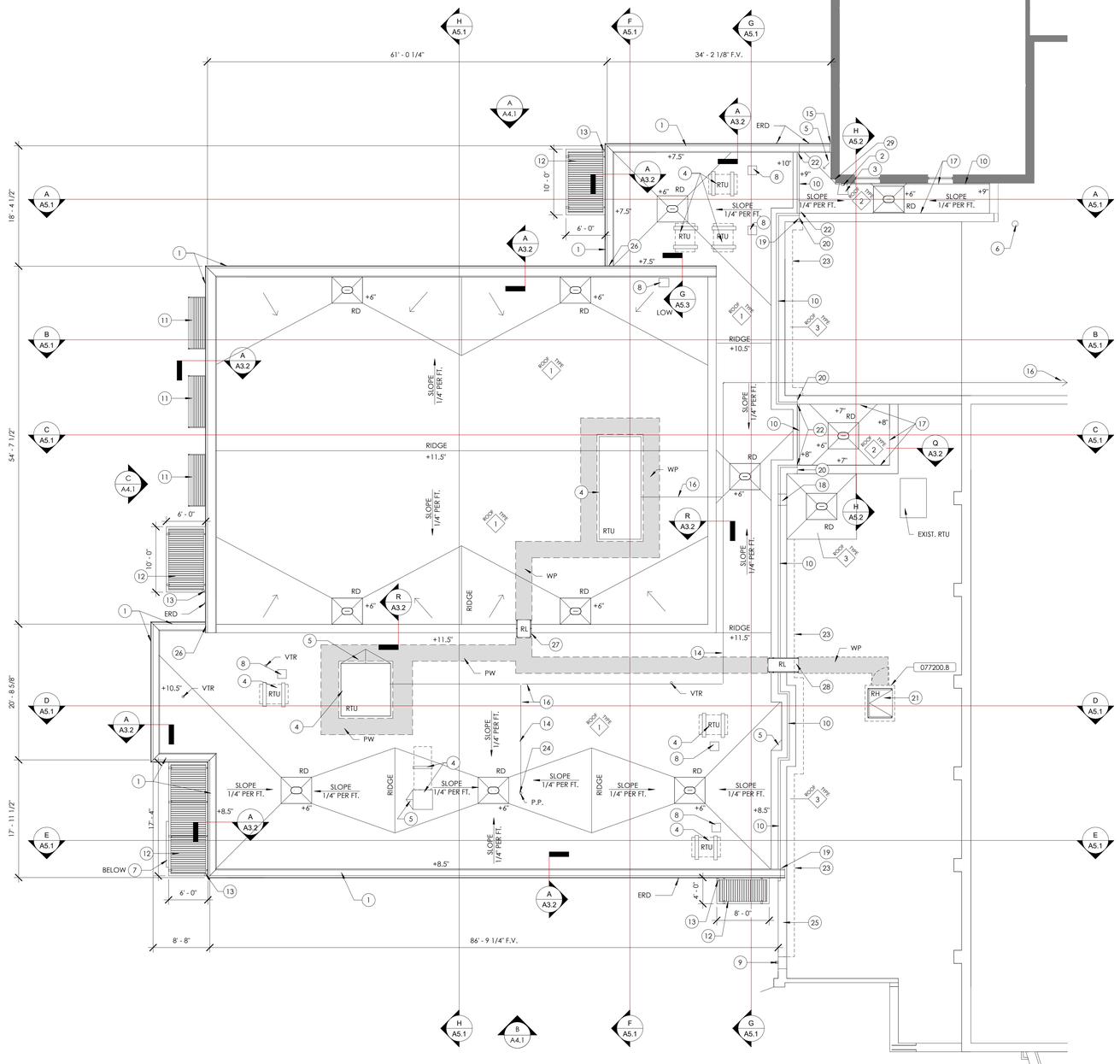
ROOF DEMOLITION CATEGORY:	
R-1	REMOVE EXISTING CANOPY.
R-2	REMOVE EXISTING FASCIA.
R-3	REMOVE EXISTING METAL PANEL.
R-4	SCARIFY AND PREP EXISTING FOAM ROOF FOR TRANSITION INTO NEW WORK. COORDINATE WITH NEW WORK.
R-5	REMOVE EXISTING COPING IN ITS ENTIRETY.
R-6	EXISTING COPING TO REMAIN.
R-7	REMOVE SCUPPER FLASHING & DOWNSPOUT.
R-8	REMOVE ROOF DRAIN.
R-9	EXISTING ROOF HATCH TO REMAIN.
R-10	EXISTING ROOF DRAIN TO REMAIN.
R-11	MODIFY LENGTH OF EXISTING DOWNSPOUT. COORDINATE WITH NEW WORK.
R-12	REMOVE EXISTING BACKER ROD AND CAULK AND PLYWOOD COVER AT CRACKED MASONRY. COORDINATE WITH EXISTING DOWNSPOUT TO REMAIN AND WITH NEW WORK.



ROOF DEMOLITION PLAN

1/8" = 1'-0"

D / A3.1



ROOF PLAN

1/8" = 1'-0"

A / A3.1

MATERIAL REFERENCE

035216.A	Lightweight Concrete Roof Insulation
053100.A	Roof Deck
075400.A	Thermoplastic Membrane Roofing System
075700.A	Coated Foam Roofing System
077200.B	Guardrail

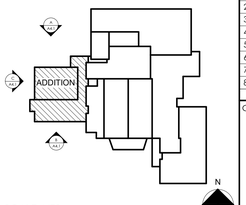
ROOF NOTES

1	FASCIA. SEE DETAIL A/A3.2
2	EXISTING DOWNSPOUT. MODIFY LENGTH AND COORDINATE WITH NEW ADDITION.
3	PROVIDE WALK PAD UNDER DOWNSPOUT.
4	ROOFTOP MECHANICAL EQUIPMENT CURB. SEE MEP AND DETAIL B/A3.2
5	CRICKET/SADDLE SLOPED TO 1/4" PER 1'-0" FOR POSITIVE DRAINAGE.
6	EXISTING ROOF DRAIN TO REMAIN.
7	COPING AT CAN WASH WALLS.
8	PIPING CURB.
9	EXISTING SCUPPER AND COLLECTOR BOX TO REMAIN. REFER TO SITE DRAWINGS FOR CONTINUATION.
10	EXPANSION JOINT. REFER TO SECTIONS ON A5.2.
11	SUNSHADE. SEE DETAIL M/A6.2 AND N/A6.2. REFER TO STOREFRONT/CURTAINWALL SPECIFICATION.
12	PREMANUFACTURED WALL HUNG CANOPY. SEE DETAILS E/A3.2 AND J/A3.2. 3'x5' OVER SINGLE DOORS; 3'x8' OVER DOUBLE DOORS U.N.O.
13	PREMANUFACTURED CANOPY DOWNSPOUT. (107300) REFER TO SITE DRAWINGS FOR CONTINUATION.
14	PIPE SUPPORTS. SEE DETAIL K/A3.2. REFER TO PLUMBING SHEET.
15	SEE DEATAIL L/A3.2
16	GAS LINE. SEE MEP DRAWINGS.
17	SILICONE COAT BRICK WALL AND COPING WITH ROOF TYPE 3. DO NOT SEAL EXISTING VENT.
18	SCUPPER INFILL WITH WOOD STUDS BLOCKING ; GYPSUM BOARD TO SUPPORT ROOF TYPE 3.
19	NEW TRANSITION DETAIL SEE P/A3.2
20	EXISTING COPING TO REMAIN. TRANSITION ROOF TYPE 2 FROM EXISTING COPING TO NEW ROOF TYPE 2 FOAM STOP.
21	REPAIR EXISTING HANDLE AND PROVIDE HASP AT EXISTING ROOF HATCH.
22	VERTICAL EXPANSION JOINT (077100.E). SEE DETAIL L/A3.2
23	PROVIDE NEW FOAM AND COPING TO TRANSITION AT NEW EXPANSION JOINT. (075700.A). SEE DETAIL P/A3.2.
24	P.P. PITCH POCKET. SEE DETAIL M/A3.2.
25	NEW COPING TO MATCH WITH EXISTING.
26	SADDLE FLASHING. SEE DETAIL N/A3.2
27	ROOF LADDER. SEE DETAIL D/A3.2.
28	ROOF LADDER. SEE DETAIL H/A3.2.
29	PROVIDE WOOD BLOCKING AND PREFINISHED SHEET METAL TO COVER OPENING AT THE TOP OF THE EXISTING MASONRY WALL. PROVIDE BACKER ROD AND CAULK AT REMAINING EXISTING OPENING.

ROOF LEGEND

RD	ROOF DRAIN. SEE ROOF DRAIN DETAIL A3.2.	
ERD	EMERGENCY ROOF DRAIN. SEE EMERGENCY ROOF DRAIN DETAIL A3.2.	
RL	ROOF LADDER. SEE ROOF LADDER DETAIL A3.2.	
RH	ROOF HATCH. EXISTING TO REMAIN.	
WP	WALKWAY PAD.	
VTR	VENT THROUGH ROOF. SEE DETAIL A3.2. COORDINATE WITH MECHANICAL DWGS.	
RTU	ROOF TOP UNIT, SEE MECHANICAL, ELECTRICAL, & FOOD SERVICE DRAWINGS.	

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.6018

RONALD E. MURRELL — LICENSED ARCHITECT — COMMONWEALTH OF KENTUCKY

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

ROOF PLAN

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	BB
Rev'd By:	RM

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CONSTRUCTION DOCUMENTS

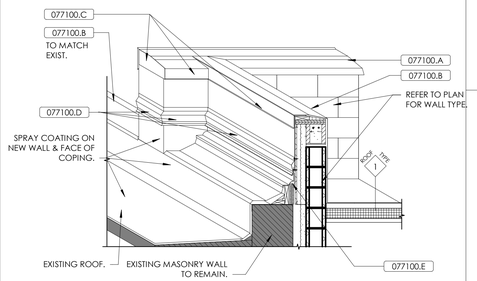
A3.1

ROOF PLAN

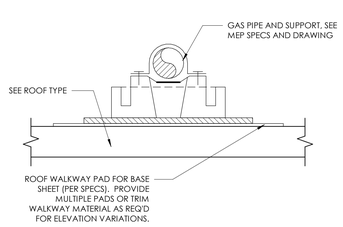
DATE ISSUED:
9/13/19

REVISIONS

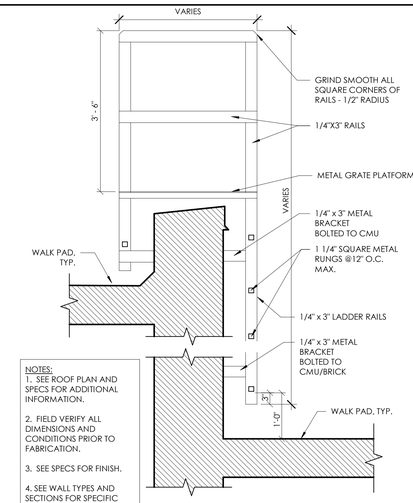
#	DATE	DESCRIPTION



ROOF TO WALL EXP. JT. DETAIL
N.T.S.
P A3.2



GAS PIPING SUPPORT
N.T.S.
K A3.2

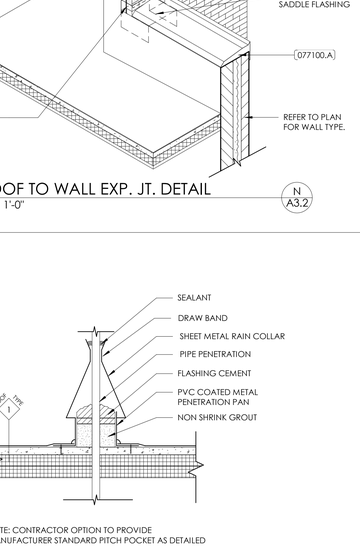


NOTES:
1. SEE ROOF PLAN AND SPECS FOR ADDITIONAL INFORMATION.
2. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION.
3. SEE SPECS FOR FINISH.
4. SEE WALL TYPES AND SECTIONS FOR SPECIFIC WALL CONSTRUCTION.

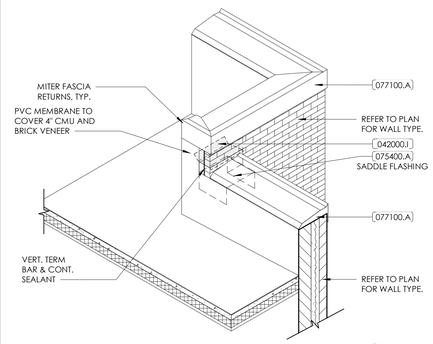
ROOF LADDER DETAIL
N.T.S.
D A3.2

MATERIAL REFERENCE

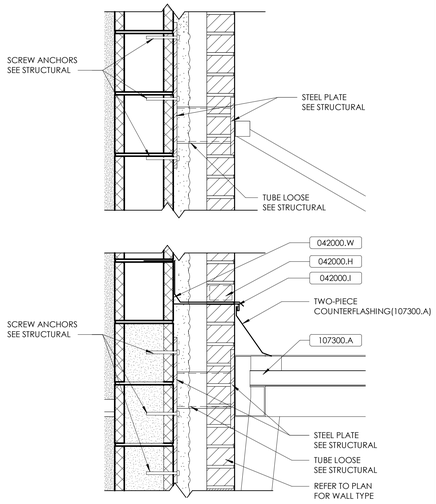
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.W	Thru-Wall Flashing Support
051200.A	Structural Steel Member
061000.A	Wood Blocking
061000.B	Plywood Sheathing
075400.A	Thermoplastic Membrane Roofing System
075400.B	Termination Bar
075400.C	Tapered Edge Strip
075700.A	Coated Foam Roofing System
076200.H	Skirt Flashing
077100.A	Fascia
077100.B	Coping
077100.C	Drip Edge
077100.D	Reglet/Counter Flashing
077100.E	Expansion Joint
107300.A	Column Supported Metal Canopy
107300.B	Wall Hung Metal Canopy



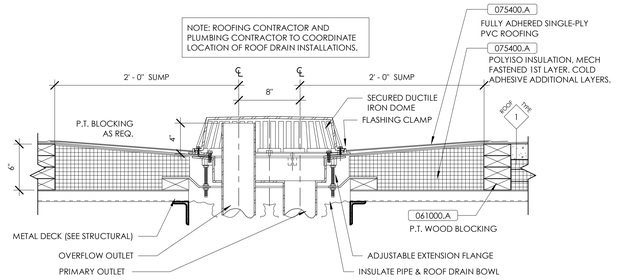
PARAPET DETAIL
1 1/2" = 1'-0"
R A3.2



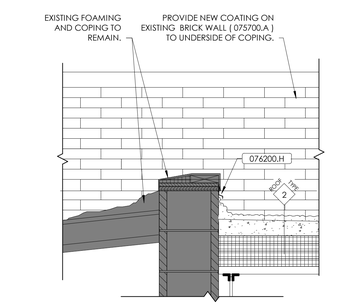
ROOF TO WALL EXP. JT. DETAIL
1" = 1'-0"
N A3.2



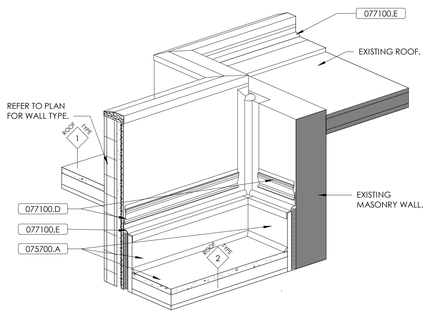
CANOPY -WALL DETAIL
1 1/2" = 1'-0"
J A3.2



ROOF DRAIN DETAIL
N.T.S.
C A3.2



ROOF TO WALL TRANSITION
N.T.S.
Q A3.2



ROOF TO WALL EXP. JT. DETAIL
N.T.S.
L A3.2

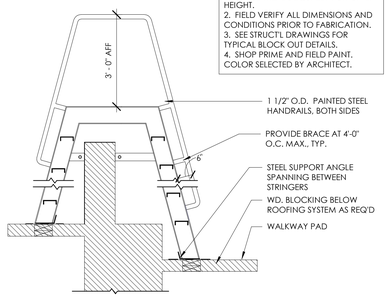
NOTE: CONTRACTOR OPTION TO PROVIDE MANUFACTURER STANDARD PITCH POCKET AS DETAILED

PITCH POCKET DETAIL
1 1/2" = 1'-0"
M A3.2

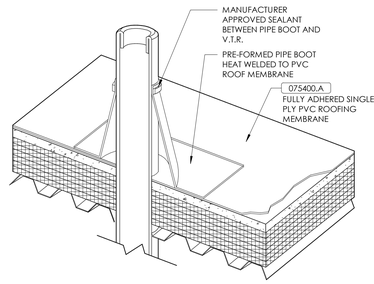
NOTE:
HGT OF PARAPET LADDER:

ROOF: 3'-10" (F.V.)

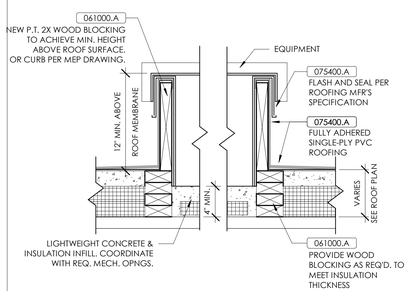
NOTES:
1. SPACE TREADS EQUALLY FOR GIVEN HEIGHT.
2. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION.
3. SEE STRUCT'L DRAWINGS FOR TYPICAL BLOCK OUT DETAILS.
4. SHOP PRIME AND FIELD PAINT. COLOR SELECTED BY ARCHITECT.



PARAPET LADDER DETAIL
1/2" = 1'-0"
H A3.2



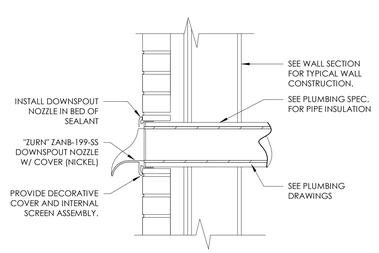
TYP. VENT THRU ROOF
N.T.S.
F A3.2



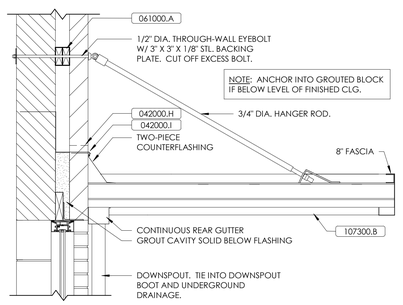
CURB DETAIL
N.T.S.
B A3.2

ROOF TO WALL TRANSITION
N.T.S.
Q A3.2

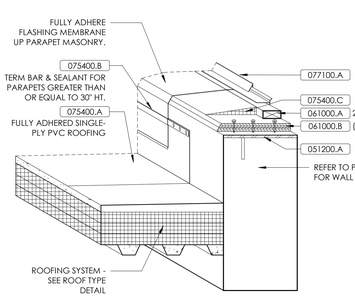
ROOF TO WALL EXP. JT. DETAIL
N.T.S.
L A3.2



EMERGENCY OVERFLOW DETAIL
N.T.S.
G A3.2



ALUMINUM CANOPY DETAIL
N.T.S.
E A3.2



PARAPET DETAIL PVC AND FASCIA
N.T.S.
A A3.2

rosstarrant architects
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RONALD E. MURRELL
REGISTERED
No. 4301
COMMONWEALTH OF KENTUCKY
ARCHITECT

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

ROOF DETAILS

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Structural Engineer:
Structural Design Group, Inc.
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p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: BB
Rev'd By: RM

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CONSTRUCTION DOCUMENTS

A3.2

ROOF DETAILS

DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION

MATERIAL REFERENCE

042000.B	Face Brick
042000.C	Split Face CMU
044200.A	Stone Cladding
055000.B	Roof Ladder
077100.A	Fascia
077100.B	Coping
077100.E	Expansion Joint
079005.A	Joint Sealant
079513.A	Joint Covers
084313.E	Storefront Sunshade
101424.B	Letters & Numbers
107300.B	Wall Hung Metal Canopy

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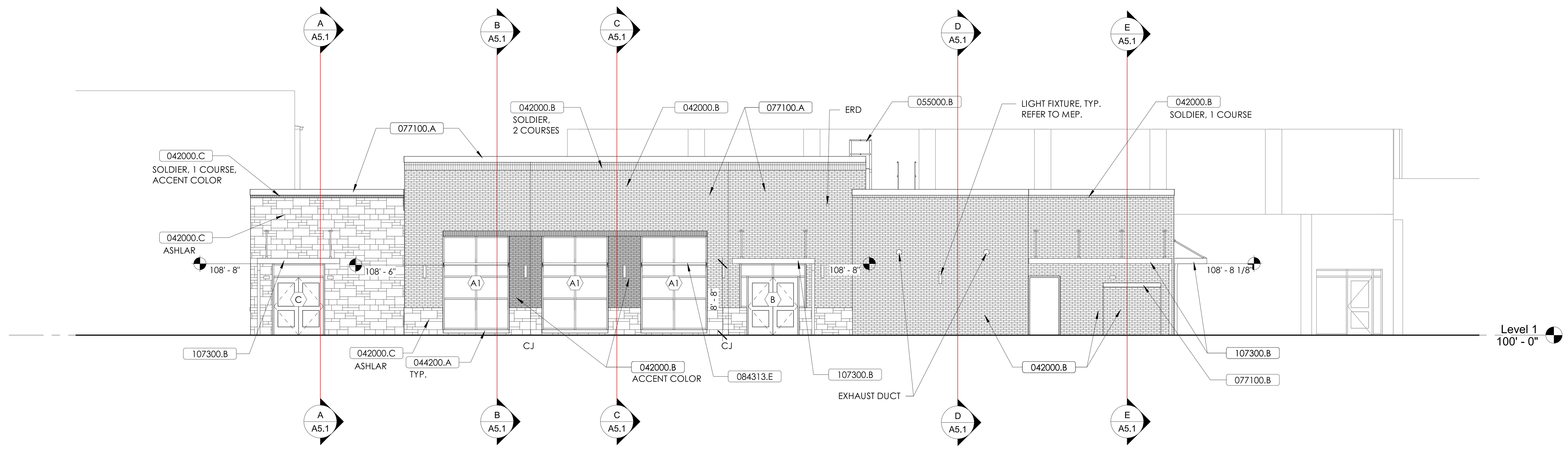
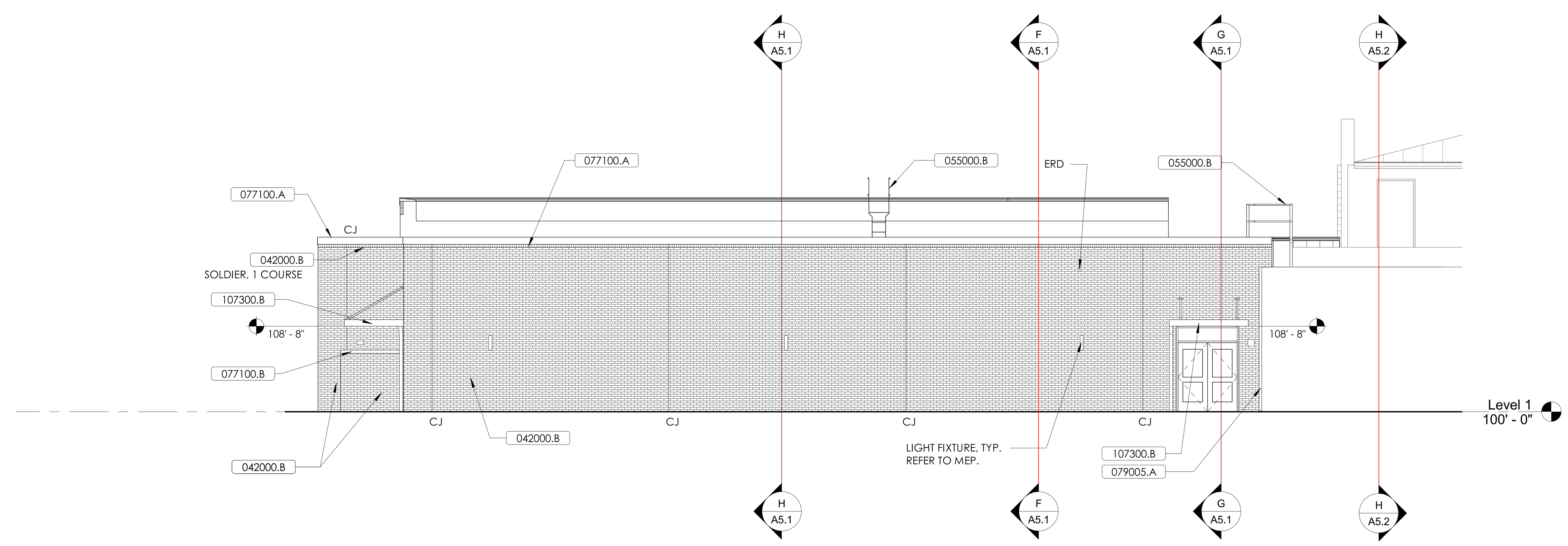
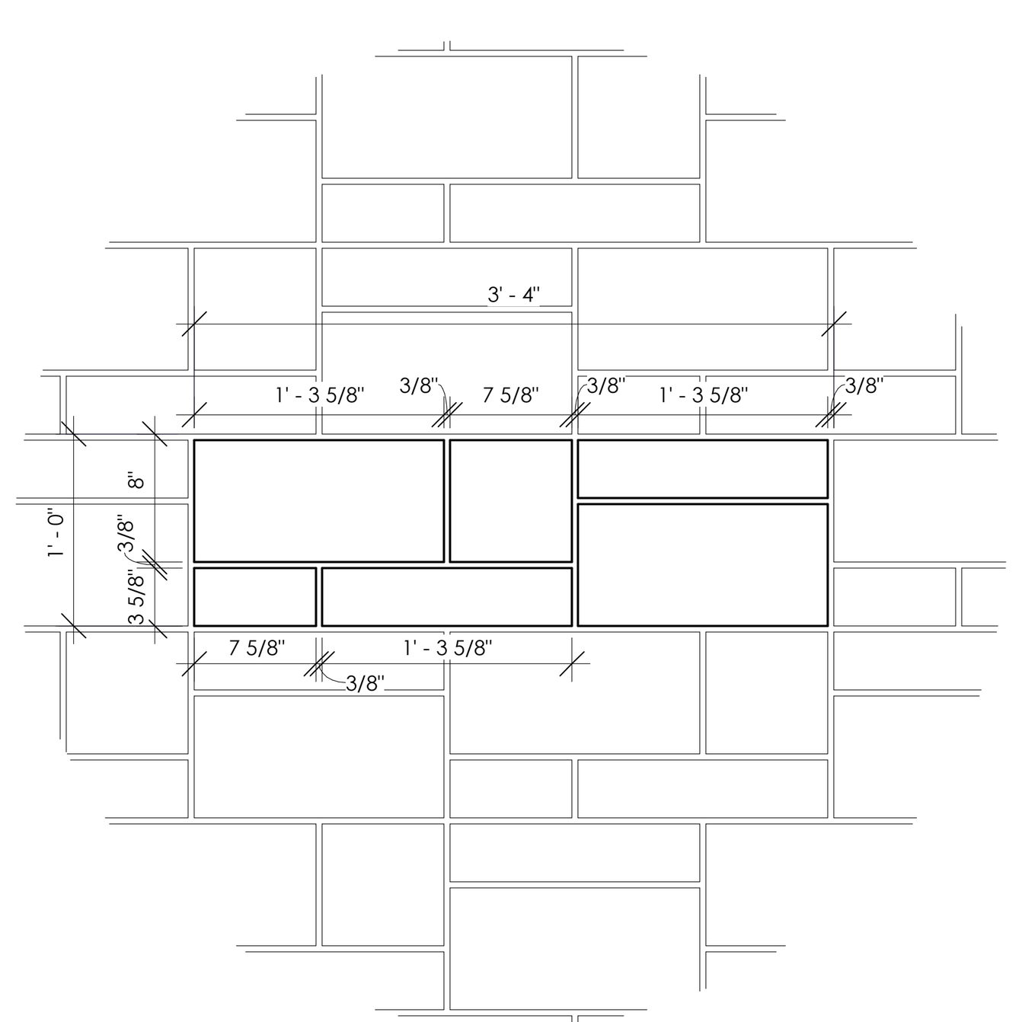


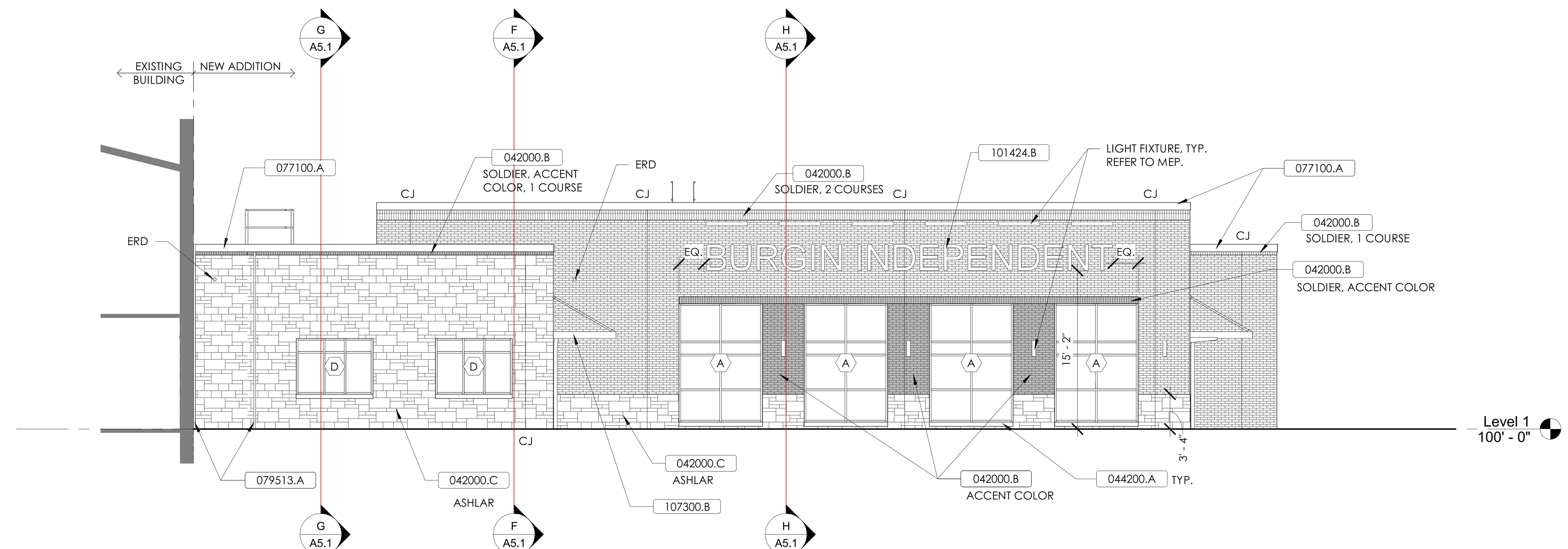
WEST ELEVATION
1/8" = 1'-0"
C A4.1

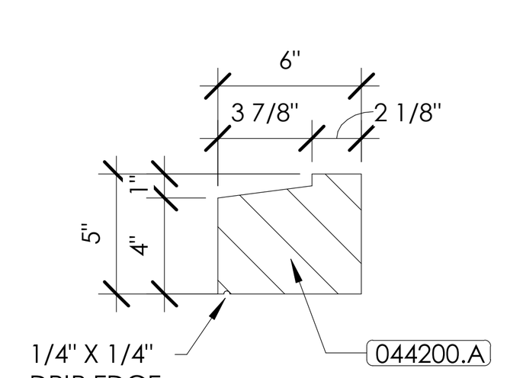


SOUTH ELEVATION
1/8" = 1'-0"
B A4.1



ASHLAR PATTERN
1" = 1'-0"
E A4.1





LIMESTONE SILL DETAIL
1 1/2" = 1'-0"
D A4.1

NORTH ELEVATION
1/8" = 1'-0"
A A4.1

BUILDING ELEVATIONS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
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Lexington, KY 40504
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Structural Engineer:
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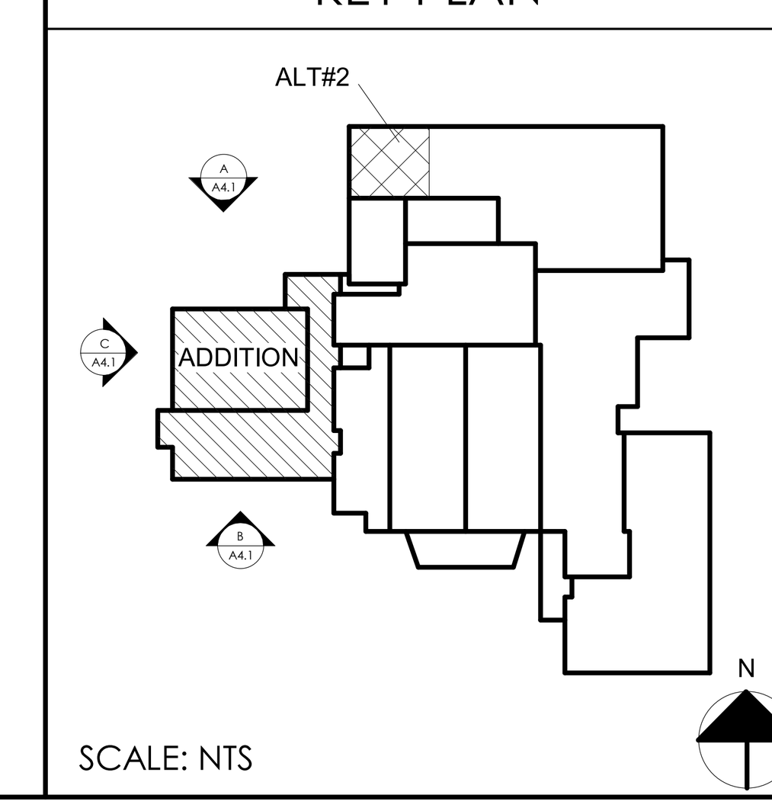
p 615.255.5537

KEY PLAN



SCALE: NTS

BG# 19-262
Project No: 1904
Drawn By: BB
Rev'd By: RM

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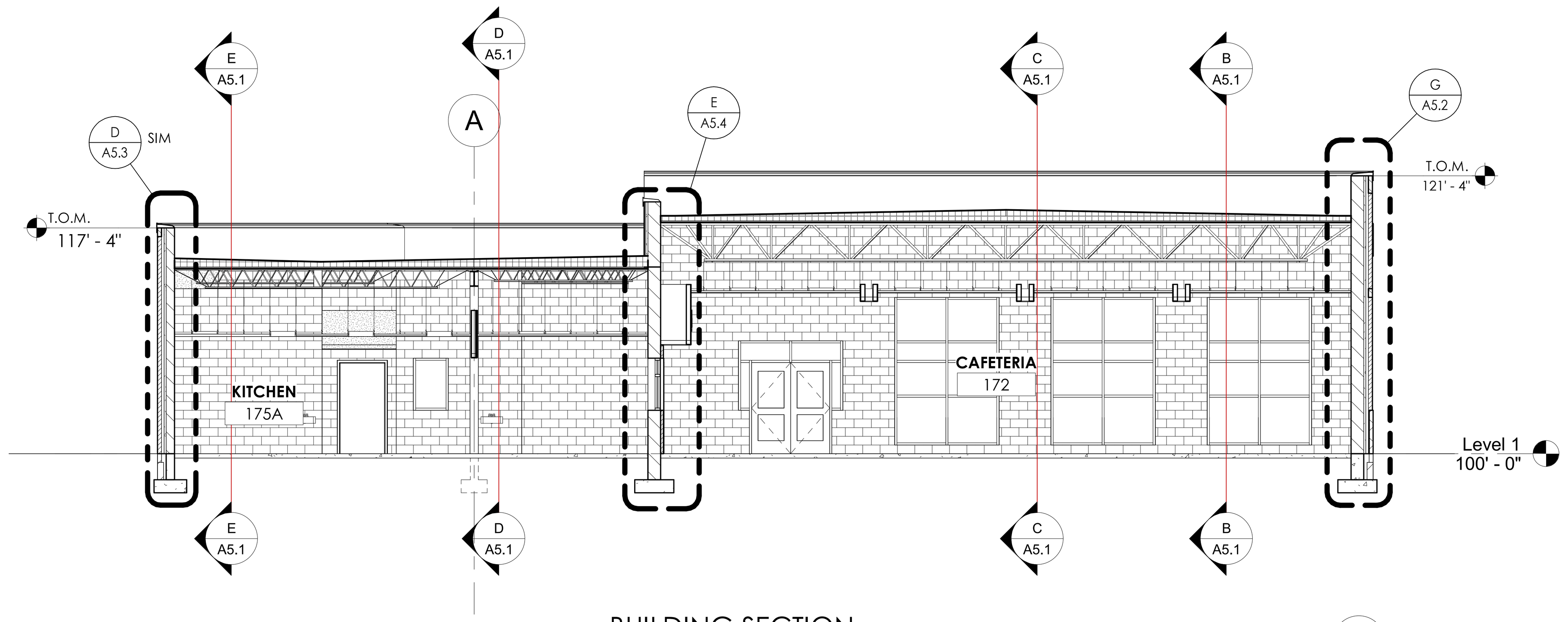
CONSTRUCTION DOCUMENTS

A4.1

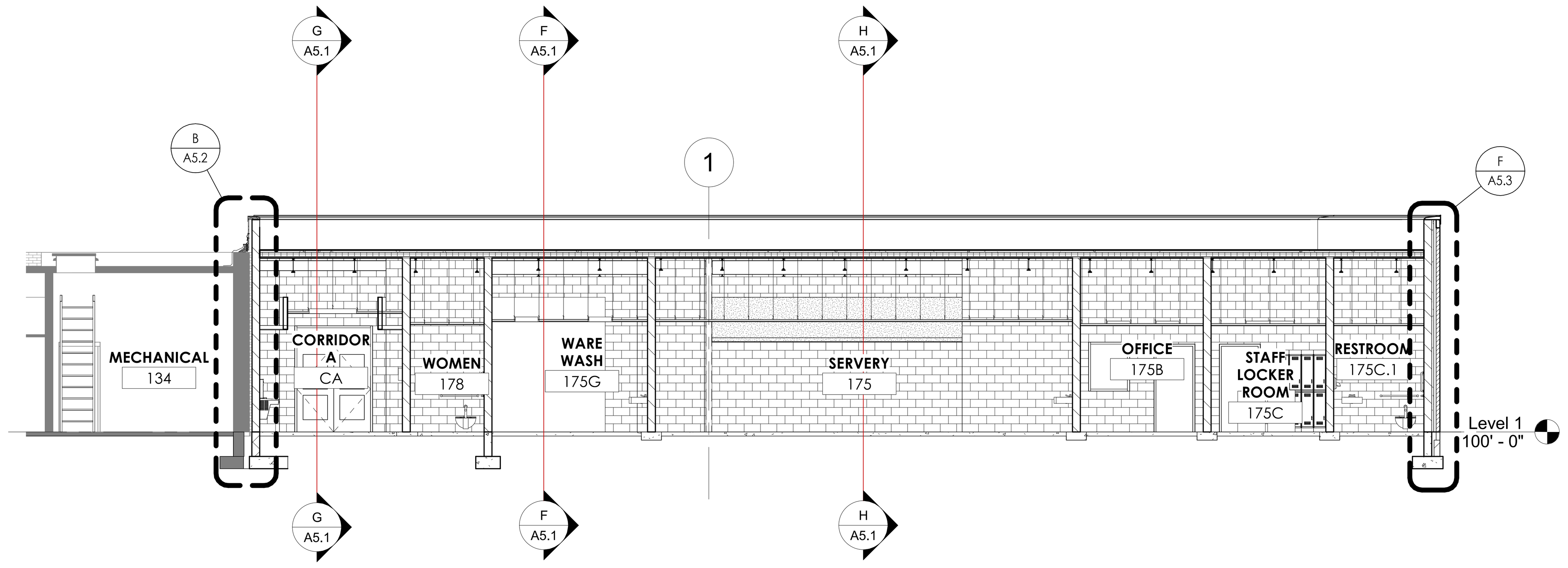
BUILDING ELEVATIONS

DATE ISSUED:
9/13/19

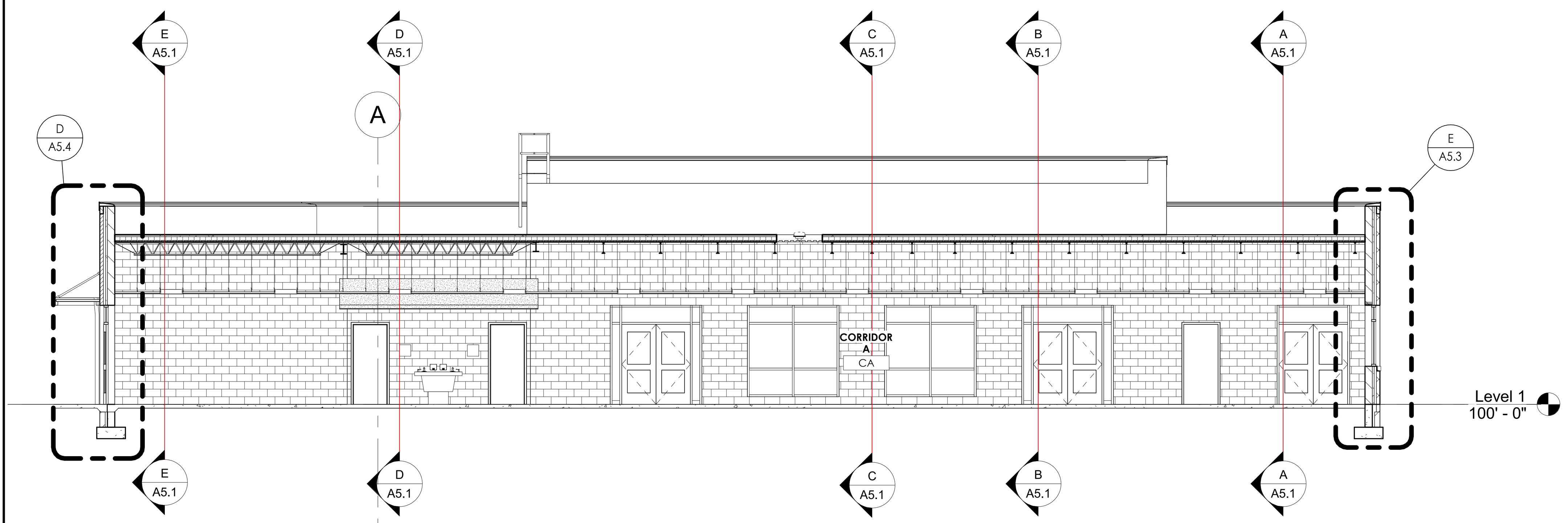
REVISIONS		
#	DATE	DESCRIPTION



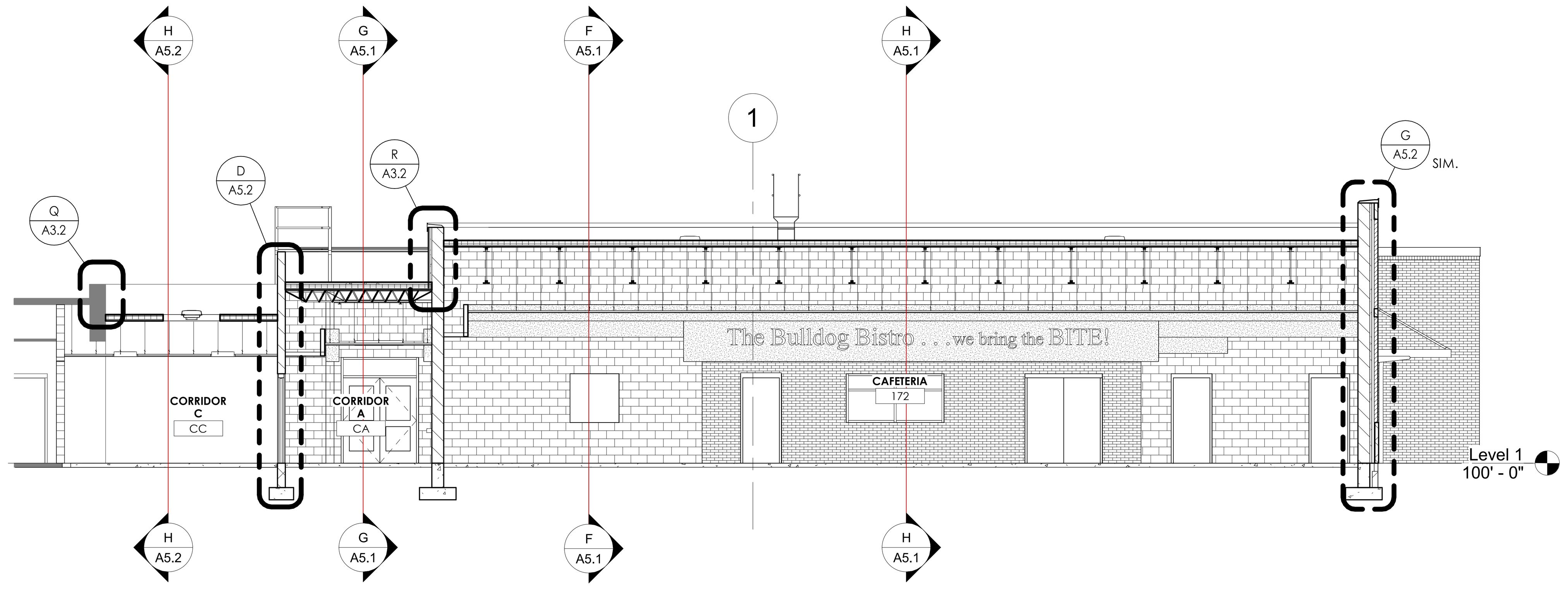
BUILDING SECTION
1/8" = 1'-0"
H
A5.1



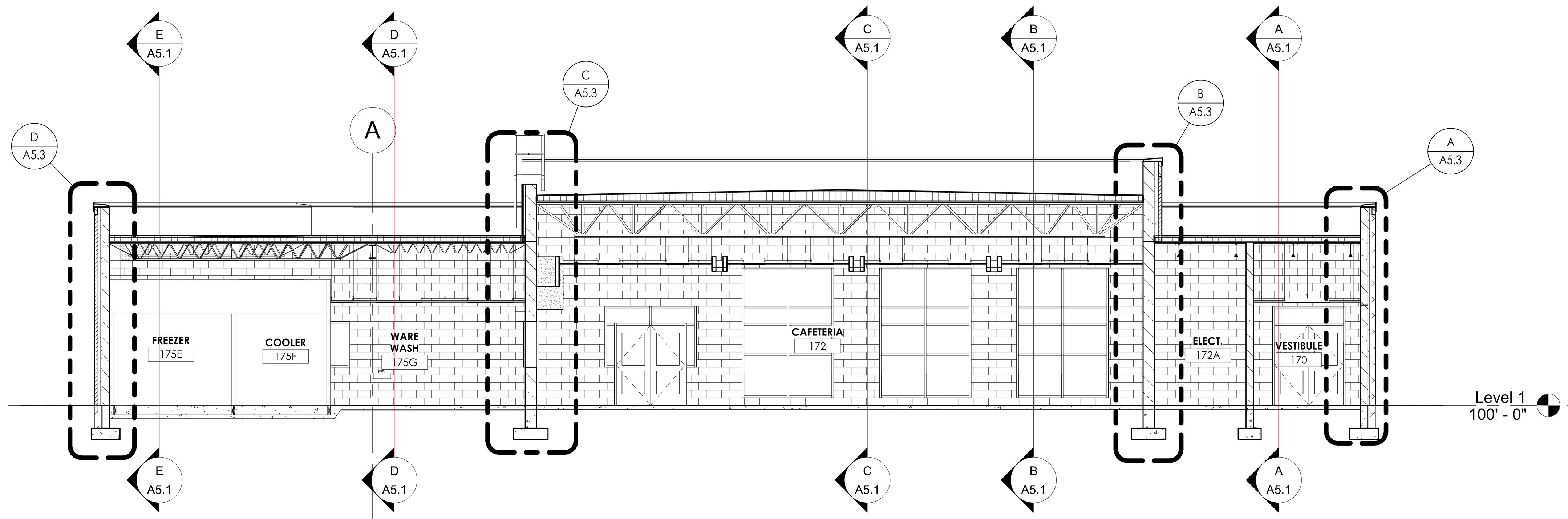
BUILDING SECTION
1/8" = 1'-0"
D
A5.1



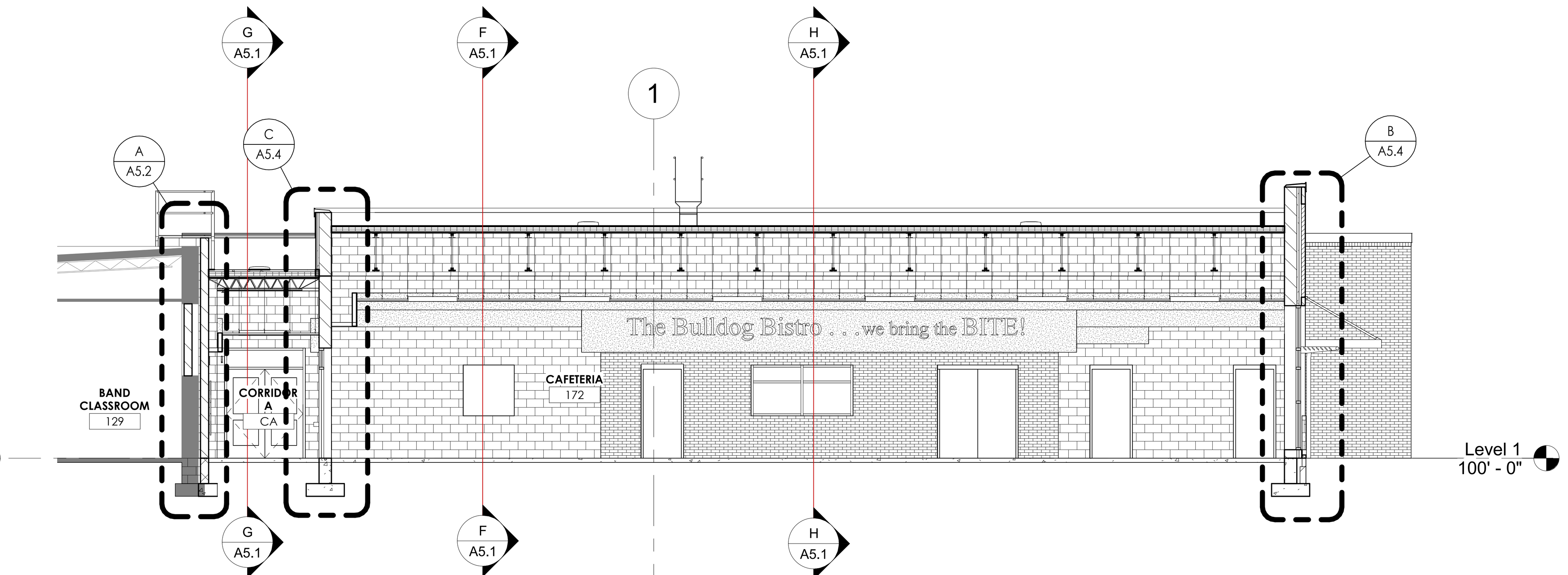
BUILDING SECTION
1/8" = 1'-0"
G
A5.1



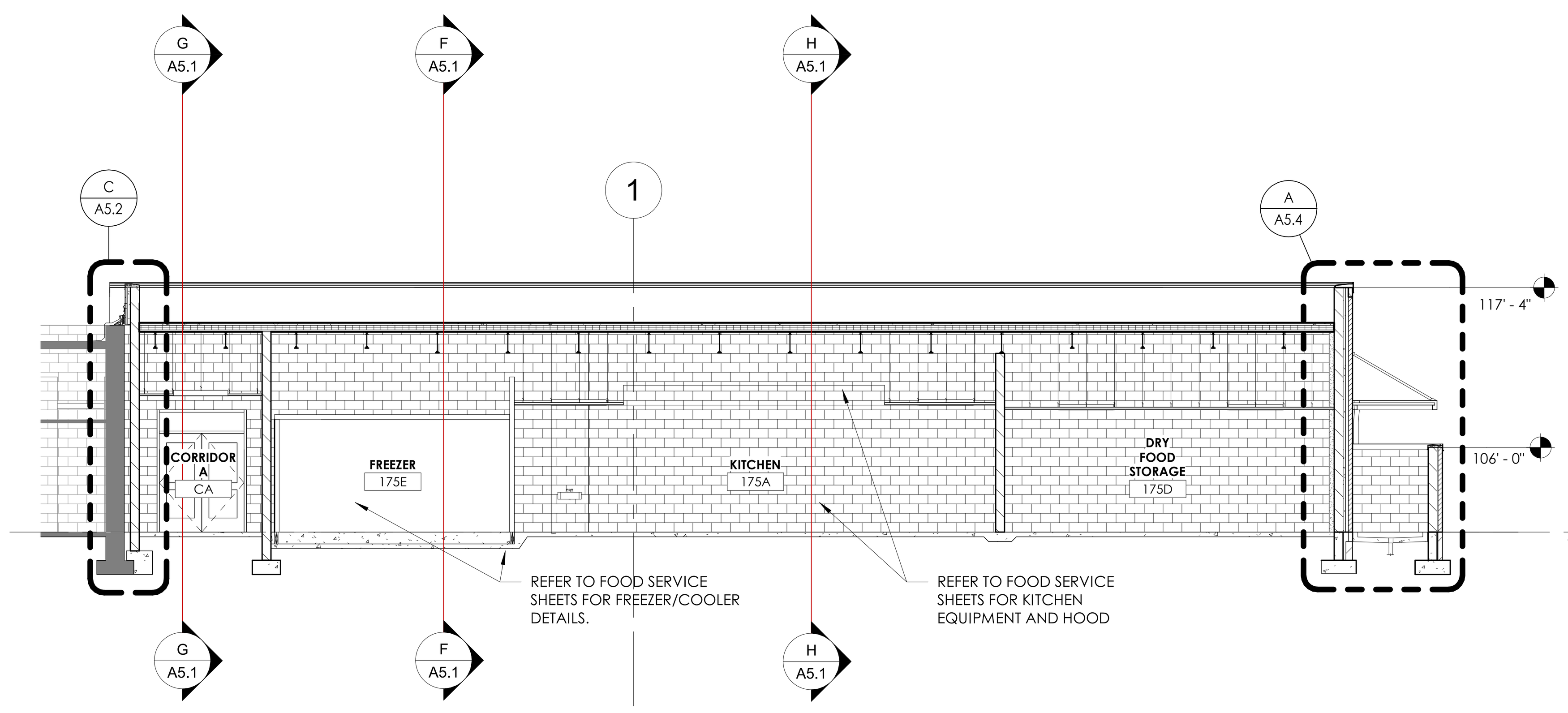
BUILDING SECTION
1/8" = 1'-0"
C
A5.1



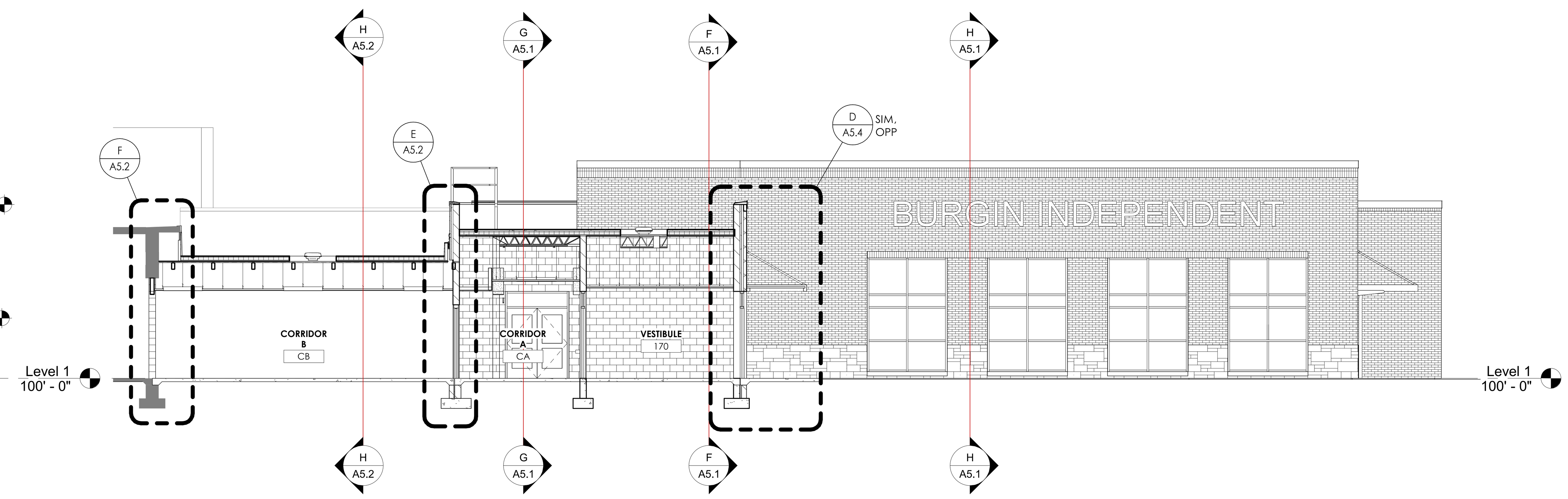
BUILDING SECTION
1/8" = 1'-0"
F
A5.1



BUILDING SECTION
1/8" = 1'-0"
B
A5.1



BUILDING SECTION
1/8" = 1'-0"
E
A5.1



BUILDING SECTION
1/8" = 1'-0"
A
A5.1

MATERIAL REFERENCE

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL
COMMONWEALTH OF KENTUCKY
ARCHITECT

BUILDING SECTIONS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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Structural Engineer:
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BG# 19-262

Project No: 1904
Drawn By: BB
Rev'd By: RM

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CONSTRUCTION DOCUMENTS

A5.1

BUILDING SECTIONS

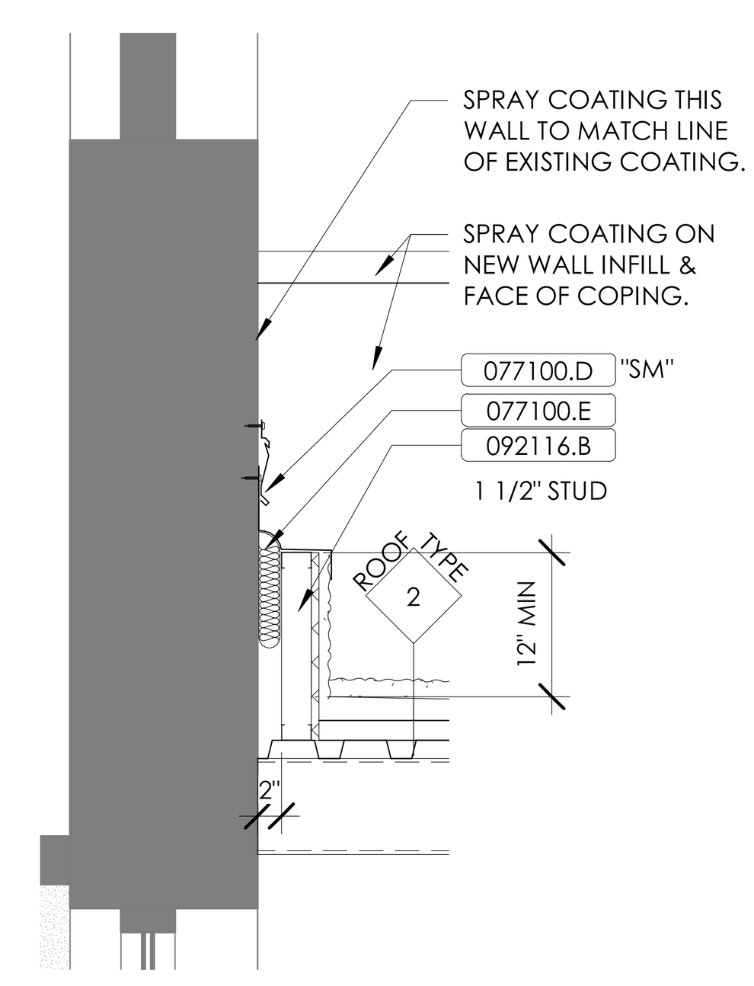
DATE ISSUED:
9/13/19

REVISIONS

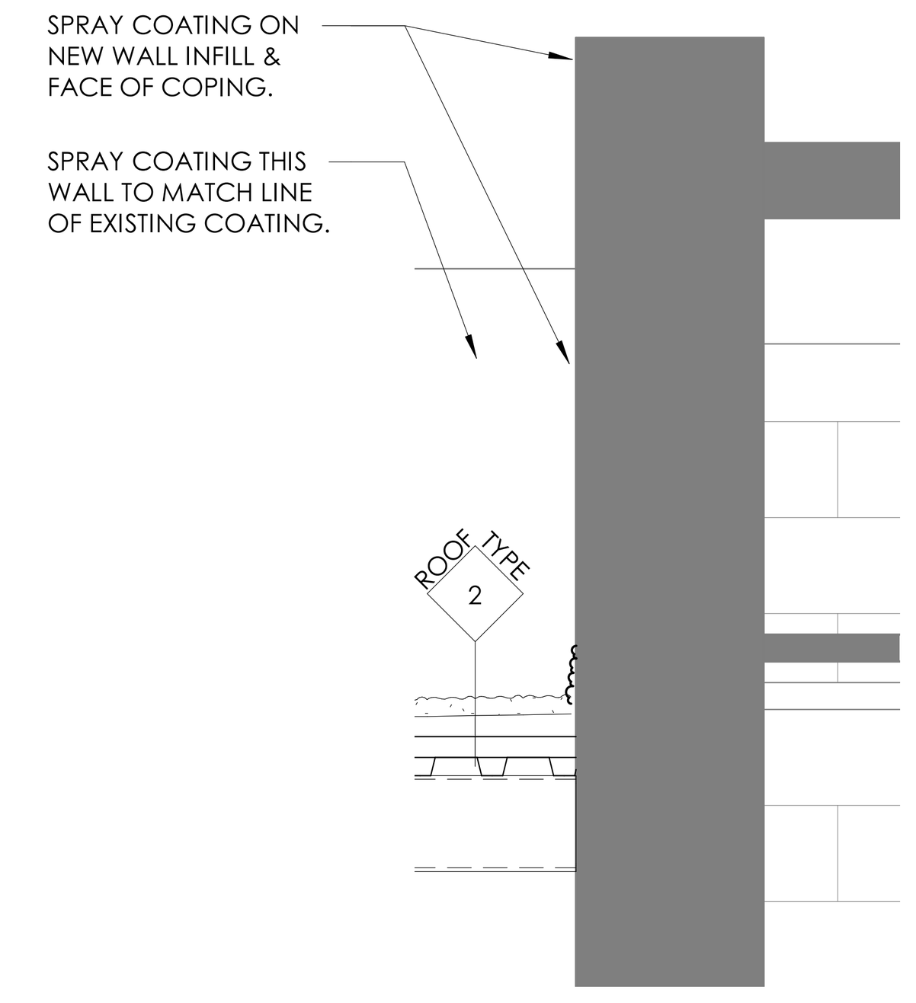
#	DATE	DESCRIPTION
1	XX/XX/XXXX	ADDENDUM #1

MATERIAL REFERENCE

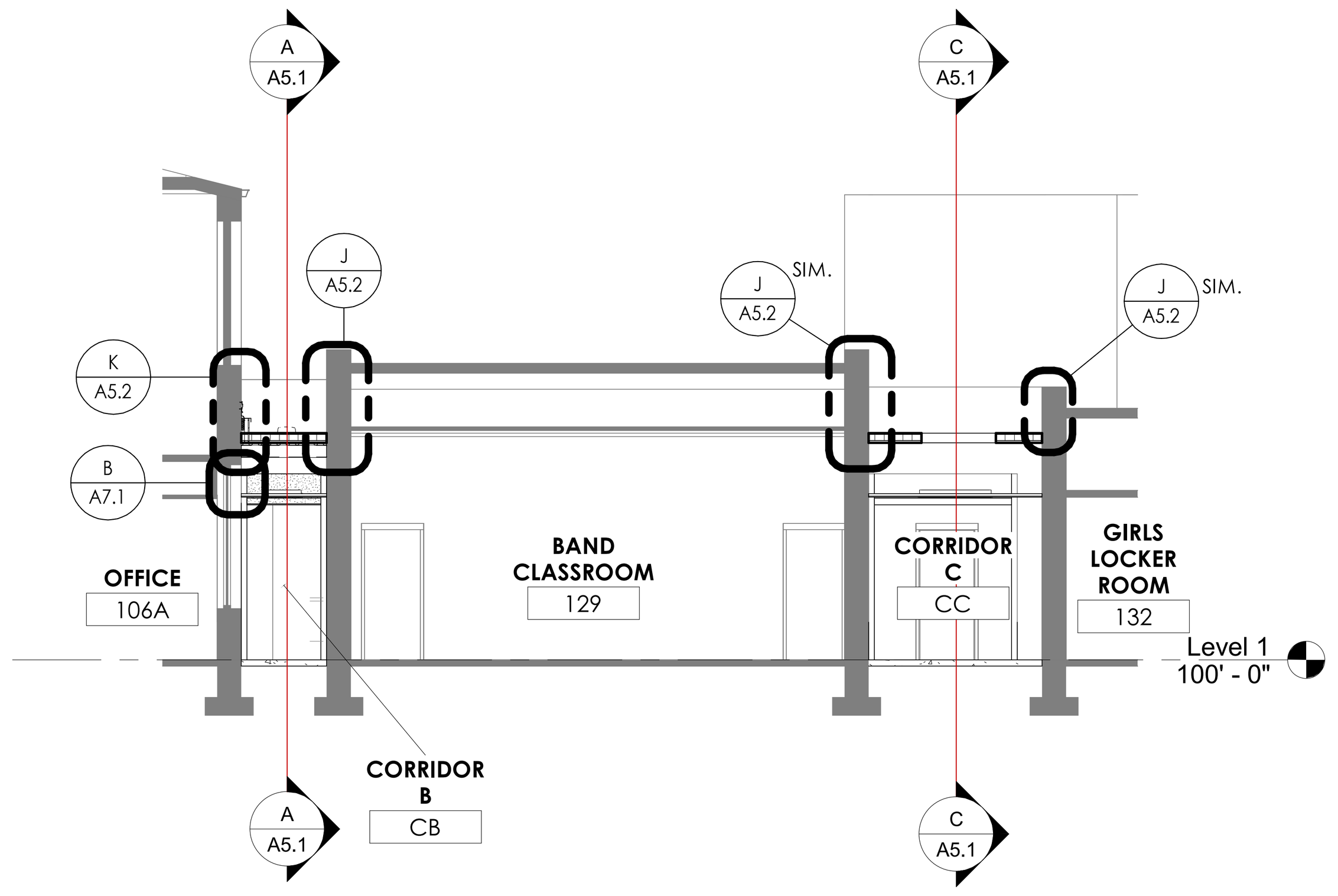
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.C	Split Face CMU
061000.A	Wood Blocking
075400.A	Thermoplastic Membrane Roofing System
075400.F	Drip Edge
075700.A	Coated Foam Roofing System
076200.H	Skirt Flashing
077100.C	Drip Edge
077100.D	Reglet/Counter Flashing
077100.E	Expansion Joint
079513.A	Joint Covers
092116.A	Gypsum Board Assemblies
092116.B	Metal Studs and Runners
092116.N	Exterior Gypsum Roof Board
095113.A	Acoustical Panel Ceiling System



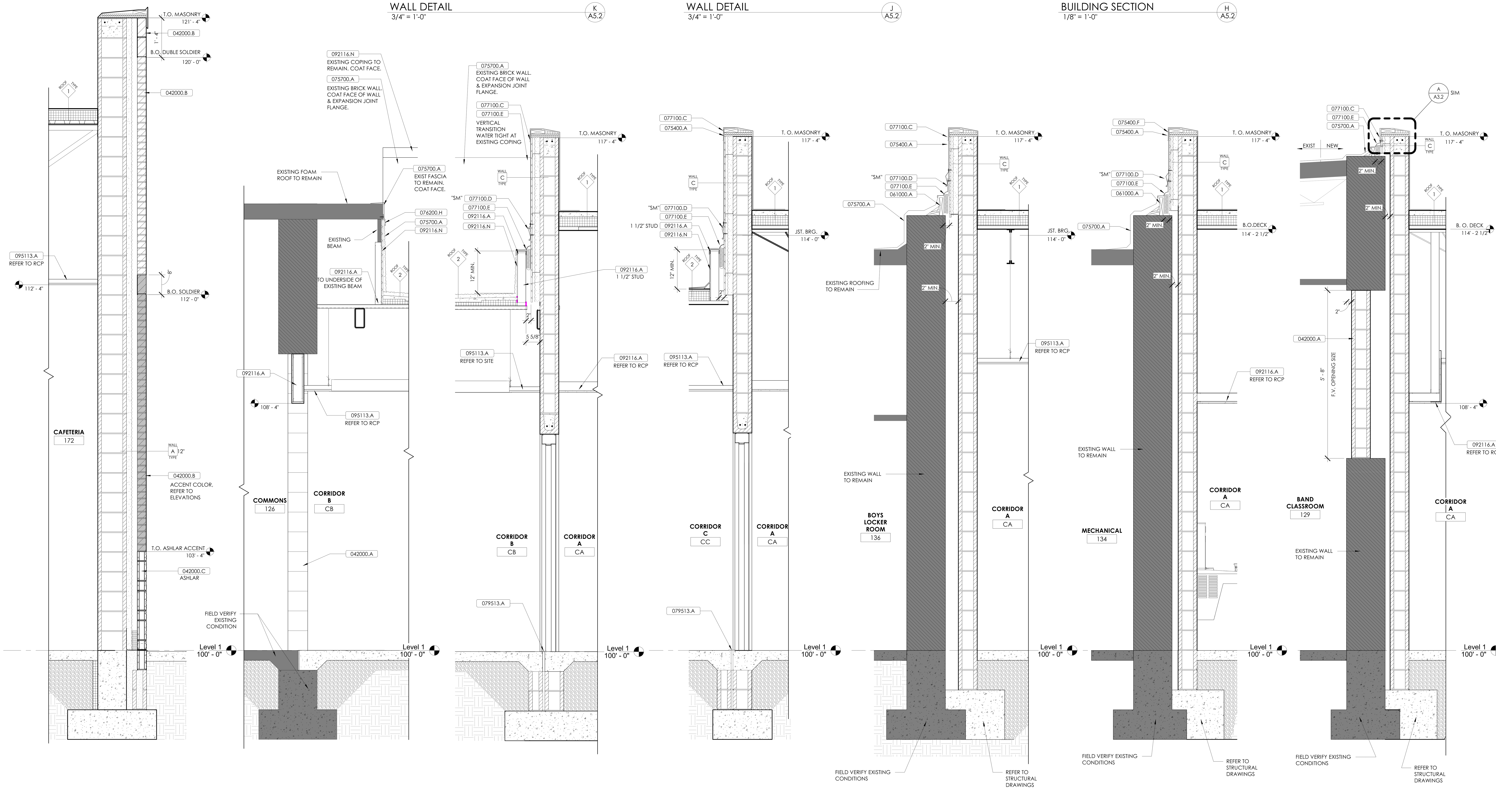
WALL DETAIL K A5.2
3/4" = 1'-0"



WALL DETAIL J A5.2
3/4" = 1'-0"



BUILDING SECTION H A5.2
1/8" = 1'-0"



WALL SECTION G A5.2
3/4" = 1'-0"

WALL SECTION F A5.2
3/4" = 1'-0"

WALL SECTION E A5.2
3/4" = 1'-0"

WALL SECTION D A5.2
3/4" = 1'-0"

WALL SECTION C A5.2
3/4" = 1'-0"

WALL SECTION B A5.2
3/4" = 1'-0"

WALL SECTION A A5.2
3/4" = 1'-0"

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RONALD E. MURRELL

WALL SECTIONS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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BG# 19-262

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Drawn By:	BB
Rev'd By:	RM

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CONSTRUCTION DOCUMENTS

A5.2

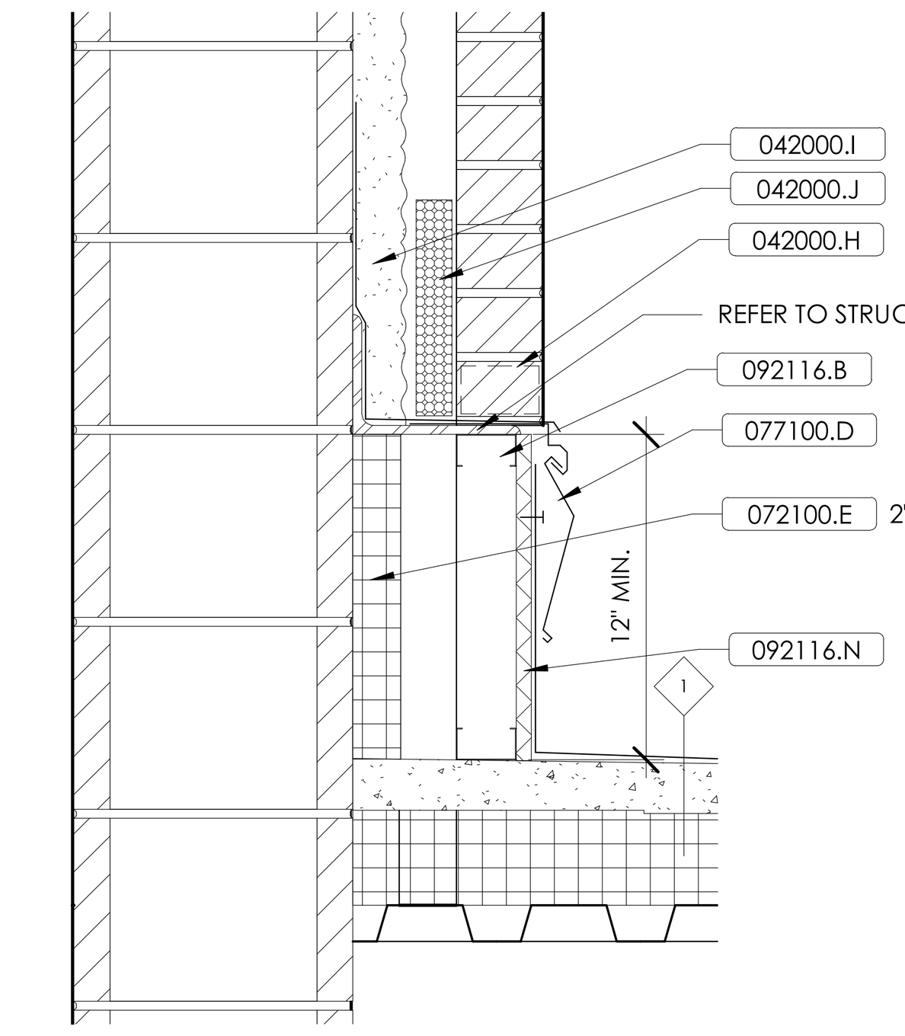
WALL SECTIONS

DATE ISSUED:
9/13/19

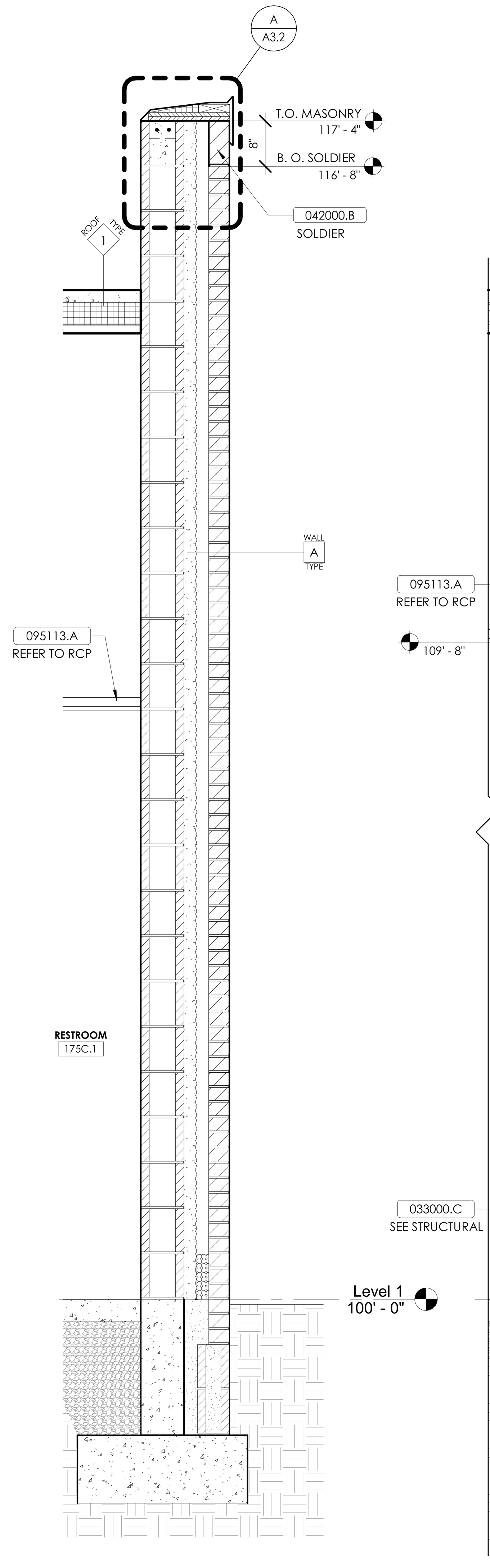
REVISIONS		
#	DATE	DESCRIPTION

MATERIAL REFERENCE

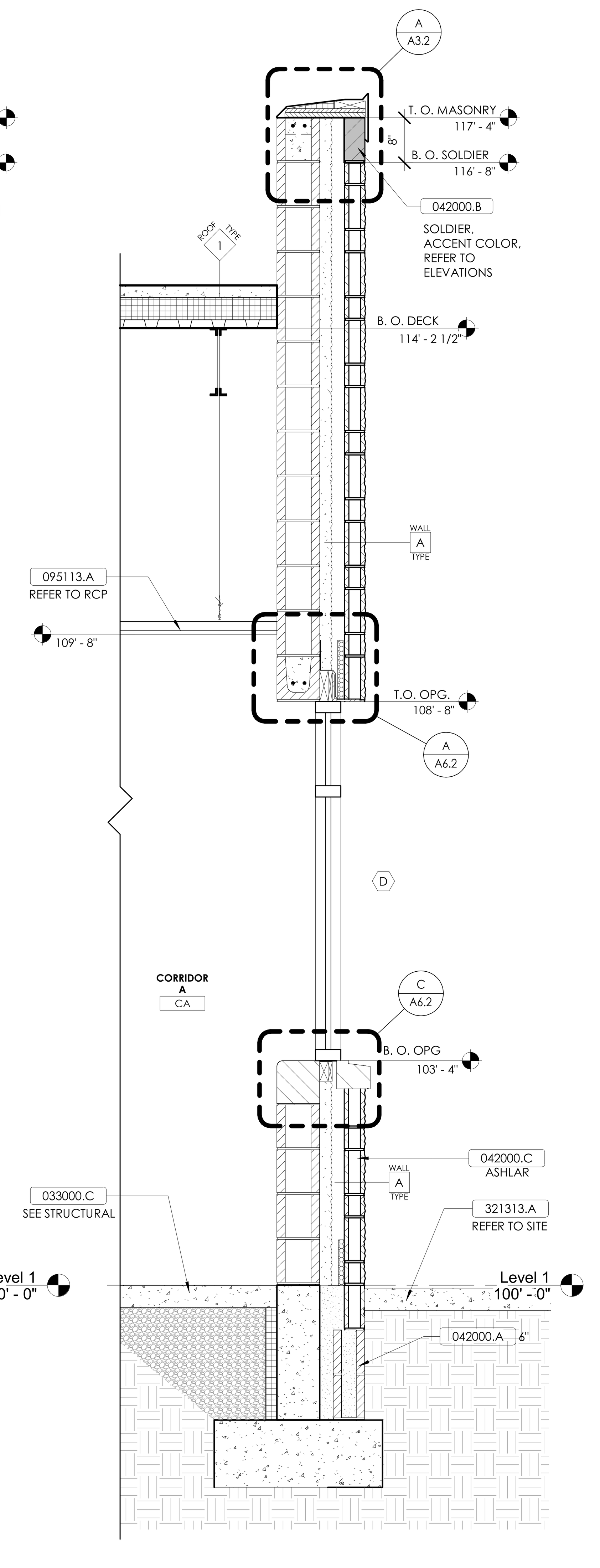
033000.C	Slab-on-Grade
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.C	Split Face CMU
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
072100.E	Extruded Polystyrene Board Insulation
077100.D	Reglet/Counter Flashing
083313.A	Coiling Counter Door
092116.A	Gypsum Board Assemblies
092116.B	Metal Studs and Runners
092116.N	Exterior Gypsum Roof Board
095113.A	Acoustical Panel Ceiling System
321313.A	Concrete Paving



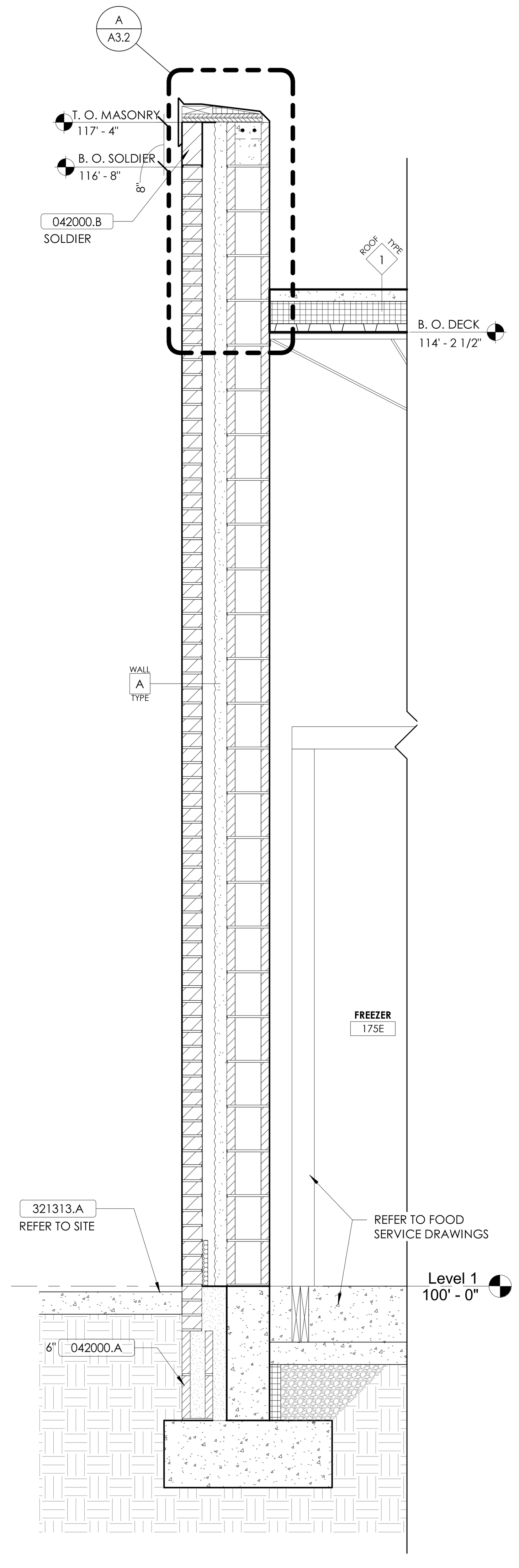
WALL SECTION DETAIL G A5.3
1 1/2" = 1'-0"



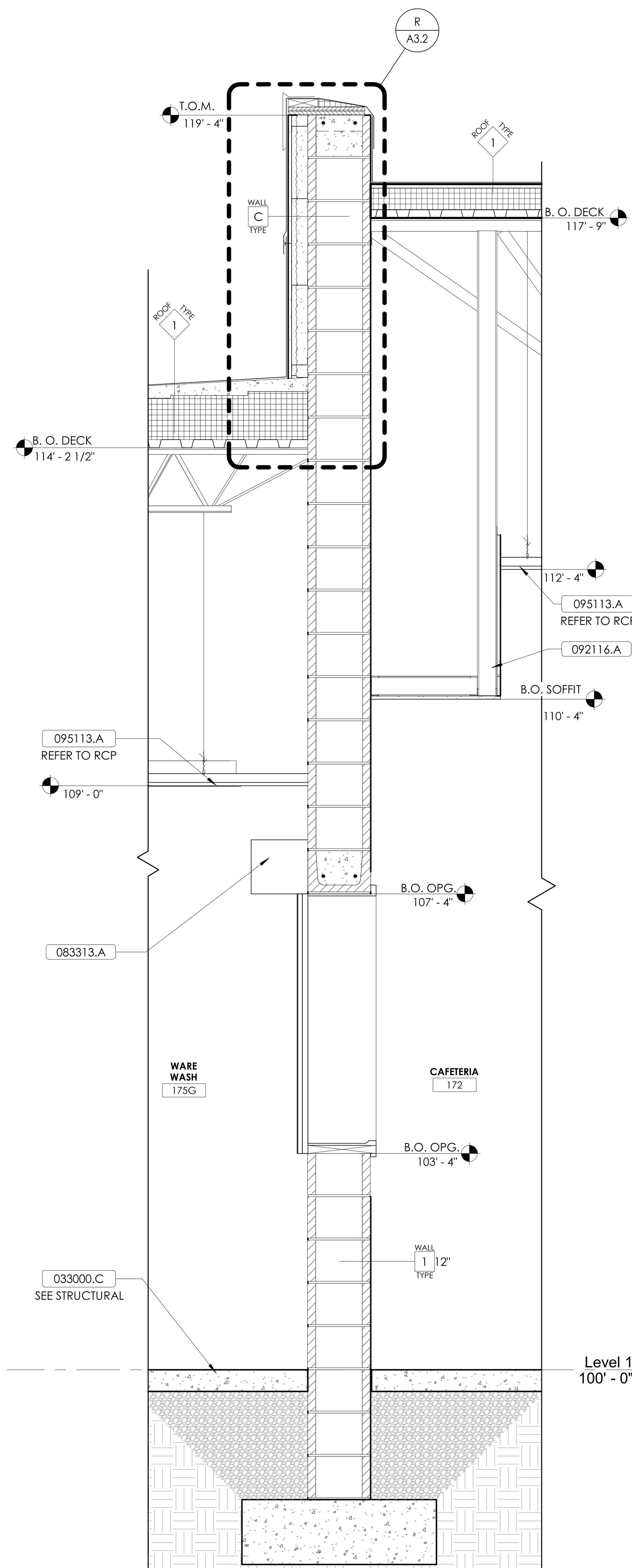
WALL SECTION F A5.3
3/4" = 1'-0"



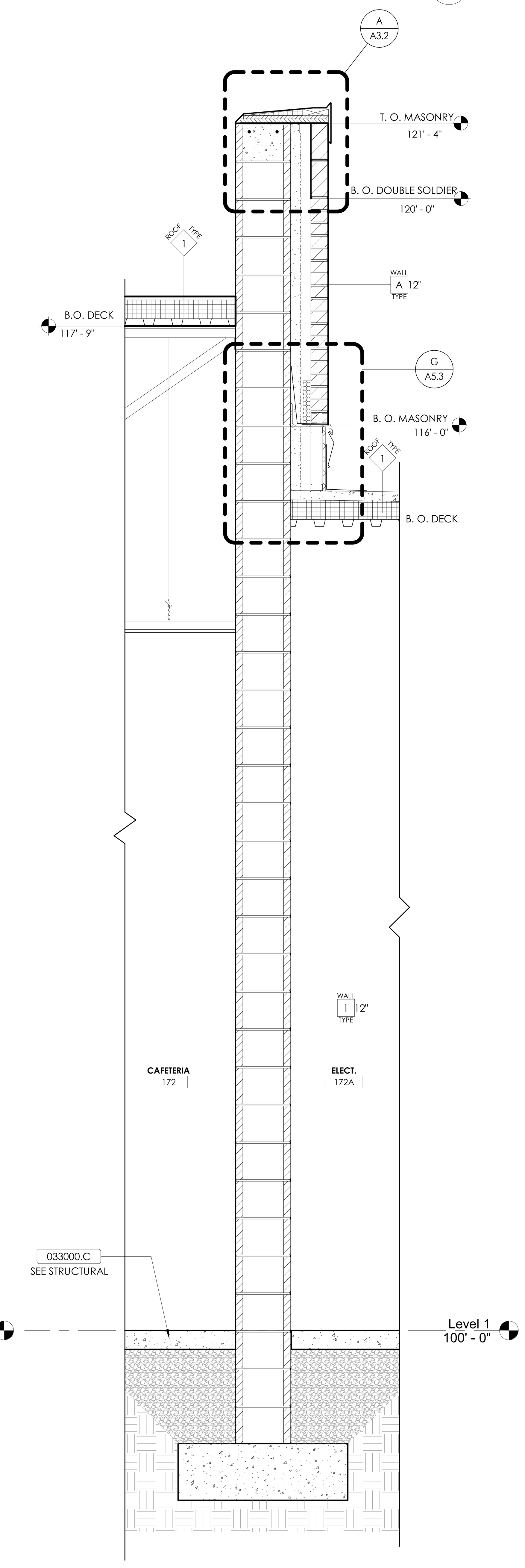
WALL SECTION E A5.3
3/4" = 1'-0"



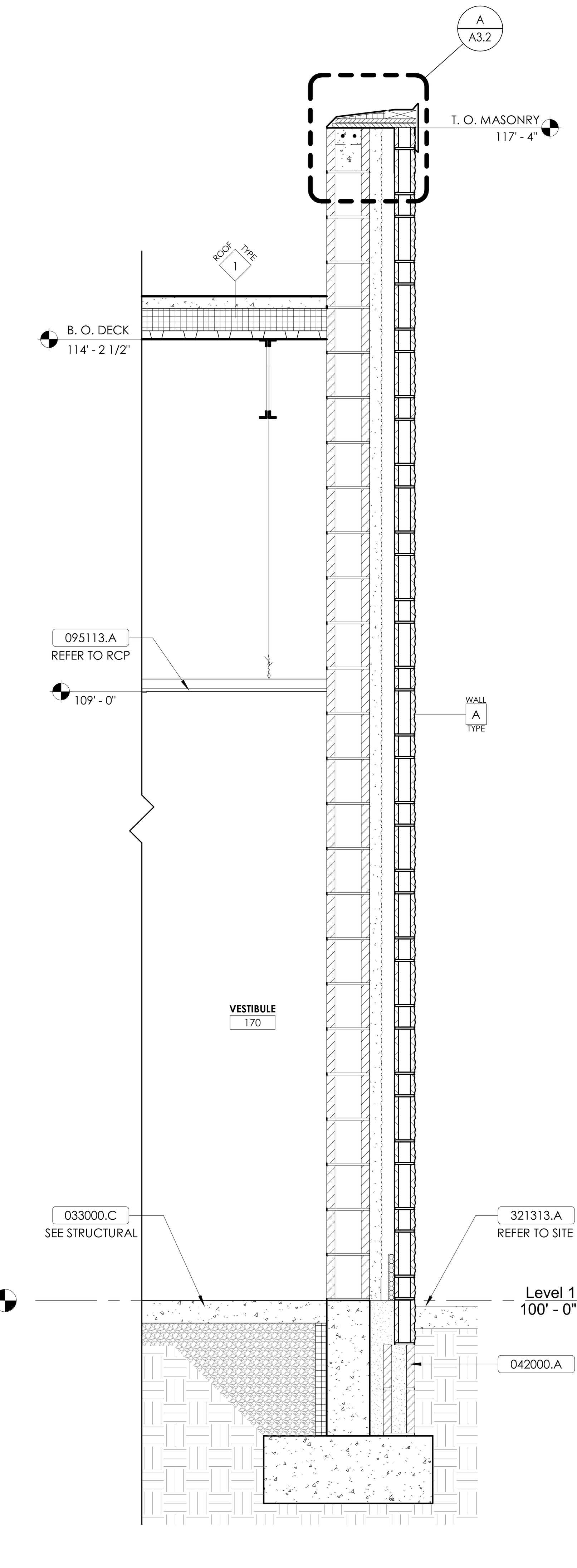
WALL SECTION D A5.3
3/4" = 1'-0"



WALL SECTION C A5.3
3/4" = 1'-0"



WALL SECTION B A5.3
3/4" = 1'-0"



WALL SECTION A A5.3
3/4" = 1'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL JR. REGISTERED ARCHITECT COMMONWEALTH OF KENTUCKY

WALL SECTIONS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262
Project No: 1904
Drawn By: BB
Rev'd By: RM

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CONSTRUCTION DOCUMENTS

A5.3

WALL SECTIONS

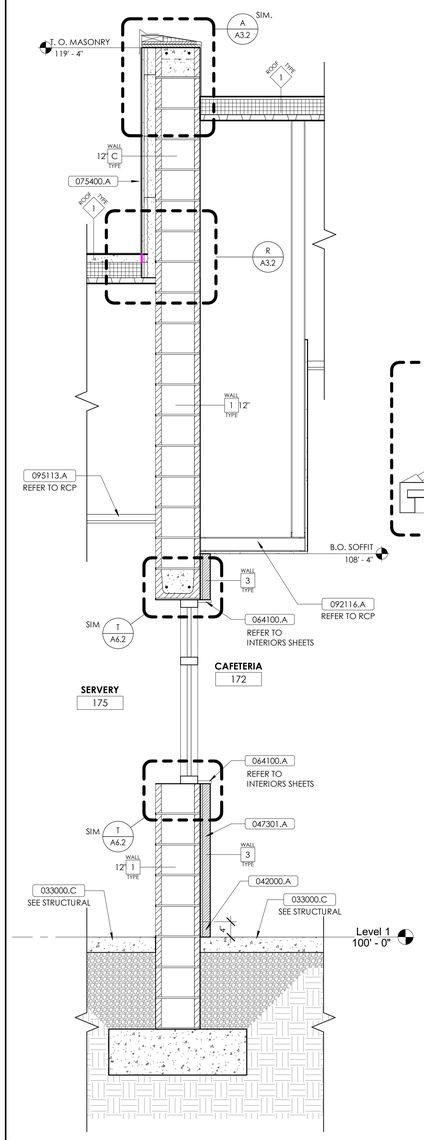
DATE ISSUED: 9/13/19

REVISIONS

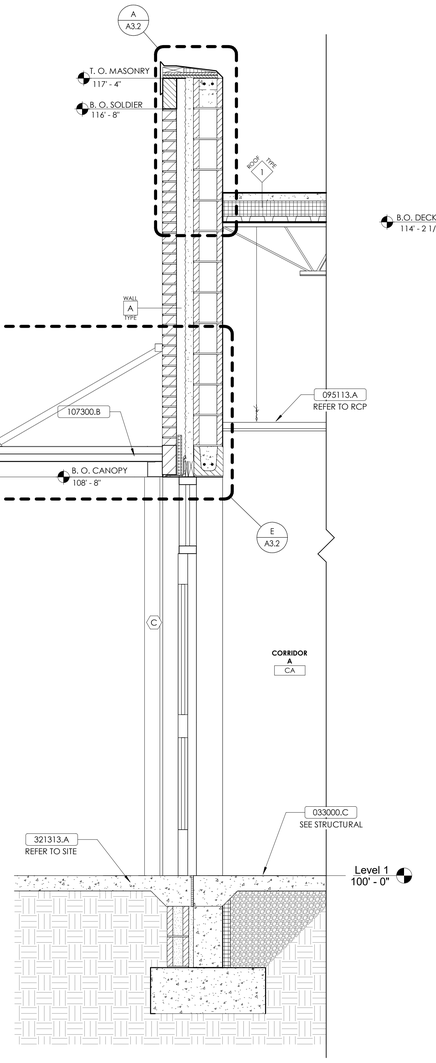
#	DATE	DESCRIPTION

MATERIAL REFERENCE

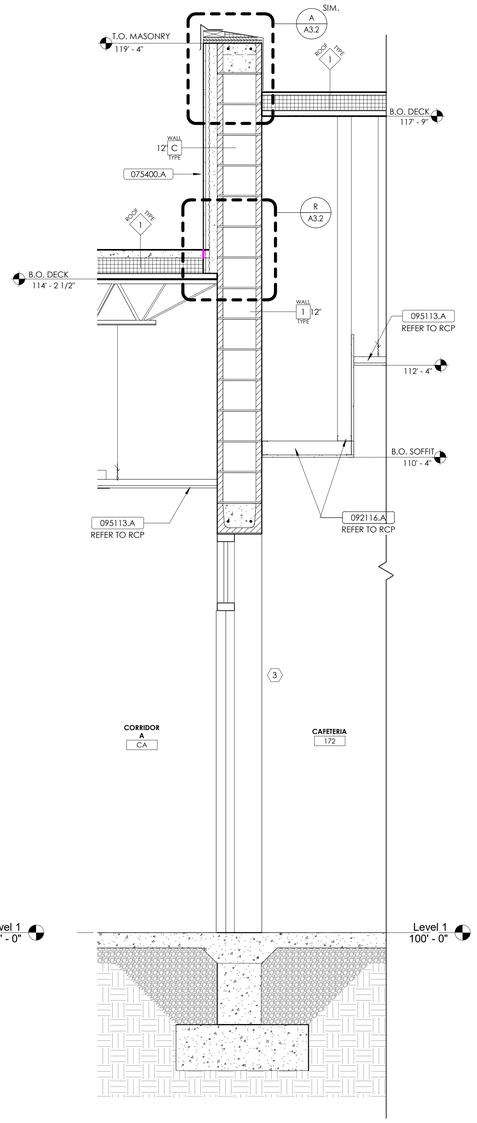
033000.C	Slab-on-Grade
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.C	Split Face CMU
044200.A	Stone Cladding
047301.A	Cultured Stone Veneer
064100.A	Custom Casework
075400.A	Thermoplastic Membrane Roofing System
077100.B	Coping
084313.E	Storefront Sunshade
092116.A	Gypsum Board Assemblies
095113.A	Acoustical Panel Ceiling System
099000.A	Paint
107300.B	Wall Hung Metal Canopy
321313.A	Concrete Paving



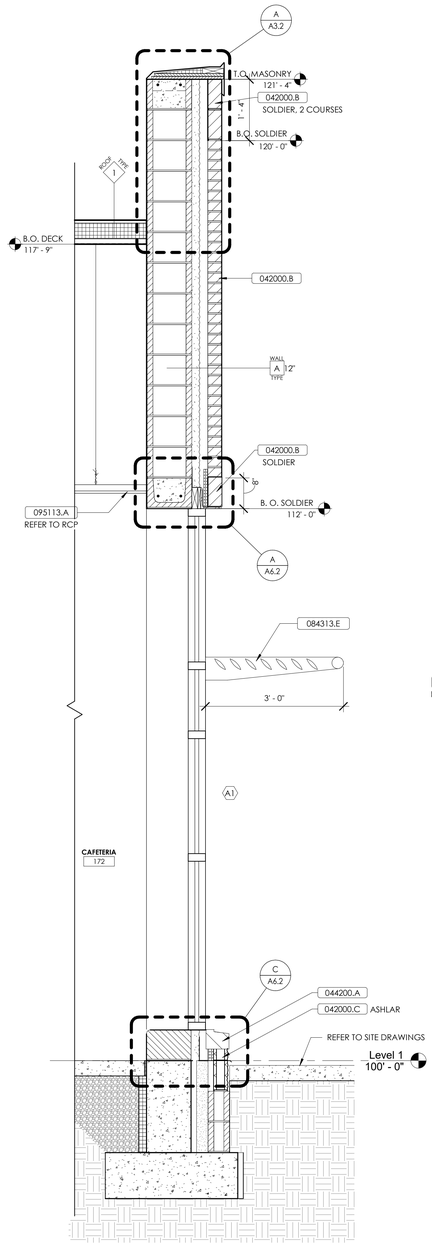
WALL SECTION
3/4" = 1'-0"
E
A5.4



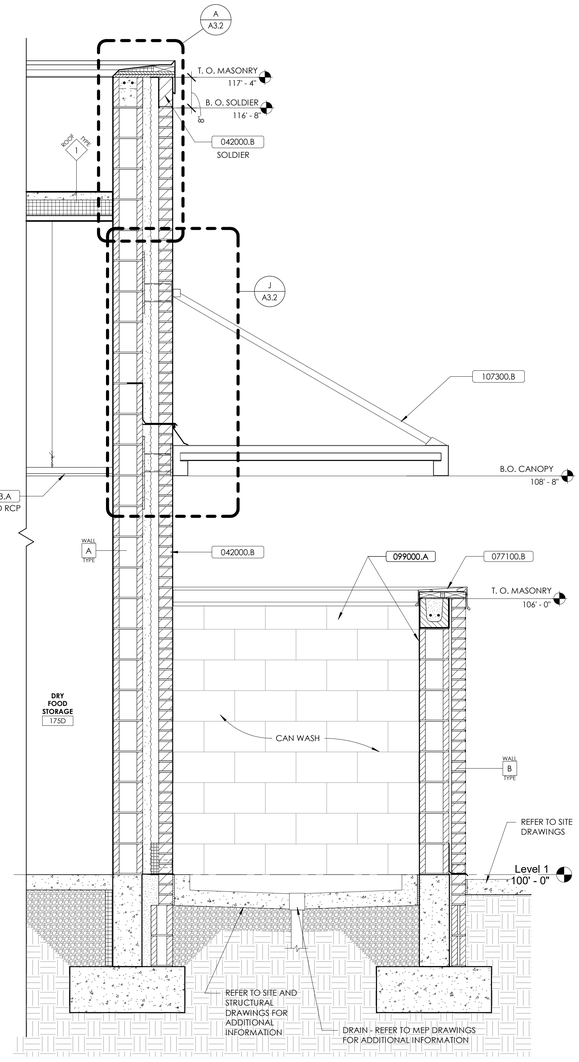
WALL SECTION
3/4" = 1'-0"
D
A5.4



WALL SECTION
3/4" = 1'-0"
C
A5.4



WALL SECTION
3/4" = 1'-0"
B
A5.4



WALL SECTION
3/4" = 1'-0"
A
A5.4

rosstarrant architects
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RONALD E. MURRELL
REGISTERED
No. 4328
COMMONWEALTH OF KENTUCKY
ARCHITECT

WALL SECTIONS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
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p 615.255.5537

BG# 19-262

Project No:	1904
Drawn By:	BB
Rev'd By:	RM

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CONSTRUCTION DOCUMENTS

A5.4

WALL SECTIONS

DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION

SCHEDULE OF DOORS AND FRAMES - ALTERNATES #1 AND #2

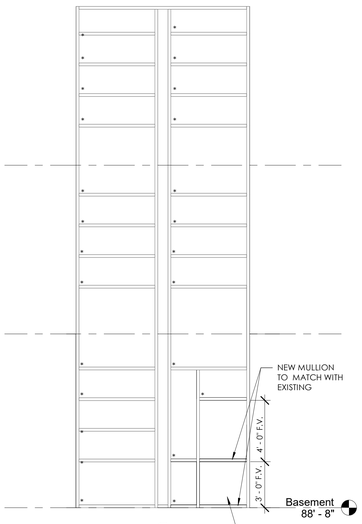
DOOR NUMBER	PAIR	DOOR W	DOOR H	DOOR THICK	DOOR MAT	DOOR TYPE	DOOR GLASS	FRAME MAT	FRAME TYPE	FRAME THICK	DETAIL HEAD	DETAIL JAMB	FIRE RATING	SET NO.	COMMENTS
ALTERNATE #1															
B101		3' - 0"	7' - 0"	1 3/4"	WD	NGS	T.	HM	1A	8 1/4"	S/A6.2	R/A6.2	-	06A	
B102		3' - 0"	7' - 0"	1 3/4"	WD	NGS	T.	HM	1A	8 1/4"	S/A6.2	R/A6.2	-	06A	
B103		3' - 0"	7' - 0"	1 3/4"	WD	NGS	T.	HM	1A	8 1/4"	S/A6.2	R/A6.2	-	06A	
B104		3' - 0"	7' - 0"	1 3/4"	WD	NGS	T.	EXIST.	1	EXIST.	-	-	-	06A	EXISTING FRAME TO REMAIN, NEW DOOR.
B105.1		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2	"S"	11	
B105.2		3' - 0"	7' - 0"	1 3/4"	AL	AL1	T.J.	EXIST.	G	EXIST.	-	-	-	13	EXISTING DOOR AND FRAME TO REMAIN. REPLACE TOP HALF GLASS WITH GLASS SALVAGED FROM DEMO'D DOOR (COORDINATE WITH DEMO).
B105A		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2	-	10	
ALTERNATE #2															
101		3' - 0"	7' - 0"	1 3/4"	WD	HG	T.	HM	1	5 3/4"	H/A6.2	J/A6.2	-	12	
101A		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1A	5 7/8"	S/A6.2	R/A6.2	-	10B	
102		3' - 0"	7' - 0"	1 3/4"	EXIST.	F	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	SMOKE		EXISTING DOOR AND FRAME TO REMAIN.
102A		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1A	8 1/4"	S/A6.2	R/A6.2	-	10A	

SCHEDULE OF DOORS AND FRAMES

DOOR NUMBER	PAIR	DOOR W	DOOR H	DOOR THICK	DOOR MAT	DOOR TYPE	DOOR GLASS	FRAME MAT	FRAME TYPE	FRAME THICK	DETAIL HEAD	DETAIL JAMB	FIRE RATING	SET NO.	COMMENTS
170.1	X	6' - 0"	7' - 0"	1 3/4"	AL	AL2	T.J.	AL	C	4 1/2"	A/A6.2	B/A6.2	-	E01	
170.2	X	6' - 0"	7' - 0"	1 3/4"	AL	AL2	T.	AL	C	4 1/2"	D/A6.2	E/A6.2		03	
171		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		04A	
172.1	X	6' - 0"	7' - 0"	1 3/4"	WD	FG2	T.	HM	3	5 3/4"	H/A6.2	J/A6.2		01B	
172.2	X	6' - 0"	7' - 0"	1 3/4"	WD	FG2	T.	HM	3	5 3/4"	H/A6.2	J/A6.2		01B	
172.3	X	6' - 0"	7' - 0"	1 3/4"	AL	AL2	T.J.	AL	B	4 1/2"	A/A6.2	B/A6.2		01C	
172A		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		04	
175.1		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	8 1/4"	T/A6.2	T/A6.2		06	
175.2	X	6' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	2	8 1/4"	T/A6.2	T/A6.2		07	
175.3		3' - 0"	7' - 0"	1 3/4"	WD	DD	-	HM	1	5 3/4"	H/A6.2	J/A6.2		06	DUTCH DOOR WITH SHELF
175A		3' - 6"	7' - 0"	1 3/4"	HM	F	-	HM	1	5 3/4"	F/A6.2	G/A6.2		E02	
175B		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		06A	
175C		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2	SP	08	
175C.1		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2	SP	10	
175D		3' - 6"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		04C	
175G		4' - 0"	4' - 0"	2"	SS	CD					P/A6.2	Q/A6.2		09	REFER TO 0833131.A
176		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		05	
176A		3' - 0"	7' - 0"	1 3/4"	HM	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		04B	
177		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		10	
178		3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	5 3/4"	H/A6.2	J/A6.2		10	
B106B	X	6' - 0"	7' - 0"	1 3/4"	EXIST.	F	-	EXIST.	-	8 1/4"	-	-			EXISTING DOOR AND FRAME TO REMAIN.
B106B.1		3' - 0"	7' - 0"	1 3/4"	EXIST.	F	-	EXIST.	-	6 3/4"	-	-			EXISTING DOOR AND FRAME TO REMAIN.
CA	X	6' - 0"	7' - 0"	1 3/4"	AL	AL2	T.J.	AL	C	4 1/2"	A/A6.2	B/A6.2		01A	
CB	X	6' - 0"	7' - 0"	1 3/4"	WD	HG	T.	HM	2	5 3/4"	H/A6.2	J/A6.2		02	
CC	X	6' - 0"	7' - 0"	1 3/4"	WD	HG	T.	HM	2	5 3/4"	H/A6.2	J/A6.2		02	

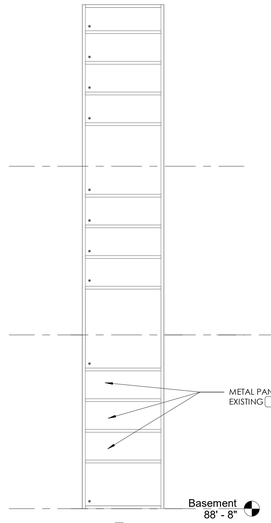
MATERIAL REFERENCE

088000.A	Glazing



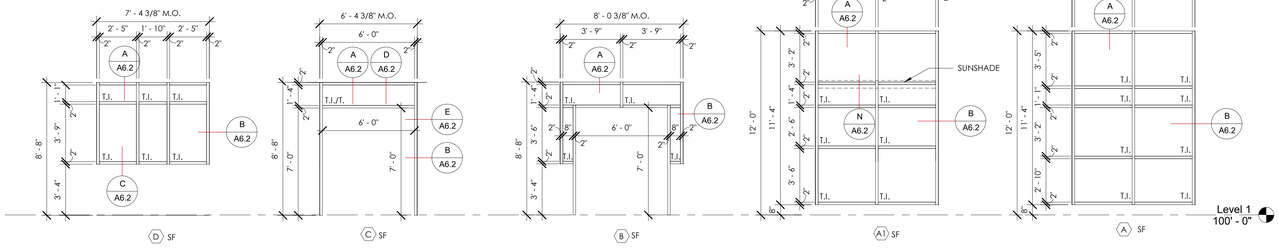
F CW

* EXISTING PANEL TO REMAIN



E CW

* EXISTING PANEL TO REMAIN

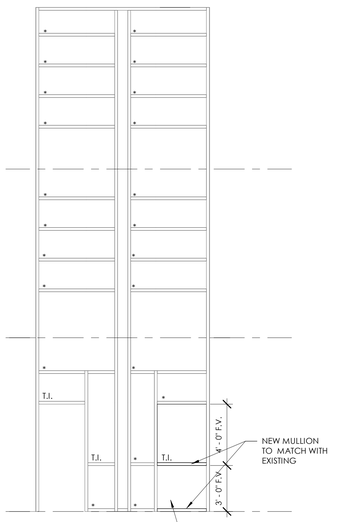


D SF C SF B SF A1 SF A SF

ALUMINUM WINDOW ELEVATIONS

1/4" = 1'-0"

C A6.1



G CW

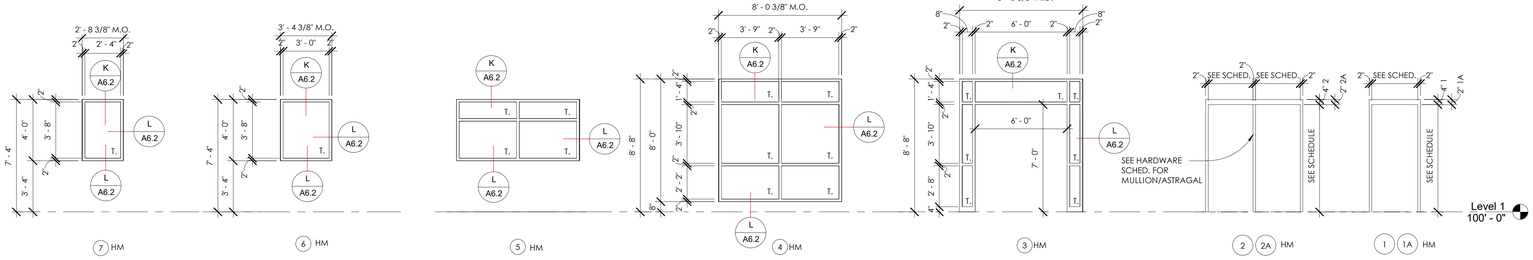
* EXISTING PANEL TO REMAIN

METAL PANEL TO MATCH WITH EXISTING 088000.A

ALUMINUM WINDOW ELEVATIONS- Alternate #1

1/4" = 1'-0"

D A6.1

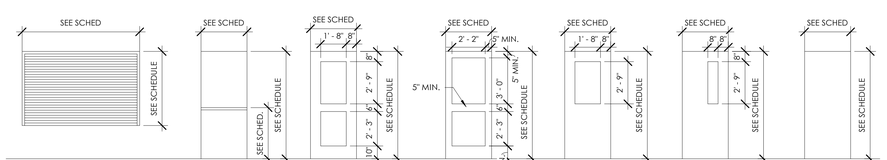


7 HM 6 HM 5 HM 4 HM 3 HM 2 2A HM 1 1A HM

HOLLOW METAL FRAME TYPES

N.T.S.

B A6.1



CD COUNTER DOOR DD DOUBLE DUTCH FG2 FULL GLASS AL2 ALUM FULL GLASS HG HALF GLASS NGS NARROW GLASS SHORT F FLUSH

DOOR TYPES

N.T.S.

A A6.1

DOOR SCHEDULE ABBREVIATION LEGEND:

AL	=	ALUMINUM
AW	=	ALUMINUM WINDOW
ARG	=	ASSAULT RESISTANT GLAZING
BN	=	BULLNOSE
BR	=	BULLET RESISTANT GLAZING
CW	=	CURTAINWALL
F	=	FIRE RATED GLAZING
HM	=	HOLLOW METAL
I	=	INSULATED
IFA	=	INTEGRATED FRAME ASSEMBLY
IP	=	INFILL PANEL
L	=	LAMINATED
O	=	OBSCURE GLAZING
S	=	SMOKE
SF	=	STOREFRONT
SPG.	=	SPANDREL GLAZING
T.	=	TEMPERED
T.I.	=	TEMPERED INSULATED
W	=	WIRE GLASS
WD	=	WOOD

*SEE DRAWING A0.1 FOR MORE ABBREVIATIONS.

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RONALD E. MURRELL REGISTERED 43 COMMONWEALTH OF KENTUCKY ARCHITECT

DOORS AND FRAME SCHEDULE

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

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CONSTRUCTION DOCUMENTS

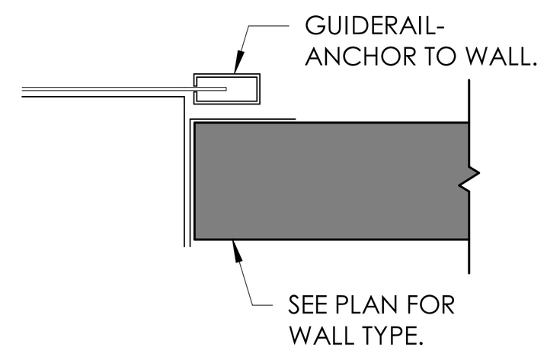
A6.1

DOORS AND FRAME SCHEDULE

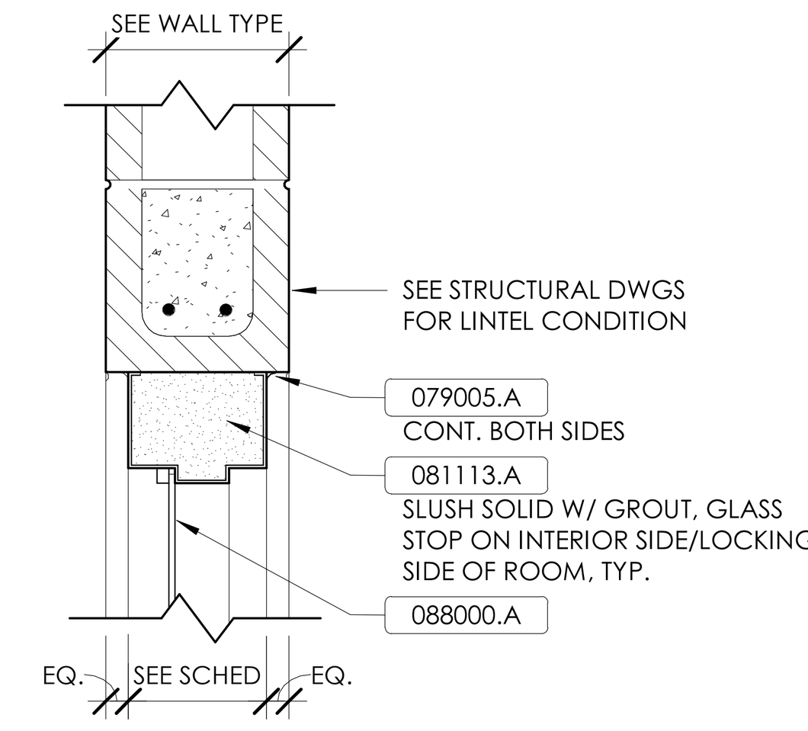
DATE ISSUED:
9/13/19

REVISIONS

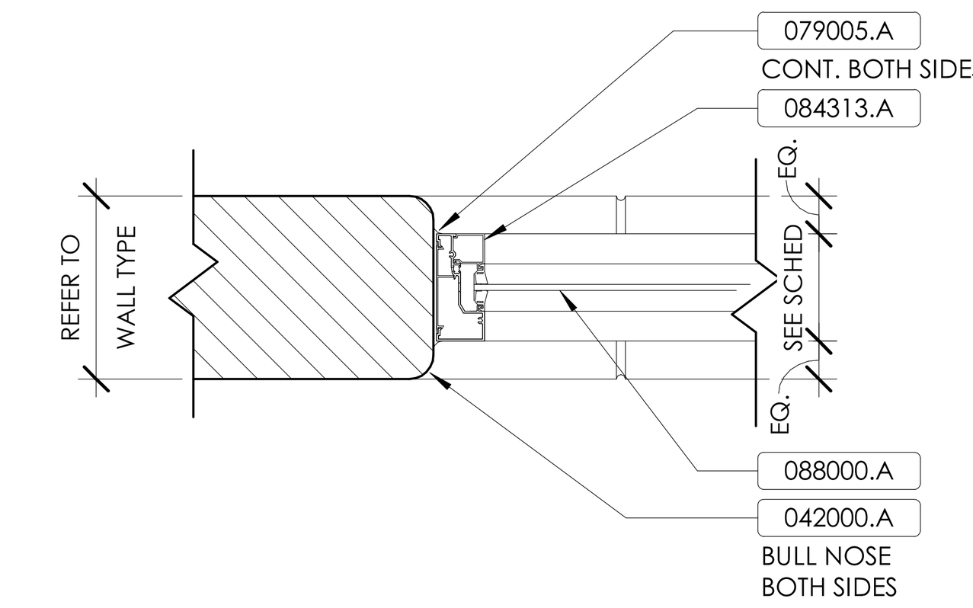
#	DATE	DESCRIPTION



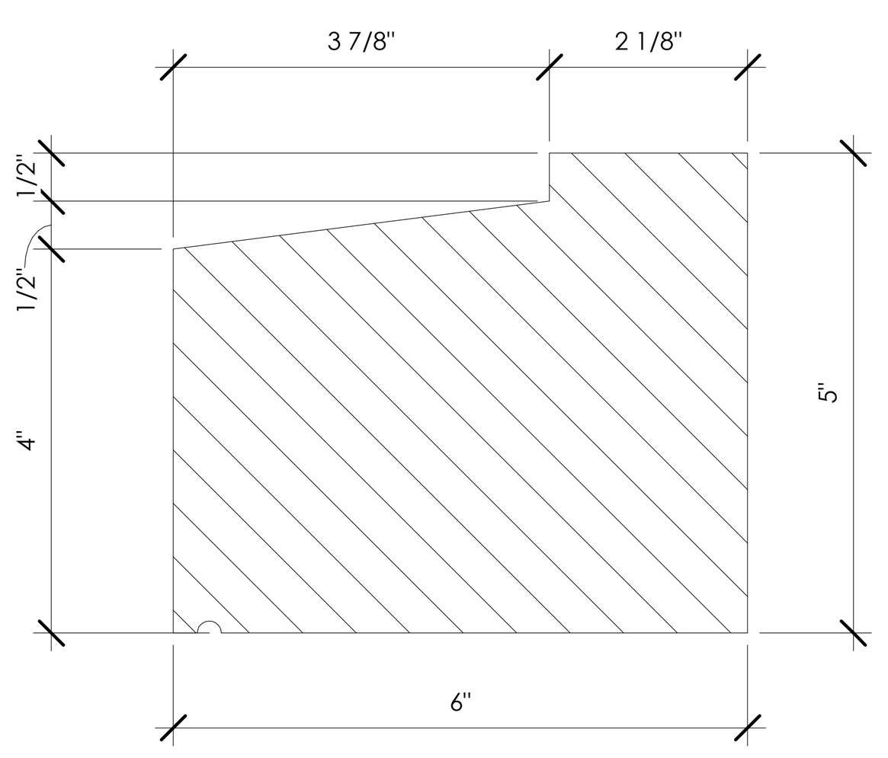
COILING DOOR JAMB DETAIL
1 1/2" = 1'-0"
Q
A6.2



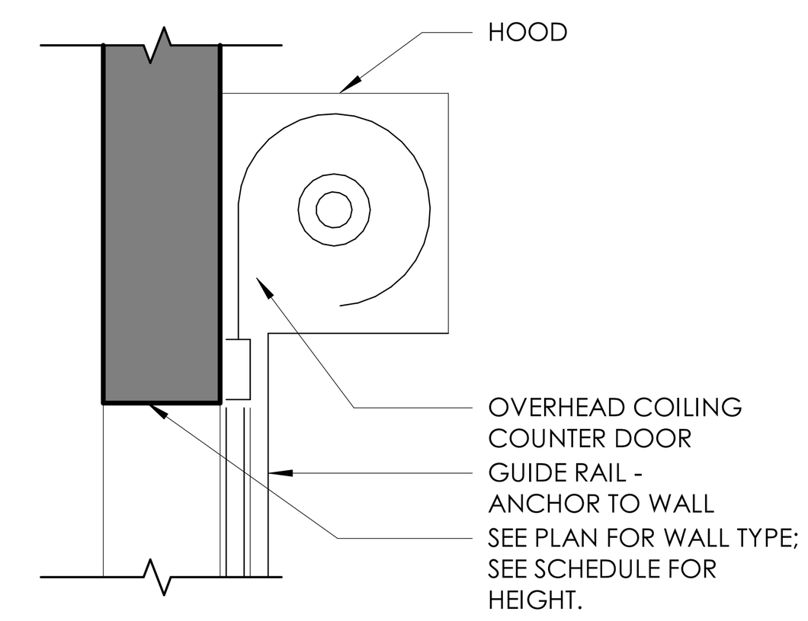
HM INT WINDOW HEAD
1 1/2" = 1'-0"
K
A6.2



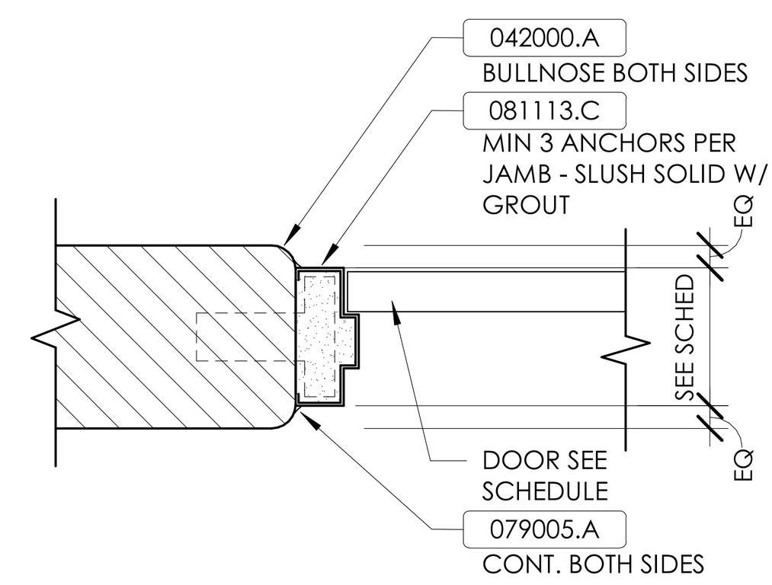
ALUM SF INT. JAMB/SILL
1 1/2" = 1'-0"
E
A6.2



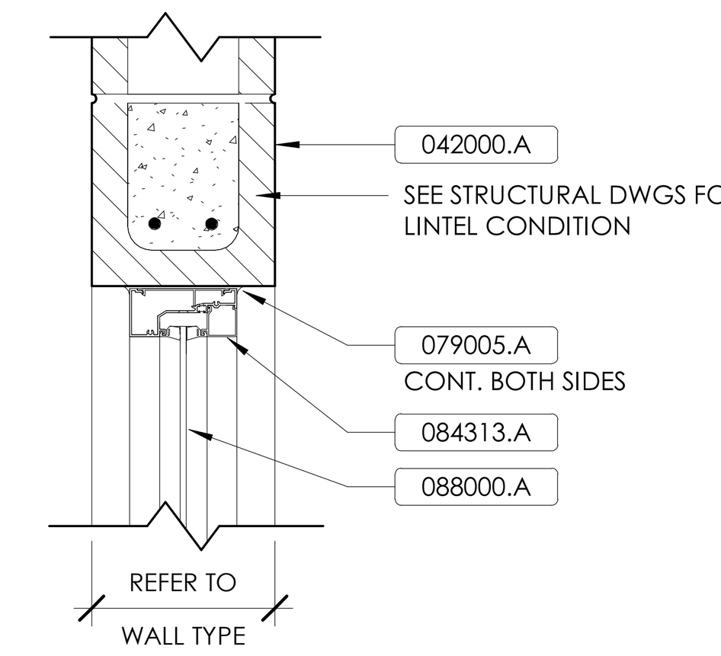
STONE CLADING
6" = 1'-0"
U
A6.2



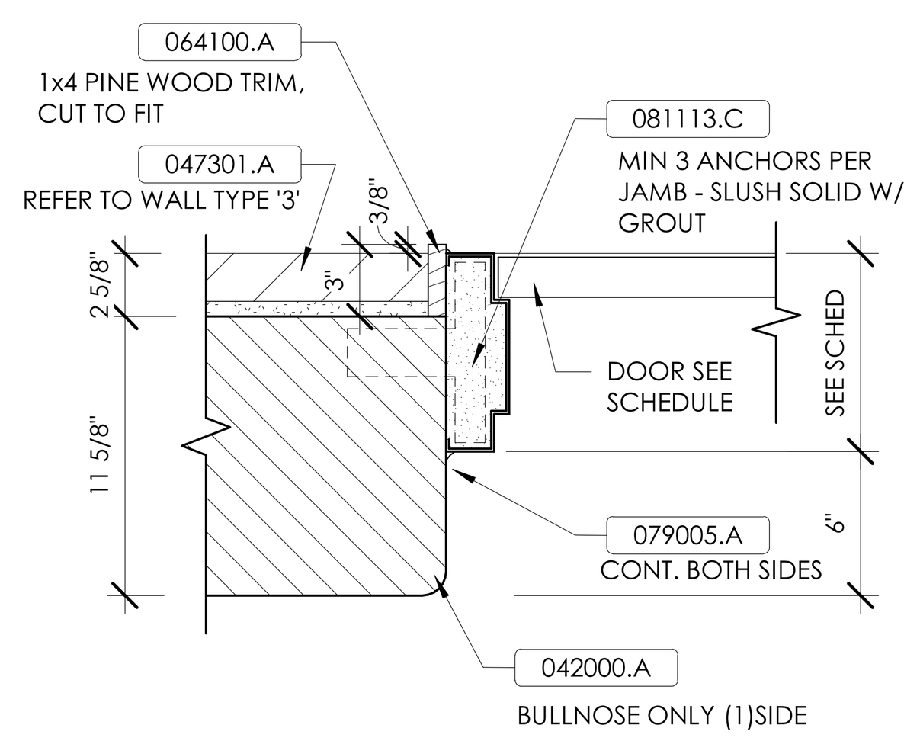
COILING DOOR HEAD DETAIL
1 1/2" = 1'-0"
P
A6.2



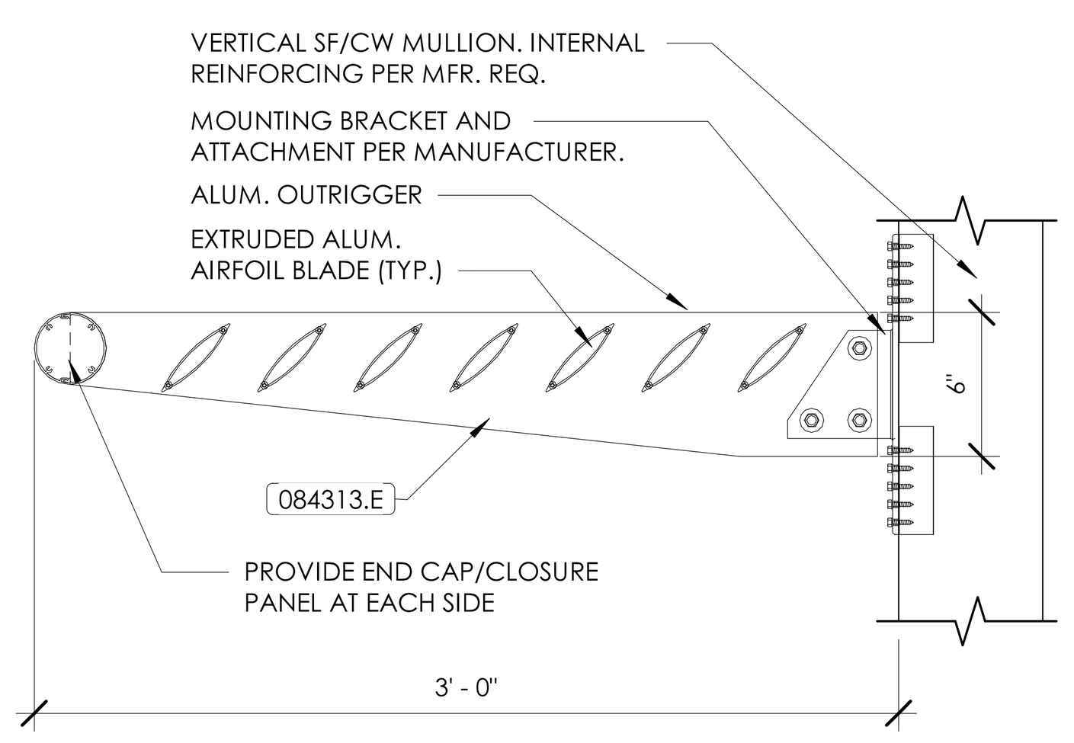
HM INT. JAMB/SILL
1 1/2" = 1'-0"
J
A6.2



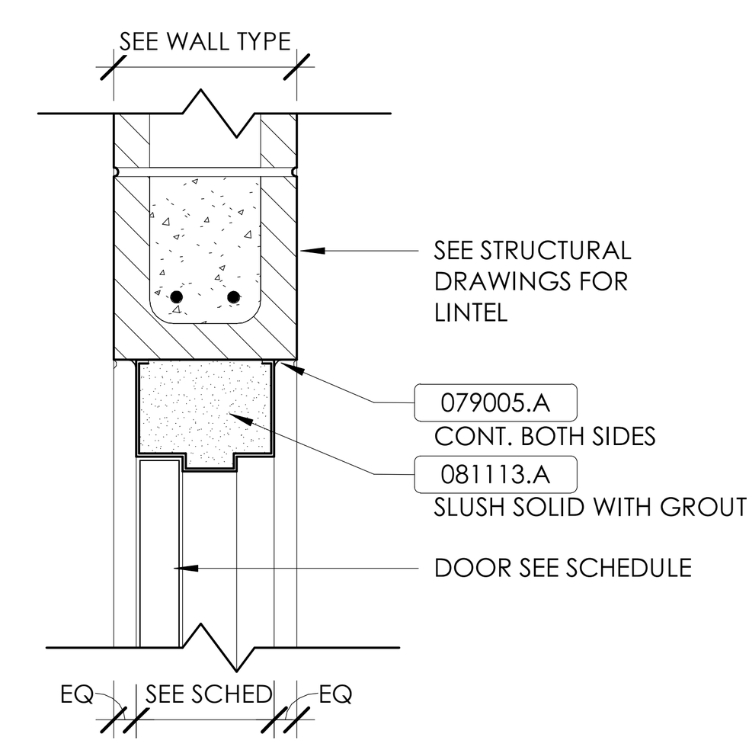
ALUM S.F. INT HEAD
1 1/2" = 1'-0"
D
A6.2



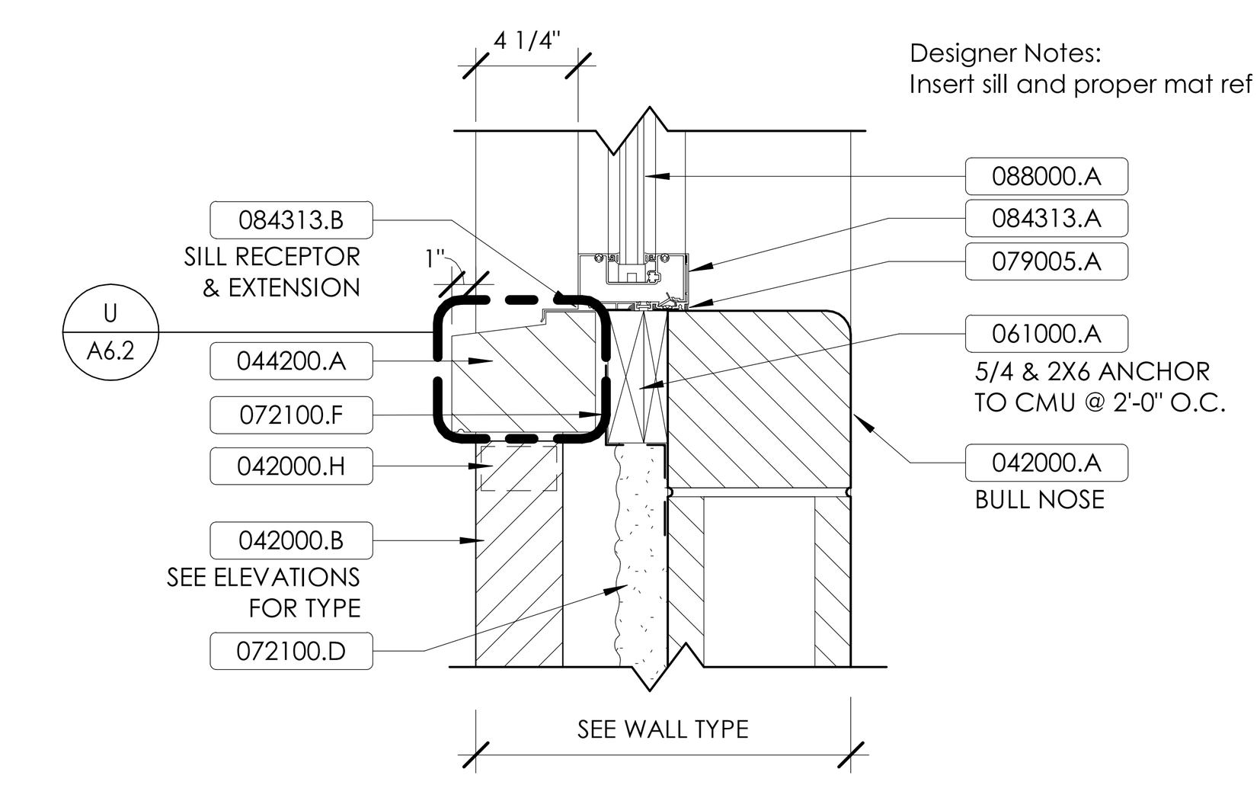
HM INT. HEAD/JAMB - WALL TYPE 3
1 1/2" = 1'-0"
T
A6.2



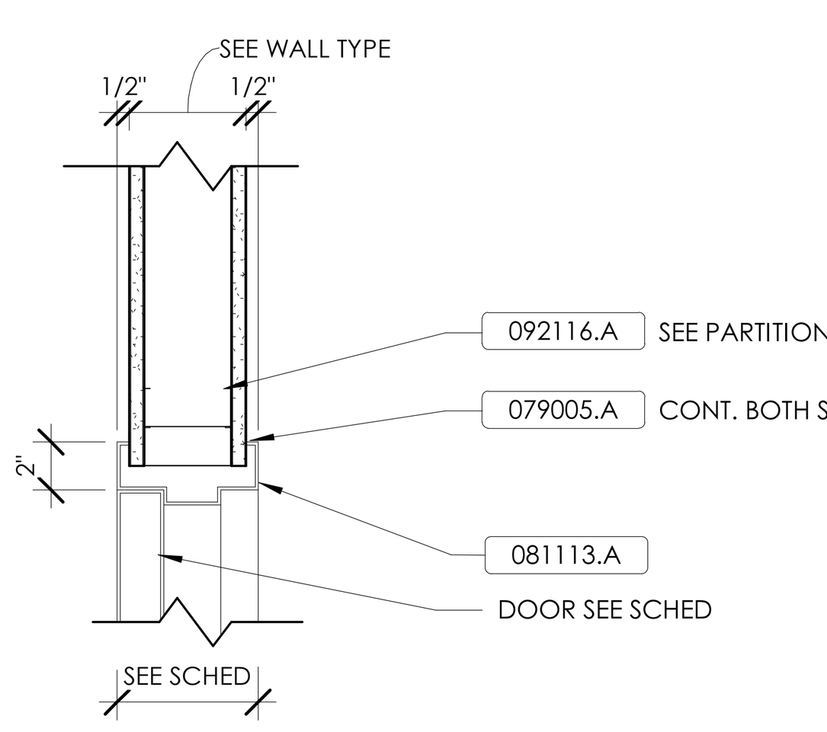
SUNSHADE SECTION DETAIL
1 1/2" = 1'-0"
N
A6.2



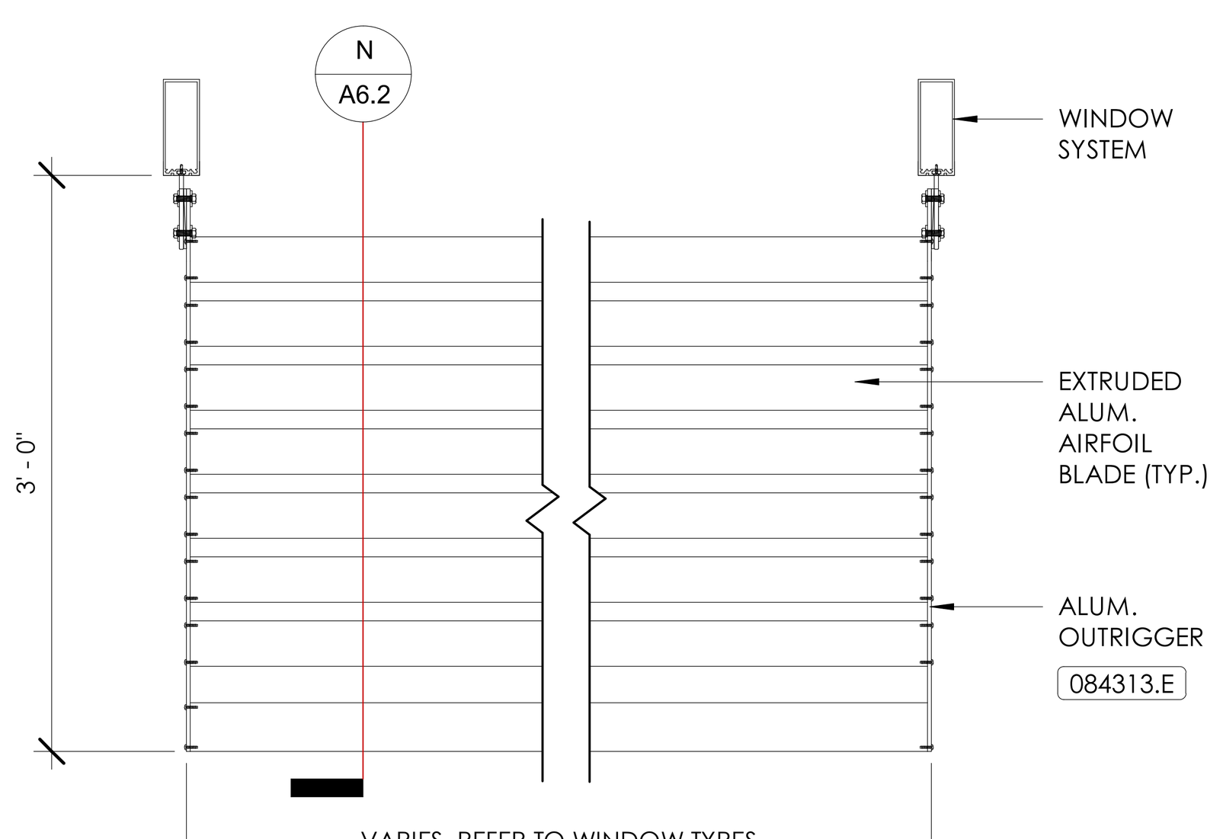
HM INT HEAD
1 1/2" = 1'-0"
H
A6.2



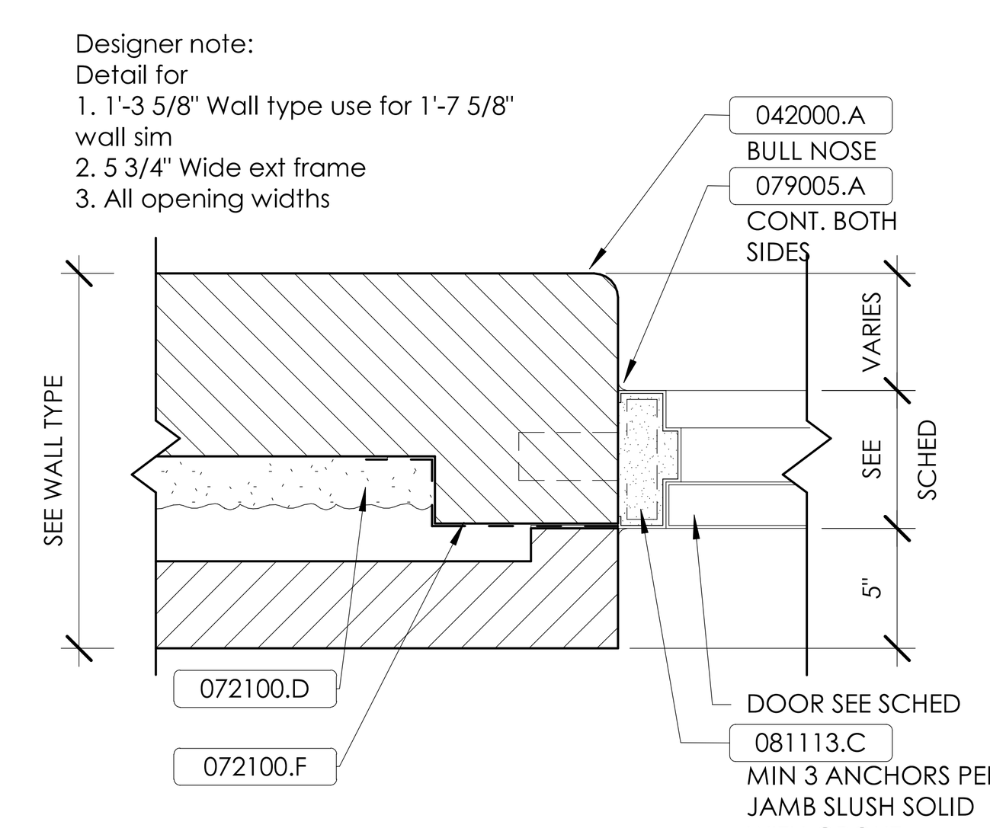
ALUM S.F. EXT SILL
1 1/2" = 1'-0"
C
A6.2



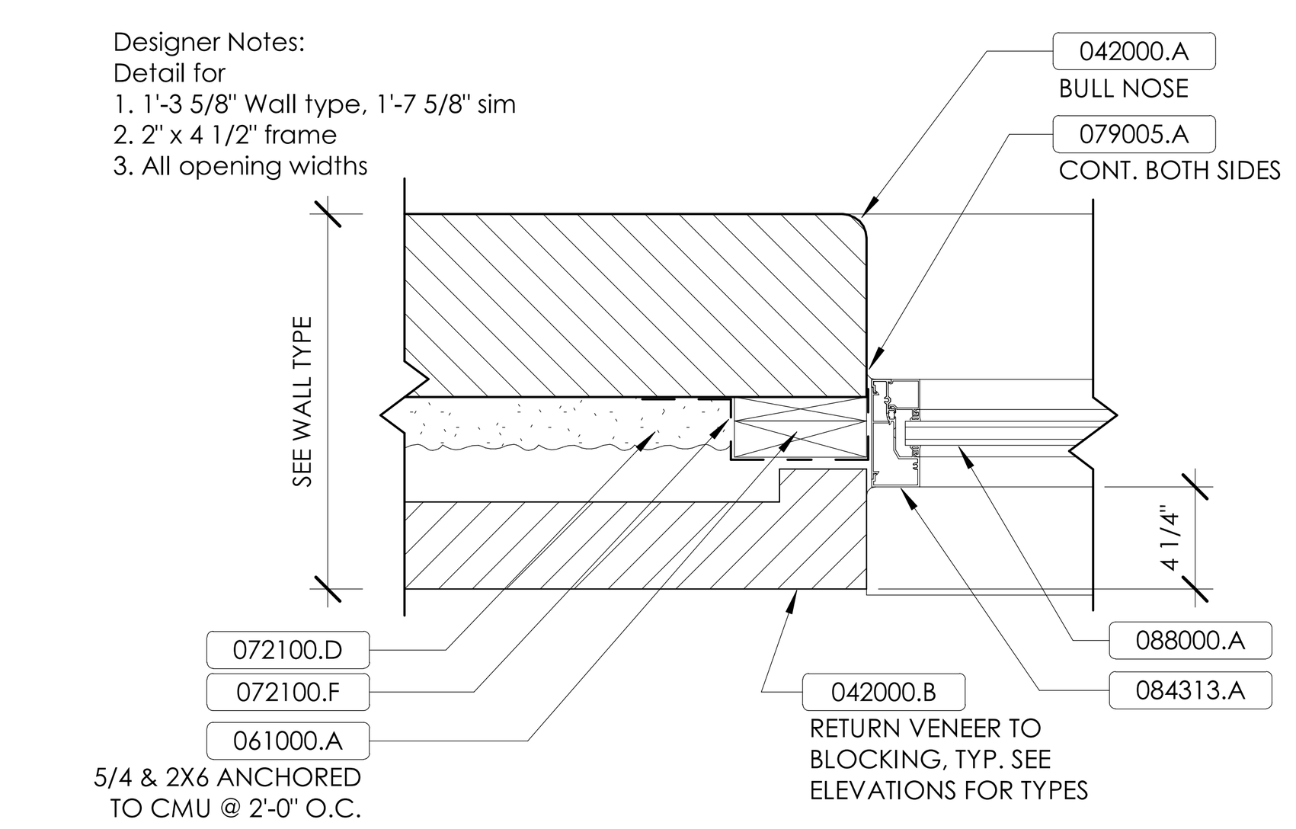
H.M. INT HEAD GYP
1 1/2" = 1'-0"
S
A6.2



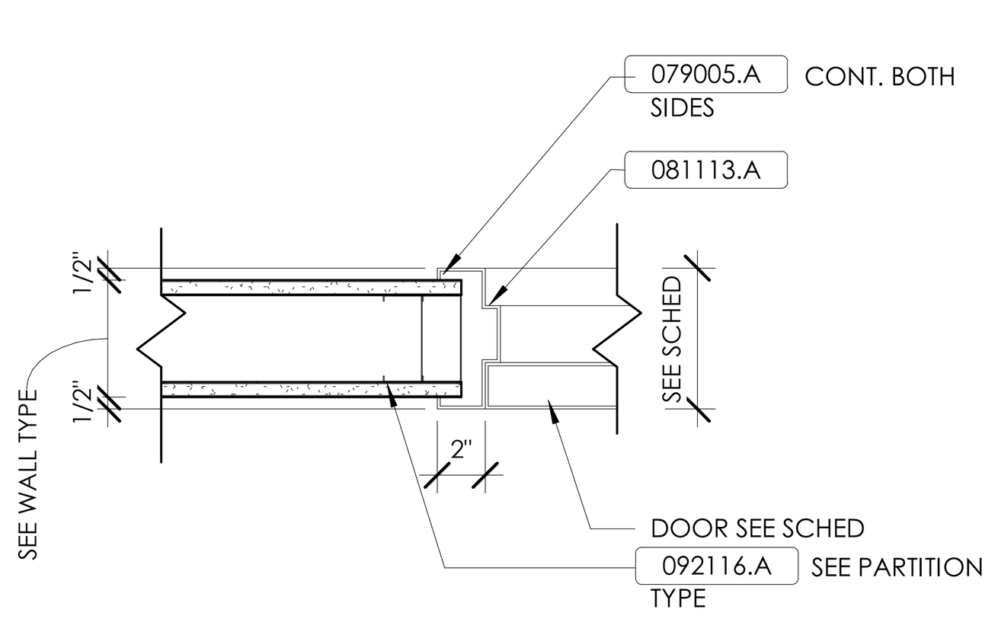
SUNSHADE PLAN DETAIL
1" = 1'-0"
M
A6.2



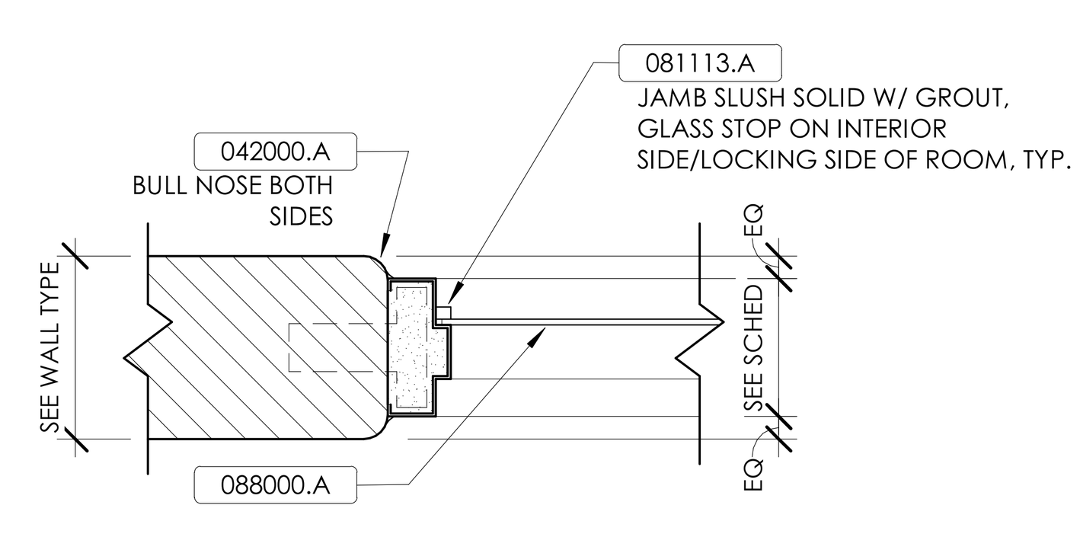
H.M. EXT JAMB
1 1/2" = 1'-0"
G
A6.2



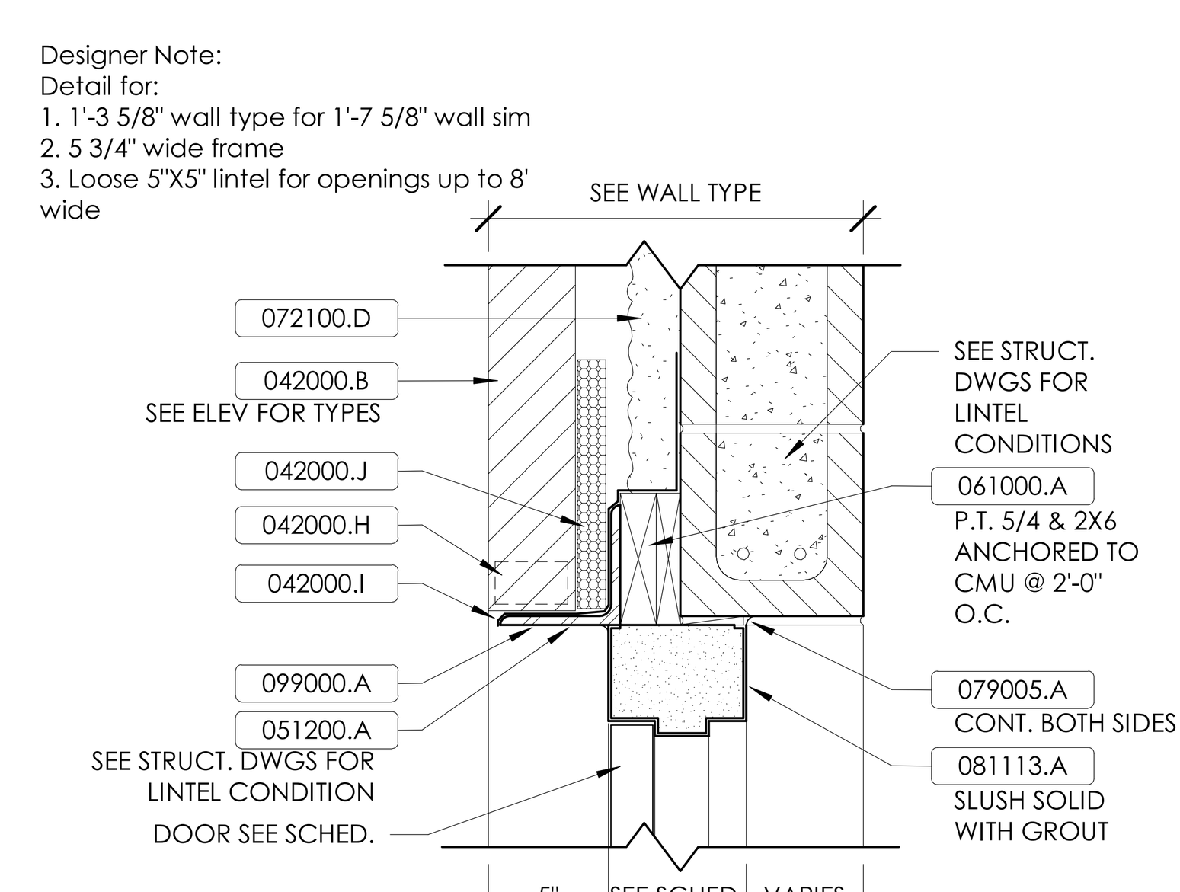
ALUM S.F. EXT JAMB
1 1/2" = 1'-0"
B
A6.2



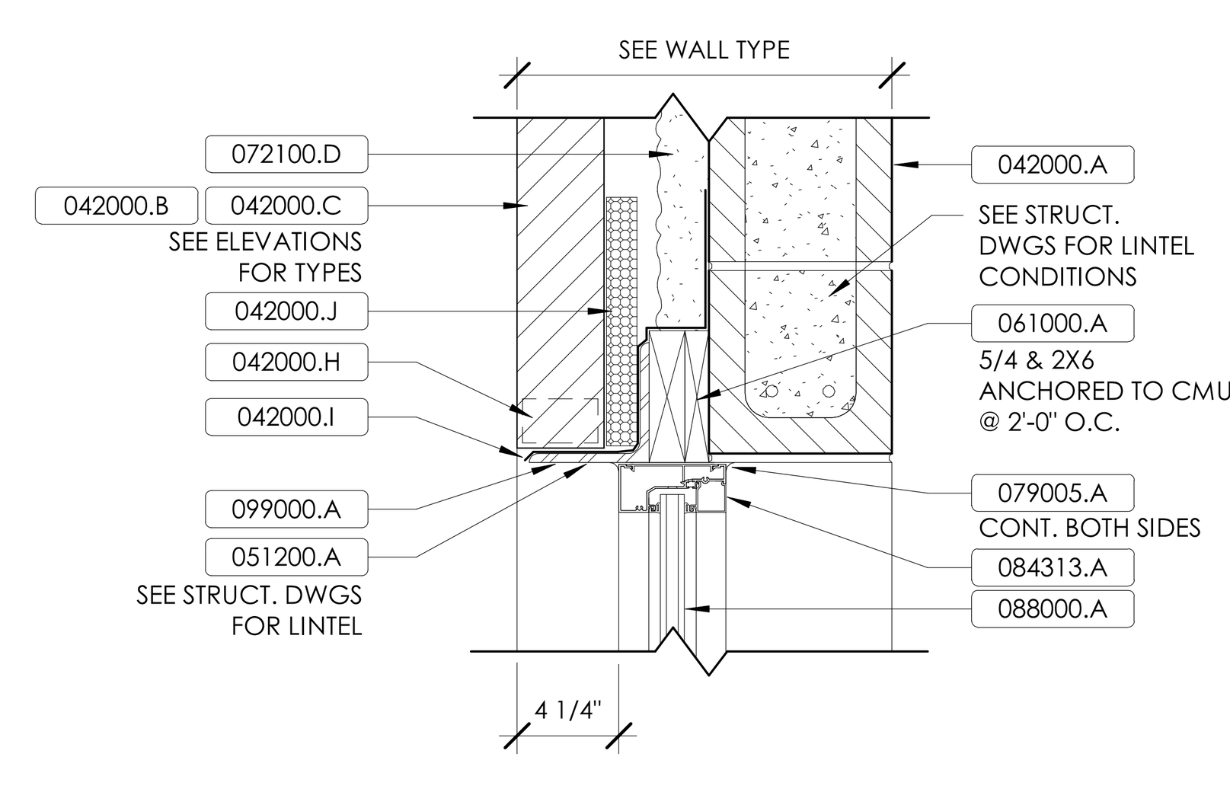
H.M. INT JAMB GYP
1 1/2" = 1'-0"
R
A6.2



HM INT. WINDOW JAMB/SILL
1 1/2" = 1'-0"
L
A6.2



H.M. EXT. HEAD
1 1/2" = 1'-0"
F
A6.2



ALUM S.F. EXT. HEAD
1 1/2" = 1'-0"
A
A6.2

MATERIAL REFERENCE

042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.C	Split Face CMU
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
044200.A	Stone Cladding
047301.A	Cultured Stone Veneer
051200.A	Structural Steel Member
061000.A	Wood Blocking
064100.A	Custom Casework
072100.D	Sprayed-In-Place Thermal Insulation
072100.F	Transition Membrane
079005.A	Joint Sealant
081113.A	Steel Doors & Frames
081113.C	Steel Frame
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
084313.E	Storefront Sunshade
088000.A	Glazing
092116.A	Gypsum Board Assemblies
099000.A	Paint

rosstarrant
architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL
REGISTERED
COMMONWEALTH OF KENTUCKY
ARCHITECT

DOOR AND WINDOW DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No: 1904
Drawn By: BB
Rev'd By: RM

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CONSTRUCTION DOCUMENTS

A6.2

DOOR AND WINDOW DETAILS

DATE ISSUED:
9/13/19

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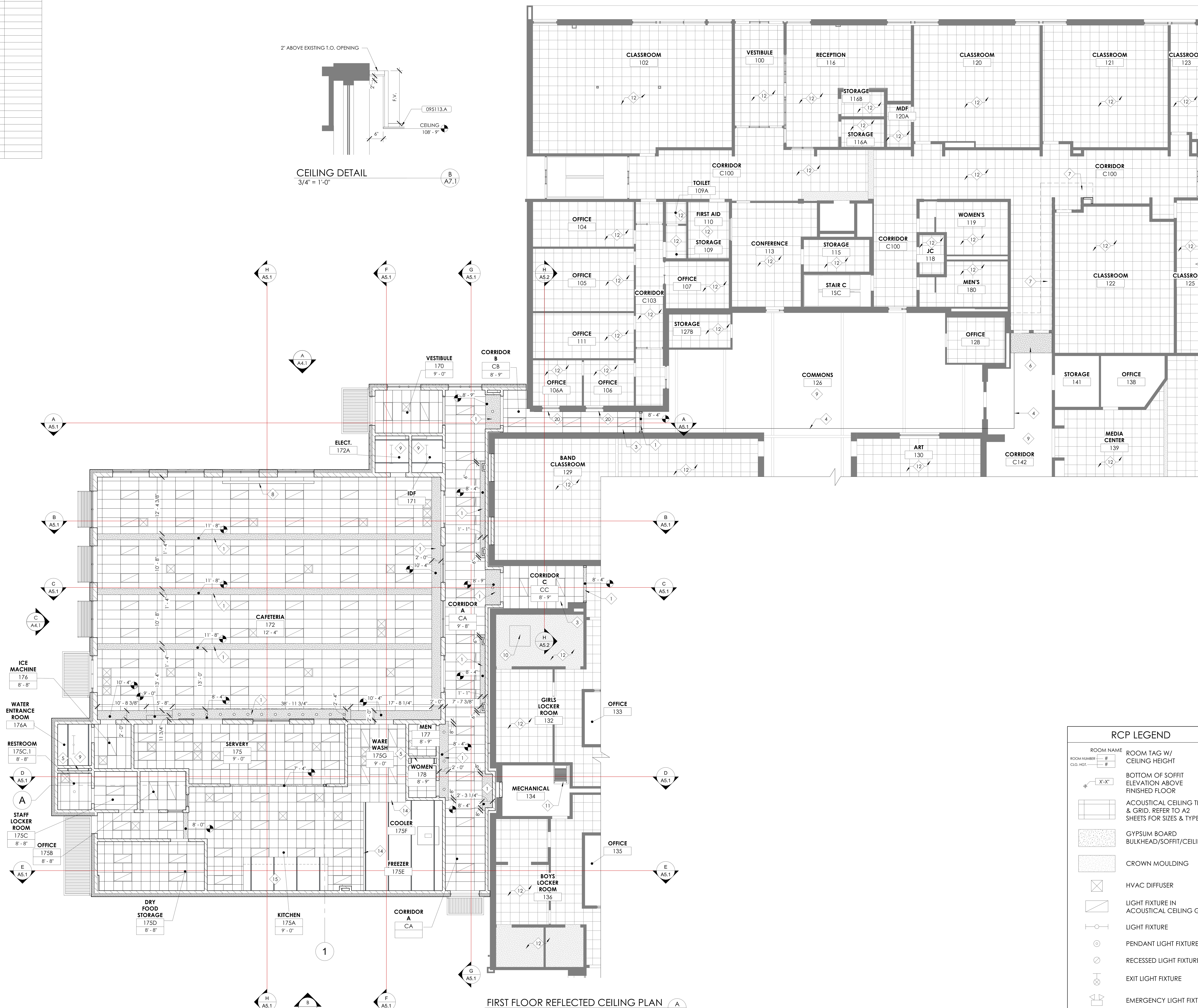

FIRST FLOOR REFLECTED CEILING PLAN (A / A7.1)
1/8" = 1'-0"

MATERIAL REFERENCE

095113.A Acoustical Panel Ceiling System

GENERAL RCP NOTES

1. LIGHT FIXTURES AND HVAC ITEMS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS, SPRINKLER HEADS AND LIGHTING FIXTURES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
2. SOFFITS AND BULKHEADS WILL RECEIVE ACCENT PAINT COLOR(S) TBD. HORIZONTAL AND VERTICAL SURFACES OF SOFFITS AND BULKHEADS WILL BE PAINTED AN ACCENT COLOR.
3. ALL GYPSUM BOARD CEILINGS, SOFFITS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, AND ETC. REMAINING EXPOSED AFTER CONSTRUCTION IS COMPLETE WILL RECEIVE A FINISH SYSTEM U.N.O. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.
4. REFER TO THE A1 DRAWINGS FOR REQUIRED FIRE RATINGS OF WALLS AND CEILINGS.
5. DIMENSIONS OF SOFFITS ARE TO THE FACE OF FINISHED GYPSUM BOARD.
6. ELEVATIONS INDICATED ARE TO THE BOTTOM OF FINISH MATERIAL FROM ABOVE FINISH FLOOR.
7. GYPSUM BOARD IS TO BE EXTENDED FOUR INCHES MINIMUM ABOVE FINISHED CEILINGS AT SOFFITS AND BULKHEADS THAT ARE NOT REQUIRED TO MAINTAIN A FIRE RATING OR ACOUSTIC SEPARATION.
8. RECESS FACE OF GYPSUM BOARD INTERIOR SOFFITS AND BULKHEADS ONE INCH FROM FACE OF BULLNOSE CMU.

RCP NOTES

#	
1	GYPSUM BOARD SOFFIT/BULKHEAD. REFER TO TYPICAL DETAILS. (092116).
2	GYPSUM BOARD CEILING. PROVIDE FRAMING AND SUPPORTS AS REQUIRED (092116).
3	INSTALL NEW ACOUSTIC CEILING TILE AND GRID IN ITS ENTIRETY.
4	EXPOSED ELECTRICAL CONDUIT; PAINT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5	UTILITY CHASE
6	GYPSUM BOARD SOFFIT/BULKHEAD TO REMAIN - PATCH AS NECESSARY FOR NEW WORK. COORDINATE WITH MEP SHEETS.
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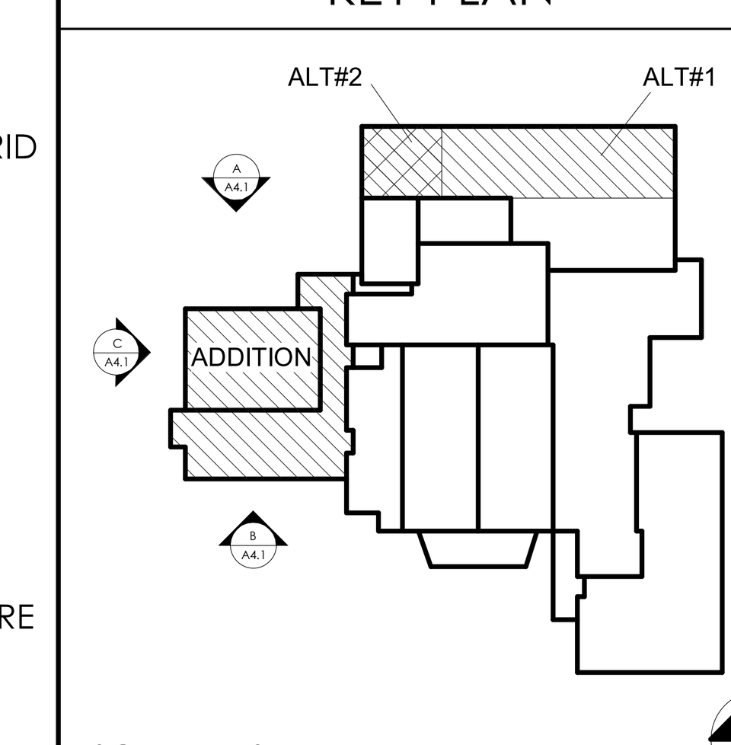
8	RECESSED MOTORIZED PROJECTOR SCREEN. REFER TO ELECT.
9	OPEN TO ABOVE; EXPOSED STRUCTURE. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
10	PATCH EXISTING PLASTER CEILING AS REQ'D DUE TO NEW ROOF DRAIN INSTALLATION. PAINT TO MATCH EXISTING PLASTER CEILING.
11	ROOF ACCESS LADDER AND HATCH. (055000)
12	EXISTING CEILING TO REMAIN.
14	COOLER/FREEZER ENCLOSURE PANEL. COORDINATE HEIGHT AND LOCATION WITH COOLER/FREEZER SUPPLIER.
15	KITCHEN EQUIPMENT PENETRATIONS. REFER TO FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
19	NEW CEILING TO BE INSTALLED AT EXISTING CEILING HEIGHT - FIELD VERIFY.
20	TURN CEILING TILE AND GRID UP VERTICAL AT THE EXISTING WINDOW. REFER TO DETAIL B/A7.1.
21	INSTALL NEW ACOUSTIC CEILING TILE AND GRID AT SAME HEIGHT AS THE EXISTING. REINSTALL EXISTING CEILING MOUNTED ITEMS IN SAME LOCATION.

RCP LEGEND

- ROOM NAME / ROOM NUMBER / CLG. HGT. — ROOM TAG W/ CEILING HEIGHT
- X'-X" — BOTTOM OF SOFFIT ELEVATION ABOVE FINISHED FLOOR
- ACOUSTICAL CEILING TILE & GRID. REFER TO A2 SHEETS FOR SIZES & TYPES
- GYPSUM BOARD BULKHEAD/SOFFIT/CEILING
- CROWN MOULDING
- HVAC DIFFUSER
- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXIT LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- TUBULAR SKYLIGHT

KEY PLAN



SCALE: NTS

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RONALD E. MURRELL 4372 COMMONWEALTH OF KENTUCKY REGISTERED ARCHITECT

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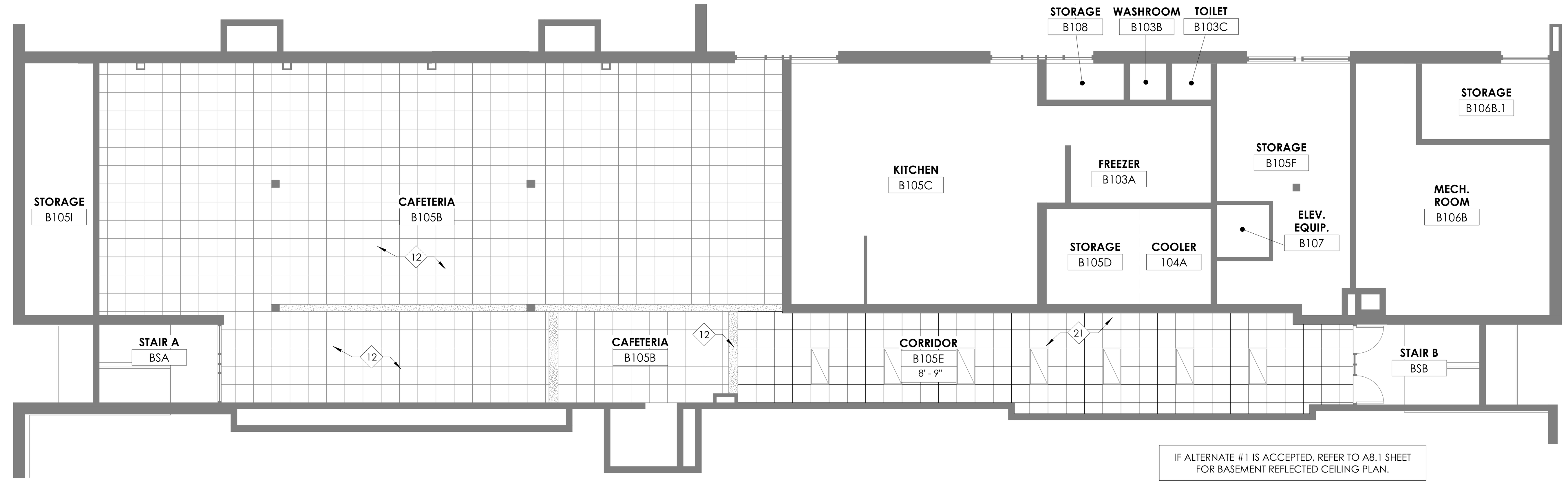
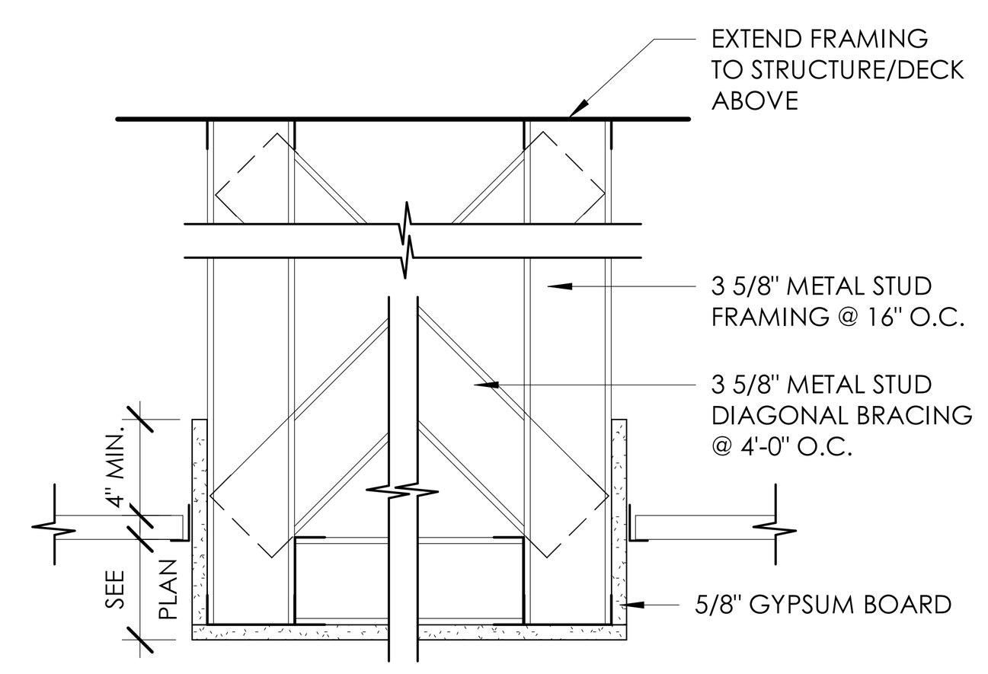
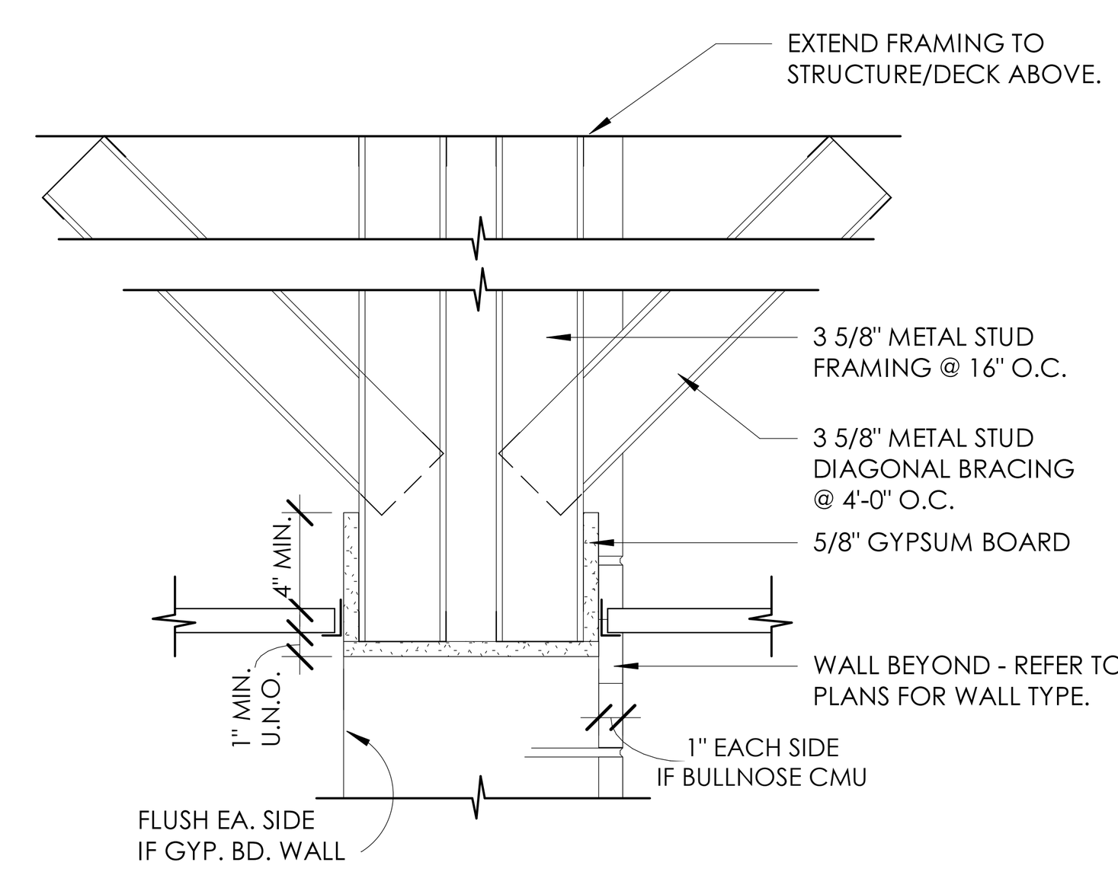


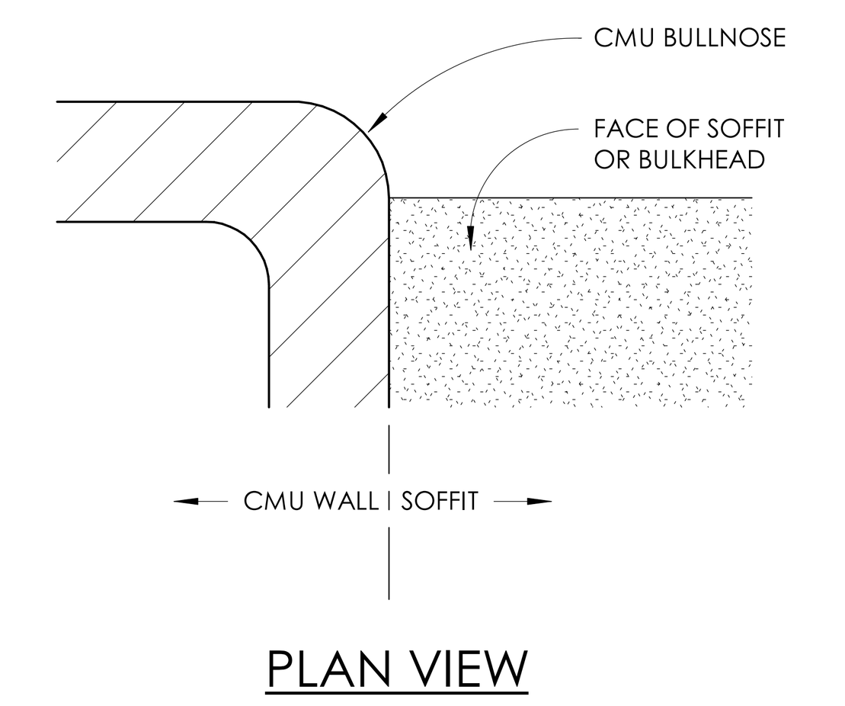
BASEMENT REFLECTED CEILING PLAN - BASE BID (D / A7.2)
1/8" = 1'-0"



TYPICAL SOFFIT DETAIL (C / A7.2)
1 1/2" = 1'-0"



TYPICAL BULKHEAD DETAIL (B / A7.2)
1 1/2" = 1'-0"



PLAN VIEW

TYPICAL SOFFIT DETAIL (A / A7.2)
N.T.S.

MATERIAL REFERENCE

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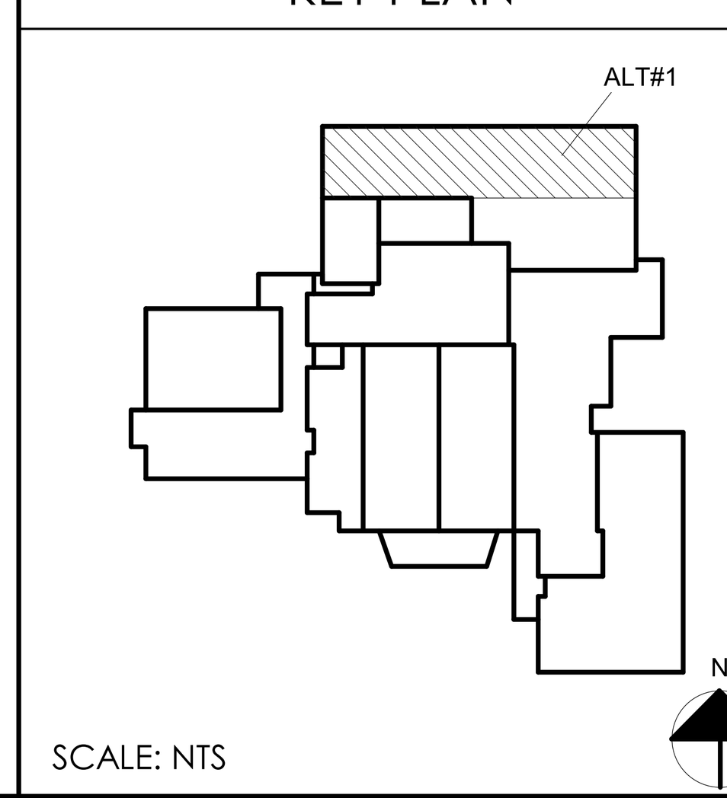
- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXIT LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- TUBULAR SKYLIGHT

KEY PLAN



SCALE: NTS

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RONALD E. MURRELL
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4312
COMMONWEALTH OF KENTUCKY
ARCHITECT

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p 615.255.5537

BG#

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

A7.2

REFLECTED CEILING PLANS

DATE ISSUED:
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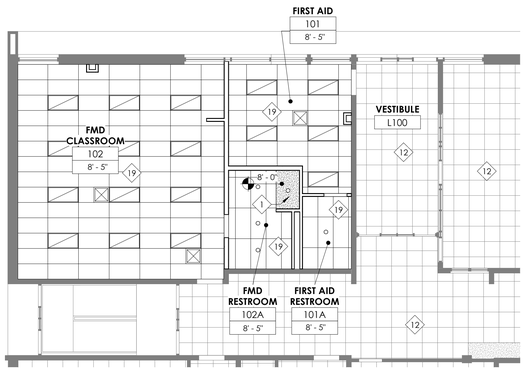
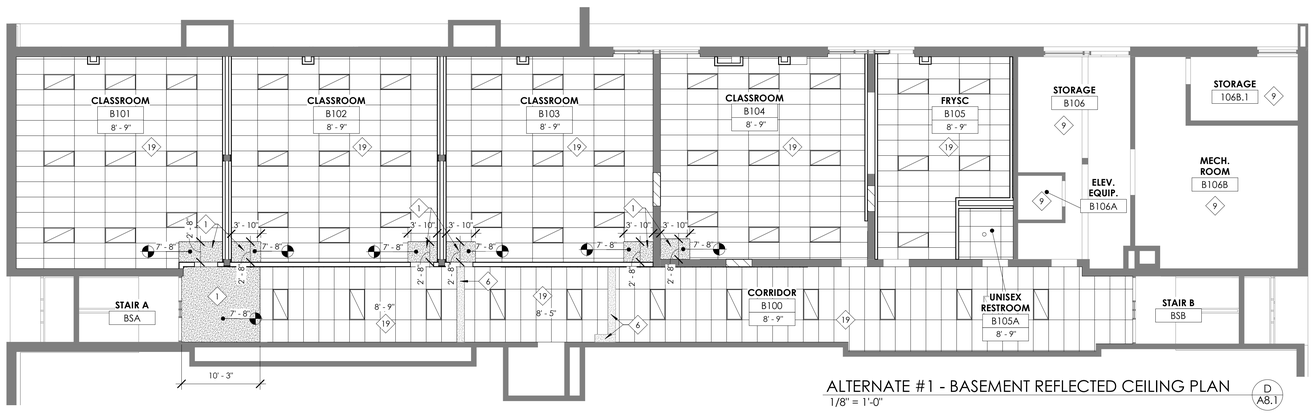
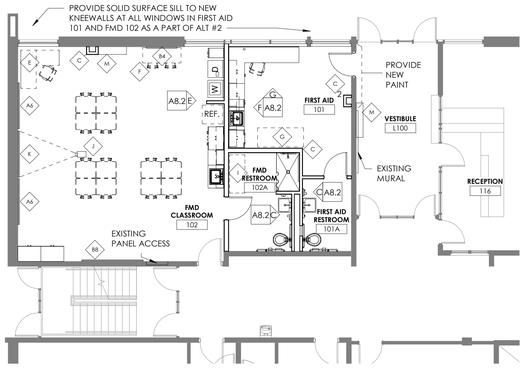


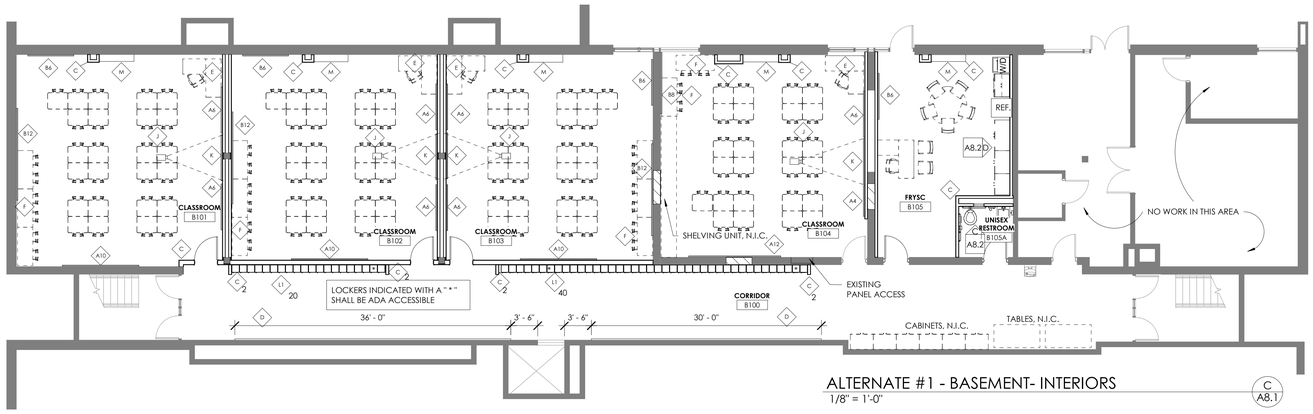
ALT. #2 NEW WORK - REFLECTED CEILING PLAN
1/8" = 1'-0" — H A8.1



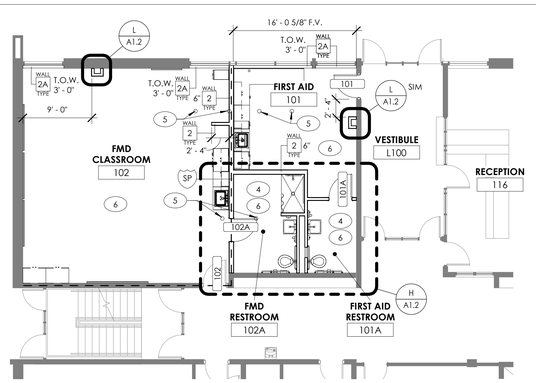
ALTERNATE #1 - BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0" — D A8.1



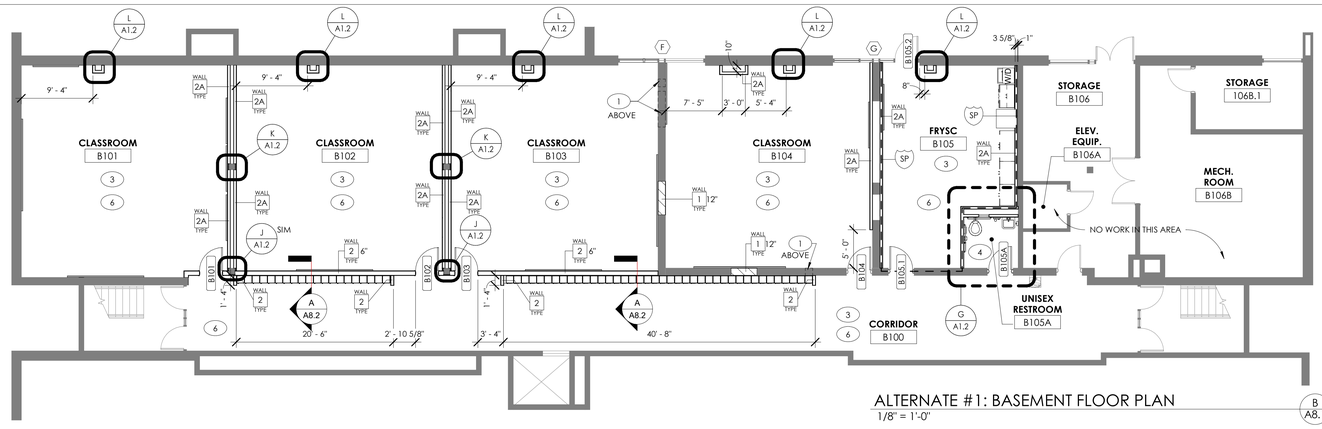
ALTERNATE #2 - FMD AND FIRST AID - INTERIORS
1/8" = 1'-0" — G A8.1



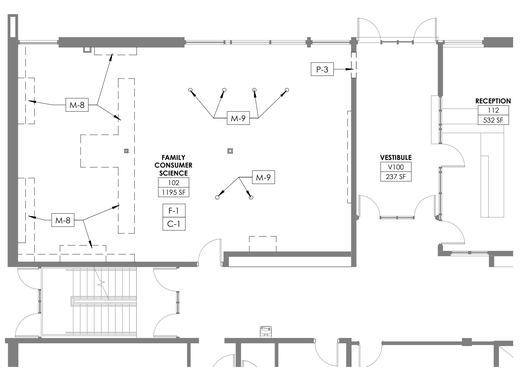
ALTERNATE #1 - BASEMENT- INTERIORS
1/8" = 1'-0" — C A8.1



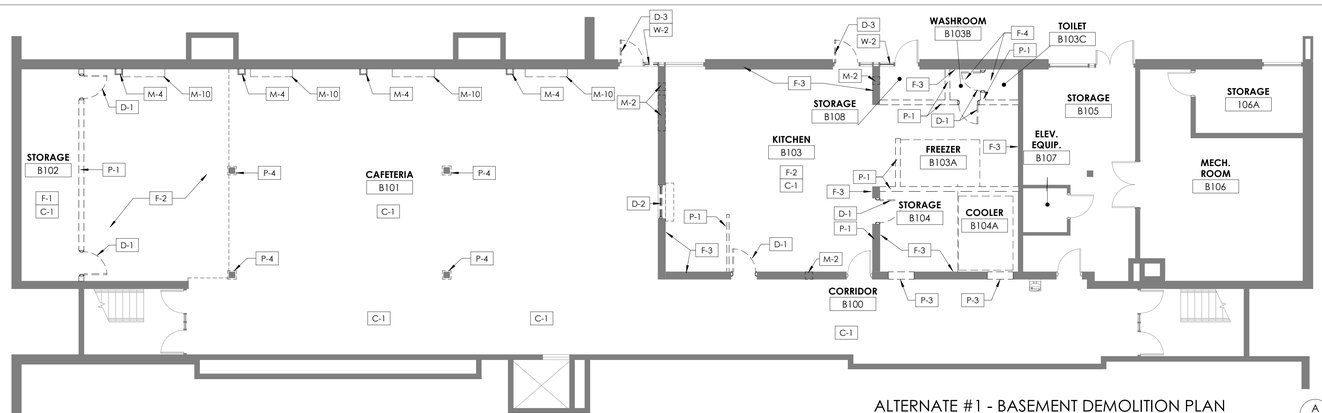
ALT. #2 NEW WORK - FIRST FLOOR PLAN
1/8" = 1'-0" — F A8.1



ALTERNATE #1: BASEMENT FLOOR PLAN
1/8" = 1'-0" — B A8.1



ALT. #2 DEMO WORK - FIRST FLOOR PLAN
1/8" = 1'-0" — E A8.1



ALTERNATE #1 - BASEMENT DEMOLITION PLAN
1/8" = 1'-0" — A A8.1

MATERIAL REFERENCE

RCP NOTES

#	
1	GYPSUM BOARD SOFFIT/BULKHEAD. REFER TO TYPICAL DETAILS. (092116).
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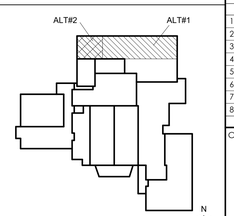
21	INSTALL NEW ACOUSTIC CEILING TILE AND GRID AT SAME HEIGHT AS THE EXISTING. REINSTALL EXISTING CEILING MOUNTED ITEMS IN SAME LOCATION.

PLAN NOTES

#	
1	PROVIDE INFILL CMU - FIELD VERIFY EXISTING OPENING DIMENSIONS. PAINT TO MATCH EXISTING (099000).
2	CAN WASH. SEE PLUMBING AND SITE DRAWINGS.
3	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. WITH REGULAR TYPE X GYP. BD. ABOVE.
4	PROVIDE CEMENT BD. (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM.
5	ATTACH 24 GA. SHEET METAL PLATE TO UNDERSIDE OF EXISTING METAL DECK AT LOCATION OF DEMOLISHED FLOOR OUTLET AND SLEEVE. FILL OPENING WITH GROUT OR CONCRETE AND HOLD 1/8" BELOW EXISTING FINISHED FLOOR. PROVIDE FLOOR FILLER; SMOOTH AND PREP FOR NEW FLOORING. FIELD VERIFY EXISTING OPENING SIZE AND LOCATION.
6	REFER TO SPECIFICATION SECTION 017300 FOR ANY ENCOUNTERED OPENINGS IN THE EXISTING WALLS OR DECK. FIELD VERIFY.

REFER TO SHEET D1.1 FOR DEMO NOTES.

KEY PLAN



SCALE: NTS

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RONALD E. MURRELL — LICENSED ARCHITECT — COMMONWEALTH OF KENTUCKY

ALTERNATES #1 & #2
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Rev'd By:	RM

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CONSTRUCTION DOCUMENTS

A8.1

ALTERNATES #1 & #2

DATE ISSUED:
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REVISIONS		
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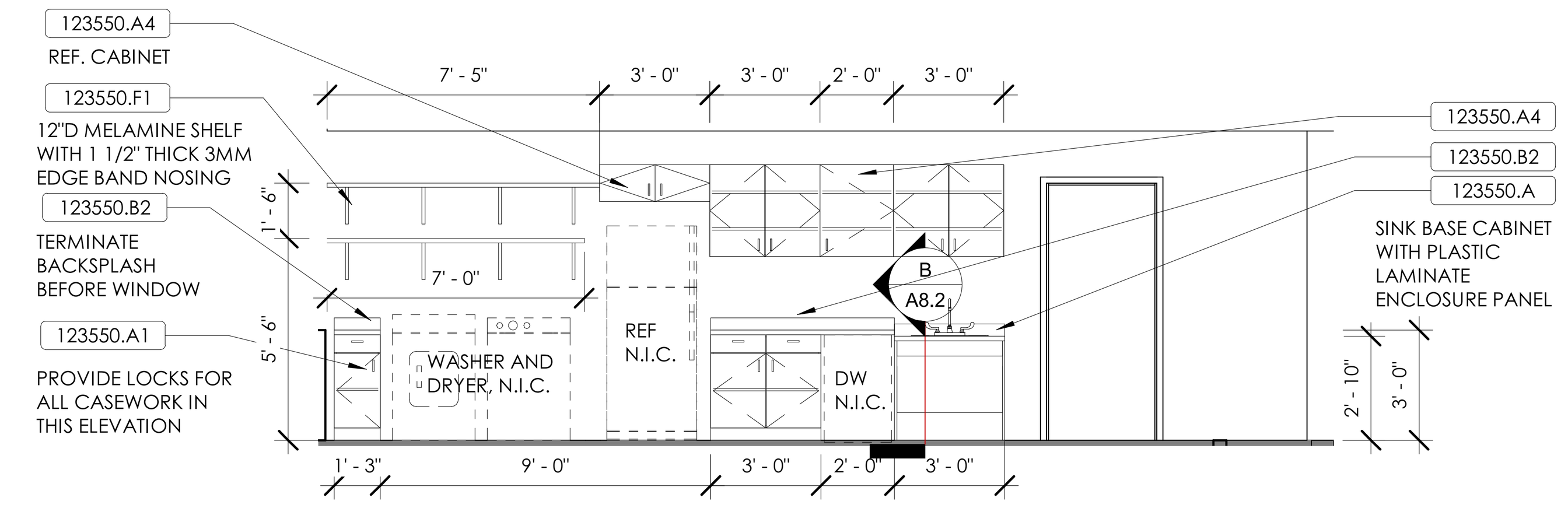
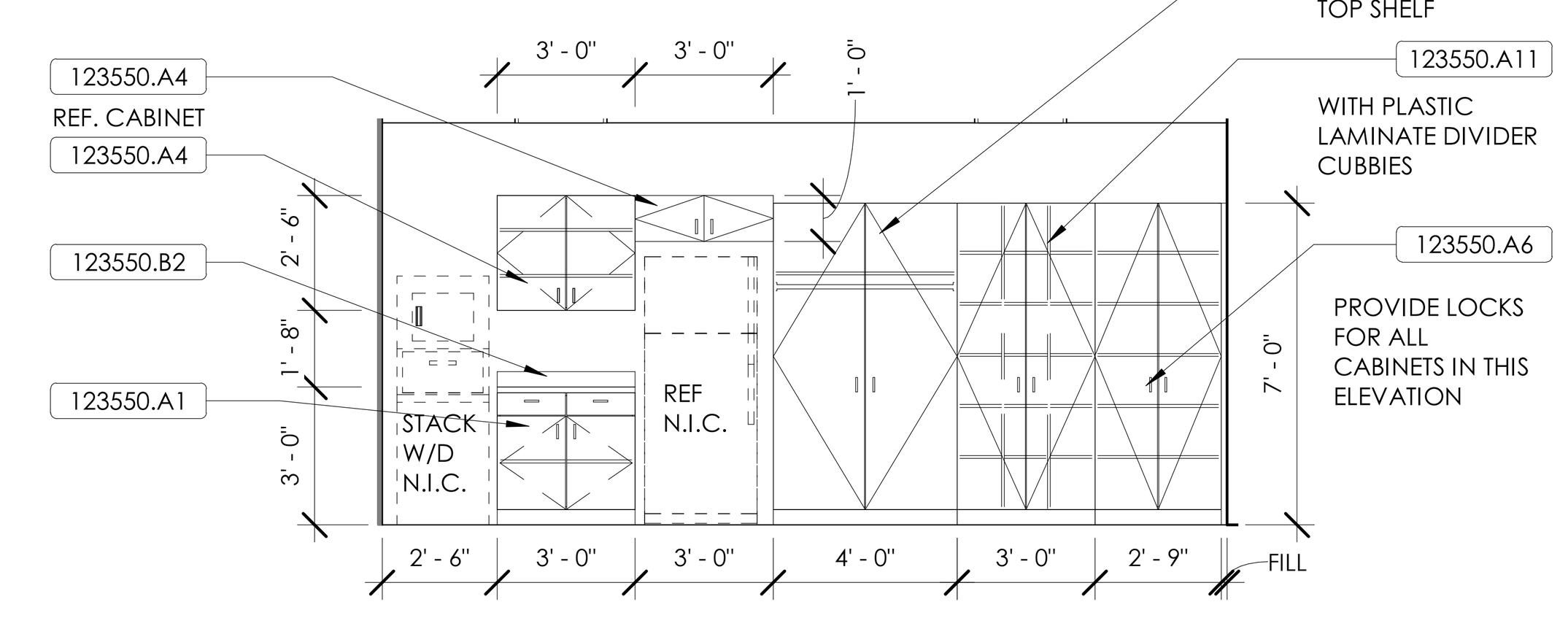
ROOM FINISH SCHEDULE - ALTERNATES

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COMMENTS	Sign Type
101	FIRST AID	Base Bid - ETR; Alt #2 - VCT1	Base Bid - ETR; Alt #2 - RB1-6"	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - ACT1		Base Bid - ETR; Alt #2 - SIGN TYPE 2
101A	FIRST AID RESTROOM	Base Bid - ETR; Alt #2 - CT1	Base Bid - ETR; Alt #2 - CT1 with Schluter	Base Bid - ETR; Alt #2 - P above CT2 wainscot	Base Bid ETR; Alt #2 - P above CT2 wainscot	Base Bid ETR; Alt #2 - P above CT2 wainscot	Base Bid ETR; Alt #2 - P above CT2 wainscot	Base Bid - ETR; Alt #2 - ACT1		Base Bid - ETR; Alt #2 - SIGN TYPE 3
102	FMD CLASSROOM	Base Bid - ETR; Alt #2 - VCT1	Base Bid - ETR; Alt #2 - RB1-6"	Base Bid - ETR; Alt #2 - AP	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - P	Base Bid - ETR; Alt #2 - ACT1		Base Bid - ETR; Alt #2 - SIGN TYPE 2
102A	FMD RESTROOM	Base Bid - ETR; Alt #2 - CT1	Base Bid - ETR; Alt #2 - CT1 with Schluter	Base Bid - ETR; Alt #2 - P above CT2 wainscot	Base Bid ETR; Alt #2 - P above CT2 wainscot	Base Bid ETR; Alt #2 - P above CT2 wainscot	Base Bid ETR; Alt #2 - P above CT2 wainscot	Base Bid - ETR; Alt #2 - ACT1 & P - Gypsum	Alt #2- Provide 2x2 tile on shower walls and 1x1 tile on shower floor.	Base Bid - ETR; Alt #2 - SIGN TYPE 3
139	MEDIA CENTER	Base Bid - ETR; Alt #3 - ETR - Patch VCT at electrical trenching area	ETR	ETR	ETR	ETR	ETR	ETR	Alt #3 - Refer to Electrical sheets for some moving of lights. Intent is to reuse existing ceiling tiles and move them to a new area with lights and replace those areas with existing full ceiling tiles.	ETR
B100	CORRIDOR	ETR	Base Bid - ETR; Alt #1 - RB1-6"	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - ACT2 & P-Gypsum		Base Bid - ETR; Alt #1 - SIGN TYPE 1 (Qty 2)
B101	CLASSROOM	Base Bid - ETR; Alt #1 - VCT1	Base Bid - ETR; Alt #1 - RB1-6"	Base Bid - ETR; Alt #1 - AP	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - ACT1 & P-Gypsum	Terrazzo floor to be prepped for VCT install.	Base Bid - ETR; Alt #1 - SIGN TYPE 1
B102	CLASSROOM	Base Bid - ETR; Alt #1 ETR Terrazzo and areas of T1 patch	Base Bid - ETR; Alt #1 - RB1-6"	Base Bid - ETR; Alt #1 - AP	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - ACT1 & P-Gypsum	Terrazzo floor patch will be minimal, possible area of patch and repair after demo of HVAC unit. Field verify exact quantities and locations.	Base Bid - ETR; Alt #1 - SIGN TYPE 1
B103	CLASSROOM	Base Bid - ETR; Alt #1 ETR Terrazzo and areas of T1 patch	Base Bid - ETR; Alt #1 - RB1-6"	Base Bid - ETR; Alt #1 - AP	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - ACT1 & P-Gypsum	Terrazzo floor patch will be minimal, possible area of patch and repair after demo of HVAC unit. Field verify exact quantities and locations.	Base Bid - ETR; Alt #1 - SIGN TYPE 1
B104	CLASSROOM	Base Bid - ETR; Alt #1 - VCT1	Base Bid - ETR; Alt #1 - RB1-6"	Base Bid - ETR; Alt #1 - AP	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - ACT1 & P-Gypsum	Terrazzo floor to be prepped for VCT install.	Base Bid - ETR; Alt #1 - SIGN TYPE 1
B105	FRYSC	Base Bid - ETR; Alt #1 - VCT1	Base Bid - ETR; Alt #1 - RB1-6"	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - AP	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - P	Base Bid - ETR; Alt #1 - ACT1	Terrazzo floor to be prepped for VCT install.	Base Bid - ETR; Alt #1 - SIGN TYPE 2
B105A	UNISEX RESTROOM	Base Bid - ETR; Alt #1 - CT1	Base Bid - ETR; Alt #1 - CT1 with Schluter	Base Bid - ETR; Alt #1 - P above CT2 wainscot	Base Bid - ETR; Alt #1 - P above CT2 wainscot	Base Bid - ETR; Alt #1 - P above CT2 wainscot	Base Bid - ETR; Alt #1 - P above CT2 wainscot	Base Bid - ETR; Alt #1 - ACT1		Base Bid - ETR; Alt #1 - SIGN TYPE 3
L100	VESTIBULE	Base Bid - ETR; Alt #2 - ETR and Patch Terrazzo with T1 where heat unit is removed	ETR	ETR	ETR	ETR	Patch and paint area of heat unit replacement	ACT2	Take care with existing mural. New HVAC unit will be in front of part of mural. Terrazzo floor patch will be minimal, possible area of patch and repair after demo of HVAC unit. Field verify exact quantities and locations.	NA

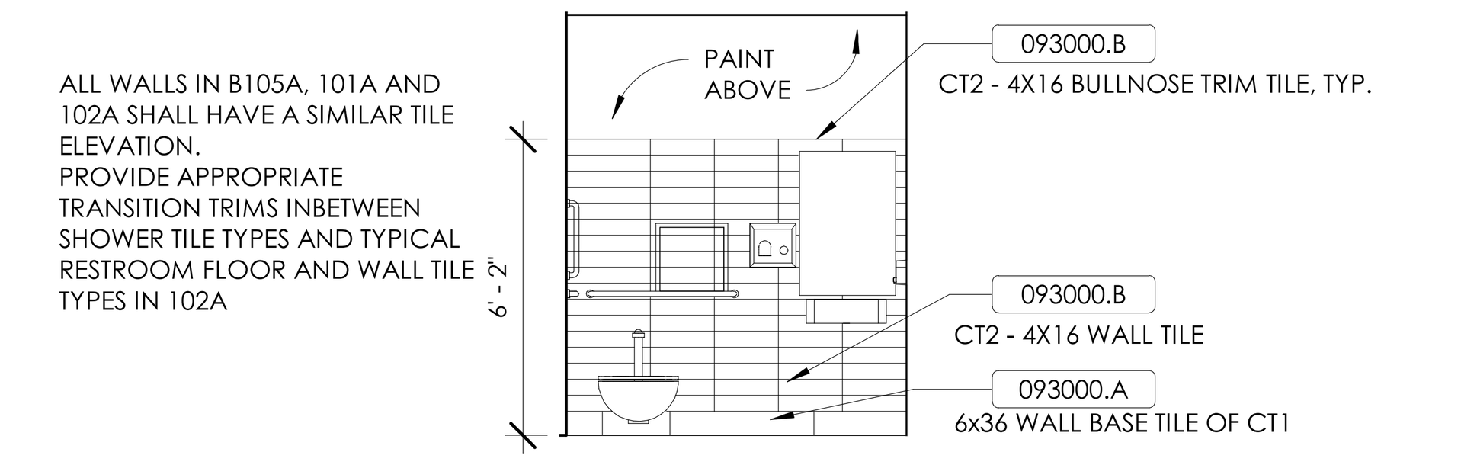


ALT #2 - FMD - PLAN EAST
1/4" = 1'-0" (E / A8.2)

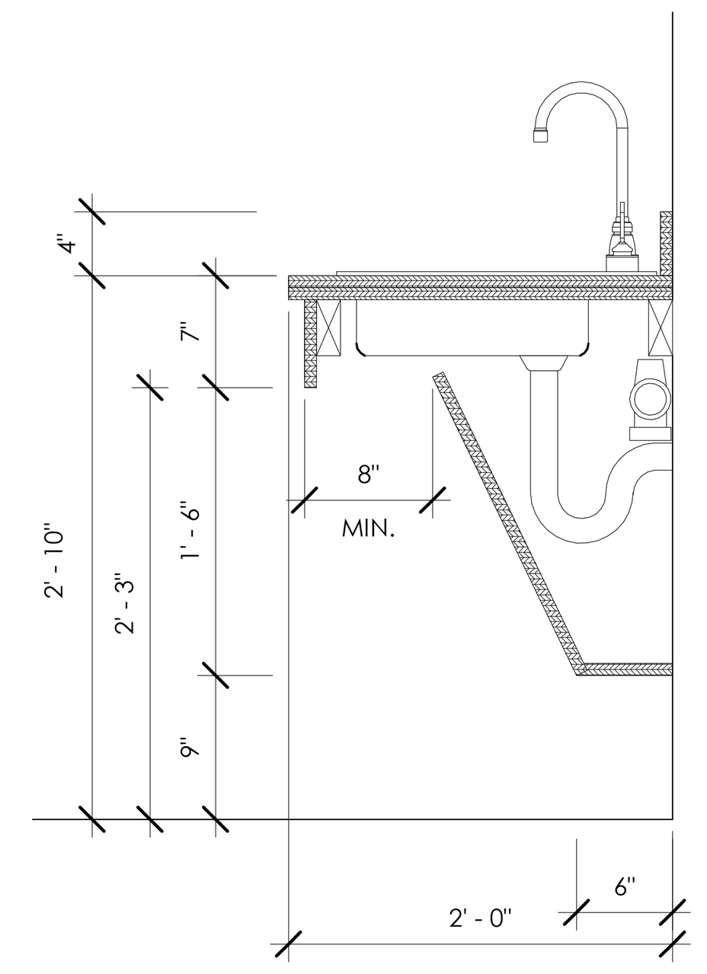


ALT #2 - FRYSC - PLAN EAST
1/4" = 1'-0" (D / A8.2)

ALL WALLS IN B105A, 101A AND 102A SHALL HAVE A SIMILAR TILE ELEVATION. PROVIDE APPROPRIATE TRANSITION TRIMS INBETWEEN SHOWER TILE TYPES AND TYPICAL RESTROOM FLOOR AND WALL TILE TYPES IN 102A



ALT #1 AND #2 RESTROOM WALLS
1/4" = 1'-0" (C / A8.2)



PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEET ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET CONSTRUCTION WITH SINK SIZES AND LOCATIONS.

ADA ACCESSIBILITY GUIDELINES
4.19.2 LAVATORY HEIGHTS & CLEARANCES

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 IN (865 mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 IN (735 mm)
ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. THE FOLLOWING KNEE CLEARANCE
IS REQUIRED UNDERNEATH THE LAVATORY: 27 IN (685 mm) MINIMUM FROM THE FLOOR TO
THE UNDERSIDE OF THE LAVATORY WHICH EXTENDS 8 IN (205 mm) MINIMUM MEASURED FROM THE FRONT EDGE UNDERNEATH THE LAVATORY BACK TOWARDS THE WALL; IF A MINIMUM 9 IN (230 mm) OF TOE CLEARANCE IS PROVIDED, A MAXIMUM OF 6 IN (150 mm) OF THE 48 IN (1220 mm) OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE. (4.19.2, 4.19.6)

EXCEPTION 1: LAVATORIES USED PRIMARILY BY CHILDREN AGES 6 THROUGH 12 SHALL BE
PERMITTED TO HAVE AN APRON CLEARANCE AND A KNEE CLEARANCE 24 IN (610 mm) HIGH
MINIMUM PROVIDED THAT THE RIM OR COUNTER SURFACE IS NO HIGHER THAN 30 IN (760 mm).

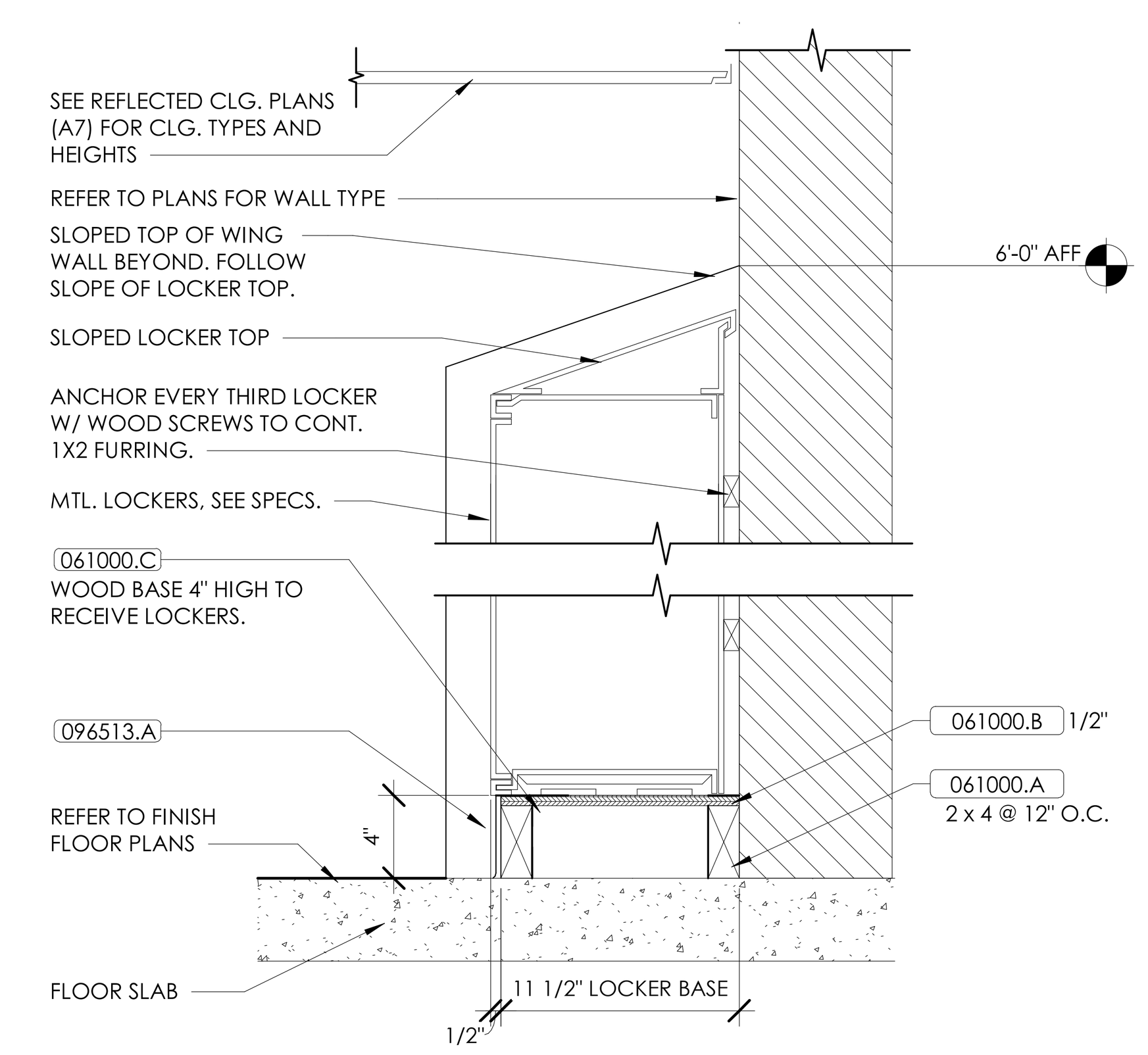
EXCEPTION 2: LAVATORIES USED PRIMARILY BY CHILDREN AGES 5 AND YOUNGER SHALL NOT
BE REQUIRED TO MEET THESE CLEARANCES IF CLEAR FLOOR SPACE FOR A PARALLEL APPROACH COMPLYING WITH 4.2.4 IS PROVIDED.

FOR MORE INFORMATION, REFER TO: http://www.access-board.gov/adaag/html/adaag.htm#4.19

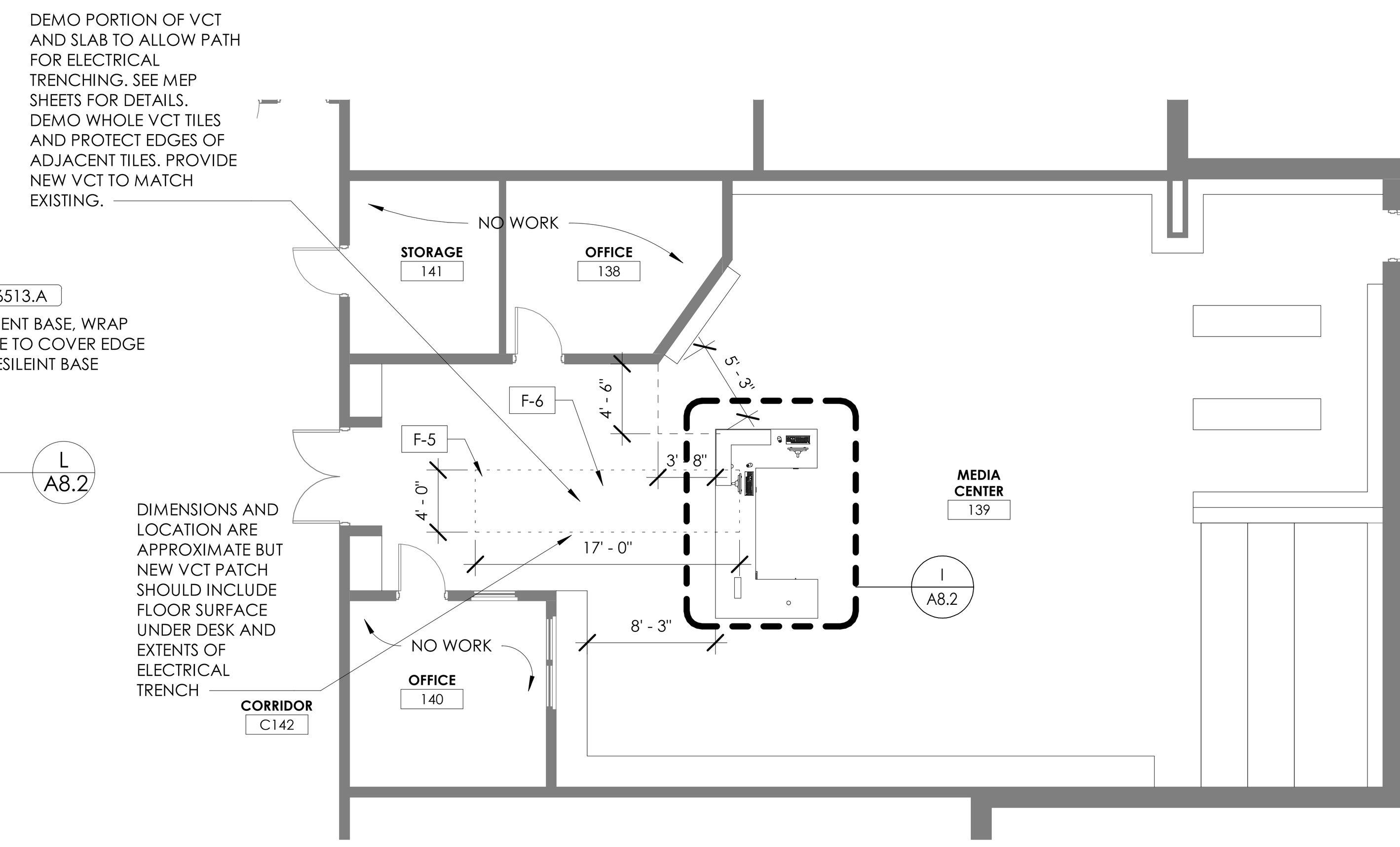
PER 306.3 & 306.2

NOTE: SPEC. 123550

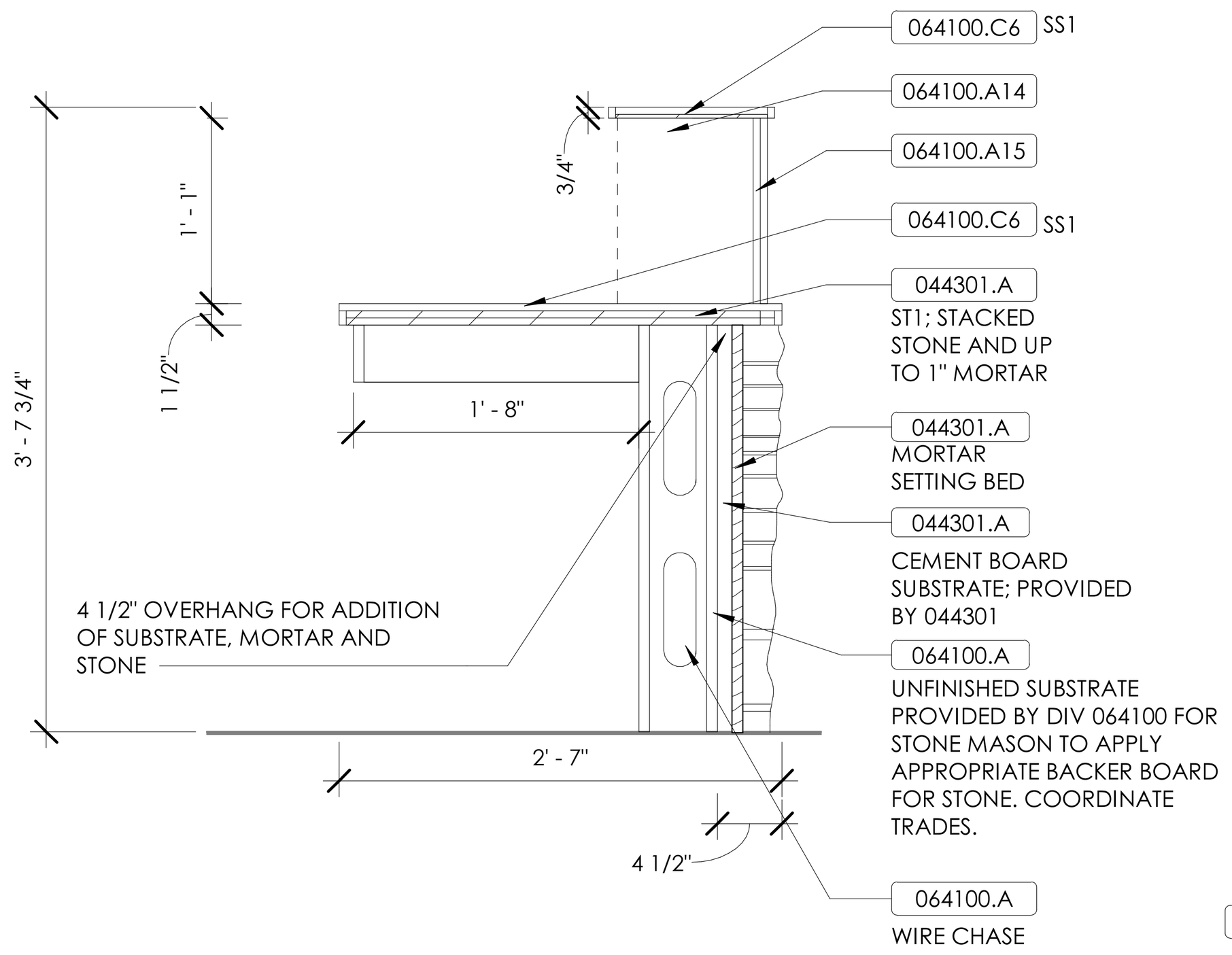
ADA SINK SECTION
1" = 1'-0" (B / A8.2)



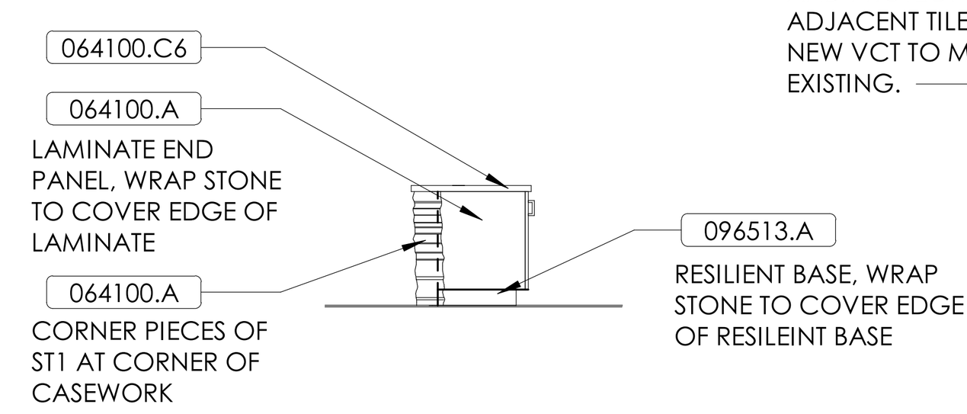
LOCKER BASE DETAIL
1 1/2" = 1'-0" (A / A8.2)



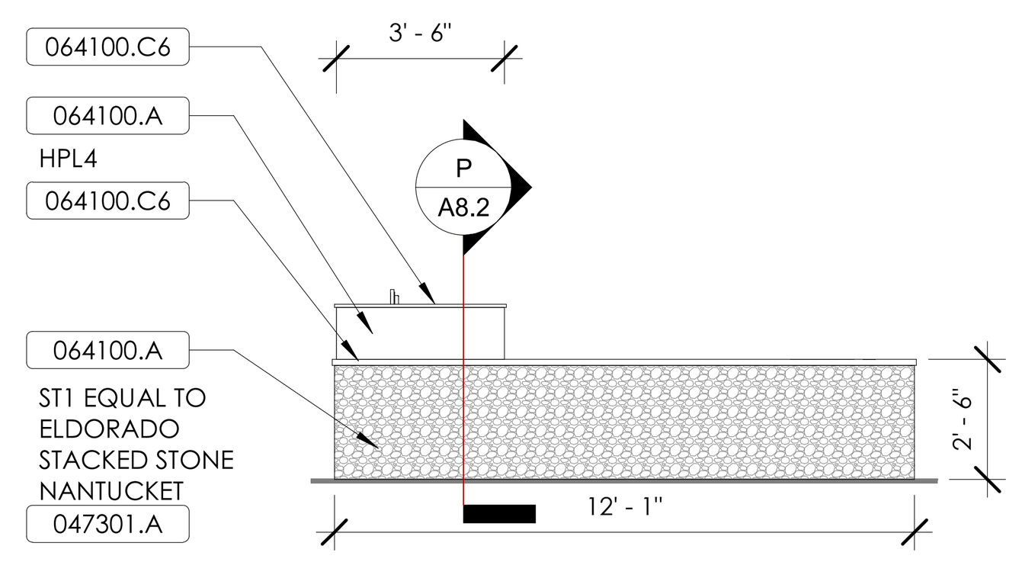
ALT. #3 MEDIA CENTER - INTERIORS PLAN
1/8" = 1'-0" (H / A8.2)



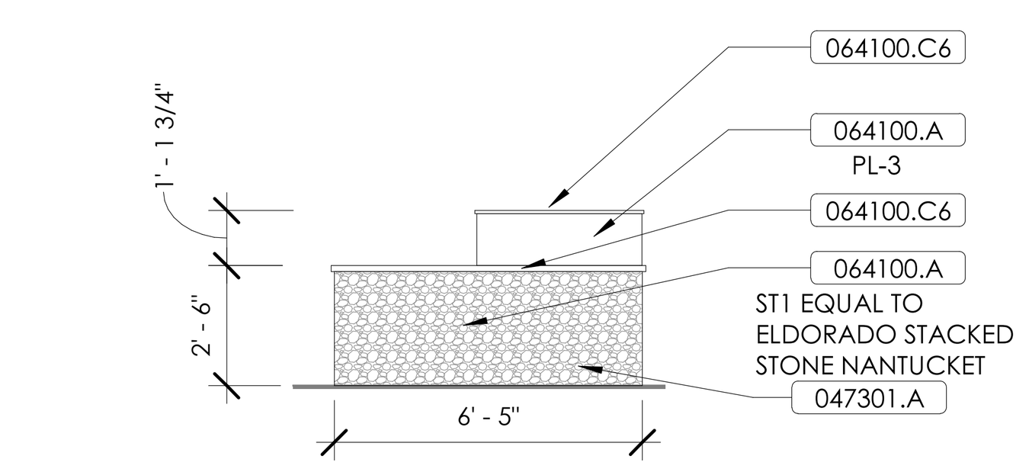
CIRC DESK SECTION
1" = 1'-0" (P / A8.2)



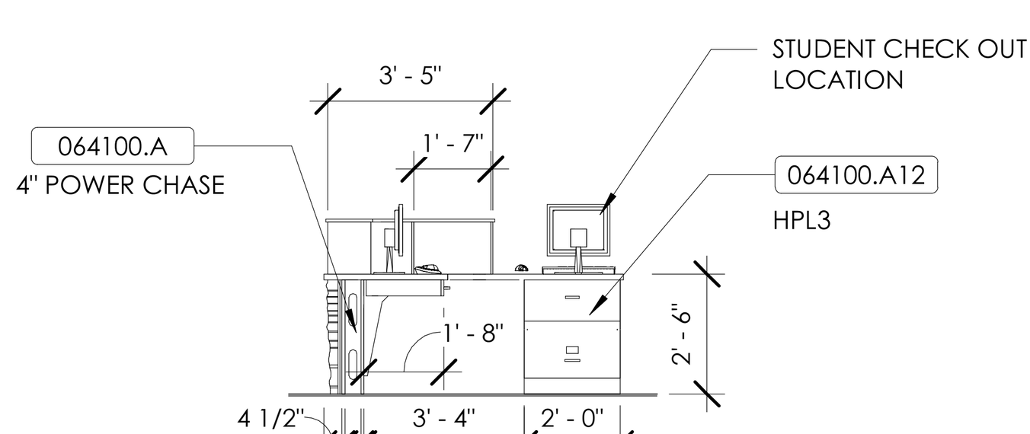
ALT #3 - CIRC DESK - END
1/4" = 1'-0" (L / A8.2)



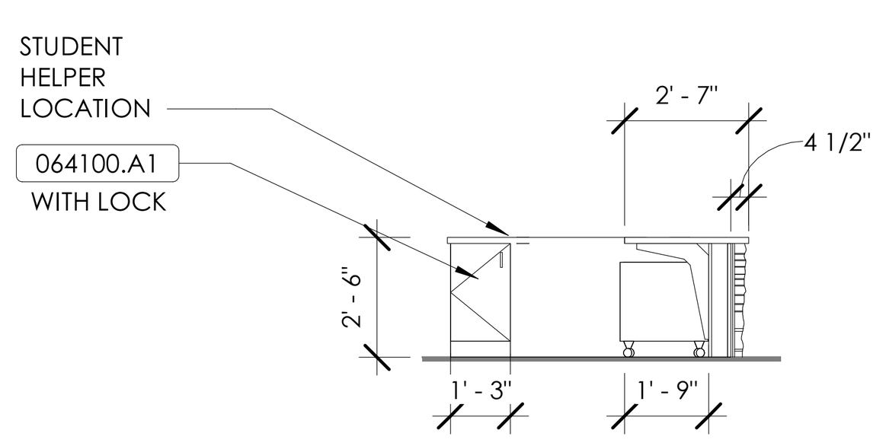
ALT #3 - CIRC DESK - EXTERIOR - LONG
1/4" = 1'-0" (K / A8.2)



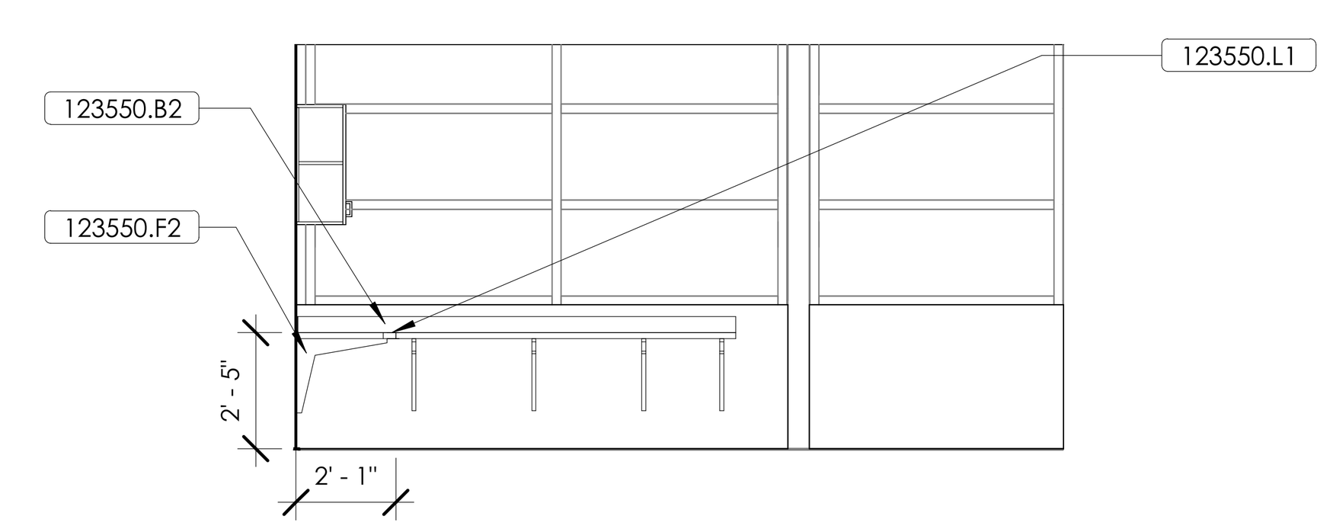
ALT #3 - CIRC DESK - EXTERIOR - SHORT
1/4" = 1'-0" (O / A8.2)



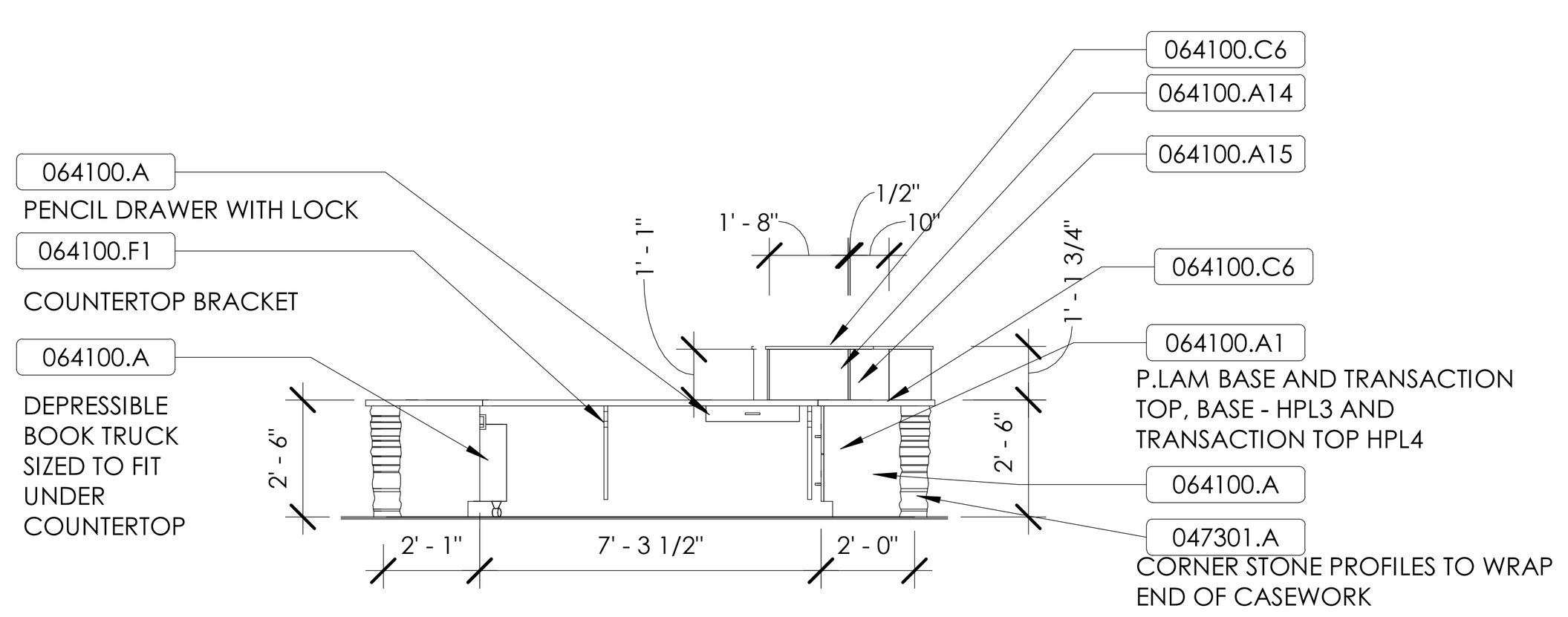
ALT #3 - CIRC DESK - INTERIOR RIGHT
1/4" = 1'-0" (J / A8.2)



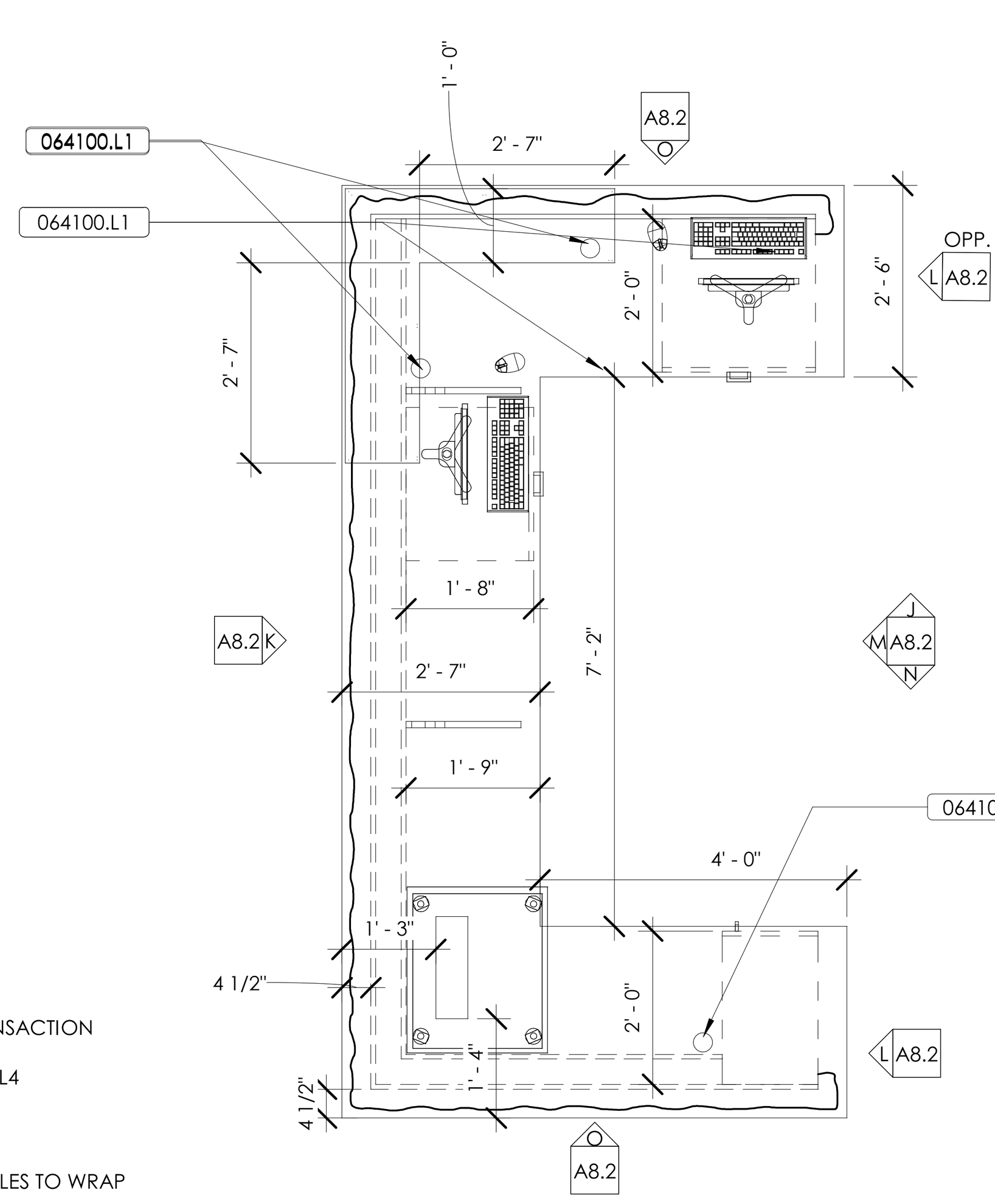
ALT #3 - CIRC DESK - INTERIOR LEFT
1/4" = 1'-0" (N / A8.2)



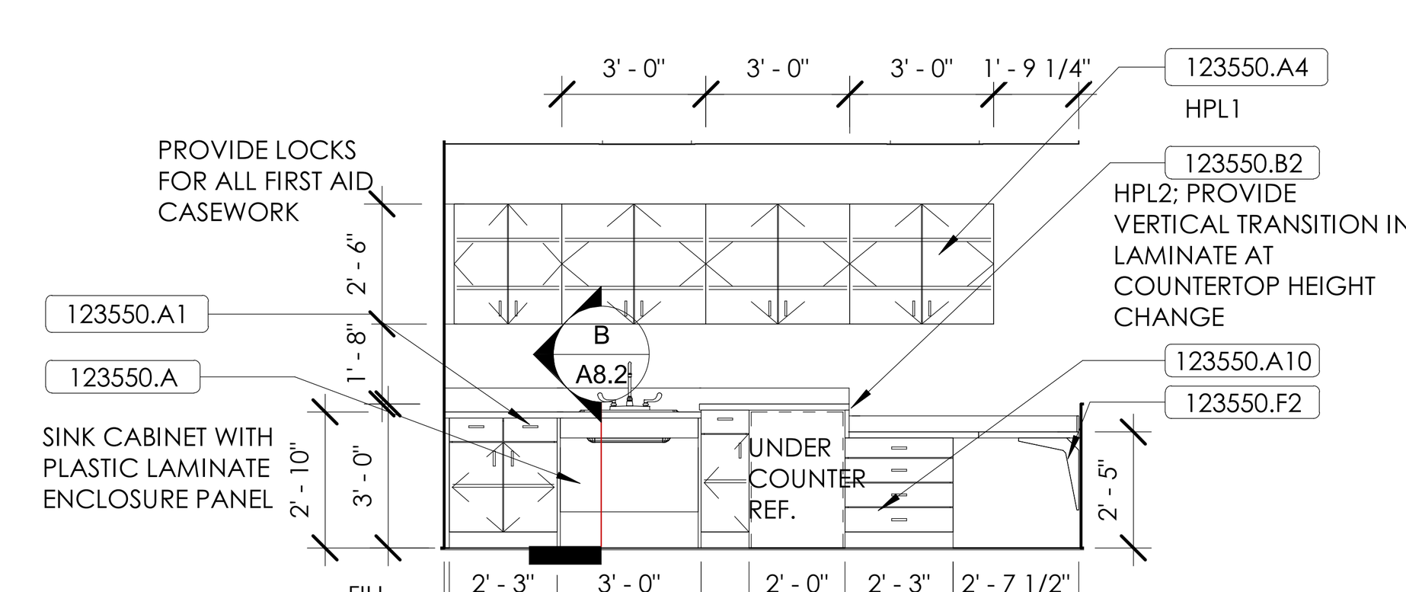
ALT#2 - FIRST AID - PLAN NORTH
1/4" = 1'-0" (G / A8.2)



ALT #3 - CIRC DESK - MAIN INTERIOR
1/4" = 1'-0" (M / A8.2)



ALT #3 - CIRC DESK - ENLARGED
1/2" = 1'-0" (I / A8.2)

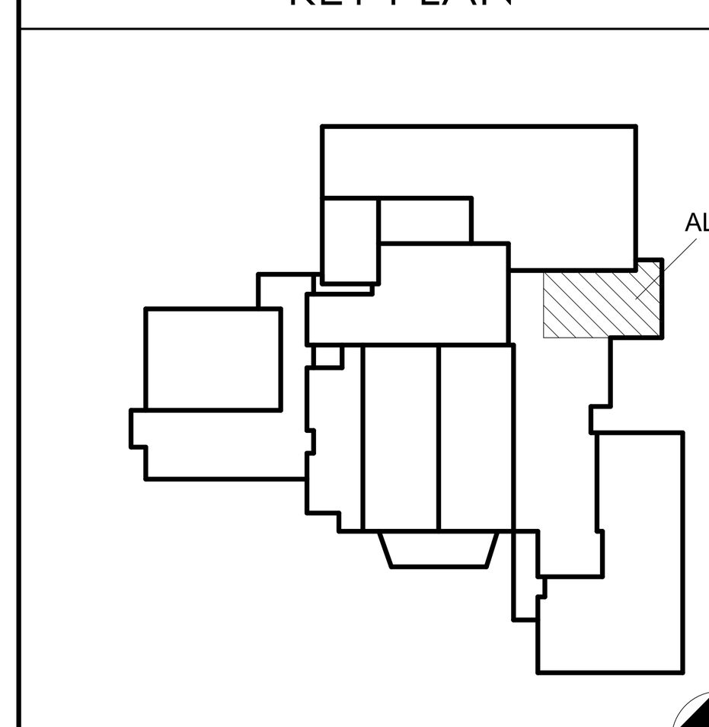


ALT #2 - FIRST AID - PLAN WEST
1/4" = 1'-0" (F / A8.2)

MATERIAL REFERENCE

044301.A	Stone Masonry Veneer
047301.A	Cultured Stone Veneer
061000.A	Wood Blocking
061000.B	Plywood Sheathing
061000.C	Wood Framing
064100.A	Custom Casework
064100.A1	Plastic Laminate Base Cabinet
064100.A12	Plastic Laminate Box, File w/ Hanging Hardware
064100.A14	Plastic Laminate Covered Vertical Support Panel
064100.A15	Tackable, Fabric Wrapped Panel
064100.C6	Solid-Surface Countertop
064100.F1	Shelf Bracket
064100.L1	3 1/2" Dia Grommet Sleeve
093000.A	Ceramic Tile
093000.B	Wall Tile
096513.A	Resilient Wall Base & Accessories
123550.A	Institutional Casework
123550.A1	Plastic Laminate Base Cabinet
123550.A4	Plastic Laminate Wall Cabinet
123550.A6	Plastic Laminate Full-Ht. Storage Cabinet & Lock
123550.A10	Plastic Laminate Drawer Base Cabinet
123550.A11	Plastic Laminate Full-Height Storage Cabinet
123550.B2	Plastic Laminate Countertop & Backsplash
123550.F1	Shelf Bracket (match A&M Hardware, Size for Shelf Depth)
123550.F2	Countertop Support w/ In-Wall Blocking @ 32" O.C. (match A&M Hardware, size for Counter Depth)
123550.L1	3-1/2" Dia. Grommet Sleeve

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL JR. REGISTERED No. 4369 COMMONWEALTH OF KENTUCKY ARCHITECT

ALTERNATE #3 & ALL ALT DETAILS

BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: KC
Rev'd By: DC

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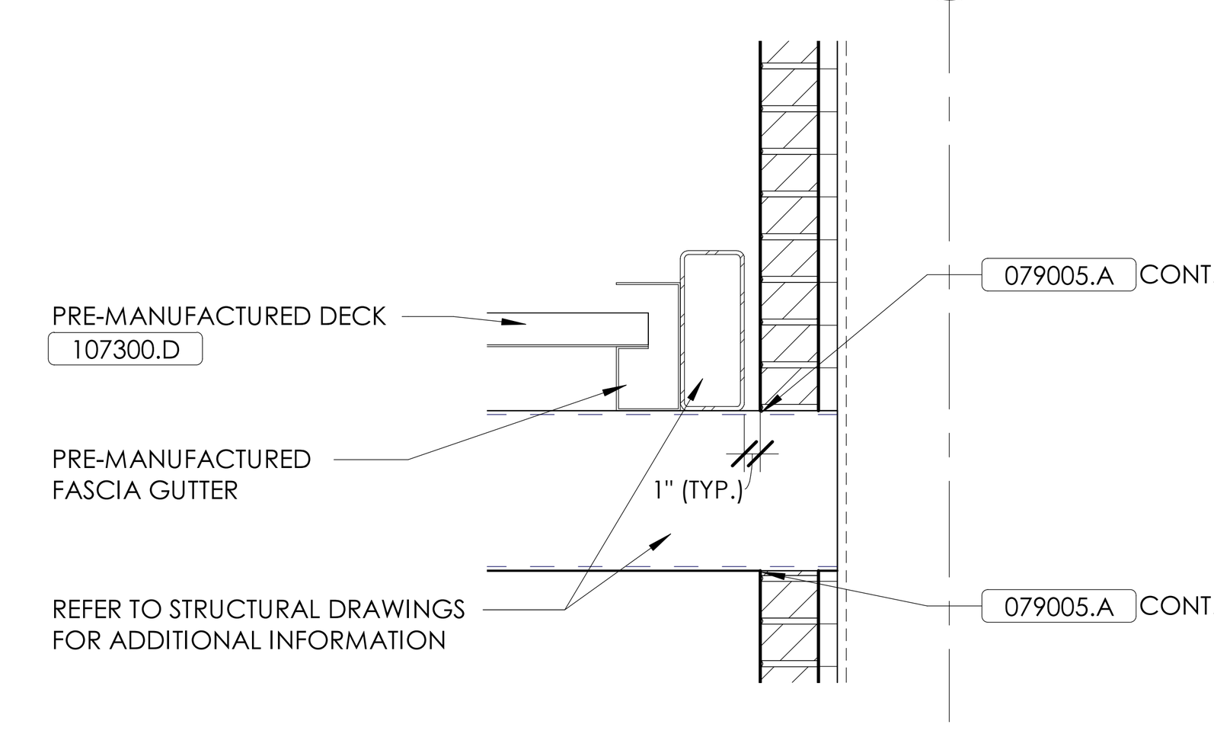
CONSTRUCTION DOCUMENTS

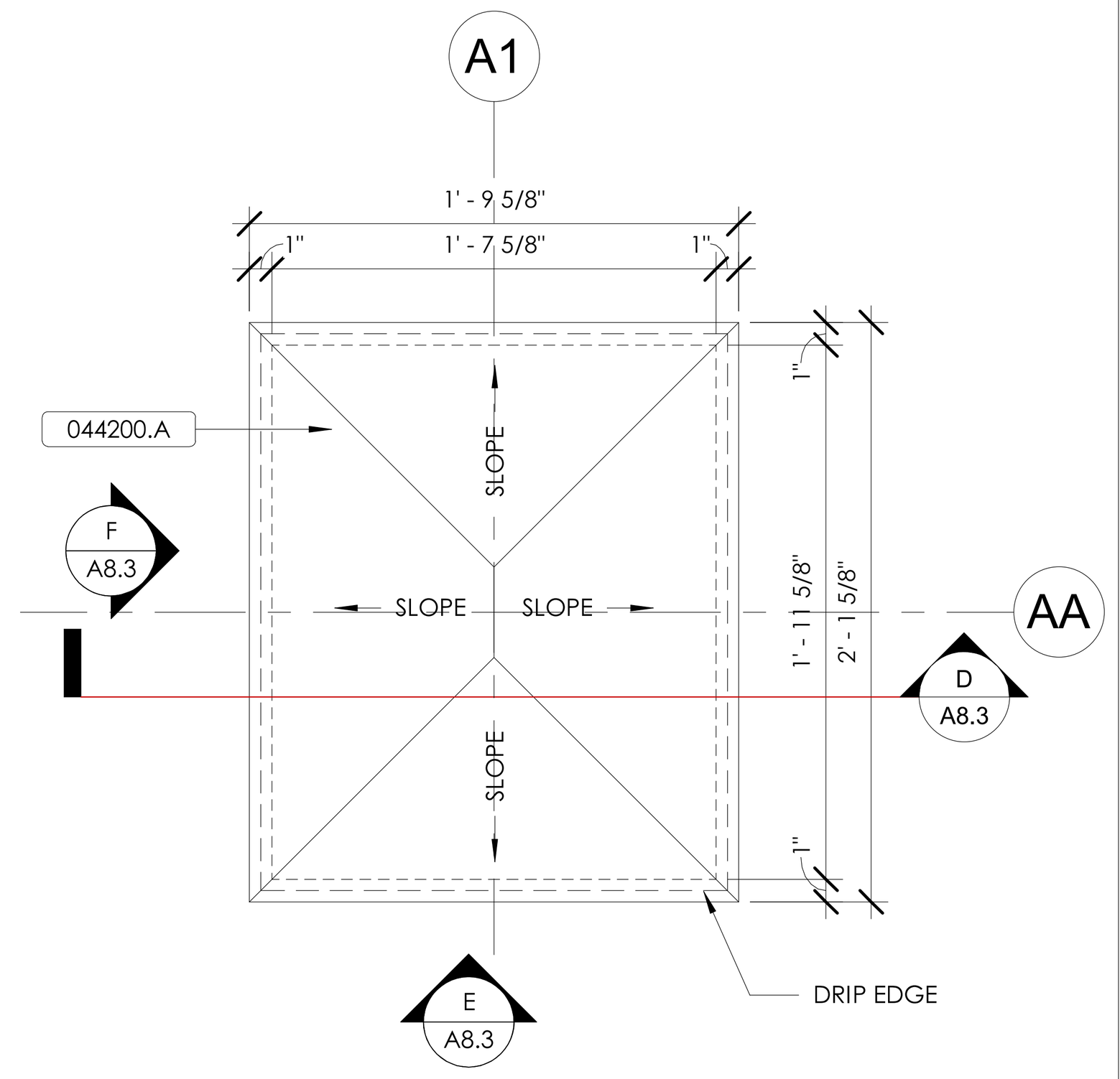
A8.2

ALTERNATE #3 & ALL ALT DETAILS
DATE ISSUED: 9/13/19

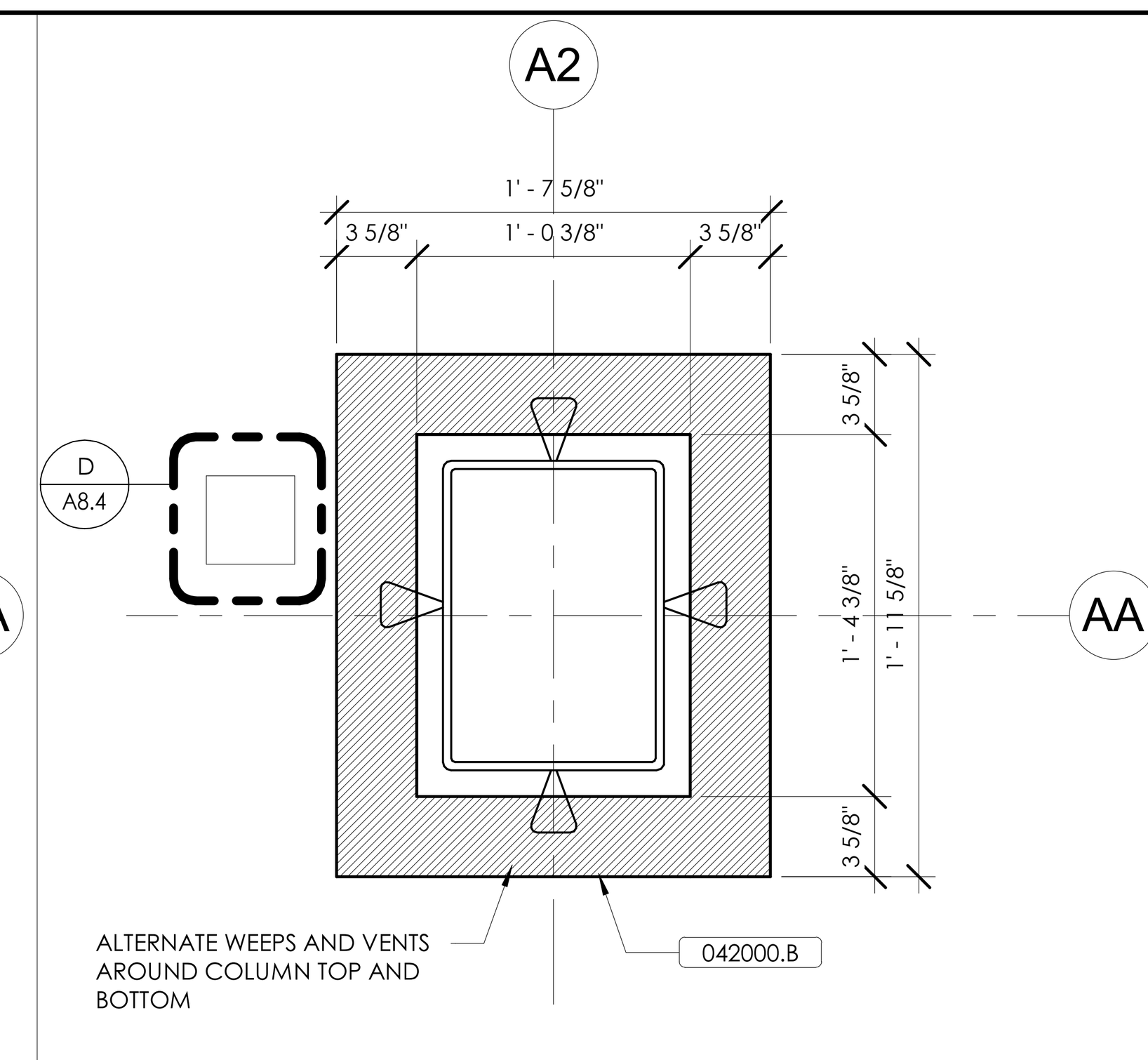
REVISIONS		
#	DATE	DESCRIPTION



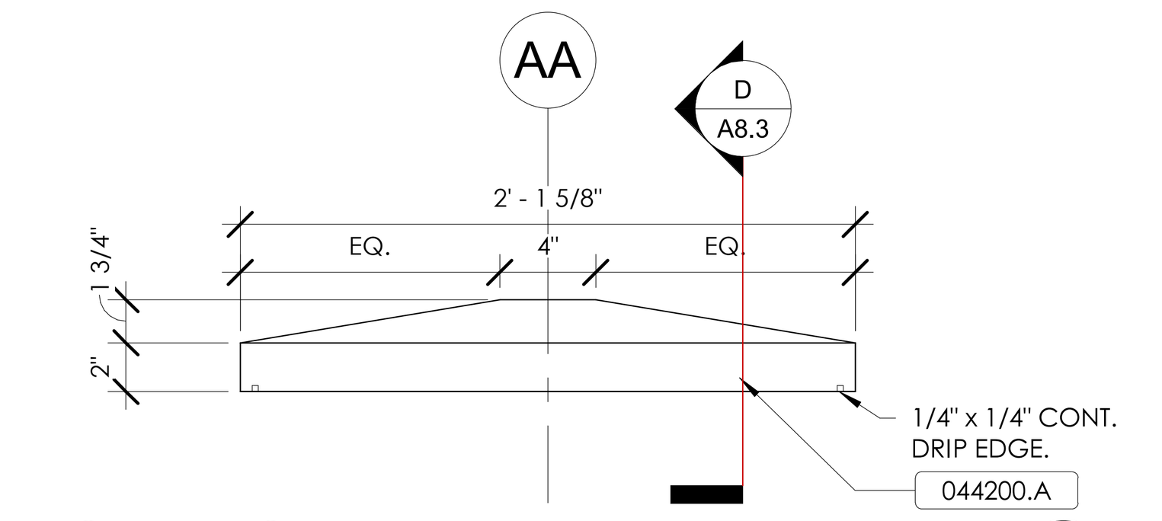
CANOPY DETAIL
1" = 1'-0"
P A8.3



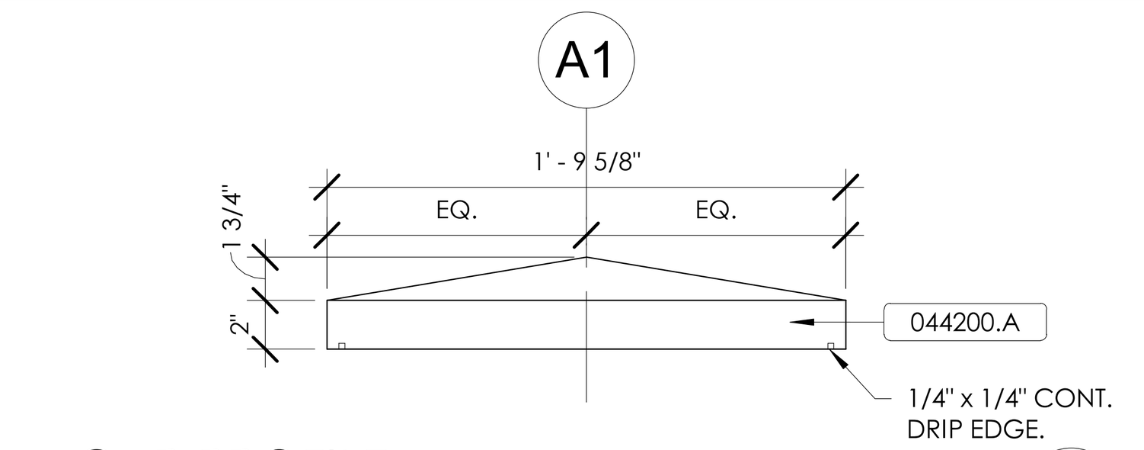
ALT. #4 Roof - Callout 1
1 1/2" = 1'-0"
L A8.3



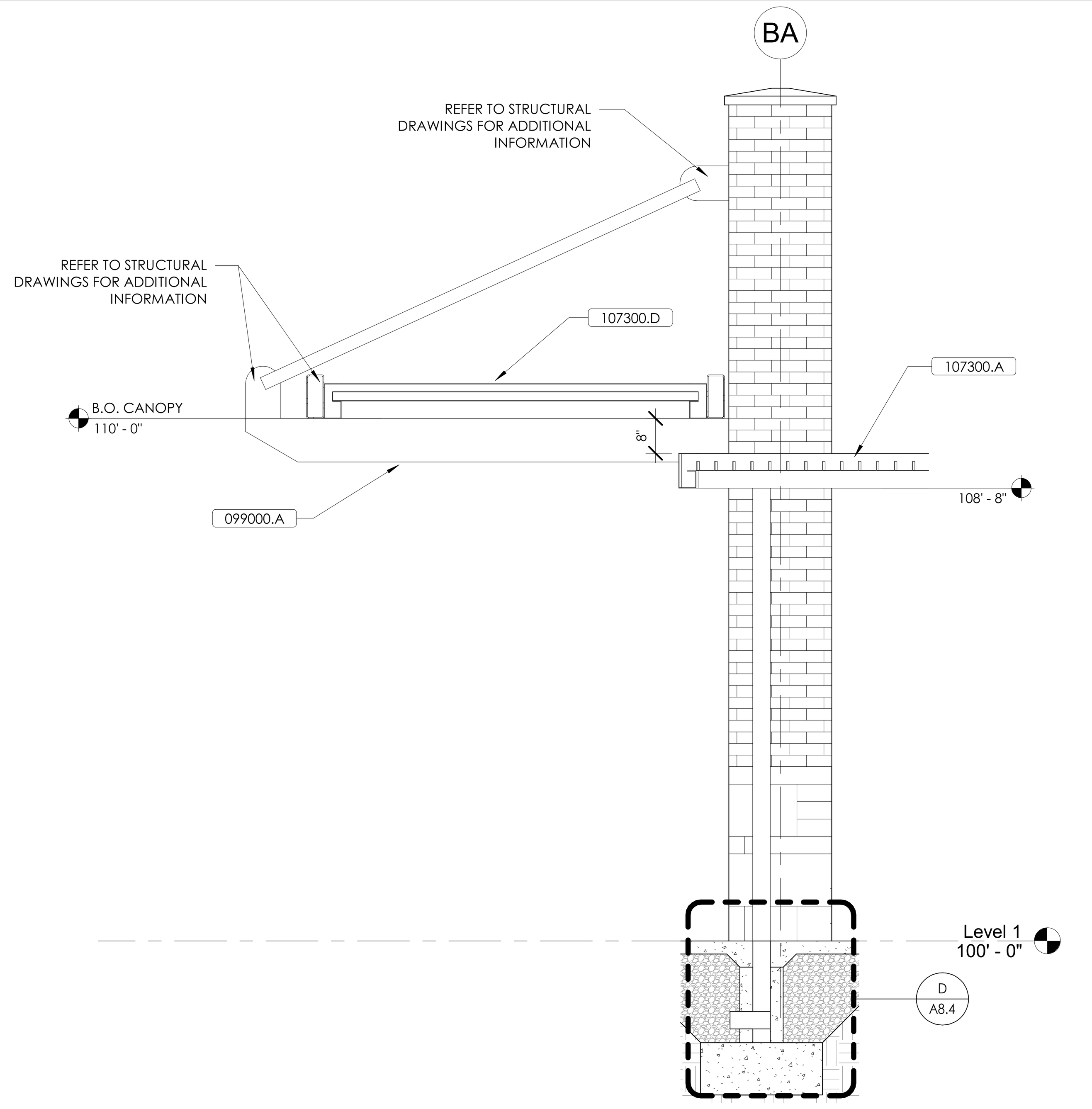
Alt. #4 - COLUMN DETAIL
1 1/2" = 1'-0"
K A8.3



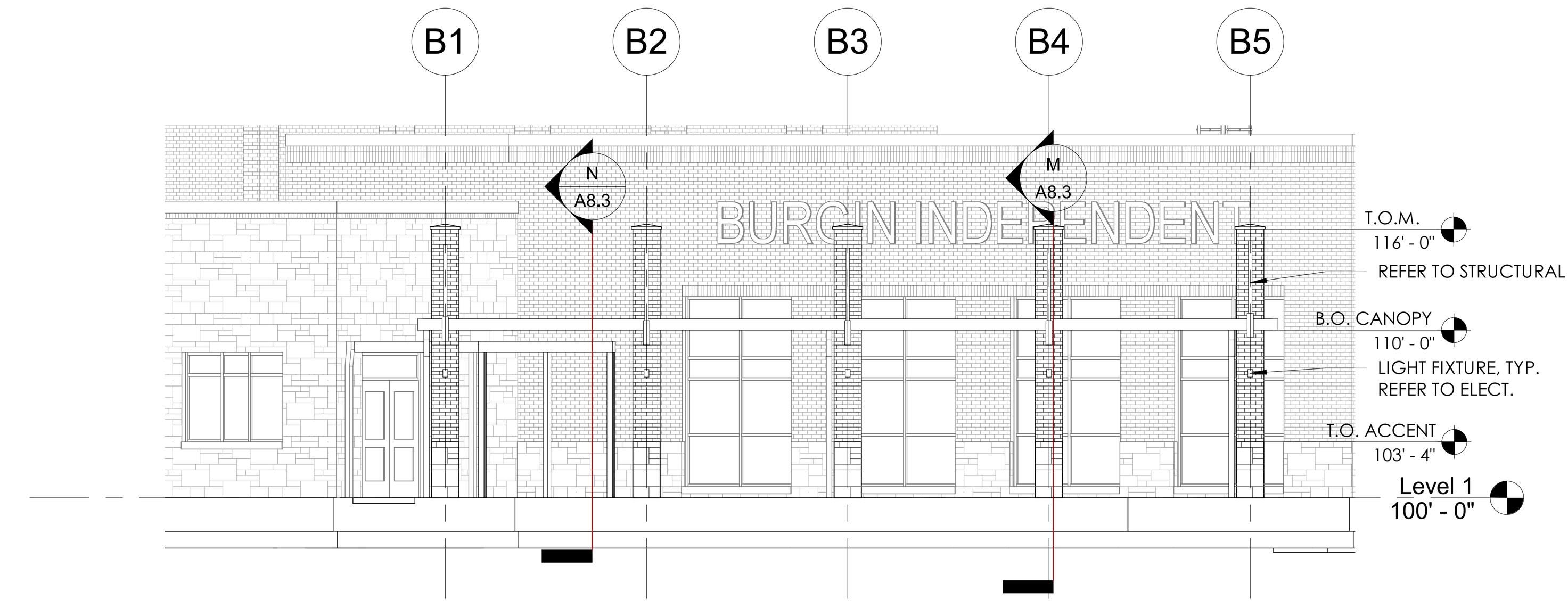
CAP PROFILE
1 1/2" = 1'-0"
F A8.3



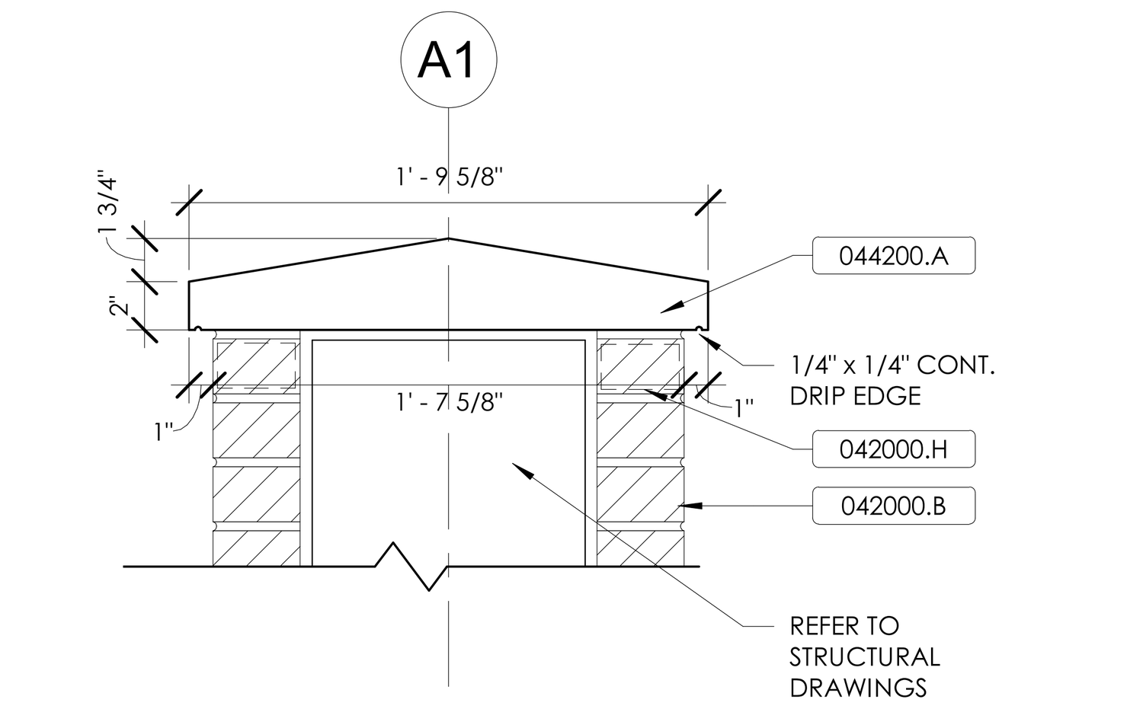
CAP PROFILE
1 1/2" = 1'-0"
E A8.3



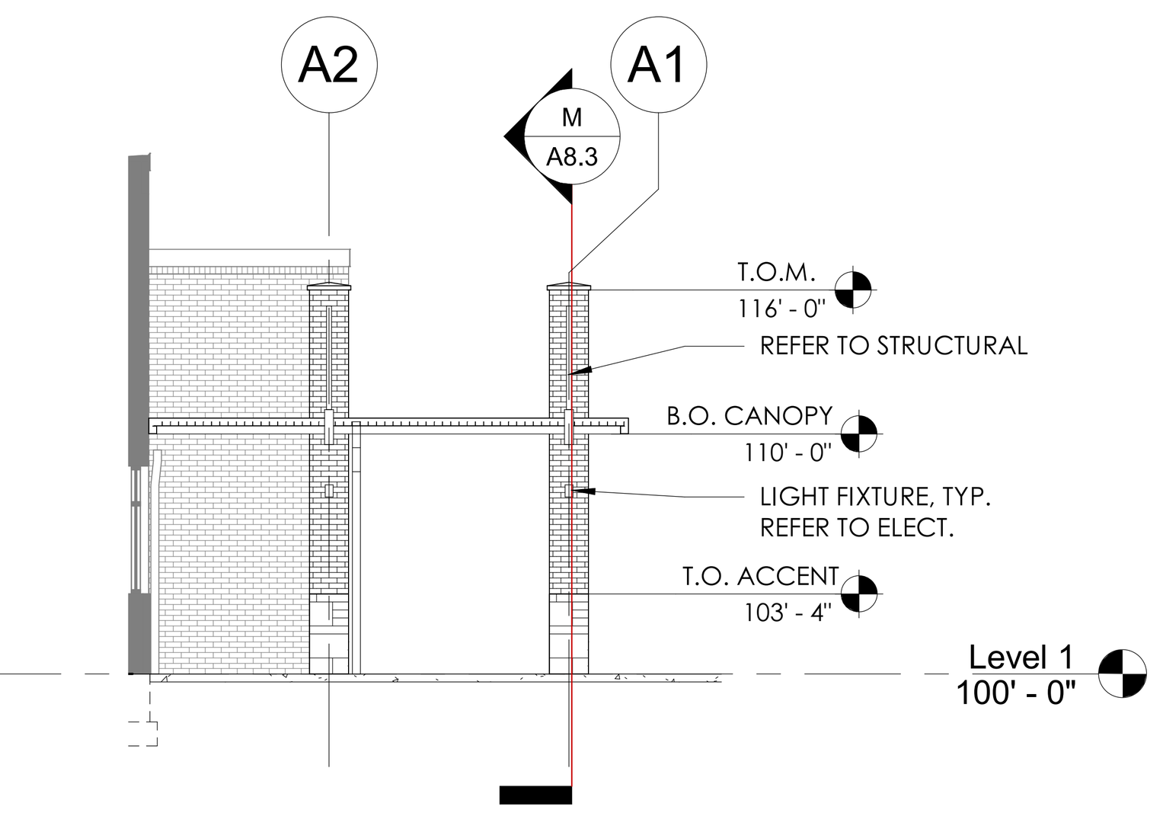
ALT. #5 CANOPY SECTION
1/2" = 1'-0"
N A8.3



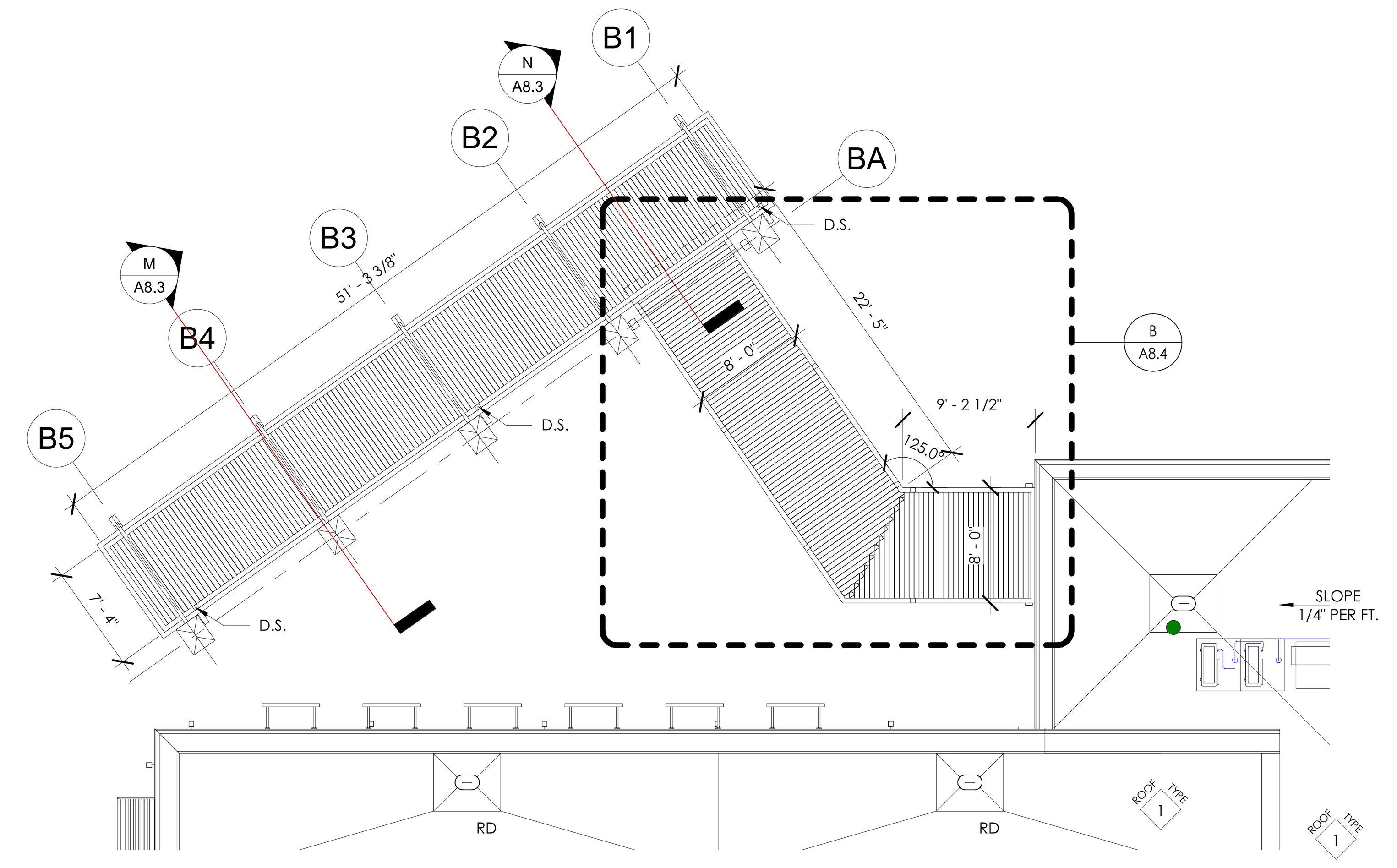
ALTERNATE #5 - CANOPY ELEVATION
1/8" = 1'-0"
J A8.3



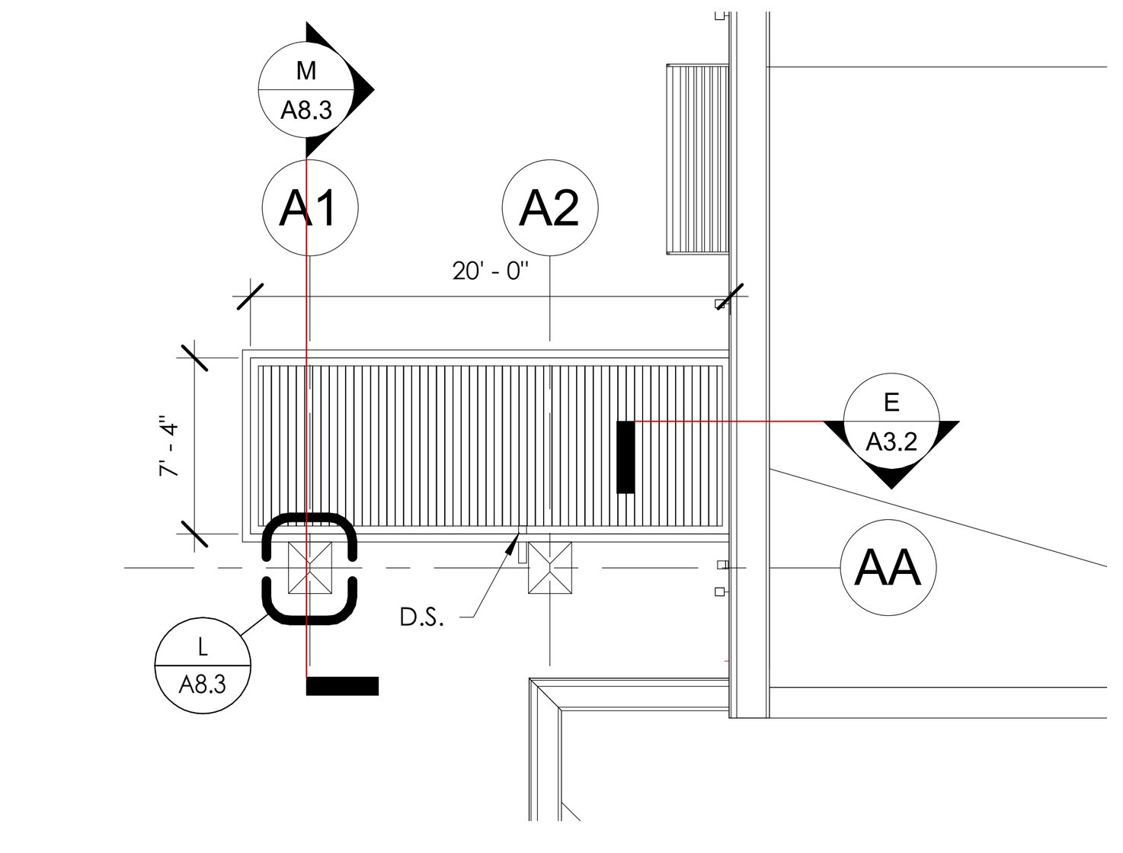
SECTION DETAIL
1 1/2" = 1'-0"
D A8.3



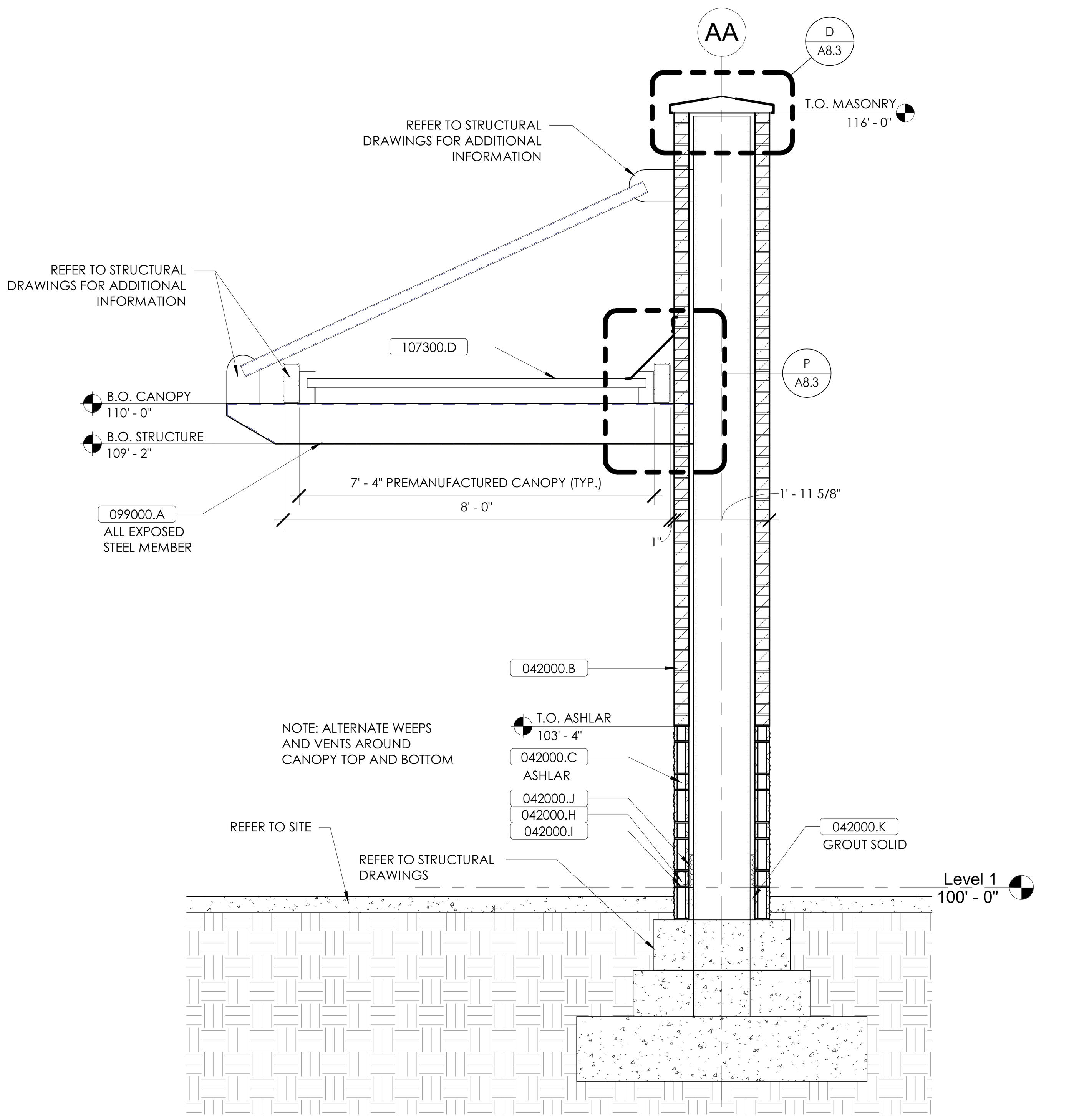
ALTERNATE #4 - CANOPY ELEVATION
1/8" = 1'-0"
C A8.3



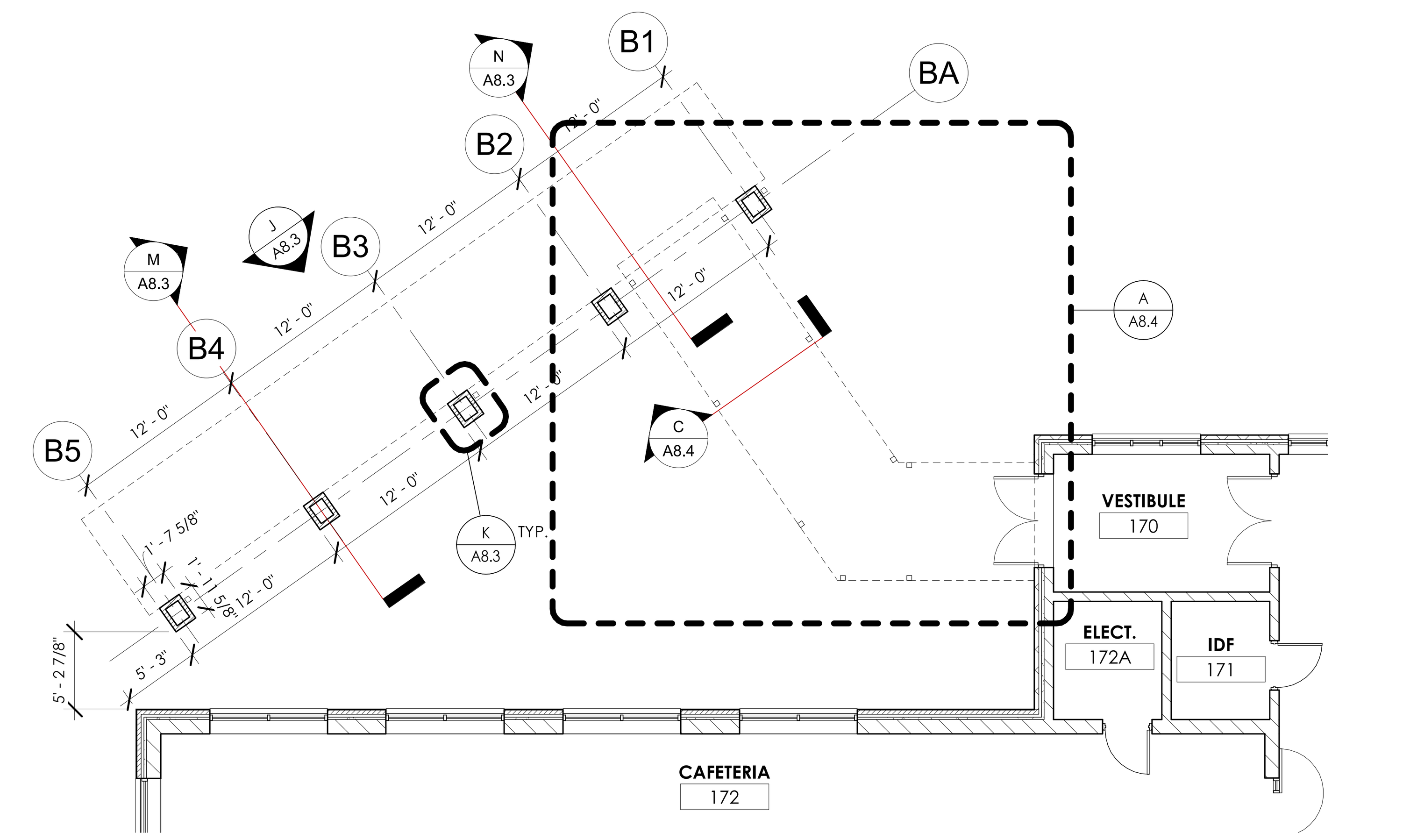
ALTERNATE #5 - ROOF PLAN
1/8" = 1'-0"
H A8.3



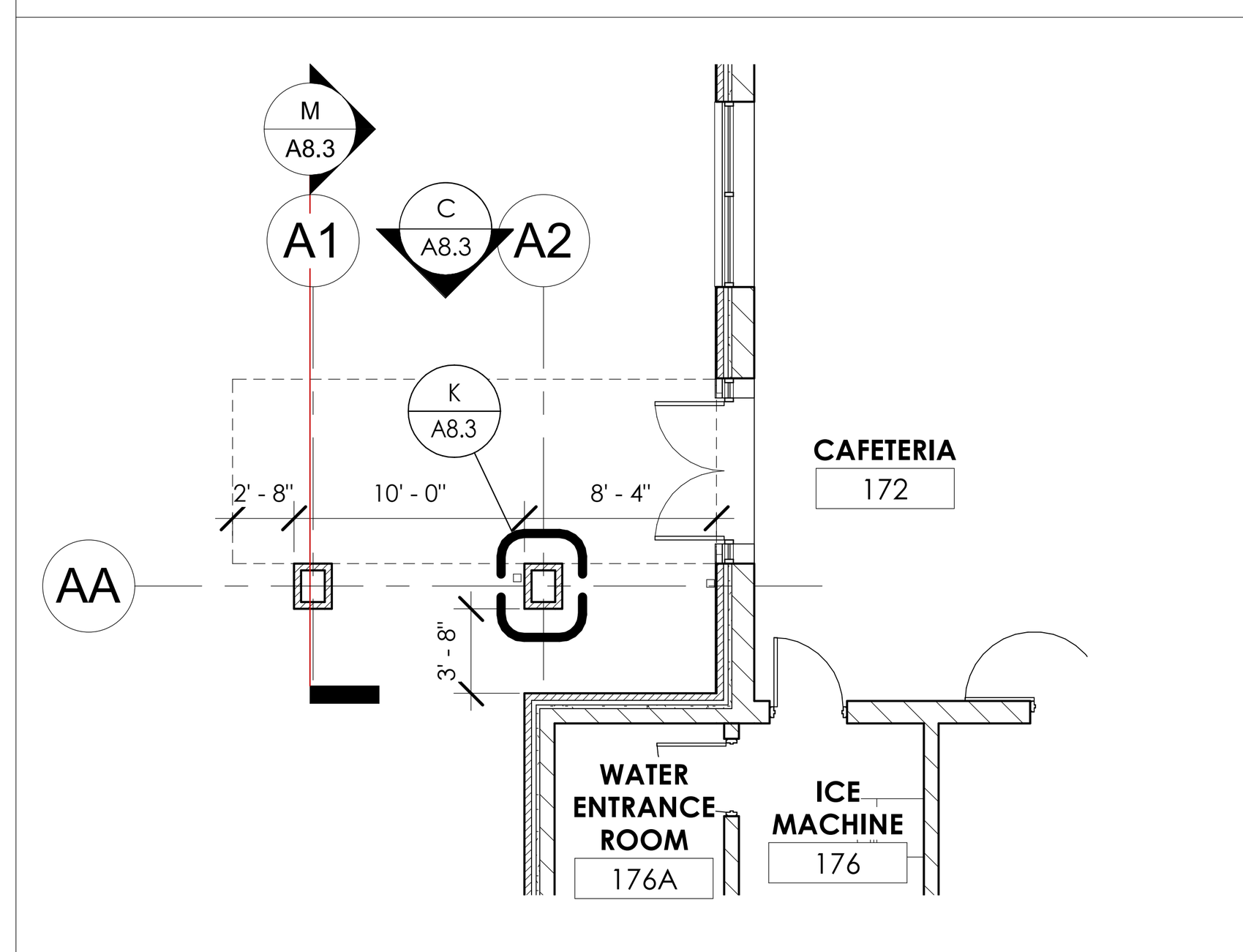
ALTERNATE #4 - ROOF PLAN
1/8" = 1'-0"
B A8.3



CANOPY SECTION
1/2" = 1'-0"
M A8.3



ALTERNATE #5 - PLAN
1/8" = 1'-0"
G A8.3

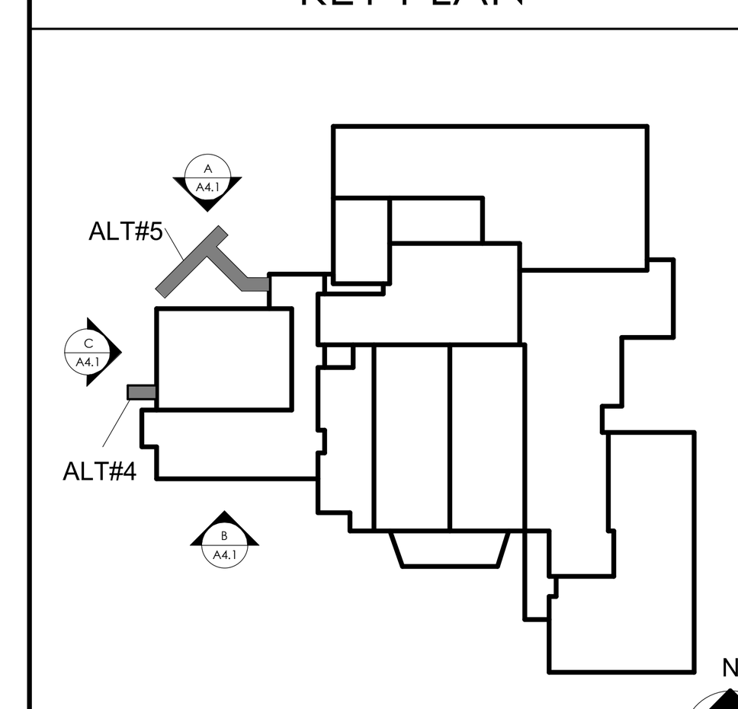


ALTERNATE #4 - FIRST FLOOR PLAN
1/8" = 1'-0"
A A8.3

MATERIAL REFERENCE	
042000.B	Face Brick
042000.C	Split Face CMU
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
042000.K	Grout
044200.A	Stone Cladding
079005.A	Joint Sealant
099000.A	Paint
107300.A	Column Supported Metal Canopy
107300.D	Canopy Deck

ALTERNATES:
ALT. #1: BASEMENT RENOVATION
ALT. #2: FMD CLASSROOM AND FIRST AID OFFICE
ALT. #3: MEDIA CENTER CIRCULATION DESK
ALT. #4: CANOPY AT CAFETERIA
ALT. #5: CANOPY AT VESTIBULE
ALT. #6: OWNER PREFERRED HARDWARE
ALT. #7: ENTRANCE ROAD

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

RONALD E. MURRELL JR. REGISTERED No. 4367 COMMONWEALTH OF KENTUCKY ARCHITECT

ALTERNATES #4 AND #5
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: BB
Rev'd By: RM

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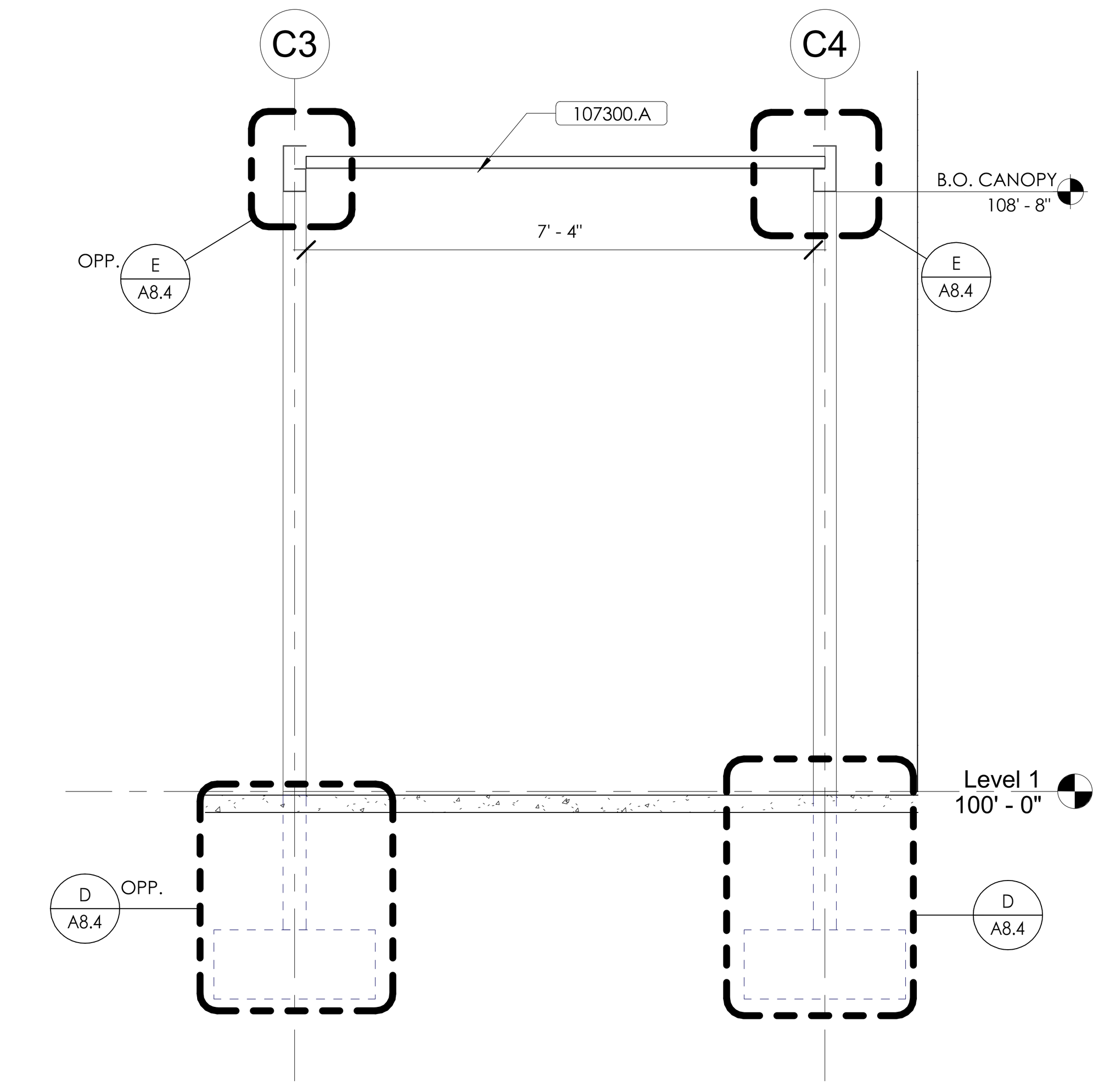
ALTERNATES #4 AND #5

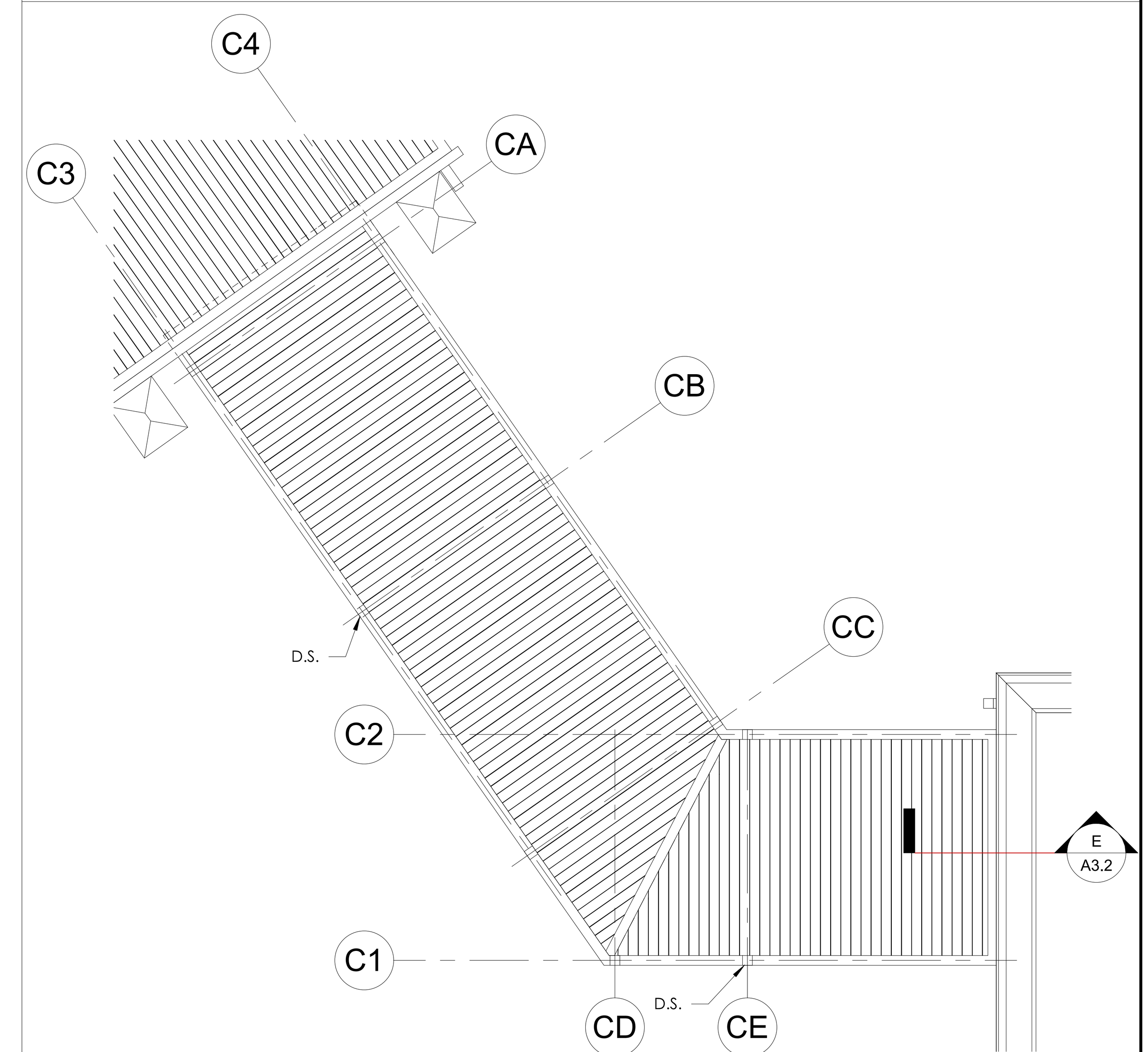
DATE ISSUED:
9/13/19

REVISIONS

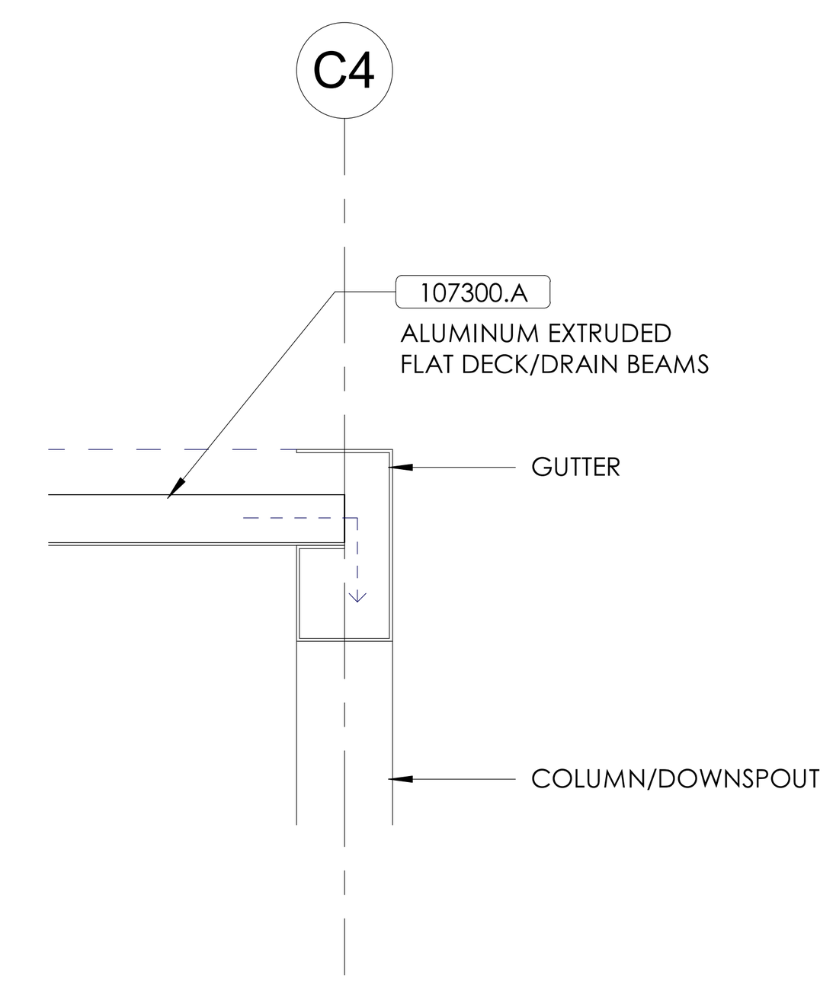
#	DATE	DESCRIPTION



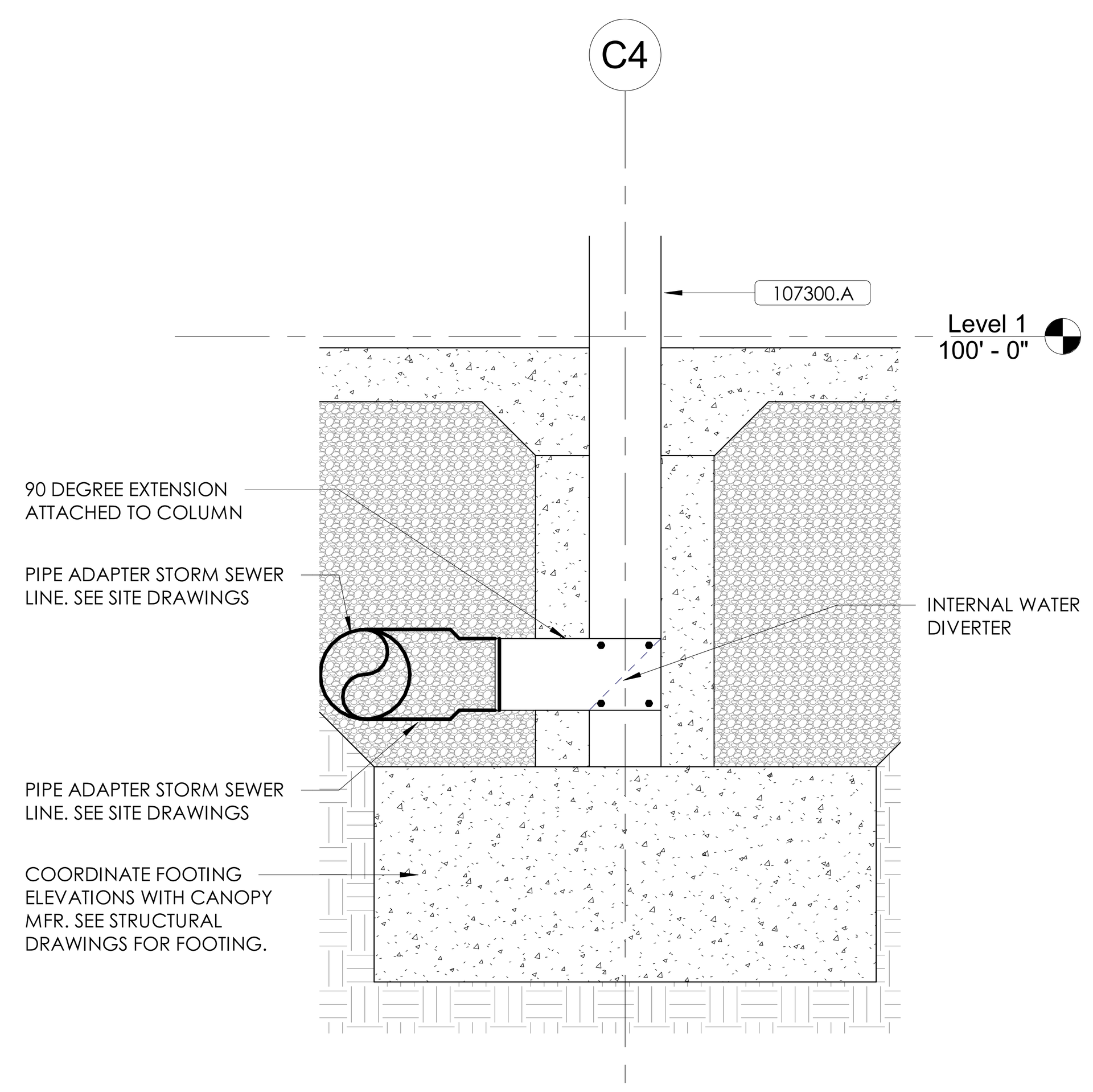
ALTERNATE #5 - SECTION OF CANOPY
1/2" = 1'-0"
C
A8.4



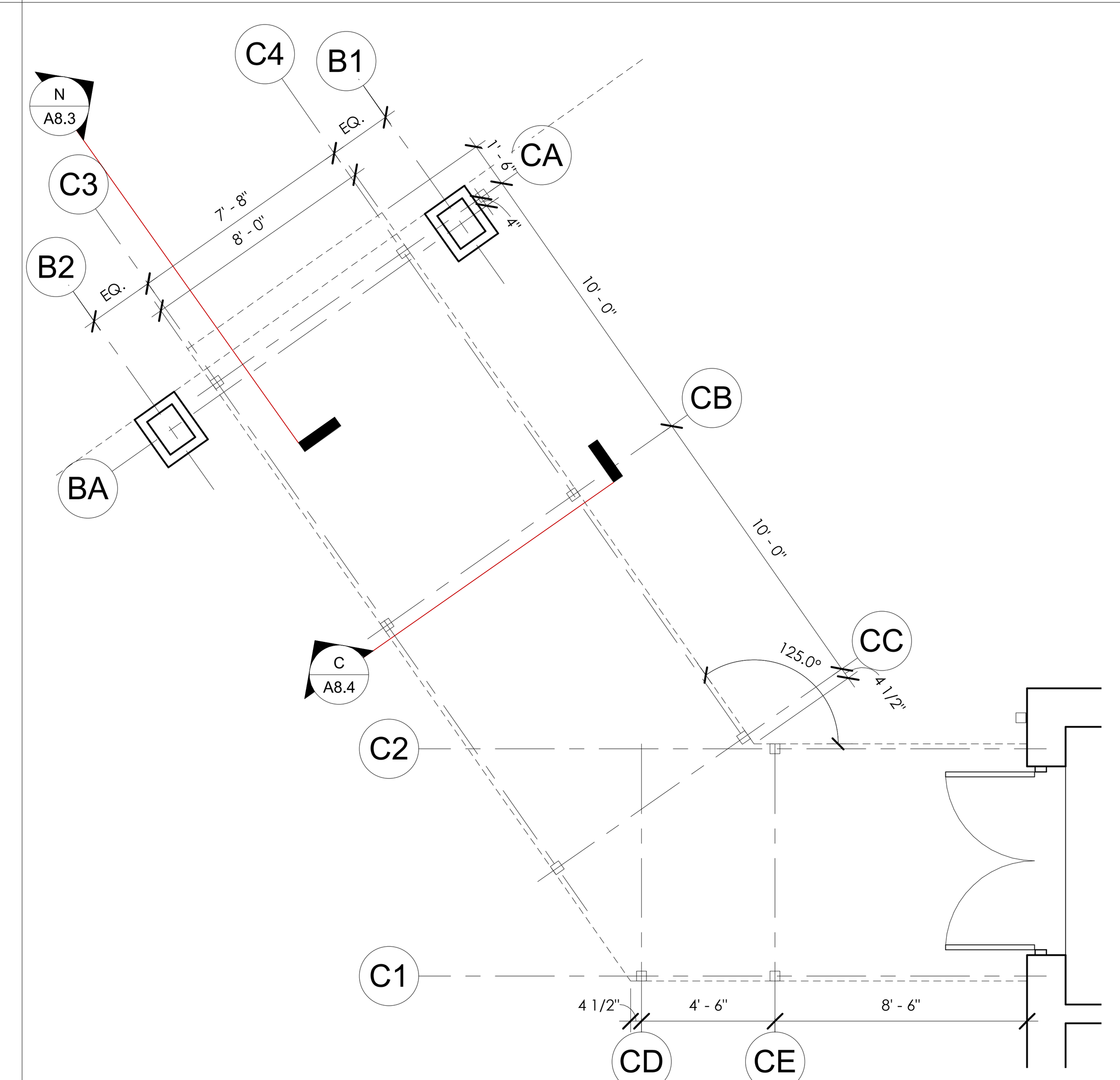
ALTERNATE #5 - ENLARGED ROOF PLAN
1/4" = 1'-0"
B
A8.4



CANOPY GUTTER POST DETAIL
1 1/2" = 1'-0"
E
A8.4



CANOPY POST/DOWNSPOUT
1 1/2" = 1'-0"
D
A8.4

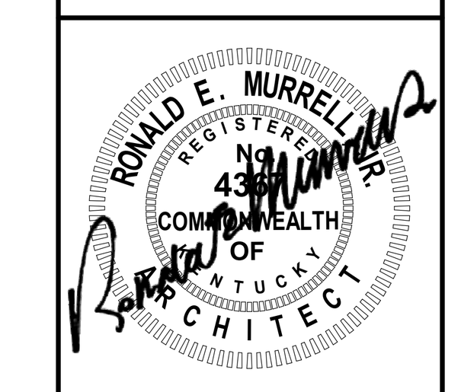


ALTERNATE #5 - ENLARGED FIRST FLOOR PLAN
1/4" = 1'-0"
A
A8.4

MATERIAL REFERENCE

107300.A	Column Supported Metal Canopy

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018



ALTERNATE DETAILS
BURGIN INDEPENDENT SCHOOL ADDITION & RENOVATION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

A8.4

ALTERNATE DETAILS

DATE ISSUED:
9/13/19

GENERAL NOTES

ALL RECEPTACLES & J-BOX'S ARE TO BE INSTALLED SO TOP OF BOXES ARE AT ABOVE FINISHED FLOOR HEIGHTS SHOWN ON DRAWINGS.

FLOOR MOUNTED ELECTRICAL OUTLETS AND "J" BOXES SHALL HAVE TOP OF BOX NO MORE THAN 5"AFF.

K.E.C. TO SHOW ON ROUGH-IN DRAWINGS; EXACT LOCATION OF CONVENIENCE OUTLETS, MECHANICAL AND ELECTRICAL SERVICES FOR EACH PIECE OF EQUIPMENT PROVIDED BY K.E.C., OWNER, AND VENDORS. INCLUDE ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON BID DOCUMENT DRAWING SHEETS.

K.E.C. TO FURNISH COATED QUICK DISCONNECT KITS WITH HOSE KITS SIZED PER MANUFACTURERS RECOMMENDATION FOR EACH PIECE OF GAS COOKING EQUIPMENT.

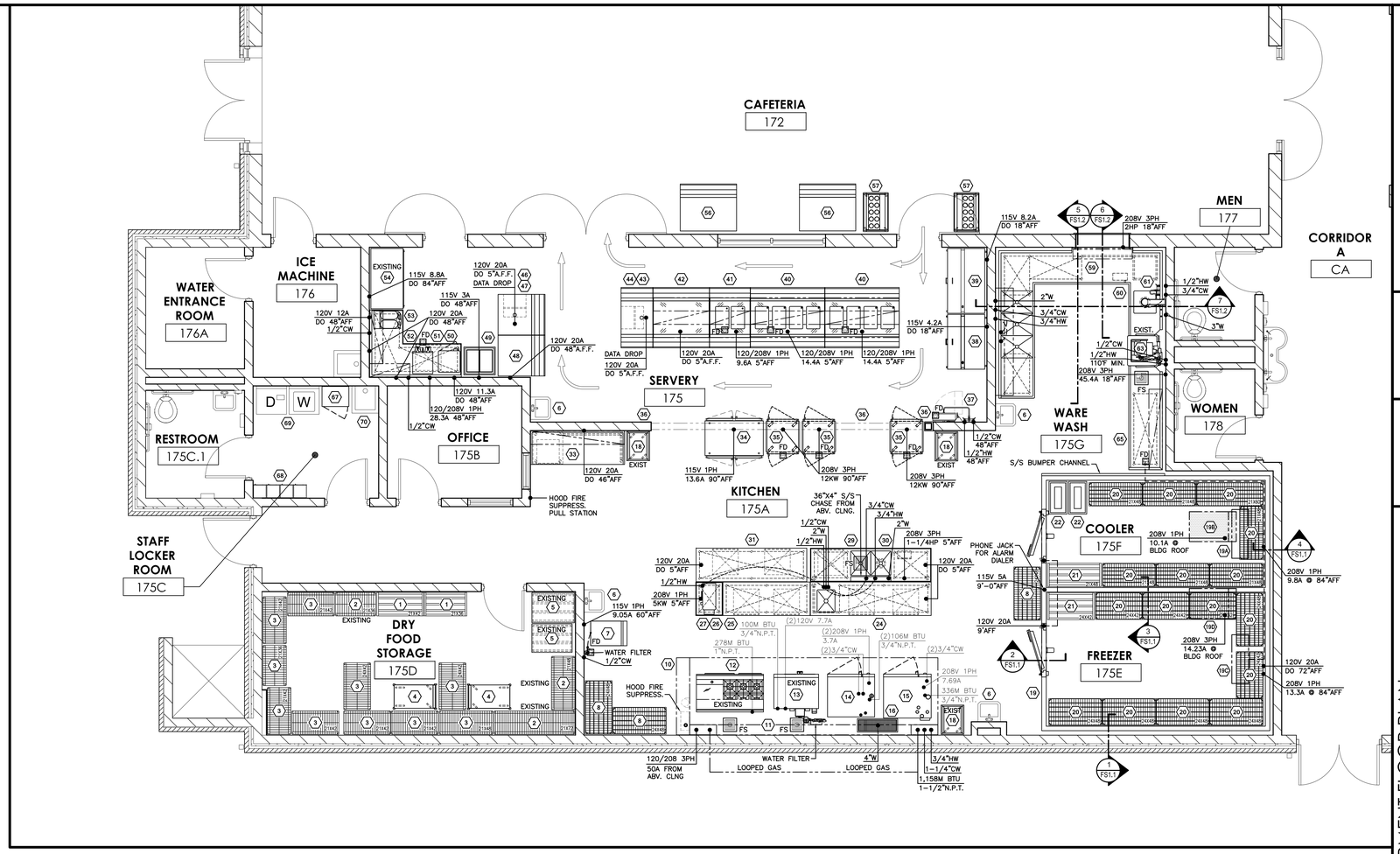
ELECTRICAL AND PLUMBING INFORMATION SHOWN IN LIGHTER PRINT IS FOR REFERENCE ONLY.

ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
B.O.	BY OTHERS
B.V.	BY VENDOR
CLNG	CEILING
CW	COLD WATER
DFA	DOWN FROM ABOVE
DIR	DIRECT CONNECTION
DO	DUPLEX OUTLET
E.C.	ELECTRICAL CONTRACTOR
E.D.S.	ENERGY DISTRIBUTION SYSTEM
FD	FLOOR DRAIN
FS	FLOOR SINK
FT	FLOOR TROUGH
FNLD	FUNNEL DRAIN
G	GAS
G.C.	GENERAL CONTRACTOR
HP	HORSEPOWER
HW	HOT WATER
J	JUNCTION BOX
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
N.I.C.	NOT IN CONTRACT
O.S.	OWNER SUPPLIED
PC	PLUMBING CONTRACTOR
PH	PHASE
SO	SINGLE PURPOSE OUTLET
V	VOLTS
W	WASTE

⊗ NOTES

1. EXISTING EQUIPMENT – K.E.C. TO RELOCATE AS SHOWN ON KITCHEN EQUIPMENT FLOOR PLAN.
2. EXISTING EQUIPMENT – K.E.C., E.C., AND P.C. TO VERIFY CONNECTION REQUIREMENTS BEFORE BIDDING.
3. E.C. TO PROVIDE CORD & PLUG.
4. SEE WRITTEN SPECIFICATIONS AND HOOD PLANS FOR SERVICE REQUIREMENTS AND WORK TO BE PROVIDED BY GENERAL, STRUCTURAL, ROOFING, ELECTRICAL, PLUMBING, AND MECHANICAL CONTRACTORS.
5. 120V 1PH 2.6 AMP ELECTRICAL REQUIREMENTS FOR HOOD LIGHTS SUPPLIED THROUGH CIRCUIT CALLED FOR IN E.D.S.
6. ELECTRICAL REQUIREMENTS FOR FIRE SUPPRESSION SYSTEM SUPPLIED THROUGH 120V 10A CIRCUIT CALLED FOR IN E.D.S.
7. EXHAUST AND MAKE-UP AIR FANS POWER SUPPLY SHALL BE COMBINED TO A 208V 3PH SINGLE POINT CONNECTION LOCATED ON THE SIDE OF THE MAKE-UP AIR UNIT. SEE HOOD PLANS FOR EXACT LOCATION AND DETAILS.
8. P.C. TO PROVIDE GAS CONNECTION TO MAKE-UP AIR FURNACE. SEE HOOD PLAN FOR EXACT LOCATION AND DETAILS.
9. E.C. TO INTERWIRE CONTROL SWITCHES LOCATED ON E.D.S. COLUMN TO HOOD LIGHTS AND HOOD SYSTEM FANS (SEE HOOD DRAWINGS AND SPECIFICATIONS) AS WELL AS INTER-WIRING FIRE SUPPRESSION SYSTEM TO CONNECTION POINTS IN E.D.S.
10. K.E.C. TO MAKE ALL FINAL CONNECTIONS BETWEEN E.D.S. AND COOKING EQUIPMENT.
11. E.C. AND P.C. ARE RESPONSIBLE FOR RESPECTIVE TRADE CONNECTIONS BETWEEN BUILDING SUPPLY AND E.D.S. PRIMARY CONNECTION POINTS.
12. P.C. TO PROVIDE & INSTALL REQUIRED LOOPED GAS SERVICE TO E.D.S.
13. EACH COMPARTMENT REQUIRES (1) FILTERED CW CONNECTION AND (1) NON-FILTERED CW CONNECTION.
14. K.E.C. RESPONSIBLE FOR INSTALLING DRAIN LINE & DRAIN WATER TEMPERING KIT. E.C. RESPONSIBLE FOR COMPLETE WIRING OF DRAIN WATER TEMPERING KIT TO DISHMACHINE. P.C. RESPONSIBLE FOR CONNECTING COLD WATER TO DRAIN WATER TEMPERING KIT.
15. K.E.C. RESPONSIBLE FOR INSTALLING DRAIN LINE & DRAIN WATER TEMPERING KIT. K.E.C. TO HAVE MANUFACTURER INTER-WIRE DRAIN WATER TEMPERING KIT TO DISHMACHINE. P.C. RESPONSIBLE FOR CONNECTING COLD WATER TO DRAIN WATER TEMPERING KIT.
16. E.C. TO PROVIDE CIRCUIT TO "J" BOX WHERE SHOWN. K.E.C. TO BRANCH TO LIGHTS, DIGITAL ALARM AND HEATED VAPOR RELIEF VENT WHERE REQUIRED.
17. E.C. TO PROVIDE AND INSTALL (1) 115V 1PH 5 MCA RECEPTACLE AND (1) PHONE JACK AT ROOF OF WALK-IN BOX (AS SHOWN ON DRAWINGS) FOR ALARM PHONE DIALER. K.E.C. TO PROVIDE AND INSTALL ALARM PHONE DIALER BOX TO EXTERIOR FACE OF WALK-IN COOLER/FREEZER AND MAKE FINAL CONNECTIONS.
18. E.C. TO INSTALL 120V 20A RECEPTACLE 72"AFF ON INTERIOR BACK WALL OF WALK-IN FREEZER COMPARTMENT AS SHOWN ON FLOOR PLAN. K.E.C. TO PLUG CONDENSATE DRAIN LINE HEAT TAPE INTO THIS RECEPTACLE.
19. PROVIDE ELECTRIC SUPPLY DOWN INTO WALK-IN BOX TO DISCONNECT AND UNIT COOLER.
20. PROVIDE DISCONNECT AND CIRCUIT TO COOLER CONDENSING UNIT LOCATED AS SHOWN ON DRAWINGS. K.E.C. TO PROVIDE CONDUIT FROM CONDENSING UNIT TO UNIT COOLER AND INTER-WIRING OF CONTROL WIRING BETWEEN COMPONENTS NECESSARY FOR PROPER OPERATION OF THIS SYSTEM.
21. PROVIDE DISCONNECT AND CIRCUIT TO FREEZER CONDENSING UNIT LOCATED AS SHOWN ON DRAWINGS. K.E.C. TO PROVIDE CONDUIT FROM CONDENSING UNIT TO UNIT COOLER AND INTER-WIRING OF CONTROL WIRING BETWEEN COMPONENTS NECESSARY FOR PROPER OPERATION OF THIS SYSTEM.
22. ROOF MOUNTED WALK-IN COMPRESSORS ARE TO BE PLACED AT A MINIMUM OF 10'-0" AWAY FROM THE OUTER EDGES OF THE BUILDING ROOF.
23. P.C. TO BRANCH WATER SUPPLY FROM CHASE ON PREP SINK FOR THIS ITEM.
24. P.O.S. TO PLUG INTO OUTLET INCLUDED IN CASHIER STATION.
25. DEDICATED CIRCUIT REQUIRED AT ELECTRICAL PANEL FOR P.O.S. SYSTEM.
26. P.C. TO BRANCH WATER SUPPLY FOR THIS ITEM FROM WATER SUPPLY FOR PRE-RINSE ON SOILED DISHTABLE.



EQUIPMENT SCHEDULE

ITEM NO.	NO. REQ'D	DESCRIPTION	WATER HOT	WATER COLD	WASTE	ELECTRICAL KW.	HP	V/PH	AMPS	CONN.	MTG. HT.	3 PH KW LOAD'G	GAS SIZE	GAS BTU'S	RESPONSIBILITY FURN. BY	INSTALL BY	CONN. MC	CONN. PC	CONN. EC	MANUFACTURER
1	2	DUNNAGE RACK – DRY STORAGE													K.E.C.	K.E.C.				
2	1 LOT	SHELVING – DRY STORAGE EXISTING													O.S.	K.E.C.				(1)
3	1 LOT	SHELVING – DRY STORAGE													K.E.C.	K.E.C.				
4	2	UTILITY CART													K.E.C.	K.E.C.				
5	2	CAN RACK EXISTING													O.S.	K.E.C.				(1)
6	4	HAND SINK													P.C.	P.C.				
7	1	ICE MACHINE W/STORAGE BIN		1/2"	FD			115/1	9.05	PLUG	60"AFF				K.E.C.	K.E.C.		*	*	(3)
8	3	SHELVING – POT & PAN													K.E.C.	K.E.C.				
9		OPEN NUMBER																		
10	1	HOOD – CANOPY						120/1	2.6	DIR	ABV CLNG				K.E.C.	K.E.C.			*	(4)(5)(6)
	1	HOOD –. EXHAUST AIR FAN					2	208/3		DIR	❶ BLDG ROOF				K.E.C.	K.E.C.			*	(4)(7)(9)
	1	HOOD – SUPPLY AIR & FURNACE					2	208/3	13.95	DIR	❶ BLDG ROOF		1"	264.25M	K.E.C.	K.E.C.		*	*	(4)(7)(8)(9)
11	1	ENERGY DISTRIBUTION SYSTEM	3/4"	1-1/4"				120/208/3	50	DIR	FROM ABV CEILING		1-1/2"	1,158M	K.E.C.	K.E.C.				(9)(10)(11)(12)
12	1	6-BURNER RANGE W/GRIDDLE & OVENS EXISTING											1"	278M	O.S.	K.E.C.				(1)(2)(10)
13	1	CONVECTION OVEN – DBL. STACK EXISTING						(2)120/1	7.7 EA.	PLUG			3/4"	100M	O.S.	K.E.C.				(1)(2)(10)
14	1	COMBI OVEN – DBL. STACK		(4)3/4"	FS			(2)208/1	3.7 EA.	PLUG			(2)3/4"	106M EA.	K.E.C.	K.E.C.				(10)(13)(14)
15	1	COMBI OVEN – ROLL-IN		(2)3/4"	FS			208/1	7.69	PLUG			3/4"	336M	K.E.C.	K.E.C.				(10)(13)(14)
16	1	FLOOR TROUGH			4"										K.E.C.	K.E.C.				
17		OPEN NUMBER																		
18	3	BUN PAN RACKS EXISTING													O.S.	K.E.C.				(1)
19	1	WALK-IN COOLER/FREEZER						(2)120/1 115/1	(2)20 5	(1)DIR (2)PLUG	SEE FLOOR PLAN				K.E.C.	K.E.C.			*	(16)(17)(18)
19A	1	UNIT COOLER – COOLER			FD			208/1	9.8	DIR	84"AFF				K.E.C.	K.E.C.				(19)
19B	1	CONDENSING UNIT – COOLER						208/1	10.1	DIR	❶ BLDG ROOF				K.E.C.	K.E.C.			*	(20)(22) COMPRESSOR WGT: 170 LBS
19C	1	UNIT COOLER – FREEZER			FD			208/1	13.3	DIR	84"AFF				K.E.C.	K.E.C.				(19)
19D	1	CONDENSING UNIT – FREEZER						208/3	14.23	DIR	❶ BLDG ROOF				K.E.C.	K.E.C.			*	(21)(22) COMPRESSOR WGT: 192 LBS
20	1 LOT	SHELVING – COOLER/FREEZER													K.E.C.	K.E.C.				
21	2	DUNNAGE RACKS – COOLER/FREEZER													K.E.C.	K.E.C.				
22	2	MILK CRATE DOLLY													K.E.C.	K.E.C.				
23		OPEN NUMBER																		
24	1	WORK TABLE W/SINK	1/2"	1/2"	2"										K.E.C.	K.E.C.			*	(23)
25	1	WORK TABLE													K.E.C.	K.E.C.				
26	1	HOT WATER DISPENSER	1/2"			5		208/1	24	PLUG	5"AFF				K.E.C.	K.E.C.			*	(23)
27	1	WORK TABLE													K.E.C.	K.E.C.				
28		OPEN NUMBER																		
29	1	PREP SINK W/CHASE	1/2"	1/2"	FS										K.E.C.	K.E.C.			*	
30	1	DISPOSER		1/2"	2"		1-1/4	208/3	3.7	DIR	5"AFF				K.E.C.	K.E.C.			*	(23)
31	1	WORK TABLE													K.E.C.	K.E.C.				
32		OPEN NUMBER																		

ITEM NO.	NO. REQ'D	DESCRIPTION	WATER HOT	WATER COLD	WASTE	ELECTRICAL KW.	HP	V/PH	AMPS	CONN.	MTG. HT.	3 PH KW LOAD'G	GAS SIZE	GAS BTU'S	RESPONSIBILITY FURN. BY	INSTALL BY	CONN. MC	CONN. PC	CONN. EC	MANUFACTURER
33	1	BAKER'S TABLE W/CANTILEVER OVERSHELF													K.E.C.	K.E.C.				
34	1	PASS-THRU REFRIGERATOR					1/3	115/1	13.6	PLUG	90"AFF				K.E.C.	K.E.C.				
35	3	PASS-THRU HEAT & HOLD				12		208/3		PLUG	90"AFF				K.E.C.	K.E.C.			*	
36	1 LOT	S/S TRIM													K.E.C.	K.E.C.				
37	1	HOSE REEL – 30 FT.	1/2"	1/2"											K.E.C.	K.E.C.		*		
38	1	MILK COOLER					1/5	115/1	4.2	PLUG	18"AFF				K.E.C.	K.E.C.				
39	1	MILK COOLER					1/2	115/1	8.2	PLUG	18"AFF				K.E.C.	K.E.C.				
40	2	HOT/COLD/FROZEN FOOD TABLE			FD			120/208/1	14.4	PLUG	5"AFF				K.E.C.	K.E.C.			*	
41	1	HOT/COLD/FROZEN FOOD TABLE			FD			120/208/1	9.6	PLUG	5"AFF				K.E.C.	K.E.C.			*	
42	1	SOLID TOP TABLE													K.E.C.	K.E.C.				
43	1	CASHIER STATION						120/1	12	PLUG	5"AFF				K.E.C.	K.E.C.				(25)
44	1	P.O.S. SYSTEM						120/1	10	PLUG					B.O.	B.O.				(24)
45		OPEN NUMBER																		
46	1	CASHIER STATION						120/1	12	PLUG	5"AFF				K.E.C.	K.E.C.				(25)
47	1	P.O.S. SYSTEM						120/1	10	PLUG					B.O.	B.O.				(24)
48	1	SOLID TOP TABLE													K.E.C.	K.E.C.				
49	1	ICE CREAM DISPLAY FREEZER						115/1	3	PLUG	48"AFF				K.E.C.	K.E.C.				
50	1	HEATED DISPLAY MERCHANDISER				1.36		120/1	11.3	PLUG	48"AFF				K.E.C.	K.E.C.				
51	1	TWIN COFFEE BREWER		1/2"				120/208/1	28.3	PLUG	48"AFF				K.E.C.	K.E.C.		*	*	
52	1	WORK TABLE W/OVERSHELVES													K.E.C.	K.E.C.				
53	1	DUAL SLUSHIE MACHINE		1/2"		1.44		120/1	12	PLUG	48"AFF				K.E.C.	K.E.C.		*		
54	1	GLASS DOOR MERCHANDISER EXISTING						115/1	8.8	PLUG	84"AFF				O.S.	K.E.C.				(1)(2)
55		OPEN NUMBER																		
56	2	SOLID TOP TABLE													K.E.C.	K.E.C.				
57	2	TRAY & FLATWARE CART													K.E.C.	K.E.C.				
58		OPEN NUMBER																		
59	1	SOILED DISH TABLE W/SCRAP & POT SINKS	(2)1/2"	(2)1/2"	2"										K.E.C.	K.E.C.		*		
60	1	DISPOSER		1/2"	3"		2	208/3	6	DIR	18"AFF				K.E.C.	K.E.C.		*	*	(26)
61	1	HOSE REEL – 30 FT.	1/2"	1/2"											K.E.C.	K.E.C.		*		
62		OPEN NUMBER																		
63	1	DISHWASHER EXISTING	1/2"	1/2"	FS			208/3	45.4	DIR	18"AFF				O.S.	K.E.C.		*	*	(1)(2)(15)
64		OPEN NUMBER																		
65	1	CLEAN DISH TABLE W/OVERSHELF													K.E.C.	K.E.C.				
66		OPEN NUMBER																		
67	1	STORAGE CABINET – CHEMICAL													K.E.C.	K.E.C.				
68	1 LOT	EMPLOYEE LOCKERS													B.O.	B.O.				
69	1 SET	CLOTHES WASHER & DRYER													B.O.	B.O.		*	*	
70	1	MOP SINK													P.C.	P.C.		*		

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

KITCHEN EQUIPMENT FLOOR PLAN
BURGIN INDEPENDENT SCHOOL RENOVATION & ADDITION
FOR:
BURGIN BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer
CMTA, Inc.
2429 Members Way
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.225.8837

Food Service Consultant
Joby Smith & Associates, Inc.
7 East Ave.
Monroe, OH 45050
p 513.360.7264

BG# 19-262

Project No: 1904
Drawn By: JSA
Rev'd By: JSA

SHEET RELEASE

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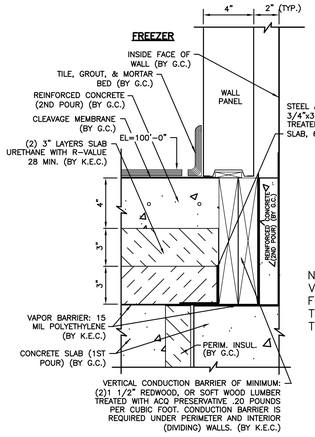
CONSTRUCTION DOCUMENTS

FS1.0

FOOD SERVICE EQUIPMENT FLOOR PLAN

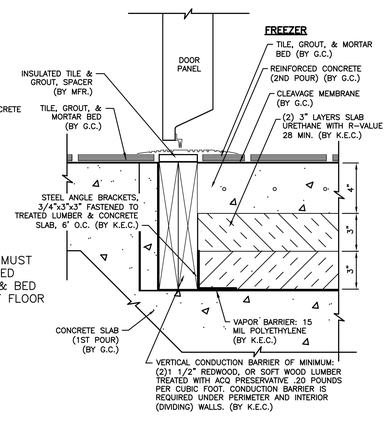
DATE ISSUED: 9/13/19



DETAIL @ FLOOR 1 FS1.0

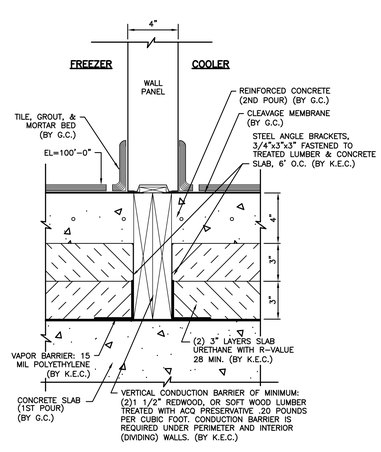
NO SCALE

NOTE: K.E.C. MUST VERIFY FINISHED FLOOR TYPE & BED THICKNESS, IF FLOOR TYPE IS TILE.



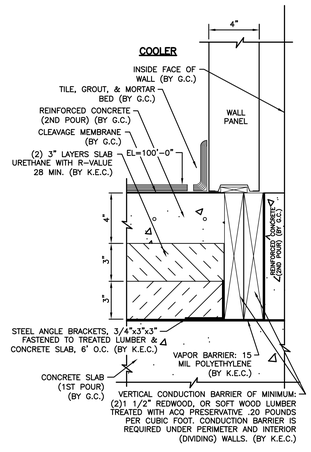
DETAIL @ FLOOR 2 FS1.0

NO SCALE



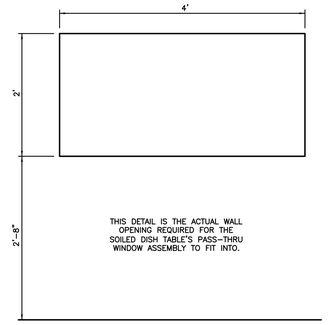
DETAIL @ FLOOR 3 FS1.0

NO SCALE



DETAIL @ FLOOR 4 FS1.0

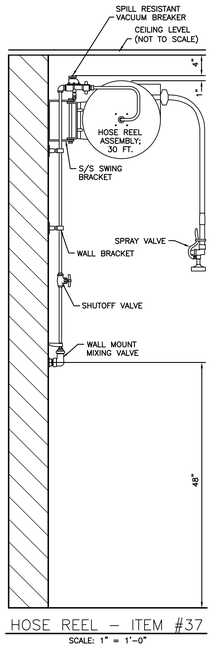
NO SCALE



ELEVATION

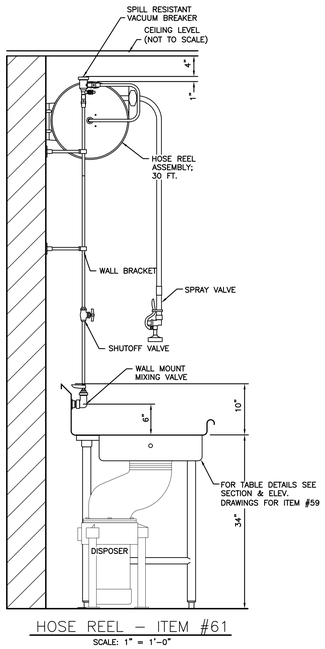
SCALE: 1" = 1'-0"

WAREWASH PASS-THRU WINDOW WALL OPENING



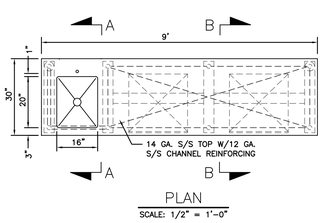
HOSE REEL - ITEM #37

SCALE: 1" = 1'-0"



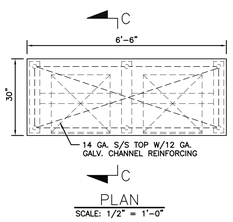
HOSE REEL - ITEM #61

SCALE: 1" = 1'-0"



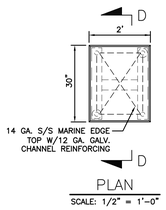
PLAN

SCALE: 1/2" = 1'-0"



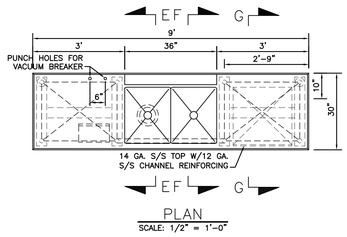
PLAN

SCALE: 1/2" = 1'-0"



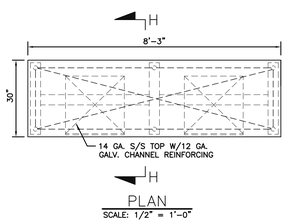
PLAN

SCALE: 1/2" = 1'-0"



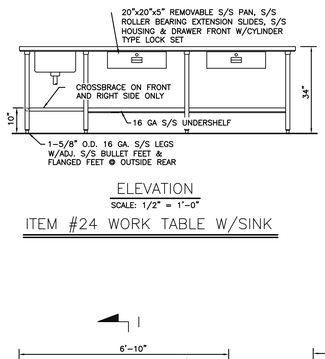
PLAN

SCALE: 1/2" = 1'-0"



PLAN

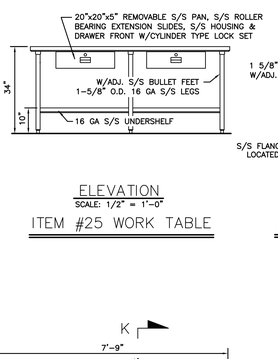
SCALE: 1/2" = 1'-0"



ELEVATION

SCALE: 1/2" = 1'-0"

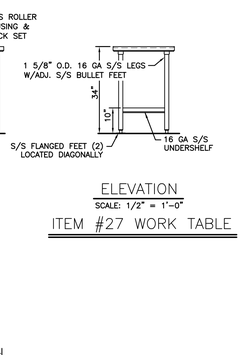
ITEM #24 WORK TABLE W/SINK



ELEVATION

SCALE: 1/2" = 1'-0"

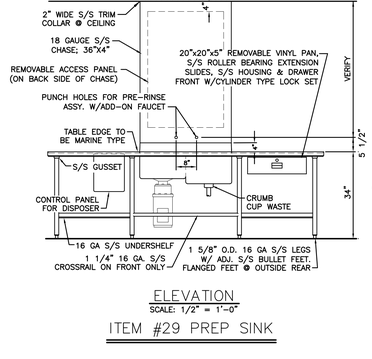
ITEM #25 WORK TABLE



ELEVATION

SCALE: 1/2" = 1'-0"

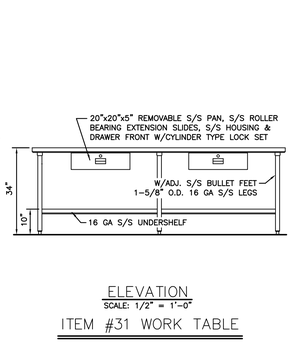
ITEM #27 WORK TABLE



ELEVATION

SCALE: 1/2" = 1'-0"

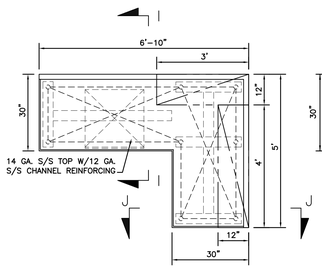
ITEM #29 PREP SINK

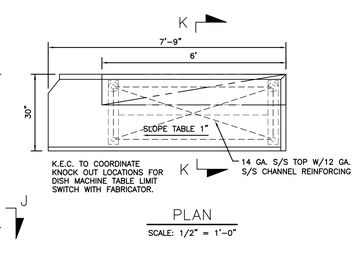


ELEVATION

SCALE: 1/2" = 1'-0"

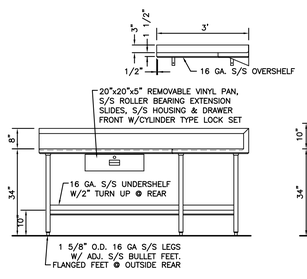
ITEM #31 WORK TABLE





PLAN

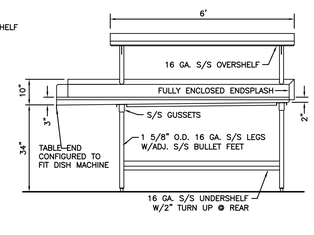
SCALE: 1/2" = 1'-0"



ELEVATION

SCALE: 1/2" = 1'-0"

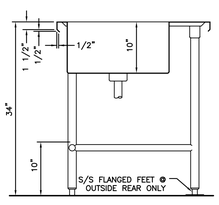
ITEM #52 WORK TABLE W/OVERSHELVES



ELEVATION

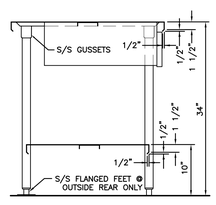
SCALE: 1/2" = 1'-0"

ITEM #65 CLEAN DISH TABLE



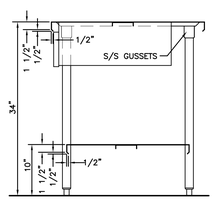
SECTION A-A

SCALE: 1" = 1'-0"



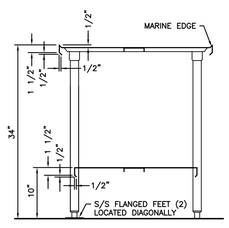
SECTION B-B

SCALE: 1" = 1'-0"



SECTION C-C

SCALE: 1" = 1'-0"



SECTION D-D

SCALE: 1" = 1'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

KITCHEN EQUIPMENT FLOOR PLAN

BURGIN INDEPENDENT SCHOOL RENOVATION & ADDITION

FOR:

BURGIN BOARD OF EDUCATION

BURGIN, KENTUCKY

M.E.&P Engineer
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 89.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
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Food Service Consultant
Joby Smith & Associates, Inc.
7 East Ave.
Monroe, OH 45050
p 513.360.7264

BG# 19-262

Project No: 1904
Drawn By: JSA
Rev'd By: JSA

SHEET RELEASE

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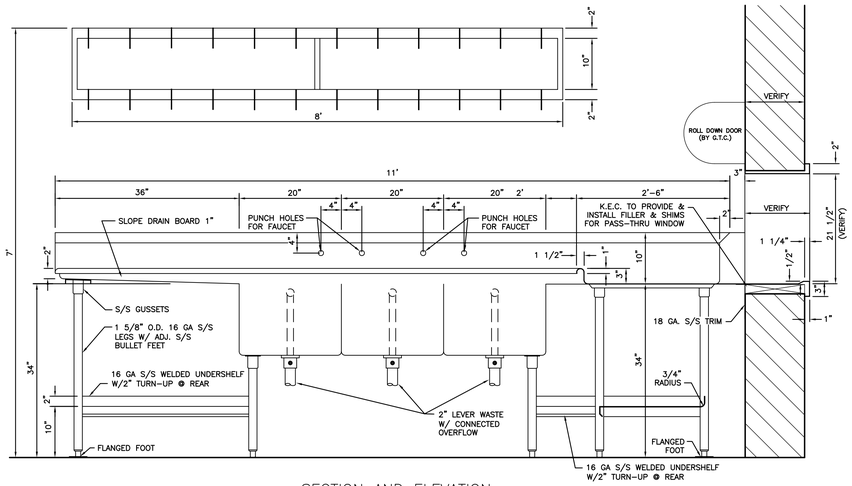
CONSTRUCTION DOCUMENTS

FS1.1

FOOD SERVICE EQUIPMENT ELEVATION/SECTIONS

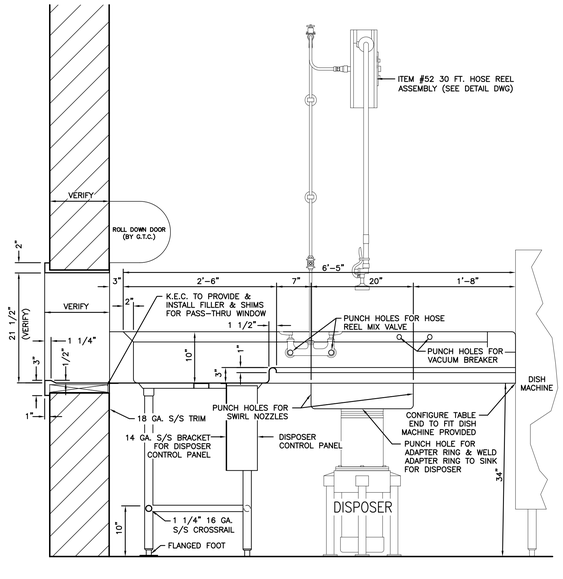
DATE ISSUED: 9/13/19



SECTION AND ELEVATION

SCALE: 1" = 1'-0"

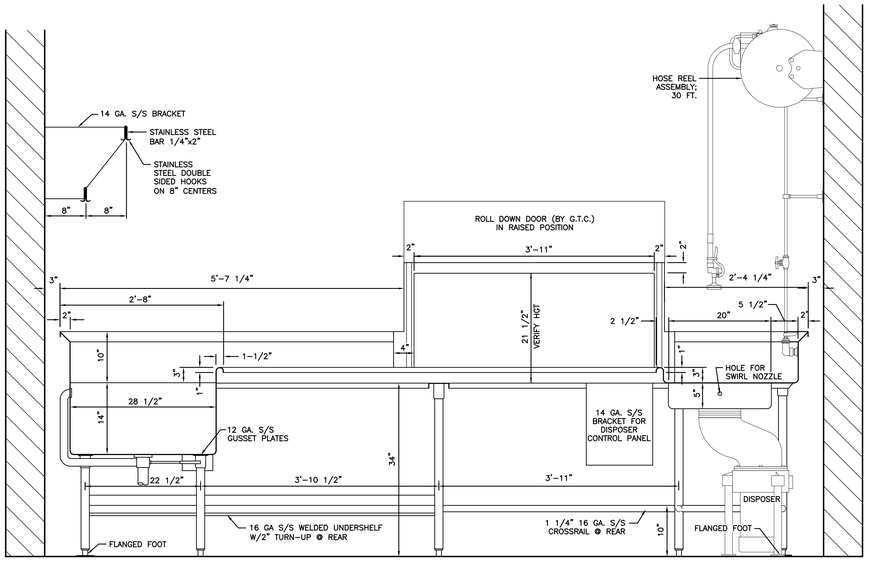
5 FS1.00 SOILED DISH TABLE - POT AND PAN SINK AREA



SECTION AND ELEVATION

SCALE: 1" = 1'-0"

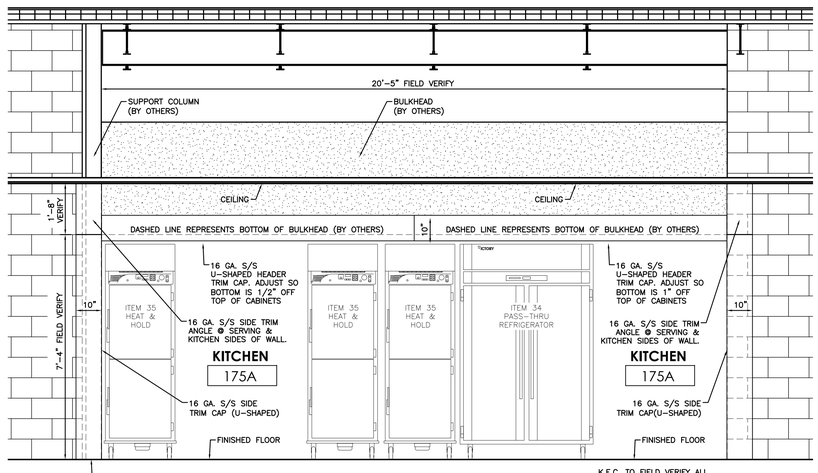
6 FS1.00 SOILED DISHTABLE - RINSE AREA



SECTION AND ELEVATION

SCALE: 1" = 1'-0"

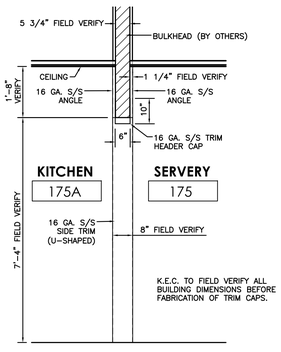
7 FS1.00 SOILED DISHTABLE - PASS-THRU WINDOW AREA



FRONT ELEVATION

SCALE: 1/2" = 1'-0"

ITEM# 36 S/S TRIM CAPS



SIDE ELEVATION

SCALE: 1/2" = 1'-0"

ITEM# 36 S/S TRIM CAPS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

KITCHEN EQUIPMENT FLOOR PLAN

BURGIN INDEPENDENT SCHOOL RENOVATION & ADDITION

FOR:

BURGIN BOARD OF EDUCATION

BURGIN, KENTUCKY

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Monroe, OH 45050
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BG# 19-262

Project No: 1904
Drawn By: JSA
Rev'd By: JSA

SHEET RELEASE

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CONSTRUCTION DOCUMENTS

FS1.2

FOOD SERVICE EQUIPMENT ELEVATION/SECTIONS

DATE ISSUED: 9/13/19

SPECIFICATIONS – ITEM 10

HOOD: (1) Type I canopy exhaust hood, sized as shown on the drawings. Factory to pre-assemble hood sections and furnish fasteners for field assembly. Hood to be constructed of 18 gauge type 304 stainless steel #4 finish, where exposed. Double thickness outside end panels solid welded and polished to face with no exposed joints. Filter rack mullion to be tack welded to inside end panel. UL. 710 Listed Construction.

LIGHTS: (4) Recessed LED light fixtures UL. Listed for use in Type I canopy hoods, factory wired to junction box.

FILTERS: (10) 25"x20"x2" UL Classified, stainless steel baffle type grease filters.

BULKHEAD: 18 gauge stainless steel bulkhead between top of hood and ceiling on all exposed sides. Verify ceiling height before construction.

FAN PACKAGE: Exhaust fan (1) upblast centrifugal, spun aluminum, belt driven, UL 762 Listed for use in grease laden environments, with prewired disconnect switch, tilting base, and grease catch trough. Wheel size to be 22" minimum and rated at 15.5 sones maximum. Supply air fan (1) centrifugal belt driven, side inlet type in square housing. Provide disconnect switch, motorized backdraft damper, aluminum air filters, and motor starters for exhaust and supply fans factory installed within cabinet. Wheel size to be 15" minimum and rated at 21.0 sones maximum. Provide painted exterior for supply air fan.

ROOF CURBS: 18 gauge welded galvanized steel, internally insulated, and equipment support rail, set for flat roof. Verify roof pitch and direction before construction.

FURNACE: Direct fired gas furnace to be a modular attachment to the supply fan. Unit set for 7" WC minimum pressure at rated flow, 14" WC maximum, 1" gas supply connection. Furnace control to be electronic spark ignition. Heater includes all controls with duct stat, and disconnect switch. Painted exterior to match fan package.

FAN DISCHARGE: 10'–0" minimum from any building inlet and 40" above building roof.

EXHAUST DUCT: 16 gauge welded black iron exhaust duct, with continuous liquid tight external welds at all seams and joints. Provide 1/4" per foot minimum slope toward hood on all horizontal duct runs. Provide cleanouts every 10'–0" of duct length or at every change of direction, as required per code.

EXHAUST DUCT WRAP: Exhaust ducts serving type I hoods shall be installed with a rated duct wrap system meeting ASTM E2336 Standards, from the point of ceiling penetration (or duct connection) at the hood, to the termination of the duct at the exhaust fan (or exit of the duct from the building). The duct wrap system shall be installed in strict accordance with the system's listing and the manufacturer's instructions for 2 hour rated system 0" clearance to combustible and grease duct installation. System requires two layers of 1.5" uncompressed insulation. Insulation to be banded to the duct with steel banding straps. Penetration of rated walls and floors shall be fire-stopped in accordance with the system manufacturers installation instructions.

MAKE UP AIR DUCT: Light gauge steel construction per SMACNA low pressure standards.

PLENUMS: Make up air plenums at ceiling level, as shown on the drawing. Plenum to be constructed of white clad steel with stainless steel perforated face diffusers.

MAKE UP AIR TAPS IN PLENUM: Flex duct connections, spin–in type, each with balancing damper.

FIRE CONTROL SYSTEM: (1) UL 300 Listed, liquid chemical type. System to provide hood, duct, and required surface protection. System includes, dual micro–switch, and remote manual pull station. Piping to be stainless steel or chrome, where exposed. Fire system to be mounted in cabinet on end of hood.

SYSTEM ACTUATION CONTROL and APPLIANCE INTERLOCK: Hood to include an "Auto–Start" control system as required by the International Mechanical Code, as adopted by state and local agencies. Control to monitor the differential between room ambient and hood interface temperature, activating the hood system fans if the temperature should exceed a preset limit. Hood system will turn off 30 minutes after hood temperature has cooled below the preset limit. Solid state control to monitor up to eight hood locations with all set point and time during adjustment made at a single point.

EXHAUST SYSTEM WORK BY OTHER TRADES:

NOTE: Control switches for hood lights, and exhaust/supply fans to be mounted on Energy Distribution System. Switches to be provided by E.D.S. manufacturer (See E.D.S. Drawings). Gas valve for fire protection system to be provided and installed by E.D.S. manufacturer.

KITCHEN EQUIPMENT CONTRACTOR: Coordinate with General, Electrical, HVAC, and Plumbing contract documents.

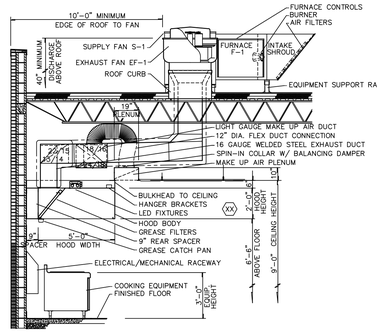
ROOFING CONTRACTOR: Provide roof deck openings. Set in place and flash (with cant if required) roof curbs and equipment support rail furnished by the hood system manufacturer.

STRUCTURAL CONTRACTOR: Frame roof curb openings as required. Coordinate joist or structural member installation to provide required clearances for ductwork and shaft assemblies.

ELECTRICAL CONTRACTOR: (Hood System Requirements) Provide 120/60/1 20 amp circuit, for hood lights and controls to junction box on top of hood. Provide 3 phase circuit (for fan motors) to disconnect switch mounted on exterior of supply fan cabinet. Extend power wiring from motor starter panel (mounted on exterior of supply fan) to connection point on exhaust fan. Provide conduit and four wires from switches mounted on E.D.S. unit to terminal block on supply fan motor starter panel. This work must be in accordance with the N.E.C.

ELECTRICAL CONTRACTOR: (Fire Protection System Requirements) Provide conduit and three wires to micro–switch of fire protection system. Interlock wiring of the supply fans motor control device through the fire system micro switch, shutting off supply air in the event of fire system actuation. Furnish and install a 4" octagon box for the fire system pull station, mounting the centerline of the box at 48" above the finished floor. Run 1/2" only conduit (with no bends) from the top of the box to 6" above the ceiling. If installed in a wall the area around the 1/2" conduit should be notched or set back to allow the pulley elbow fitting for the pull station to be installed. Connections for the fire system wiring must be made in a junction box on the outside of the fire system cabinet. Furnish and install automatic power shut off devices (shunt trip breakers, or definite purpose contactors) with interlock to fire system micro switch, shutting off all power below the hood (including control voltage) in the event of fire system actuation. Interwire gas valve in E.D.S. system to fire protection micro–switch, shutting off gas service to cooking equipment in the event of fire system activation. This work must be in accordance with N.F.P.A. 17A, and the N.E.C.

MECHANICAL CONTRACTOR: Provide net room air demand as indicated on the hood system drawings. This air volume is required only when hood system is in operation. Provide normal heating and cooling of the kitchen area. Connect gas valve (supplied inside the E.D.S. system) to the main supply line serving the cooking equipment to shut off gas service to the cooking equipment in the event of fire system actuation. Provide and install service to gas fired furnace on building roof.



REFERENCE NOTES

A. Roofing Contractor to cutout roof openings, and set in place/flash (with cant if required) roof curbs.

B. Structural Contractor to frame roof openings as required.

C. Hood System Manufacturer to provide and install #16 gauge fully welded steel exhaust duct.

D. Electrical Contractor to furnish control wiring (120 Volt) between hood switch panel and motor starter panel mounted on make up air unit.

E. Electrical Contractor to furnish 3 phase power to motor starter panel mounted on make up air unit (single supply circuit) and extend from motor starter panel to remote exhaust fan.

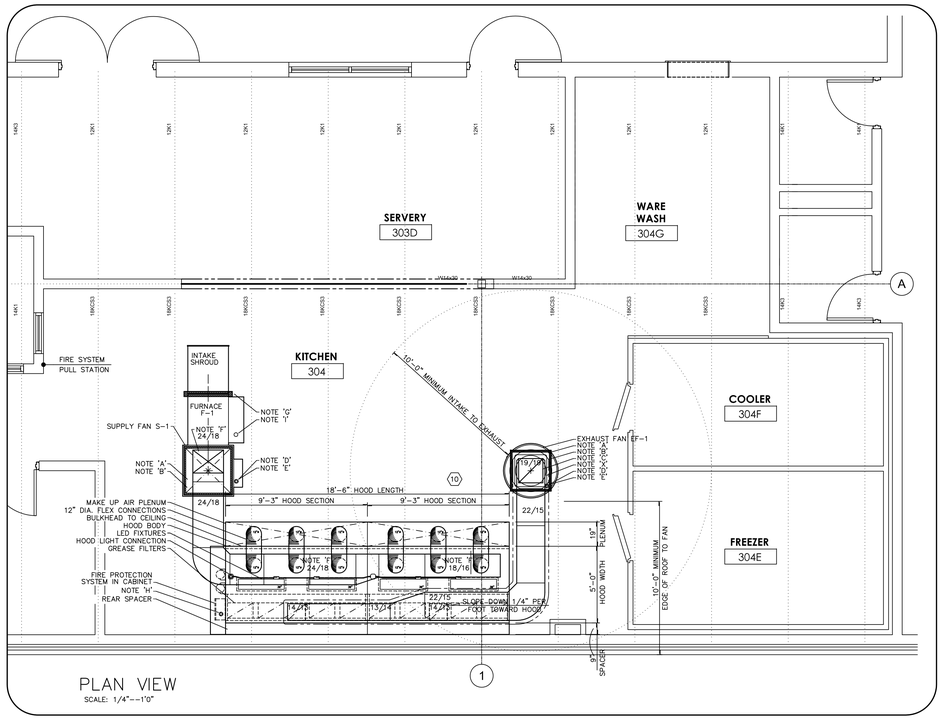
F. Hood System Manufacturer to provide and install light gauge galvanized steel make up air ductwork.

G. Roofing Contractor to set in place and flash (with cant if required) equipment support rail (no roof opening required)

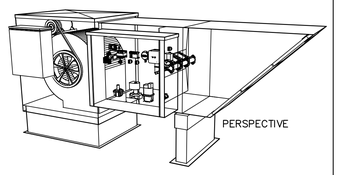
H. Electrical Contractor to furnish control wiring (120 Volt) between micro–switch in fire protection system and hood switch panel.

I. Mechanical Contractor to furnish gas service to furnace (7" WC. Minimum pressure at rated flow, 14" WG. Max. pressure).

X. Hood System Manufacturer to provide and install a fire rated duct wrap system meeting ASTM – E2336 Standards and as required by code.



SUPPLY FAN AND FURNACE



A	B	C	D	E	F	G	FAN WEIGHT	FURNACE WEIGHT	CURB/RAIL WEIGHT
40"	40"	43.5"	44"	38"	35.75"	31.875"	294	158	60

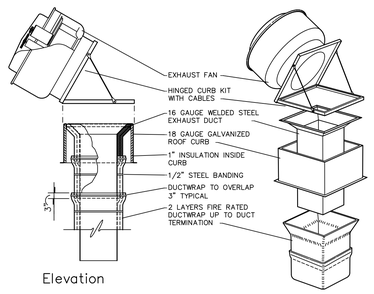
SPECIFICATIONS:

SUPPLY FAN: Fan cabinet constructed of 18 gauge galvanized steel. Forward curved double width, double inlet blower wheel. Die stamped steel housing, 1" steel shaft with sealed ball bearings in rubber mountings. ODP style motor on adjustable base plate. Belt drive, cast iron pulleys with adjustable drive. Motorized back–draft damper and washable aluminum filters.

DIRECT FIRED GAS FURNACE: Modular furnace unit to be constructed to match supply fan. Entire make up air unit to be ETL Listed to ANSI Z83.4–1999 and Z83.4–2001 standards. Low emission, burner of cast aluminum with stainless steel mixing plates. Burner rated for 30:1 turndown ratio. Adjustable profile plate allows adjustment of airflow. All heater controls are housed in a rain–tight cabinet with lift–off door. Burner ignition to be direct spark igniter. Burner operation controlled by solid state flame safety controller. Discharge temperature controlled by Maxitrol modulating gas valve system. Discharge temperature adjustable between 50 to 90 degrees. Intake air thermostat shuts off heater in mild weather. Standard manifold to be set for 7" W.C. gas pressure. Unit set for 7" WC minimum pressure at rated flow, 14" WC maximum, 1" gas supply connection.

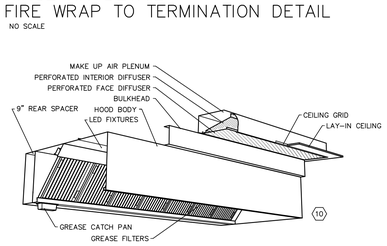
MOTOR STARTER PANEL: Factory pre–wired motor starter panel mounted on exterior of the supply fan cabinet. Rain resistant cabinet of 18 gauge galvanized steel with a lift–off cover. Main disconnect switch for incoming 3 phase power, control power disconnect switch and terminal blocks for all control connections. Each motor is controlled by a motor starter with branch circuit fusing, adjustable overload protection and loss of phase protection. Automatic shut–down of supply fan if fire protection system discharges.

ROOF CURB AND EQUIPMENT SUPPORT RAIL: Fabricated for a flat roof. Curb constructed of 18 gauge galvanized steel, fully welded construction. Curbs internally lined with foil faced, rigid fiberglass insulation. Equipment support rail of same construction with adjustable cap for leveling equipment in field.



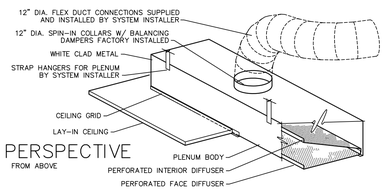
HINGE KIT DETAIL
FIRE WRAP TO TERMINATION DETAIL

NO SCALE



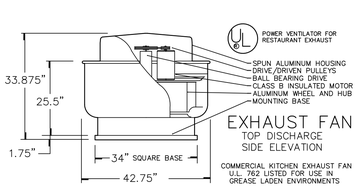
HOOD PERSPECTIVE

NO SCALE



PERSPECTIVE
FROM ABOVE

NOTE: Do Not allow fasteners from ceiling grid to obstruct perforated diffuser removal.



EXHAUST FAN
TOP DISCHARGE
SIDE ELEVATION

COMMERCIAL KITCHEN EXHAUST FAN U.L. 762 LISTED FOR USE IN GREASE LADEN ENVIRONMENTS

Motor compartment to be provided with forced air cooling, with compartment sealed against contaminated exhaust air.

All aluminum wheel with non–overloading backward inclined blades.

Spun aluminum corrosion resistant housing, mounted on a heavy duty steel substructure.

Ball bearing drive, prelubricated, mounted inside motor compartment outside air stream.

Units to be of Type B construction.

Junction box, externally mounted on the fan body, factory prewired for field access.

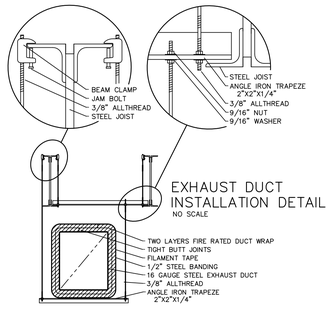
Commercial Kitchen
Grease Exhaust Duct
Cleanout/Access Door Detail

Perspective
NO SCALE

FIRE RATED
GREASE DUCTWRAP

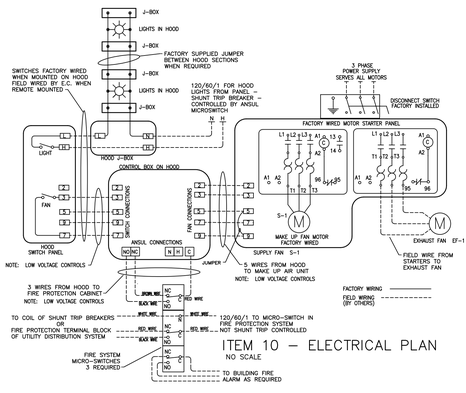
HOOD MOUNTING DETAIL

NO SCALE



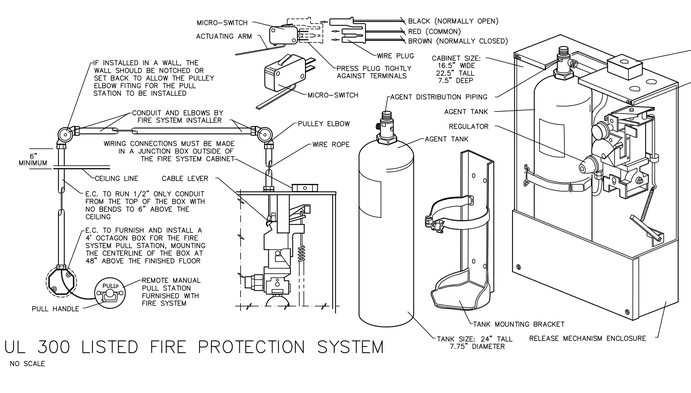
EXHAUST DUCT
INSTALLATION DETAIL

NO SCALE



ITEM 10 – ELECTRICAL PLAN

NO SCALE



UL 300 LISTED FIRE PROTECTION SYSTEM

NO SCALE

UL 300 LISTED LIQUID CHEMICAL FIRE PROTECTION SYSTEM AND TANK(S).

ALL EXPOSED PIPEWORK TO BE STAINLESS STEEL OR CHROME WHERE EXPOSED.

VERIFY LOCATION OF REMOTE MANUAL PULL STATION. UNIT MUST BE PLACED WITHIN EASY ACCESS OF EXIT DOOR.

MICRO–SWITCH FURNISHED WITH SYSTEM TO BE INTERWIRED TO THE SHUT–OFF DEVICES FOR THE COOKING EQUIPMENT BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL POWER DISCONNECT DEVICES FOR ALL EQUIPMENT BELOW THE HOOD, SHUTTING OFF ALL SERVICE, INCLUDING CONTROL VOLTAGE, UPON ACTIVATION OF THE FIRE PROTECTION SYSTEM.

ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL AN OCTAGON SHAPED HANDY BOX FOR THE PULL STATION AT 48" ABOVE THE FLOOR WITH 1/2" CONDUIT FROM THE TOP OF THE BOX TO 6" ABOVE THE CEILING.

GAS SHUT–OFF VALVE FURNISHED WITH THE SYSTEM (IF REQUIRED) TO BE INSTALLED IN THE GAS LINE SERVING THE COOKING EQUIPMENT BY THE PLUMBING CONTRACTOR. VERIFY SIZE OF GAS LINE.

FAN	HOOD SERVED	ROOF OPENING	TYPE	WHEEL SIZE	SONES	CFM	STATIC PRESS	WEIGHT	HP	VOLTAGE PHASE
EF–1	H–1, H–2	30"X30"	EXHAUST	22"	15.5	4,470	1.0"	138	2.0	208/60/3
S–1	H–1, H–2	36"X36"	SUPPLY	15"	21.0	3,576	1.5"	294	2.0	208/60/3

FURNACE	TYPE	INPUT B.T.U.	CONTROL CIRCUIT	WEIGHT
F–1	DIRECT	264,250	120/60/1	158

HOOD ITEM	HOOD SIZE	HOOD WEIGHT	EXHAUST CFM	EXHAUST DUCT SIZE	EXHAUST DUCT VELOCITY	EXHAUST S.P.	SUPPLY CFM	SUPPLY AIR DUCT SIZE	SUPPLY AIR DUCT VELOCITY	SUPPLY S.P.
H–1	9'3"X5'0"	275	2,235	13"X14"	1,768	.625"	(3)596	(3)12" DIA.	758	.25"
H–2	9'3"X5'0"	275	2,235	13"X14"	1,768	.625"	(3)596	(3)12" DIA.	758	.25"

SYSTEM TOTALS	
EXHAUSTED AIR	4,470
TEMPERED SUPPLY AIR	3,576
RETURN AIR THRU BUILDING SOURCES	894

rosstarrant architects
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KITCHEN EQUIPMENT FLOOR PLAN
BURGIN INDEPENDENT SCHOOL RENOVATION & ADDITION
FOR:
BURGIN BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer
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Structural Engineer:
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Food Service Consultant
Joby Smith & Associates, Inc.
7 East Ave.
Monroe, OH 45050
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BG# 19-262

Project No: 1904
Drawn By: JSA
Rev'd By: JSA

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CONSTRUCTION DOCUMENTS

By: JSA
Revision:

Date Drawn: 31 July 2019
Drawing No: H–1

FS1.3

FOOD SERVICE HOOD SYSTEMS DETAILS

DATE ISSUED: 9/13/19

REVISIONS

#	DATE	DESCRIPTION

PLAN NORTH

SITE PLAN

SCALE: 1" = 40'-0"

GENERAL UTILITY NOTES:

A. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.

B. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.

C. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.

D. THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS REQUIRED OR SHOWN ON DRAWINGS.

E. REATTACH ALL TAPS AND TRANSFORMERS AS TO MAINTAIN EXISTING PHASE CONNECTIONS.

F. CONTRACTOR RESPONSIBLE FOR MAINTAINING DOWNSTREAM SERVICE FROM REMOVED EQUIPMENT ON SITE. INCLUDING BUT NOT LIMITED TO SITE LIGHTING, TRANSFORMERS, ETC.

TAGGED NOTES

1. EXISTING FIRE HYDRANT SHALL REMAIN.
2. WATER AND GAS PIPING IN THIS AREA SHALL REMAIN.
3. EXISTING WATER LINE SHALL REMAIN.
4. EXISTING SEWER LATERAL SHALL BE REMOVED.
5. EXISTING MANHOLE SHALL BE REMOVED.
6. EXISTING SANITARY SEWER LINE SHALL BE REMOVED.
7. EXISTING WATER METER SHALL REMAIN.
8. EXISTING UTILITIES TO BUILDING SHALL BE CAPPED AND ABANDONED IN PLACE.
9. REMOVE EXISTING WATER METER AND WATER METER SETTING.
10. EXISTING WATER METER AND VALVES SHALL REMAIN.
11. CAP EXISTING WATER LINE AND REMOVE BACK TO EXISTING METER.
12. REMOVE EXISTING MANHOLE. FIELD VERIFY EXACT LOCATION.
13. CAP EXISTING WATER LINE BACK TO MAIN AND REMOVE WATER LINE. FIELD VERIFY EXACT LOCATION AND DEPTH.
14. REMOVE EXISTING SANITARY CLEAN–OUT AND REPLACE WITH NEW MANHOLE. REFER TO SHEET UM3.0.
15. DEMOLISH AERIAL FIBER OPTIC CABLE. REFER TO UE1.0 FOR NEW UNDERGROUND FIBER OPTIC CABLE PATHWAY AND CABLE.
16. AERIAL CONDUCTORS FOR SITE LIGHTING TO BE DEMOLISHED BY KENTUCKY UTILITIES. COORDINATE WORK WITH UTILITY COMPANY.
17. WOODEN LIGHT POLE AND ASSOCIATED LIGHT FIXTURE TO BE DEMOLISHED BY KENTUCKY UTILITIES. COORDINATE WORK WITH UTILITY COMPANY.
18. DEMOLISH LIGHT POLE, LIGHT FIXTURE, AND ASSOCIATED UNDERGROUND CONDUIT AND CONDUCTORS BACK TO SOURCE.
19. DEMOLISH UNDERGROUND CONDUIT AND CONDUCTORS SERVING PANELBOARD IN STORAGE BUILDING BACK TO SOURCE.
20. ABANDON DIRECT BURY TELEPHONE CABLE IN PLACE. REFER TO UE1.0 FOR NEW UNDERGROUND TELEPHONE PATHWAY AND CABLE.
21. DEMOLISH WEATHERHEAD FOR FIBER OPTIC CABLING. REMOVE CONDUIT TO WITHIN 6" OF ROOF, PROVIDE CAP, FILL REMAINING CONDUIT WITH INSULATION, AND ENSURE A WEATHERTIGHT SEAL.
22. PATCH AND SEAL ALL ABANDONED PENETRATIONS DUE TO DEMOLISHED UTILITIES.
23. DEMOLISH THE EXPOSED EXTERIOR AND UNDERGROUND PORTIONS OF CONDUIT AND CONDUCTORS SERVING PANEL G. UNDERGROUND. INTERIOR CONDUIT AND CONDUCTORS TO REMAIN TO BE SPLICED INTO NEW UNDERGROUND FEEDER. REFER TO UE1.0, E2.0 AND E4.0 SHEETS FOR ADDITIONAL INFORMATION.
24. EXISTING ELECTRICAL 3–PHASE OVERHEAD SERVICE ENTRANCE TO REMAIN.
25. ALL UNDERGREOUND ELECTRICAL UTILITIES IN THIS AREA ARE TO REMAIN.
26. DEMOLISH ALL EXPOSED CONDUIT AND ENCLOSURE FOR FIBER OPTIC CABLING. PATCH AND SEAL PENETRATION WEATHERTIGHT.
27. EXISTING MANHOLE SHALL REMAIN.
28. EXISTING SANITARY SEWER LINE AND SYSTEM SHALL REMAIN.
29. MAINTAIN A PORTION OF UNDERGROUND CONDUIT TO TIE INTO FOR NEW PANEL FEEDER.

SITE UTILITIES LEGEND

EXISTING		NEW
	GUY WIRE	
	MANHOLE	MH
fh	FIRE HYDRANT	
	EXTERIOR CLEANOUT	ECO
	WATER VALVE	
	GAS VALVE	

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1–800–752–6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

DESIGNER NOTE FOR 50% CD REVIEW BY CONSTRUCTION MANAGER:

PLEASE NOTE THAT THESE PLANS ARE PRELIMINARY. RECENT SITE INVESTIGATION HAS REVEALED INCONSISTENCIES WITH THE SITE SURVEY INFORMATION INITIALLY RECEIVED. SITE UTILITY ROUTINGS ANTICIPATED TO CHANGE SIGNIFICANTLY FROM THAT CURRENTLY SHOWN. PLEASE REFER TO REVISED PLANS FORTHCOMING AT 1/24/2018 EARLY SITE UTILITY PACKAGE REVIEW MEETING.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

STATE OF KENTUCKY
BENJAMIN DALE HOBBS
29822
LICENSED PROFESSIONAL ENGINEER

MECHANICAL AND ELECTRICAL SITE PLAN - DEMOLITION

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

M.E.&P Engineer:
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BG# 19-262

Project No: 1904
Drawn By: CE
Rev'd By: BH

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CONSTRUCTION DOCUMENTS

U1.0

DATE ISSUED: 09/13/19

REVISIONS		
#	DATE	DESCRIPTION

PLAN NORTH

SITE PLAN

SCALE: 1" = 40'-0"

GENERAL NOTES:

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.

B. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED. FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.

C. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

D. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

E. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OR ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.

F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

G. CONTRACTOR SHALL PATCH AND REPAIR ALL LANDSCAPING THAT IS DISTURBED BY WORK OCCURRING IN THIS PROJECT AS REQUIRED.

H. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.

I. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.

J. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.

K. CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY COST, UTILITY CONNECTION COSTS, METER FEES, EXTENSION AND DEVELOPMENT CHARGES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

L. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UNDERGROUND WATER LINES, GAS LINES, SANITARY LINES, SEWER LINES, VAULTS, ETC., WITH ELECTRICAL PULL BOXES, CONDUITS, POLE BASES ETC. SPECIFICALLY COORDINATE PLACEMENT OF CHILLED WATER PIPING IN PARKING LOTS WITH POLE BASE LOCATIONS AND NOTIFY A/E IF CONFLICTS ARISE.

M. WATER LINES, FORCE MAIN AND GAS LINES SHALL BE INSTALL 36" DEEP MINIMUM.

TAGGED NOTES

1. NEW FIRE HYDRANT. REFER TO DETAIL.
2. REMOVE EXISTING SANITARY CLEAN-OUT AND INSTALL NEW MANHOLE. FIELD VERIFY ALL CONNECTION AND DEPTHS BEFORE ORDERING MANHOLE.
3. CONNECT TO EXISTING WATER MAIN. FIELD VERIFY EXACT LOCATION AND DEPTH.
4. 1500 GALLON GREASE TRAP 10'X5'X5'WIDE. REFER TO DETAIL..
5. EXISTING WATER METER AND FIRE PROTECTION VAULT SHALL REMAIN.
6. NEW DOMESTIC WATER METER AND FIRE PROTECTION VAULT. REFER TO DETAIL.
7. CONNECT EXISTING 4" SANITARY LINE TO NEW SANITARY LINE. FIELD VERIFY EXACT LOCATION AND DEPTH.
8. 6" ROOF LEADER. INVERT ELEVATION 2'-6" BELOW FINISHED FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN FOR CONTINUATION.
9. 4" SANITARY INVERT ELEVATION 5'-0" BELOW FINISHED FLOOR ELEVATION.
10. 4" GREASE WASTE INVERT ELEVATION 3'-6" BELOW FINISHED FLOOR ELEVATION.
11. CONNECT TO EXISTING SANITARY SEWER MAIN IF ALTERNATE #1 IS ACCEPTED.
12. 4" SANITARY INVERT ELEVATION 2'-6" BELOW FINISHED FLOOR ELEVATION. REFER TO SHEET P3.1.

SITE UTILITIES LEGEND

EXISTING		NEW
	GUY WIRE	
	MANHOLE	MH
fh	FIRE HYDRANT	
	EXTERIOR CLEANOUT	ECO
	WATER VALVE	
	GAS VALVE	

BEFORE YOU DIG

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DESIGNER NOTE FOR 50% CD REVIEW BY CONSTRUCTION MANAGER:

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rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

MECHANICAL SITE PLAN - NEW WORK

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

M,E,&P Engineer:
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Structural Engineer:
Structural Design Group, Inc.
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BG# 19-262

Project No: 1904
Drawn By: CE
Rev'd By: BH

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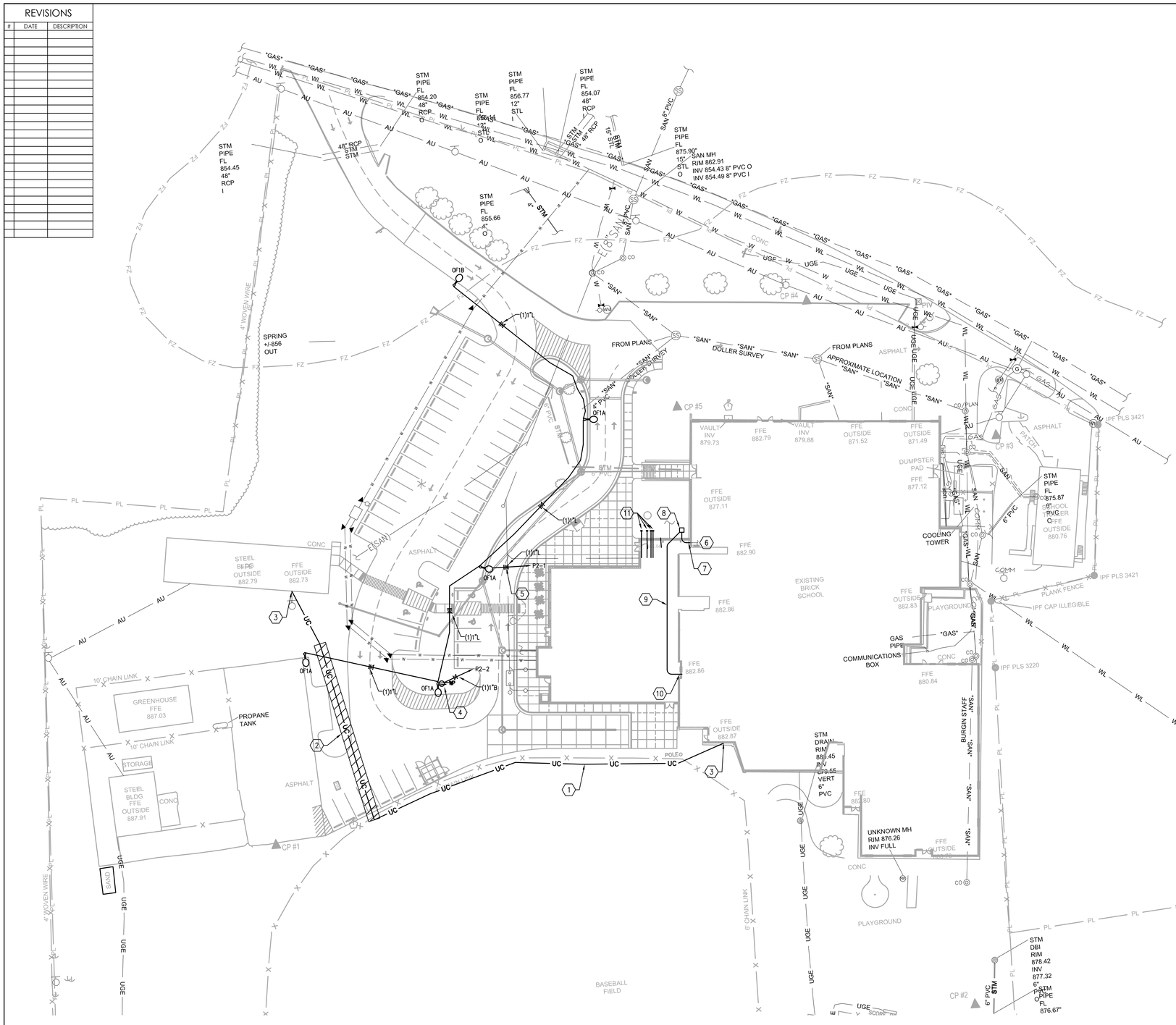
CONSTRUCTION DOCUMENTS

UM2.0

DATE ISSUED: 09/13/19

REVISIONS		
#	DATE	DESCRIPTION



GENERAL NOTES:

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.

B. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.

C. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

D. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

E. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.

F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

G. CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES.

H. COORDINATE ELEVATION AND LOCATION OF ALL CONDUITS ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTING AS REQUIRED.

I. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.

J. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.

K. THE UTILITY/CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.

L. THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS REQUIRED OR SHOWN ON DRAWINGS.

M. COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FUTHER INFORMATION.

N. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWING FOR FOOTER SYSTEM LOCATIONS. CONTRACTOR SHALL AVOID INSTALLING UNDERGROUND CONDUITS THROUGH FOOTER SYSTEM.

O. COORDINATE INSTALLATION OF PULL BOXES, POLE BASES, ETC, WITH GRADING PLANS TO ENSURE PROPER MOUNTING ELEVATIONS.

P. UNDERGROUND PRIMARY AND COMMUNICATIONS DUCTBANK SHALL MAINTAIN A MINIMUM SEPARATION OF 10' FROM WATER, SANITARY, AND GAS LINES.

Q. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UNDERGROUND GEOTHERMAL PIPING, WATER LINES, GAS LINES, SANITARY LINES, SEWER LINES, VAULTS, ETC., WITH ELECTRICAL PULL BOXES, CONDUITS, POLE BASES ETC. SPECIFICALLY COORDINATE PLACEMENT OF GEOTHERMAL PIPING IN PARKING LOTS WITH POLE BASE LOCATIONS AND NOTIFY A/E IF CONFLICTS ARISE. CONTRACTOR SHALL ADJUST ROUTING OF ELECTRICAL CONDUITS TO AVOID GEOTHERMAL PIPING ROUTES AND VAULTS IN THE PARKING AREAS.

R. CONTRACTOR SHALL REFERENCE SHEET S2.1 FOR COORDINATION BETWEEN UNDERGROUND CONDUIT AND STRUCTURAL.

S. CONTRACTOR SHALL REFERENCE SHEET SD1.1 BORING AND SOUNDINGS PLAN IN COORDINATING DUCTBANKS AND ROCK EXCAVATION.

TAGGED NOTES: (#)

1. PROVIDE 12 STRAND MULTIMODE FIBER OPTIC CABLING AND 25 PAIR COPPER PHONE CABLING TO SITE AG BUILDING. COMPLETE INSTALLATION WITHIN ONE (1) WEEK OF DEMOLITION OF AERIAL FIBER TO SITE AG BUILDING TO RESTORE PHONE AND NETWORK OPERATION.

2. CONTRACTOR SHALL CUT TRENCH THROUGH EXISTING ASPHALT IN THIS AREA FOR NEW COMMUNICATIONS DUCTBANK. PACK TRENCH WITH GRAVEL FOR USE DURING CONSTRUCTION. AREA TO BE PAVED OVER WITH NEW PARKING LOT SURFACE AT END OF PROJECT.

3. PROVIDE RIGID GALVANIZED CONDUIT ABOVE GRADE. REUSE EXISTING BUILDING PENETRATION AT THIS LOCATION. RESEAL PENETRATION TO ENSURE FINAL INSTALLATION IS WEATHERTIGHT. PAINT EXPOSED CONDUIT. ARCHITECT TO SELECT COLOR.

4. PROVIDE HEAVY DUTY LOCKABLE WHILE-IN-USE COVER FOR RECEPTACLE INSTALLED IN LIGHTING POLE.

5. PROVIDE COPPER REDUCING LUGS ON WIRE AS REQUIRED TO TERMINATE TO DEVICES. (TYPICAL ON SITE)

6. EXACT CONDUIT ROUTING UNDER BUILDING FOOTPRINT IS NOT KNOWN. REFER TO SHEET E4.0 FOR CONTINUATION.

7. INTERCEPT EXISTING UNDERGROUND CONDUIT SERVING PANEL G AND EXTEND NEW CONDUIT TO HANDHOLE AS SHOWN.

8. PROVIDE NEW HANDHOLE SIZED AS REQUIRED PER NEC. EXCAVATE PORTION OF ROCK SURROUNDING HANDHOLE TO ROUTE CONDUITS UP THROUGH BASE. REFER TO UE2.0 FOR HANDHOLE DETAIL. REFER TO UM SERIES AND PLUMBING DRAWINGS AND COORDINATE WITH OTHER UTILITIES IN THIS AREA.

9. EXTEND NEW CONDUIT AS SHOWN TAKING CARE TO COORDINATE WITH NEW UNDERGROUND ROOF DRAIN ROUTING. REFER TO PLUMBING PLANS FOR NEW WORK IN THIS AREA. REFER TO SHEET S2.1 FOR COORDINATION WITH FOUNDATIONS AND FOOTINGS.

10. COORDINATE NEW UNDERGROUND CONDUIT INSTALLATION THROUGH EXISTING FOUNDATION. SAW CUT, PATCH, AND REPAIR INTERIOR CONCRETE SLAB.

11. PROVIDE THE FOLLOWING SPARE CONDUITS STUBBED OUT BELOW GRADE FIVE (5) FEET PAST THE BUILDING FOUNDATION, CAPPED AND SEALED WITH PULLSTRING:
 11.1. ONE (1) 4" FROM SDB3.
 11.2. ONE (1) 2" FROM SDB3.
 11.3. FOUR (4) 1" FROM P1.
 11.4. FOUR (4) 1" FROM P2.
 11.5. ONE (1) 4" FROM IDF ROOM.

ELECTRICAL UTILITY COMPANY CONTACTS:

ROBERT ROYALTY	859-936-3240	KENTUCKY UTILITIES
–	–	–
–	–	–

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET LOCAL ORDINANCE AND MUNICIPAL REQUIREMENT RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

UNDERGROUND UTILITIES COORDINATION NOTE

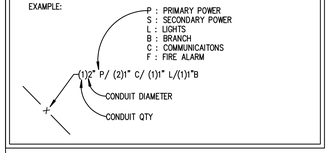
PROVIDE SLOW BENDS IN UNDERGROUND COMMUNICATIONS AND POWER DUCTBANKS AS REQUIRED. COORDINATE BURIAL DEPTHS OF COMMUNICATIONS AND POWER DUCTBANKS WHERE THEY CROSS WATER, GAS, AND SANITARY SEWER LINES. ADJUST BURIAL DEPTH OF DUCTBANKS AS NECESSARY, NOTIFY ENGINEER IF BURIAL DEPTHS ADJUSTMENTS EXCEEED 12". BURIAL DEPTHS AT A MINIMUM SHALL BE IN ACCORDANCE WITH TABLE 300.F OF THE NATIONAL ELECTRICAL CODE.

SITE UTILITIES LEGEND

	EXISTING	DEMOLITION	NEW
OVERHEAD PRIMARY	E(OP)	D(OP)	OP
UNDERGROUND PRIMARY	E(UP)	D(UP)	UP
OVERHEAD COMMUNICATION	E(OC)	D(OC)	OC
UNDERGROUND COMMUNICATION	E(UC)	D(UC)	UC
OVERHEAD SECONDARY	E(OS)	D(OS)	OS
UNDERGROUND SECONDARY	E(US)	D(US)	US
OVERHEAD LIGHTING	E(OL)	D(OL)	OL
UNDERGROUND LIGHTING	E(UL)	D(UL)	UL
OVERHEAD BRANCH CIRCUIT	E(OB)	D(OB)	OB
UNDERGROUND BRANCH CIRCUIT	E(UB)	D(UB)	UB
UTILITY POLE SINGLE	○	●	○
SINGLE PHASE POLE MOUNTED TRANSFORMER	△	▲	△
THREE PHASE POLE MOUNTED TRANSFORMER	▽△	▼▲	▽△

REFER TO TYPICAL DUCTBANK DETAIL ON SHEET UE3.0 FOR ALL UNDERGROUND ELECTRIC, COMMUNICATIONS, AND FIRE ALARM.

EXAMPLE:



PLAN NORTH

SITE PLAN

SCALE: 1" = 30'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

STATE OF KENTUCKY COREY J. CRAWFORD 30839 LICENSED PROFESSIONAL ENGINEER

ELECTRICAL SITE PLAN

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M.E.&P Engineer:
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2429 Members Way
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: CC
Rev'd By: CC

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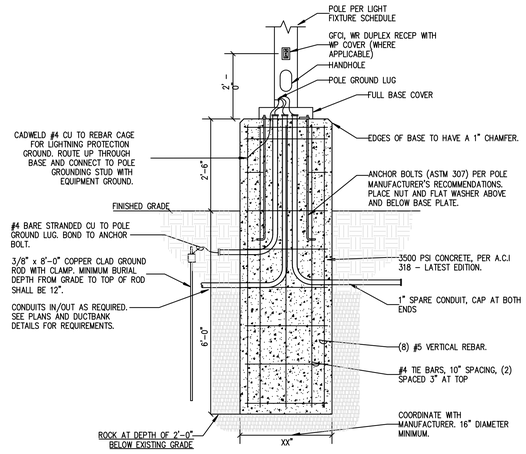
CONSTRUCTION DOCUMENTS

UE1.0

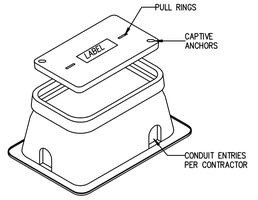
DATE ISSUED: 9/13/19

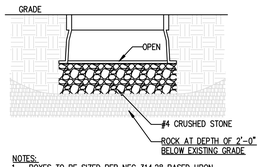
REVISIONS

#	DATE	DESCRIPTION

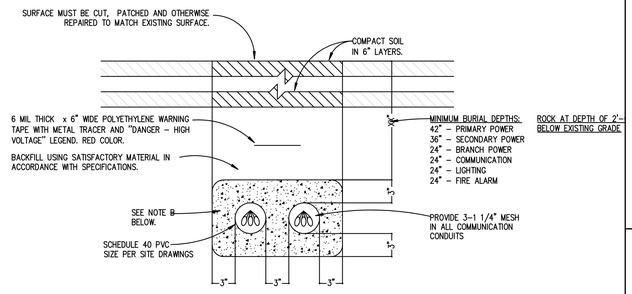


NOTES:
1. CONTRACTOR SHALL EXCAVATE ROCK FOR BOX POLE BASE INSTALLATION.
2. POLE BASE TO HAVE ARCHITECTURAL CONCRETE FINISH: PATCH ALL SURFACE VOIDS AND DEFECTS. REMOVE ALL FINS AND FORM MARKS COMPLETELY. PRODUCE FINISH ON NEWLY HARDENED CONCRETE NO LATER THAN THE DAY FOLLOWING FORMWORK REMOVAL. WET THE SURFACE AND RUB IT WITH CARBORUNDUM OR OTHER ABRASIVE UNTIL UNIFORM COLOR AND TEXTURE ARE PRODUCED. USE NO CEMENT GROUT OTHER THAN CEMENT PASTE DRAWN FROM THE CONCRETE ITSELF BY THE RUBBING PROCESS.





NOTES:
1. BOXES TO BE SIZED PER NEC 314.28 BASED UPON FIELD CONFIGURATION OF CONDUIT ENTRIES. PROVIDE EXTENSIONS WHERE REQUIRED.
2. BOX AND LID TO BE CONSTRUCTED OF POLYMER CONCRETE. LID TIER RATING PER INSTALLED LOCATION.
3. REFER TO SPECIFICATIONS FOR RELATED INFORMATION.
4. CONTRACTOR SHALL EXCAVATE ROCK FOR BOX AND CONDUIT INSTALLATION.



NOTES:
A. USE SWEEPING BENDS AT ALL TURNS AND RIGID STEEL ELLS WHERE RISING ON POWER POLE OR TURNING UP INTO PAD-MOUNT.
B. DUCTBANK DEPTHS INDICATED ARE MINIMUMS. WHERE MINIMUM DEPTH CANNOT BE ACHIEVED DUE TO SHALLOW ROCK CONTRACTOR SHALL EXCAVATE ROCK OR PROVIDE A MINIMUM OF 3" COVER OF CONCRETE SURROUNDING ENTIRETY OF DUCTBANK. POUR CONCRETE AGAINST UNDISTURBED EARTH OR ROCK.
C. PROVIDE PULL STRING IN ALL UNUSED CONDUITS.

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STATE OF KENTUCKY
COREY J. CRAWFORD
30839
LICENSED PROFESSIONAL ENGINEER

ELECTRICAL SITE DETAILS

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR:

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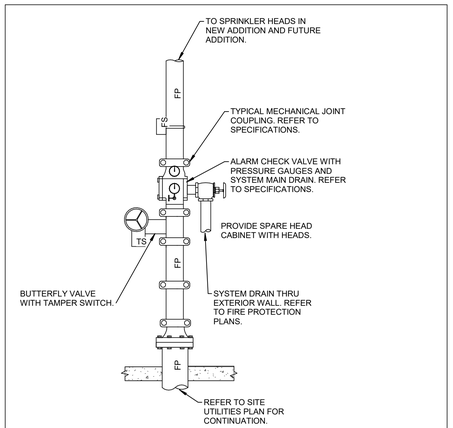
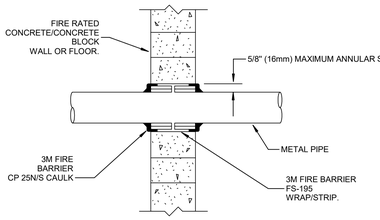


2 FIRE PROTECTION SYSTEM RISER
SCALE: NONE



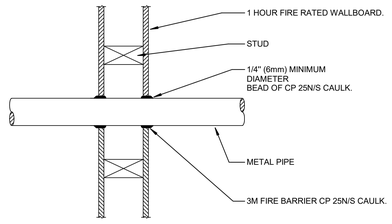
NOTES:

1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
3. USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILL OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH A CONCRETE WALL
NOT TO SCALE

FIRE STOPPING NOTES:

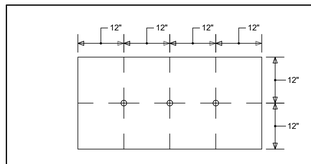
1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRESTOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED.
2. A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT HOSPITAL ENGINEER AND CMTA TO ADVISE OF DATE AND TIME OF THIS MEETING.
3. ALL PENETRATIONS WILL BE REVIEWED BY THE HOSPITAL ENGINEER OR CMTA. PRIOR TO INSPECTION. ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.



NOTES:

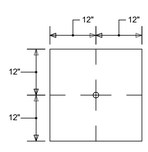
1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL
NOT TO SCALE



SPRINKLER HEADS MAY BE INSTALLED IN 2x4 CEILING TILES IN ANY OF THE THREE LOCATIONS INDICATED ABOVE. NO EXCEPTIONS!

2x4 CEILING TILE DETAIL
SCALE: NONE



SPRINKLER HEADS TO BE INSTALLED IN CENTER OF 2x2 CEILING TILES.

2x2 CEILING TILE DETAIL
SCALE: NONE

GENERAL NOTES - FIRE PROTECTION

A. ALL AREAS SHALL BE PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM INSTALLED IN STRICT ACCORDANCE WITH NFPA-13, THE KENTUCKY BUILDING CODES AND THE PROJECT SPECIFICATIONS.
B. ALL AREAS ARE PRESENTLY PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR SHALL MODIFY THE SYSTEM AS REQUIRED TO MAINTAIN 100% PROTECTION, IN ACCORDANCE WITH NFPA 13, KENTUCKY BUILDING CODE AND SPECIFICATIONS.
C. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR LAYING OUT THE SPRINKLER HEADS. THE REFLECTED CEILING PLANS SHOWN ARE TO COORDINATE CEILING TYPES AND LOCATIONS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING DEVICE LOCATIONS. REFER TO THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
D. INSTALL HEADS IN CENTER OF 2'X2' TILES. INSTALL HEADS ON 1/4 POINTS OF THE 4' DIMENSION AND CENTER OF THE 2' DIMENSION IN 2'X4' TILES. DO NOT MOUNT HEADS IN CENTER OF 2'X4' TILE IF IT IS SCORED TO LOOK LIKE TWO 2'X2' TILES.
E. ALL SPRINKLER HEADS SHALL BE "SEMI-RECESSED", QUICK RESPONSE SPRINKLER HEADS (UNLESS OTHERWISE NOTED ON THE PLANS.) HEADS SHALL BE FED FROM A RETURN BEND ARRANGEMENT.
F. UTILIZE UPRIGHT AND/OR WALL-MOUNTED TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS.
G. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HIS OWN FLOW TEST PRIOR TO SUBMITTING SHOP DRAWINGS.
H. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICAITONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT. HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE REQUIRED TO COMPLETELY DRAIN THE SYSTEM.
I. REFER TO THE SPECIFICATIONS FOR SPRINKLER HEAD TYPES.
J. PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS OR A FLOOR DRAIN.
K. SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.
L. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO THE M/E ENGINEER.
M. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS.
N. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
O. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
P. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
Q. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
R. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
S. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
T. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
U. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
V. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.
W. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
X. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
Y. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
Z. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
AA. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
BB. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

PHASING NOTES

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

HAZARDOUS MATERIALS NOTES

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

ABBREVIATIONS

ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
CLG	CEILING
CLR	CLEAR
DN	DOWN
ENGR	ENGINEER
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
FVC	FIRE VALVE CABINET
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET **OR** FOOT
FUT	FUTURE
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
LBS	POUNDS
LF	LINEAR FEET/FOOT
MAX	MAXIMUM
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
SQ FT	SQUARE FEET **OR** FOOT
TBD	TO BE DETERMINED

ABBREVIATIONS (CONTINUED)

TE	TOP ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
℄	CENTERLINE

GENERAL SYMBOLS

#	TAGGED NOTE DESIGNATOR
1	REVISION TRIANGLE
ROOM NAME / (RT.)	ROOM TAG
TAG XXX-# / INSTANCE XXXX	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

MECHANICAL PIPING LEGEND

—○—	PIPE ELBOW TURNING UP
—⊃—	PIPE ELBOW TURNING DOWN
—⊙—	PIPE TEE; CONNECTION ON TOP
—⊕—	PIPE TEE; CONNECTION ON BOTTOM
—⊣	PIPE CAP
—FP—	FIRE PROTECTION PIPING
- - D(XXX) - -	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
—⊣/⊢—	STRAINER
—⋈—	MANUAL ISOLATION VALVE
—⋈—	GLOBE VALVE
—⋈—	OS&Y (GATE) VALVE
—⋈—	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
—⋈—	CHECK VALVE
—⋈—	DOUBLE CHECK VALVE ASSEMBLY
—▨—	FLEXIBLE PIPE CONNECTION
—⫠—	PIPING UNION
—FS—	FLOW SWITCH
—PS—	PRESSURE SWTICH
—TS—	TAMPER SWITCH
—T—	PETE'S PLUG; TEMPERATURE/PRESSURE PORT
●	SEMI-RECESSED SPRINKLER HEAD WITH REMOVABLE ESCUTCHEON PLATE
◉	UPRIGHT TYPE SPRINKLER HEAD
▶	SIDEWALL TYPE SPRINKLER HEAD

APPLICABLE BUILDING CODES

APPLICABLE BUILDING CODES	DOCUMENT	YEAR
FIRE SPRINKLER CODE	NFPA 13	2018
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2018
INTERNATION FIRE CODE (IFC)	STATE EDITION	2018
INTERNATION MECHANICAL CODE (IMC)	STATE EDITION	2018
KENTUCKY PLUMBING CODE (KSPC)	STATE EDITION	2018
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2010

FIRE PUMP FLOW DATA:

STATIC PSI: 68

RESIDUAL PSI: 47

FLOW: 1095 GPM

DURATION: CONTINUOUS

DATE & TIME: JUNE 14, 2019

SOURCE OF WATER: CITY WATER MAIN

SOURCE OF DATA: BROWN SPRINKLER

HAZARD: LIGHT/ORD

OCCUPANCY OF BUILDING: EDUCATION

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COMMONWEALTH OF KENTUCKY
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FIRE PROTECTION LEGEND

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REVISIONS		
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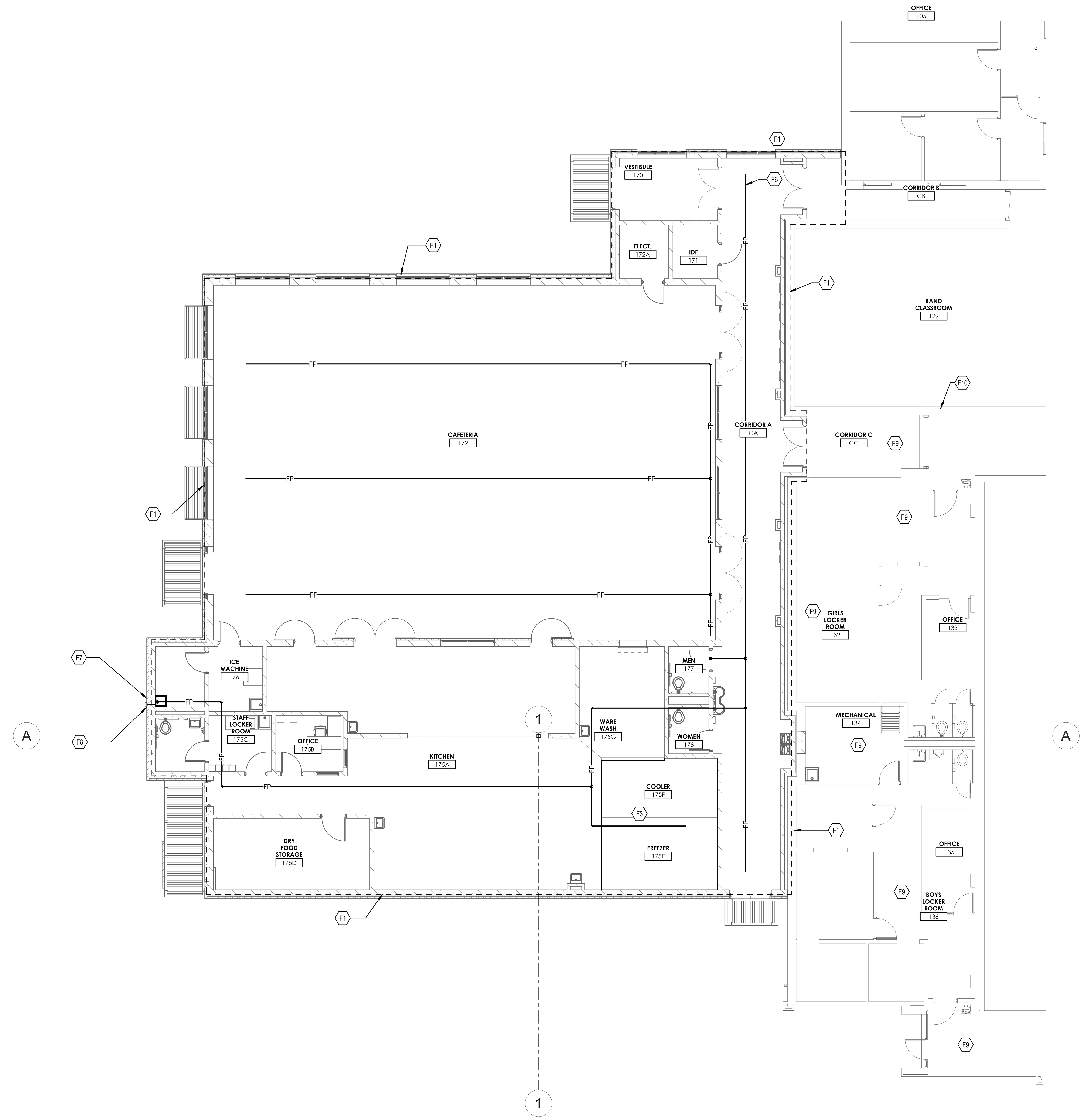

LEVEL 1 FIRE PROTECTION PLAN
1/8" = 1'-0"
1 FP2.0

TAGGED NOTES

F1	THE ENTIRE OUTLINED AREA SHALL BE PROTECTED WITH A 100% WET TYPE SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13. PROVIDE EXTNDED COVERAGE, SIDEWALL, AND FREEZE PROOF HEADS AS REQUIRED. NOTE THAT SPINKLER MAINS ARE SHOWN FOR COORDINATION PUPOSES ONLY. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT MAINTENANCE/SERVICES, AND ARCHITECTURAL FINISH CLEARANCES.
F3	PROVIDE FREEZER AND COOLER WITH FREEZE PROOF SPRINKLER HEADS.
F6	CONTRACTOR SHALL PROVIDE DRAIN DOWNS AND TEST TEES AS REQUIRED.
F7	PROVIDE INSPECTOR'S TEST STATION. SPILL TO CONCRETE SPLASH BLOCK.
F8	WATER MOTOR GONG.
F9	EXISTING FIRE PROTECTION SYSTEM SHALL REMAIN.
F10	EXISTING FIRE PROTECTION MAINS AND BRANCH LINE THAT CANNOT BE REUSED SHALLED BE CAPPED.

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FIRE PROTECTION PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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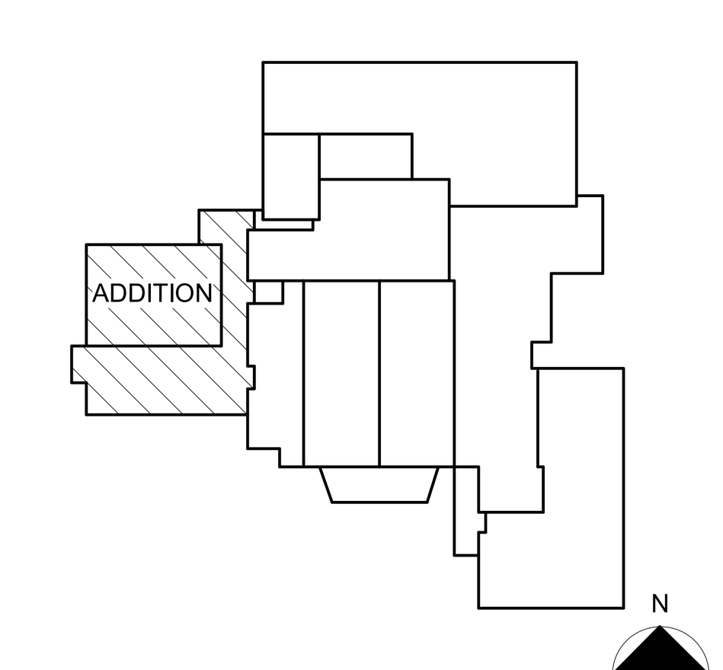
KEY PLAN



SCALE: NTS

BG# 19-262

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

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FIRE PROTECTION PLAN

DATE ISSUED:
9/13/19

REVISIONS

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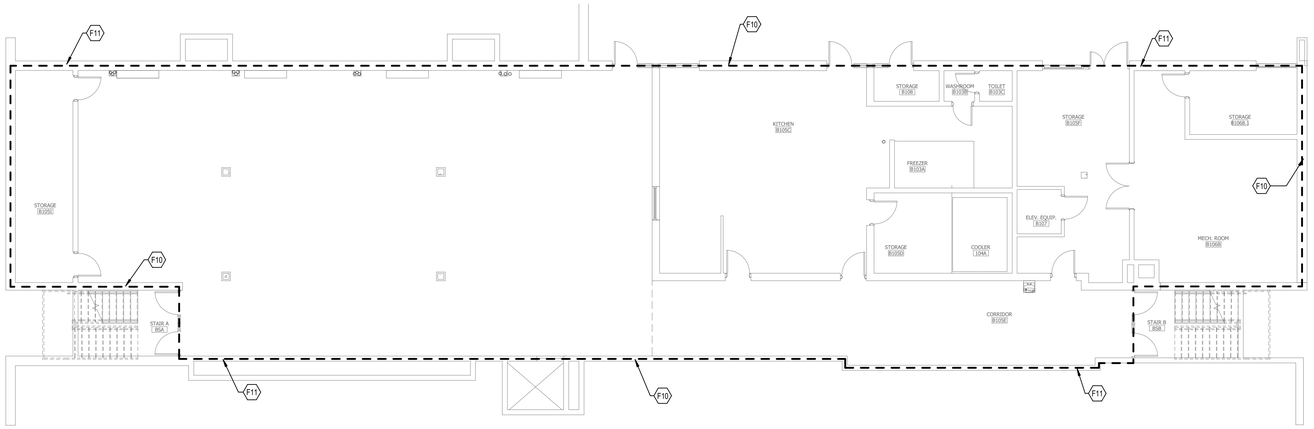
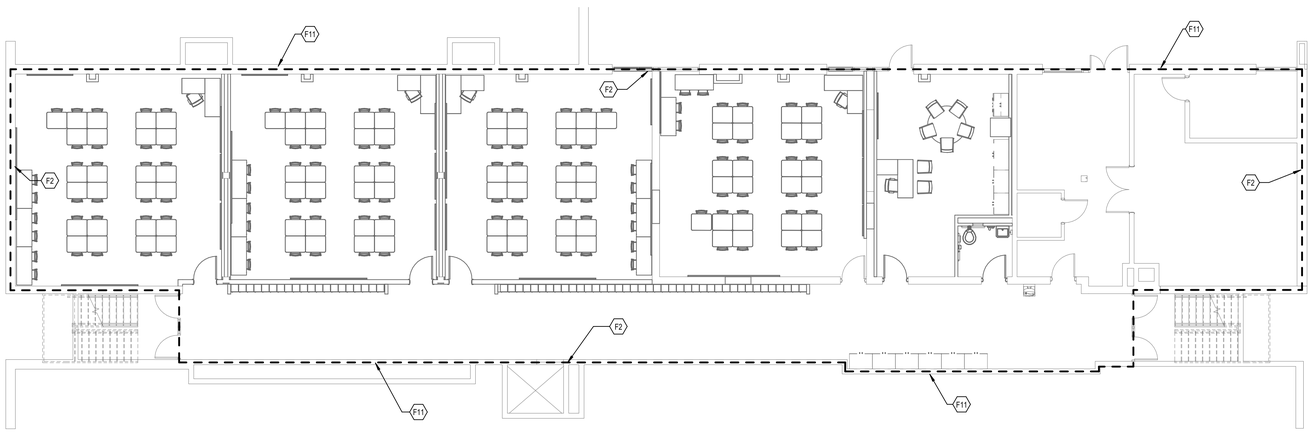
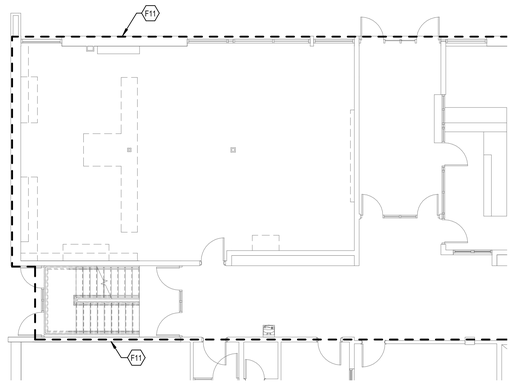


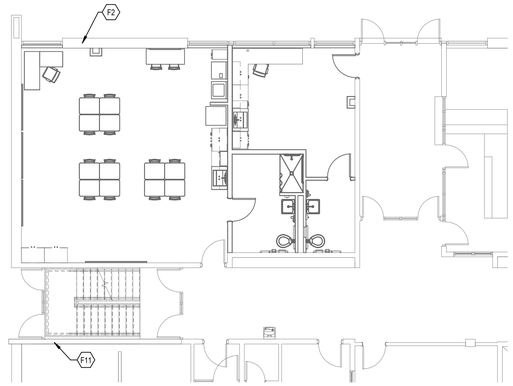
BASEMENT ALTERNATE#1 FIRE PROTECTION DEMOLITION PLAN
1/8" = 1'-0"
3 FP2.1



BASEMENT ALTERNATE#1 FIRE PROTECTION PLAN
1/8" = 1'-0"
4 FP2.1



LEVEL 1 ALTERNATE #2 FIRE PROTECTION DEMOLITION PLAN
1/8" = 1'-0"
1 FP2.1

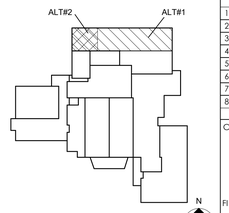


LEVEL 1 ALTERNATE#2 FIRE PROTECTION PLAN
1/8" = 1'-0"
5 FP2.1

TAGGED NOTES

F2	THE ENTIRE OUTLINED AREA SHALL BE PROTECTED WITH A 100% WET TYPE SPRINKLER SYSTEM AT ALL TIMES. THE SPRINKLER SYSTEM SHALL BE REWORKED TO PROVIDE THIS COVERAGE FOR THE NEW ARCHITECTURAL LAYOUT.
F10	EXISTING FIRE PROTECTION MAINS AND BRANCH LINE THAT CANNOT BE REUSED SHALLED BE CAPPED.
F11	THE FIRE PROTECTION SYSTEM IN THE OUTLINED AREA SHALL BE REWORKED, EXISTING F.P. MAINS, BRANCH LINES AND SPRINKLER HEAD SHALL BE REUSED WHERE POSSIBLE.

KEY PLAN



SCALE: NTS

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FIRE PROTECTION ALTERNATES #1 & #2
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FOR:
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BG# 19-262

Project No:	1904
Drawn By:	Author
Rev'd By:	Checker

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CONSTRUCTION DOCUMENTS

FP2.1

FIRE PROTECTION ALTERNATES #1 & #2
DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CW	HW	VENT	WASTE	VOLTAGE
FD-1	FLOOR DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 4" DRAIN OUTLET AND TRAP PRIMER CONNECTION.	-	-	2"	4"	No
FD-2	FLOOR DRAIN - 12" X 12" : ZURN, ZN-610 OR EQUAL, FLOOR DRAIN WITH 12"X12" LOCKING GRATE, SECONDARY STRAINER, SEDIMENT BUCKET AND GALVANIZED CAST IRON CONSTRUCTION WITH TRAP PRIMER CONNECTION; NICKEL BRONZE STRAINER; 4" DRAIN OUTLET.	-	-	2"	4"	Yes
FD-3	FLOOR DRAIN -FUNNEL : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH TYPE "E" STRAINER, WITH COMBINATION FUNNEL GRATE WITH PERIMETER OPENINGS, STRAINER SHALL BE NICKEL BRONZE. 4" DRAIN OUTLET.					Yes
FD-4	FLOOR DRAIN WITH 3/4" GRATE : ZURN, ZN-1901 OR EQUAL, 12"X12"X8" DEEP CAST IRON BODY SANI FLOOR RECEPTOR, WITH SQUARE SLOTTED LIGHT-DUTY 3/4" GRATE WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER. PROVIDE WITH 4" OUTLET AND NICKEL BRONZE FRAME. THE 1" VOID BETWEEN THE TOP OF THE FLOOR SINK AND THE FINISHED FLOOR SHALL BE FILLED WITH A NON-SHRINKING GROUT AND GROUT SHALL BE PAINTED TO MATCH THE FLOOR.	-	-	2"	4"	Yes
FPWH-1	FREEZE-PROOF WALL HYDRANT - CAN WASH : ZURN Z1325 OR EQUAL WALL HYDRANT, ENCASED, COMBINATION HOT/COLD WATER, NON-FREEZE. ALL BRONZE INTERIOR PARTS, 3/4" HOSE CONNECTION AND NICKEL BRONZE BOX AND HINGED COVER WITH OPERATION KEY LOCK AND "WATER" CAST ON COVER. MOUNT HYDRANT AT A MINIMUM OF 20" ABOVE FINISHED GRADE. REFER TO MECHANICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.	3/4"	3/4"	-	-	Yes
P-1	WATER CLOSET ZURN Z5645-BWL - FLOOR MOUNTED - BATTERY SENSOR FLUSH VALVE : VITREOUS CHINA, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH ZURN A BATTERY POWERED, SIDE MOUNT SENSOR OPERATED 1.6 GPF FLUSH VALVE WITH OVERRIDE BUTTON AND CHROME PLATED HOUSING.	1-1/2"	-	2"	4"	No
P-1A	WATER CLOSET - WALL HUNG - BATTERY SENSOR FLUSH VALVE - ADA COMPLIANT : VITREOUS CHINA, WALL HUNG ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH A BATTERY POWERED, SIDE MOUNT SENSOR OPERATED 1.6 GPF FLUSH VALVE WITH OVERRIDE BUTTON AND CHROME PLATED HOUSING. PROVIDE WALL CARRIER. MOUNTED WITH RIM OF BOWL AT 18" AFF. FLUSH VALVE HANDLE SHALL BE A MAXIMUM OF 31" AFF.	1-1/2"	-	2"	4"	Yes
P-2	LAVATORY ZURN Z5340 - WALL HUNG W/ SINGLE LEVER FAUCET ZURN Z7440-XL-BA : VITREOUS CHINA, 20"X18" WALL HUNG LAVATORY WITH 4" FAUCET CENTERS, CONCEALED ARMS AND 4" HIGH BACKSPLASH. PROVIDE WITH A LOW FLOW SINGLE LEVER FAUCET, CHROME PLATED 3/8" SUPPLIES WITH STOPS, GRID DRAIN, A KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE APRON AND THE RIM AT A MAXIMUM OF 34" AFF.	1/2"	1/2"	2"	2" No	
P-2A	2 STATION LAVATORY SYSTEM : BRADLEY MODEL SS-2IRWH OR EQUAL TWO STATION LAVATORY SYSTEM, WALL HUNG WITH RIM AT 31" AFF, WITH SOLID SURFACE TERREON MATERIAL WITH INFRARED SENSOR SOLENOID VALVE AND LOW VOLTAGE TRANSFORMER. PROVIDE WITH THERMOSTATIC MIXING. NO HAND SOAP DISPENSER.	1/2"	1/2"	2"	2"	
P-3	MOP BASIN : 24"X24"X10" HIGH MOLDED STONE MOP SERVICE BASIN, IN WHITE DRIFT COLOR, 3" DRAIN, SERVICE FAUCET, HOSE AND HOSE BRACKET, VINYL BUMPERGUARD AND STAINLESS STEEL WALL GUARDS. THE DRAIN SHALL BE LOCATED 12" TO THE CENTER. PROVIDE A CHECK VALVE IN THE HOT AND COLD WATER SUPPLIES.	3/4"	3/4"	2"	3"	No
P-4	DRINKING FOUNTAIN WITH BOTTLE FILLER - ADA COMPLIANT - ELKAY MODEL LMABFTL8WSLK, VANDAL RESISTANT, FILTERED 8 GPH LIGHT GRAY, MECHANICALLY ACTIVATED, HANDS FREE, VISUAL FILTER MONITOR, MECHANICAL FRONT AND SIDE BUBBLER PSHBAR ACTIVATION, WALL MOUNTED CARRIER. PROVIDE WITH ELKAY MODEL LZWSRK RETROFIT BOTTLE FILLER STATION KIT, FILTERED NON-REFRIGERATED. REFER TO ARCHIECHTURAL PLANS FOR MOUNTING HEIGHTS. PROVIDE WITH CANE APRON.	1/2"	-	2"	2"	Yes
P-6	SHOWER, ZURN Z7101-SS-LH-DV2P-HW- ADA COMPLIANT : PROVIDE A PRESSURE BALANCING MIXING VALVE WITH COMBINATION INTEGRAL DIVERTER AND VOLUME CONTROL, ADJUSTABLE SCREW TO LIMIT MAXIMUM FLOW RATE, SHOWER HEAD WITH ARM AND FLANGE, AND A WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE AND 30" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE ZURN ZN-415 OR EQUAL FLOOR DRAIN WITH TYPE "B" STRAINER	3/4"	3/4"	2"	2"	Yes
P-7	WASHER BOX - RECESSED 20 GAUGE METAL WASHER BOX WITH 1/2" HW AND CW BOTTOM HOSE CONNECTIONS AND 2" DRAIN. PROVIDE WITH WATER HAMMER ARRESTORS IN WATER SUPPLY LINES.	3/4"	3/4"	2"	2"	Yes
P-8	SINGLE COMPARTMENT SINK ADA : SINGLE COMPARTMENT STAINLESS STEEL SINK, 19"X21" O.D., 14"X18" I.D., 41/2" DEEP, 18 GAUGE, WITH 8" CENTERS. PROVIDE WITH 8" RIGID SPOUT GOOSENECK FAUCET WITH LEVER HANDLE FOR CONTROL, HANDLES, REAR CENTERED CRUMB CUP STRAINER DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS.	1/2	1/2"	2"	2"	Yes
RD-1	ROOF DRAIN - COMBINATION DRAIN : WATTS DRAINAGE RD-700 EPOXY COATED CAST IRON DUAL OUTLET ROOF DRAIN/OVERFLOW COMBINATION WITH FLASHING CLAMP, INTEGRAL GRAVEL STOP, 4" HIGH INTERNAL OVERFLOW STANDPIPE, SECURED DUCTILE IRON DOME AND NO HUB OUTLETS. PROVIDE WITH DECK CLAMP, EXTENSION OR ANY OTHER ACCESSORIES NEEDED FOR INSTALLATION IN ROOF SPECIFIED BY ARCHITECT AND AS RECOMMENDED BY THE ROOF MANUFACTURER.	-	-	-	4"	Yes
TP-1	TRAP PRIMER TYPE-1 : PRECISIONS PLUMBING PRODUCTS PRIME-TIME OR EQUAL ELECTRONIC TRAP PRIMING MANIFOLD, WITH ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR CLOCK, MANUAL OVERRIDE SWITCH, 120 VOLT SOLENOID VALVE WITH 120V/3WIRE CONNECTION. PROVIDE IN 12" X 12" X 4" SURFACE MOUNTED METAL CABINET. PROVIDE WITH 10 OPENING MANIFOLD, UN-USED MANIFOLD OPENING SHALL BE CAPPED. INSTALL UNITED AS REQUIRED BY MANUFACTURER.	-	-	-	-	Yes

WATER FOUNTAIN/FILL STATION CALCULATIONS

TOTAL WATER FOUNTAINS/FILL STATIONS: 13

TOTAL BUILDING OCCUPANTS: 550 PEOPLE

CALCULATED OCCUPANT CAPACITY: 13 FOUNTAINS X 75 PEOPLE/FOUNTAIN = 975 PEOPLE

NOTE: REFER TO PLUMBING FIXTURE SCHEDULE AND DRAWINGS.

PLUMBING DEMOLITION NOTES:

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.
B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

HAZARDOUS MATERIAL NOTE:

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PLUMBING GENERAL NOTES:

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
M. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
N. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
O. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
P. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
Q. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
R. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
S. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
T. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
U. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
V. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
W. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
X. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
Y. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
Z. THE DOCUMENTS COMPLY WITH 2015 IMC, 2018 KBC, AND 2012 IECC.
AA. THE DOCUMENTS COMPLY WITH 2015 IMC, 2018 KBC, AND ASHRAE 90.1-2010.

PHASING NOTE:

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

SYMBOLS & ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR		POINT OF CONNECTION
CW	DOMESTIC COLD WATER		LIMIT OF DEMOLITION
DN	DOWN		PIPE ELBOW TURNING UP/TURNING DOWN
FHV	FIRE HOSE VALVE WITH CABINET		PIPE TEE TURNING UP/TURNING DOWN
FPWH	FREEZE PROOF WALL HYDRANT	CA	COMPRESSED AIR
HB	HOSE BIBB	FM	FORCED MAIN
HW	DOMESTIC HOT WATER	FP	FIRE PROTECTION LINE
ID	INSIDE DIMENSION	G	GAS LINE
IE	INVERT ELEVATION	GW	SANITARY WASTE PIPING TO GREASE TRAP
MH	MANHOLE	ORL	OVERFLOW ROOF LEADER PIPING
NTS	NOT TO SCALE	RL	ROOF LEADER PIPING
NIC	NOT IN CONTRACT	SAN	SANITARY WASTE PIPING
NO	NORMALLY OPEN	SS	STORM SEWER PIPING
NC	NORMALLY CLOSED	V	VACUUM PIPING
OR	OPEN RECEPTACLE	VT	VENT PIPING
ORL	OVERFLOW ROOF LEADER	E(NAME)	EXISTING PIPING (THIN LINE)
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)	ABAN(NAME)	ABANDONED EXISTING PIPING (THIN LINE)
RHW	DOMESTIC RECIRCULATING HOT WATER		DOMESTIC COLD WATER PIPING
RL	ROOF LEADER		DOMESTIC HOT WATER SUPPLY
SR	SANITARY RISER		DOMESTIC RECIRCULATING HOT WATER
TB	THRUST BLOCK	CO	CLEANOUT IN CEILING SPACE
TE	TOP ELEVATION	CO	FLOOR CLEANOUT
TP	TRAP PRIMER		EXTERIOR CLEANOUT
TYP	TYPICAL	ECO	BALANCING VALVE
VTR	VENT THRU ROOF		BALL VALVE
			SAFETY RELIEF VALVE
			SAFETY RELIEF VALVE
			OS&Y (GATE) VALVE
			PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
			STRAINER
			CHECK VALVE
			DOUBLE CHECK VALVE ASSEMBLY
			PIPING UNION
		F	FLOW SWITCH
		P	PRESSURE SWTICH
		T	TAMPER SWITCH
			THERMOMETER
		V	VACUUM BREAKER
			LIMITED AREA SPRINKLER HEAD
			PETE'S PLUG
		FD-#	FLOOR DRAIN DESIGNATOR
		RD-#	ROOF DRAIN DESIGNATOR
		P-#	PLUMBING FIXTURE DESIGNATOR
		XXX / X	EQUIPMENT TAG DESIGNATOR
		X	TAGGED NOTE DESIGNATOR
		X	REVISION DESIGNATOR
		X S	TEMPERATURE SENSOR
			HOSE BIB

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PLUMBING LEGEND

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR:

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BG# 19-262

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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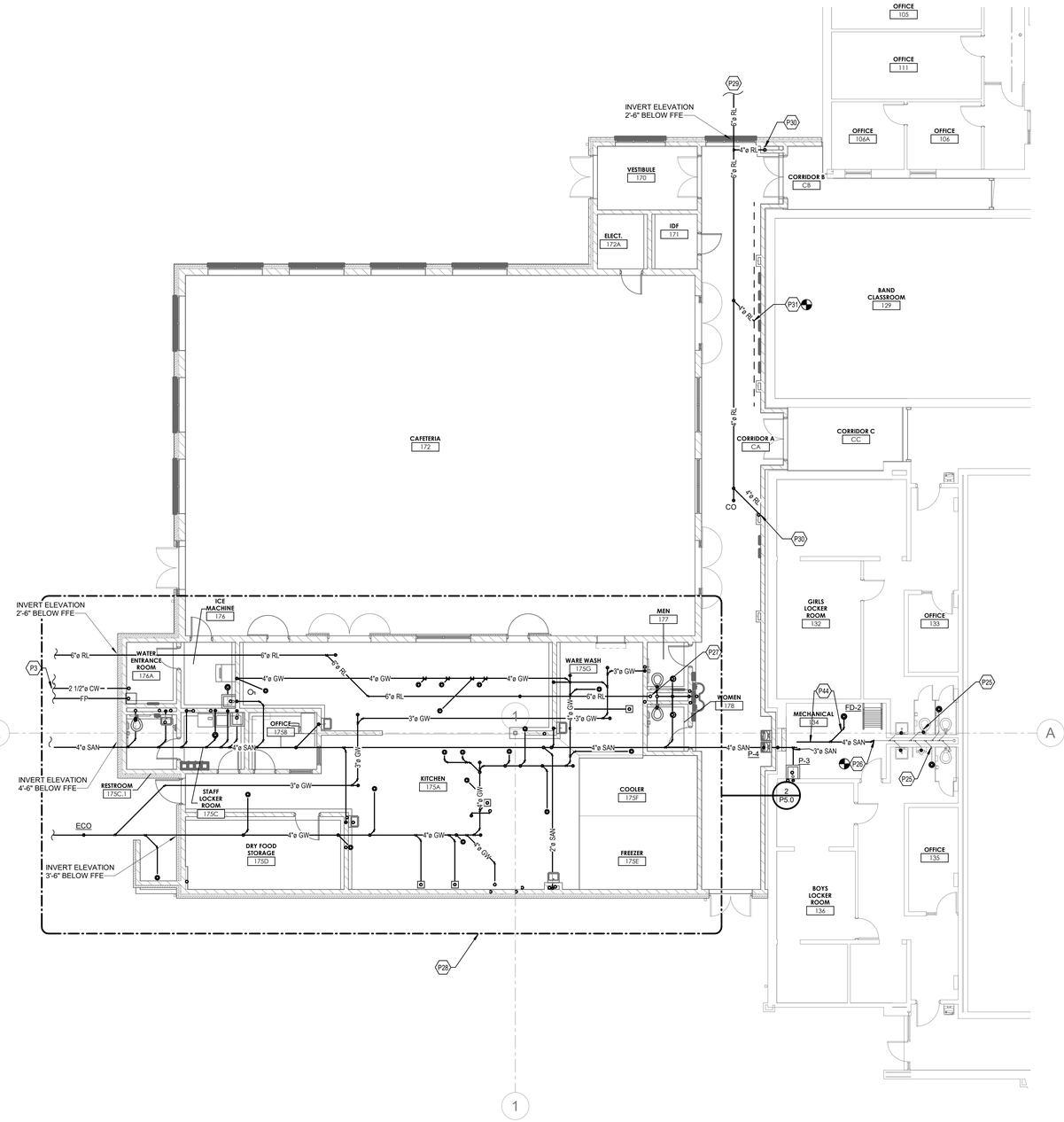

LEVEL 1 UNDERSLAB PLUMBING PLAN
1/8" = 1'-0"

1
P2.0

PLUMBING GENERAL NOTES UNDERSLAB

- REFER TO STRUCTURAL DRAWINGS FOR REQUIRMENTS OF UNDERSLAB PIPING ROUTED NEAR FOOTER SYSTEM ZONE OF INFLUENCE. PIPING SHALL BE UNSTALLED IN A MANNER WHICH DOES NOT UNDERMINE FOOTINGS.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING UNSTALLATION OF UNDERSLAB SANITARY, ROOF LEADERS, GREASE WASTE, WITH THE BUILDING FOOTINGS. REFER TO STRUCTURAL DRAWINGS FOR FOOTING AND FOUNDATION PLAN.

TAGGED NOTES

P3	2-1/2" DOMESTIC WATER. REFER TO PLUMBING SITE PLAN FOR CONTINUATION.
P25	EXISTING PLUMBING FIXTURES AND PIPING SHALL REMAIN.
P26	CONNECT TO EXISTING SANITARY FIELD. VERIFY EXACT LOCATION AND DEPTH.
P27	6" ROOF LEADER UP REFER TO SHT. P2.1
P28	REFER TO ENLARGED UNDERSLAB PLAN SHT. P5.0
P29	REFER TO SITE PLAN FOR CONTINUATION. SHEET UM2.0
P30	4" ROOF LEADER UP. REFER TO SHT. P2.1
P31	CONNECT TO EXISTING ROOF LEADER/STORM DRAIN.
P44	SAW CUT EXISTING FLOOR SLAB TO INSTALL NEW PLUMBING FIXTURES AND SANITARY PIPING. REPLACE CONCRETE SLAB TO MATCH EXISTING.

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PLUMBING UNDERSLAB PLAN
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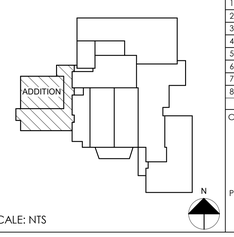
KEY PLAN



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Project No:	1904
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Rev'd By:	KE

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PLUMBING UNDERSLAB PLAN

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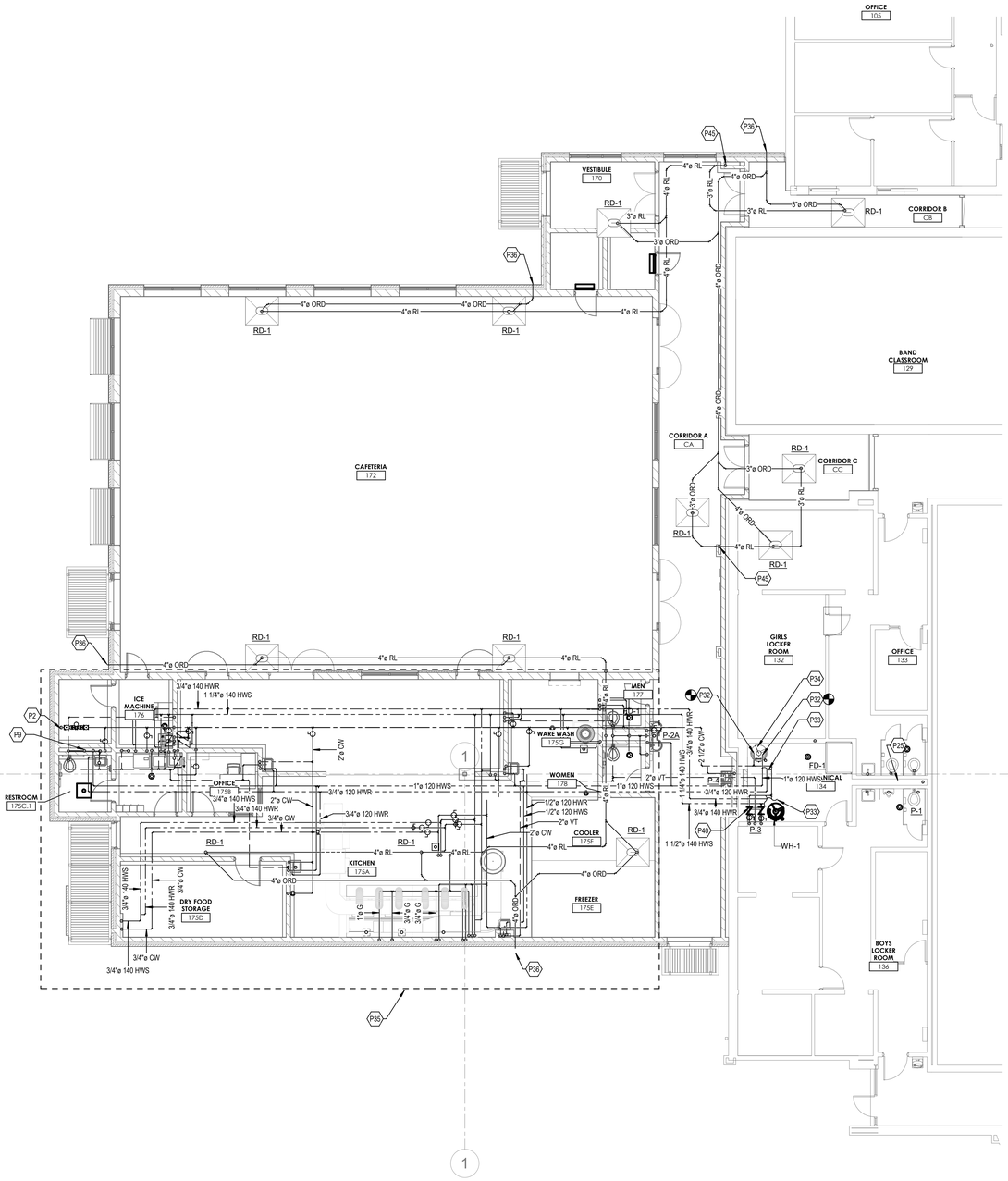
TAGGED NOTES

P2	DOMESTIC WATER ENTRANCE DOWN BELOW GRADE REFER TO UNDERSLAB PLUMBING PLAN.
P9	4" VENT UP TO 4" VTR.
P25	EXISTING PLUMBING FIXTURES AND PIPING SHALL REMAIN.
P32	CONNECT TO EXISTING WATER HEATER.
P33	REFER TO WATER HEATER DETAIL SHEET P7.1
P34	EXISTING WATER HEATER TO REMAIN. REFER TO DETAIL SHEET P7.1
P35	REFER TO ENLARGED KITCHEN PLAN SHEET P5.0
P36	PROVIDE ZURN MODEL Z199 DOWNSPOUT NOZZLE WITH MATCHING PIPE CONNECTION SIZE. PROVIDE WITH STAINLESS STEEL SCREEN. LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATION PLAN.
P40	INSTALL CHECK VALVES ON WATER LINE SERVING MOP BASINS AND SHOWER.
P45	4" ROOF LEADER DOWN



FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

2
P2.1

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PLUMBING PLAN

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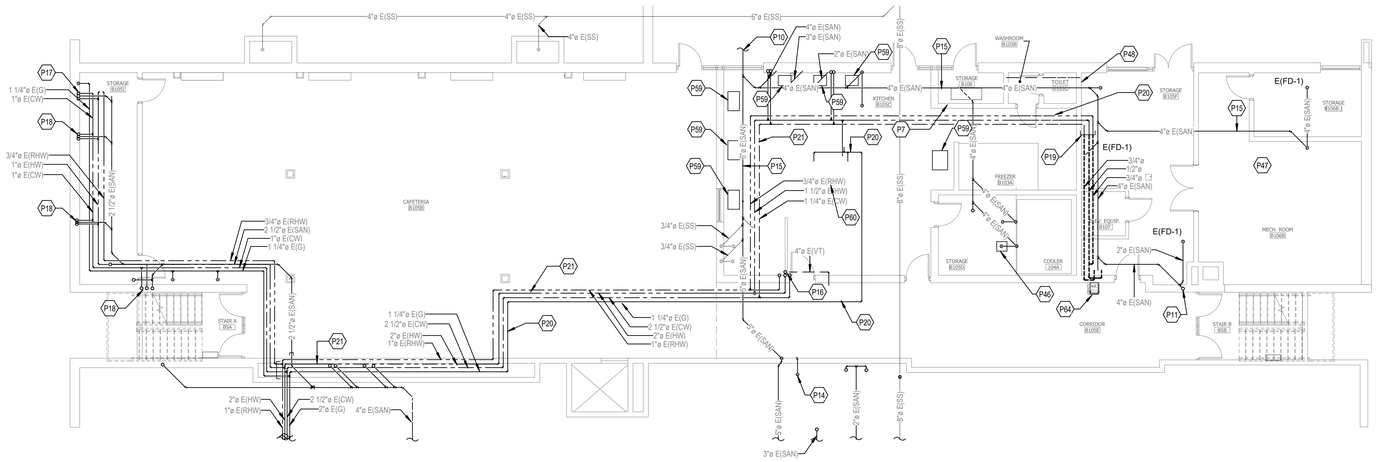
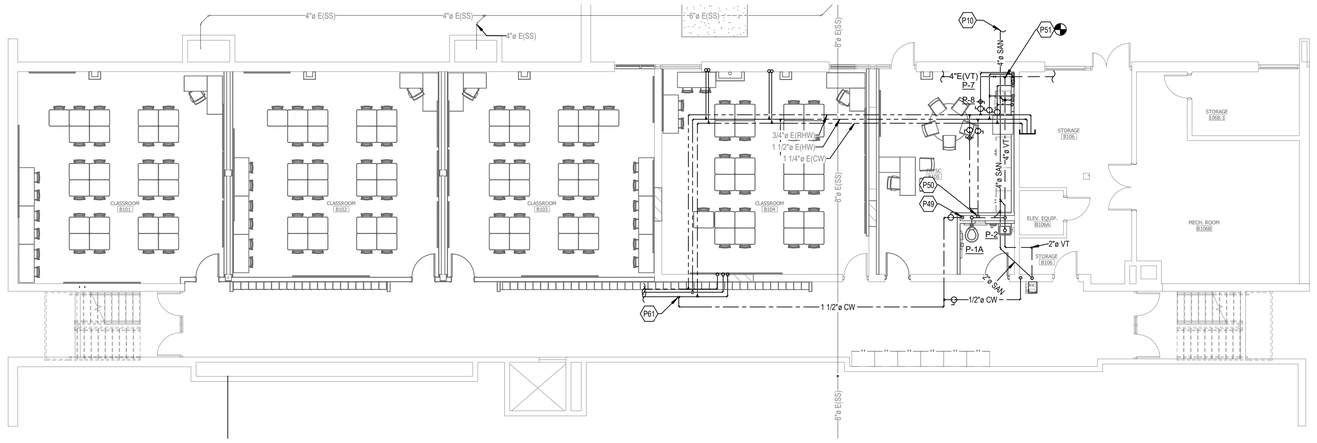
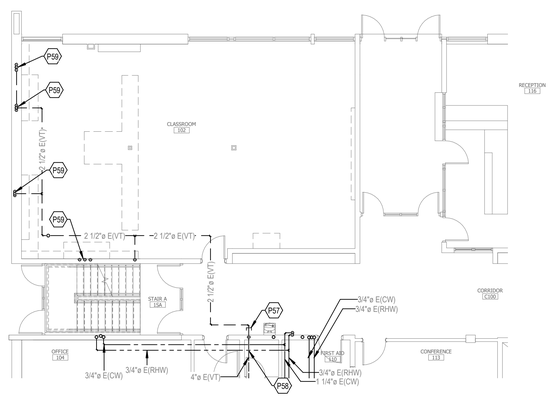


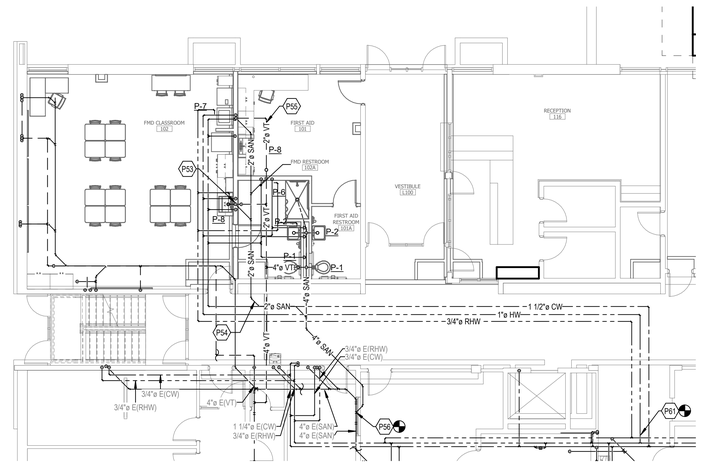
ALT#1 BASEMENT PLUMBING DEMOLITION PLAN
1/8" = 1'-0"
2 P3.1



ALT#1 BASEMENT PLUMBING PLAN
1/8" = 1'-0"
3 P3.1



ALTERNATE #2 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"
4 P3.1

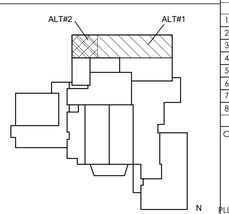


ALTERNATE#2 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"
5 P3.1

TAGGED NOTES

#	
P7	REMOVE EXISTING DOMESTIC WATER LINE AND CAP BACK AT MAIN. CAP EXISTING SANITARY LINES BELOW SLAB. REPLACE EXISTING FLOOR SLAB TO MATCH EXISTING.
P10	REFER TO SITE UTILITY PLAN SHEET UM2.0 FOR CONTINUATION.
P11	EXISTING 2" VENT PIPING UP.
P14	EXISTING 5" SANITARY PIPING UP.
P15	ALL SANITARY PIPING IN ALT#1 BASEMENT PLUMBING DEMOLITION PLAN IS UNDER SLAB.
P16	EXISTING 2" DOMESTIC COLD WATER, 1-1/2" DOMESTIC HOT WATER, 3/4" HOT WATER RECIRC, AND 4" VENT PIPING UP SHALL REMAIN.
P17	EXISTING 3/4" DOMESTIC COLD WATER, 3/4" DOMESTIC HOT WATER, AND 1-1/2" SANITARY PIPING UP TO FIXTURE ON LEVEL ABOVE.
P18	EXISTING 1/2" DOMESTIC COLD WATER, 1/2" DOMESTIC HOT WATER, AND 1-1/2" SANITARY PIPING UP TO FIXTURE ON LEVEL ABOVE.
P19	CAP EXISTING DOMESTIC WATER LINES AND REMOVE BEYOND THIS POINT.
P20	EXISTING GAS LINE SHALL BE CAPPED BACK AT MAIN AND REMOVED.
P21	EXISTING DOMESTIC WATER LINES SHALL REMAIN.
P46	REMOVE ALL EXISTING FLOOR DRAINS AND FLOOR SINKS. SAW CUT EXISTING FLOOR SLAB AND CAP EXISTING SANITARY PIPE. REPAIR FLOOR SLAB TO MATCH EXISTING.
P47	NO WORK IN THIS AREA.
P48	EXIST. VENT PIPING SHALL REMAIN.
P49	1 1/2" CW DOWN IN CHASE. CONNECT TO PLUMB FIXTURES PER FIXTURE SCHEDULE.
P50	1/2" HW DOWN IN CHASE.
P51	CONNECT TO EXISTING VENT SERVING REMOVED WATER CLOSET PIPE. FIELD VERIFY EXACT LOCATION.
P53	PROVIDE THIS SINK WITH DISHWASHER CONNECTION AND VENT.
P54	SANITARY PIPING IS BELOW FIRST FLOOR SLAB AND ABOVE BASEMENT CEILING.
P55	VENT PIPE IS ABOVE FIRST FLOOR CEILING.
P56	CONNECT TO EXISTING 4" SANITARY ABOVE BASEMENT CEILING.
P57	CAP EXISTING VENT PIPING AND REMOVE.
P58	EXISTING VENT PIPING SHALL REMAIN.
P59	REMOVE ALL EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING. FIELD VERIFY EXACT LOCATION.
P60	EXISTING GREASE WASTE SHALL BE CAPPED BELOW FLOOR SLAB. SAW CUT EXISTING SLAB AND REPAIR TO MATCH EXISTING.
P61	CONNECT TO EXISTING WATER LINES. FIELD VERIFY EXACT LOCATION.
P64	EXISTING WATER FOUNTAIN TO REMAIN.

KEY PLAN



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PLUMBING ALTERNATES #1 & #2
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Project No:	1904
Drawn By:	Author
Rev'd By:	Checker

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PLUMBING ALTERNATES #1 & #2

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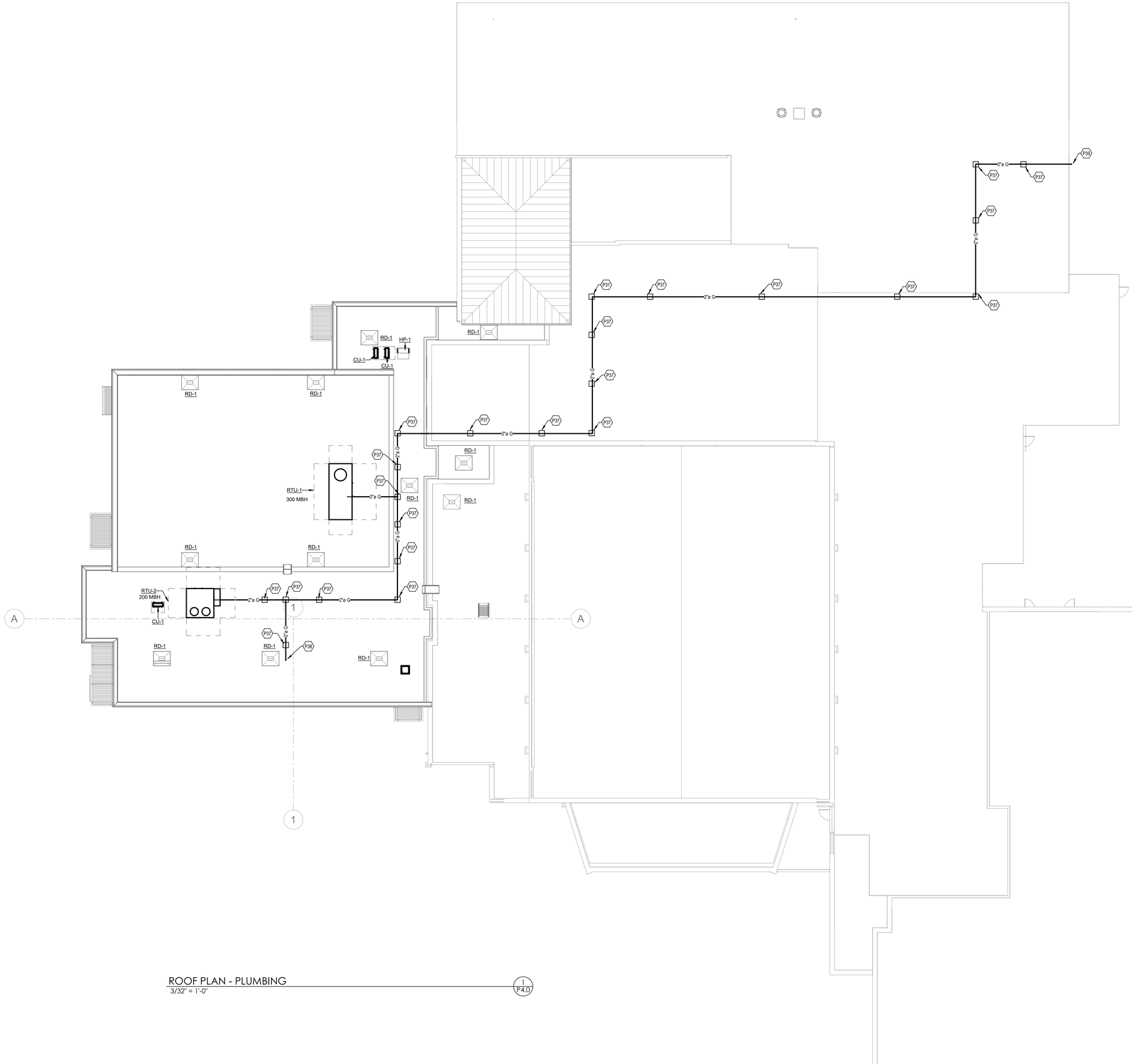
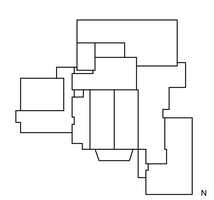


ROOF PLAN - PLUMBING
3/32" = 1'-0"
1 P4.0

TAGGED NOTES

P37	GAS LINE ROOF SUPPORT. SEE DETAIL SHT. P7.1
P38	1 1/2" GAS DOWN. REFER TO SHT. P5.0
P39	2" GAS LINE DOWN TO EXISTING METER/REGULATOR. CONNECT TO EXISTING GAS LINE AFTER REGULATOR. CONTACT ATMOS ENERGY BEFORE CONNECTION IS MADE.

KEY PLAN



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ROOF PLAN - PLUMBING

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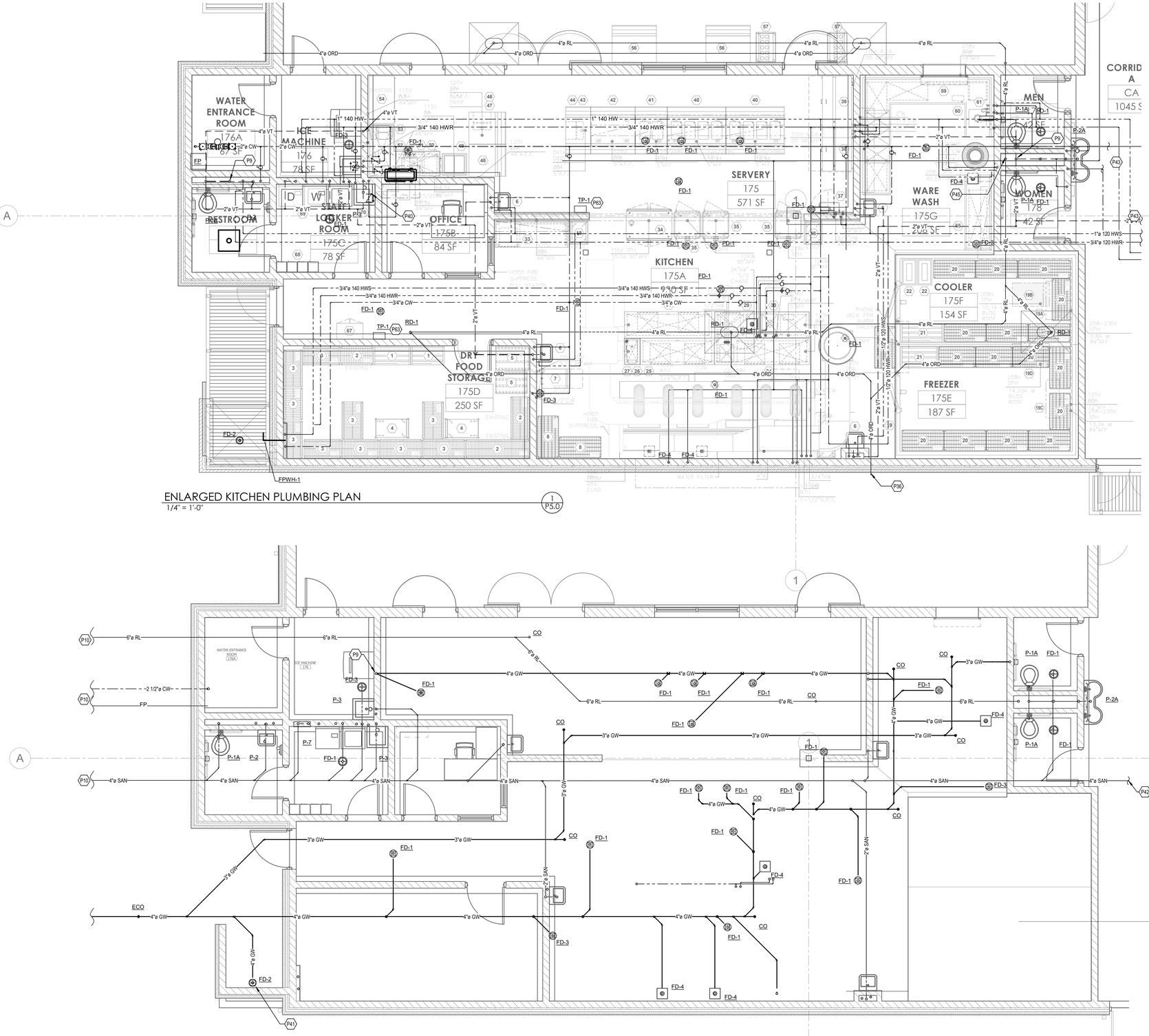

ENLARGED KITCHEN PLUMBING PLAN
1/4" = 1'-0"
1 / P5.0

ENLARGED KITCHEN UNDERSLAB PLUMBING PLAN
1/4" = 1'-0"
2 / P5.0

PLUMBING GENERAL NOTES UNDERSLAB

- REFER TO STRUCTURAL DRAWINGS FOR REQUIRMENTS OF UNDERSLAB PIPING ROUTED NEAR FOOTER SYSTEM ZONE OF INFLUENCE. PIPING SHALL BE UNSTALLED IN A MANNER WHICH DOES NOT UNDERMINE FOOTINGS.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING UNSTALLATION OF UNDERSLAB SANITARY, ROOF LEADERS, GREASE WASTE, WITH THE BUILDING FOOTINGS. REFER TO STRUCTURAL DRAWINGS FOR FOOTING AND FOUNDATION PLAN.

TAGGED NOTES

P9	4" VENT UP TO 4" VTR.
P10	REFER TO SITE UTILITY PLAN SHEET UM2.0 FOR CONTINUATION.
P36	PROVIDE ZURN MODEL Z199 DOWNSPOUT NOZZLE WITH MATCHING PIPE CONNECTION SIZE. PROVIDE WITH STAINLESS STEEL SCREEN. LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATION PLAN.
P40	INSTALL CHECK VALVES ON WATER LINE SERVING MOP BASINS AND SHOWER.
P41	INSTALL CAN WASH DRAIN AT MINIMUM 32" DEEP TO PREVENT FREEZING.
P42	REFER TO SHEET P2.0 FOR CONTINUATION.
P43	REFER TO SHEET P2.1 FOR CONTINUATION.
P45	4" ROOF LEADER DOWN
P63	MOUNT ELECTRONIC TRAP PRIMER ABOVE CEILING INSTALL PIPING IN WALLS

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ENLARGED KITCHEN PLAN - PLUMBING

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ENLARGED KITCHEN PLAN - PLUMBING
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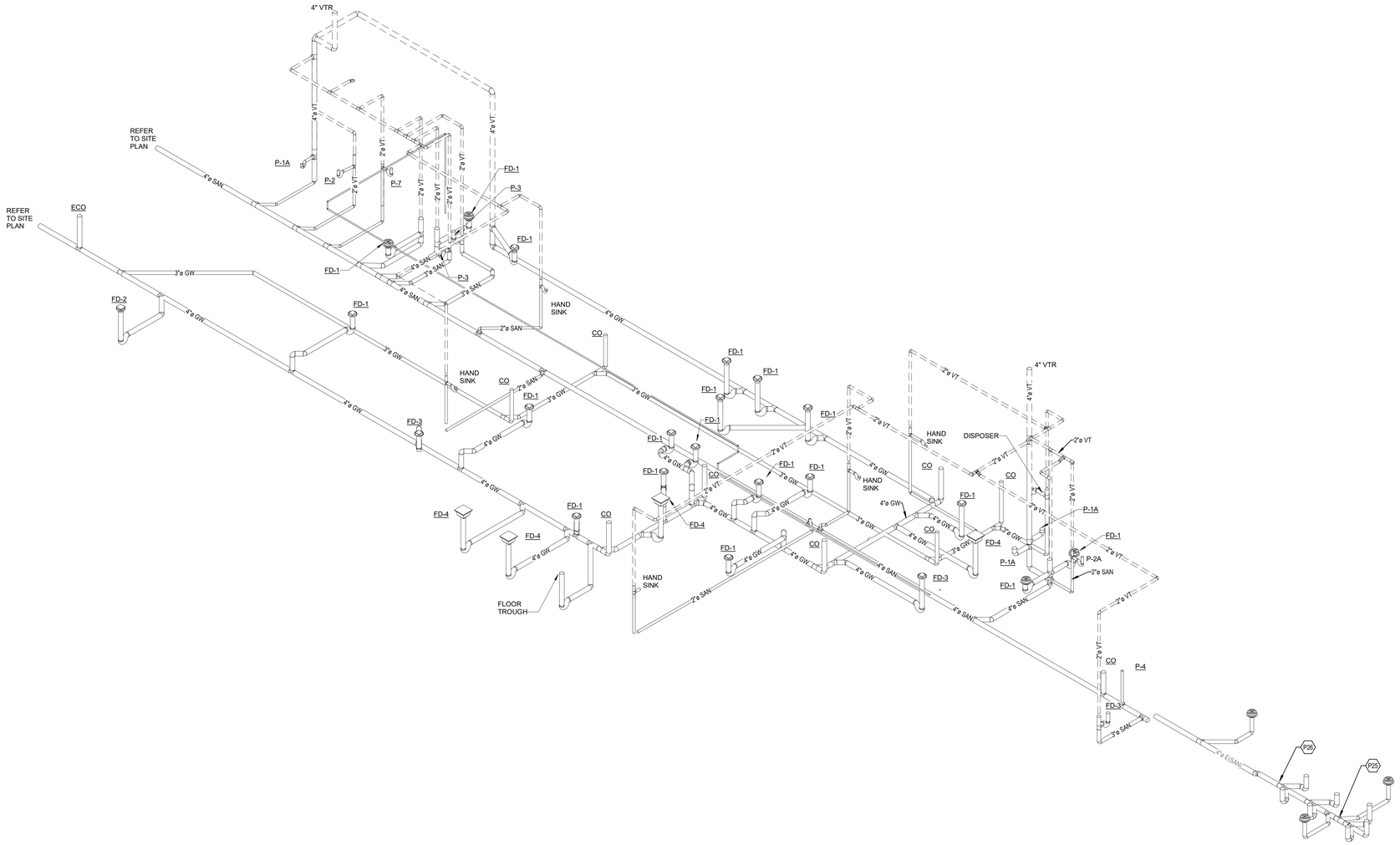

KITCHEN SANITARY SEWER RISER DIAGRAM

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P6.0

TAGGED NOTES

P2 5	EXISTING PLUMBING FIXTURES AND PIPING SHALL REMAIN.
P2 6	CONNECT TO EXISTING SANITARY FIELD. VERIFY EXACT LOCATION AND DEPTH.

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WASTE AND VENT RISER DIAGRAMS

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WASTE AND VENT RISER DIAGRAMS
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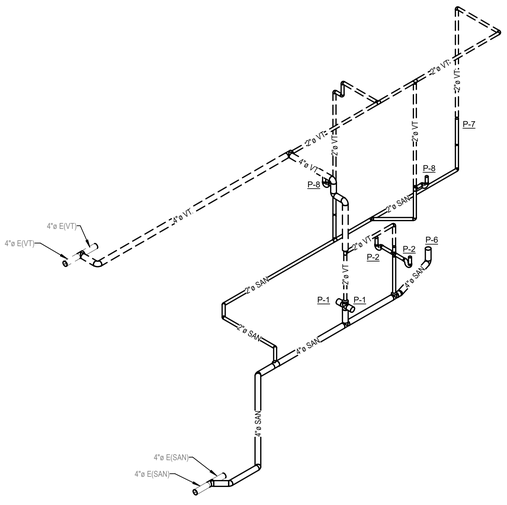

SANITARY SEWER RISER DIAGRAM

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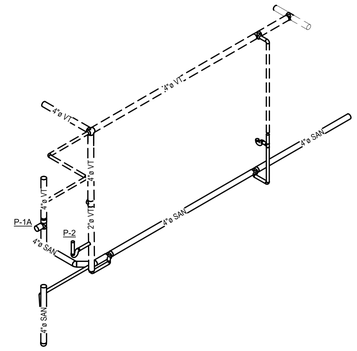

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WASTE AND VENT RISER DIAGRAM

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BG# 19-262

Project No: 1904
Drawn By: CE
Rev'd By: CE

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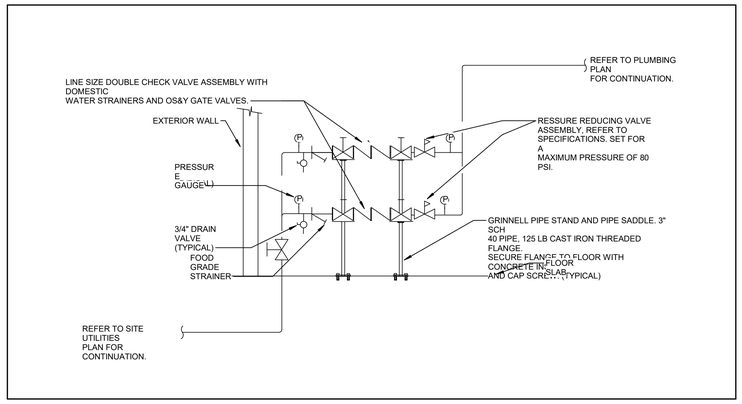
CONSTRUCTION DOCUMENTS

P6.1

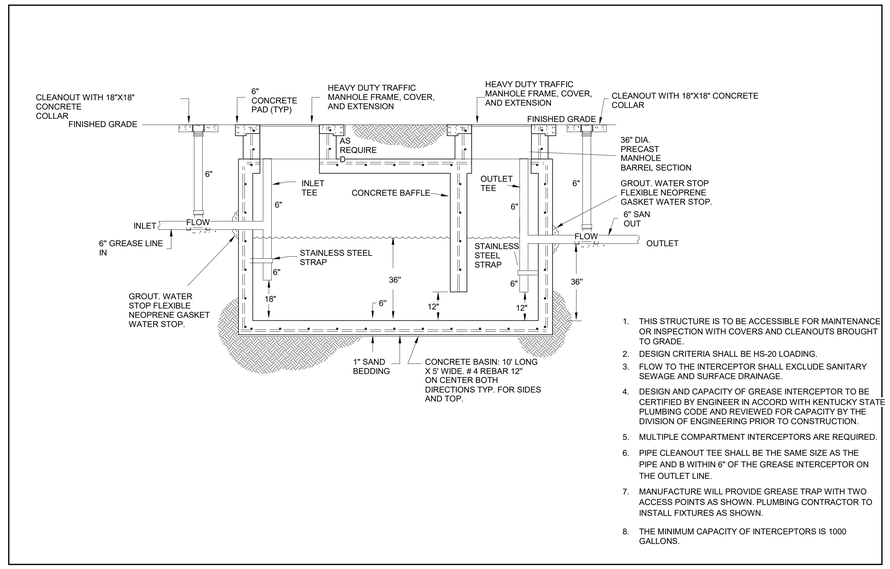
WASTE AND VENT RISER DIAGRAM
DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION

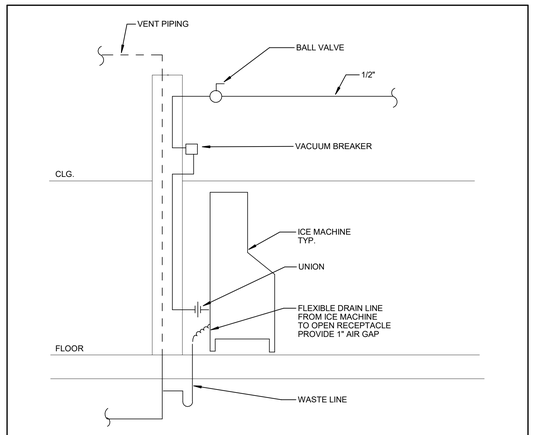


1 DOMESTIC WATER ENTRANCE SCHEMATIC
SCALE: NONE

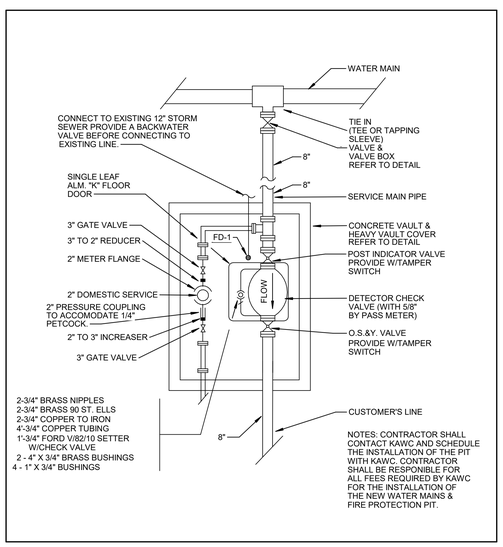


1. THIS STRUCTURE IS TO BE ACCESSIBLE FOR MAINTENANCE OR INSPECTION WITH COVERS AND CLEANOUTS BROUGHT TO GRADE.
2. DESIGN CRITERIA SHALL BE HS-20 LOADING.
3. FLOW TO THE INTERCEPTOR SHALL EXCLUDE SANITARY SEWAGE AND SURFACE DRAINAGE.
4. DESIGN AND CAPACITY OF GREASE INTERCEPTOR TO BE CERTIFIED BY ENGINEER IN ACCORD WITH KENTUCKY STATE PLUMBING CODE AND REVIEWED FOR CAPACITY BY THE DIVISION OF ENGINEERING PRIOR TO CONSTRUCTION.
5. MULTIPLE COMPARTMENT INTERCEPTORS ARE REQUIRED.
6. PIPE CLEANOUT TEE SHALL BE THE SAME SIZE AS THE PIPE AND B WITHIN 6" OF THE GREASE INTERCEPTOR ON THE OUTLET LINE.
7. MANUFACTURE WILL PROVIDE GREASE TRAP WITH TWO ACCESS POINTS AS SHOWN. PLUMBING CONTRACTOR TO INSTALL FIXTURES AS SHOWN.
8. THE MINIMUM CAPACITY OF INTERCEPTORS IS 1000 GALLONS.

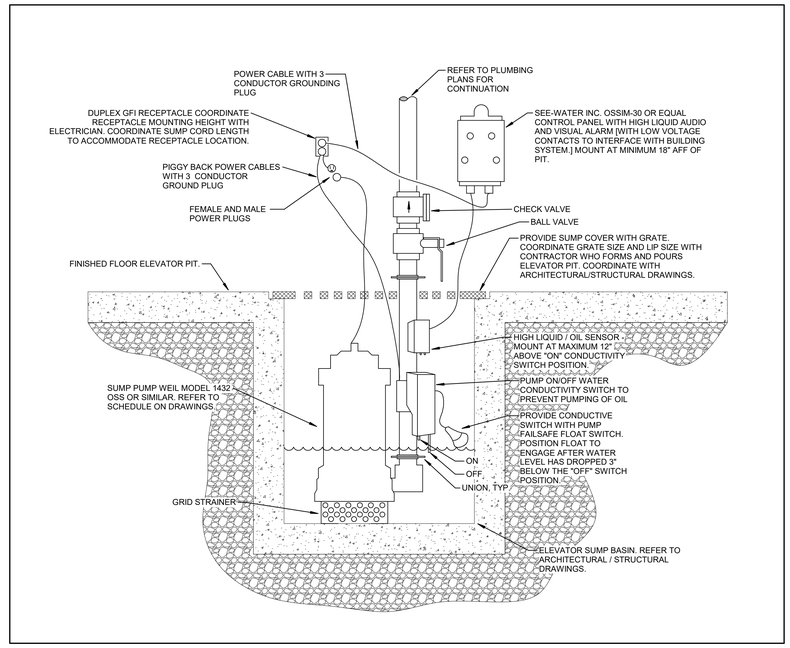
2 1000 GALLON GREASE TRAP DETAIL
SCALE: NONE



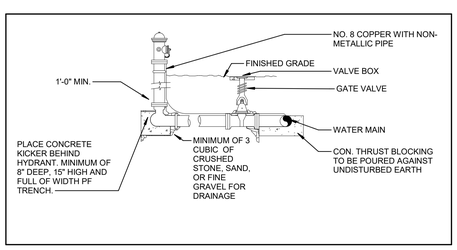
3 ICE MACHINE PIPING SCHEMATIC
SCALE: NONE



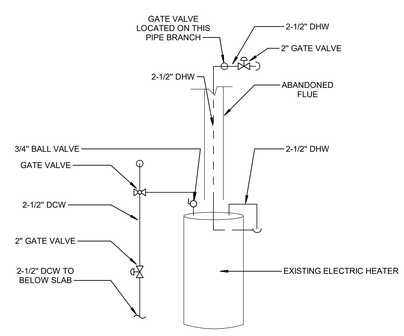
5 FIRE & DOMESTIC WATER VALVE & METER PIT
SCALE: NONE



4 AIR CONTROL VALVE DETAIL
SCALE: NONE



6 FIRE HYDRANT SCHEMATIC
SCALE: NONE



NOT TO SCALE

7 EXISTING ELECTRIC HEATER DETAIL
SCALE: NONE

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BG# 19-262

Project No:	1904
Drawn By:	Author
Rev'd By:	Checker

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CONSTRUCTION DOCUMENTS

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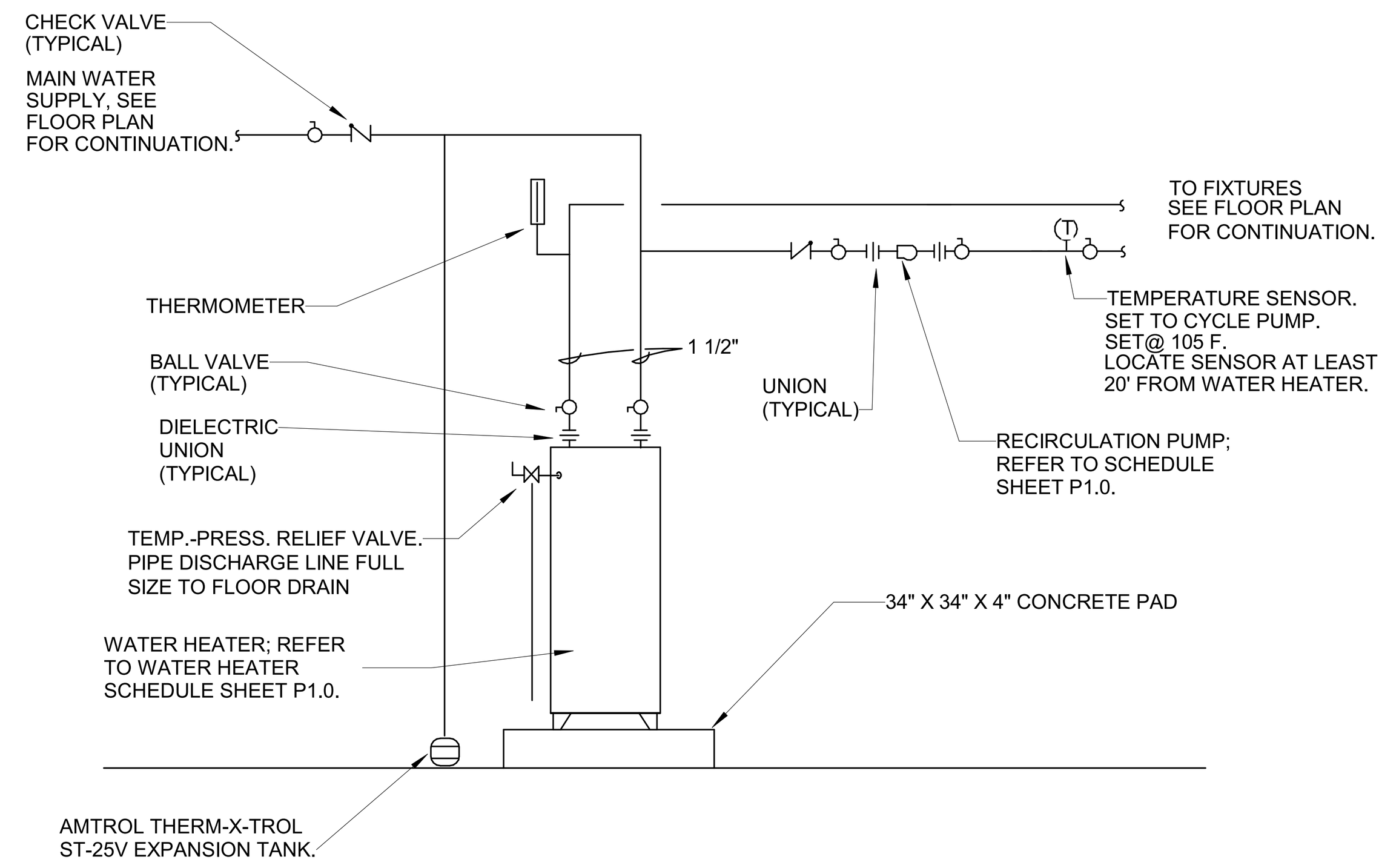


WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	STORAGE (GAL)	RECOVERY @ 100F RISE (GPH)	INPUT (KW)	ELECTRICAL (VOLT/∅)	REMARKS
WH-1	A.O. SMITH	DRE-120-36	KITCHEN 140°F	119	294	36	208/3	1, 2, 3, 4, 5 , 6

REMARKS:

1. SINGLE POINT CONNECTION.
2. ACCEPTABLE MANUFACTURERS INCLUDE LOCHINVAR, BRADFORD WHITE, RHEEM AND STATE.
3. PROVIDE TEMPERATURE AND PRESSURE RELIEF VALVE.
4. WATER HEATER SHALL HAVE LCD DISPLAY WITH BUILT-IN DIANOSTIC AND TROUBLESHOOTING INFORMATION.
5. CONTROL CIRCUIT SHALL BE FACTORY FUSES AND INCLUDE AND IMMERSION THERMISTOR PROBE WITH BUILT-IN ECO CONTROL.
6. ALL PLUMBING EQUIPMENT SHALL COMPLY WITH THE LATES PROVISIONS OF KBC.

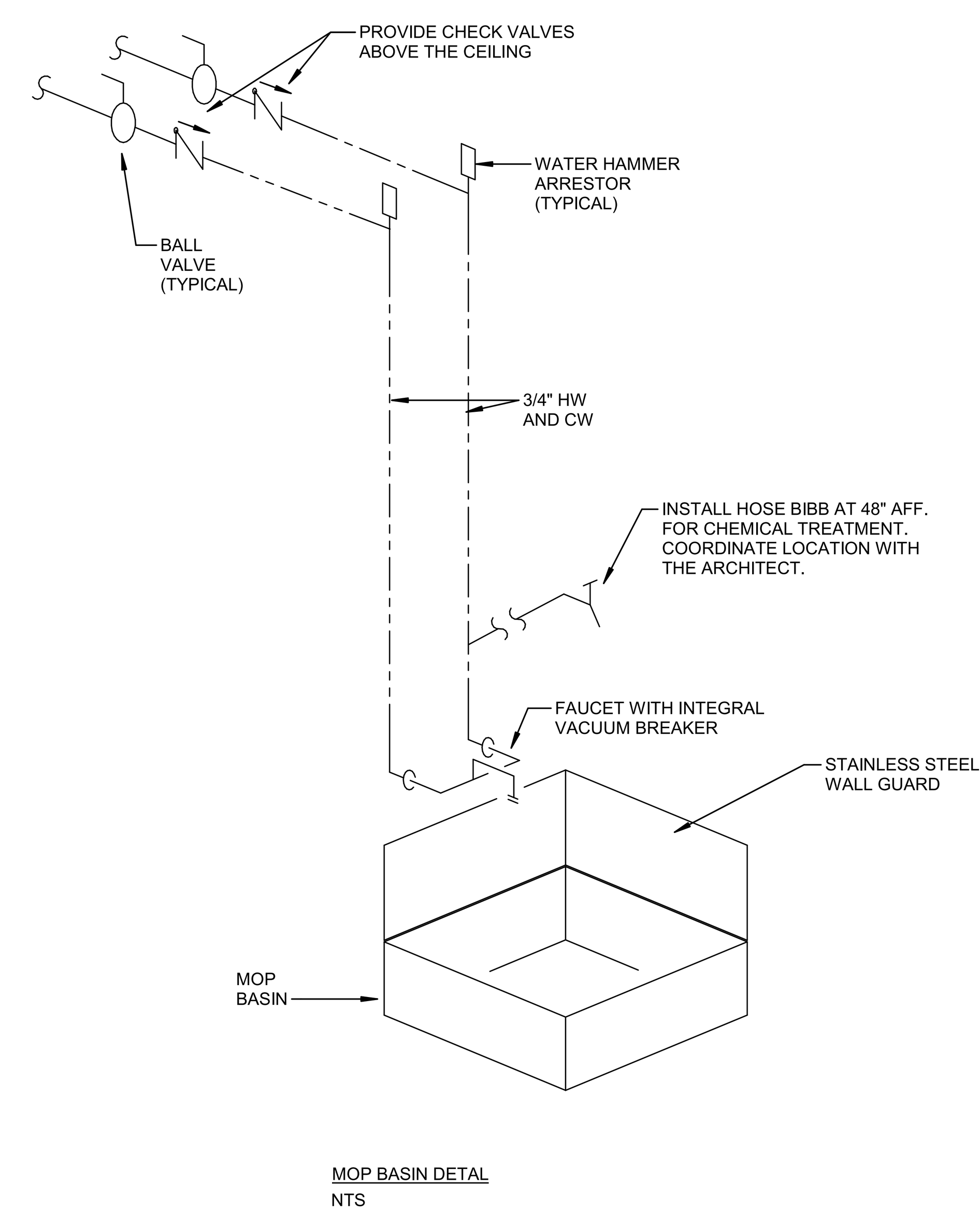
PLUMBING PUMP SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	HP	HEAD LOSS (FT)	GPM	ELECTRICAL (VOLT/PH)	REMARKS
RP-1	BELL & GOSSETT PL-30	WH-1	1/12	15	10	115/1	1, 2, 3, 4, 5

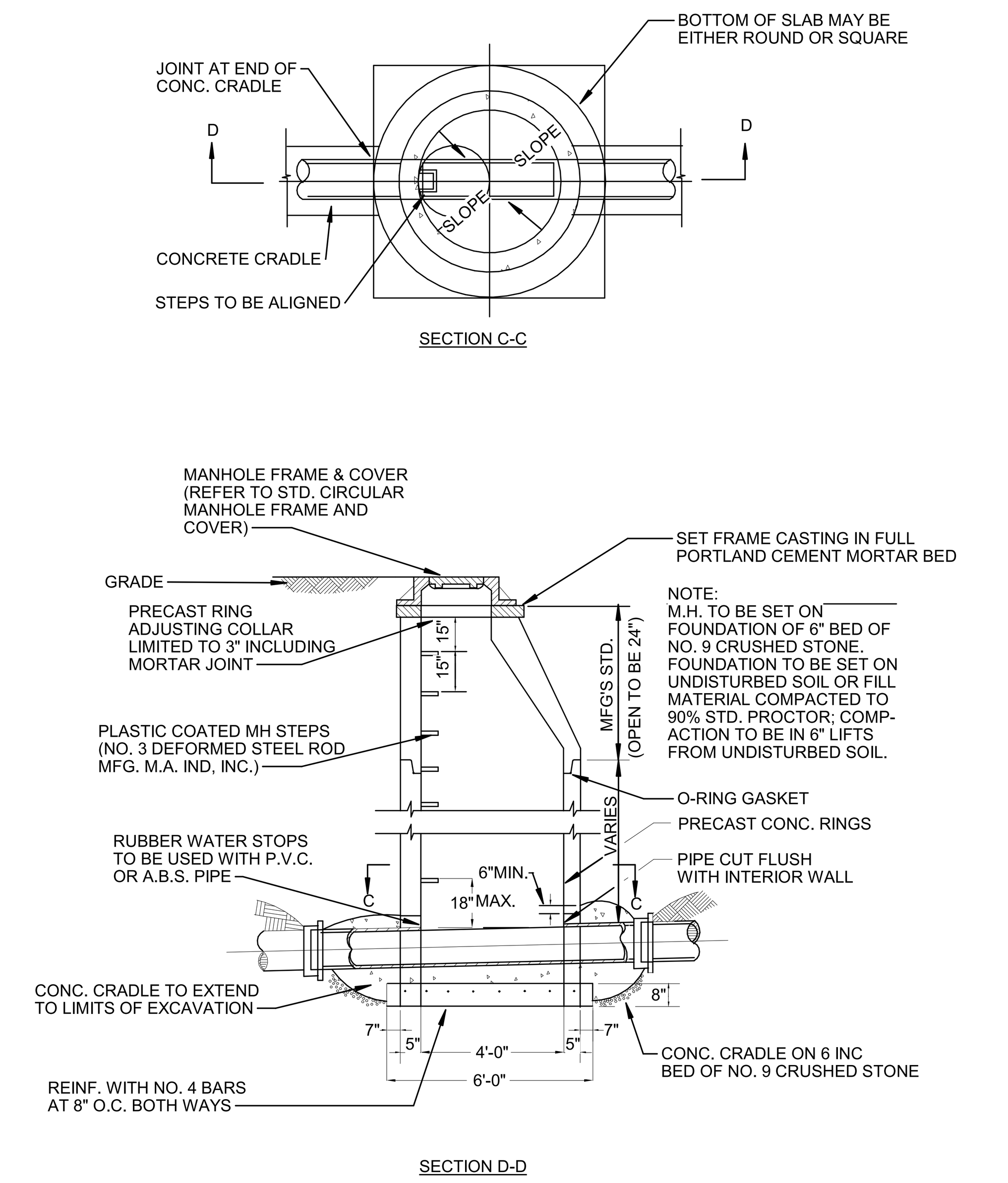
REMARKS:

1. SINGLE POINT ELECTRICAL CONNECTION.
2. BRONZE PUMP BODY FOR POTABLE WATER APPLICATION.
3. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE WITH ECM METER WITH BAS INTERFACE.
5. EQUALS SHALL INCLUDE THRUSH AND ARMSTRONG.
6. EQUALS SHALL INCLUDE ZOELLER.

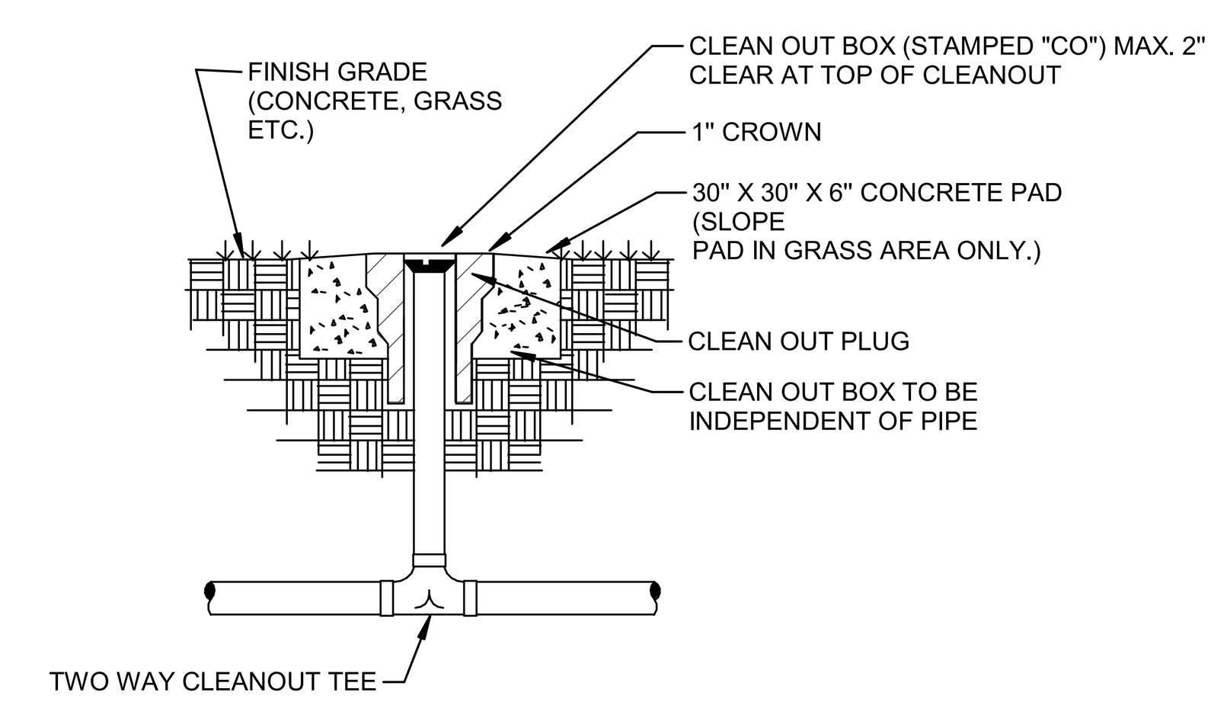
1 SINGLE WATER HEATER WITH RECIRC - PIPING SCHEMATIC
SCALE: NONE



2 MOP BASIC DETAIL
SCALE: NONE

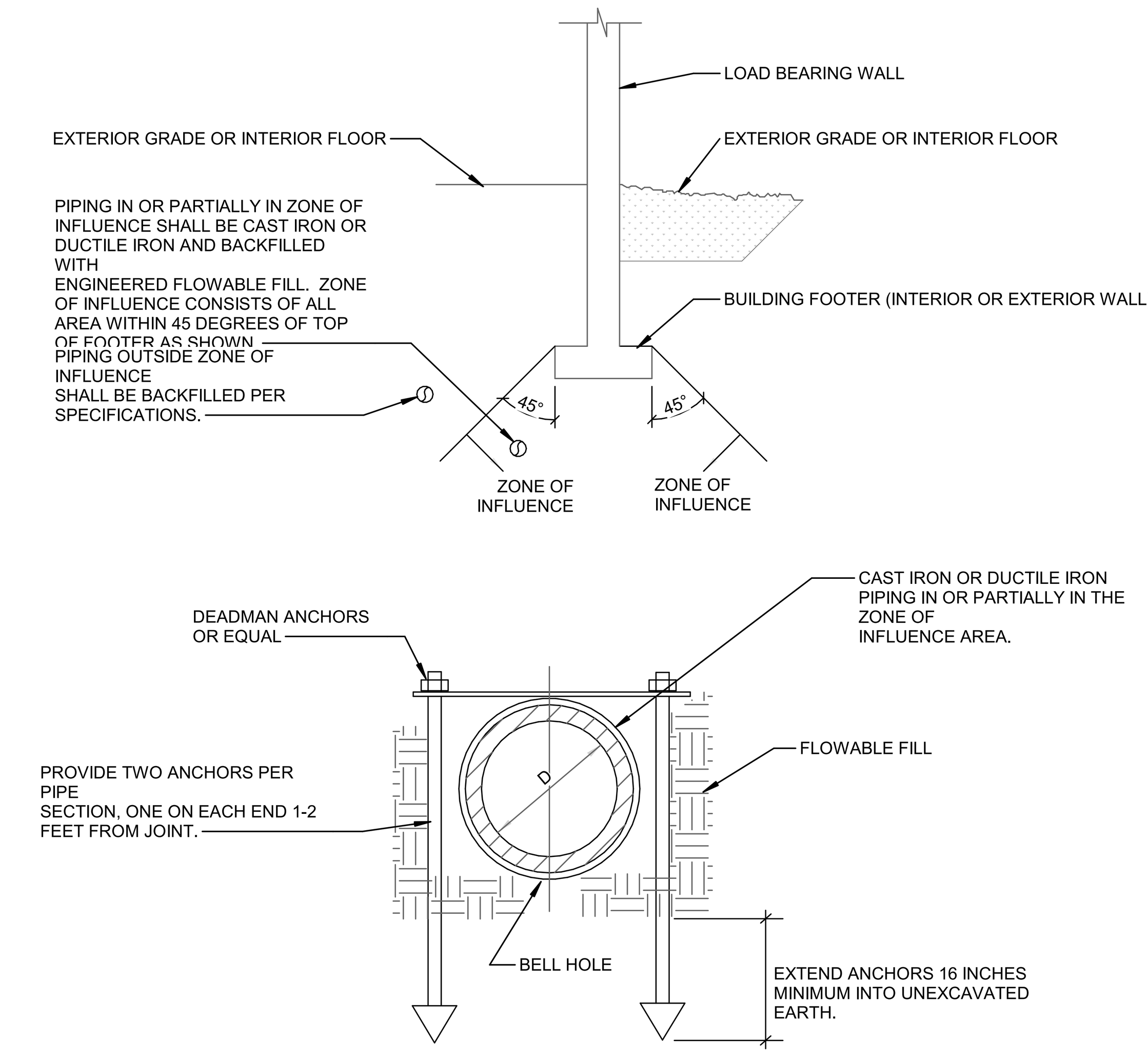


3 MANHOLE INSTALLATION DETAIL
SCALE: NONE

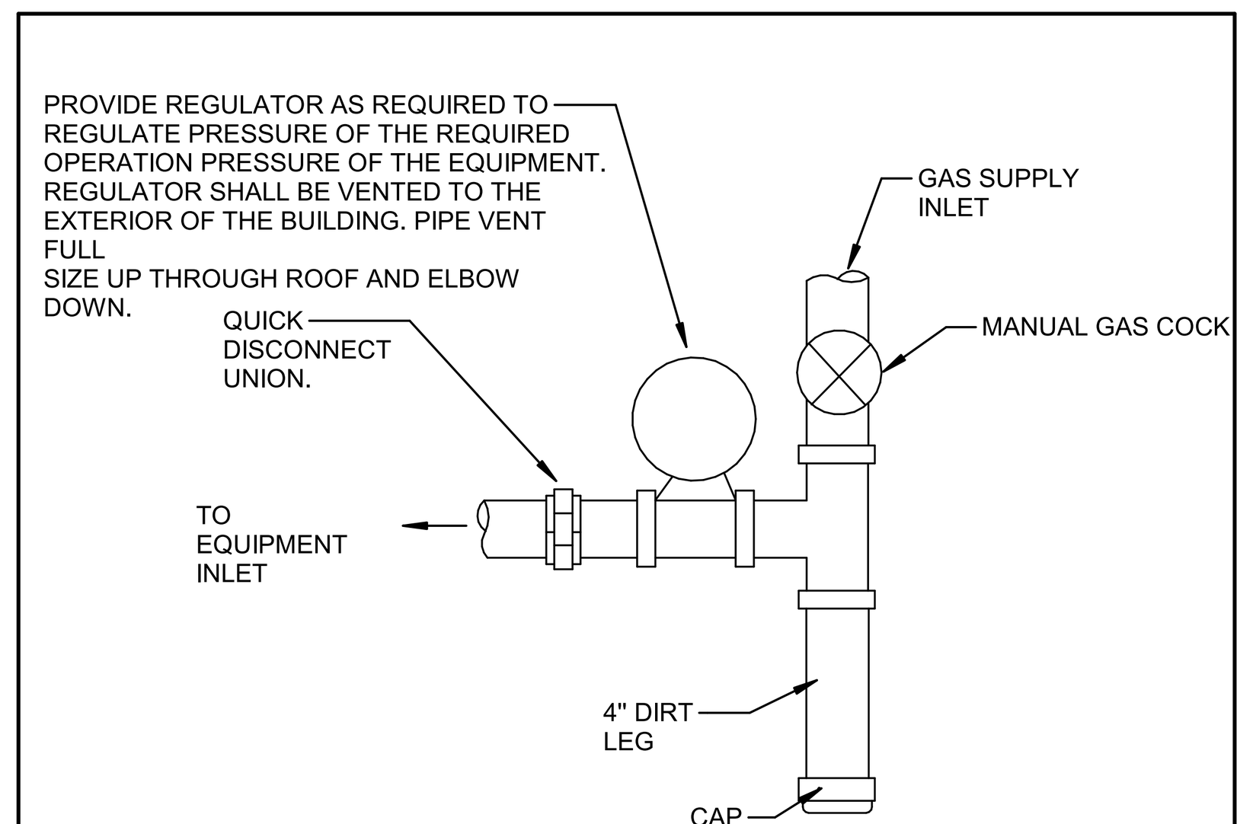


NOTE: ALL CLEANOUTS SHALL BE FLUSH WITH THE ELEVATION OF THE SURFACE ON WHICH IT IS BEING INSTALLED, WHETHER IT BE GRASS OR CONCRETE. INSTALL PER KBC AND OTHER APPLICABLE CODES.

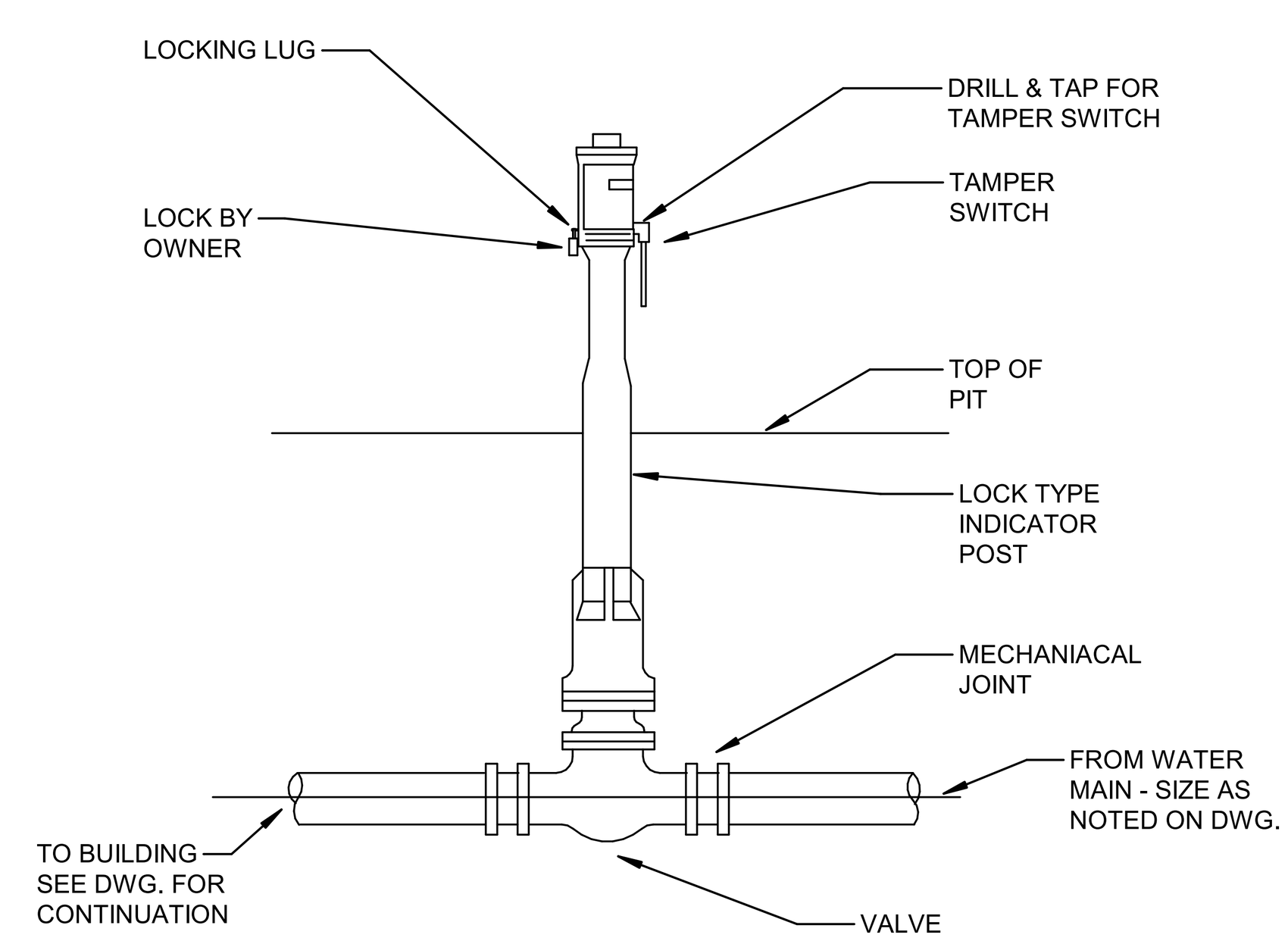
5 EXTERIOR CLEANOUT DETAIL
SCALE: NONE



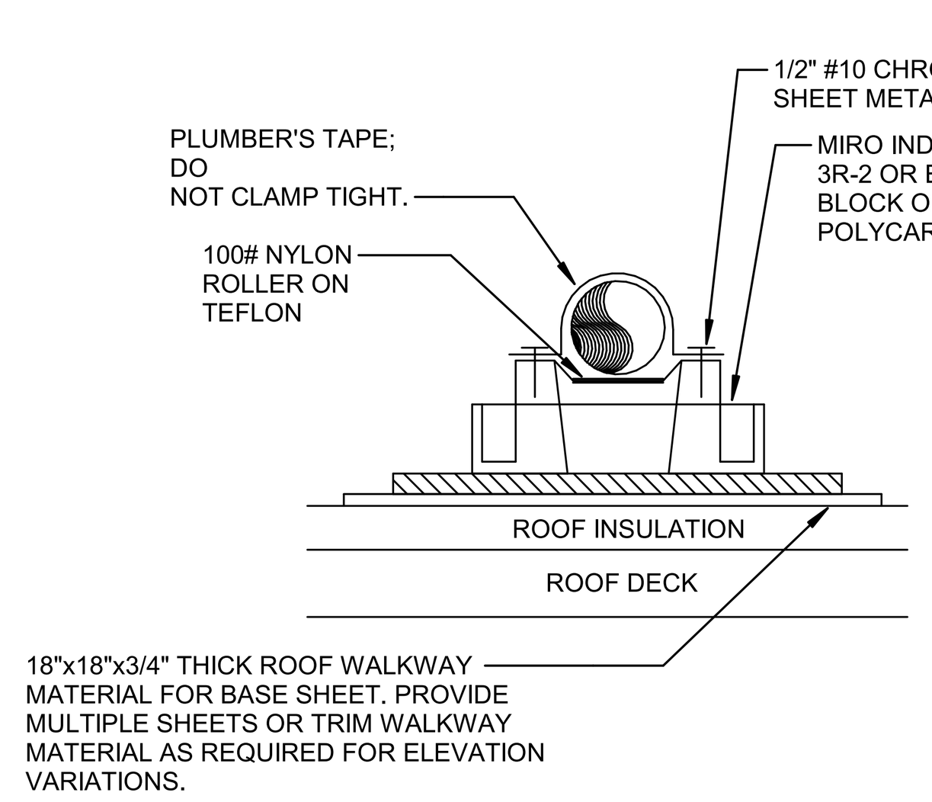
6 UNDERGROUND PIPING AND FOOTER COORDINATION SCHEMATIC
SCALE: NONE



4 TYPICAL GAS CONNECTION DETAIL
SCALE: NONE



8 POST INDICATOR VALVE (P.I.V.) DETAIL
SCALE: NONE



PIPE SIZE	SUPPORT SPACING
3/4"	6'-0"
1"	7'-0"
1-1/4"	8'-0"
1-1/2"	9'-0"
2"& UP	10'-0"

7 ROOFTOP GAS PIPING SUPPORT DETAIL
SCALE: NONE

ACCEPTABLE MANUFACTURERS FOR PLUMBING FIXTURES, TRIM, AND EQUIPMENT

WATER CLOSETS, LAVATORIES, URINALS AMERICAN STANDARD, KOHLER, CRANE, ZURN	MOP SINKS AND SERVICE SINKS FIAT PRODUCTS, AMERICAN STANDARD, ELJER, KOHLER, FLORESTONE, STERN-WILLIAMS	WASH FOUNTAINS BRADLEY, ACORN, WILLOUGHBY, INTERSAN	TRAP PRIMERS PPP, SIOUX CHIEF, ZURN
FAUCETS AND TRIM AMERICAN STANDARD, KOHLER, CHICAGO, DELTA, T&S BRASS COMMERCIAL, ZURN, JUST, SPEAKMAN, MOEN COMMERCIAL	FIXTURE CARRIERS ZURN, WADE, JOSAM, WATTS	EMERGENCY FIXTURES - EYEWASH, SHOWERS GUARDIAN, BRADLEY, SPEAKMAN	WATER HEATERS LOCHINVAR, AO SMITH, BRADFORD WHITE, STATE, PVI, RHEEM
FLUSH VALVES AMERICAN STANDARD, SLOAN, ZURN, MOEN	STAINLESS STEEL SINKS ELKAY, JUST, MOEN, STERLING	P-TRAP INSULATION KIT (TRAP WRAP) TRUEBRO, BROCAR, PLUMBEREX	TEMPERING VALVES LEONARD, LAWLER, BRADLEY, SYMMONS
FIXTURE SEATS BEMIS, CHURCH, OLSONITE	SHOWER STALLS CLARION, UNIVERSAL-RUNDLE, AQUA-BATH, AQUA-GLASS, AQUARIUS	FLOOR DRAINS ZURN, WADE, JOSAM, WATTS	EXPANSION TANKS AMTROL, WATTS, BELL & GOSSETT
ELECTRIC WATER COOLERS ELKAY, HALSEY TAILOR, HAWS, OASIS	WASHER BOX GUY GRAY, WOLVERINE, OATEY	WALL HYDRANTS AND HOSE BIBBS ZURN, WOODFORD, WATTS	SHOWER VALVES LEONARD, LAWLER, BRADLEY, POWERS

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PLUMBING DETAILS

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GENERAL NOTES - MECHANICAL

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK THAT IS NOT COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
M. ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
N. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
O. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
P. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
Q. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
R. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
S. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
T. SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.
U. ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
V. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
W. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
X. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
Y. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
Z. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
AA. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
BB. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
CC. WHEN ROUTING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
DD. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

GENERAL NOTES - DEMOLITION

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELD VERIFY EXACT REQUIREMENTS.
B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

PHASING NOTES

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET **OR** FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
OFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET **OR** FOOT
SQ IN	SQUARE INCH **OR** INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS

(#)	TAGGED NOTE DESIGNATOR
(A)	REVISION TRIANGLE
ROOM NAME (SEE A)	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
TAG (XXX) AIRFLOW #,###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##/##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##Ø	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
TA	TRANSFER AIR DUCT
SA	SA AIR DUCT TURNING UP
SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
D(XXX)	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
T	THERMOSTAT
C	CARBON DIOXIDE SENSOR
E(SAD) XXX CFM	CONTRACTOR SHALL REBALANCE EXISTING SUPPLY DIFFUSER TO INDICATED CFM.
E(RAD) XXX CFM	CONTRACTOR SHALL REBALANCE EXISTING RETURN DIFFUSER TO INDICATED CFM.
E(EAD) XXX CFM	CONTRACTOR SHALL REBALANCE EXISTING EXHAUST DIFFUSER TO INDICATED CFM.
	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER
VERT. HORIZ.	COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
BFW	BOILER FEEDWATER
CAI/E	COMBUSTION AIR INTAKE/EXHAUST
CBS/R	CHILLED BEAM SUPPLY/RETURN
CD	CONDENSATE
UCD	UNDERSLAB CONDENSATE
CHWS/R	CHILLED WATER SUPPLY/RETURN
DTS/R	DUAL TEMP. WATER SUPPLY/RETURN
GS/R	GEOTHERMAL WATER SUPPLY/RETURN
HPS/R	HEAT PUMP WATER SUPPLY/RETURN
HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
HWS/R	HEATING WATER SUPPLY/RETURN
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
OS&Y	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	THERMOMETER
RF	REFRIGERANT SUPPLY/RETURN PIPING

HAZARDOUS MATERIALS NOTES

A. THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREES TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

Sheet List - Mechanical

SHEET #	SHEET NAME
M2.0	MECHANICAL DEMOLITION PLANS
M3.0	MECHANICAL PLANS
M3.1	MECHANICAL ROOF DEMOLITION PLANS
M3.2	MECHANICAL ROOF PLANS
M3.3	MECHANICAL ALTERNATES #1 & #2
M4.0	MECHANICAL SECTIONS
M5.0	MECHANICAL DETAILS
M6.0	MECHANICAL CONTROLS
M6.1	MECHANICAL CONTROLS
M7.0	MECHANICAL SCHEDULES
M1.0	MECHANICAL LEGEND

APPLICABLE BUILDING CODES

APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA13	2018
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) OR ASHRAE 90.1	STATE EDITION	2012 OR 2010
INTERNATION FIRE CODE (IFC)	STATE EDITION	2015
INTERNATION FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATION MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATION PLUMBING CODE (IPC)	STATE EDITION	2015
INTERNATION EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2011
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2010
UNIFORM STATEWIDE BUILDING CODE		2018

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BG# 19-262

Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

M1.0

MECHANICAL LEGEND

DATE ISSUED:
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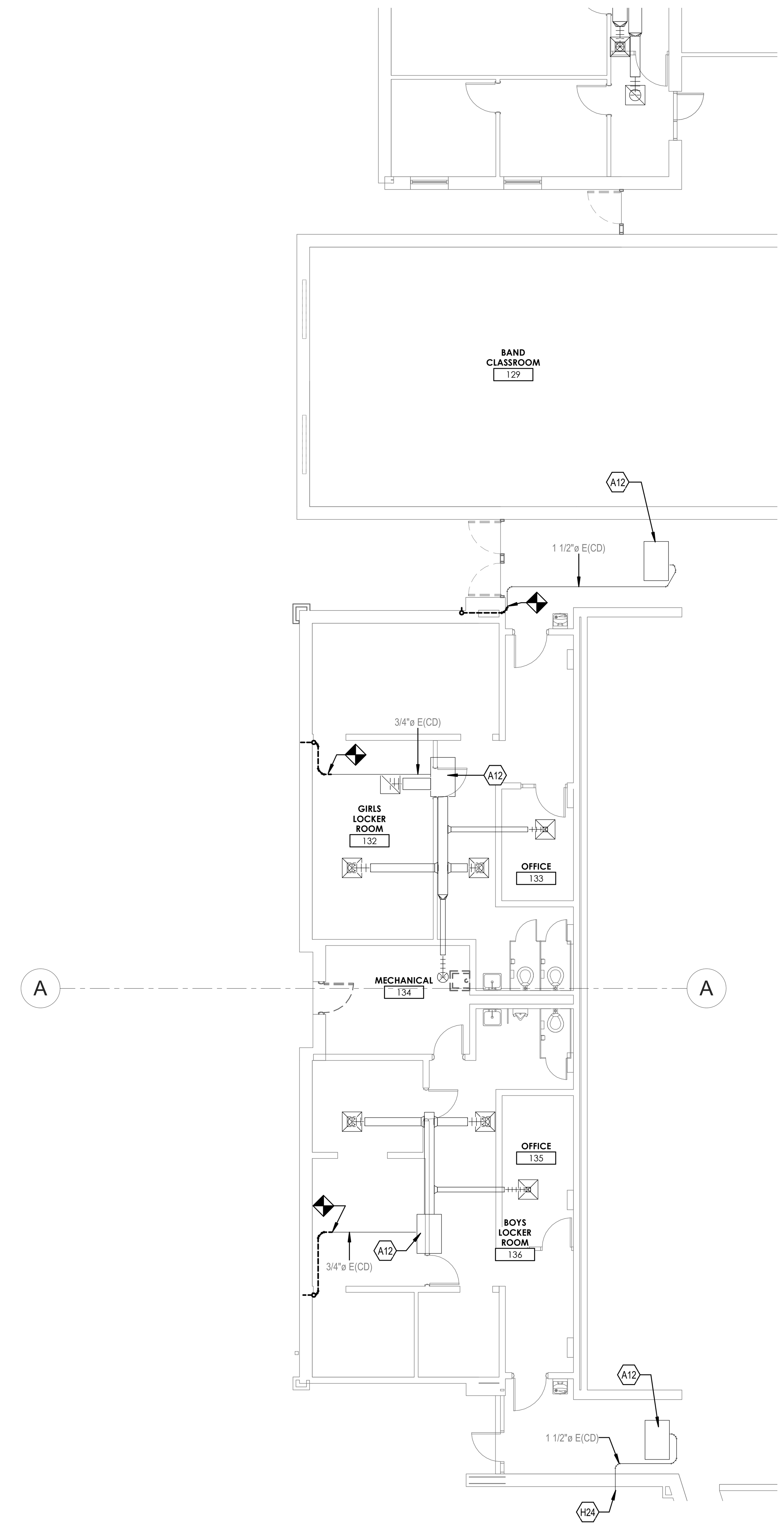
REVISIONS

#	DATE	DESCRIPTION



FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"
2
M2.0

GENERAL AIR DISTRIBUTION NOTES

A	REFER TO R,G,D RUNOUT SCHEDULE FOR R,G,D DUCT SIZE.
B	REFER TO TYPICAL BRANCH DUCT SUPPLY/OUTSIDE/RETURN/EXHAUST AIR DETAIL.
C	COORDINATE REGISTERS, GRILLES, AND DIFFUSERS WITH REFLECTED CEILING PLANS AND LIGHTING PLANS.
D	REFER TO AIR TERMINAL UNIT SCHEDULE FOR ALL RUNOUT SIZED OF VAV AND CAV BOXES.
E	COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL DRAWINGS. REFER TO SHEET S1.2.
F	COORDINATE WITH ARCHETECTURAL DRAWINGS WHEN PATCHING WALLS, FLOOR, ETC.

GENERAL HYDRONIC DESIGN NOTES

A	REFER TO HPS/SPR RUNOUT SIZES SCHEDULE ON THIS SHEET FOR CONDENSATE RUNOUT SIZES.
B	REFER TO HVAC CONTROLS SHEETS FOR ADDITIONALS INFORMATION ON THERMOSTATS AND CO2 SENSORS ON SHEETS M600-M603.
C	REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON M700.
D	COORDINATE ALL MECHANICAL EQUIPMENT AND HYDRONIC PIPING WITH STRUCTURAL DRAWINGS. REFER TO SHEET S2.1 FOR PENETRAITON DETAILS.

R,G,D RUNOUT SCHEDULE

MARK	DUCT OUTLET
E-1	6"ø
E-3	10"ø
E-5	14"X10"
R-2	8"ø
R-3	10"ø
R-4	12"ø
R-5	14"ø
S-1	6"ø
S-2	8"ø
S-3	10"ø
S-4	12"ø
T-1	SEE PLANS

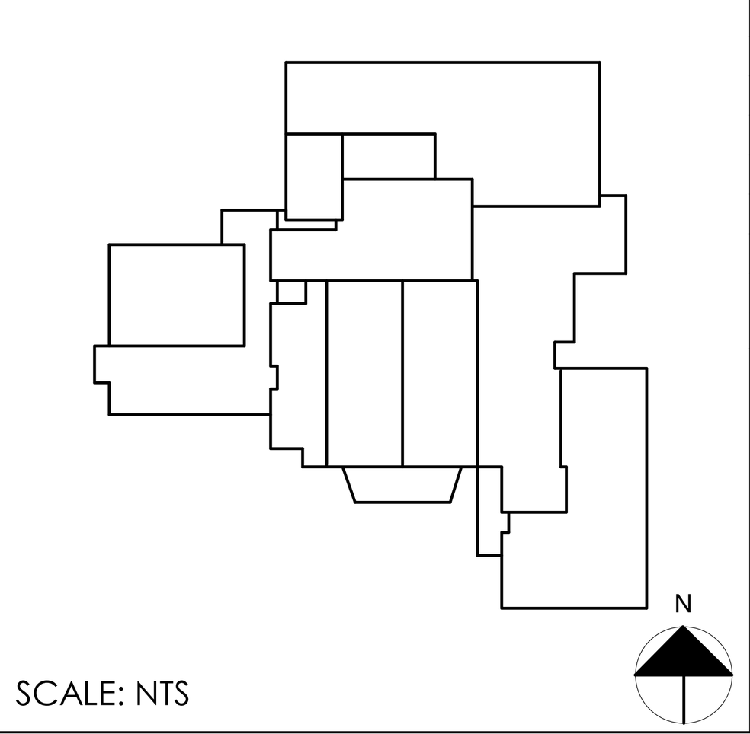
HPS/HPR RUNOUT SIZES

MARK	CONDENSATE PIPE SIZE	HYDRONIC INLET PIPE SIZE
CAS-1	3/4"	-
CHP-012	3/4"	1"
CHP-018	3/4"	1-1/4"
CHP-018A	3/4"	1-1/4"
DOAS-1	3/4"	-
RTU-1	3/4	-
RTU-2	1-1/4"	-
SS-1	3/4"	-

TAGGED NOTES

A12	EXISTING HORIZONTAL HEAT PUMP TO REMAIN.
H24	EXISTING CONDENSATE PIPING EXITS BUILDING AT APPROXIMATELY 9' ABOVE FLOOR.

KEY PLAN



SCALE: NTS

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CONSTRUCTION DOCUMENTS

M2.0

MECHANICAL DEMOLITION PLANS
DATE ISSUED:
9/13/19

REVISIONS

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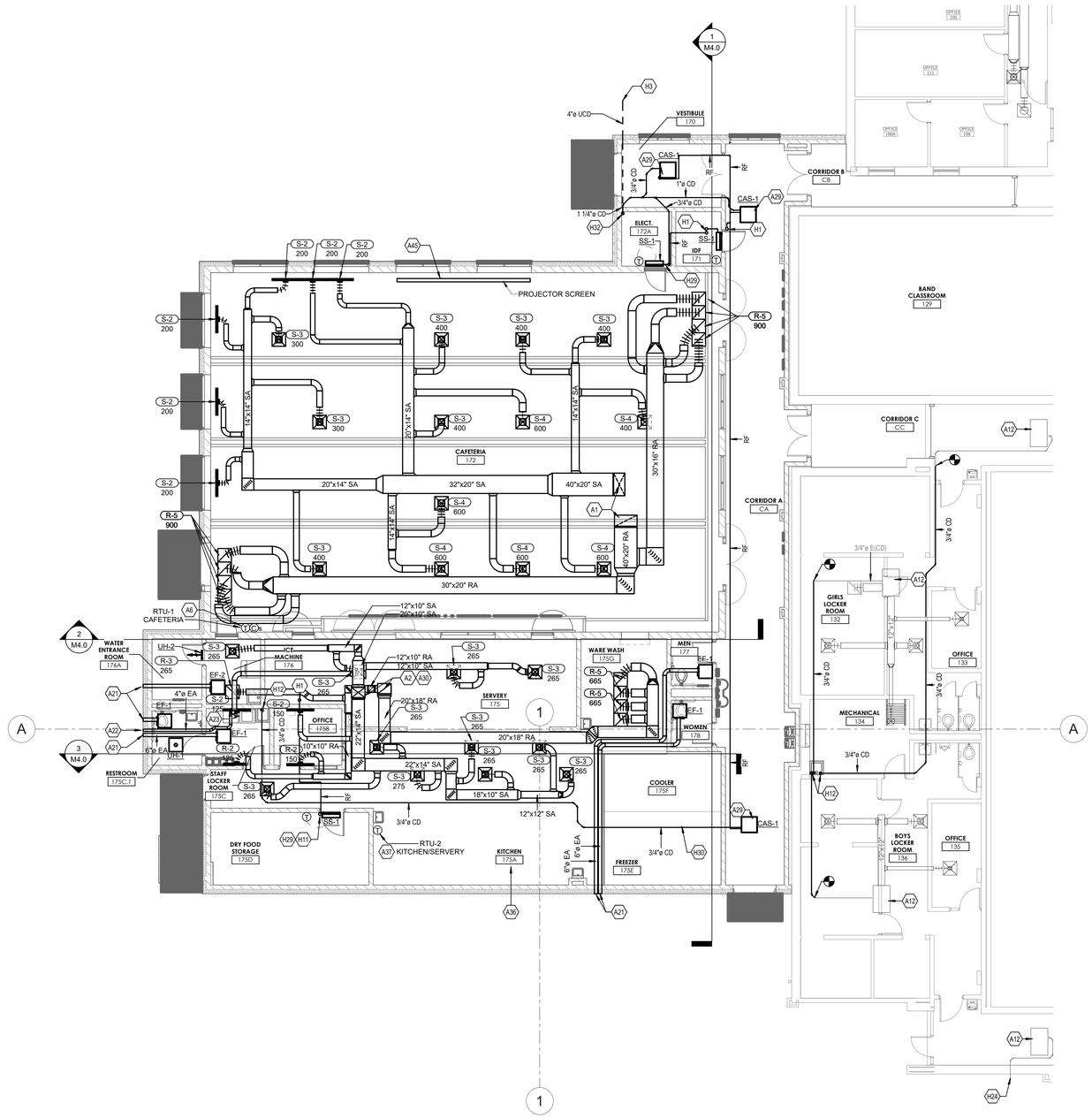


FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"

2 M3.0

GENERAL AIR DISTRIBUTION NOTES

A	REFER TO R,G,D RUNOUT SCHEDULE FOR R,G,D DUCT SIZE.
B	REFER TO TYPICAL BRANCH DUCT SUPPLY/OUTSIDE/RETURN/EXHAUST AIR DETAIL.
C	COORDINATE REGISTERS, GRILLES, AND DIFFUSERS WITH REFLECTED CEILING PLANS AND LIGHTING PLANS.
D	REFER TO AIR TERMINAL UNIT SCHEDULE FOR ALL RUNOUT SIZED OF VAV AND CAV BOXES.
E	COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL DRAWINGS. REFER TO SHEET S1.2.
F	COORDINATE WITH ARCHETECTURAL DRAWINGS WHEN PATCHING WALLS, FLOOR, ETC.

GENERAL HYDRONIC DESIGN NOTES

A	REFER TO HPS/SPR RUNOUT SIZES SCHEDULE ON THIS SHEET FOR CONDENSATE RUNOUT SIZES.
B	REFER TO HVAC CONTROLS SHEETS FOR ADDITIONALS INFORMATION ON THERMOSTATS AND CO2 SENSORS ON SHEETS M600-M603.
C	REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON M700.
D	COORDINATE ALL MECHANICAL EQUIPMENT AND HYDRONIC PIPING WITH STRUCTURAL DRAWINGS. REFER TO SHEET S2.1 FOR PENETRAITON DETAILS.

R,G,D RUNOUT SCHEDULE

MARK	DUCT OUTLET
E-1	6"ø
E-3	10"ø
E-5	14"X10"
R-2	8"ø
R-3	10"ø
R-4	12"ø
R-5	14"ø
S-1	6"ø
S-2	8"ø
S-3	10"ø
S-4	12"ø
T-1	SEE PLANS

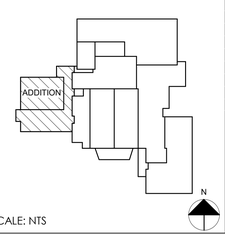
HPS/HPR RUNOUT SIZES

MARK	CONDENSATE PIPE SIZE	HYDRONIC INLET PIPE SIZE
CAS-1	3/4"	-
CHP-012	3/4"	1"
CHP-018	3/4"	1-1/4"
CHP-018A	3/4"	1-1/4"
DOAS-1	3/4"	-
RTU-1	3/4	-
RTU-2	1-1/4"	-
SPR-1	3/4"	-

TAGGED NOTES

A1	40"X20" SUPPLY AIR AND RETURN AIR DUCTS UP TO RTU-1. TRANSITION AS REQUIRED TO UNIT DISCHARGE.
A2	24"X18" SUPPLY AIR AND RETURN AIR DUCTS UP TO RTU-2. TRANSITION AS REQUIRED TO UNIT DISCHARGE.
A6	THERMOSTAT AND CARBON DIOXIDE SENSOR IS ASSOCIATED WITH RTU-1 WHICH IS LOCATED ON ROOF. REFER TO SHEET M3.2.
A12	EXISTING HORIZONTAL HEAT PUMP TO REMAIN.
A21	6" DIA. EXHAUST AIR DUCT SHALL HAVE PRE-FINISHED ALUMINUM WALL CAP WITH INTEGRAL BACKDRAFT DAMPER WITH INSECT SCREEN. MOUNT INTEGRAL BACKDRAFT DAMPER APPROXIMATELY 9' 3" ABOVE FINISHED FLOOR TO CENTER.
A22	4" DIA. EXHAUST AIR DUCT SHALL HAVE INTEGRAL BACKDRAFT DAMPER WITH INSECT SCREEN. MOUNT INTEGRAL BACKDRAFT DAMPER APPROXIMATELY 9' 3" ABOVE FINISHED FLOOR TO CENTER.
A23	4" DIA. EXHAUST AIR DUCT DOWN TO DRYER.
A29	REFER TO VRV PIPING SCHEMATIC ON SHEET M5.0.
A30	COORDINATE SUPPLY AND RETURN DUCTS WITH STRUCTURAL DRAWINGS. REFER TO STRUCTURAL SHEET S1.2.
A36	COORDINATE ALL DUCTWORK IN KITCHEN 175A WITH KITCHEN EQUIPMENT AND ROOF MOUNTED KITCHEN EQUIPMENT. REFER TO FOOD SERVICE CONSULTANT DRAWINGS, SHEETS FS1.0-FS1.3.
A37	ASSOCIATED THERMOSTAT IS ASSOCIATED WITH RTU-2 WHICH IS LOCATED ON ROOF. REFER TO SHEET M3.1.
A45	COORDINATE ALL DUCT ROUTING AROUND PROJECTOR AND PROJECTOR SCREEN.
H1	REFRIGERANT SUPPLY AND RETURN PIPING UP.
H3	CONDENSATE TO EXIT BUILDING AT LOCATION INDICATED 24" BELOW THE FFE ELEVATION.
H11	3/4" CONDENSATE PIPING UP TO ROOF.
H12	3/4" CONDENSATE PIPING TO MOP BASIN.
H24	EXISTING CONDENSATE PIPING EXITS BUILDING AT APPROXIMATELY 9' ABOVE FLOOR.
H29	PROVIDE MANUFACTURER'S SHROUD TO COVER EXPOSED PIPING. COORDINATE COLOR AND TYPE WITH ARCHITECTURAL REQUIREMENTS.
H30	COORDINATE CONDENSATE ROUTING WITH COOLER AND FREEZER EQUIPMENT. REFER TO FOOD SERVICE CONSULTANT DRAWINGS, SHEETS FS1.0-FS1.3.
H32	ROUTE CONDENSATE DOWN TO BELOW UNDERSLAB. TRANSITION CONDENSATE PIPING TO 4" PRIOR TO ROUTING. PROVIDE CONDENSATE CLEANOUT PRIOR TO ROUTING CONDENSATE TO UNDERSLAB.

KEY PLAN



SCALE: NTS

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CONSTRUCTION DOCUMENTS

M3.0

MECHANICAL PLANS

DATE ISSUED:
9/13/19

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#	DATE	DESCRIPTION

ROOF MECHANICAL DEMOLITION PLAN
1" = 10'-0"
1
M3.1

GENERAL AIR DISTRIBUTION NOTES

A	REFER TO R,G,D RUNOUT SCHEDULE FOR R,G,D DUCT SIZE.
B	REFER TO TYPICAL BRANCH DUCT SUPPLY/OUTSIDE/RETURN/EXHAUST AIR DETAIL.
C	COORDINATE REGISTERS, GRILLES, AND DIFFUSERS WITH REFLECTED CEILING PLANS AND LIGHTING PLANS.
D	REFER TO AIR TERMINAL UNIT SCHEDULE FOR ALL RUNOUT SIZED OF VAV AND CAV BOXES.
E	COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL DRAWINGS. REFER TO SHEET S1.2.
F	COORDINATE WITH ARCHETECTURAL DRAWINGS WHEN PATCHING WALLS, FLOOR, ETC.

GENERAL HYDRONIC DESIGN NOTES

A	REFER TO HPS/SPR RUNOUT SIZES SCHEDULE ON THIS SHEET FOR CONDENSATE RUNOUT SIZES.
B	REFER TO HVAC CONTROLS SHEETS FOR ADDITIONALS INFORMATION ON THERMOSTATS AND CO2 SENSORS ON SHEETS M600-M603.
C	REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON M700.
D	COORDINATE ALL MECHANICAL EQUIPMENT AND HYDRONIC PIPING WITH STRUCTURAL DRAWINGS. REFER TO SHEET S2.1 FOR PENETRAITON DETAILS.

R,G,D RUNOUT SCHEDULE

MARK	DUCT OUTLET
E-1	6"ø
E-3	10"ø
E-5	14"X10"
R-2	8"ø
R-3	10"ø
R-4	12"ø
R-5	14"ø
S-1	6"ø
S-2	8"ø
S-3	10"ø
S-4	12"ø
T-1	SEE PLANS

HPS/HPR RUNOUT SIZES

MARK	CONDENSATE PIPE SIZE	HYDRONIC INLET PIPE SIZE
CAS-1	3/4"	-
CHP-012	3/4"	1"
CHP-018	3/4"	1-1/4"
CHP-018A	3/4"	1-1/4"
DOAS-1	3/4"	-
RTU-1	3/4	-
RTU-2	1-1/4"	-
SS-1	3/4"	-

TAGGED NOTES

##

A38	DEMOLISH EXISTING EXHAUST FAN IF ALT#2 IS ACCEPTED. EXISTING ROOF CURB TO REMAIN. CAP ROOF CURB WITH INSULATED SHEET METAL. CAP AIR AND WATER TIGHT. REFER TO SHEET M3.3.
A39	ABANDON EXISTING ROOF MOUNTED KITCHEN EXHAUST FAN IF ALT#1 IS ACCEPTED. TERMINATE ALL EXISTING ELECTRICAL WIRING, POWER, AND CONNECTIONS. REFER TO SHEET M3.3.

KEY PLAN

SCALE: NTS

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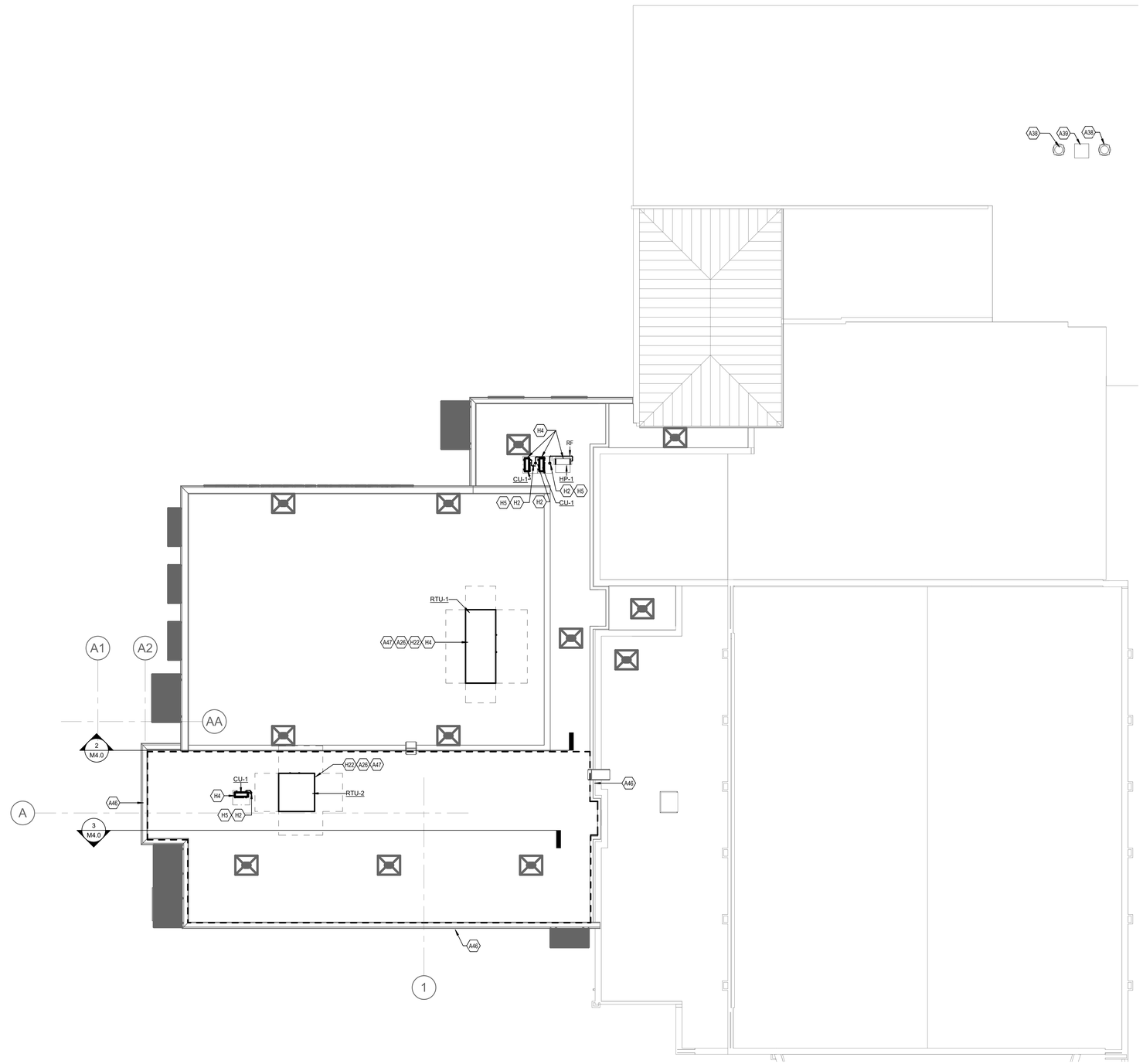
CONSTRUCTION DOCUMENTS

M3.1

MECHANICAL ROOF
DEMOLITION PLANS
DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION



ROOF MECHANICAL PLAN
1" = 10'-0"
1
M3.2

GENERAL AIR DISTRIBUTION NOTES

A	REFER TO R,G,D RUNOUT SCHEDULE FOR R,G,D DUCT SIZE.
B	REFER TO TYPICAL BRANCH DUCT SUPPLY/OUTSIDE/RETURN/EXHAUST AIR DETAIL.
C	COORDINATE REGISTERS, GRILLES, AND DIFFUSERS WITH REFLECTED CEILING PLANS AND LIGHTING PLANS.
D	REFER TO AIR TERMINAL UNIT SCHEDULE FOR ALL RUNOUT SIZED OF VAV AND CAV BOXES.
E	COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL DRAWINGS. REFER TO SHEET S1.2.
F	COORDINATE WITH ARCHETECTURAL DRAWINGS WHEN PATCHING WALLS, FLOOR, ETC.

GENERAL HYDRONIC DESIGN NOTES

A	REFER TO HPS/SPR RUNOUT SIZES SCHEDULE ON THIS SHEET FOR CONDENSATE RUNOUT SIZES.
B	REFER TO HVAC CONTROLS SHEETS FOR ADDITIONALS INFORMATION ON THERMOSTATS AND CO2 SENSORS ON SHEETS M600-M603.
C	REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON M700.
D	COORDINATE ALL MECHANICAL EQUIPMENT AND HYDRONIC PIPING WITH STRUCTURAL DRAWINGS. REFER TO SHEET S2.1 FOR PENETRAITON DETAILS.

R,G,D RUNOUT SCHEDULE

MARK	DUCT OUTLET
E-1	6"ø
E-3	10"ø
E-5	14"X10"
R-2	8"ø
R-3	10"ø
R-4	12"ø
R-5	14"ø
S-1	6"ø
S-2	8"ø
S-3	10"ø
S-4	12"ø
T-1	SEE PLANS

HPS/HPR RUNOUT SIZES

MARK	CONDENSATE PIPE SIZE	HYDRONIC INLET PIPE SIZE
CAS-1	3/4"	-
CHP-012	3/4"	1"
CHP-018	3/4"	1-1/4"
CHP-018A	3/4"	1-1/4"
DOAS-1	3/4"	-
RTU-1	3/4	-
RTU-2	1-1/4"	-
SS-1	3/4"	-

TAGGED NOTES

A26	REFER TO SHEET P-4.0 FOR GAS PIPE ROUTING.
A38	DEMOLISH EXISTING EXHAUST FAN IF ALT#2 IS ACCEPTED. EXISTING ROOF CURB TO REMAIN. CAP ROOF CURB WITH INSULATED SHEET METAL. CAP AIR AND WATER TIGHT. REFER TO SHEET M3.3.
A39	ABANDON EXISTING ROOF MOUNTED KITCHEN EXHAUST FAN IF ALT#1 IS ACCEPTED. TERMINATE ALL EXISTING ELECTRICAL WIRING, POWER, AND CONNECTIONS. REFER TO SHEET M3.3.
A46	COORDINATE ALL ROOFTOP HVAC EQUIPMENT IN DASHED REGION WITH FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE CONSULTANT DRAWINGS, SHEETS FS1.0-FS1.3.
A47	PROVIDE 18" INSULATED ROOF CURB.
H2	REFRIGERANT SUPPLY AND RETURN PIPING DOWN.
H4	PROVIDE THYBAR TEMS 1 EQUIPMENT MOUNTING SUPPORTS FOR INSULATED ROOFDECK.
H5	PROVIDE THYBAR TC SERIES INSULATED PIPE CURB FOR REFRIGERANT PIPING PENTRATIONS.
H22	PROVIDE ROOFTOP UNIT WITH CONDENSATE PIPING. SIZE AND TRAP PER MANUFACTURERS REQUIREMENTS. PROVIDE AND SPILL CONDENSATE TO WALKWAY PAD.

KEY PLAN

SCALE: NTS

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MECHANICAL ROOF PLANS
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FOR:
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BG# 19-262
Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

M3.2

MECHANICAL ROOF PLANS

DATE ISSUED:
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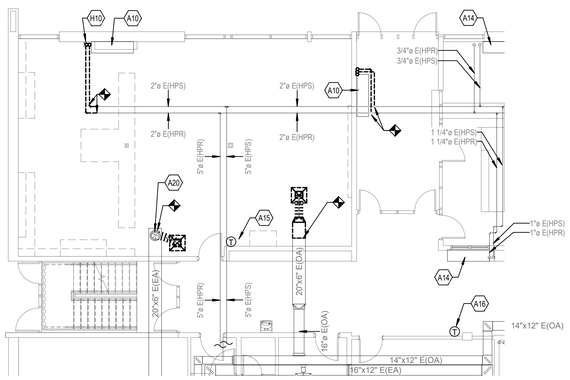
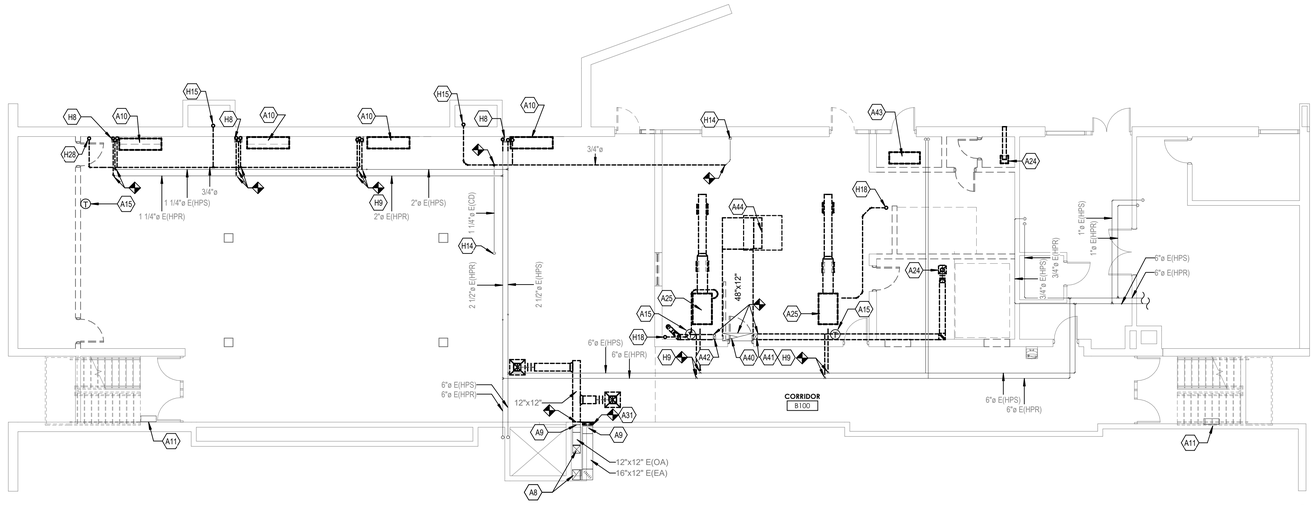


ALTERNATE #2 FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"
1 M3.3



ALT#1 BASEMENT MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"
4 M3.3

ALTERNATE#2 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"
5 M3.3

ALT#1 BASEMENT MECHANICAL PLAN
1/8" = 1'-0"
3 M3.3

TAGGED NOTES

##	
A5	REFER TO DUCTED RETURN/EXHAUST/RELIEF AIR GRILLE DETAIL, SHEET M5.0.
A7	EXISTING 16"x12" RETURN AIR DUCT MOUNTED BELOW SUPPLY AIR DUCT. SHOWN TO THE SIDE FOR CLARITY.
A8	EXISTING 12"x12" SUPPLY AIR DUCT AND EXISTING 16"x12" RETURN AIR DUCT UP TO FLOOR ABOVE.
A9	EXISTING FIRE DAMPER TO REMAIN.
A10	EXISTING CONSOLE HEAT PUMP TO BE DEMOLISHED. PAINT AND PATCH WALL AS REQUIRED, PER ARCHITECTURAL REQUIREMENTS, WHERE NEW UNIT REPLACING THE EXISTING UNIT HAS EXPOSED WALL. DEMOLISH ASSOCIATED THERMOSTAT.
A11	EXISTING CABINET UNIT HEATER TO REMAIN.
A14	EXISTING CONSOLE HEAT PUMP TO REMAIN.
A15	EXISTING THERMOSTAT TO BE DEMOLISHED. PAINT AND PATCH WALL AS REQUIRED PER ARCHITECTURAL REQUIREMENTS.
A16	EXISTING THERMOSTAT TO REMAIN.
A17	ROUTE DUCT HIGH AND TIGHT TO STRUCTURE. COORDINATE EXTENSIVELY WITH EXISTING CONDUIT, FIXTURES, AND PIPING TO AVOID CONFLICTS.
A20	DEMOLISH EXISTING FLEX DUCT BACK TO EXISTING 20"x6" EXHAUST AIR DUCT. EXISTING 20"X6" EXHAUST AIR DUCT SHALL NOT BE MOVED, ALTERED, OR ADJUSTED EXCEPT AS REQUIRED FOR DEMOLITION OF FLEX DUCT.
A21	6" DIA. EXHAUST AIR DUCT SHALL HAVE PRE-FINISHED ALUMINUM WALL CAP WITH INTEGRAL BACKDRAFT DAMPER WITH INSECT SCREEN. MOUNT INTEGRAL BACKDRAFT DAMPER APPROXIMATELY 9' 3" ABOVE FINISHED FLOOR TO CENTER.
A22	4" DIA. EXHAUST AIR DUCT SHALL HAVE INTEGRAL BACKDRAFT DAMPER WITH INSECT SCREEN. MOUNT INTEGRAL BACKDRAFT DAMPER APPROXIMATELY 9' 3" ABOVE FINISHED FLOOR TO CENTER.
A23	4" DIA. EXHAUST AIR DUCT DOWN TO DRYER.
A24	EXISTING CEILING MOUNTED EXHAUST FAN, DIFFUSER, AND ALL ASSOCIATED DUCTWORK TO BE DEMOLISHED. PATCH AND REPAIR ALL WALL PENETRATIONS AIR AND WATER TIGHT. REFER TO ARCHITECTURAL REQUIREMENTS.

TAGGED NOTES

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A25	EXISTING HORIZONTAL HEAT PUMP, ASSOCIATED DUCTWORK, AND CONDENSATE TO BE DEMOLISHED.
A31	CAP DUCT AT INDICATED LOCATION AIR TIGHT. LEAVE DIFFUSER IN PLACE. PAINT AND PATCH PER ARCHITECTURAL REQUIREMENTS
A33	OUTSIDE AIR LOUVER L-1 IS TO BE POSITIONED APPROXIMATELY 0' - 6 1/2" ABOVE FINISHED FLOOR TO CENTER OF LOUVER. COORDINATE EXACT LOCATION WITH OUTDOOR AIR INLET ON CONSOLE HEAT PUMP CHP-018A AND BRICK COURSING. CUT AND PATCH PER ARCHITECTURAL REQUIREMENTS.
A34	6" DIA. EXHAUST AIR DUCT SHALL HAVE INTEGRAL BACKDRAFT DAMPER WITH INSECT SCREEN. MOUNT INTEGRAL BACKDRAFT DAMPER APPROXIMATELY 9' 9" ABOVE FINISHED FLOOR TO CENTER. COORDINATE WITH BRICK COURSING. CUT AND PATCH PER ARCHITECTURAL REQUIREMENTS.
A35	4" DIA. EXHAUST AIR DUCT SHALL HAVE INTEGRAL BACKDRAFT DAMPER WITH INSECT SCREEN. MOUNT INTEGRAL BACKDRAFT DAMPER APPROXIMATELY 9' 9" ABOVE FINISHED FLOOR TO CENTER. COORDINATE WITH BRICK COURSING. CUT AND PATCH PER ARCHITECTURAL REQUIREMENTS.
A40	CAP 48"X12" EXHAUST AIR DUCT ABOVE CEILING AS CLOSE AS POSSIBLE TO FLOOR SLAB AIR TIGHT.
A41	CAP 9"X6" EXHAUST AIR DUCT ABOVE CEILING AS CLOSE AS POSSIBLE TO FLOOR SLAB AIR TIGHT.
A42	CAP 8"X4" EXHAUT AIR DUCT ABOVE CEILING AS CLOSE AS POSSIBLE TO FLOOR SLAB AIR TIGHT.
A43	DEMOLISH EXISTING CONDENSER SERVING FREEZER.
A44	EXISTING EXHAUST AIR DUCTWORK AND ASSOCIATED RANGE HOOD TO BE DEMOLISHED.
A48	PROVIDE UNIT WITH 36" TALL PLENUM CURB WITH HORIZONTAL SUPPLY AND RETURN DUCT CONNECTIONS. MOUNT UNIT ON 4" CONCRETE PAD.
A49	CUT, PAINT, AND PATCH AS REQUIRED PER ARCHITECTURAL REQUIREMENTS.
A50	MOUNT E-5 APPROXIMATELY 7" ABOVE FINISHED FLOOR.
A51	PROVIDE LEGRAND V500 OR V700 SERIES WIRE MOLD FOR THERMOSTAT.

TAGGED NOTES

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H8	PAINT AND PATCH WALLS WHERE PREVIOUS CHASE IS DEMOLISHED PER ARCHITECTURAL REQUIREMENTS. REPAIR ANY FLOORING THAT IS EXPOSED FROM REPLACEMENT UNIT.
H9	DEMOLISH EXISTING HYDRONIC SUPPLY AND RETURN PIPING BACK TO MAIN AND CAP AIR AND WATER TIGHT.
H10	DEMOLISH EXISTING 3/4" CONDENSATE PIPING THAT ROUTES DOWN. SEAL ALL FLOOR PENETRATIONS. REPAIR AND PATCH PER ARCHITECTURAL REQUIREMENTS.
H13	HYDRONIC PIPING DOWN IN CHASE TO SERVE CHP-012 AND CHP-018. REFER TO CONSOLE HEAT PUMP DETAIL, SHEET M5.0.
H14	EXISTING 1-1/4" CONDENSATE PIPING UP.
H15	EXISTING 3/4" CONDENSATE PIPING TO STORM DRAIN TO BE DEMOLISHED.
H16	PROVIDE LITTLE GIANT EC-1-DV SERIES 10 FT HEAD CONDENSATE PUMP. CONDENSATE PUMP IS TO BE MOUNTED IN EXISTING CAVITY OF CONSOLE HEAT PUMP. CONDENSATE PUMP IS POWERED FROM HEAT PUMP.
H18	DEMOLISH EXISTING CONDENSATE THAT GOES DOWN TO UNDERSLAB. SAW CUT EXISTING FLOOR SLAB AND CAP EXISTING CONDENSATE PIPING AIR AND WATER TIGHT. REPAIR FLOOR SLAB TO MATCH EXISTING.
H19	1" CONDENSATE PIPING DOWN TO BASEMENT.
H20	1" CONDENSATE PIPING UP TO FLOOR ABOVE TO SERVE CHP-012 AND CHP-018.
H21	REFER TO CONSOLE HEAT PUMP DETAIL, SHEET M5.0.
H28	EXISTING 3/4" CONDENSATE PIPING ROUTING UP TO FLOOR ABOVE TO BE DEMOLISHED.
H31	PATCH AND REPAIR WALL AS REQUIRED TO MATCH EXISTING.
H33	SPILL CONDENSATE TO SPLASH BLOCK.
H34	3/4 CONDENSATE PIPING UP TO SERVE CHP-018 ON FLOOR ABOVE.
H35	3/4" CONDENSATE PIPING DOWN TO FLOOR BELOW.

GENERAL AIR DISTRIBUTION NOTES

A	REFER TO R,G,D RUNOUT SCHEDULE FOR R,G,D DUCT SIZE.
B	REFER TO TYPICAL BRANCH DUCT SUPPLY/OUTSIDE/RETURN/EXHAUST AIR DETAIL.
C	COORDINATE REGISTERS, GRILLES, AND DIFFUSERS WITH REFLECTED CEILING PLANS AND LIGHTING PLANS.
D	REFER TO AIR TERMINAL UNIT SCHEDULE FOR ALL RUNOUT SIZED OF VAV AND CAV BOXES.
E	COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL DRAWINGS. REFER TO SHEET S1.2.
F	COORDINATE WITH ARCHETECTURAL DRAWINGS WHEN PATCHING WALLS, FLOOR, ETC.

GENERAL HYDRONIC DESIGN NOTES

A	REFER TO HPS/SPR RUNOUT SIZES SCHEDULE ON THIS SHEET FOR CONDENSATE RUNOUT SIZES.
B	REFER TO HVAC CONTROLS SHEETS FOR ADDITIONALS INFORMATION ON THERMOSTATS AND CO2 SENSORS ON SHEETS M600-M603.
C	REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON M700.
D	COORDINATE ALL MECHANICAL EQUIPMENT AND HYDRONIC PIPING WITH STRUCTURAL DRAWINGS. REFER TO SHEET S2.1 FOR PENETRAITON DETAILS.

R,G,D RUNOUT SCHEDULE

MARK	DUCT OUTLET
E-1	6"ø
E-3	10"ø
E-5	14"X10"
R-2	8"ø
R-3	10"ø
R-4	12"ø
R-5	14"ø
S-1	6"ø
S-2	8"ø
S-3	10"ø
S-4	12"ø
T-1	SEE PLANS

HPS/HPR RUNOUT SIZES

MARK	CONDENSATE PIPE SIZE	HYDRONIC INLET PIPE SIZE
CAS-1	3/4"	-
CHP-012	3/4"	1"
CHP-018	3/4"	1-1/4"
CHP-018A	3/4"	1-1/4"
DOAS-1	3/4"	-
RTU-1	3/4	-
RTU-2	1-1/4"	-
SS-1	3/4"	-

KEY PLAN

SCALE: NTS

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MECHANICAL ALTERNATES #1 & #2
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FOR:
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BG# 19-262
Project No: 1904
Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

M3.3
MECHANICAL ALTERNATES #1 & #2
DATE ISSUED:
9/13/19

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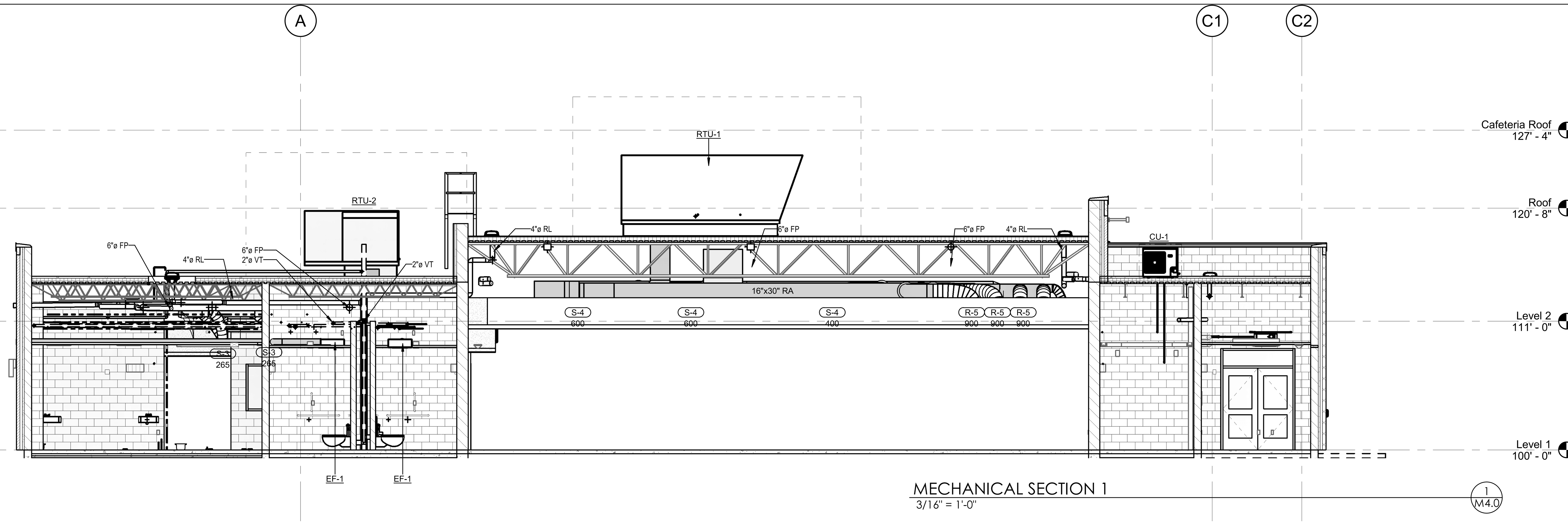
#	DATE	DESCRIPTION



MECHANICAL SECTION 1
3/16" = 1'-0"
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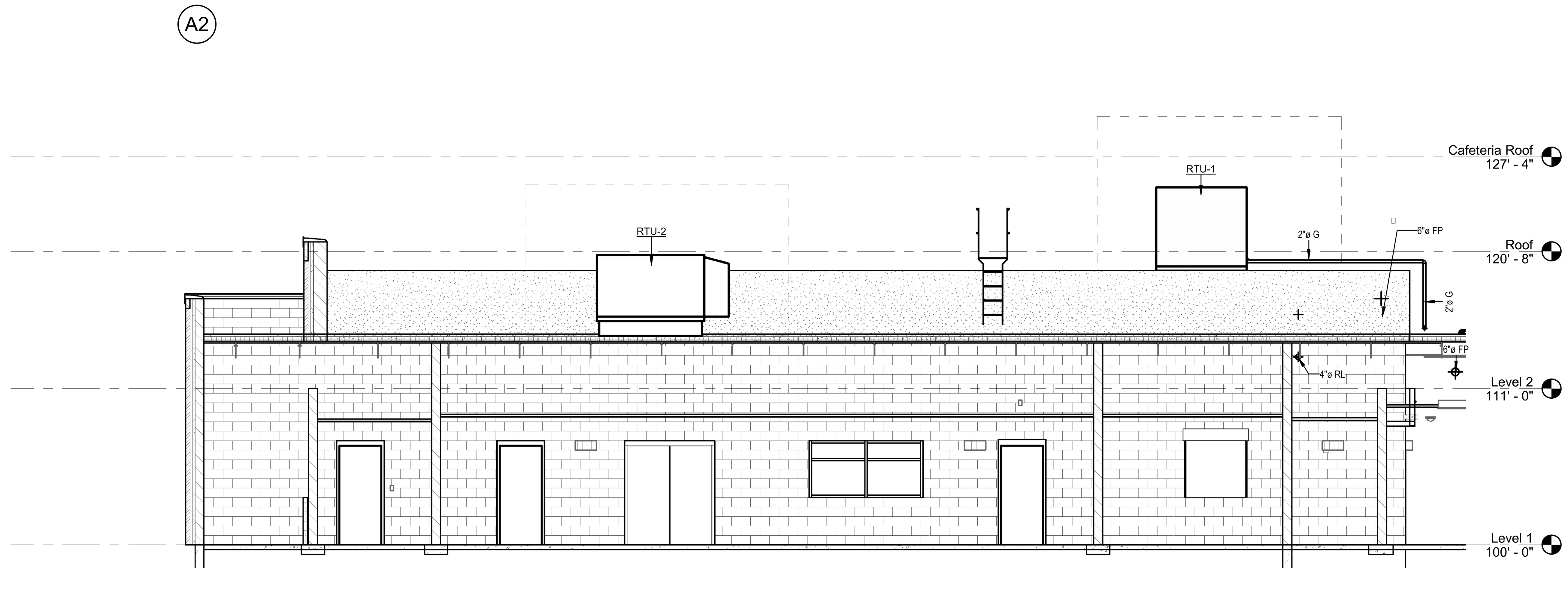
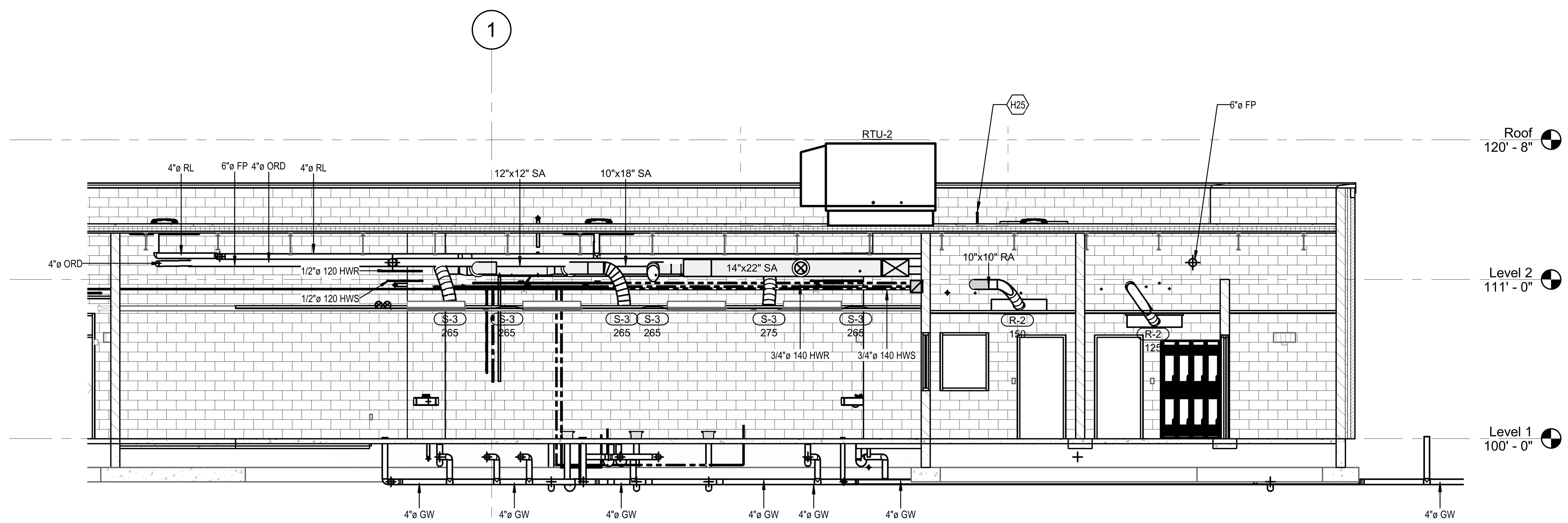
M4.0



MECHANICAL SECTION 2
3/16" = 1'-0"
2
M4.0



MECHANICAL SECTION 3
3/16" = 1'-0"
3
M4.0

GENERAL AIR DISTRIBUTION NOTES	
A	REFER TO R,G,D RUNOUT SCHEDULE FOR R,G,D DUCT SIZE.
B	REFER TO TYPICAL BRANCH DUCT SUPPLY/OUTSIDE/RETURN/EXHAUST AIR DETAIL.
C	COORDINATE REGISTERS, GRILLES, AND DIFFUSERS WITH REFLECTED CEILING PLANS AND LIGHTING PLANS.
D	REFER TO AIR TERMINAL UNIT SCHEDULE FOR ALL RUNOUT SIZED OF VAV AND CAV BOXES.
E	COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL DRAWINGS. REFER TO SHEET S1.2.
F	COORDINATE WITH ARCHETECTURAL DRAWINGS WHEN PATCHING WALLS, FLOOR, ETC.

GENERAL HYDRONIC DESIGN NOTES	
A	REFER TO HPS/SPR RUNOUT SIZES SCHEDULE ON THIS SHEET FOR CONDENSATE RUNOUT SIZES.
B	REFER TO HVAC CONTROLS SHEETS FOR ADDITIONALS INFORMATION ON THERMOSTATS AND CO2 SENSORS ON SHEETS M600-M603.
C	REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON M700.
D	COORDINATE ALL MECHANICAL EQUIPMENT AND HYDRONIC PIPING WITH STRUCTURAL DRAWINGS. REFER TO SHEET S2.1 FOR PENETRAITON DETAILS.

R,G,D RUNOUT SCHEDULE

MARK	DUCT OUTLET
E-1	6"ø
E-3	10"ø
E-5	14"X10"
R-2	8"ø
R-3	10"ø
R-4	12"ø
R-5	14"ø
S-1	6"ø
S-2	8"ø
S-3	10"ø
S-4	12"ø
T-1	SEE PLANS

HPS/HPR RUNOUT SIZES

MARK	CONDENSATE PIPE SIZE	HYDRONIC INLET PIPE SIZE
CAS-1	3/4"	-
CHP-012	3/4"	1"
CHP-018	3/4"	1-1/4"
CHP-018A	3/4"	1-1/4"
DOAS-1	3/4"	-
RTU-1	3/4	-
RTU-2	1-1/4"	-
SS-1	3/4"	-

TAGGED NOTES

##

H25	SPILL 3/4" CONDENSATE TO ROOF. PROVIDE TCC SERIES PIPE PENETRATION SYSTEM TO ACCOMMODATE GOOSENECK.

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MECHANICAL SECTIONS

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CONSTRUCTION DOCUMENTS

M4.0

MECHANICAL SECTIONS

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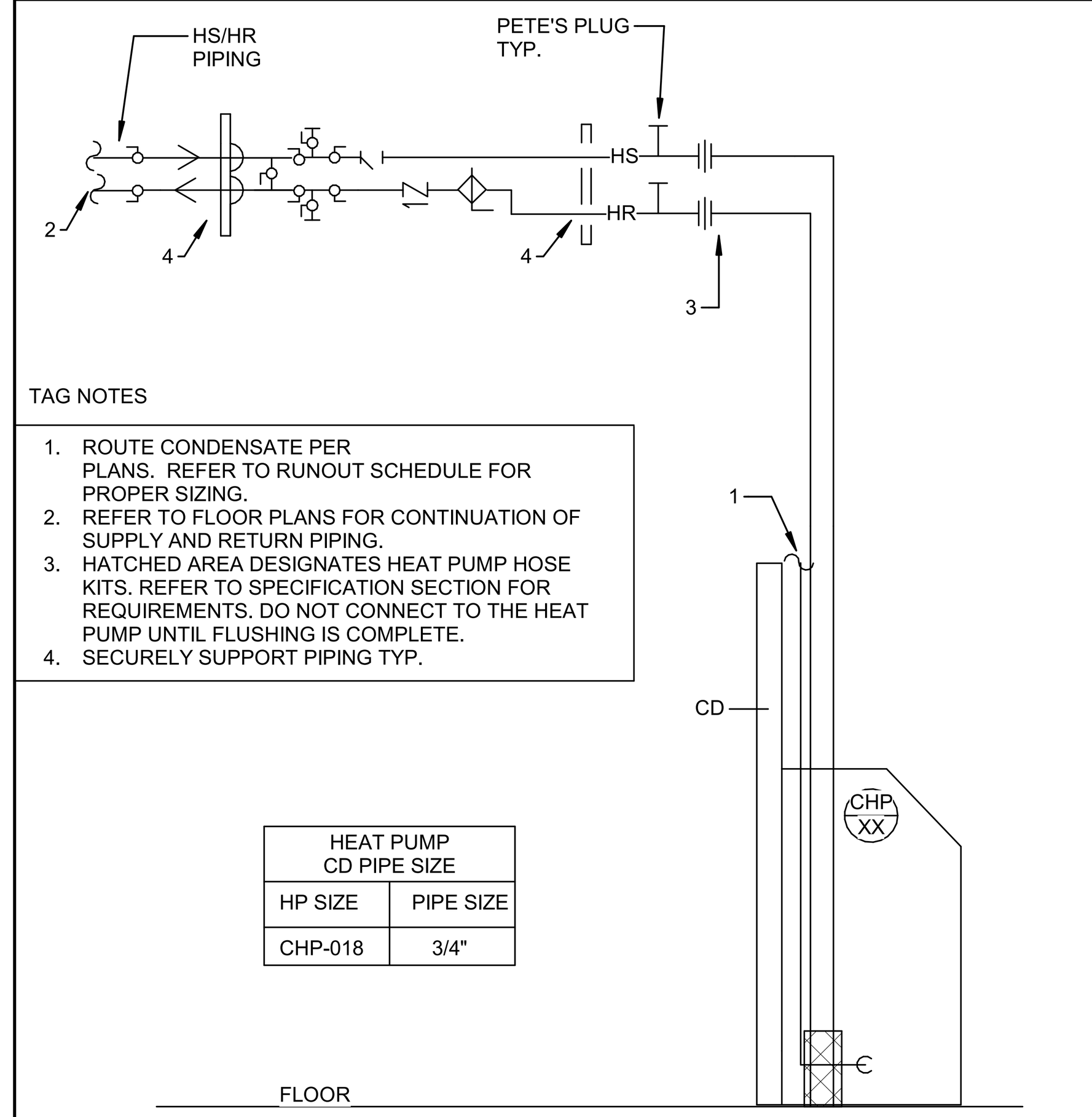
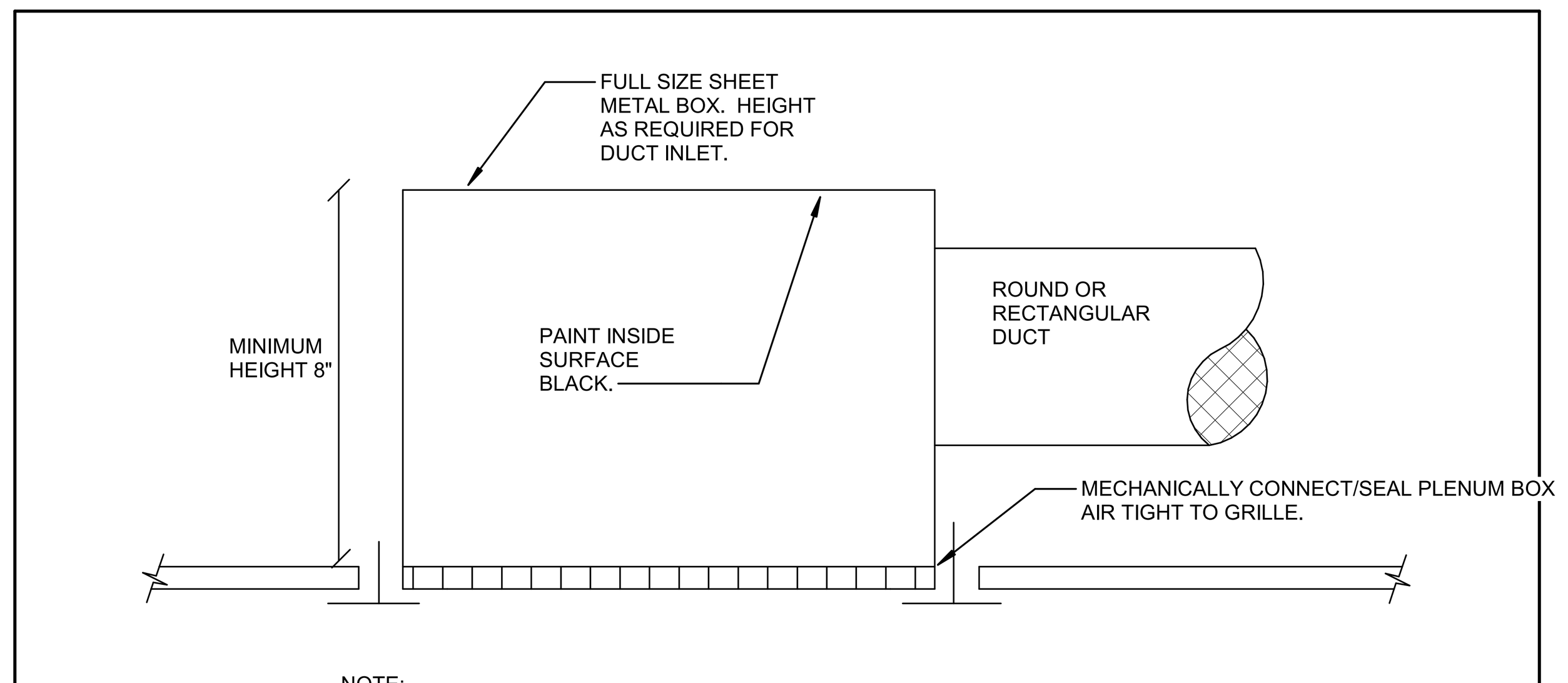


TAG NOTES

1. ROUTE CONDENSATE PER PLANS. REFER TO RUNOUT SCHEDULE FOR PROPER SIZING.
2. REFER TO FLOOR PLANS FOR CONTINUATION OF SUPPLY AND RETURN PIPING.
3. HATCHED AREA DESIGNATES HEAT PUMP HOSE KITS. REFER TO SPECIFICATION SECTION FOR REQUIREMENTS. DO NOT CONNECT TO THE HEAT PUMP UNTIL FLUSHING IS COMPLETE.
4. SECURELY SUPPORT PIPING TYP.

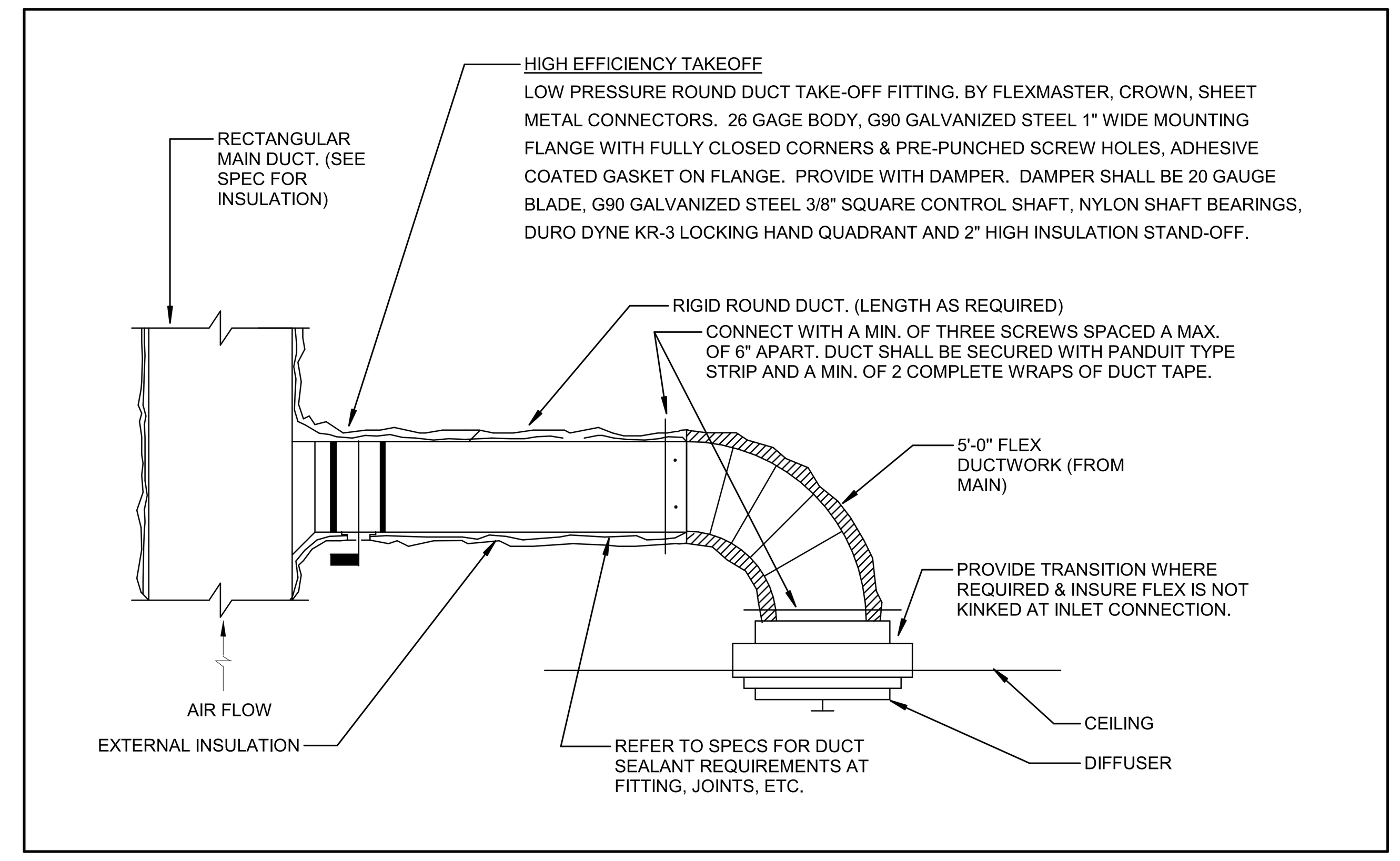
HEAT PUMP CD PIPE SIZE	
HP SIZE	PIPE SIZE
CHP-018	3/4"

CONSOLE HEAT PUMP INSTALLATION DETAIL 7/M5.0
NOT TO SCALE

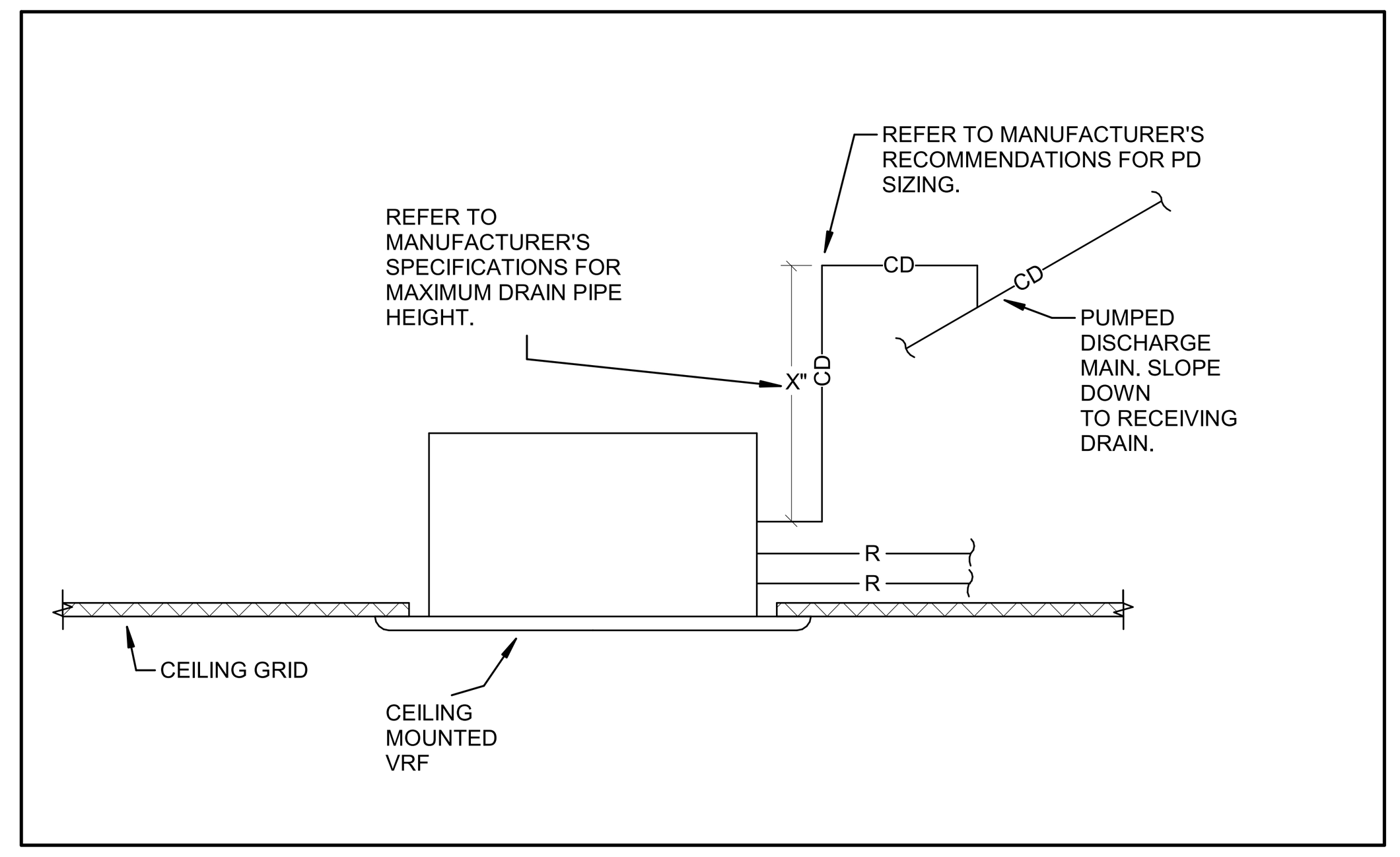


NOTE:
1. PROVIDE MANUAL VOLUME DAMPER IN ALL BRANCH RETURN AND EXHAUST DUCTS SERVING RETURN/EXHAUST GRILLES.
2. WHERE NOTED, RETURN GRILLES SHALL INCLUDE A HINGED FACE AND FILTER, TYPICAL FOR ALL HEAT PUMP RETURNS.

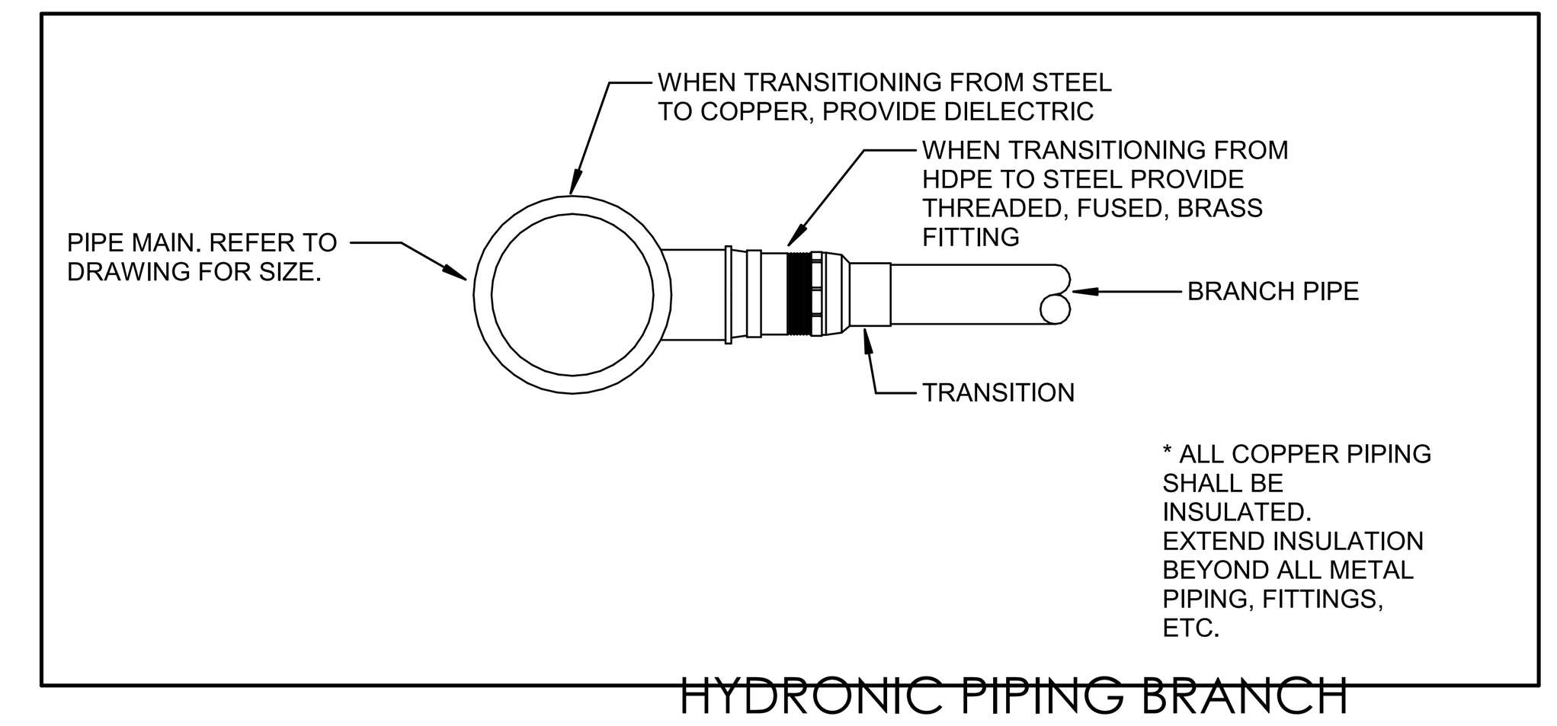
DUCTED RETURN/EXHAUST/RELIEF AIR GRILLE DETAIL 1/M5.0
NOT TO SCALE



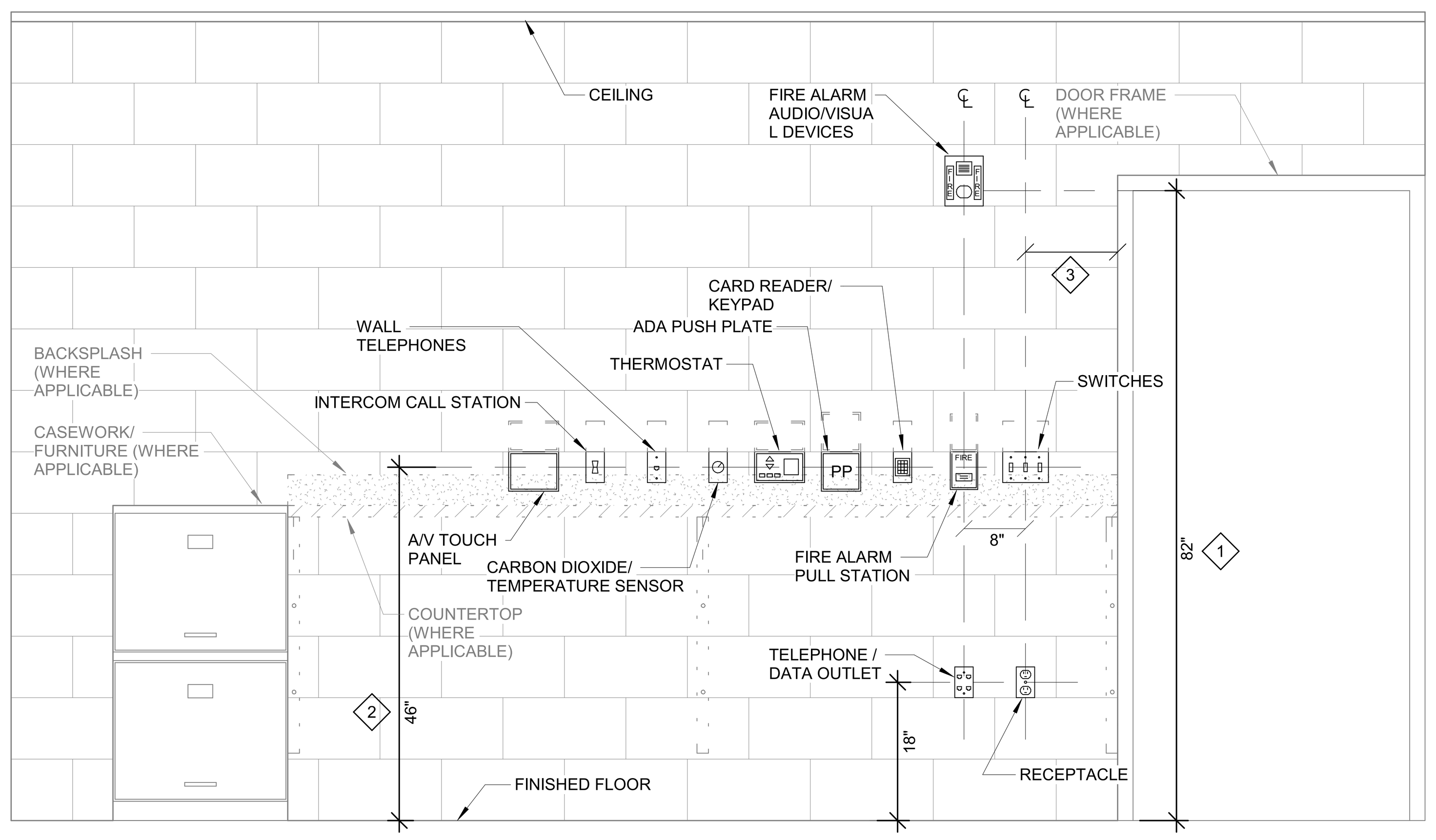
TYPICAL ROUND SUPPLY, RETURN, & EXHAUST BRANCH DUCT DETAIL 2/M5.0
NOT TO SCALE



VRV CASSETTE PIPING SCHEMATIC 3/M5.0
NOT TO SCALE



HYDRONIC PIPING BRANCH DETAIL 4/M5.0
NOT TO SCALE



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG CENTERLINE OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

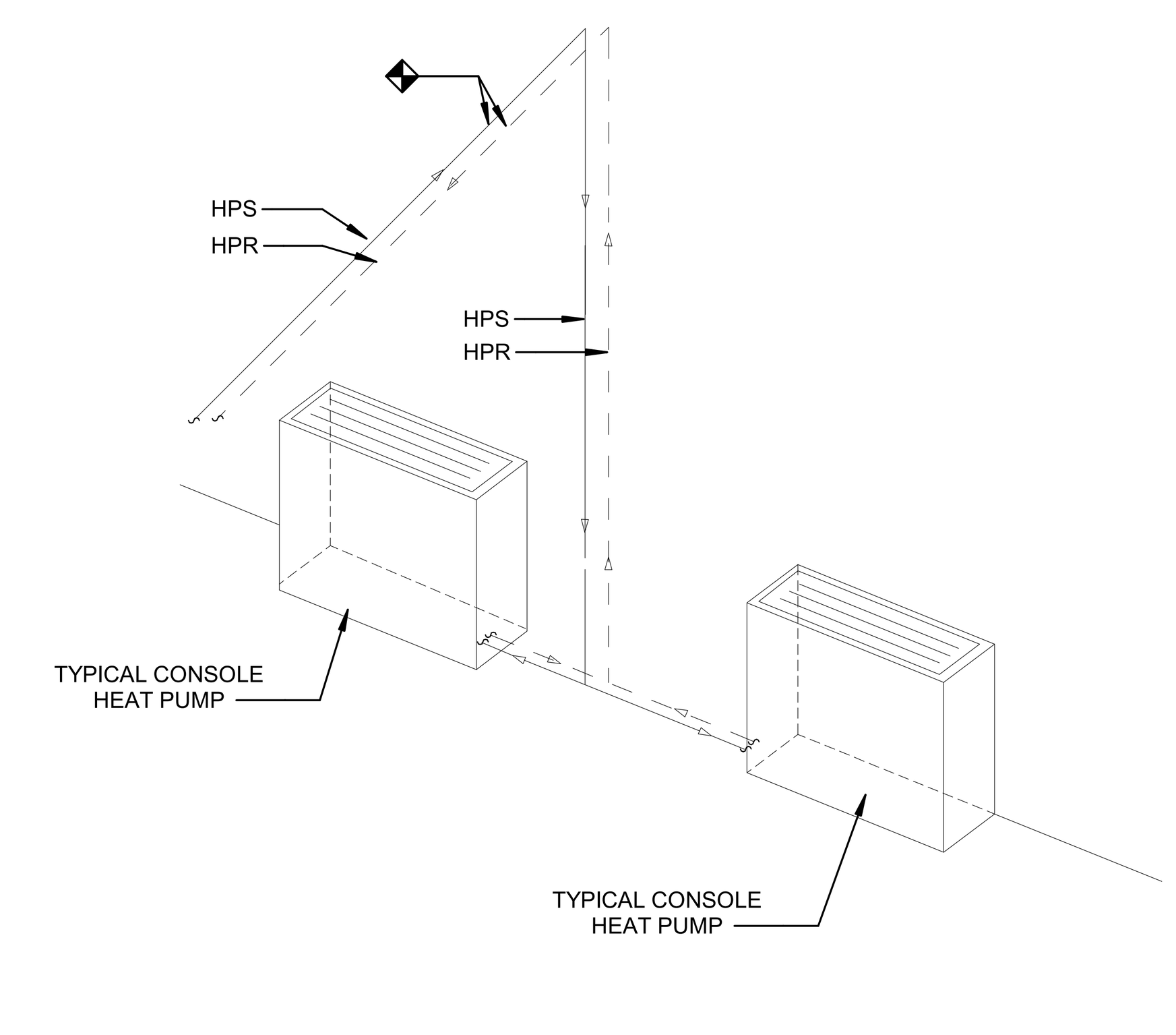
DEVICE MOUNTING DETAIL - KEY NOTES: X

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. WHENEVER THE TYPICAL DEVICE MOUNTING HEIGHT SHOWN CAUSES CONFLICT WITH A COUNTERTOP/BACKSPLASH, ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN BY THE DOTTED LINES. FOR NON-BLOCK WALLS ALIGN CENTERLINE OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.

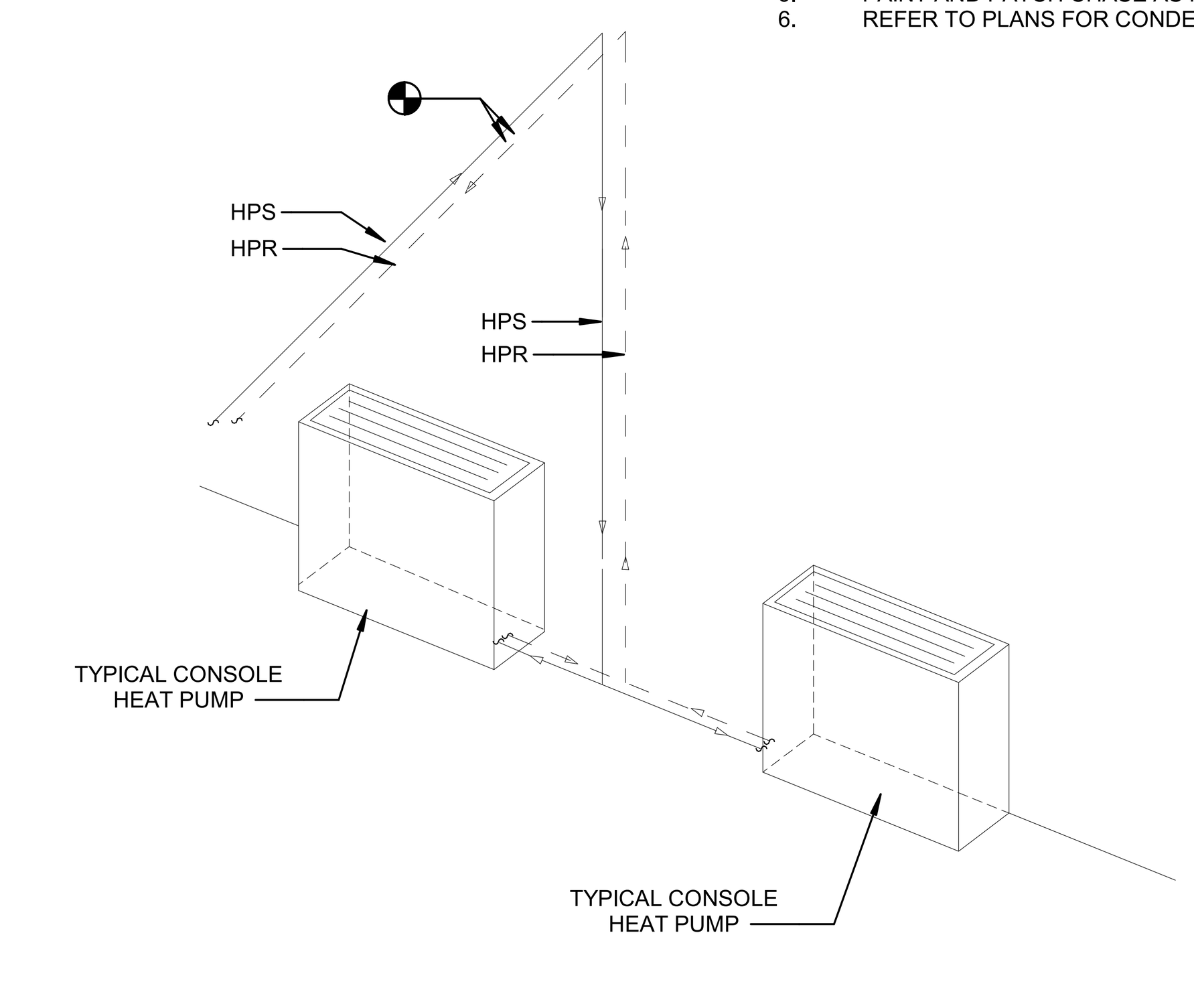
THERMOSTAT WALL SENSOR COORDINATION DETAIL
NTS

TYPICAL WALL DEVICE MOUNTING DETAIL 5/M5.0
3/4" = 1'-0"

REMARKS:
1. PAINT AND PATCH WALL AND REPAIR FLOOR TO MATCH EXISTING CONDITIONS WHERE REQUIRED.
2. CUT PIPE CHASE AS REQUIRED TO DEMOLISH EXISTING UNIT AND INSTALL NEW UNIT.
3. DEMOLISH ASSOCIATED THERMOSTAT.
4. EXISTING CONDENSATE SERVING UNIT SHALL BE USED FOR NEW UNIT REPLACEMENT.
5. PAINT AND PATCH CHASE AS REQUIRED.
6. REFER TO PLANS FOR CONDENSATE ROUTING.



TYPICAL CONSOLE HEAT PUMP DEMOLITION DETAIL
NOT TO SCALE



TYPICAL CONSOLE HEAT PUMP NEW WORK DETAIL
NOT TO SCALE

CONSOLE HEAT PUMP DETAIL 6/M5.0
1/8" = 1'-0"

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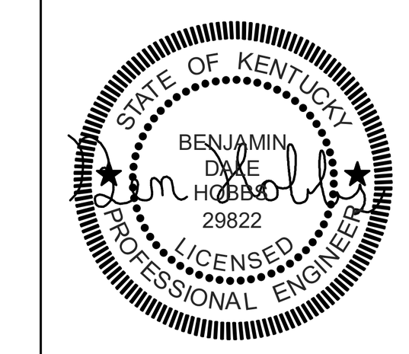

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MECHANICAL DETAILS
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BG# 19-262
Project No: 1904
Drawn By: Author
Rev'd By: Checker

SHEET RELEASE		
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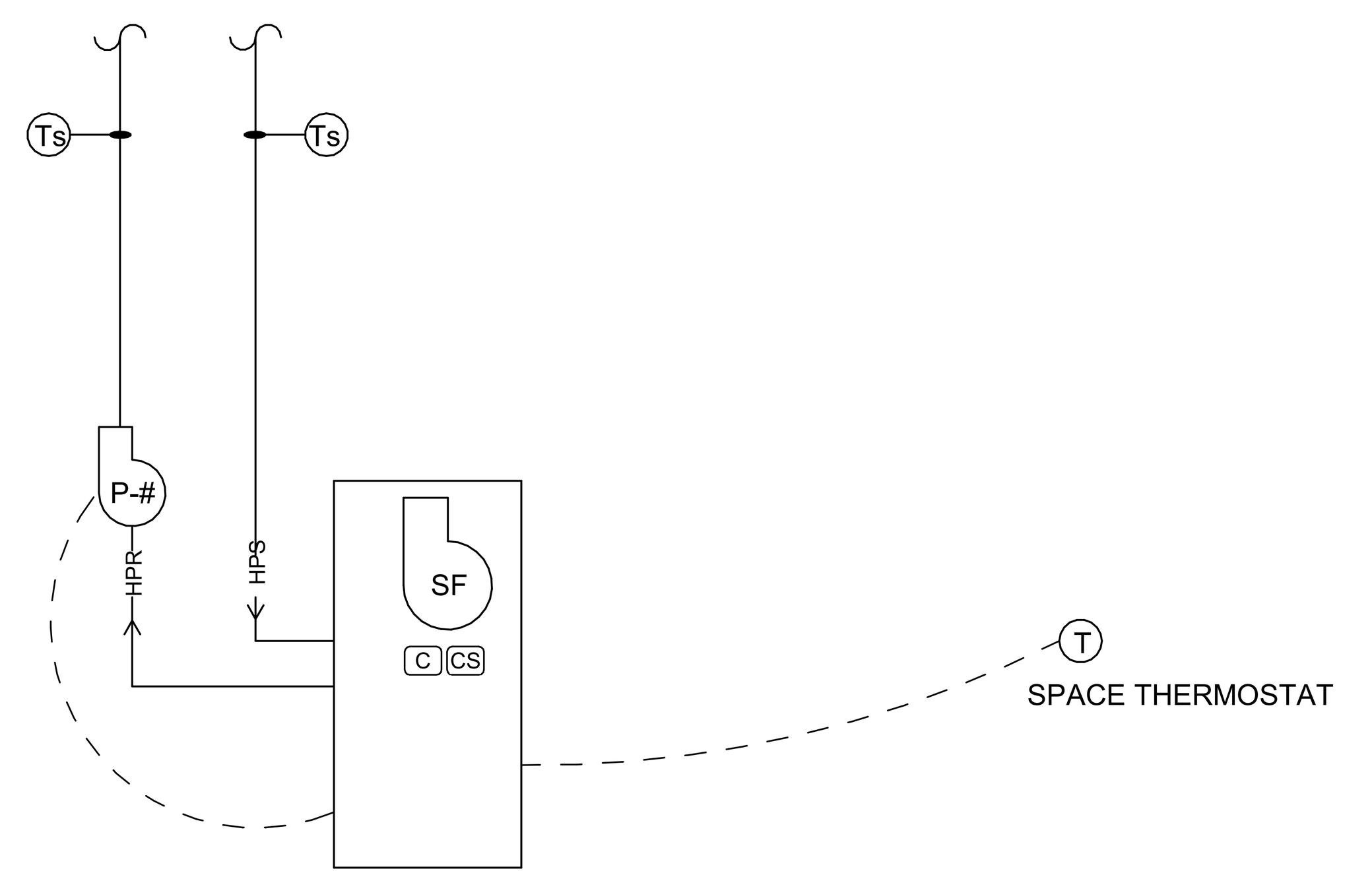
CONSTRUCTION DOCUMENTS

M5.0
MECHANICAL DETAILS
DATE ISSUED: 9/13/19

REVISIONS		
#	DATE	DESCRIPTION

WATER SOURCE CONSOLE HEAT PUMP



SINGLE STAGE WATER SOURCE CONSOLE HEAT PUMP

Sequence of Operations
SINGLE STAGE WATER SOURCE HEAT PUMPS

Building Automation System Interface:
The Building Automation System (BAS) shall send the **field installed controller** Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied Mode:
During occupied periods, the supply fan shall run when temperature drifts outside the 2 degree setpoint offset and thusly there is a call for heating/cooling until thermostat setpoint is satisfied. The DX heating and cooling shall stage to maintain the occupied space temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start and the DX heating shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the DX heating shall be disabled.
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass:
The BAS shall monitor the status of the “on” and “cancel” buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall use space temperature and space temperature setpoint to determine when to stage the cooling. When the space temperature rises above the setpoint, the unit controller shall stage the DX cooling as required to maintain the space temperature setpoint. When the space temperature falls below the setpoint the controller shall disable DX cooling.

Heating Mode:
The unit controller shall use the space temperature and space temperature setpoint to determine when to initiate requests for heat. When the space temperature drops below the setpoint, the unit controller shall enable DX heating to maintain the space temperature setpoint. Once the space temperature rises above the setpoint the DX heating shall be disabled.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and when temperature set point is not satisfied. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 30 seconds (adj.) after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall stop, requiring a manual reset.

Filter Timer:
The fan-run time (hrs) shall be compared to the filter maintenance timer setpoint. Once the setpoint is reached a filter timer alarm diagnostic shall be annunciated at the BAS. When the diagnostic is cleared, the filter-maintenance timer is reset to zero, and the timer begins accumulating fan-run time again.

Smoke Detector:
Provide a smoke detector in BOTH supply and return of all ducts serving heat pumps that provide 2000 CFM of supply air or greater.

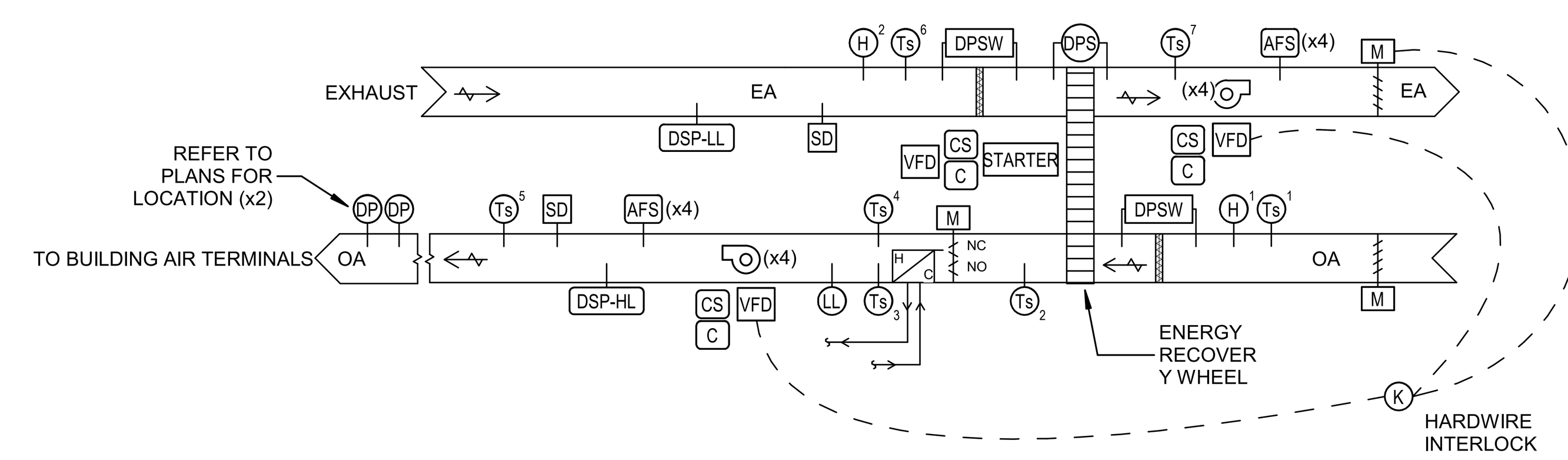
SINGLE STAGE WATER SOURCE CONSOLE HEAT PUMP CONTROLS POINTS

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
PUMP START/STOP	P_RUN_C		X						YES
PUMP START/STOP OVERIDE	P_RUN_C_OVRD			X					YES
PUMP STATUS	P_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
DISCHARGE AIR TEMPERATURE LOCAL	SA_T				X			OUT OF RANGE	YES
ENTERING WATER TEMPERATURE LOCAL	EWT_T				X				YES
LEAVING WATER TEMPERATURE LOCAL	LWT_T				X				YES
SPACE TEMPERATURE LOCAL	ST_LOCAL				X				YES
SPACE TEMPERATURE SETPOINT LOCAL	ST_STP_LOCAL				X				YES
COMPRESSOR 1 STATUS	COMP_S	X							YES
CONDENSATE OVERFLOW DETECTION LOCAL	COND_ALM	X						BOOLEAN CHANGE OF STATUS	YES
SUPPLY FAN STATUS LOCAL OPEN	SA_FAN_S	X						BOOLEAN COMMAND FAIL	YES
COMPRESSOR 1 START/STOP	COMP_C		X						YES
SUPPLY FAN START/STOP	SA_FAN_C		X						YES
OCCUPANCY SCHEDULE	OCC_SCHD						X		YES
OCCUPIED COOLING SETPOINT	OCC_CLG_STP						X		YES
OCCUPIED HEATING SETPOINT	OCC_HTG_STP						X		YES
OCCUPIED STANDBY COOLING SETPOINT	OCC_STBY_CLG_STP						X		YES
OCCUPIED STANDBY HEATING SETPOINT	OCC_STBY_HTG_STP						X		YES
UNOCCUPIED COOLING SETPOINT	UNOCC_CLG_STP						X		YES
UNOCCUPIED HEATING SETPOINT	UNOCC_HTG_STP						X		YES
OCCUPIED BYPASS TIMER	OCC_BYP_OVRD						X		
SETPOINT OFFSET	STP_T_OFFSET						X		
COMPRESSOR ENABLE	COMP_ENBL						X		
FAN MODE COMMAND	FAN_MODE						X		
APPLICATION MODE	APP_MODE						X		
EFFECTIVE OCCUPANCY	EFF_OCC						X		YES
EFFECTIVE HEAT/COOL MODE	EFF_HTG_CLG_MODE						X		YES
EFFECTIVE SPACE TEMPERATURE	EFF_SPACE_T						X		YES
EFFECTIVE SPACE SETPOINT	EFF_SPACE_STP						X		
LOCAL SETPOINT	LOC_STP						X		YES
HEAT OUTPUT	HTG_OP						X		YES
COOL OUTPUT	CLG_OP						X		YES
ALARM	ALARM						X		YES
SPACE HEATING/COOLING SETPOINT	SPACE_HTG_CLG_STP						X		
MAINTENANCE REQUIRED	MAINT_REQ_ALARM						X		YES

MECHANICAL CONTROL LEGEND

AFF	ABOVE FINISHED FLOOR
BAS	BUILDING AUTOMATION SYSTEM
CO_2	CARBON DIOXIDE
TCC	TEMPERATURE CONTROL CONTRACTOR
DP	DEWPOINT
EA	EXHAUST AIR PATH
RA	RETURN AIR PATH
SA	SUPPLY AIR PATH
HPS/R	HEAT PUMP WATER SUPPLY/RETURN
NC	NORMALLY CLOSED
OA	OUTSIDE AIR PATH
OCC	OCCUPANCY
PRESS	PRESSURE
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
VFD	VARIABLE FREQUENCY DRIVE
RH	RELATIVE HUMIDITY
MAU	MAKE-UP AIR UNIT
O/H	OCCUPIED HEATING SETPOINT
O/C	OCCUPIED COOLING SETPOINT
U/H	UNOCCUPIED HEATING SETPOINT
U/C	UNOCCUPIED COOLING SETPOINT
K	EMERGENCY HVAC/VENTILATION KILL BUTTON
Ta	AVERAGING TEMPERATURE SENSOR

Ts	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
LL	LOW LIMIT TEMPERATURE SENSOR
P	PRESSURE SENSOR
DP	DUCT STATIC PRESSURE
DPSW	DIFFERENTIAL PRESSURE SWITCH
DPS	DIFFERENTIAL PRESSURE SENSOR
C	START/STOP COMMAND
M	MOTORIZED DAMPER
F	FLOW METER
CS	CURRENT SENSOR
SD	DUCT SMOKE DETECTOR
COS	CONDENSATE OVERFLOW SENSOR
DSP-HL	DUCT STATIC PRESSURE - HIGH LIMIT
DSP-LL	DUCT STATIC PRESSURE - LOW LIMIT
ZN-DP	ZONE DEW POINT
ZN-CO2	ZONE CARBON DIOXIDE SENSOR
ZN-OCC	ZONE OCCUPANCY SENSOR
ZN-T	ZONE TEMPERATURE SENSOR
CO2	AVERAGING TEMPERATURE SENSOR
(fan symbol)	CENTRIFUGAL FAN
AFS	AIR FLOW MONITORING STATION
VFD	VARIABLE FREQUENCY DRIVE



OUTSIDE AIR SYSTEM (DOAS-1) SCHEMATIC

NOT TO SCALE

OUTSIDE AIR SYSTEMS:

1. THERE IS ONE OUTSIDE AIR UNIT THAT SERVES THIS FACILITY.
2. THE SYSTEM SHALL OPERATE UNDER THE CONTROL OF A LOCAL, STAND-ALONE MICROPROCESSOR BASED DDC CONTROLLER.
3. THE SYSTEM SHALL BE PLACED INTO THE OCCUPIED/UNOCCUPIED MODE BASED UPON THE USER ADJUSTABLE SCHEDULE AT THE NETWORK CONTROLLER. THESE SYSTEMS SHALL BE IN THE OCCUPIED MODE DURING REGULAR SCHOOL HOURS ONLY. SEE BUILIDNG OCCUPANCY SCHEDULE.
4. IF COMMUNICATION IS LOST BETWEEN THE NETWORK CONTROLLER AND THE OUTISDE AIR SYSTEM CONTROLLER, THEN THE OUSIDE AIR SYSTEM SHALL BE PLACED INTO THE UNOCCUPIED MODE UNTIL COMMUNICATION IS RESTORED.
5. THE SYSTEM WILL BE PLACED INTO A MODE OF OPERATION BASED UPON THE FOLLOWING ADJUSTABLE TERMPERATURE SCHEDULE:

OUTSIDE AIR TEMPERATURE	MODE OF OPERATION
78 DEG F OR GREATER (ADJ.)	COOLING MODE
BETWEEN 50 DEG F AND 78 DEG F (ADJ.)	ECONOMIZER MODE
50 DEG F OR LESS (ADJ.)	HEATING MODE

6. IN THE UNOCCUPIED MODE OR FREEZESTAT (LOW LIMIT SET AT 36 DEGREES F) MODE:
   - THE SUPPLY FAN AND EXHAUST SHAL BE OFF,
   - THE ENERGY RECOVERY WHEEL SHALL BE OFF,
   - THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE FULLY CLOSED,
   - FACE AND BYPASS DAMPER SHALL BE IN FULL FACE POSITION.
7. WHEN PLACED INTO THE OCCUPIED MODE, THE FOLLOWING SHALL OCCUR IN SEQUENTIAL ORDER AFTER OPERATION OF THE WATER-TO-WATER HEAT PUMP SYSTEM HAS BEEN PROVED:
   - THE ENERGY RECOVERY WHEEL SHALL START AND OPERATION SHALL BE PROVED VIA CURRENT SWITCH,
   - THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL FULLY OPEN AND BE PROVED VIA END SWITCH,
   - THE SUPPLY FAN/VFD AND EXHAUST FAN/VFD SHALL START AND OPERATION SHALL BE PROVED VIA CURRENT SWITCH,
   - THE SYSTEM SHALL NOT START IF ANY ONE COMPONENT DOES NOT PROVE OPERATION, INCLUDING THE HYDRONIC WATER-TO-WATER HEAT EXCHANGER SYSTEM
8. IN THE OCCUPIED MODE, THE FACE AND BYPASS DAMPERS SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE (ADJ.) BASED UPON THE FOLLOWING SCHEDULE:

DISCHARGE AIR TEMPERATURE	MODE OF OPERATION
68 DEG F (ADJ.)	COOLING MODE
VARIES	ECONOMIZER MODE
65 DEG F (ADJ.)	HEATING MODE

(NOTE THAT THERE SHOULD BE NOT BE MORE THAN APPROXIMATELY 60% AIRFLOW NECESSARY ACROSS THE COOLING/HEATING COIL TO MAINTAIN REQUIRED DISCHARGE AIR TEMPERATURE. SET DAMPER ACTUATOR CONTROL ACCORDINGLY.)

9. IN ECONOMIZER MODE BOTH THE FACE AND BYPASS SHALL BE FULL OPEN. THE ENERGY RECOVERY WHEEL SHALL BE OFF. THE WATER - TO -WATER HEAT PUMP SYSTEM SHALL REMAIN OFF. THE COOLING/HEATING COIL SHALL BE OFF. THE FANS SHALL REMAIN ON.
10. DEHUMIDIFICATION MODE: WHEN THE DUCT-MOUNTED EXHAUST AIR RELATIVE HUMIDITY SENSOR READS 65% OR GREATER, ENERGY RECOVERY WHEEL SHALL BE ON AND THE UNIT SHALL BE PLACED INTO COOLING MODE UNTIL EXHAUST AIR RELATIVE HUMIDITY IS BELOW 60%.
11. THE SUPPLY FAN SHALL BE CONTROLLED BY THE VFD BASED ON FIELD-MOUNTED DUCT PRESSURE SETPOINT. FAN SUPPLY STATIC PRESSURE OPTIMIZATION SHALL BE UTILIZED BY POLLING OF ASSOCIATED VAV/CAV BOX DAMPER POSITIONS AND RESETTING OF PRESSURE SETPOINT AS ALLOWED. DDC SYSTEM DETERMINES VAV BOX WITH GREATEST DAMPER OPEN POSITION ONCE EVERY TEN MINUTES. DETERMINE IN THE FIELD WITH THE TAB CONTRCTOR THE STATIC PRESSURE SETPOINT TO OBTAIN ACCEPTABLE AIRFLOW AS DESIGNED. (X2) DUCT STATIC PRESSIRE SENSORS SHALL BE PROVIDED. SUPPLY FANS SHALL WORK TO SATISFY WORSE CASE DUCT STATIC SENSOR SUCH THAT BOTH DUCT STATIC SENSOR SETPOINTS ARE SATISFIED.
12. HARDWARE INTERLOCK SUPPLY FAN, EXHAUST FAN, AND ISOLATION DAMPERS WITH EMERGENCY HVAC/VENTILATION KILL BUTTON. CLEARLY LABEL BUTTON.
13. THE EXHAUST FAN SHALL TRACK THE OUTSIDE AIR FAN VIA AN AIRFLOW MONITORING STATION AND SHALL MAINTAIN A 2,500 CFM OFFSET TO MAINTAIN A POSITIVE BUILDING PRESSURIZATION.
14. THE COIL IS A FULL FLOW COIL WITH FACE AND BYPASS DAMPER CONTROL FOR FREEZE PROTECTION AND DEHUMIDIFICATION CONTROL. LOW TEMPERATURE CUTOUT IS LOCATED ON THE DISCHARGE OF THE COIL AND SHALL BE ACTIVATE WHEN THE LEAVING AIR TEMPERATURE FALLS BELOW 36 DEG F. THE SUPPLY AND EXHAUST FANS SHALL STOP, OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE, AND DUAL TEMPERATURE WATER PUMP SHALL BE ENABLED TO RUN UNTIL ALARM IS RESET. DURING LOW TEMPERATURE CUTOUT THE WATER TO WATER HEATPUMP SHALL CONTINUE TO OPERATE TO MAINTAIN 100 DEGREE F HEATING WATER IF AVAILABLE.
15. VFD DEFROST CONTROL-WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 5 DEGREES F (ADJ.). THE ENERGY WHEEL SHALL SLOW TO 25% OF DESIGN SPEED FOR A PERIOD OF 3 MINUTES, IT SHALL DO THIS EVERY 60 MINUTES.
16. A MANUAL RESET LOW LIMIT INSTALLED DOWNSTREAM OF THE CHILLED/HOT WATER COIL SHALL STOP THE OPERATION OF THE SYSTEM IF THE DISCHARGE TERMPATURE FALLS BELOW 36 DEG F.
17. A SMOKE DETECTOR SHALL BE LOCATED IN THE EXHAUST AND SUPPLY AIR SYSTEM. IF SMOKE IS DETECTED, THEN THE SYSTEM SHALL SHUTOFF AND AN AUDIO/VISUAL ALARM SHALL ACTIVATE. UPON CORRECTION OF PROBLEM, THE SYSTEM SHALL BE RESET AND SHALL RETURN TO NORMAL OPERATION. COORDINATE WITH FIRE ALARM SYSTEM. ANY ACTIVATION OF THE BUILDING'S FIRE ALARM SYSTEM SHALL SHUTDOWN THE OA UNIT COMPLETELY.
18. COOLING/HEATING COIL TEMPERATURE MODULATION CONTROL: THE WWHP SYSTEM WILL BE PROVIDED WITH LEAD-LAG VARIABLE SPEED ECM PUMPS ON THE DUAL TEMPERATURE LOOP THAT WILL SERVE THE OA-1 UNIT.
COOLING: OA-1 WILL CONTROL THE SPEED OF THE ECM PUMPS WITH A 0-10V OUTPUT IN ORDER TO ACHIEVE PROGRAMMED DISCHARGE AIR TEMPERATURE OF 55 DEGREES F AND MODULATE THE VOLUME OF CHILLED WATER FLUID PASSING THROUGH THE COIL.
HEATING: ECM PUMP SHALL BE CONSTANT VOLUME AND SET TO A SPEED TO ACHIEVE DESIGN FLOW THROUGH COIL (115 GPM). A THREE WAY VALVE WILL BE MODULATED TO CONTROL HOT WATER TEMPERATURE BEING DELIVERED TO DUAL TEMPERATURE COIL IN ORDER TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 90 DEGREES F.

DOAS-1 POINTS LIST

DISPLAY NAME	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
FAN 3 OA AIR CFM	OAFAN3_AF_CFM				X			OUT OF RANGE	YES
FAN 4 OA AIR CFM	OAFAN4_AF_CFM				X			OUT OF RANGE	YES
FAN 3 EA AIR CFM	OAFAN3_AF_CFM				X			OUT OF RANGE	YES
FAN 4 EA AIR CFM	OAFAN4_AF_CFM				X			OUT OF RANGE	YES
BUILDING STATIC PRESSURE (X2)	BLDG_SP				X			OUT OF RANGE	YES
DUAL TEMP MODULATING ECM PUMP SPEED	DT_PUMP_SPD					X		BOOLEAN COMMAND FAIL	YES
DUAL TEMP MODULATING ECM PUMP OVERIDE	DT_PUMP_SPD_OVRD						X		YES
DEHUMIDIFICATION SETPOINT	OA_DHUM_SPT						X		YES
OA INTAKE HUMIDITY SENSOR 1	OA_HUM_S_1				X				YES
EA DISCHARGE HUMIDITY SENSOR 2	EA_HUM_S_2				X				YES
OA INTAKE DAMPER	OA_INT_DAMP_C					X		BOOLEAN COMMAND FAIL	YES
OA INTAKE DAMPER STATUS	OA_INT_DAMP_ST	X							YES
OA INTAKE DAMPER OVERIDE	OA_INT_DAMP_OVRD						X		YES
EA RELIEF DAMPER	EA_INT_DAMP_C					X		BOOLEAN COMMAND FAIL	YES
EA RELIEF DAMPER STATUS	EA_INT_DAMP_ST	X							YES
EA RELIEF DAMPER OVERIDE	EA_INT_DAMP_OVRD						X		YES
OUTSIDE AIR TEMPERATURE SENSOR 1	OA_TEMP_S_1				X				YES
OUTSIDE AIR TEMPERATURE SENSOR 2	OA_TEMP_S_2				X				YES
OUTSIDE AIR H/C TEMPERATURE SENSOR 3	OA_TEMP_S_3				X				YES
OUTSIDE AIR BYPASS TEMPERATURE SENSOR 4	OA_TEMP_S_4				X				YES
OUTSIDE AIR TEMPERATURE SENSOR 5	OA_TEMP_S_5				X				YES
OUTSIDE AIR T3/T4 AVERAGE TEMPERATURE	OA_TEMP_S_AVG_3&4						X		YES
OA PREFILTER STATUS	OA_FLTR_DP_S				X			OUT OF RANGE	YES
OA INTAKE HUMIDITY SENSOR 1	OA_RH_S				X				YES
MODULATING FACE AND BYPASS DAMPER	OA_FBYP_DAMPER					X			YES
LOW LIMIT FREEZE STAT	LL-FRZ_STAT	X						OUT OF RANGE	YES
SCHEDULE	OCC_S			X					YES
OA FANS START/STOP	OAFAN_RUN_C		X					BOOLEAN COMMAND FAIL	YES
OA FANS START/STOP OVERRIDE	OAFAN_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
OA FANS STATUS	OAFAN_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
OA FANS VFD FAULT	OAFAN_VFDFLT_S	X						BOOLEAN CHANGE OF STATUS	YES
OA FANS VFD SPEED	OAFAN_VFD_SPD_C					X			YES
OA FANS VFD SPEED OVERRIDE	OAFAN_VFD_SPD_OVRD						X		YES
FAN 1 OA AIR CFM	OAFAN1_AF_CFM				X			OUT OF RANGE	YES
FAN 2 OA AIR CFM	OAFAN2_AF_CFM				X			OUT OF RANGE	YES
OA TOTAL CFM	OA_AF_CFM_TOTAL				X				YES
OA SMOKE DETECTOR	OA_SMOKE_DET	X						BOOLEAN CHANGE OF STATUS	YES
OA STATIC PRESSURE	OA_SP_S				X				YES
OA STATIC PRESSURE SETPOINT	OA_SP_SETP						X		YES
OA STATIC PRESSURE RESET SETPOINT	OA_SP_RESET_SETP						X		YES
OCCUPIED COOLING SETPOINT	OCC_CLG_SETP						X		YES
OCCUPIED HEATING SETPOINT	OCC_HTG_SETP						X		YES
DUCT STATIC PRESSURE HIGH LIMIT	OA_DSP_HL	X						OUT OF RANGE	YES
DUCT STATIC PRESSURE LOW LIMIT	EA_DSP_LL	X						OUT OF RANGE	YES
UNOCCUIPIED BUILDING WARMUP HEATING SETPOINT	UNOCC_WARMUP_HTG_SETP						X		YES
EA SMOKE DETECTOR	EA_SMOKE_DET	X						BOOLEAN COMMAND FAIL	YES
EXHAUST AIR TEMPERATURE SENSOR 6	EA_TEMP_S_6				X				YES
EXHAUST AIR TEMPERATURE SENSOR 7	EA_TEMP_S_6				X				YES
EA PREFILTER STATUS	EA_FLTR_DP_S				X			OUT OF RANGE	YES
ENERGY RECOVERY WHEEL DIFF. PRESS. SENSOR	ERW_DP_S				X			OUT OF RANGE	YES
ENERGY RECOVERY WHEEL START/STOP	ERW_RUN_C		X					BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL START/STOP OVERIDE	ERW_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL STATUS	ERW_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL FREEZE CONTROL	ERW_FRZ_C			X					YES
EA FANS START/STOP	EAFAN_RUN_C					X		BOOLEAN COMMAND FAIL	YES
EA FANS START/STOP OVERRIDE	EAFAN_RUN_OVRD						X	BOOLEAN COMMAND FAIL	YES
EA FANS STATUS	EAFAN_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
EA FANS VFD FAULT	EAFAN_VFDFLT_S	X						BOOLEAN CHANGE OF STATUS	YES
EA FANS VFD SPEED	EAFAN_VFD_SPD_C					X			YES
EA FANS VFD SPEED OVERRIDE	EAFAN_VFD_SPD_OVRD						X		YES
FAN 1 EA AIR CFM	EAFAN1_AF_CFM				X			OUT OF RANGE	YES
FAN 2 EA AIR CFM	EAFAN2_AF_CFM				X			OUT OF RANGE	YES
EA TOTAL CFM	EA_AF_CFM_TOTAL						X		YES
SUM OF CONNECTED TERMINAL UNITS	TERM_UNIT_CFM_TOTAL						X		YES

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MECHANICAL CONTROLS

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Drawn By: Author
Rev'd By: Checker

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CONSTRUCTION DOCUMENTS

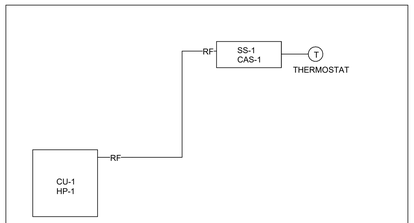
M6.0

MECHANICAL CONTROLS

DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION



VRV AND SPLIT SYSTEM CONTROLS SCHEMATIC

NOT TO SCALE

1. VRV AND SPLIT SYSTEM SS-1 AND CAS-1

1.1. These units shall be provided with factory controls. The DDC system shall monitor space temperature and provide a high temperature alarm. Provide all necessary wiring conduit, etc. as required to interlock the DDC thermostat with unit and condensing unit. Rooms shall have space temperature and the split system shall control to maintain space a minimum of 72°F (adj.).

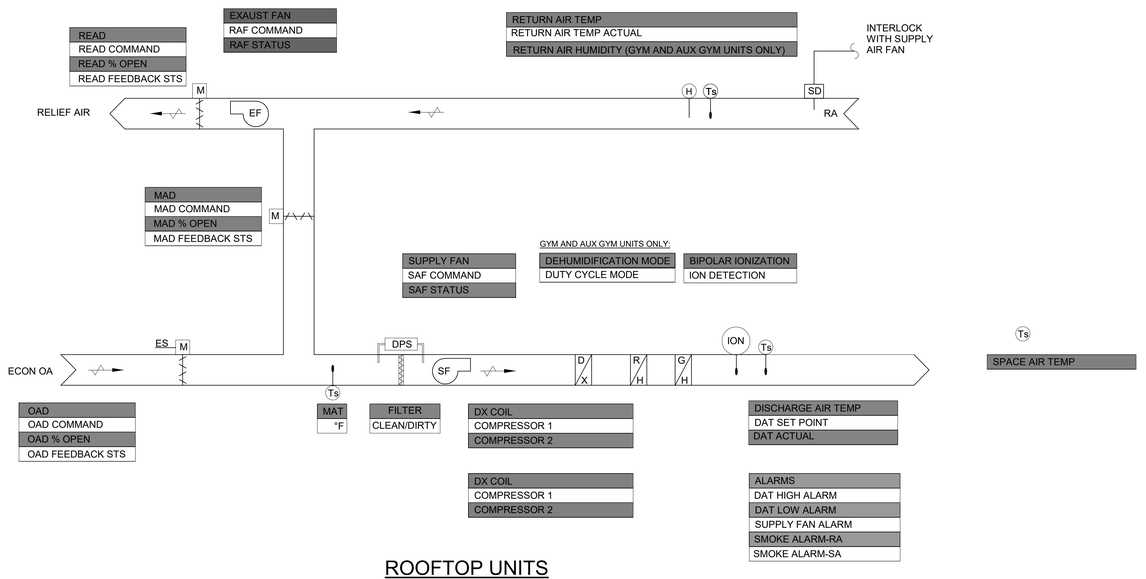
1.2. The DDC system shall have the ability to start and stop the split system. These shall be provided with a BACnet over MSTP communication and all points shall be available to the DDC system.

VRV/SPLIT SYSTEM HEAT PUMP CONTROLS POINTS

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHICS
ROOM TEMPERATURE ACTUAL	VRW_ROOM_T				X			OUT OF RANGE	YES
TEMPERATURE SETTING	VRW_TS					X			YES
HEATING_COOL MODE	VRW_H_C					X			YES
OCCUPIED SCHEDULE	OCC_S						X		YES
UNOCCUPIED SCHEDULE	UNOCC_S						X		YES

RTU#:
LOCATION:
AREA SERVED: OCCUPIED/UNOCCUPIED

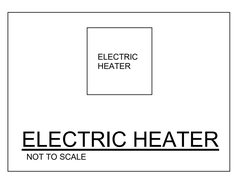
OA T	OA H	DATE & TIME
°F	%RH	



ROOFTOP UNITS

RTU-1 AND RTU-2 POINTS LIST

POINT NAME	BI	BO	AI	AO	SETPOINT	ALARM
DX COMPRESSOR 1 ENABLE/DISABLE		X				
DX COMPRESSOR 2 ENABLE/DISABLE		X				
DEHUMIDIFICATION SETPOINT					X	
ECONOMIZER MIXED AIR TEMP SETPOINT					X	
ECONOMIZER MIXED AIR TEMP SETPOINT OVERRIDE					X	
SUPPLY AIR TEMP SETPOINT					X	
EMERGENCY SHUTDOWN	X					X
MIXED AIR DAMPERS				X		
MIXED AIR DAMPERS OVERRIDE				X		
MIXED AIR TEMP			X			
OCC COOLING SETPOINT					X	
OUTSIDE AIR DAMPER STATUS	X					X
OUTSIDE AIR DAMPERS				X		
OUTSIDE AIR DAMPERS OVERRIDE					X	
OUTSIDE AIR TEMP			X			
PREFILTER STATUS	X					X
PREHEATING MIXED AIR TEMP SETPOINT					X	
PREHEATING MIXED AIR TEMP SETPOINT OVERRIDE					X	
RETURN AIR HUMIDITY			X			
RETURN AIR SMOKE DETECTOR	X					X
RETURN AIR TEMP			X			
SCHEDULE					X	
SUPPLY AIR TEMP			X			X
SUPPLY AIR TEMP SETPOINT					X	
SUPPLY FAN START/STOP		X				
SUPPLY FAN START/STOP OVERRIDE					X	
SUPPLY FAN STATUS	X					X
UNOCC COOLING SETPOINT					X	
UNOCC HEATING SETPOINT					X	
SUPPLY AIR TOTAL CFM			X			
RETURN AIR TOTAL CFM			X			
SUPPLY FAN AIR CFM			X			
RETURN FAN AIR CFM			X			
RETURN AIR HUMIDITY SENSOR			X			
RELIEF AIR DAMPER STATUS	X					X
RELIEF AIR DAMPERS				X		
RELIEF AIR DAMPERS OVERIDE					X	
MIXED AIR DAMPER STATUS	X					X
SPACE TEMPERATURE			X			X
ION DETECTION	X					X
GAS REHEAT VALVE				X		



ELECTRIC HEATER

NOT TO SCALE

1. All electric heaters shall be set to 65 degrees F.
2. All electric heaters shall be scheduled on and off based on classroom occupied and unoccupied times.

ELECTRIC HEATERS CONTROLS POINTS

DISPLAY NAME	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
START/STOP	EH_C		X					BOOLEAN COMMAND FAIL	YES
START/STOP OVERRIDE	EH_C_OVRD			X				BOOLEAN COMMAND FAIL	YES
STATUS	EH_S	X						BOOLEAN COMMAND FAIL	YES
SCHEDULE	OCC_S			X					
SPACE TEMPERATURE	EH_SPT				X				

1. Rooftop Units

1.1. Occupancy Schedule:

1.1.1. 7am to 4pm Monday Thru Friday. Contractor to verify schedule with owner.

1.1.2. The unit shall be placed into occupied/unoccupied, morning warm-up or morning cool-down mode from the BAS control system.

1.2. Outside Air/Return Air/Relief Air Damper Control: In occupied mode, the outside air damper shall maintain minimum outside air ventilation rate unless in economizer mode. The return air damper shall modulate inversely to the outside air damper. The relief air damper shall modulate to a minimum position during normal mode and shall fully open when in economizer mode with the exhaust fan active. In the unoccupied mode, the outside and relief air damper shall be closed.

1.3. Supply and Exhaust Fan Control

1.3.1. Supply fan will be started and stopped from the local BAS Panel per the ATC schedule. When the start command is issued the supply air fan shall be engaged. If the fan status does not match the commanded value an alarm will be generated. When the supply fan status indicates the fan has started, the control sequence will be enabled.

1.3.2. The exhaust fan shall be enabled when the unit enters economizer mode and shall be disabled when in normal mode.

1.3.3 Supply Fan and Exhaust Fan: Each fan shall have a current switch monitoring motor status and provide an alarm at the BAS for fan failures.

1.4. Supply Air Temperature Controls - Cooling/Heating

1.4.1 Building Automation System Interface: The Building Automation System (BAS) shall send the unit's controller Occupied/Unoccupied and Heat/Cool modes. The BAS shall also send the discharge air temperature setpoint and the duct static pressure setpoint. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

1.4.2 Occupied: During occupied periods, the supply fan shall run continuously. The DX cooling shall stage compressors to maintain the discharge air temperature set point 55 Deg. F (adj.). If economizing is enabled the outside air damper shall also modulate to maintain the discharge air temperature set point 55 Deg F (adj.). If the discharge air temperature sensor fails the DX compressors shall disable and an alarm shall be annunciated at the BAS. If the space temperature falls below 70 deg F (adj.) setpoint, then the gas heating valve shall modulate to maintain space temperature setpoint. The unit shall not simultaneously heat and cool.

1.4.3 Economizer: The discharge air temperature sensor shall measure the dry bulb temperature of the air leaving the cooling coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall be modulated between its minimum position and 100% to maintain the discharge air temperature setpoint 55 Deg. F. The economizer damper shall modulate toward minimum position in the event the mixed air temperature falls below the low temperature limit setting 50 Deg. F (adj.)

Reference Dry Bulb: Outside air (OA) temperature shall be compared with a reference dry bulb setpoint 56 Deg. F (adj.). The economizer shall enable when the OA temperature is less than reference dry bulb setpoint. The economizer shall be disabled when OA temperature is greater than reference dry bulb setpoint + 2.0 deg. F.

1.5. Smoke Shutdown:

1.5.1. Smoke detectors shall be located in the return air streams. If smoke is detected, the supply and return fans shall de-activate and an audio/visual alarm shall activate. Upon correction of the problem, the system shall be reset and unit shall return to normal operation. The smoke detectors shall provide a supervisory signal to the Fire Alarm System. This shall be reset automatically when smoke is no longer present.

1.6. Unoccupied Mode:

1.6.1. In the unoccupied mode, the air handling unit shall be "off". The outside air damper and exhaust air damper shall be closed and the return air damper shall be open. If the building space temperature is above 80 deg. F (adj.) the unit shall be placed into occupied mode until the space temperatures are 76 deg. F (adj.).

1.6.2. Morning Warm-Up (Building temperature is allowed to drop to 63°F): Under morning warm-up the unit shall be activated at a time provided by the BAS control system. Morning warm-up shall occur via indirect gas burner. Unit shall be 100% recirculating.

1.6.3. Morning Cool Down (The Building temperature is allowed to raise to 80°F adj.): Under morning cool-down the unit shall be activated at a time provided by the BAS control system. During this cool down the outside air damper and relief air damper shall remain closed. The unit shall circulate air through the building and the supply air temperature shall be controlled to 55 F (adj.) until the temperature drops to 75°F (adj.) When the space temperature has been lowered to 75°F (adj.) the unit shall go into normal operation. This shall occur 2 hours (adj.) before the occupied schedule. The unit shall do this via the DX cooling coil and staging of associated compressors.

1.6.4. Optimal Start: The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate the optimal start time in order for the building to reach occupied setpoint by the occupied time.

1.6.5. Optimal Stop: The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

1.6.6. All systems shall be disabled in the unoccupied mode. If the system is required to be enabled in the unoccupied mode due to space conditions, then all relevant PID loops shall be enabled as well to maintain appropriate control.

1.7. Dehumidification Mode (Gym and Aux Gym units only)

1.7.1. Dehumidification Mode: The unit shall have the capability of going into dehumidification mode. When return air humidity exceeds 65% RH (adj.) as detected by the return air humidity sensor, the hot gas reheat system shall be enabled. Under the dehumidification mode, the discharge air temperature shall be cooled to 55F (adj.) and the hot gas reheat system shall heat the discharge air to a room neutral 72 deg F (adj.). When engaged in dehumidification mode the unit shall run for a minimum of 30 min. (adj.).

1.8. Filter Status

1.8.1 A filter pressure differential sensor shall be provided across the filter bank and shall monitor filter static pressure. Provide an alarm if pressure drop exceeds 0.6" W.G. (adj.).

1.9. Bipolar Ionization Detection

1.9.1 An ionization detection sensor shall detect ion particles to prove system status. If no ionization particles are detected an alarm shall be generated at the front end.

1.10 Existing Auditorium RTUs Control

1.10.1 The ATC shall enable/disable existing unit controls based on occupied/unoccupied schedules.

1.10.2 ATC shall monitor a discharge and space temperature sensor and provide a front end alarm if temperature falls 5 deg F (adj.) above or below 72 deg F (adj.) when in occupied mode or 10 def F (adj.) above or below 72 deg F (adj.) in unoccupied mode.

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MECHANICAL CONTROLS

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OUTSIDE AIR UNIT SCHEDULE (PART 1)

MARK	MANUFACTURER	MODEL	CONFIGURATION	OUTSIDE AIR FAN							EXHAUST AIR FAN								COOLING PERFORMANCE						ELECTRIC HEATING PERFORMANCE					HOT GAS REHEAT COIL			
				MAX. CFM	# OF FANS	E.S.P. (IN WG)	HP (EA)	VOLT.	PH.	OP. FREQ.	MAX CFM	# OF FANS	E.S.P. (IN WG)	HP (EA)	VOLT.	PH.	OP. FREQ.	# OF ROWS	FIN SPACING	TOTAL COOLING CAP. (BTU/HR)	SENSIBLE COOLING CAP. (BTU/HR)	EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	MAX FACE VELOCITY (FPM)	MAX. AIR PRESSURE DROP (IN. WG.)	TOTAL HEATING CAP. (BTU/HR)	EAT (°F)	LAT (°F)	SIZE (KW)	MAX. AIR PRESSURE DROP (IN. WG.)	CAPACITY (BTU/HR)	FACE AREA (SQFT)	AIR PRESSURE DROP (IN. H20)	LAT (DB/WB)
DOAS-1	DAIKIN	DPS003A	DOAS WITH HOT GAS REHEAT, ENERGY WHEEL, AND ELECTRIC HEAT	600	1	1.4	1.3	208 V	3	60	540	1	0.5	1.3	208 V	3	60	3	1/16"	32460	20596	79.9	48.5	124.2	0.08	20478	50	81.4	6	0.05	15313	4.5	0.02	72.0/57.9

OUTSIDE AIR UNIT SCHEDULE (PART 2)

MARK	MANUFACTURER	MODEL	LOCATION	CONFIGURATION	TOTAL ENERGY RECOVERY WHEEL												PRIMARY FILTER SECTION				DIMENSIONAL DATA			REMARKS
					WINTER OPERATION						SUMMER OPERATION													
					OA EAT	OAT LAT	EA EAT	EA LAT	RECOVERED CAPACITY (BTU/HR)	SEN EFF	TOTAL EFF	OA EAT	OA LAT	EA EAT	EA LAT	RECOVERED CAPACITY (BTU/HR)	SEN EFF	TOTAL EFF	TYPE	MAX. VELOCITY (FPM)	QUANTITY / SIZE	AIR PRESSURE DROP	NOM. SIZE (IN.)	WEIGHT (LBS)	
DOAS-1	DAIKIN	DPS003A	OUTSIDE CLASSROOM B104	DOAS WITH HOT GAS REHEAT, ENERGY WHEEL, AND ELECTRIC HEAT	1 °F	50 °F	68 °F	50 °F	37727	0.81	0.79	95 °F	79.9 °F	75 °F	79.9 °F	25076	0.8	0.76	COMBO 2"/4" RACK W/2" MERV 8	84.5	4/6"X16"X2"	0.01	85.5"X40.8"X87"	1429	ALL

REMARKS:
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
2. PROVIDE NEC COMPLIANT DISCONNECT MEANS.
3. PROVIDE 36" TALL PLENUM CURB WITH HORIZONTAL SUPPLY AND RETURN DUCT CONNECTIONS.

ROOF TOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL #	UNIT CONFIGURATION	PHYSICAL DATA				SUPPLY FAN							EXHAUST FAN							COOLING						GAS HEATING				ELECTRICAL DATA						REMARKS
				WIDTH (IN.)	LENGTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	TOTAL SA CFM	FAN MOTOR TYPE	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	TOTAL RA CFM	FAN MOTOR TYPE	# OF FANS	FAN RPM	E.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	COOLING CAPACITY (BTU/HR)	SENSIBLE COOLING CAPACITY (BTU/HR)	EAT/LAT DB	EAT/LAT WB	FINS/INCH	COMPRESSOR TYPE	# OF COMPRESSORS	EER	IEER	TYPE	STAGES	SIZE (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EDB	LDB	VOLT.	PH.	MCA	MOCP	OP. FREQ.	
RTU-1	DAIKIN	DPS018A	PACKAGED ROOFTOP	77	162	71	3782	7200	SWSI AF	1	2159	1.00	2.01	5	4.91	3520	SWSI AF	1	1812	0.50	4	0.92	200858	171097	78.2/55.8	64.9/55.6	15	INVERTER SCROLL	1	10.8	19.5	GAS	4	300000	240000	57.4	89.3	208 V	3	93 A	125	60	ALL
RTU-2	DAIKIN	DPS007A	PACKAGED ROOFTOP	97	91	57	2285	3200	ECM	1	1822	0.75	1.13	4	1.05	3200	ECM	1	2321	0.50	2	1.02	88503	76583	75.6/53	62.6/52.9	15	INVERTOR SCROLL+FIXED SCROLL	2	12.1	19.8	GAS	MODULATING 10:1 TURNDOWN	200000	160000	60	107.8	208 V	3	43 A	50	60	ALL

REMARKS:
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
2. PROVIDE 18" INSULATED CURBS FOR NEW ROOFTOP UNITS WHERE DUCTS ROUTE DIRECTLY FROM BOTTOM OF UNIT AND THRU ROOF.

WATER SOURCE HEAT PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	STAGES	FAN		GPM	WATER PD (FT. H20)	WEIGHT (LB)	SIZE (LxWxH)	ELECTRICAL					HEATING				COOLING					CONDENSATE PIPE SIZE	HPS/HP R PIPE SIZE
					NOM. CFM	HP					VOLTAGE	PHASE	FLA	MCA	MOCP	CAPACITY (BTU/HR)	EAT (DB)	EWT (DEG. F)	HE (BTU/HR)	COP	SENSIBLE CAPACITY (BTU/HR)	TOTAL CAPACITY (BTU/HR)	EAT (DB/WB)	EWT (DEG. F)	HR (BTU/HR)	EER		
CHP-012	DAIKIN	WMHC2012	CONSOLE	1	360	0.033	2.9	13.53	146	46"X25"X10.75"	208 V	1	4.7	5.8	15	14393	70	70	11389	4.79	8342	11510	80	85	14321	13.98	3/4"	1"
CHP-018	DAIKIN	WMHC2018	CONSOLE	1	475	0.056	4.6	11.03	201	54"X25"X10.75"	208 V	1	6.7	8.2	15	20876	70	70	16597	4.9	10192	16837	80	85	20293	16.6	3/4"	1-1/4"
CHP-018A	DAIKIN	WMHC2018	CONSOLE	1	475	0.056	4.6	11.03	201	54"X25"X10.75"	208 V	1	6.7	8.2	15	17836	68	55	13857	3.4	9824	16132	75	85	20293	15.3	3/4"	1-1/4"

REMARKS:
1. PROVIDE NEC COMPLIANT DISCONNECT MEANS.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MODEL #	MANUF.	DIMENSIONS (IN.)			WEIGHT (LBS)	AIRFLOW (CFM)	ELECTRICAL		REMARKS
			LENGTH	WIDTH	HEIGHT			VOLTAGE	PHASE	
SS-1	FTX12NMVJU-RX12NMVJU	DAIKIN	30	11	9	18	434	208 V	1	ALL

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	MANUF.	MODEL #	DIMENSIONS (IN.)			WEIGHT (LBS)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEATING CAPACITY (MBH)	MINIMUM SEER	ELECTRICAL				REMARKS
			LENGTH	WIDTH	HEIGHT						MCA	MOCP	VOLTAGE	PHASE	
CU-1	DAIKIN	FTX12NMVJU-RX12NMVJU	22	27	11	60	10.9	9.5	13.5	19	12 A	15	208 V	1	ALL

REMARKS:
1. PROVIDE NEC COMPLIANT DISCONNECT MEANS.
2. ACCEPTABLE MANUFACTURER'S ARE TRANE, MITSUBISHI, SAMSUNG, AND LG.
3. SINGLE POINT CONNECTION (SS-1 PROVIDES POWER FOR CU-1).

VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	ROOM	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	AIRFLOW (CFM)	SOUND (DBA)	NOMINAL SIZE (WXHXD)	VOLTAGE	PHASE	MCA	MOP	WEIGHT (LBS)
CAS-1	DAIKIN	FXZQ12TAVJU	CORRIDOR A-CA	10.917	6.942	13.99	353	26-34	22.6X10.2X22.6	208 V	1	0.4 A	15 A	36.4
CAS-1	DAIKIN	FXZQ12TAVJU	CORRIDOR A-CA	10.917	6.942	13.99	353	26-34	22.6X10.2X22.6	208 V	1	0.4 A	15 A	36.4
CAS-1	DAIKIN	FXZQ12TAVJU	VESTIBULE-170	10.917	6.942	13.99	353	26-34	22.6X10.2X22.6	208 V	1	0.4 A	15 A	36.4

VARIABLE REFRIGERANT FLOW OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL #	MINIMUM ACTUAL INSTALLED COOLING	MINIMUM NOMINAL HEATING (MBH)	NOMINAL SIZE (IN)			WEIGHT (LBS)	ELECTRICAL				REMARKS
					LENGTH	WIDTH	HEIGHT		VOLTAGE (V)	PHASE	MCA	MOCP	
HP-1	DAIKIN	RXTQ36TAVJ9	32.2	16.4	39	37	13	172	208 V	1	17 A	25	ALL

REMARKS:
1. PROVIDE NEC COMPLIANT DISCONNECT MEANS.
2. ACCEPTABLE MANUFACTURER'S ARE TRANE, MITSUBISHI, SAMSUNG, AND LG.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	AIRFLOW (CFM)	E.S.P.	DRIVE	RPM	MAX INPUT WATTS	ELECTRICAL DATA			SONES	REMARKS
									VOLTAGE	PHASE	HZ		
EF-1	GREENHECK	SP-B110	CEILING	110	0.13	DIRECT	950	80.20	120 V	1	60	1.5	ALL
EF-2	GREENHECK	SP-B80	CEILING	75	0.13	DIRECT	900	18.60	120 V	1	60	0.9	ALL

REMARKS:
1. PROVIDE FACTORY-MOUNTED NEC DISCONNECT SWITCH.
2. SINGLE POINT CONNECTION.
3. EXHAUST FAN IS TO BE CONTROLLED BY LIGHT SWITCH SUCH THAT IT TURNS ON WHEN LIGHT IS ACTIVATED.
4. PROVIDE WITH BACKDRAFT DAMPER.
5. PROVIDE WITH 8" PAINTABLE ALUMINUM WALL CAP WITH BIRD/INSECT SCREEN.

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUF.	MODEL #	TYPE	AIRFLOW (CFM)	ELECTRICAL DATA			REMARKS
					KW	VOLTAGE	PHASE	
UH-1	MARKEL	HF3384D-RP	CEILING MOUNTED	175	1.5	208 V	1	ALL
UH-2	MARKEL	HF1B5103N	WALL MOUNTED	400	2.5	208 V	1	ALL

REMARKS:
1. PROVIDE NEC COMPLIANT INTEGRAL DISCONNECT MEANS.
2. PROVIDE 24 V THERMOSTAT.
3. PROVIDE THERMAL OVERLOAD PROTECTION
4. COLOR TO BE SELECTED BY ARCHITECT.

REGISTERS, GRILLES, AND DIFFUSERS

MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	PANEL SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS
E-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	6"ø	6"ø	100	0.05	25	-	ALL
E-3	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	10"ø	10"ø	400	0.05	25	-	ALL
E-5	TITUS	350RL	ALUMINUM 3/4" DEFLECTION EXHAUST GRILLE	14"X10"	16"X12"	14"X10"	14"X10"	540	0.08	21	-	ALL
R-2	TITUS	FL-10	ALUMINUM LINEAR SLOT DIFFUSER, 1" SLOT	1"X48"	2.75"X48"	8" OVAL	8"ø	225	0.15	25	-	ALL
R-3	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	10"ø	10"ø	400	0.05	25	-	ALL
R-4	TITUS	50-F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	12"ø	12"ø	600	0.05	25	-	ALL
R-5	TITUS	50-F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	14"ø	14"ø	950	0.05	25	-	ALL
S-1	TITUS	TDCA-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	24"X24"	6"ø	6"ø	100	0.05	25	4-WAY	ALL
S-2	TITUS	FL-10	ALUMINUM LINEAR SLOT DIFFUSER, 1" SLOT	1"X48"	2.75"X48"	8" OVAL	8"ø	225	0.15	25	JET	ALL
S-3	TITUS	TDCA-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	24"X24"	10"ø	10"ø	400	0.05	25	4-WAY	ALL
S-4	TITUS	TDCA-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	24"X24"	15"X15"	12"ø	600	0.05	25	4-WAY	ALL
T-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	SEE PLANS	SEE PLANS	400	0.05	25	-	ALL

REMARKS:
1. ACCEPTABLE MANUFACTURER'S ARE TITUS, PRICE, AND KRUEGER.
2. COORDINATE MOUNTING TYPE WITH CEILING TYPE AND ARCHITECTURAL CEILING PLANS PRIOR TO FABRICATION/INSTALLATION.
3. COORDINATE FINAL COLOR/FINISH WITH ARCHITECT PRIOR TO FABRICATION/INSTALLATION.
4. PROVIDE WITH INTEGRAL HINGED FILTER HOUSING AND FILTER.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	CFM	WIDTH (IN)	HEIGHT (IN)	FREE AREA	VELOCITY (FPM)	APD (IN. WG.)	REMARKS
L-1	RUSKIN	ELF375DX	CHP-018A	60	12	12	0.3	200	0.01	ALL

REMARKS:
1. COLOR TO BE SELECTED BY ARCHITECT.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

STATE OF KENTUCKY
BENJAMIN M. HOSKINS
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MECHANICAL SCHEDULES

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR:

BURGIN INDEPENDENT BOARD OF EDUCATION

BURGIN, KENTUCKY

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BG# 19-262

Project No: 1904
Drawn By: Author
Rev'd By: Checker

SHEET RELEASE

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CONSTRUCTION DOCUMENTS

M7.0

MECHANICAL SCHEDULES

DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION

REFER TO TYPICAL WALL DEVICE MOUNTING DETAIL ON SHEET E7.0

ELECTRICAL DEMOLITION NOTES:

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

ELECTRICAL GENERAL NOTES:

A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.
D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
E. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
F. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
G. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
H. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
I. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
J. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
K. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
L. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
M. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
N. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
O. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER
P. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
Q. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
R. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
S. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).
T. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
U. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.
V. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
W. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
X. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT
Y. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
Z. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
AA. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
BB. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
CC. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
DD. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
EE. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
FF. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
GG. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
HH. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
II. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
JJ. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
KK. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
LL. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.
MM. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
NN. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
PP. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
QQ. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
RR. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
SS. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
TT. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
UU. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
VV. REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING CONTROL SWITCHES		
LIGHT SWITCH: LOW VOLTAGE	46"	$
EXAM LIGHT SWITCH	46"	$X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	$N
SURGICAL LIGHT INTENSITY CONTROL	46"	$SL
LOW VOLTAGE DIMMER SWITCH	46"	$D
LINE VOLTAGE SWITCH	46"	$LV
LINE VOLTAGE THREE-WAY SWITCH	46"	$3 LV
LINE VOLTAGE FOUR-WAY SWITCH	46"	$LV4
KEYED SWITCH	46"	$K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$OS, $VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	$IL
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	$PL
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$M
MOMENTARY CONTACT SWITCH	46"	$MC
HAND-OFF-AUTO 3-POSTION SWITCH	46"	$HOA
TIMER SWITCH	46"	$T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	(OS), (VS)
OCCUPANCY OR VACANCY SENSOR, CORNER MOUNT	CLG	▽
PHOTO-CELL AS NOTED	AS NOTED	(PC)
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ER
POWER OUTLETS		
SIMPLEX RECEPTACLE	1'-6"	⊖
DUPLEX RECEPTACLE-SAFETY TYPE, TAMPER-RESISTANT	1'-6"	⊖ S
DUPLEX RECEPTACLE	1'-6"	⊖
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		⊘, ⊘
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	⊖
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		⊖
FILLED OUTER BARS INDICATES INTEGRAL INTEGRAL USB OUTLETS IN ADDITION TO POWER RECEPTACLES	1'-6"	⊖
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	⊖ C/S
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	⊖
QUADRUPLEX RECEPTACLE	1'-6"	⊕
JUNCTION BOX, CEILING OR WALL		(J), (J)
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	⊖
VOLTAGE/3PH RECEPTACLE, AS NOTED	1'-6"	⊕
"DOG-HOUSE" TYPE TWIN DUPLEX RECEPTACLE WITH ONE DUPLEX RECEPTACLE ON BOTH SIDES	ON CNTR.	⊙ DP
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		⊖ SS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	⊖ WP
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		⊖ EWC
FIRE ALARM		
MAIN VOICE FIRE ALARM CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	46" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F, (F)
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A, (A)
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V, (V)
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD P
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE, BR
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABV CLG	CD
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F CM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"	NAC
TRANSPONDER CABINET	46"	TRAN
GRAPHICS DISPLAY TERMINAL		GDT
FIRE ALARM CONTROL EXTENDER		EXT
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK	4'-6"	FP
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		PC
INDICATES CHIME AUDIBLE NOTIFACTION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		⊕, ○, ▭, □
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		⊕, ○
FLOODLIGHT		◁
SURGICAL/EXAM LIGHT		◎ SL, XL
EXIT LIGHT (CEILING, END, WALL MOUNT)		⊗, ⊗, ⊗
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		⊠
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		▥
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	⊠
MAGNETIC COMBINATION STARTER	5'-0"	⊠
VARIABLE FREQUENCY DRIVE	5'-0"	⊞
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	⊟
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	▨
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
PUSHBUTTON STATION	46"	⊡
FLEXIBLE CONDUIT		~
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		⬡
REVISION TAG		△
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		—
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL	46"	DB
DOORBELL AUDIO/VISUAL STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OwNER/ARCHITECT, NUTONE OR EQUAL	7'-6"	DB○
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		(J)~
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		(J)~ K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		⊕
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	46"	GEN-A
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT STUB-UP, REFER TO MECHANICAL DRAWINGS FOR LOCATIONS		(T)
CONDUIT UP		○
CONDUIT DOWN		●
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		E, EM
SPECIAL OUTLETS		
FLOORBOX, POWER ONLY, AS SCHEDULED	FLOOR	
FLOORBOX, COMBINATION POWER AND LOW VOLTAGE, REFER TO FLOORBOX SCHEDULE	FLOOR	
FIRE RATED POKE THOUGH FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR	⊙
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV
COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		▽
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP
TELEVISION		
TELEVISION SPLITTERS/AMPLIFIERS/DISTRIBUTION	46"	TV-HE
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
OVERHEAD PAGING		
PAGING SPEAKER: CEILING	CLG	◇S
PAGING SPEAKER W/ VOLUME CONTROL	CLG	◇SV
PAGING SPEAKER: WALL	8'-0"	◇S
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE 5A606 SPEAKER. ATLAS 417-8WD	8'-0"	◇S R
WALL MOUNTED PAGING HORN	9'-0"	◇H
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER. QUAM VP1	SEE FLOOR PLANS	◇S WP
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER. QUAM VP6	SEE FLOOR PLANS	◇S EXT.
CALL INITIATION STATION	46"	◇C
WALL VOLUME CONTROL	46"	◇V
LCD WALL DISPLAY		◇LD
PAGING MICROPHONE	1'-6"	◇M
PAGING SYSTEM AMPLIFIER/TUNER CABINET	46"	PA
CLOCKS		
ANALOG CLOCK	84"	
ELAPSED TIMER		ET
DIGITAL CLOCK: SINGLE FACE	84"	DC
DIGITAL CLOCK: DUAL FACE	84"	2DC
CLOCK SYSTEM HEAD END	84"	CLOCK
CLASSROOM A/V EQUIPMENT		
CEILING MOUNTED PROJECTOR		
A/V SYSTEM CABLING TERMINATIONS / WALLPLATE		AV
CLASSROOM PROJECTOR SPEAKER		(SS)
SMARTBOARD		SB
SMARTBOARD WITH INTEGRAL PROJECTOR		P SB
CART / CEILING / WALL PROJECTOR (AS NOTED)		P
LOCAL SOUND		
WALL MICRO-PHONE OUTLET : SINGLE	1'-4"	(M)
WALL MICRO-PHONE OUTLETS(# AS NOTED)	1'-4"	(M) 2 ,3 4
FLOOR MICRO-PHONE OUTLET : SINGLE	FLOOR	⊙ M
FLOOR MICRO-PHONE OUTLETS(# AS NOTED)	FLOOR	⊙ M2, M3, M4
CAFETERIA SYSTEM SOUND SPEAKER	SEE SPECS	(CS)
BLUETOOTH INPUT MODULE	1'-4"	(BT)
AV INPUT MODULE	1'-4"	(AV)
TOUCHSCREEN AV CONTROLLER	SEE SPECS	(TP)
WIRELESS MICROPHONE ANTENNA	CEILING	

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SECURITY PANIC ALARM		
PANIC ALARM BUTTON	46"	PB
PANIC ALARM ANNUNCIATOR	46"	PA
AMBER STROBE	80"	AS
PANIC ALARM POWER SUPPLY CABINET	46"	SEC-P
SECURITY INTERCOM		
AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM. AIPHONE#AX-MV W/DESK STAND - COLOR BY ARCHITECT.	18"	IM
SAME AS "IM" EXCEPT WALL MOUNTED	46"	IM W
AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S. ENCLOSURE. AIPHONE #AX-DVF.	46"	IR
SECURITY ACCESS CONTROL		
DOOR ALARM/POSITION SWITCH	DOOR FRAME	DA
MAGNETIC LOCK(S)	ABV DOOR	ML
DOOR POWER SUPPLY	ABV CLG	DS
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	DP
ELECTRIC STRIKE	AT LATCH	ES
AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	AD
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PP
DOOR RELEASE KEYSWITCH STATION	6'-0"	KS
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	CR
SAME AS "CR" EXCEPT MULLION MOUNT	46"	CR M
MOTION SENSOR DOOR CONTROL	CEIL.	MS
PUSH-TO-EXIT BUTTON	46"	PE
ACCESS CONTROL POWER SUPPLIES/CONTROL PANEL	46"	SEC-A
SECURITY CCTV VIDEO SURVEILLANCE		
REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	RR
CCTV CAMERA: CEILING MOUNT DOME	CLG	CC
CCTV CAMERA: WALL MOUNT DOME	WALL	CC
INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILLARY HEATER		WP
INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
CCTV POWER SUPPLIES/CONTROL PANEL	46"	SEC-C
SECURITY INTRUSION DETECTION		
MOTION DETECTOR	CLG	MD
MOTION DETECTOR KEYPAD CONTROLLER	46"	MK
SECURITY SYSTEM HEAD END	46"	SEC-M
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D ▽
VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS	1'-6"	#V ▼
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	#D/#V ▼
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		#D ▽, #V ▼
RF TRACKER ANTENNA	CLG	
TELEMETRY ANTENNA	CLG	
OUTLET (VOICE ONLY) : PAYPHONE TYPE	AS REQ'D.	PAY
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-C0NDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, # 3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		TEL
WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS.		WAP ▽
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		
PANEL FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		◀
POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	(J)~ FP
COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	FF

DESCRIPTION

SYSTEM RESPONSIBILITY MATRIX

SYSTEM	ITEM USED ON PROJECT		DEVICES - O F O I	DEVICES - O F C I	DEVICES - C F C I		CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - O F C I	CABLING/CONDUCTORS - C F C I	SYSTEM SYMBOL
OVERHEAD PAGING	●				●				●	◇
FIRE ALARM	●				●				●	□
SECURITY: PANIC ALARM										⬡
SECURITY: ACCESS CONTROL	●				●				●	⬡
SECURITY: INTERCOM	●				●				●	⬡
SECURITY: CCTV	●		●						●	⬡
AV	●				●				●	⊘
DATA PROCESSING	●				●				●	▽
TELEPHONE	●				●				●	▼
PATIENT ROOM MOTION DETECTION										⬡
LOCAL SOUND	●				●				●	○

SYSTEM RESPONSIBILITY GENERAL NOTES:

A. REFER TO VENDOR DRAWINGS FOR COMPLETE SCOPE OF WORK RELATING TO VENDOR-FURNISHED EQUIPMENT. ALL WORK INDICATED ON VENDOR DRAWINGS SHALL BE INCLUDED BY THE CONTRACTOR.
B. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
C. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.
D. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS, TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
E. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.
F. WHERE INDICATED AS CFCI, THE CONTRACTOR SHALL PROVIDE THE SYSTEM COMPLETE, INCLUDING ALL ROUGH-INS, CABLING, DEVICES, POWER, ETC. THE CONTRACTOR SHALL CONTACT THE LISTED VENDOR FOR PRICING PRIOR TO BID. ALL SYSTEMS SHALL MATCH EXISTING FACILITY STANDARDS AND BE FULLY COMPATIBLE WITH ANY EXISTING SYSTEMS. ALL SYSTEM VENDORS SHALL COORDINATE EXACT SYSTEM REQUIREMENTS WITH OWNER PRIOR TO BID. NEW COMPONENTS SHALL BE INTERCONNECTED WITH EXISTING SYSTEMS WHERE POSSIBLE. ALL NEW SYSTEM DESIGNS AND PROGRAMMING SHALL BE COORDINATED WITH THE OWNER PRIOR TO ORDERING. ALL PROGRAMMING SHALL BE INCLUDED AS REQUIRED BY THE OWNER. PROVIDE 4 HOURS OF TRAINING FOR EACH SYSTEM.

CABLE AND CONDUIT COLOR SCHEDULE

SYSTEM	CABLE COLOR	CONDUIT COLOR	JACK INSERT	CABLE TYPE
HVAC CONTROLS	GREEN	GREEN	N/A	REFER TO SPECIFICATIONS
VOICE/DATA	BLUE	BLUE	BLUE	CAT6
WAP	ORANGE	ORANGE	ORANGE	CAT6
SECURITY CAMERAS	WHITE	WHITE	N/A	CAT6
INTERCOM	GRAY	GRAY	N/A	REFER TO SPECIFICATIONS
LIGHTING CONTROLS	PURPLE	PURPLE	N/A	CAT5E
FIRE ALARM	RED	RED	N/A	REFER TO SPECIFICATIONS

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ELECTRICAL LEGEND
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BG# 19-262

Project No: 1904
Drawn By: CH
Rev'd By: CJC

SHEET RELEASE

1		
2		
3		
4		
5		
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CONSTRUCTION DOCUMENTS

E1.0

ELECTRICAL LEGEND

DATE ISSUED:
9/13/19

REVISIONS

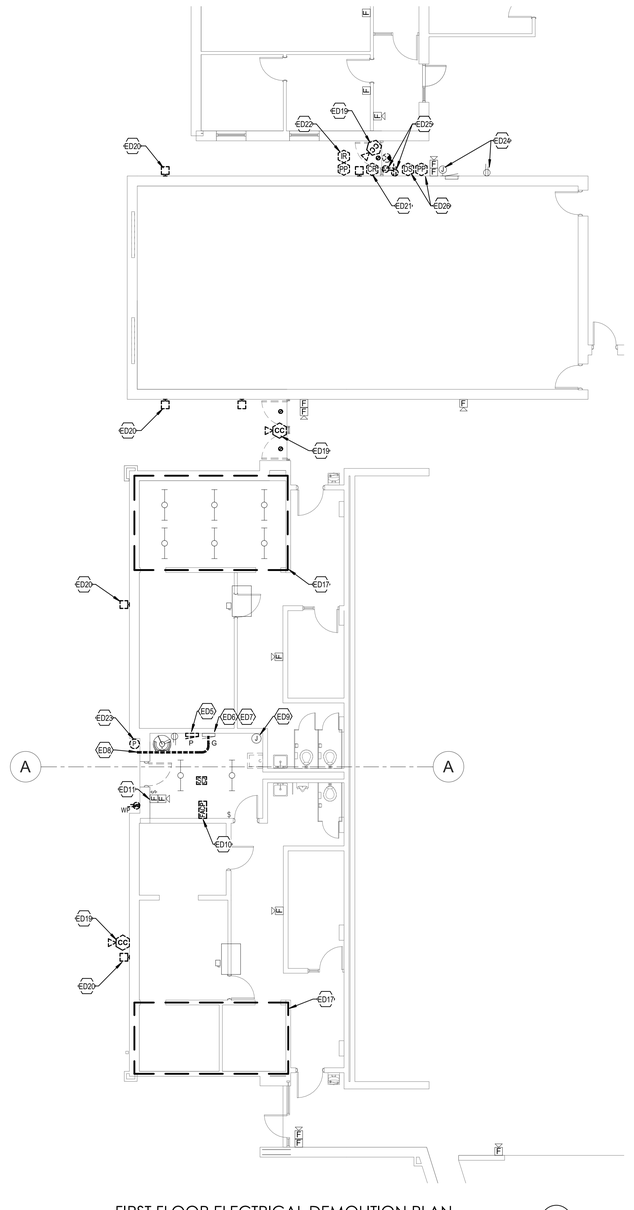
#	DATE	DESCRIPTION

TAGGED NOTES

#	
ED5	DEMOLISH EXISTING PANEL 'P' AND PREPARE TO INSTALL NEW PANEL IN SAME LOCATION TO REFEED ALL EXISTING CIRCUITS. PANEL 'P' IS A 400A, 120/208/3P/4W PANEL WITH 40 POLES. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
ED6	EXISTING PANEL 'G' IS TO REMAIN. A PORTION OF THE EXISTING FEEDER SERVING THE PANEL MUST BE DEMOLISHED TO ALLOW CONSTRUCTION OF NEW BUILDING ADDITION. REFER TO SHEET U1.0, UE1.0, AND E4.0 FOR ADDITIONAL INFORMATION ON NEW FEEDER.
ED7	IN ORDER TO MAINTAIN POWER TO GYM AND CLASSROOM HVAC EQUIPMENT SERVED BY PANEL 'G' CONTRACTOR SHALL PROVIDE TEMPORARY FEEDER TAP FROM PANEL 'P'. INTERCEPT INCOMING FEEDER CONDUCTORS SERVING PANEL 'P', PROVIDE WIRING TROUGH, CUT AND SPLICE. EXTEND NEW WIRING TO PANEL 'P' AND 'G'. PERFORM THIS WORK AT START OF PROJECT AND DURING A WEEKEND TO MINIMIZE INTERRUPTION TO SCHOOL OPERATION. SCHEDULE WORK WITH OWNER AND ENSURE MINIMAL DOWNTIME.
ED8	DEMOLISH PORTION OF FEEDER SHOWN SERVING PANEL 'G' BACK TO PANEL.
ED9	REWORK ALL CONDUITS, JUNCTION BOXES, AND CABLING ON WALL TO MAKE ROOM FOR NEW ROOF ACCESS LADDER. RELOCATE JUNCTION BOXES TO MAINTAIN CODE REQUIRED CLEARANCES. CUT AND SPLICE WIRING FOR ALL REWORKED CIRCUITS TO MAINTAIN CONTINUITY. REFER TO ARCHITECTURAL PLANS FOR LADDER LOCATION AND SIZE. CONTRACTOR SHALL FIELD VERIFY CONDUITS AND CONDUCTORS AFFECTED BY INSTALLATION OF NEW LADDER.
ED10	DEMOLISH EXISTING NOTIFIER AFP-200 FIRE ALARM CONTROL PANEL. EXISTING POWER, TELEPHONE, AND FIRE ALARM CIRCUITS ARE TO REMAIN AND BE RECONNECTED TO NEW FACP INSTALLED IN SAME LOCATION. REFER TO SHEET E5.0 SYSTEMS PLANS FOR ADDITIONAL INFORMATION.
ED11	EXISTING SHELVING SECURED TO WALL IS TO BE DEMOLISHED AS PART OF THIS CONTRACT. CONDUIT SERVING FIRE ALARM DEVICES IS CURRENTLY CUT INTO EXISTING SHELVING. REMOVE AND REINSTALL FIRE ALARM PULLSTATION AND NOTIFICATION APPLIANCE IN SAME LOCATION AND REWORK CONDUIT AND CABLING FOR REMOVAL OF SHELVES TO OCCUR.
ED17	REMOVE ALL EXISTING CEILING MOUNT DEVICES IN THIS AREA FOR CEILING WORK. MAINTAIN CONDUIT AND CABLING AND REINSTALL DEVICES IN SAME LOCATIONS WHEN CEILING WORK IS COMPLETE. CLEAN AND RELAMP LIGHT FIXTURES.
ED19	SALVAGE SECURITY CAMERA AND MOUNT AND RELINQUISH TO OWNER. DEMOLISH ASSOCIATED CONDUIT AND CABLING BACK TO SOURCE. REFER TO SHEET E6.3 ELECTRICAL FIRST FLOOR OVERALL PLAN FOR CCTV HEADEND LOCATION.
ED20	DEMOLISH EXTERIOR ELECTRICAL DEVICES WHERE NEW BUILDING ADDITION WILL BE LOCATED. PATCH AND REPAIR VOIDS AS REQUIRED. REWORK CONDUIT, BACKBOXES, AND CONDUCTORS/CABLING TO MAINTAIN CODE COMPLIANCE AND SERVICE TO DOWNSTREAM DEVICES. (TYPICAL WHERE A DEVICE IS SHOWN AS DEMOLISHED)
ED21	SALVAGE CARD READER. DEVICE TO BE RELOCATED TO FOR BUILDING ADDITION. REFER TO LEVEL 1 SYSTEMS PLANS AND DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
ED22	SALVAGE AIPHONE INTERCOM STATION AND RELINQUISH TO OWNER. DEMOLISH ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. REFER TO SHEET E6.3 ELECTRICAL FIRST FLOOR OVERALL PLAN FOR AIPHONE HEADEND LOCATION.
ED23	DEMOLISH EXISTING PHOTOCELL. MAINTAIN CONDUIT AND CONTROL CABLING TO EXTEND TO NEW PHOTOCELL. LOCATE ADJACENT TO NEW NETWORKED LIGHTING PHOTOCELL AT PARAPET OF CAFETERIA ROOF. REFER TO NEW WORK LIGHTING PLANS.
ED24	MAINTAIN RECEPTACLE AND ASSOCIATED SURFACE MOUNT RACEWAY AND WIRING.
ED25	DEMOLISH SURFACE MOUNT RECEPTACLES AND ASSOCIATED RACEWAY AND CONDUCTORS BACK TO SOURCE OR NEAREST JUNCTION BOX TO MAINTIAN CIRCUIT CONTINUITY.
ED26	SALVAGE DOOR POWER SUPPLY. REFER TO DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

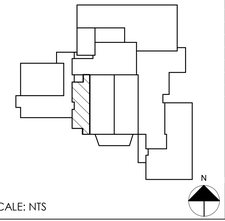
ELECTRICAL DEMOLITION...

- DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.
- EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.



FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"
1 E2.0

KEY PLAN



SCALE: NTS

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ELECTRICAL DEMOLITION PLAN
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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BG# 19-262

Project No:	1904
Drawn By:	CH
Rev'd By:	CJC

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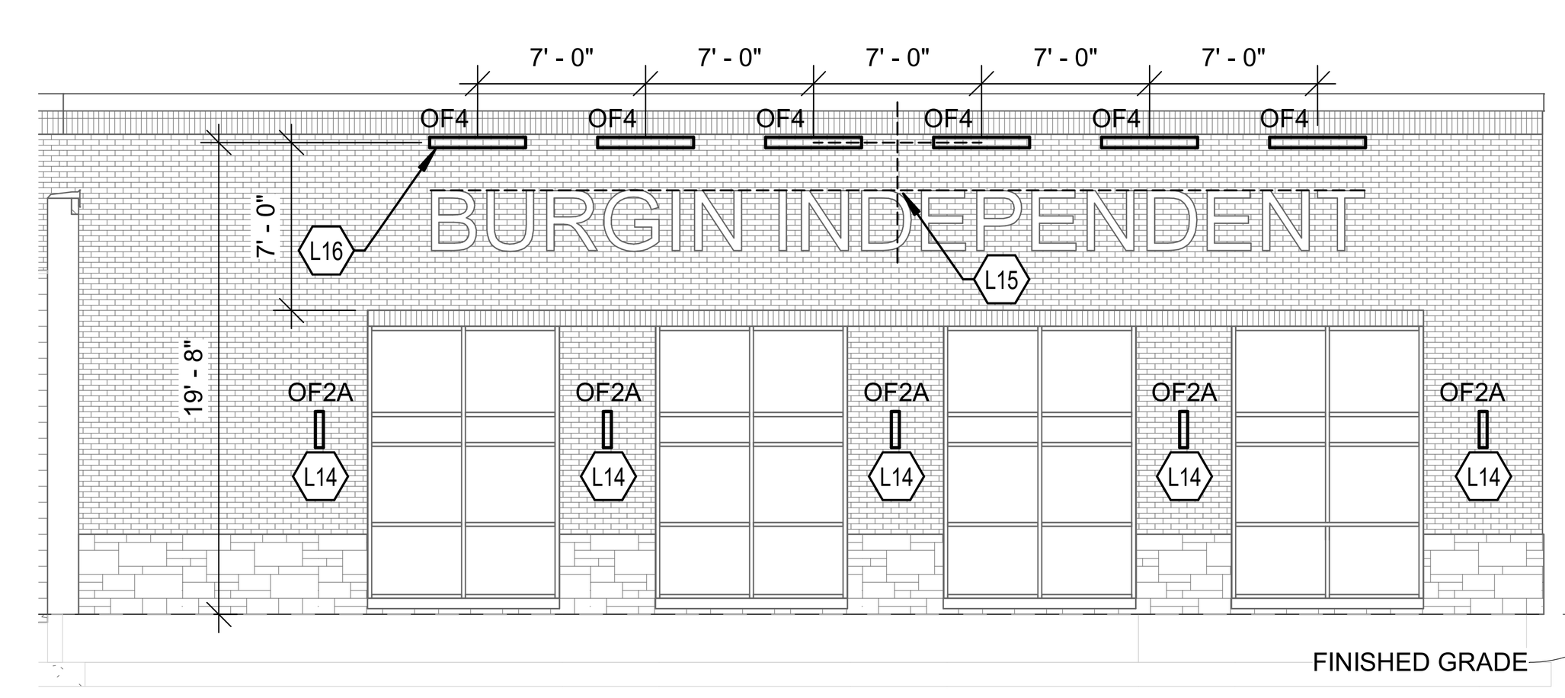
CONSTRUCTION DOCUMENTS

E2.0

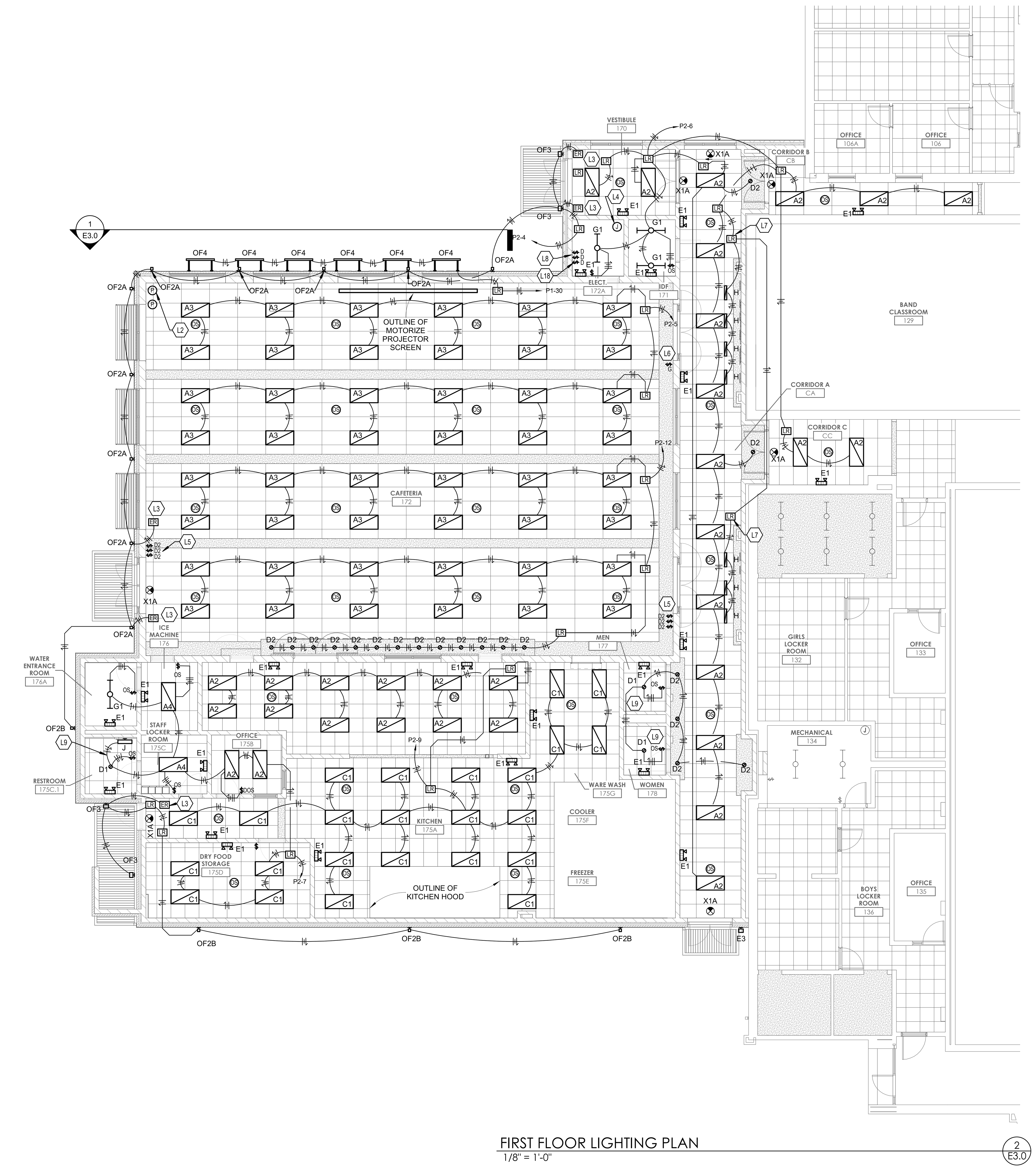
ELECTRICAL DEMOLITION PLAN

DATE ISSUED:
9/13/19

REVISIONS		
#	DATE	DESCRIPTION



FACADE LIGHTING PLAN
1/8" = 1'-0"
1
E3.0



FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"
2
E3.0

ELECTRICAL LIGHTING NOTES

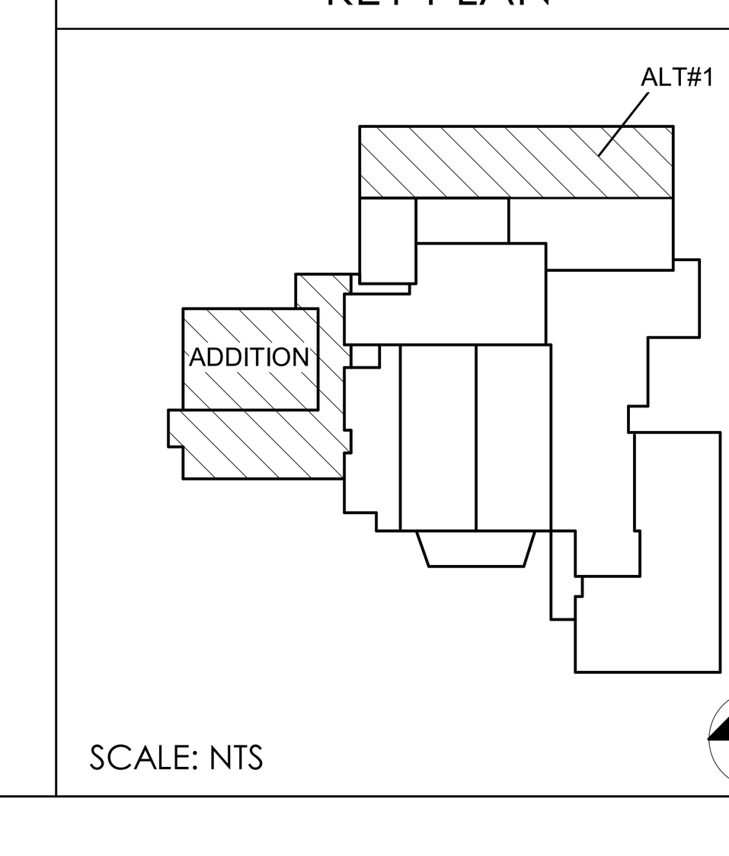
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
- LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
- WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
- LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
- ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
- RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED

TAGGED NOTES

##

L2	PROVIDE PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTING. INSTALL AT ROOF LEVEL ON ROOF SIDE OF PARAPET WALL. ROUTE CONDUIT FOR CABLING CONCEALED WITHIN PARAPET WALL AND EXTEND TO ABOVE CEILING SPACE OF CAFETERIA. DO NOT PENETRATE ROOF WITH CONDUIT. EXACT LOCATION TO BE COORDINATED WITH MANUFACTURERS REQUIREMENTS.
L3	PROVIDE CEILING MOUNT EMERGENCY BYPASS TRANSFER RELAY WITH TEST SWITCH ACCESSIBLE FROM BELOW CEILING (ELCR-R FOR NON-DIMMED LOADS, ELCR-Z10 FOR DIMMED LOADS, OR APPROVED EQUAL). RELAY IS SHOWN CONNECTED TO FIXTURE TO BE CONTROLLED. ONLY ONE RELAY IS REQUIRED FOR EACH ZONE OF CONTROLLED LIGHTING. CONNECT TO CENTRAL LIGHTING INVERTER LOCATED IN ELECTRICAL 172A. REFER TO TAGGED NOTE 'L4' FOR MORE INFORMATION.
L4	PROVIDE CENTRAL INVERTER SYSTEM FOR EXTERIOR EMERGENCY EGRESS LIGHTING (POWER SENTRY EAC-ISSM-125-120/277-SM OR APPROVED EQUAL). SYSTEM SHALL BE 0-10V DIMMING CAPABLE AND FIELD ADJUSTABLE. CONTRACTOR SHALL SET INITIAL DIMMING LEVEL TO 60%. SYSTEM SHALL SUPPLY EMERGENCY POWER TO FIXTURES INDICATED WITH TAGGED NOTE 'L3' EMERGENCY BYPASS TRANSFER RELAY.
L5	PROVIDE DUAL ON/OFF/DIMMING SWITCHES FOR CONTROL OF CAFETERIA LIGHTING. COORDINATE QUANTITY AND ROUGH-IN WITH NUMBER OF CAFETERIA LIGHTING ZONES. PROVIDE SUFFICIENT QUANTITY TO ACHIEVE ZONES INDICATED PLUS ONE EXTRA "ALL ON/ALL OFF" ZONE.
L6	PROVIDE TOUCH SCREEN WALL SWITCH (NPOD TOUCH, LEGRAND EQUINOX, OR HUBBELL NXSW) FOR MASTER CONTROL OF CAFETERIA LIGHTING. PROVIDE ADDITIONAL RS232 HARDWARE INTERFACE TO ALLOW SCENE CONTROL OF PROJECTOR AND MOTORIZED PROJECTION SCREEN. REFER TO AV SPECIFICATIONS FOR COORDINATION.
L7	DIMMER SWITCHES FOR CONTROL OF WALL WASH TYPE 'H' FIXTURES LOCATED IN ELECTRICAL 172A. REFER TO TAGGED NOTE 'L8'.
L8	PROVIDE TWO DIMMING SWITCHES FOR CONTROL OF WALL WASH TYPE 'H' FIXTURES IN CORRIDOR CA.
L9	PROVIDE DUAL RELAY LIGHTING/EXHAUST FAN OCCUPANCY SENSOR SWITCH. PROVIDE ALL REQUIRED WIRING FOR CONTROL OF EXHAUST FAN. SWITCH SHALL ALLOW A SECOND SEPARATELY CONTROLLED TIME DELAY UPON VACANCY SETTING FOR EXHAUST FAN TO ALLOW FAN TO OPERATE FOR AN EXTENDED PERIOD OF TIME AFTER LIGHTS HAVE SHUT OFF.
L14	REFER TO FIXTURE SCHEDULE FOR MOUNTING HEIGHTS AND COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER SPECIFIC MOUNTING REQUIREMENTS TO ENSURE DESIRED HEIGHT IS ACHIEVED. (TYPICAL OF ALL EXTERIOR BUILDING MOUNTED FIXTURES)
L15	CENTER LIGHTS OVER THE WIDTH OF THE TEXT.
L16	FIXTURE SPACINGS ARE BASED ON MANUFACTURER SPECIFIC MOUNTING INFORMATION AND ARE REPRESENTATIVE OF THE BASIS-OF-DESIGN ONLY. SPACINGS INDICATED ARE COORDINATED SUCH THAT RECESSED JUNCTION BOXES ARE ALIGNED WITH BRICK COURSING. A SPECIFIC MOUNTING LAYOUT WILL BE DETERMINED DURING THE SHOP DRAWING PHASE AND WILL BE BASED UPON FINAL LETTERING DESIGN. CONTRACTOR SHALL NOT ROUGH-IN FOR FIXTURES WITHOUT AN APPROVED LAYOUT AND COORDINATION HAS BEEN DONE WITH APPLICABLE TRADES. (TYPICAL OF 'OF4' FIXTURES)
L18	PROVIDE DIMMING SWITCH FOR CONTROL OF WALL WASH TYPE 'OF4' FIXTURES AT BUILDING EXTERIOR.

KEY PLAN



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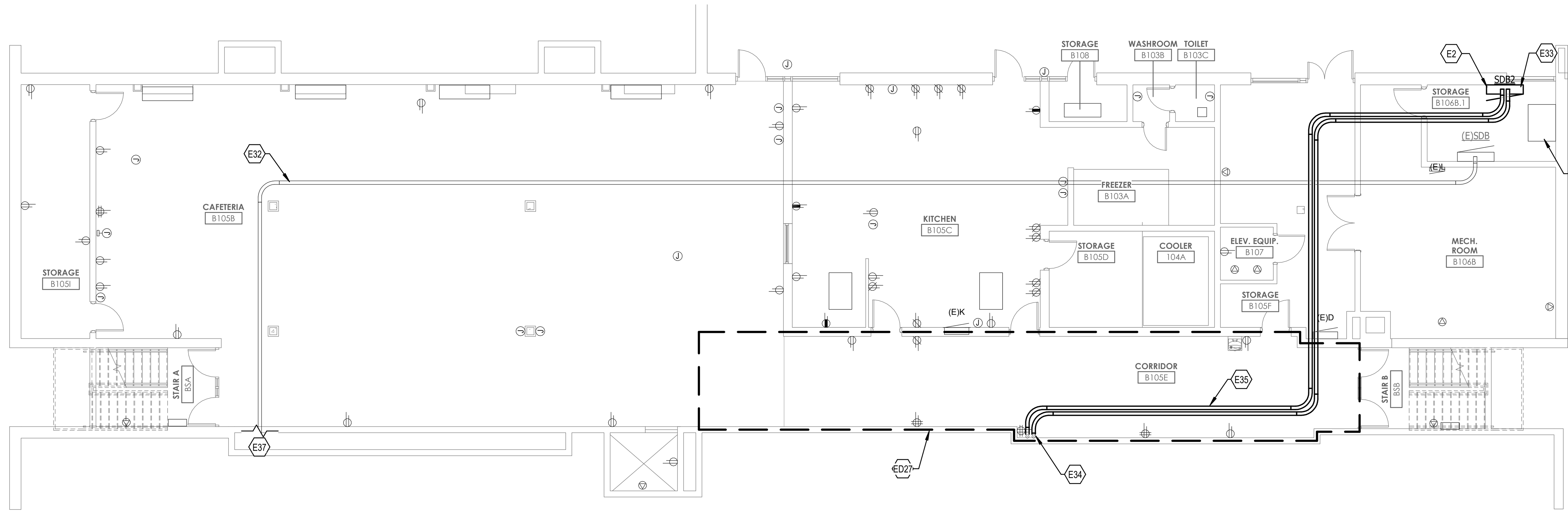

BASEMENT POWER PLAN
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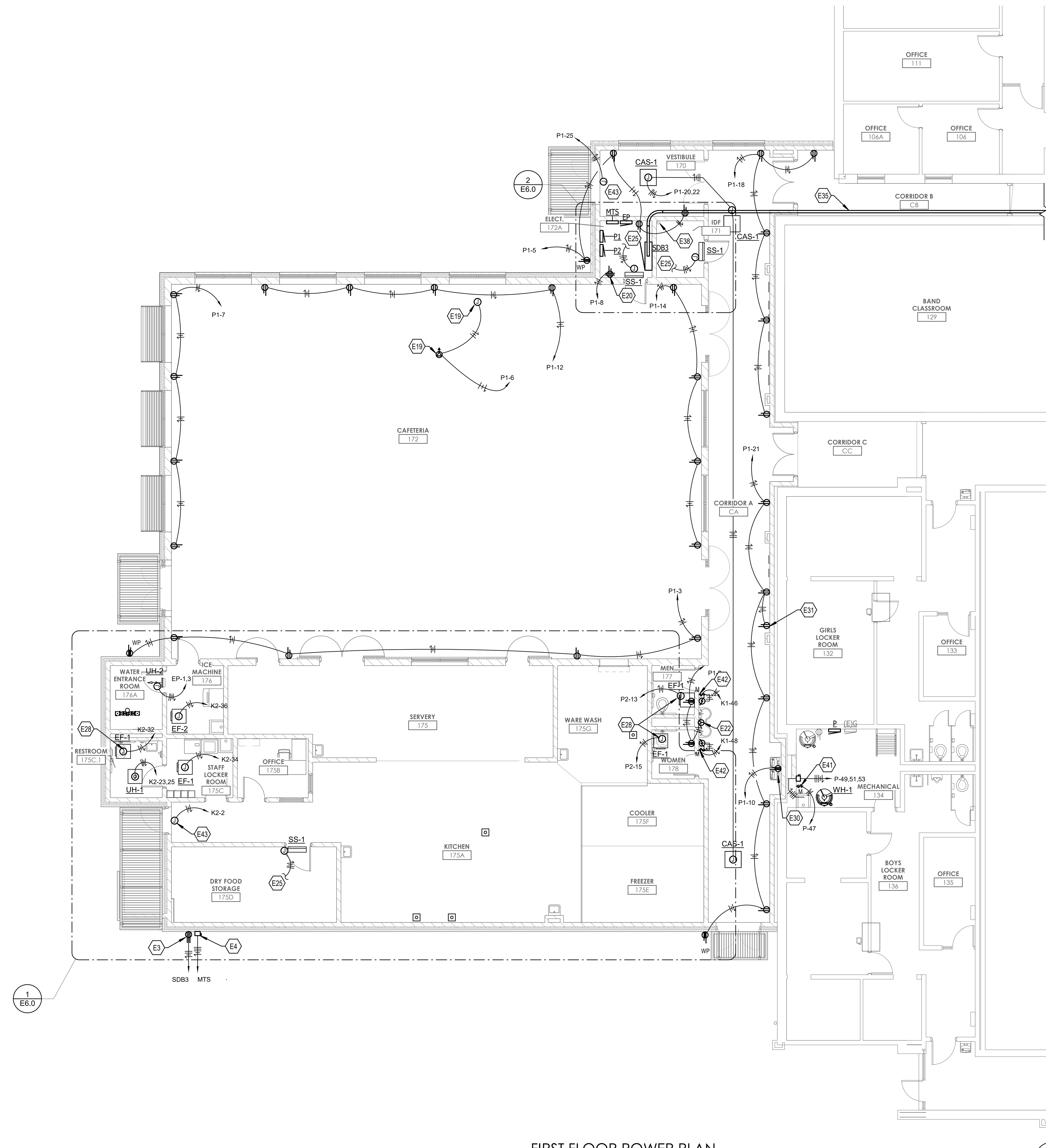
1 E4.0



FIRST FLOOR POWER PLAN
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TAGGED NOTES

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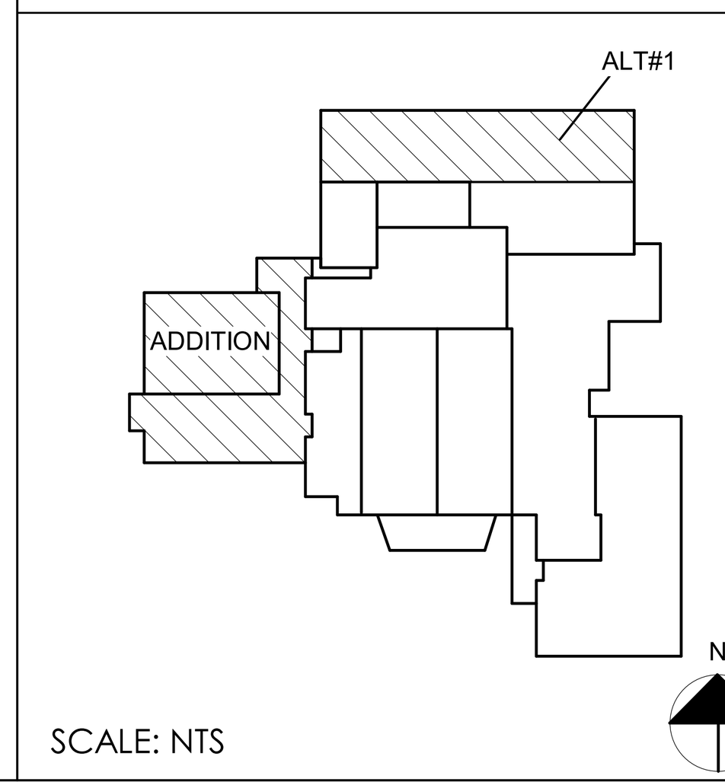
E1	EXISTING 1600A, 208/3P/4W SQUARE D SERVICE ENTRANCE SWITCHBOARD TO REMAIN.
E2	PROVIDE DISTRIBUTION PANEL FED FROM MSB. RELOCATE BREAKERS FROM MSB TO SDB2 TO MAKE ROOM FOR NEW SDB2 BREAKER IN MSB. REFER TO ONE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
E3	PROVIDE NEMA 14-50R RECEPTACLE IN WEATHERPROOF LOCKABLE ENCLOSURE.
E4	PROVIDE PORTABLE GENERATOR HOOKUP. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
E19	PROVIDE DEDICATED CIRCUIT FOR PROJECTOR AND MOTORIZED PROJECTOR SCREEN. COORDINATE EXACT REQUIREMENTS WITH CAFETERIA AV SPECIFICATIONS.
E20	PROVIDE DEDICATED CIRCUIT FOR AV EQUIPMENT RACK. LOCATE RECEPTACLE IN INTERIOR BACKPAN OF RACK. COORDINATE EXACT REQUIREMENTS WITH CAFETERIA AV SPECIFICATIONS.
E22	CONNECT TO PLUMBING FIXTURE SENSOR. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P1.0 AND COORDINATE EXACT REQUIREMENTS.
E25	CIRCUIT INDOOR UNIT FROM OUTDOOR UNIT.
E28	EXHAUST FAN TO BE WIRED THROUGH OCCUPANCY SENSOR SWITCH SERVING THIS SPACE. REFER TO LIGHTING PLANS. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.
E30	PROVIDE DEDICATED CIRCUIT FOR ELECTRIC WATER COOLER. PROVIDE 20A/1P BREAKER FOR CIRCUIT. COORDINATE WITH INSTALLATION OF WATER COOLER.
E31	PROVIDE RECEPTACLE FOR TV DISPLAY. MOUNT AT 5'-0" AFF. REFER TO CORRIDOR A ELEVATION ON SHEET A2.0
E32	DEMOLISH EXISTING NON-CODE COMPLIANT CONDUIT SUPPORTS AND PROVIDE NEW SUPPORTS FOR FULL LENGTH OF EXISTING CONDUIT RUN. CONDUIT SERVES PANEL G FEEDER AND IS 3-1/2 INCHES.
E33	LOCATE DISTRIBUTION PANEL AS CLOSE TO EXISTING MSB AS POSSIBLE. EXISTING WALL MOUNT EQUIPMENT ON PLAN NORTH WALL WILL FORCE PANEL LOCATION BEYOND WINDOW OPENING. PROVIDE UNISTRUT FRAMING TO FULLY SUPPORT DISTRIBUTION PANEL.
E34	PROVIDE FIRE RATED PENETRATION THROUGH SLAB ABOVE INTO NEW CHASE. REFER TO ARCHITECTURAL PLANS FOR CHASE LOCATION AND COORDINATE PENETRATION. REFER TO SHEET E6.3 FOR CONTINUATION ON FIRST FLOOR.
E35	FIELD VERIFY BEST CONDUIT PATH AND CROSS CORRIDOR WHERE FIT ALLOWS AND PROVIDE PULLBOXES OR LB, LL, LR FITTINGS AS REQUIRED FOR CABLE PULLING.
E36	REFER TO SHEET E6.3 FOR CONTINUATION.
E37	CONDUIT PENETRATES WALL ABOVE CEILING AND IS ROUTED BELOW SLAB OF FIRST FLOOR TO EXTERIOR OF BUILDING. REFER TO UE1.0 FOR CONTINUATION. EXACT PATH BELOW SLAB IS NOT KNOWN.
E38	PROVIDE 4" SPARE CONDUIT TO SITE. PENETRATE SLAB IN CORNER OF IDF ROOM. EXTEND CONDUIT TO 6" ABOVE BOTTOM OF PLYWOOF BACKBOARD. PROVIDE CONDUIT BUSHING AND PULLSTRING. REFER TO SHEET UE1.0 FOR CONTINUATION.
E41	PROVIDE POWER TO RECIRCULATION PUMP. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR.
E42	PROVIDE MOTOR RATED SWITCH ABOVE ACCESSIBLE CEILING AND LABEL ACCORDINGLY. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL SERVING HAND DRYER. (TYPICAL)
E43	PROVIDE POWER TO DOOR HARDWARE POWER SUPPLIES. REFER TO DOOR HARDWARE SPECIFICATIONS.
ED27	PROVIDE TEMPORARY SUPPORT FOR ALL CEILING DEVICES IN THIS AREA FOR NEW CEILING INSTALLATION. REINSTALL ALL DEVICES IN NEW CEILING. REFER TO SHEET A7.1 AND A7.2 FOR EXTEND OF CEILING WORK AND COORDINATE.

KEY PLAN



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CONSTRUCTION DOCUMENTS

E4.0

POWER PLANS

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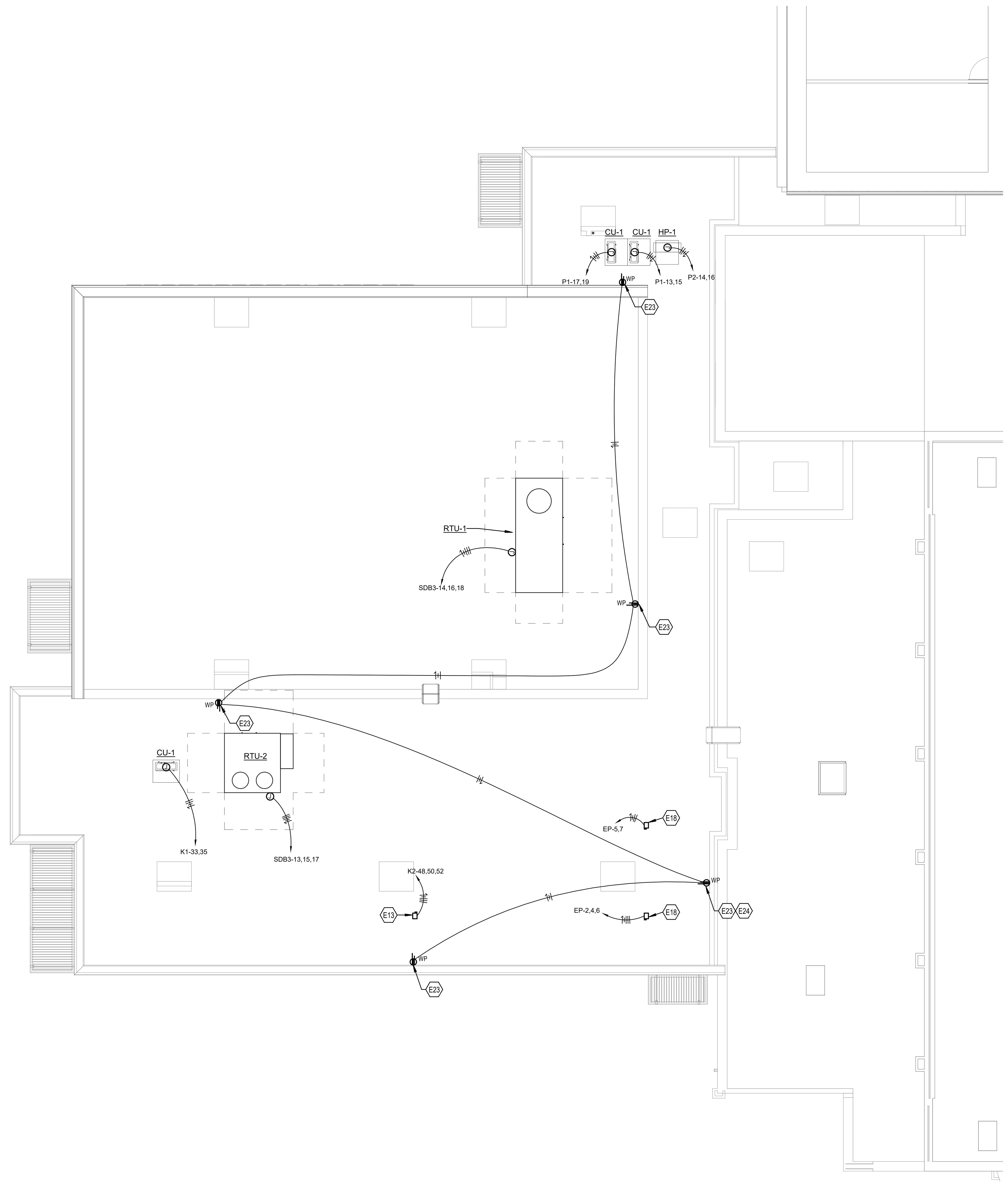

ROOF POWER PLAN
1/8" = 1'-0"
1
E4.1

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TAGGED NOTES

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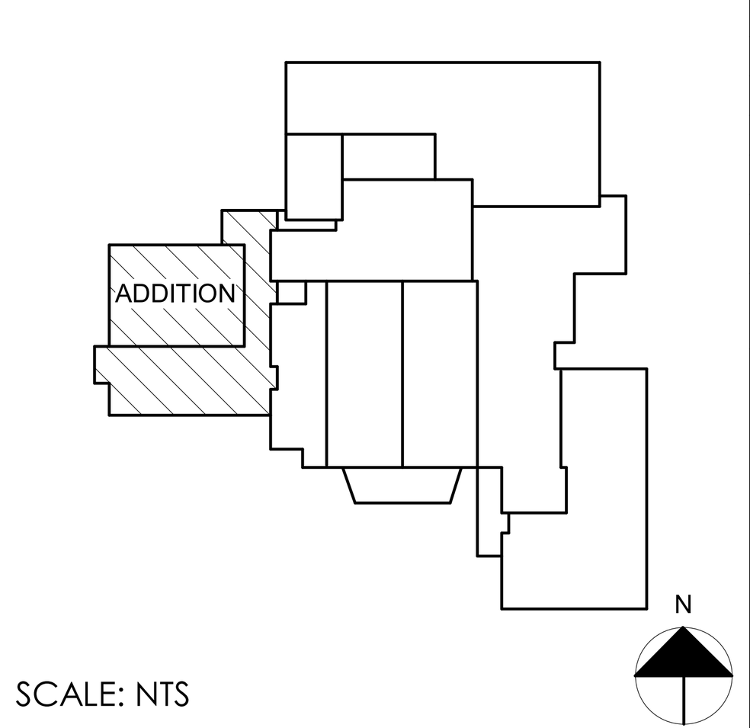
E13	PROVIDE 20A/3 POLE, HEAVY DUTY, NEMA 4X DISCONNECT SWITCH AND ELECTRICAL CONNECTION TO KITCHEN MAKE-UP AIR UNIT ON ROOF. PROVIDE UNISTRUT FRAMING ON WHICH TO MOUNT DISCONNECT. COORDINATE FINAL LOCATION WITH MECHANICAL. SEE FOOD SERVICE DRAWINGS AND MECHANICAL DRAWINGS FOR FURTHER INFORMATION. CONNECTION IS SINGLE POINT. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL CONNECTIONS ASSOCIATED WITH EQUIPMENT. UPON ACTIVATION OF HOOD SUPPRESSION SYSTEM THE EXHAUST AIR SHALL CONTINUE TO FUNCTION WHILE MAKE-UP AIR SHALL SHUNT OFF.
E18	PROVIDE 20A/3 POLE, HEAVY DUTY, NEMA 4X DISCONNECT SWITCH AND ELECTRICAL CONNECTION TO COMPRESSOR ON ROOF. PROVIDE UNISTRUT FRAMING ON WHICH TO MOUNT DISCONNECT. COORDINATE FINAL LOCATION WITH MECHANICAL. SEE FOOD SERVICE DRAWINGS AND MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
E23	MOUNT RECEPTACLE RECESSED IN BRICK. ROUTE CONDUIT CONEALED IN WALL TO ABOVE CEILING SPACE. DO NOT PENETRATE ROOF.
E24	LOCATE RECEPTACLE WITHIN 20 FEET OF KITCHEN COOLER/FREEZER CONDENSERS.

KEY PLAN



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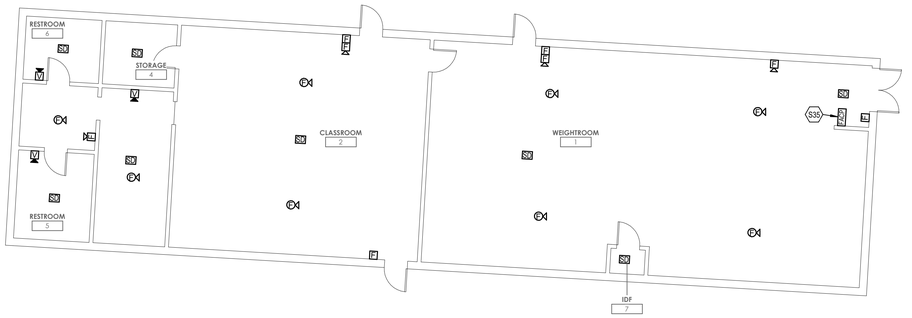

FIRST FLOOR SYSTEMS PLAN - AG BUILDING
1/8" = 1'-0"
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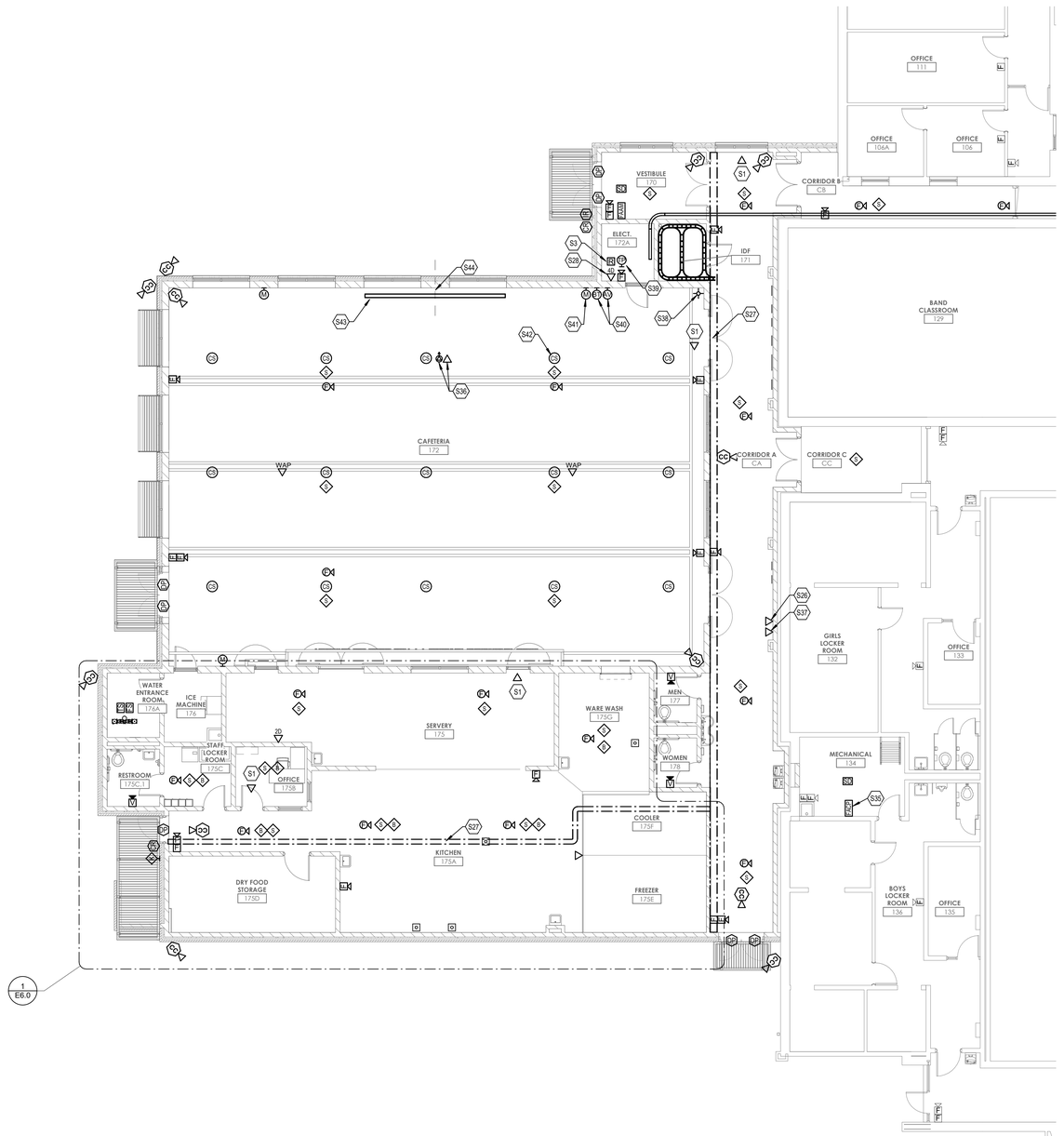

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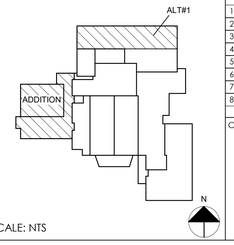
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.
- WHERE LOCATED ON EXISTING CMU WALLS ROUTE CONDUCTORS AND CABLING IN METAL WIREMOLD. LOCATE ALL LENGTHS OF VERTICAL WIREMOLD IN CORNER OF ROOM TO MINIMIZE APPEARANCE. PAINT WIREMOLD TO MATCH FINAL WALL FINISH. WIREMOLD SHALL BE MULTICHANNEL LEGRAND V2400D SERIES. REFER TO POWER PLANS AND COORDINATE WITH LINE VOLTAGE DEVICES TO BE ROUTED WITHIN SAME RUN OF WIREMOLD.
- WHERE LOCATED ON EXISTING SHEET ROCK WALLS CONTRACTOR SHALL RECESS DEVICES AND CONCEAL CONDUIT IN WALL CAVITY. PATCH, REPAIR, AND PAINT SHEET ROCK TO LIKE NEW FINISH.
- WHERE LOCATED ON EXISTING CMU WALLS ROUTE CONDUCTORS AND CABLING IN METAL WIREMOLD. LOCATE ALL LENGTHS OF VERTICAL WIREMOLD IN CORNER OF ROOM TO MINIMIZE APPEARANCE. PAINT WIREMOLD TO MATCH FINAL WALL FINISH. WIREMOLD SHALL BE MULTICHANNEL LEGRAND V2400D SERIES. REFER TO SYSTEMS PLANS AND COORDINATE WITH LOW VOLTAGE DEVICES TO BE ROUTED WITHIN SAME RUN OF WIREMOLD.
- WHERE LOCATED ON EXISTING SHEET ROCK WALLS CONTRACTOR SHALL RECESS DEVICES AND CONCEAL CONDUIT IN WALL CAVITY. PATCH, REPAIR, AND PAINT SHEET ROCK TO LIKE NEW FINISH.
- WHERE LOCATED ON EXISTING CMU WALLS ROUTE CONDUCTORS AND CABLING IN METAL WIREMOLD. PAINT WIREMOLD TO MATCH FINAL WALL FINISH. WIREMOLD SHALL BE SINGLE CHANNEL LEGRAND V500/V700 SERIES (V500/V700 APPLIES TO LIGHT SWITCHES AND LIGHT FIXTURES ONLY).
- WHERE LOCATED ON EXISTING SHEET ROCK WALLS CONTRACTOR SHALL RECESS DEVICES AND CONCEAL CONDUIT IN WALL CAVITY. PATCH, REPAIR, AND PAINT SHEET ROCK TO LIKE NEW FINISH.

TAGGED NOTES (##)

S1	PROVIDE DATA DROP FOR PAGING INTERCOM ZONE.
S3	PROVIDE ADDRESSABLE RELAY MODULE TO ALLOW MUTING OF CAFETERIA SOUND SYSTEM UPON FIRE ALARM ACTIVATION.
S26	PROVIDE DATA OUTLET FOR TV DISPLAY. MOUNT AT 5'-0" AFF AND LOCATE ADJACENT TO RECEPTACLE FOR DISPLAY. REFER TO CORRIDOR A ELEVATION ON SHEET A2.0
S27	PROVIDE 4" J-HOOK PATH ABOVE CEILING FOR LOW VOLTAGE CABLING. COORDINATE INSTALLATION WITH OTHER TRADES TO ENSURE PROPER CLEARANCES FOR CABLE ACCESS. REFER TO J-HOOK INSTALLATION DETAIL ON SHEET E7.0 FOR ADDITIONAL INFORMATION.
S28	PROVIDE DATA OUTLET FOR AV EQUIPMENT RACK. LOCATE OUTLET IN INTERIOR BACKPAN OF RACK. COORDINATE EXACT REQUIREMENTS WITH CAFETERIA AV SPECIFICATIONS.
S35	NEW VOICE FIRE ALARM PANEL IN AG BUILDING SHALL BE CONNECTED TO NEW VOICE FIRE ALARM PANEL IN SCHOOL BUILDING. PROVIDE FIBER OPTIC CABLE AS REQUIRED FOR THIS CONNECTION. PANEL IN SCHOOL BUILDING SHALL FUNCTION AS THE MASTER PANEL.
S36	PROVIDE PROJECTOR AND MOUNT PER CAFETERIA AV SPECIFICATIONS. PROVIDE TWO (2) 2" CONDUITS AND AV CABLING FROM PROJECTOR LOCATION AND ROUTE ABOVE CEILING TO AV RACK. PROVIDE DATA DROP TO PROJECT LOCATION. REFER TO SPECIFICATIONS AND AV SYSTEM RISER FOR ADDITIONAL REQUIREMENTS.
S37	PROVIDE DUAL GANG BACKBOX WITH EXTENSION RING FOR FUTURE AV CABLING. EXTEND 2 INCH CONDUIT FROM BACKBOX TO ABOVE CEILING SPACE AND PROVIDE PULLSTRING. MOUNT AT 5'-0" AFF AND LOCATE ADJACENT TO RECEPTACLE FOR DISPLAY. REFER TO CORRIDOR A ELEVATION ON SHEET A2.0
S38	LOCATE ANTENNA FOR CAFETERA AV SYSTEM IN CORNER AND CEILING MOUNT. REFER TO AV SPECIFICATIONS FOR ADDITIONAL INFORMATION.
S39	LOCATE AV TOUCH PANEL ADJACENT TO AV RACK ON WALL. REFER TO AV SPECIFICATIONS FOR ADDITIONAL INFORMATION. ROUTE CABLING IN 1 INCH CONDUIT TO AV RACK.
S40	REFER TO AV SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING BLUETOOTH AND AV INPUT MODULES. ROUTE CABLING IN 1 INCH CONDUITS TO AV RACK.
S41	REFER TO AV SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING MICROPHONE INPUT. ROUTE CABLING IN 1 INCH CONDUIT TO AV RACK. (TYPICAL)
S42	REFER TO AV SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SPEAKERS. ROUTE CABLING IN 1 INCH CONDUIT TO AV RACK. (TYPICAL)
S43	COORDINATE INSTALLATION OF RECESSED MOUNT MOTORIZED PROJECTOR SCREEN WITH ABOVE CEILING UTILITIES. COORDINATE WITH CEILING INSTALLER TO CUT CEILING TILE AROUND SCREEN BRACKET AND FRAME OUT AS REQUIRED. REFER TO AV SPECIFICATIONS FOR ADDITIONAL INFORMATION.
S44	PROJECTOR TO BE CENTERED ON SECTION OF CMU BETWEEN TWO WINDOWS.

KEY PLAN



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SYSTEMS PLANS

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION

FOR:

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BG# 19-262

Project No:	1904
Drawn By:	CH
Rev'd By:	CJC

SHEET RELEASE

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CONSTRUCTION DOCUMENTS

E5.0

SYSTEMS PLANS

DATE ISSUED:
9/13/19

REVISIONS		
#	DATE	DESCRIPTION

ELECTRICAL KITCHEN NOTES

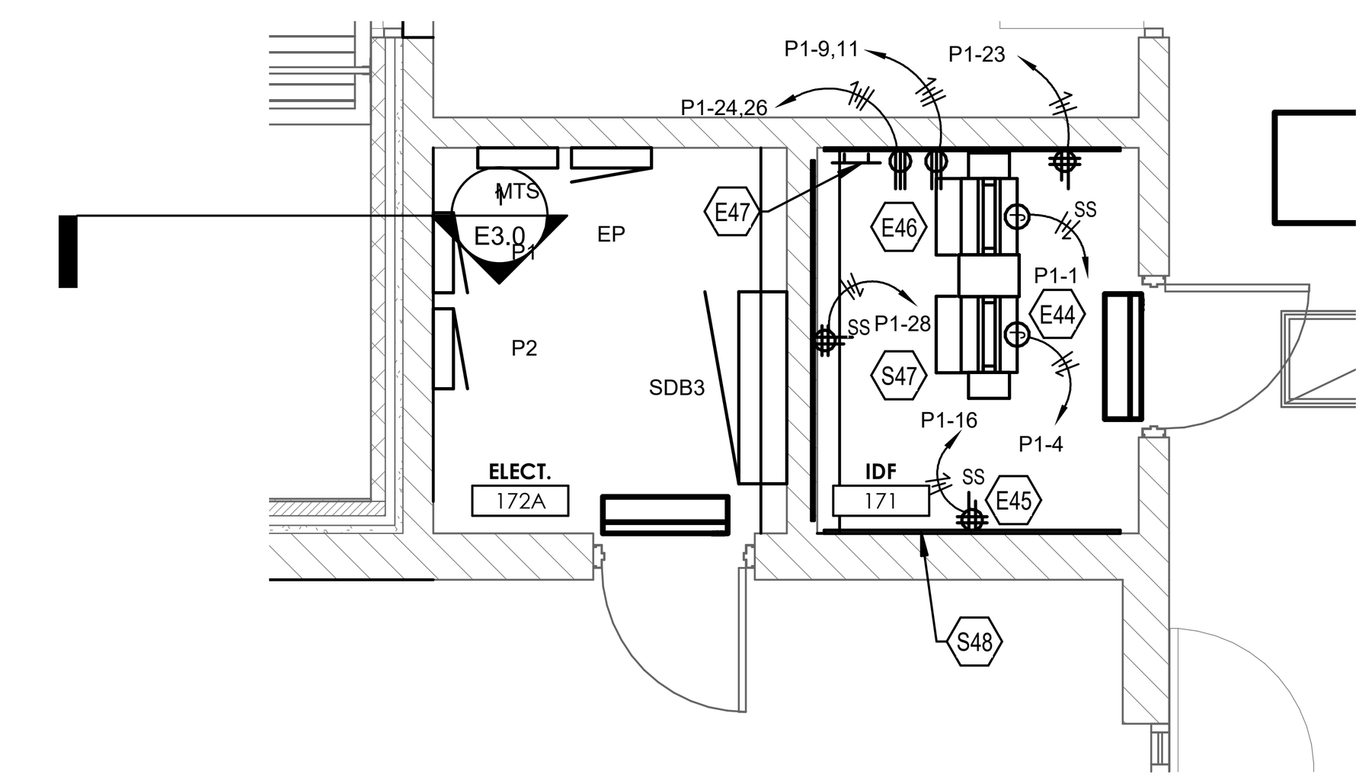
- PROVIDE BREAKER LOCK-OUT PROVISIONS IN PANELS FOR BREAKERS THAT SERVE HARD-WIRED KITCHEN EQUIPMENT CONNECTIONS.
- KITCHEN PLANS ARE BASED UPON COORDINATION WITH THE KITCHEN DESIGN CONSULTANT'S DRAWINGS. ALL ROUGH-INS AND FINAL CONNECTIONS SHALL BE VERIFIED WITH KITCHEN EQUIPMENT SHOP DRAWINGS AND ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- FOR ALL CIRCUITS SERVING RECEPTACLES AND EQUIPMENT IN KITCHEN AND SERVING AREAS, PROVIDE "GFCI" TYPE CIRCUIT BREAKERS FOR THOSE CIRCUITS. FOR ALL RECEPTACLES THAT ARE CONNECTED TO "GFCI" CIRCUIT BREAKERS, PROVIDE PERMANENT LABELS ON THE RECEPTACLE COVERPLATE INDICATING "GFCI" PROTECTED CIRCUIT".
- PROVIDE #302 STAINLESS STEEL COVERPLATES ON ALL OUTLETS LOCATED ON A WALL WITH STAINLESS STEEL COVERINGS. VERIFY LOCATIONS OF THESE STAINLESS STEEL WALLS WITH THE KITCHEN VENDOR DRAWINGS / SHOP DRAWINGS.
- REFER TO KITCHEN ELECTRICAL CONNECTIONS SCHEDULES FOR MOUNTING HEIGHTS OF RECEPTACLES AND JUNCTION BOXES.
- VERIFY EXACT OUTLET NEMA CONFIGURATIONS WITH EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION.

ELECTRICAL ENLARGED...

- CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

TAGGED NOTES (##)

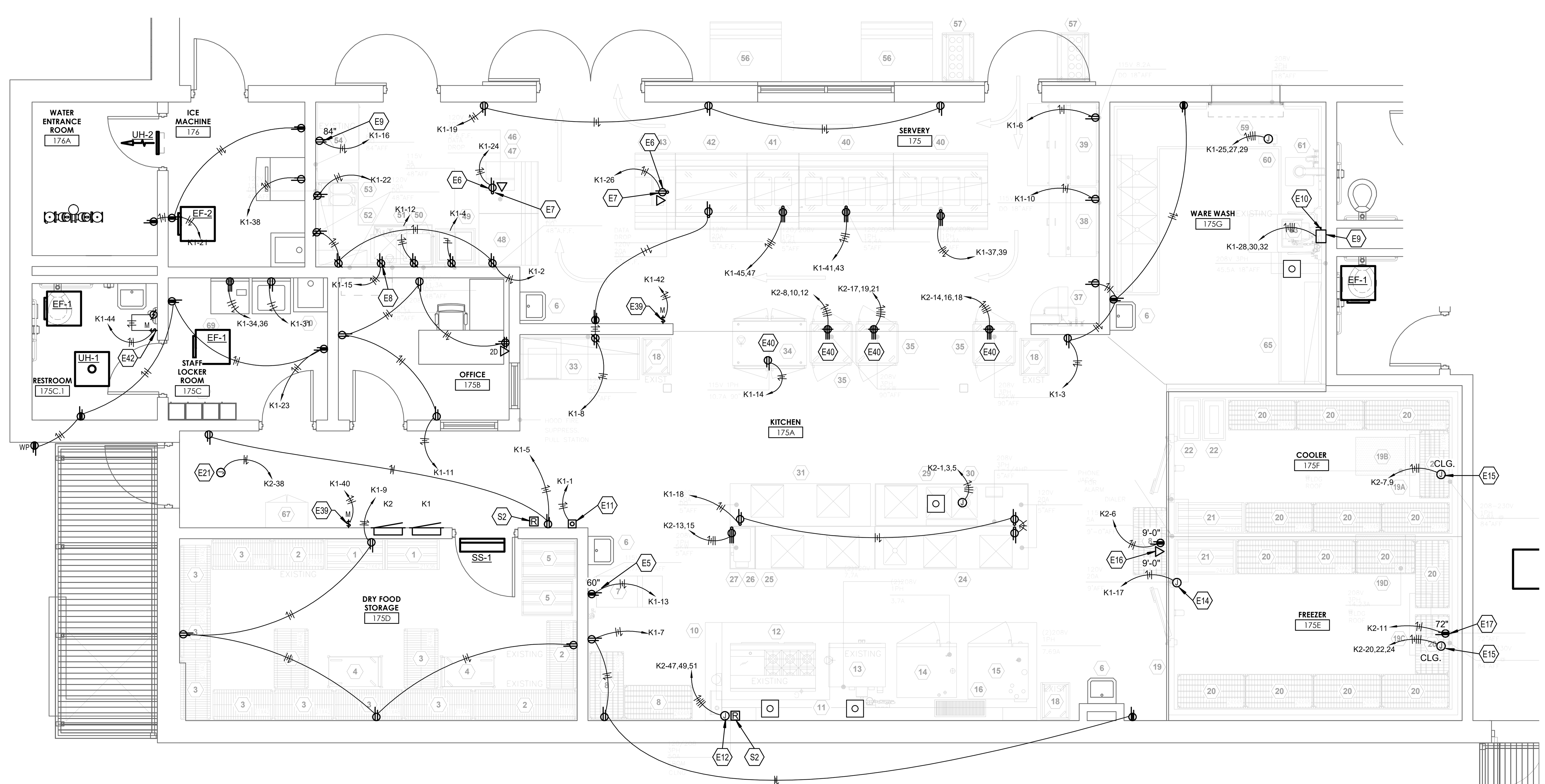
E5	ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CORD/PLUG FOR ICE MACHINE.
E6	ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL RATING AND PLUG TYPE OF POINT OF SALE EQUIPMENT.
E7	PROVIDE POWER CONNECTION TO CONVENIENCE OUTLET PROVIDED WITH CASHIER STATION.
E8	ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CORD/PLUG FOR TWIN COFFEE BREWER.
E9	ELECTRICAL CONTRACTOR SHALL VERIFY CONNECTION REQUIREMENT OF EXISTING EQUIPMENT BEFORE BIDDING.
E10	ELECTRICAL CONTRACTOR SHALL COMPLETE ALL WIRING ASSOCIATED WITH DRAIN WATER TEMPERING KIT.
E11	PROVIDE MUSHROOM HEAD EMERGENCY PUSHBUTTON WITH PLAQUE FOR EQUIPMENT UNDER KITCHEN/RANGE HOOD.
E12	PROVIDE ELECTRICAL CONNECTION FROM ABOVE CEILING TO ENERGY DISTRIBUTION SYSTEM. ELECTRICAL CONTRACTOR TO INTERWIRE CONTROL SWITCHES ON ENERGY DISTRIBUTION SYSTEM WITH HOOD LIGHTS AND HOOD SYSTEM FANS AS WELL AS INTERWIRE FIRE SUPPRESSION SYSTEM TO CONNECTION POINTS ON ENERGY DISTRIBUTION SYSTEM. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION. CIRCUIT BREAKER SERVING EDS SHALL BE SHUNT-TRIP TYPE.
E14	PROVIDE ELECTRICAL CONNECTION TO FREEZER/COOLER LIGHT JUNCTION BOX. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
E15	PROVIDE ELECTRICAL CONNECTION FROM ABOVE INTO WALK-IN BOX FOR BLOWER COIL. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
E16	PROVIDE RECEPTACLE AND PHONE JACK AT ROOF OF WALK-IN BOX AS SHOWN FOR ALARM PHONE DIALER. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
E17	PROVIDE DUPLEX RECEPTACLE MOUNTED ON INTERIOR BACK WALL OF FREEZER AT 72" FOR CONDENSATE HEAT TAPE.
E21	PROVIDE POWER CONNECTION TO KITCHEN BUZZER POWER SUPPLY. COORDINATE EXACT REQUIREMENTS WITH SYSTEM.
E39	PROVIDE 120V DEDICATED CIRCUIT AND DISCONNECT FOR TRAP PRIMER. COORDINATE WITH PLUMBING CONTRACTOR.
E40	CIRCUIT TO BE FED FROM CEILING. COORDINATE EXACT REQUIREMENTS WITH FOOD SERVICE DRAWINGS AND EQUIPMENT. PROVIDE MOUNTING HARDWARE TO SECURE OUTLET TO CEILING AND SAFETY WIRE FOR SUPPORT FROM STRUCTURE.
E42	PROVIDE MOTOR RATED SWITCH ABOVE ACCESSIBLE CEILING AND LABEL ACCORDINGLY. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL SERVING HAND DRYER. (TYPICAL)
E44	PROVIDE DEDICATED CIRCUIT TO RACK MOUNT RACEWAY. COORDINATE WITH RACK REQUIREMENTS. (TYPICAL)
E45	PROVIDE SURGE SUPPRESSION TYPE QUAD RECEPTACLE AND FLUSH MOUNT IN PLYWOOD BACKBOARD. (TYPICAL)
E46	COORDINATE POWER FOR UPS WITH VOICE DATA SPECIFICATIONS. (TYPICAL)
E47	PROVIDE 12 INCH LONG TELECOMMUNICATIONS GROUNDING BUS BAR (TGM). EXTEND #1/0 INSULATED COPPER GROUND IN 2" CONDUIT TO MDF ROOM. REFER TO SHEET E6.3 OVERALL PLAN FOR MDF LOCATION. REFER TO SHEET E7.0 FOR ADDITIONAL INFORMATION.
S2	PROVIDE FIRE ALARM CONNECTION WITH HOOD SUPPRESSION SYSTEM. PROVIDE ALL INTERCONNECTION REQUIRED BETWEEN SUPPRESSION SYSTEM AND HOOD CONTROL PANEL. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
S47	PROVIDE TWO-POST RACK WITH VERTICAL WIRE MANAGEMENT AND ALL REQUIRED MOUNTING HARDWARE. REFER TO SYSTEMS PLANS FOR LADDER TRAY LAYOUT WITHIN IDF ROOM. BOND TRAY TO TGB IN ROOM USING #4 INSULATED COPPER WIRE. (TYPICAL)
S48	PROVIDE FIRE RETARDANT PLYWOOD BACKBOARD ON WALLS AS INDICATED. EXTEND TO 6 INCHES FROM FLOOR AND 3 INCHES FROM CORNERS OF ROOM. (TYPICAL)



FIRST FLOOR POWER PLAN - ENLARGED ELECTRICAL AND IDF ROOMS
1/4" = 1'-0"
2 E6.0

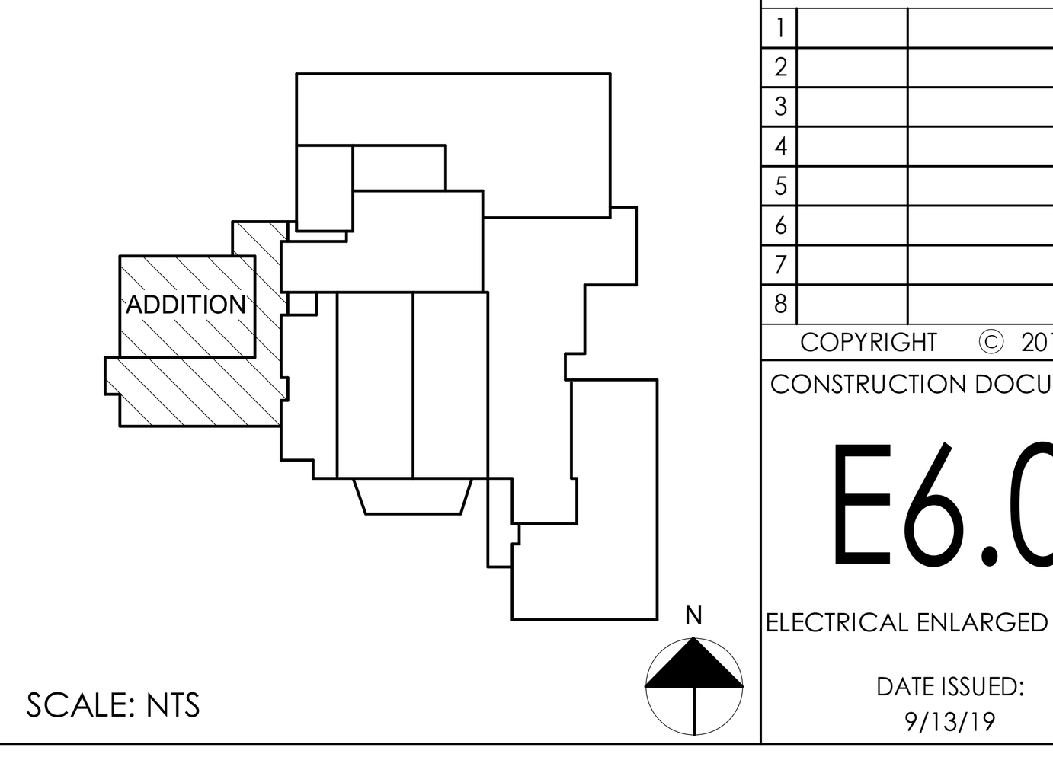
KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	NO. REQ'D	DESCRIPTION	WATER HOT	WATER COLD	WASTE	ELECTRICAL KW.	HP	V/PH	AMPS	CONN.	MTG. HT.	3 PH KW LOAD'G	GAS SIZE	BTU'S	RESPONSIBILITY FURN. BY	INSTALL BY	CONN. MC	PC	EC	MANUFACTURER
1	2	DUNNAGE RACK - DRY STORAGE													K.E.C.	K.E.C.				
2	1 LOT	SHELVING - DRY STORAGE EXISTING													O.S.	K.E.C.				(1)
3	1 LOT	SHELVING - DRY STORAGE													K.E.C.	K.E.C.				
4	2	UTILITY CART													K.E.C.	K.E.C.				
5	2	CAN RACK EXISTING													O.S.	K.E.C.				(1)
6	4	HAND SINK													P.C.	P.C.				
7	1	ICE MACHINE W/STORAGE BIN		1/2"	FD			208/1	9.7	PLUG	60"AFF				K.E.C.	K.E.C.				(3)
8	3	SHELVING - POT & PAN													K.E.C.	K.E.C.				
9		OPEN NUMBER																		
10	1	HOOD - CANOPY						120/1	2.6	DIR	ABV CLNG				K.E.C.	K.E.C.			*	(4)(5)(6)
	1	HOOD - EXHAUST AIR FAN					2	208/3		DIR	@ BLDG ROOF				K.E.C.	K.E.C.			*	(4)(7)(9)
	1	HOOD - SUPPLY AIR & FURNACE					2	208/3	13.95	DIR	@ BLDG ROOF		1"	564.25M	K.E.C.	K.E.C.		*	*	(4)(7)(8)(9)
11	1	ENERGY DISTRIBUTION SYSTEM	3/4"	1"				120/208/3	50	DIR	FROM ABV CEILING		1-1/2"	1,158M	K.E.C.	K.E.C.				(9)(10)(11)(12)
12	1	6-BURNER RANGE W/GRIDDLE & OVENS EXISTING											3/4"	278M	O.S.	K.E.C.				(1)(2)(10)
13	1	CONVECTION OVEN - DBL. STACK EXISTING						(2)120/1	7.7 EA.	PLUG			3/4"	100M	O.S.	K.E.C.				(1)(2)(10)
14	1	COMBI OVEN - DBL. STACK		(4)3/4"	FS			(2)208/1	3.7 EA.	PLUG			(2)3/4"	106M EA.	K.E.C.	K.E.C.				(10)(13)(14)
15	1	COMBI OVEN - ROLL-IN		(2)3/4"	FS			208/1	7.69	PLUG			3/4"	336M	K.E.C.	K.E.C.				(10)(13)(14)
16	1	FLOOR TROUGH			4"										K.E.C.	K.E.C.				
17		OPEN NUMBER																		
18	3	BUN PAN RACKS EXISTING													O.S.	K.E.C.				(1)
19	1	WALK-IN COOLER/FREEZER						(2)120/1 115/1	(2)20 5	(1)DIR (2)PLUG	SEE FLOOR				K.E.C.	K.E.C.			*	(16)(17)(18)
	1	BLOWER COIL - COOLER			FD			208/1	9.8	DIR	84"AFF				K.E.C.	K.E.C.				(19)
	1	COMPRESSOR - COOLER						208/1	10.1	DIR	@ BLDG ROOF				K.E.C.	K.E.C.			*	(20)(22) COMPRESSOR WGT: 170 LBS
	1	BLOWER COIL - FREEZER			FD			208/3	13.25	DIR	84"AFF				K.E.C.	K.E.C.				(19)
	1	COMPRESSOR - FREEZER						208/3	14.23	DIR	@ BLDG ROOF				K.E.C.	K.E.C.			*	(21)(22) COMPRESSOR WGT: 192 LBS
20	1 LOT	SHELVING - COOLER/FREEZER													K.E.C.	K.E.C.				
21	2	DUNNAGE RACKS - COOLER/FREEZER													K.E.C.	K.E.C.				
22	2	MILK CRATE DOLLY													K.E.C.	K.E.C.				
23		OPEN NUMBER																		
24	1	WORK TABLE W/SINK	1/2"	1/2"	2"										K.E.C.	K.E.C.		*		(23)
25	1	WORK TABLE													K.E.C.	K.E.C.				
26	1	HOT WATER DISPENSER	1/4"			5		208/1	24	PLUG	5"AFF				K.E.C.	K.E.C.		*		(23)
27	1	WORK TABLE													K.E.C.	K.E.C.				
28		OPEN NUMBER																		
29	1	PREP SINK W/CHASE	1/2"	1/2"	FS										K.E.C.	K.E.C.		*		
30	1	DISPOSER		1/2"	3"		1-1/4	208/3	3.7	DIR	5"AFF				K.E.C.	K.E.C.		*	*	(23)
31	1	WORK TABLE													K.E.C.	K.E.C.				
32		OPEN NUMBER																		
33	1	BAKER'S TABLE W/CANTILEVER OVERSHELF													K.E.C.	K.E.C.				
34	1	PASS-THRU REFRIGERATOR					1/3	115/1	10.7	PLUG	90"AFF				K.E.C.	K.E.C.				
35	3	PASS-THRU HEAT & HOLD				12		208/3		PLUG	90"AFF				K.E.C.	K.E.C.			*	
36		OPEN NUMBER																		
37	1	HOSE REEL - 30 FT.	1/2"	1/2"											K.E.C.	K.E.C.		*		
38	1	MILK COOLER					1/3	115/1	8.2	PLUG	18"AFF				K.E.C.	K.E.C.				
39	1	MILK COOLER					1/2	115/1	4.2	PLUG	18"AFF				K.E.C.	K.E.C.				
40	2	HOT/COLD/FROZEN FOOD TABLE			FD			120/208/1	14.4	PLUG	5"AFF				K.E.C.	K.E.C.			*	
41	1	HOT/COLD/FROZEN FOOD TABLE			FD			120/208/1	9.6	PLUG	5"AFF				K.E.C.	K.E.C.			*	
42	1	SOLID TOP TABLE													K.E.C.	K.E.C.				
43	1	CASHIER STATION						120/1	12	PLUG	5"AFF				K.E.C.	K.E.C.				
44	1	POINT OF SALE						120/1	10	PLUG					B.O.	B.O.				(24)(25)
45		OPEN NUMBER																		
46	1	CASHIER STATION						120/1	12	PLUG	5"AFF				K.E.C.	K.E.C.				
47	1	POINT OF SALE						120/1	10	PLUG					B.O.	B.O.				(24)(25)
48	1	SOLID TOP TABLE													K.E.C.	K.E.C.				
49	1	ICE CREAM DISPLAY FREEZER						115/1	3.5	PLUG	48"AFF				K.E.C.	K.E.C.				
50	1	HEATED DISPLAY MERCHANDISER				1.39		120/1	11.3	PLUG	48"AFF				K.E.C.	K.E.C.				
51	1	TWIN COFFEE BREWER		1/2"				120/208/1	28.3	PLUG	48"AFF				K.E.C.	K.E.C.		*	*	
52	1	WORK TABLE W/OVERSHELVES													K.E.C.	K.E.C.				
53	1	DUAL SLUSHIE MACHINE		1/2"		1.44		120/1	12	PLUG	48"AFF				K.E.C.	K.E.C.				
54	1	GLASS DOOR MERCHANDISER EXISTING						115/1	8.8	PLUG	84"AFF				O.S.	K.E.C.				(1)(2)
55		OPEN NUMBER																		
56	2	SOLID TOP TABLE													K.E.C.	K.E.C.				
57	2	TRAY & FLATWARE CART													K.E.C.	K.E.C.				
58		OPEN NUMBER																		
59	1	SOILED DISH TABLE W/SCRAP & POT SINKS	(2)1/2"	(2)1/2"	2" & FS										K.E.C.	K.E.C.		*		
60	1	DISPOSER		1/2"	3"		2	208/3	6	DIR	18"AFF				K.E.C.	K.E.C.		*	*	(26)
61	1	HOSE REEL - 30 FT.	1/2"	1/2"											K.E.C.	K.E.C.		*		
62		OPEN NUMBER																		
63	1	DISHWASHER EXISTING	1/2"	1/2"	FS			208/3	45.4	DIR	18"AFF				O.S.	K.E.C.		*	*	(1)(2)(14)
64		OPEN NUMBER																		
65	1	CLEAN DISH TABLE W/OVERSHELF													K.E.C.	K.E.C.				
66		OPEN NUMBER																		
67	1	STORAGE CABINET - CHEMICAL													K.E.C.	K.E.C.				
68	1 LOT	EMPLOYEE LOCKERS													B.O.	B.O.				
69	1 SET	CLOTHES WASHER & DRYER													B.O.	B.O.		*		
70	1	MOP SINK													P.C.	P.C.		*		



FIRST FLOOR ENLARGED ELECTRICAL KITCHEN PLAN
1/4" = 1'-0"
1 E6.0

KEY PLAN



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ELECTRICAL ENLARGED PLANS
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FOR:
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Project No: 1904
Drawn By: CH
Rev'd By: CJC

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CONSTRUCTION DOCUMENTS

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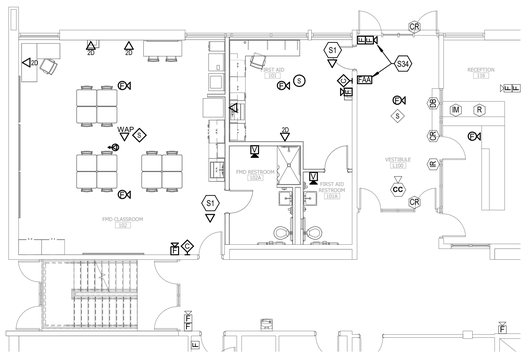
ELECTRICAL ENLARGED PLANS

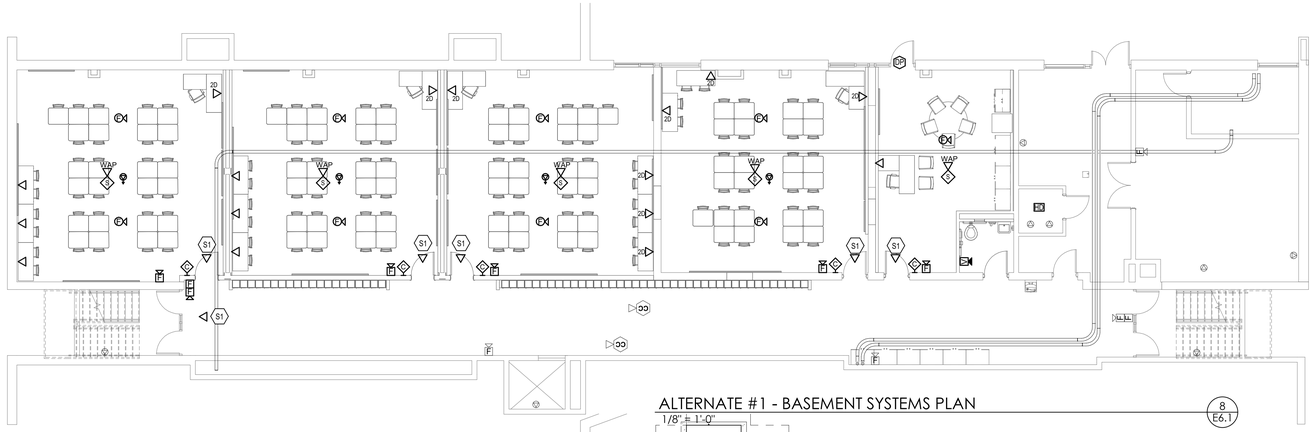
DATE ISSUED:
9/13/19

REVISIONS

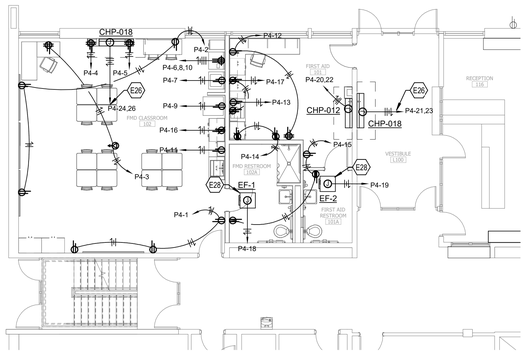
#	DATE	DESCRIPTION



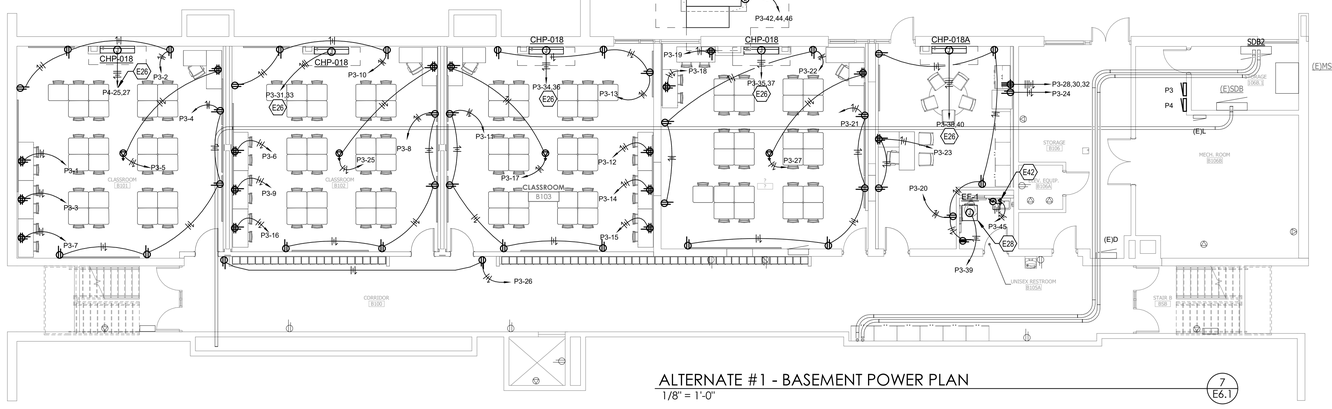
ALTERNATE #2 - FIRST FLOOR SYSTEMS PLAN
1/8" = 1'-0"
4 E6.1



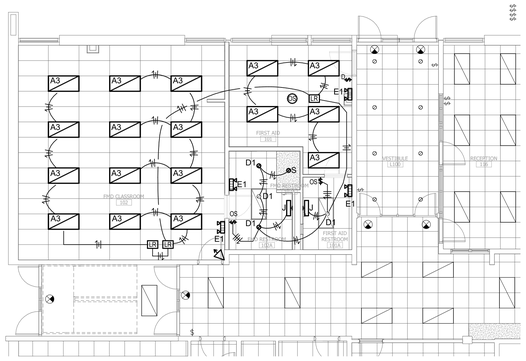
ALTERNATE #1 - BASIMENT SYSTEMS PLAN
1/8" = 1'-0"
8 E6.1



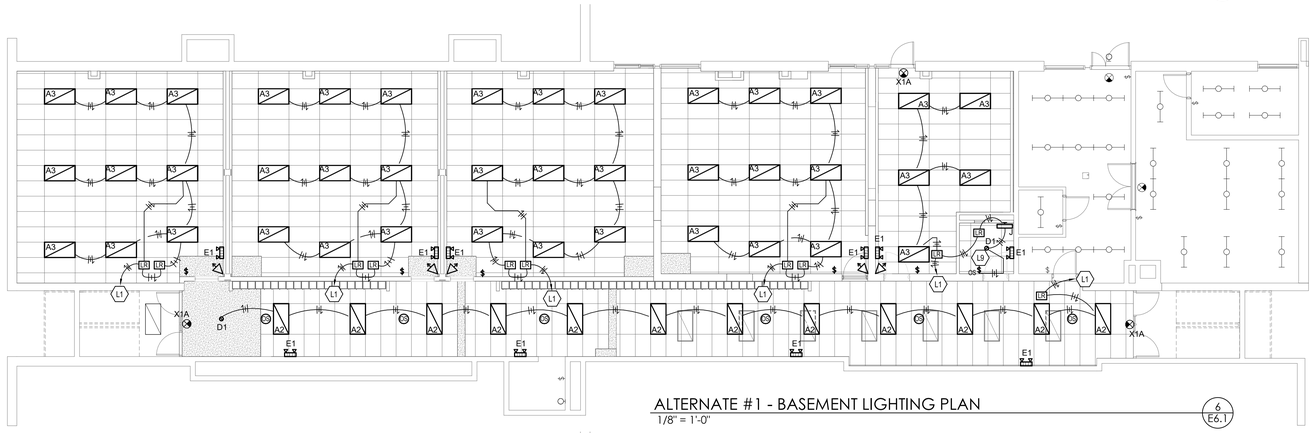
ALTERNATE #2 - FIRST FLOOR POWER PLAN
1/8" = 1'-0"
3 E6.1



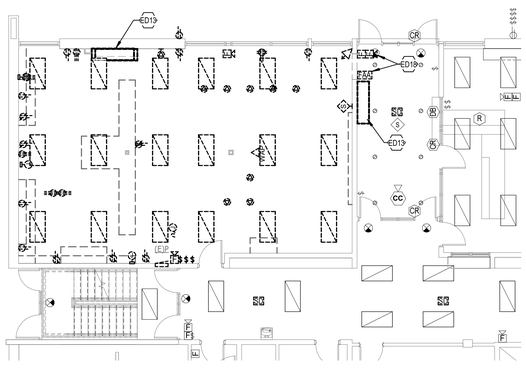
ALTERNATE #1 - BASEMENT POWER PLAN
1/8" = 1'-0"
7 E6.1



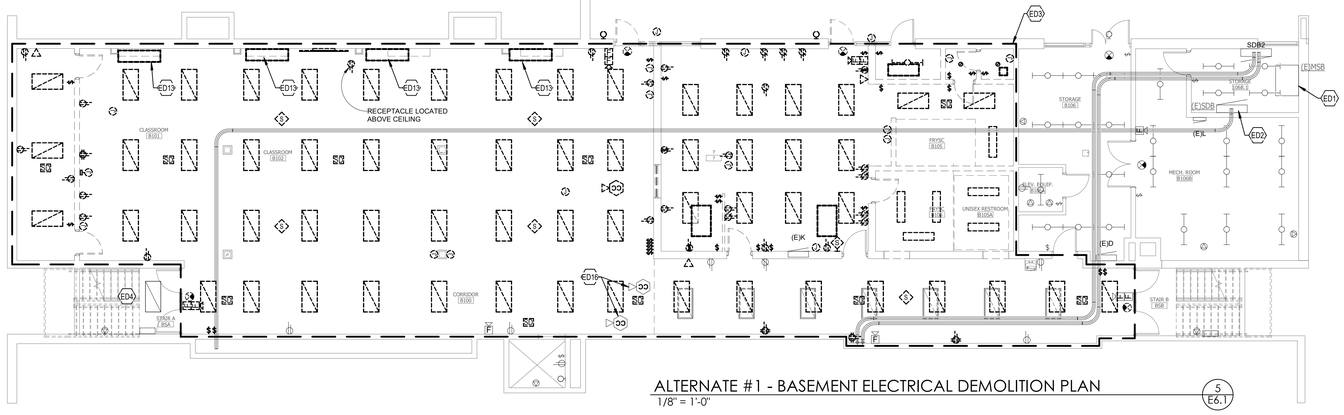
ALTERNATE #2 - FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"
2 E6.1



ALTERNATE #1 - BASEMENT LIGHTING PLAN
1/8" = 1'-0"
6 E6.1



ALTERNATE #2 - FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"
1 E6.1



ALTERNATE #1 - BASEMENT ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"
5 E6.1

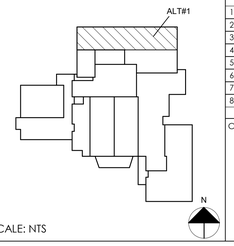
ELECTRICAL ALTERNATES...

- THE GENERAL DEMOLITION, LIGHTING, POWER, AND SYSTEMS NOTES ON SHEETS E2.0, E3.0, E4.0, AND E5.0 SHALL ALSO APPLY TO THE WORK SHOWN ON THIS SHEET. CONTRACTOR SHALL REFERENCE THESE NOTES WHEN BIDDING THIS WORK.

TAGGED NOTES (##)

E26	EXTEND EXISTING HVAC CIRCUIT IN THIS LOCATION TO NEW UNIT. CONCEAL CONDUIT AND WIRING INSIDE NEW MECHANICAL CHASE. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE NEW 15A/2P BREAKER IN EXISTING PANEL TO SERVE UNIT AND EXTEND WIRING AS REQUIRED TO NEW BREAKER.
E28	EXHAUST FAN TO BE WIRED THROUGH OCCUPANCY SENSOR SWITCH SERVING THIS SPACE. REFER TO LIGHTING PLANS. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.
E42	PROVIDE MOTOR RATED SWITCH ABOVE ACCESSIBLE CEILING AND LABEL ACCORDINGLY. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL SERVING HAND DRYER. (TYPICAL)
ED1	EXISTING 1600A, 208/3P/4W SQUARE D SERVICE ENTRANCE SWITCHBOARD TO REMAIN.
ED2	EXISTING 800A, 208/3P/4W SQUARE D DISTRIBUTION PANEL TO REMAIN.
ED3	MAINTAIN LIGHTING CIRCUIT HOMERUNS FOR NEW LIGHTS IN THIS AREA.
ED4	REFEED STAIRWELL LIGHTS AND DEVICES TO KEEP OPERATIONAL DURING CONSTRUCTION.
ED13	DEMOLISH ELECTRICAL CONNECTION AT UNIT TO ABOVE CEILING SPACE. MAINTAIN CIRCUIT TO EXTEND TO NEW HVAC EQUIPMENT IN SAME APPROXIMATE LOCATION. DEMOLISH THREE-POLE BREAKER IN PANEL AND PREPARE FOR NEW TWO-POLE BREAKER IN SAME PANEL POSITION. REFER TO NEW WORK POWER PLANS FOR ADDITIONAL INFORMATION.
ED16	REMOVE CEILING MOUNT DEVICE FOR CEILING WORK. MAINTAIN CONDUIT AND CABLING AND REINSTALL DEVICE IN SAME LOCATION WHEN CEILING WORK IS COMPLETE.
ED18	REMOVE FIRE ALARM ANNUNCIATOR, PULLSTATION, AND NOTIFICATION DEVICE FOR INSTALLATION OF NEW DOOR. REINSTALL DEVICES IN THIS AREA AND EXTEND CABLING IN NEW WIREMOLD. PAINT WIREMOLD TO MATCH WALL FINISH. REFER TO ALTERNATE PLANS FOR LOCATIONS.
L1	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.
L9	PROVIDE DUAL RELAY LIGHTING/EXHAUST FAN OCCUPANCY SENSOR SWITCH. PROVIDE ALL REQUIRED WIRING FOR CONTROL OF EXHAUST FAN. SWITCH SHALL ALLOW A SECOND SEPARATELY CONTROLLED TIME DELAY UPON VACANCY SETTING FOR EXHAUST FAN TO ALLOW FAN TO OPERATE FOR AN EXTENDED PERIOD OF TIME AFTER LIGHTS HAVE SHUT OFF.
S1	PROVIDE DATA DROP FOR PAGING INTERCOM ZONE.
S34	REINSTALL FIRE ALARM DEVICES AND PROVIDE NEW WIREMOLD. PAINT WIREMOLD TO MATCH WALL FINISH.

KEY PLAN



SCALE: NTS

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BG#	19-262
Project No:	1904
Drawn By:	CH
Rev'd By:	CJC

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CONSTRUCTION DOCUMENTS

E6.1

ALTERNATES #1 & #2

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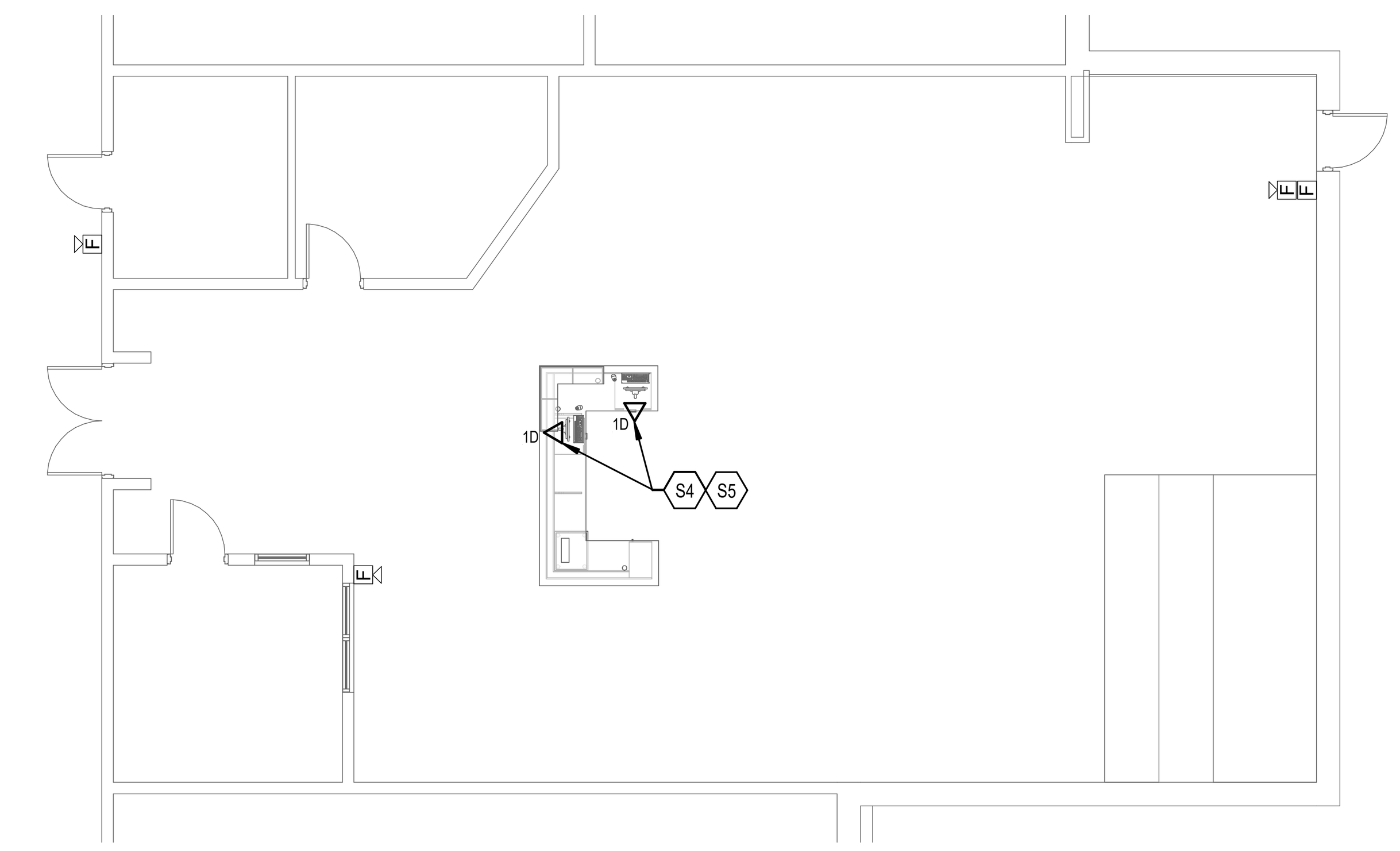
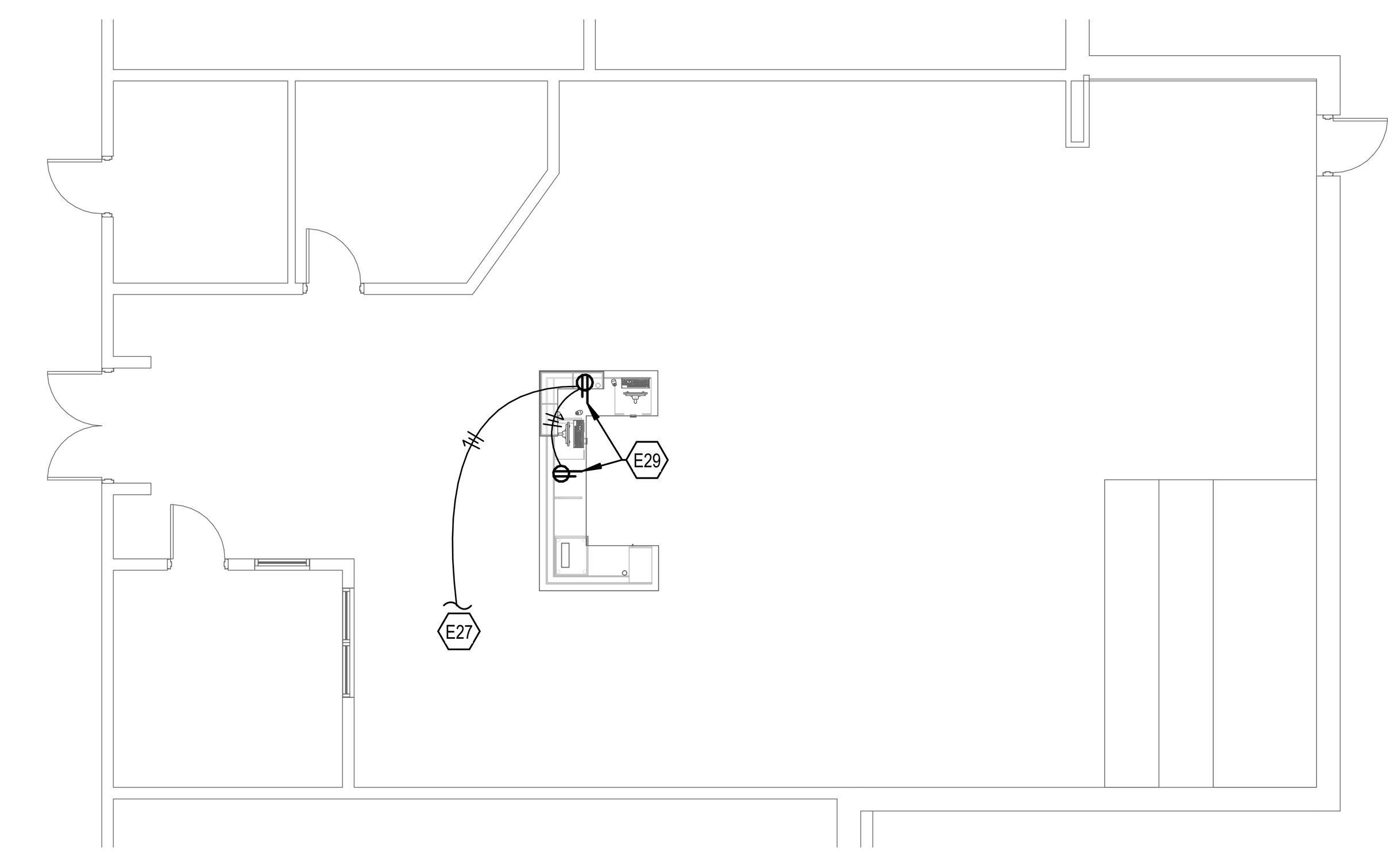
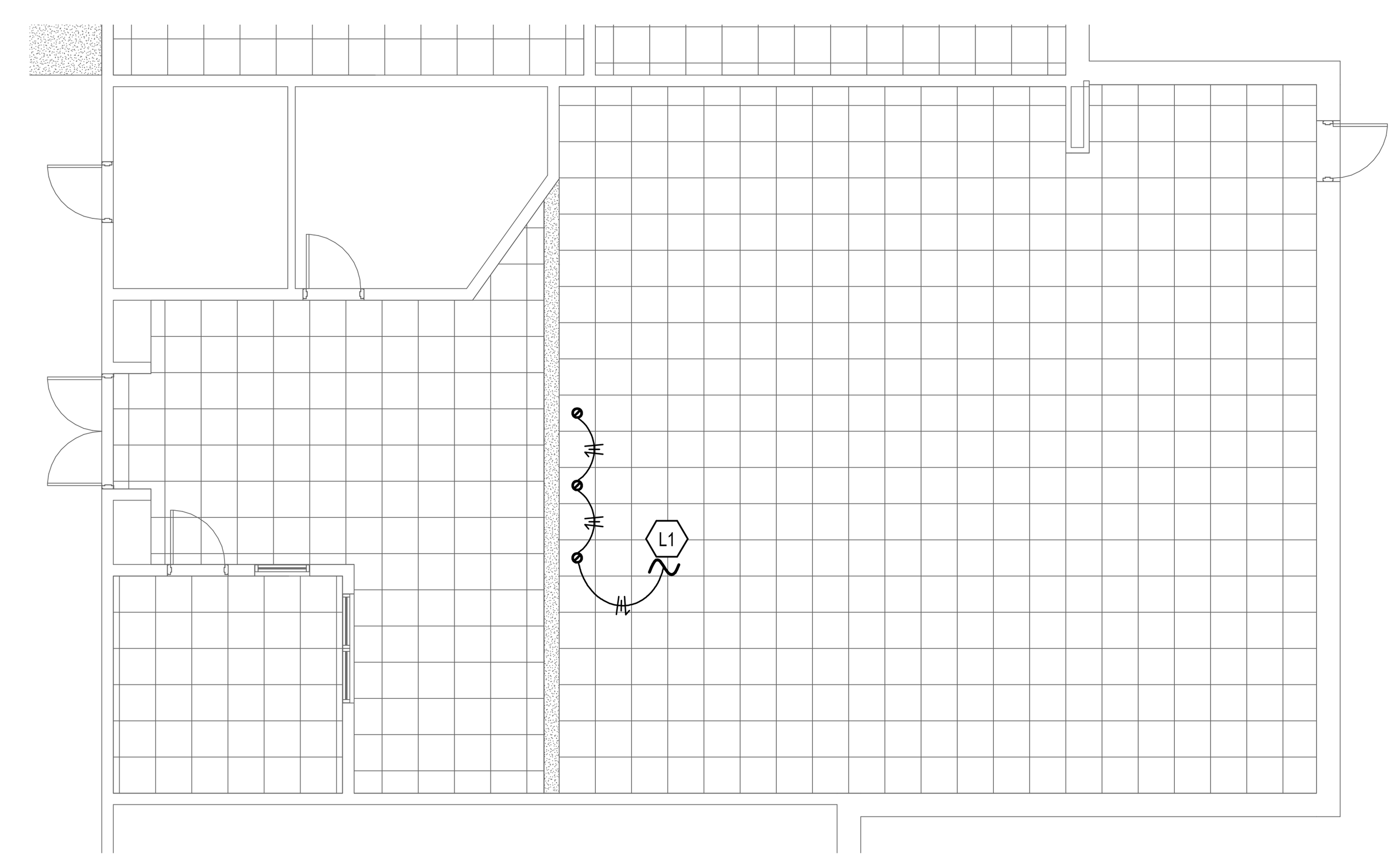


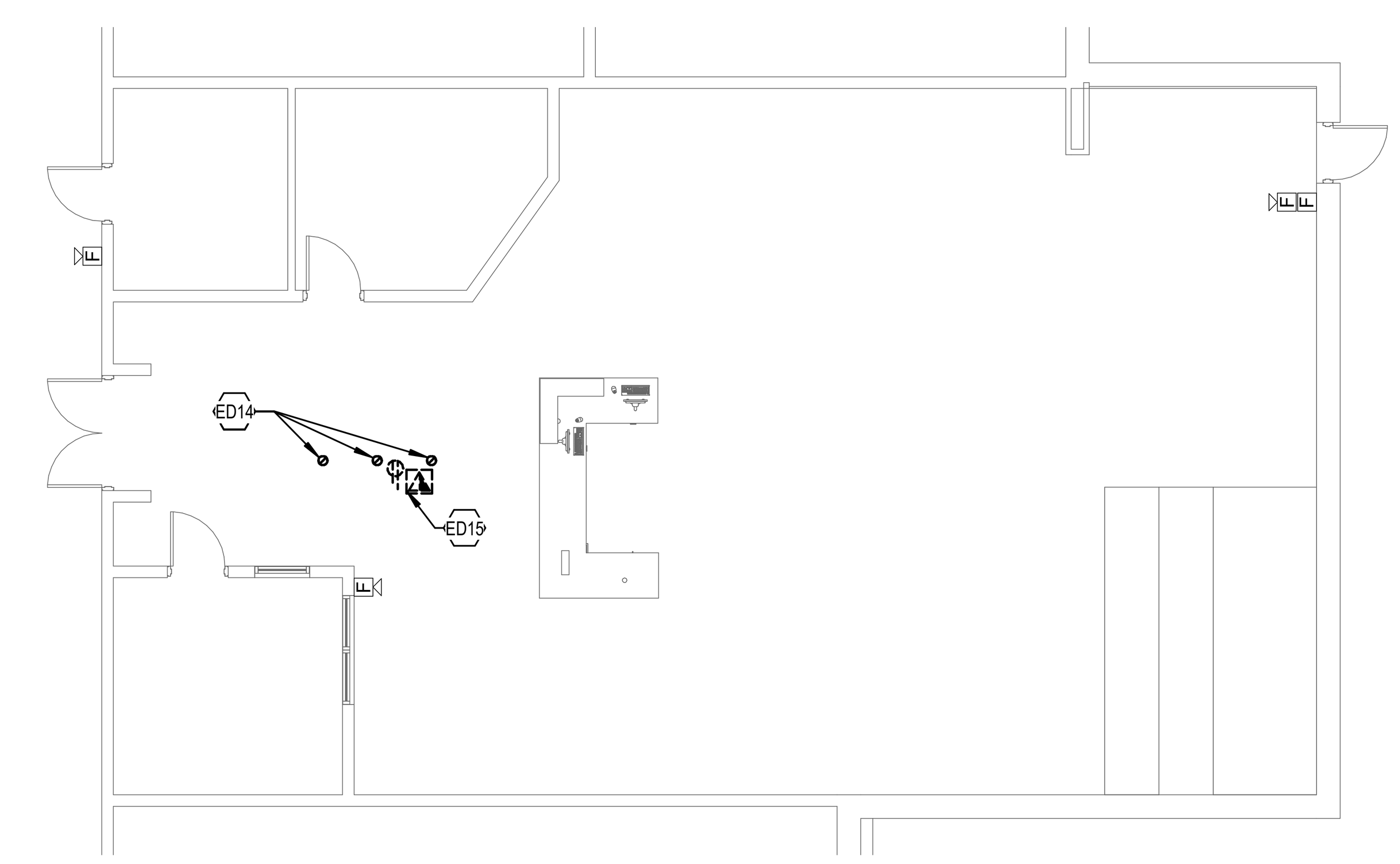
ALTERNATE #3 - LEVEL 1 SYSTEMS PLAN 4 E6.2
1/8" = 1'-0"



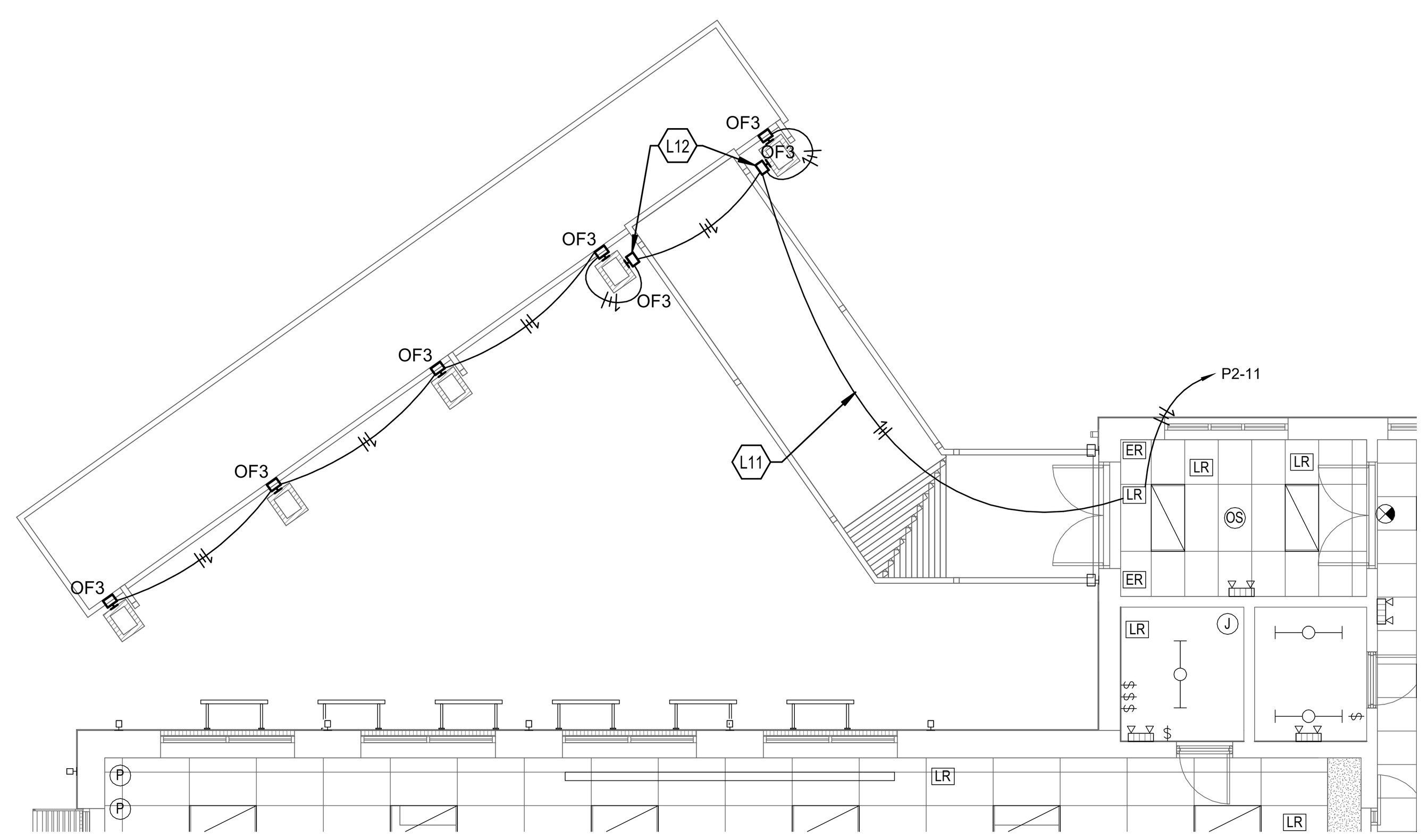
ALTERNATE #3 - LEVEL 1 POWER PLAN 3 E6.2
1/8" = 1'-0"



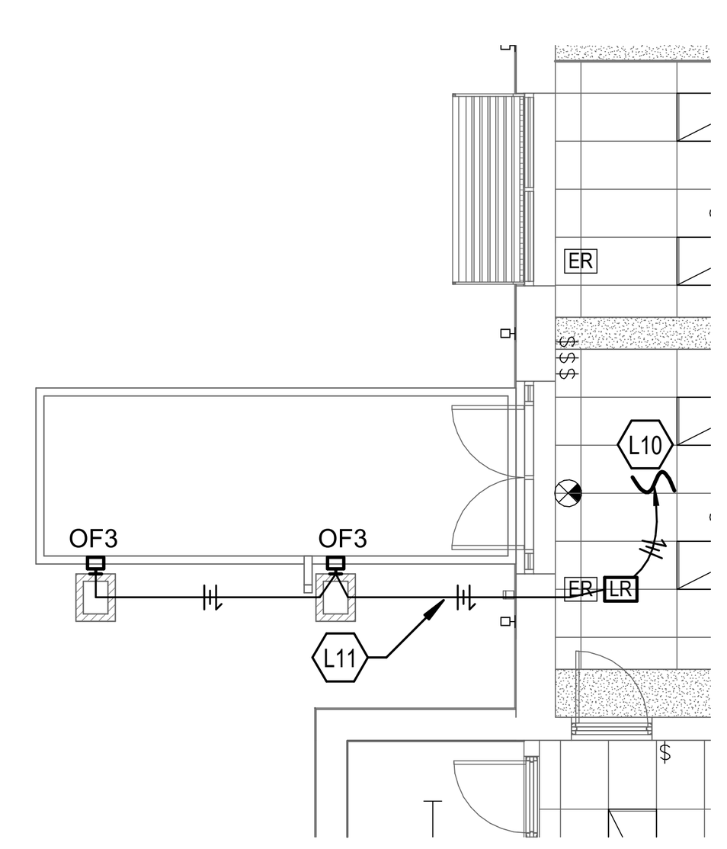
ALTERNATE #3 - LEVEL 1 LIGHTING PLAN 2 E6.2
1/8" = 1'-0"



ALTERNATE #3 - LEVEL 1 DEMOLITION PLAN 1 E6.2
1/8" = 1'-0"



ALTERNATE #5 - LEVEL 1 LIGHTING PLAN 6 E6.2
1/8" = 1'-0"



ALTERNATE #4 - LEVEL 1 LIGHTING PLAN 5 E6.2
1/8" = 1'-0"

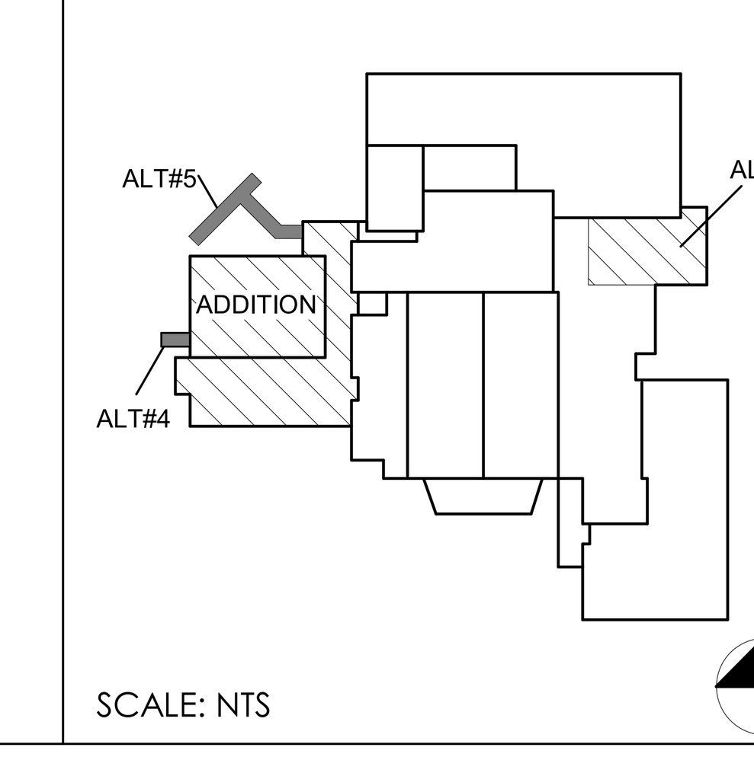
ELECTRICAL ALTERNATES...

- THE GENERAL DEMOLITION, LIGHTING, POWER, AND SYSTEMS NOTES ON SHEETS E2.0, E3.0, E4.0, AND E5.0 SHALL ALSO APPLY TO THE WORK SHOWN ON THIS SHEET. CONTRACTOR SHALL REFERENCE THESE NOTES WHEN BIDDING THIS WORK.

TAGGED NOTES

E27	EXTEND CONDUIT AND CONDUCTORS FROM DEMOLISHED FLOORBOX TO NEW CIRCULATION DESK LOCATION. STUB CONDUIT INTO WIRE CHASE OF DESK AND ROUTE CONDUIT AND WIRING CONCEALED TO RECEPTACLE LOCATIONS. REFER TO SHEET A8.2 FOR DIMENSIONED DRAWING INDICATING LOCATION OF CIRCULATION DESK. CUT, PATCH, AND REPAIR FLOOR SLAB AND PREPARE FOR NEW FLOOR FINISH. COORDINATE REQUIREMENTS OF FLOOR CUT AND PATCH WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
E29	RECESS MOUNT RECEPTACLES IN CIRCULATION DESK. COORDINATE FURNITURE CUTTING FOR RECESSED BACKBOXES WITH DESK MANUFACTURER.
ED14	RELOCATE EXISTING DOWNLIGHTS TO NEW CIRCUILATION DESK LOCATION.
ED15	DEMOLISH FLOORBOX. CONDUIT AND CONDUCTORS FOR POWER ARE TO BE EXTENDED BELOW SLAB TO NEW CIRCULATION DESK LOCATION.
L1	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.
L10	CONNECT TO CAFETERIA LIGHTING CIRCUIT.
L11	ROUTE ALL CONDUIT AND CONDUCTORS FOR CANOPY LIGHTING UNDERGROUND AND CONCEALED INTO BASE OF COLUMN. PROVIDE RECESSED BACKBOX FOR FIXTURES. (TYPICAL)
L12	CIRCUIT 'OF3' FIXTURE THROUGH EMERGENCY BYPASS RELAY PROVIDED IN BASE BID SERVING EXTERIOR WALL MOUNT FIXTURES AT VESTIBULE 170 EXTERIOR DOORS.
S4	EXTEND CONDUIT FROM DEMOLISHED FLOORBOX TO NEW CIRCULATION DESK LOCATION. STUB CONDUIT INTO WIRE CHASE OF DESK AND ROUTE CONDUIT AND CABLING CONCEALED TO DATA OUTLET LOCATIONS. REFER TO SHEET A8.2 FOR DIMENSIONED DRAWING INDICATING LOCATION OF CIRCULATION DESK. CUT, PATCH, AND REPAIR FLOOR SLAB AND PREPARE FOR NEW FLOOR FINISH. COORDINATE REQUIREMENTS OF FLOOR CUT AND PATCH WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
S5	RECESS MOUNT DATA OUTLETS IN CIRCULATION DESK. COORDINATE FURNITURE CUTTING FOR RECESSED BACKBOXES WITH DESK MANUFACTURER.

KEY PLAN



SCALE: NTS

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ALTERNATES #3, #4 & #5
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BG# 19-262

Project No: 1904
Drawn By: CH
Rev'd By: CJC

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ALTERNATES #3, #4 & #5

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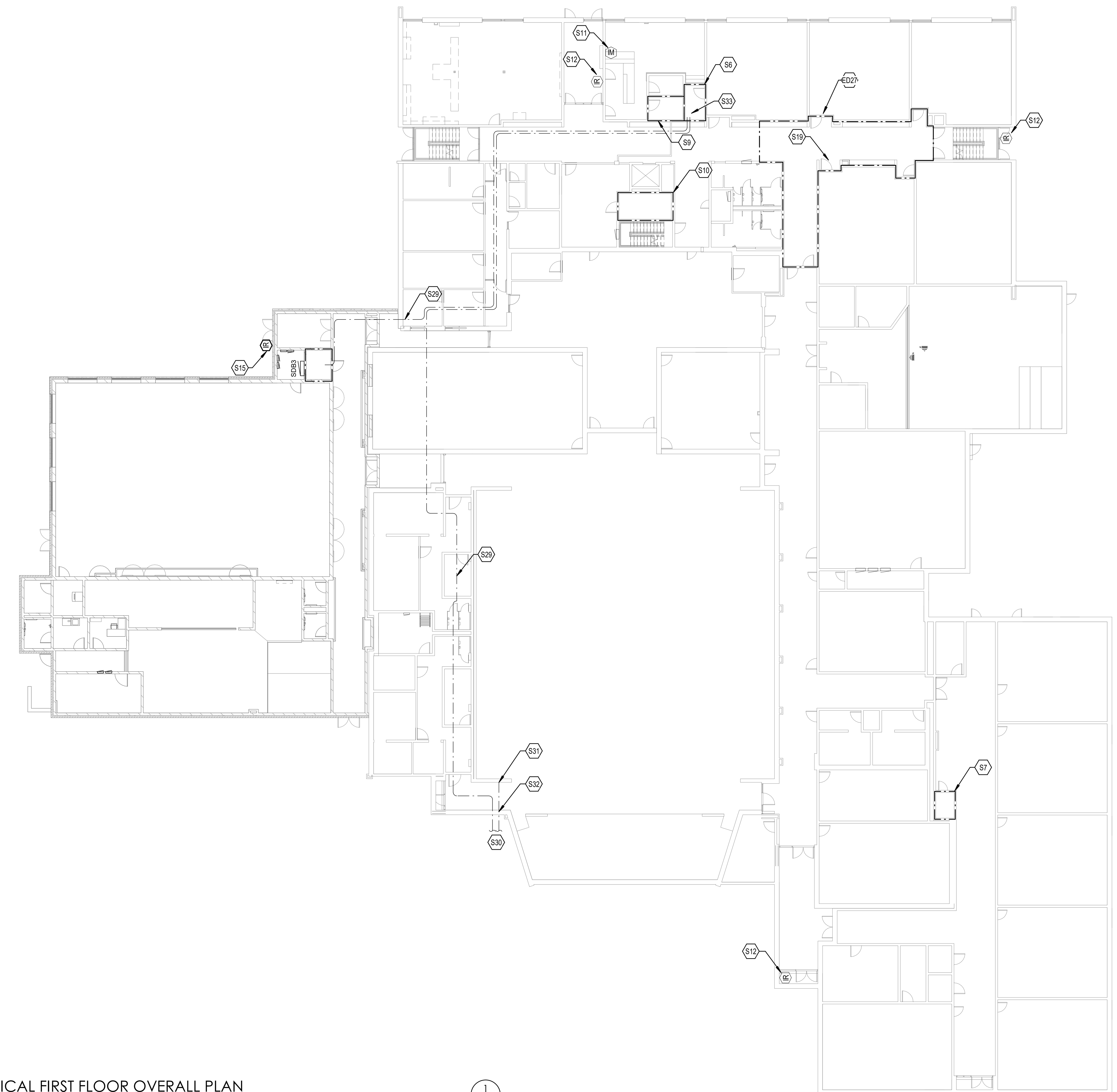
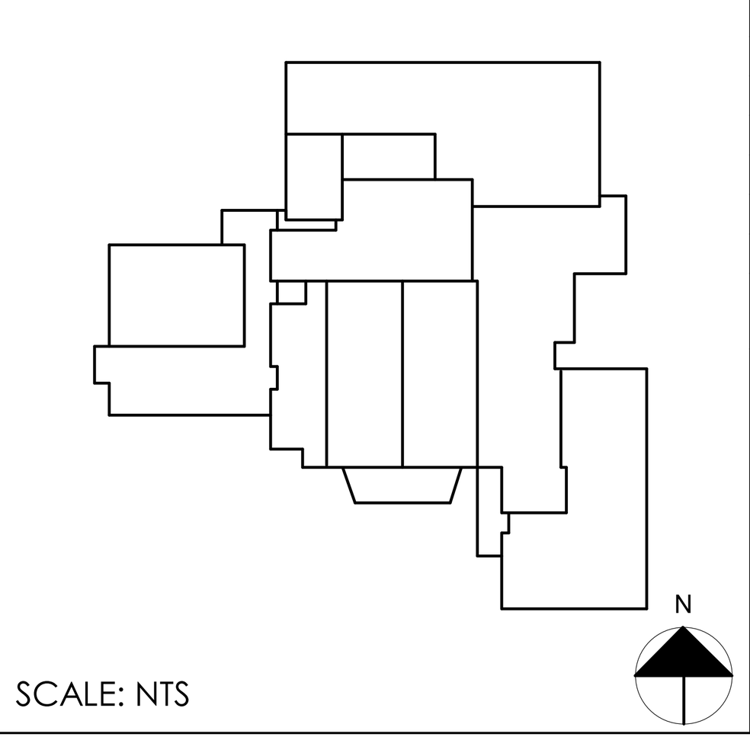


ELECTRICAL FIRST FLOOR OVERALL PLAN
1/16" = 1'-0"
1
E6.3

TAGGED NOTES

ED27	PROVIDE TEMPORARY SUPPORT FOR ALL CEILING DEVICES IN THIS AREA FOR NEW CEILING INSTALLATION. REINSTALL ALL DEVICES IN NEW CEILING. REFER TO SHEET A7.1 AND A7.2 FOR EXTEND OF CEILING WORK AND COORDINATE.
S6	EXISTING MDF ROOM WITH ONE (1) TWO-POST RACK.
S7	EXISTING IDF ROOM.
S9	DEMOLISH EXISTING DUKANE PAGING/INTERCOM HEADEND RACK. PROVIDE NEW PAGING/INTERCOM HEADAND AND REQUIRED RACK. COORDINATE SIZE AND DOOR SWING OF RACK WITH FIELD CONDITIONS. RECONNECT EXISTING-T0-REMAIN PAGING ZONES TO NEW HEADEND RACK. REFER TO PAGING/INTERCOM SPECIFICATIONS FOR ADDITIONAL INFORMATION.
S10	EXISTING CCTV HEADEND LOCATION.
S11	EXISTING AIPHONE MASTER STATION IS TO REMAIN.
S12	EXISTING AIPHONE DOOR STATION IS TO REMAIN.
S15	PROVIDE NEW VIDEO INTERCOM DOOR STATION COMPATIBLE WITH EXISTING AIPHONE HEADEND AND FLUSH MOUNT IN NEW WALL. PROVIDE ALL REQUIRED CABLING FROM DOOR STATION FOR A FULLY FUNCTIONING SYSTEM. PROVIDE CABLING BETWEEN DOOR STATION AND EXISTING ADJACENT IEI PROXPAD PLUS CARD READER TO ALLOW DOOR RELEASE OF ADJACENT EXTERIOR DOOR. ROUTE CABLING TO CARD READER CONCEALED. COORDINATE EXACT REQUIREMENTS WITH OWNER'S AIPHONE SERVICE COMPANY: TERRY'S LOCKSMITH (859) 346-3076.
S19	PROVIDE CABLING SUPPORT TO PROTECT AND HOLD EXISTING LOW VOLTAGE CABLING OUT OF NEW CONDUIT PATH.
S29	SUGGESTED FIBER OPTIC CABLING PATH. FIELD VERIFY EXACT ROUTE AND KEEP ABOVE ACCESSIBLE CEILING.
S30	REFER TO SHEET UE1.0 SITE ELECTRICAL PLAN FOR CONTINUATION.
S31	PROVIDE NEW PUNCHDOWN BLOCKS ABOVE CEILING AND RETERMINATE EXISTING PHONE CABLING FROM MDF ROOM.
S32	PROVIDE NEW 25 PAIR PHONE CABLING, TERMINATE TO PUNCHDOWN BLOCKS AND EXTEND TO AG. BUILDING ON SITE.
S33	PROVIDE APPROPRIATE FIBER CONNECTORS AND TERMINATE IN FIBER CONNECTOR ENCLOSURE IN MDF ROOM.

KEY PLAN



SCALE: NTS

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OVERALL
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Rev'd By: CJC

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OVERALL

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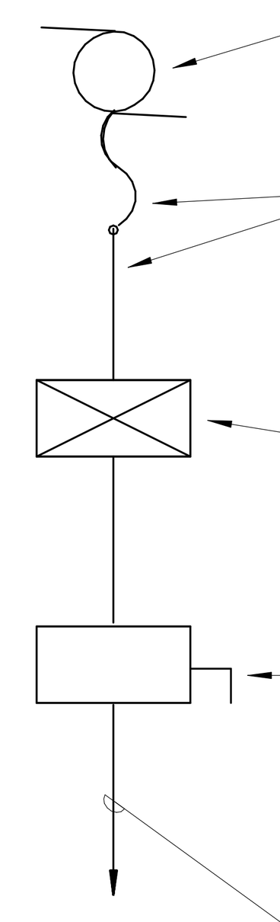
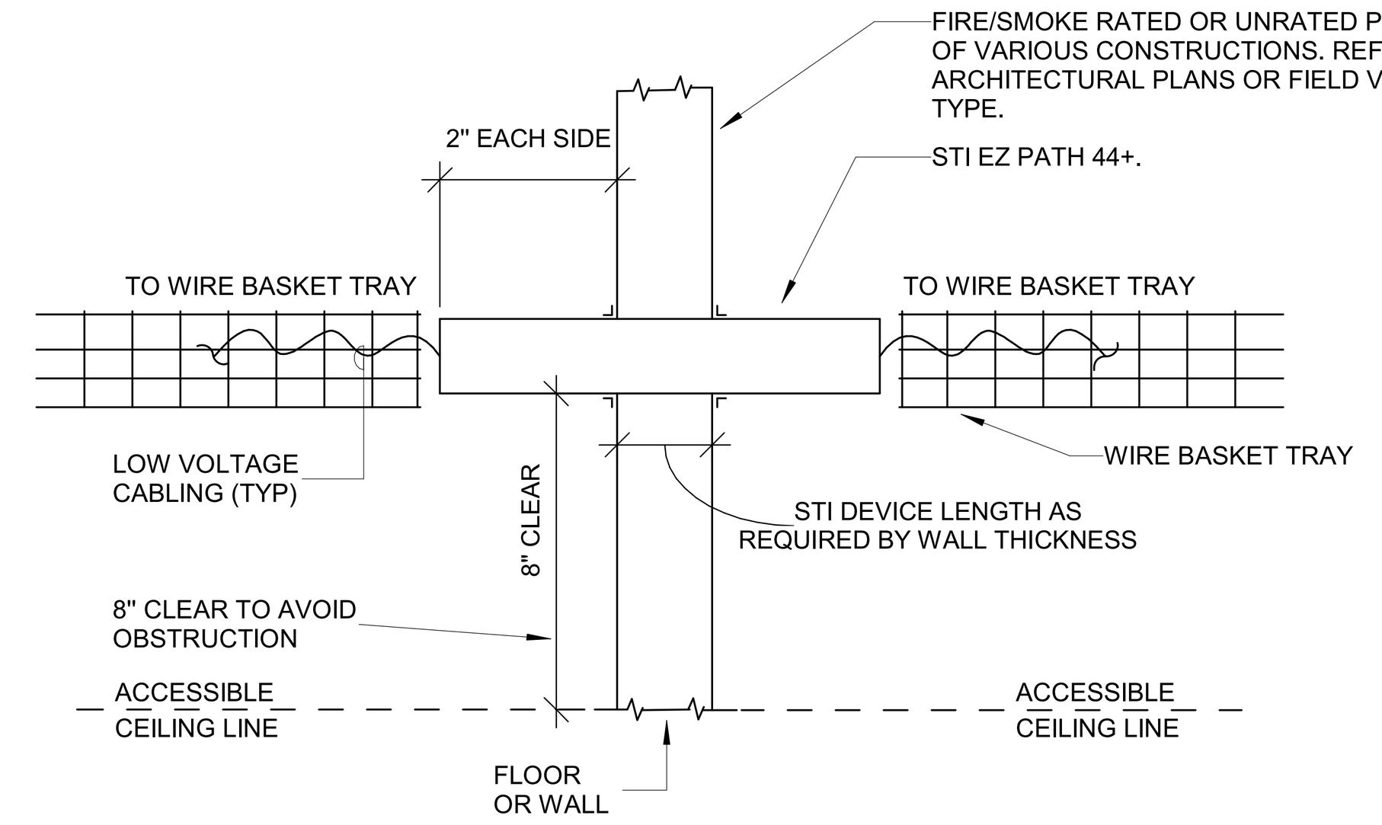
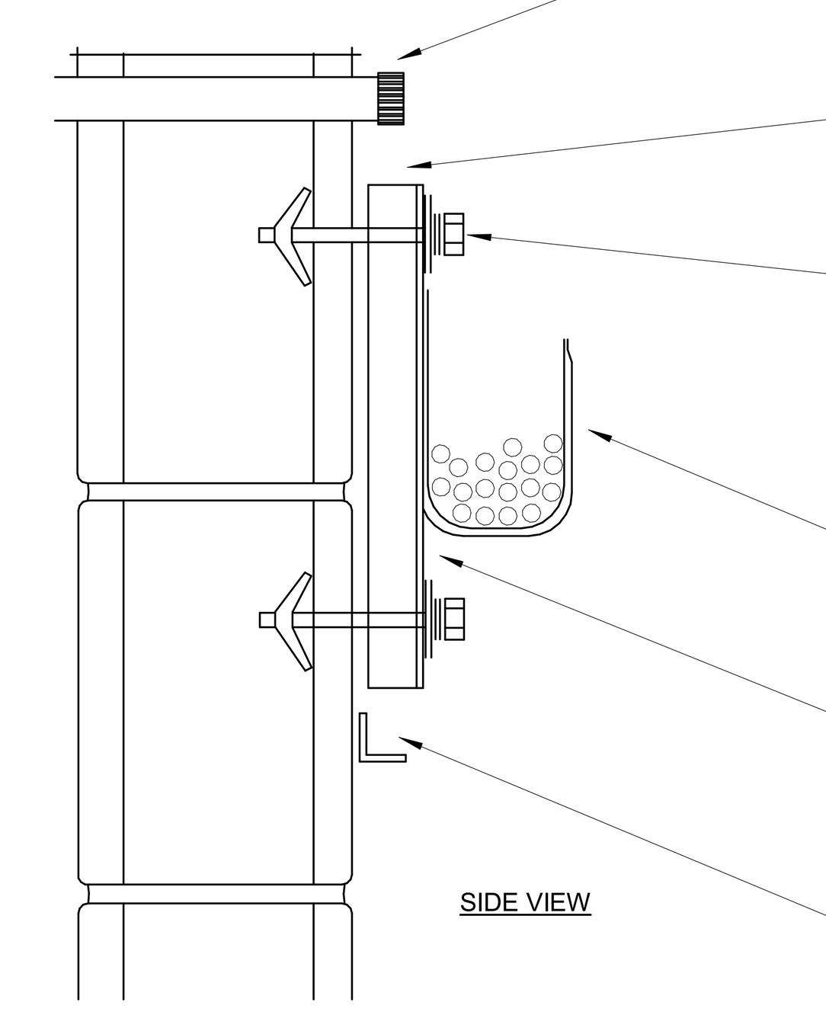


DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION
SCALE: NO SCALE — 3/E7.0

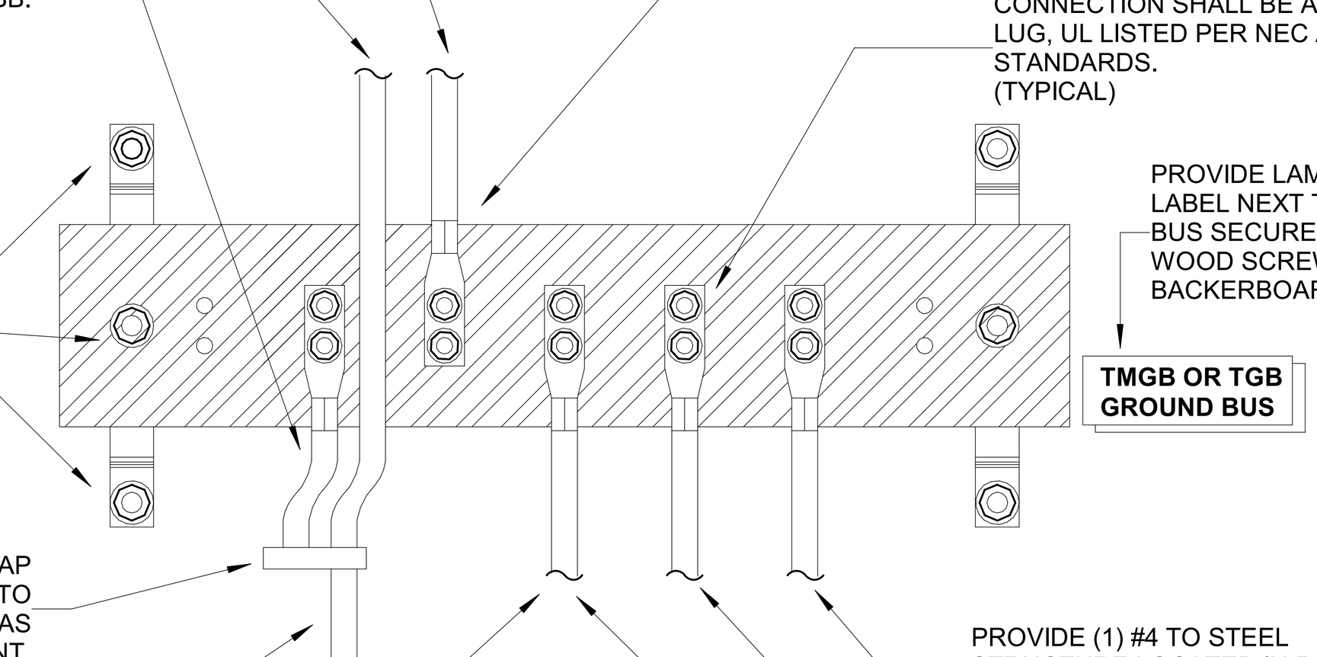


NOTE:
A. PATHWAYS SHALL BE PROVIDED WHERE PENETRATING CEILINGS (RATED OR NOT) FOR EXPOSED CABLE ROUTING TO BASKET TRAY IN MDF/IDF ROOMS. PROVIDE GRID SYSTEMS MOUNT AS REQUIRED.
B. PROVIDE AT ALL FLOOR AND WALL PENETRATIONS ALONG BASKET TRAY PATH.
C. PROVIDE WITH MULTI-GANG INSTALLATION BRACKET AND SECURE TO WALL STUDS OR CMU. INSTALL PER MANUFACTURERS EQUIREMENTS AND RECOMMENDATIONS FOR FIRE RATING AS REQUIRED.
D. QUANTITY SHALL BE AS REQUIRED TO HANDLE FULL CAPACITY OF WIRE BASKET TRAY (OR CONDUITS) AT PENETRATION.

SYSTEMS CABLING SLEEVE INSTALLATION DETAIL
NOT TO SCALE — 2/E7.0

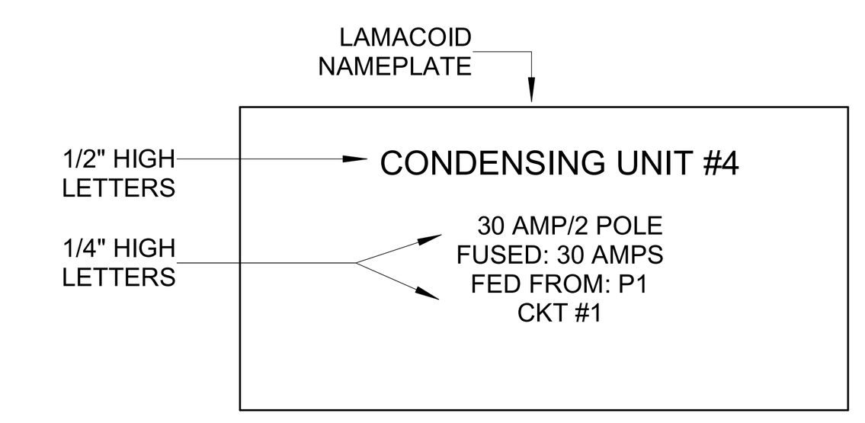


J-HOOK INSTALLATION DETAIL
SCALE: NO SCALE — 1/E7.0



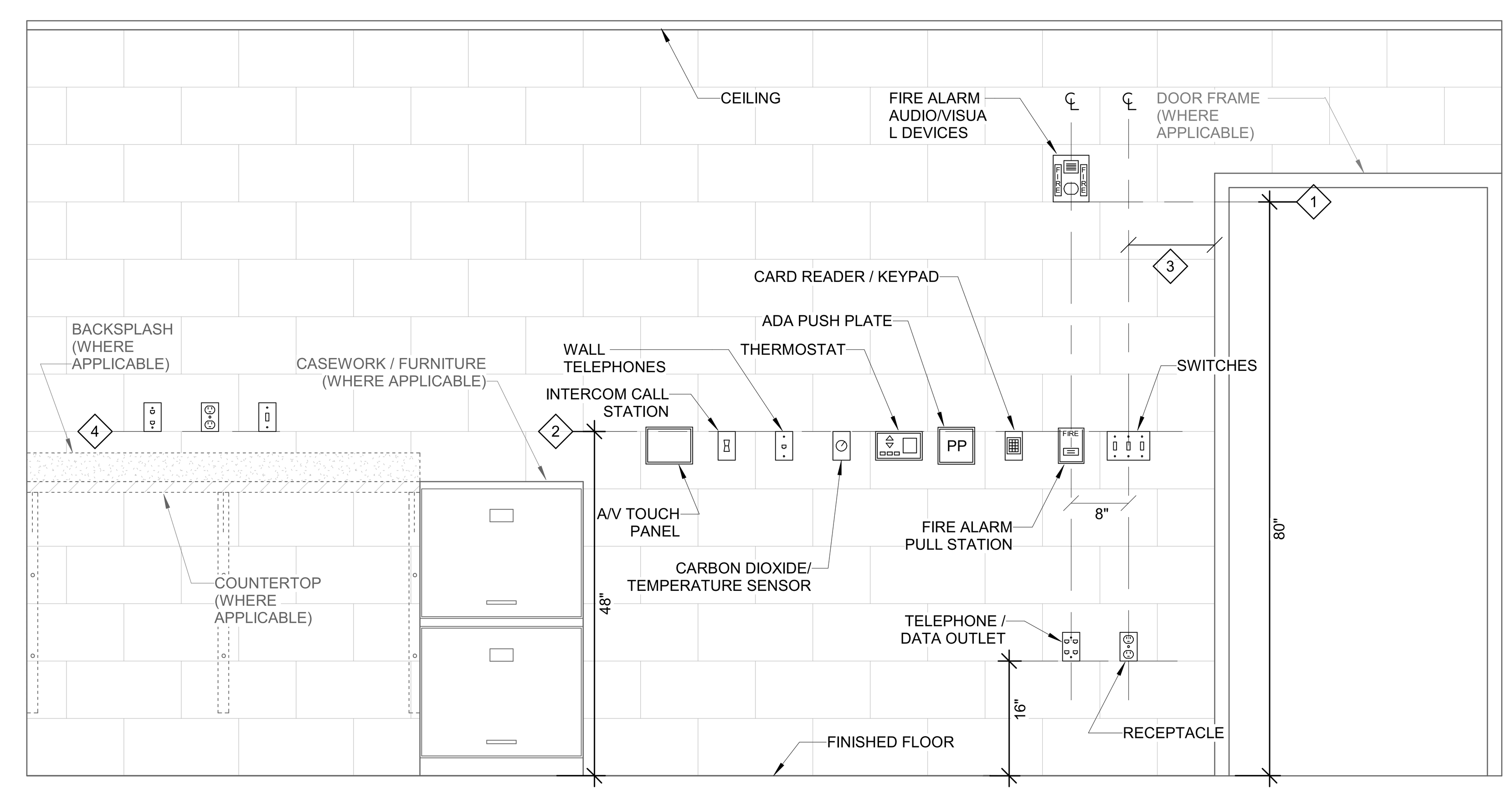
NOTE: PROVIDE AT ALL TELECOM ROOMS

TELECOM GROUNDING BUS BAR DETAIL (TGMB & TGB)
SCALE: NO SCALE — 6/E7.0



NORMAL POWER LABELS SHALL BE BLACK WITH WHITE LETTERS.
EMERGENCY POWER LABELS SHALL BE RED WITH WHITE LETTERS.
UTILIZE SKREW-ON LAMACOID PLATES.

DISCONNECT & STARTER NAMEPLATE DETAIL
SCALE: NO SCALE — 4/E7.0



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES: (X)

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

TYPICAL WALL DEVICE MOUNTING DETAIL
NOT TO SCALE — 5/E7.0

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ELECTRICAL DETAILS

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ELECTRICAL DETAILS

DATE ISSUED: 9/13/19

REVISIONS

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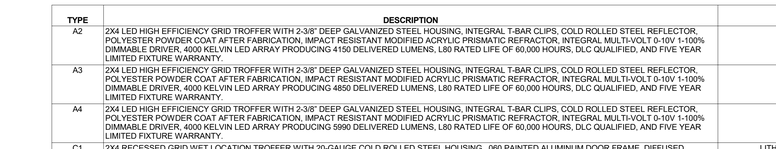
ELEC - LUMINAIRE SCHEDULE

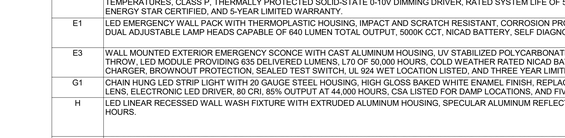
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	DRIVER	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A2	2X4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 4150 DELIVERED LUMENS, L80 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT4-40LHE-ADP-LP840	METALUX 24RTC SERIES COLUMBIA EQUAL	CEILING GRID	LED / 4000K	0-10V DIM TO 1%	4,150	29	120	-
A3	2X4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 4850 DELIVERED LUMENS, L80 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT4-48LHE-ADP-LP840	METALUX 24RTC SERIES COLUMBIA EQUAL	CEILING GRID	LED / 4000K	0-10V DIM TO 1%	4,850	34	120	-
A4	2X4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 5990 DELIVERED LUMENS, L80 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT4-60LHE-ADP-LP840	METALUX 24RTC SERIES COLUMBIA EQUAL	CEILING GRID	LED / 4000K	0-10V DIM TO 1%	5,990	43	120	-
C1	2X4 RECESSED GRID WET LOCATION TROFFER WITH 20-GAUGE COLD ROLLED STEEL HOUSING, .060 PAINTED ALUMINUM DOOR FRAME, DIFFUSED ACRYLIC LENS SEALED TO DOOR FRAME, CLOSED CELL NEOPRENE GASKETING, POLYESTER POWDER PAINT AFTER FABRICATION, 4,800 DELIVERED LUMENS, LUMEN MAINTENANCE OF L80/60,000 HOURS, 6KV/3KA SURGE PROTECTION TESTED IN ACCORDANCE TO IEEE/ANSI STANDARDS, CSA LISTED FOR WET LOCATION, 5-YEAR LIMITED WARRANTY.	LITHONIA 2WRTL-L48-5000LM-AFL-40K-80CRI	FAILSAFE GRW SERIES KENALL EQUAL PHILIPS EQUAL	CEILING GRID	LED / 4000K	0-10V DIM TO 10%	4,800	39	120	-
D1	RECESSED 6" LED DOWNLIGHT WITH 1000 LUMEN OUTPUT SELF-FLANGED ALZAK LOWER REFLECTOR, HIGHLY TRANSMISSIVE LENS, 55 DEGREE CUTOFF, GALVENIZED STEEL MOUNTING FRAME, ADJUSTABLE 16-GAUGE GALVANIZED STEEL MOUNTING BARS WITH CONTINUOUS 4" VERTICAL ADJUSTMENT FROM BELOW CEILING, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS, SOLID STATE LED LIGHT ENGINE AVAILABLE IN 4000K COLOR TEMPERATURES, CLASS P, THERMALLY PROTECTED SOLID-STATE 0-10V DIMMING DRIVER, RATED SYSTEM LIFE OF 50,000 HOURS AT 70% OUTPUT, ENERGY STAR CERTIFIED, AND 5-YEAR LIMITED WARRANTY.	LITHONIA LDN6-40/10-LO6AR-LSS	HALO PD6B SERIES PATHWAY EQUAL	CEILING GRID	LED / 4000K	0-10V DIM TO 10%	1,050	13	120	-
D2	RECESSED 3" LED DOWNLIGHT WITH 500 LUMEN OUTPUT SELF-FLANGED ALZAK LOWER REFLECTOR, HIGHLY TRANSMISSIVE LENS, 55 DEGREE CUTOFF, GALVENIZED STEEL MOUNTING FRAME, ADJUSTABLE 16-GAUGE GALVANIZED STEEL MOUNTING BARS WITH CONTINUOUS 4" VERTICAL ADJUSTMENT FROM BELOW CEILING, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS, SOLID STATE LED LIGHT ENGINE AVAILABLE IN 4000K COLOR TEMPERATURES, CLASS P, THERMALLY PROTECTED SOLID-STATE 0-10V DIMMING DRIVER, RATED SYSTEM LIFE OF 50,000 HOURS AT 70% OUTPUT, ENERGY STAR CERTIFIED, AND 5-YEAR LIMITED WARRANTY.	LITHONIA LDN3-40/05-AR-LSS	PORTFOLIO LD2B SERIES PATHWAY EQUAL	HARD CEILING	LED / 4000K	0-10V DIM TO 10%	550	6	120	-
E1	LED EMERGENCY WALL PACK WITH THERMOPLASTIC HOUSING, IMPACT AND SCRATCH RESISTANT, CORROSION PROOF, INTEGRATED TEST SWITCH, DUAL ADJUSTABLE LAMP HEADS CAPABLE OF 640 LUMEN TOTAL OUTPUT, 5000K CCT, NICAD BATTERY, SELF DIAGNOSTIC.	LITHONIA ELM4	EMERGENSEE SEEOE SERIES DUALLITE EQUAL	WALL	LED	LED	350	3	120	CIRCUIT TO UNSWITCHED SIDE OF NEAREST LIGHTING CIRCUIT.
E3	WALL MOUNTED EXTERIOR EMERGENCY SCONCE WITH CAST ALUMINUM HOUSING, UV STABILIZED POLYCARBONATE REFRACTOR, FIELD CONFIGURABLE THROW, LED MODULE PROVIDING 635 DELIVERED LUMENS, L70 OF 50,000 HOURS, COLD WEATHER RATED NICAD BATTERY, CONSTANT CURRENT CHARGER, BROWNOUT PROTECTION, SEALED TEST SWITCH, UL 924 WET LOCATION LISTED, AND THREE YEAR LIMITED WARRANTY.	LITHONIA AFF-OEL-UVOLT-LTP-SDRT-FCT-CW	EVENLITE EQUAL DUALLITE EQUAL	WALL	LED	LED	450	12	120	CIRCUIT TO UNSWITCHED SIDE OF NEAREST LIGHTING CIRCUIT.
G1	CHAIN HUNG LED STRIP LIGHT WITH 20 GAUGE STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH, REPLACEABLE MEDIUM DIFFUSE ACRYLIC LENS, ELECTRONIC LED DRIVER, 80 CRI, 85% OUTPUT AT 44,000 HOURS, CSA LISTED FOR DAMP LOCATIONS, AND FIVE YEAR LIMITED WARRANTY.	LITHONIA ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH-HC36	METALUX SNLED SERIES COLUMBIA EQUAL	CHAIN HUNG	LED / 4000K	NO DIMMING REQUIRED	6,785	52	120	-
H	LED LINEAR RECESSED WALL WASH FIXTURE WITH EXTRUDED ALUMINUM HOUSING, SPECULAR ALUMINUM REFLECTOR, ACRYLIC LENS, L70 AT 50,000 HOURS.	AXIS WWR-SL-1000-80-40-W-2	LUMENWERX VIA2R SERIES LIGHTOLIER EQUAL PHILIPS EQUAL	CEILING GRID	LED / 4000K	0-10V DIM TO 10%	2,000	25	120	-
J	LED LINEAR WALL MOUNT FIXTURE WITH EXTRUDED ALUMINUM HOUSING, SATIN PMMA LENS, L70 AT 50,000 HOURS.	AXIS PRWLED-1000-80-40-S-2-UNV-DP	BARTCO EQUAL LIGHTOLIER EQUAL	WALL	LED / 4000K	0-10V DIM TO 10%	2,000	18	120	-
OF1A	LED WALL MOUNT FIXTURE WITH TWO-PIECE DIE CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK, THERMOSET POWDER-COAT FINISH, PRECISION MOLDED ACRYLIC LENSES, T5M OPTICAL DISTRIBUTION, INTEGRAL 2.5KV SURGE PROTECTION, CORRSION RESISTANT SCREWS, L88 AT 100,000 HOURS.	LITHONIA DSX1-P9-40K-T5M-MVOLT	MCGRAW EDISON GLEON SERIES KIM EQUAL	30'-0" AFG (27'-6" POLE)	LED / 4000K	NO DIMMING REQUIRED	28,635	241	208	-
OF1B	LED WALL MOUNT FIXTURE WITH TWO-PIECE DIE CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK, THERMOSET POWDER-COAT FINISH, PRECISION MOLDED ACRYLIC LENSES, T1S OPTICAL DISTRIBUTION, INTEGRAL 2.5KV SURGE PROTECTION, CORRSION RESISTANT SCREWS, L88 AT 100,000 HOURS.	LITHONIA DSX1-P9-40K-T1S-MVOLT	MCGRAW EDISON GLEON SERIES KIM EQUAL	30'-0" AFG (27'-6" POLE)	LED / 4000K	NO DIMMING REQUIRED	27,550	241	208	-
OF2A	WALL MOUNT ARCHITECTURAL FIXTURE WITH ALUMINUM HOUSING, STAINLESS STEEL TAMPER RESISTANT HARDWARE, ACRYLIC LENS, HEAVY GAUGE MOUNTING PLATE, WET LOCATION LISTED, L70 AT 55,000 HOURS, WITH DUAL 23 WATT LED ENGINES, 94 DEGREE DIRECT, 19 DEGREE INDIRECT OPTIC, PAINTED DECORATIVE ACCENT PLATES.	REBELLE TESSERA 3413-23L-40-120-SP/UP-VFWL/DN	V2 QUBE 400 SX SERIES COLUMBIA EQUAL PHILIPS EQUAL	7'-0" AFG MEASURED TO BOTTOM OF FIXTURE.	LED / 4000K	0-10V DIM TO 1%	2,730-UP / 2,900 DN	52	120	-
OF2B	WALL MOUNT ARCHITECTURAL FIXTURE WITH ALUMINUM HOUSING, STAINLESS STEEL TAMPER RESISTANT HARDWARE, ACRYLIC LENS, HEAVY GAUGE MOUNTING PLATE, WET LOCATION LISTED, L70 AT 55,000 HOURS, WITH DUAL 23 WATT LED ENGINES, 94 DEGREE DIRECT/INDIRECT OPTIC, PAINTED DECORATIVE ACCENT PLATES.	REBELLE TESSERA 3413-23L-40-120-VFWL/UP-VFWL/DN	V2 QUBE 400 SX SERIES COLUMBIA EQUAL PHILIPS EQUAL	7'-0" AFG MEASURED TO BOTTOM OF FIXTURE.	LED / 4000K	0-10V DIM TO 1%	2,900-UP / 2,900 DN	52	120	-
OF3	WALL MOUNT ARCHITECTURAL FIXTURE WITH ALUMINUM HOUSING, STAINLESS STEEL TAMPER RESISTANT HARDWARE, ACRYLIC LENS, HEAVY GAUGE MOUNTING PLATE, WET LOCATION LISTED, L70 AT 55,000 HOURS, WITH DUAL 12 WATT LED ENGINES, 94 DEGREE DIRECT ONLY OPTIC, PAINTED DECORATIVE CENTER PLATE.	REBELLE TESSERA 3204-12L-40-120-VFWL	V2 QUBE 400 LX SERIES COLUMBIA EQUAL PHILIPS EQUAL	7'-0" AFG MEASURED TO BOTTOM OF FIXTURE.	LED / 4000K	0-10V DIM TO 1%	1,450	14	120	-
OF4	WALL MOUNT WALL WASH LED FIXTURE WITH ADJUSTABLE 18 INCH EXTENSION ARM, 100X100 DEGREE LIGHT DISTRIBUTION, 15.25W/ft LED LIGHT ENGINE, 48" LENGTH.	MEDLEY MVWII-15-40K-100-EXA-18-48-120-DIM-##	LUMENPULSE LOGP-HO SERIES HUBBELL EQUAL	REFER TO ELEVATION.	LED / 4000K	0-10V DIM TO 1%	3,592	61	120	REFER TO FACADE LIGHTING ELEVATION ON SHEET E3.0 FOR MOUNTING INFORMATION.
S	6 INCH WET LOCATION RECESSED DOWNLIGHT WITH NON-CONDUCTIVE "DEAD FRONT" FACE, REGRESSED APERTURE LENS, WHITE PAINTED FLANGE.	GOTHAM EVO-40/10-6-DFR-MVOLT	PORTFOLIO EQUAL LIGHTOLIER EQUAL PHILIPS EQUAL	HARD CEILING	LED / 4000K	0-10V DIM TO 10%	1,075	12	120	-
X1A	SINGLE SIDED, EDGE LIGHT, RECESSED EXIT SIGN. APPLY ARROWS AS INDICATED ON DRAWINGS.	ISOLITE ELT-FT-EM-R-1C-RC-UC-SD	EVENLITE EQUAL DUALLITE SE SERIES	CEILING GRID	LED / RED	LED	-	2	120	CIRCUIT TO UNSWITCHED SIDE OF NEAREST LIGHTING CIRCUIT.

GENERAL NOTES (LUMINAIRE SCHEDULE):

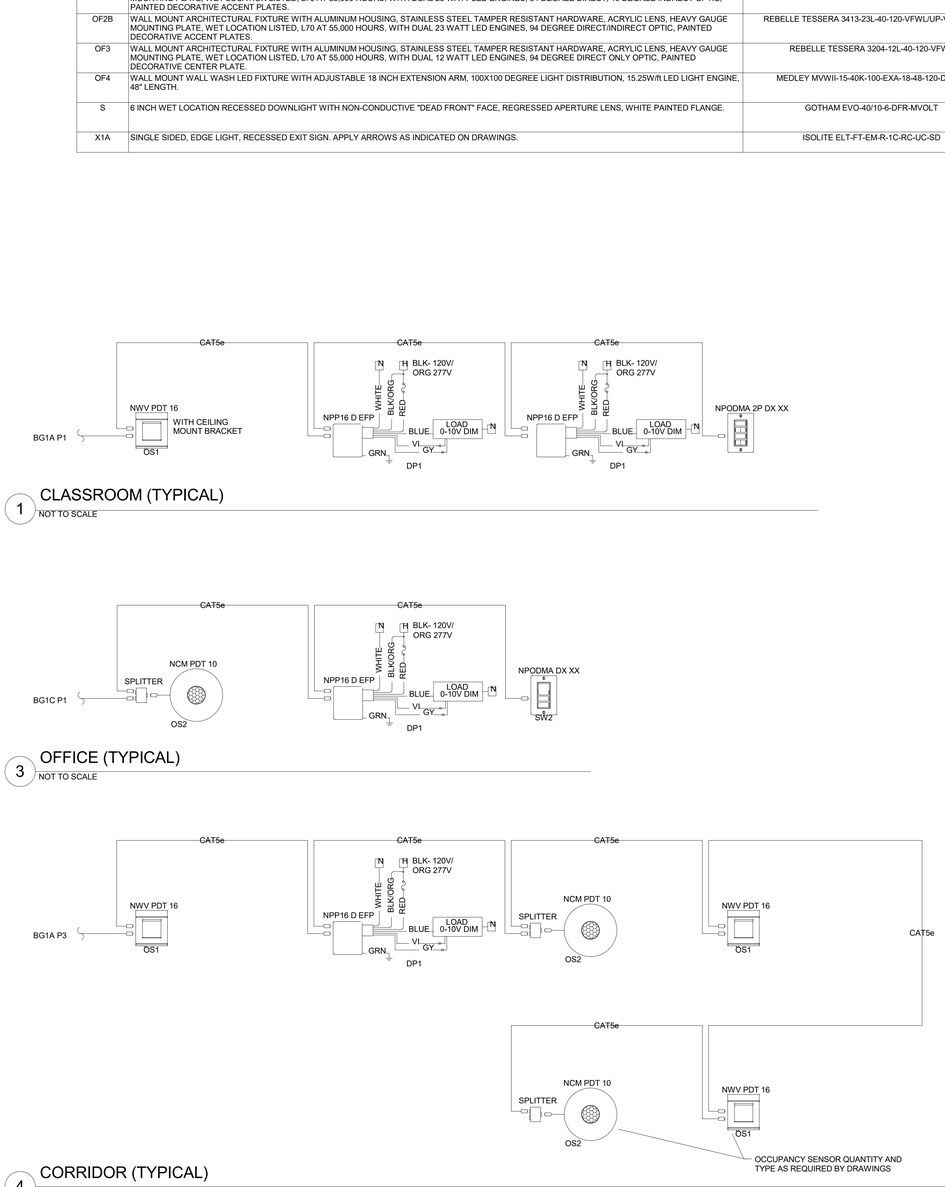
A. ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.
B. CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.
C. ALL LAY-IN FIXTURES SHALL BE PROVIDED WITH SCREW ON HOLD DOWN CLIPS AND MAXIMUM 6'-0" LONG FLEXIBLE CONDUIT WHIPS.
D. EXIT SIGNS AND FIXTURES THAT ARE HATCHED OR WHERE THE FIXTURE TYPE CONTAINS THE SUFFIX "E" FOR EMERGENCY OPERATION SHALL HAVE AN INTEGRAL 90 MINUTE BATTERY INVERTER IF NOT POWERED FROM AN EMERGENCY GENERATOR.
E. ALL BATTERY POWERED FIXTURES SHALL HAVE TEST SWITCHES FACTORY INSTALLED INTEGRAL TO THE REFLECTOR, REMOTE TEST SWITCHES WILL NOT BE ACCEPTED.



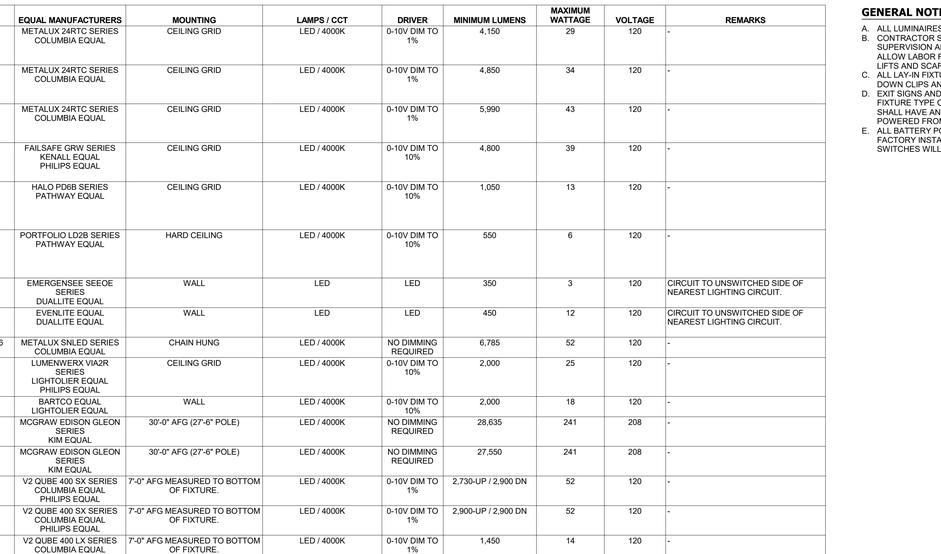
1 CLASSROOM (TYPICAL)
NOT TO SCALE



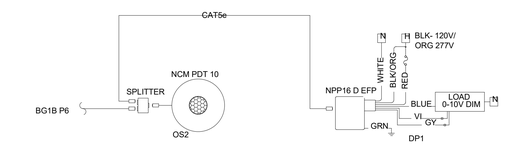
3 OFFICE (TYPICAL)
NOT TO SCALE



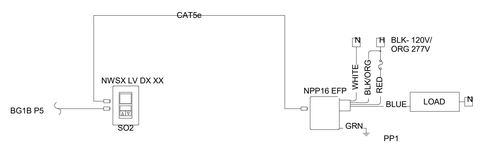
4 CORRIDOR (TYPICAL)
NOT TO SCALE



2 CAFETERIA
NOT TO SCALE



5 VESTIBULE (TYPICAL)
NOT TO SCALE



6 RESTROOM (TYPICAL)
NOT TO SCALE

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ELECTRICAL SCHEDULES - LIGHT FIXTURES

BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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2429 Members Way
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220 Great Circle Rd. Suite 106
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BG# 19-262

Project No:	1904
Drawn By:	CH
Rev'd By:	CJC

SHEET RELEASE

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CONSTRUCTION DOCUMENTS

E8.0

ELECTRICAL SCHEDULES - LIGHT FIXTURES
DATE ISSUED:
9/13/19

REVISIONS		
#	DATE	DESCRIPTION

PANELBOARD AND WIRING SCHEDULE

PANEL: P1 **MAINS TYPE:** MLO **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** ELECT. 172A
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:** SDB3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	DATA RACK - 171	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC - 177, 178	
	REC - 172	1-#8, 1-#8, 1-#8	20	1	3			0.9	0.2			4	1	20	1-#12, 1-#12, 1-#12	DATA RACK - 171	
	REC - 170, 172A, OUTDOOR 172A	1-#12, 1-#12, 1-#12	20	1	5					0.7	1.0	6	1	20	1-#12, 1-#12, 1-#12	PROJECTOR - 172	
	REC - 172	1-#10, 1-#10, 1-#10	20	1	7	0.7	0.2					8	1	20	1-#12, 1-#12, 1-#12	REC - 172A	
	REC - 171	2-#12, 1-#12, 1-#12	20	2	9			0.2	0.2			10	1	20	1-#12, 1-#12, 1-#12	EWC - CA	
					11					0.2	0.7	12	1	20	1-#12, 1-#12, 1-#12	REC - 172	
	CU-1 - ROOF	2-#12, 1-#12, 1-#12	20	2	13	1.3	0.7					14	1	20	1-#12, 1-#12, 1-#12	REC - 172	
					15			1.3	0.4			16	1	20	1-#12, 1-#12, 1-#12	REC - 171	
	CU-1 ROOF	2-#12, 1-#12, 1-#12	15	2	17					1.3	0.9	18	1	20	1-#12, 1-#12, 1-#12	REC - CA, CB	
					19	1.3	0.2					20	2	15	2-#12, 1-#12, 1-#12	CAS-1 - 170	
	REC - CA	1-#8, 1-#8, 1-#8	20	1	21			1.3	0.2			22					
	REC - 171	1-#12, 1-#12, 1-#12	20	1	23					0.4	0.2	24	2	20	2-#12, 1-#12, 1-#12	REC - 171	
	DOOR HARDWARE - VESTIBULE	1-#12, 1-#12, 1-#12	20	1	25	0.2	0.2					26					
	SPARE	--	20	1	27			0.0	0.4			28	1	20	1-#12, 1-#12, 1-#12	REC - 171	
	SPARE	--	20	1	29					0.0	0.4	30	1	20	1-#12, 1-#12, 1-#12	LTNG BUILDING LETTERING	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
						5.3 kVA		4.8 kVA		5.7 kVA							
						45 A		40 A		48 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1500 VA	100.00%	1500 VA	TOTAL CONNECTED LOAD:	15806 VA
HVAC	5300 VA	80.00%	4240 VA	TOTAL ESTIMATED DEMAND:	14746 VA
LTNG	366 VA	100.00%	366 VA	TOTAL CONNECTED CURRENT:	44 A
REC	8640 VA	100.00%	8640 VA	TOTAL ESTIMATED DEMAND CURRENT:	41 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: P2 **MAINS TYPE:** MLO **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** ELECT. 172A
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:** SDB3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG SITE POLES	2-#8, 1-#8, 1-#8	20	2	1	0.6	0.6					2	1	20	1-#8, 1-#8, 1-#8	REC SITE POLE	
					3			0.6	0.6			4	1	20	1-#10, 1-#10, 1-#10	LTNG - OUTDOOR OF2	
	LTNG - 172	1-#10, 1-#10, 1-#10	20	1	5					0.8	0.9	6	1	20	1-#10, 1-#10, 1-#10	LTNG - 170, CA, CB, CC	
	LTNG - 175B, 175C, 175D	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.2					8	1	20	1-#12, 1-#12, 1-#12	LTNG - OUTDOOR OF1	
	LTNG - 175A, 175G	1-#8, 1-#8, 1-#8	20	1	9			1.1	0.1			10	1	20	1-#12, 1-#12, 1-#12	LTNG - 177, 178, CA	
	LTNG RELAY - 170	1-#12, 1-#12, 1-#12	20	1	11					0.1	0.9	12	1	20	1-#10, 1-#10, 1-#10	LTNG - 172	
	EF-1, MEN'S 177	1-#12, 1-#12, 1-#12	15	1	13	0.2	1.3					14	2	25	2-#10, 1-#10, 1-#10	HP-1	
	EF-1, WOMEN'S 178	1-#12, 1-#12, 1-#12	15	1	15			0.2	1.3			16					
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
						3.2 kVA		3.8 kVA		2.7 kVA							
						28 A		33 A		22 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	2900 VA	80.00%	2320 VA	TOTAL CONNECTED LOAD:	9719 VA
LTNG	6219 VA	100.00%	6219 VA	TOTAL ESTIMATED DEMAND:	9139 VA
REC	600 VA	100.00%	600 VA	TOTAL CONNECTED CURRENT:	27 A
				TOTAL ESTIMATED DEMAND CURRENT:	25 A

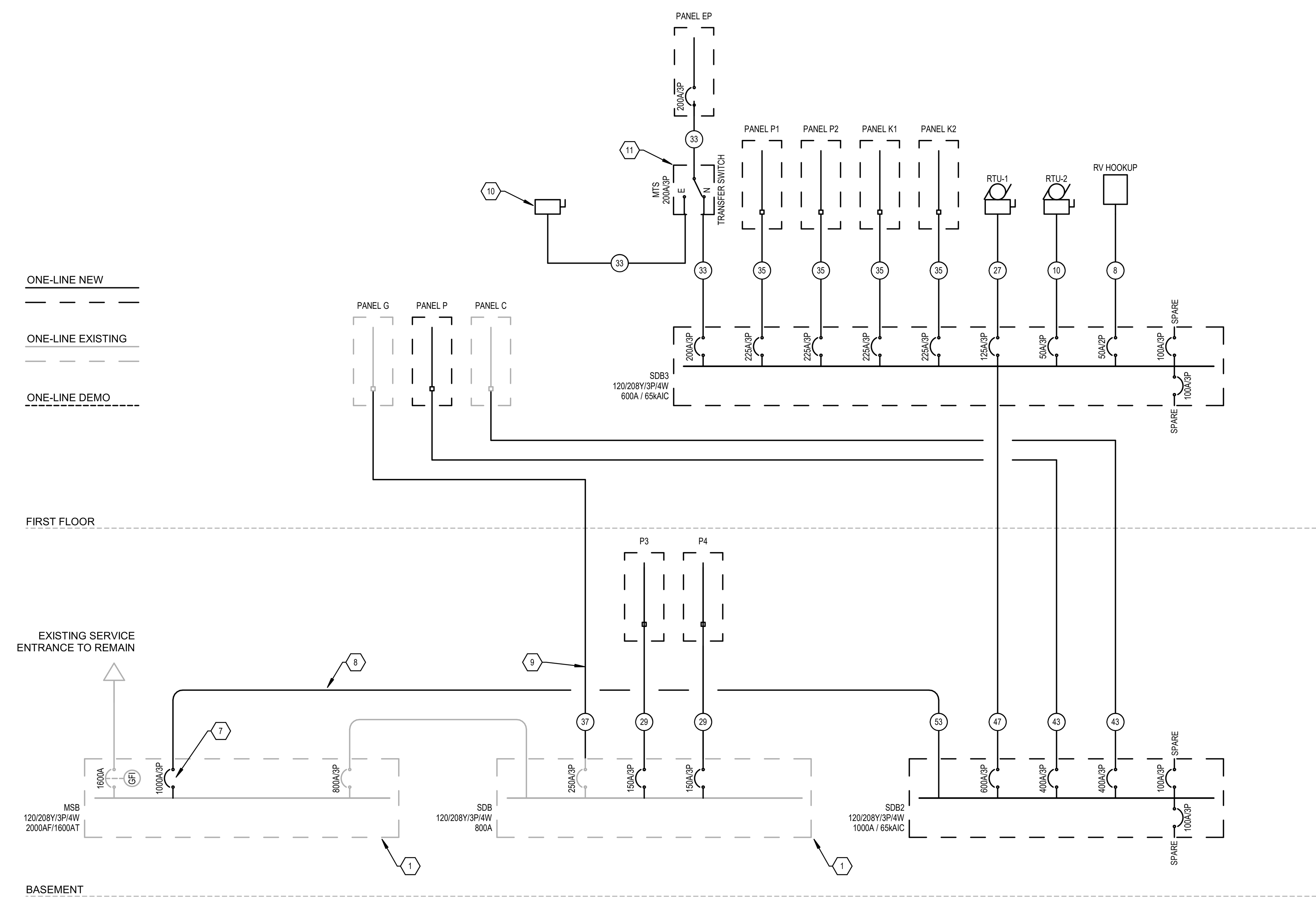
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

ELEC - ONE-LINE FEEDER SCHEDULE

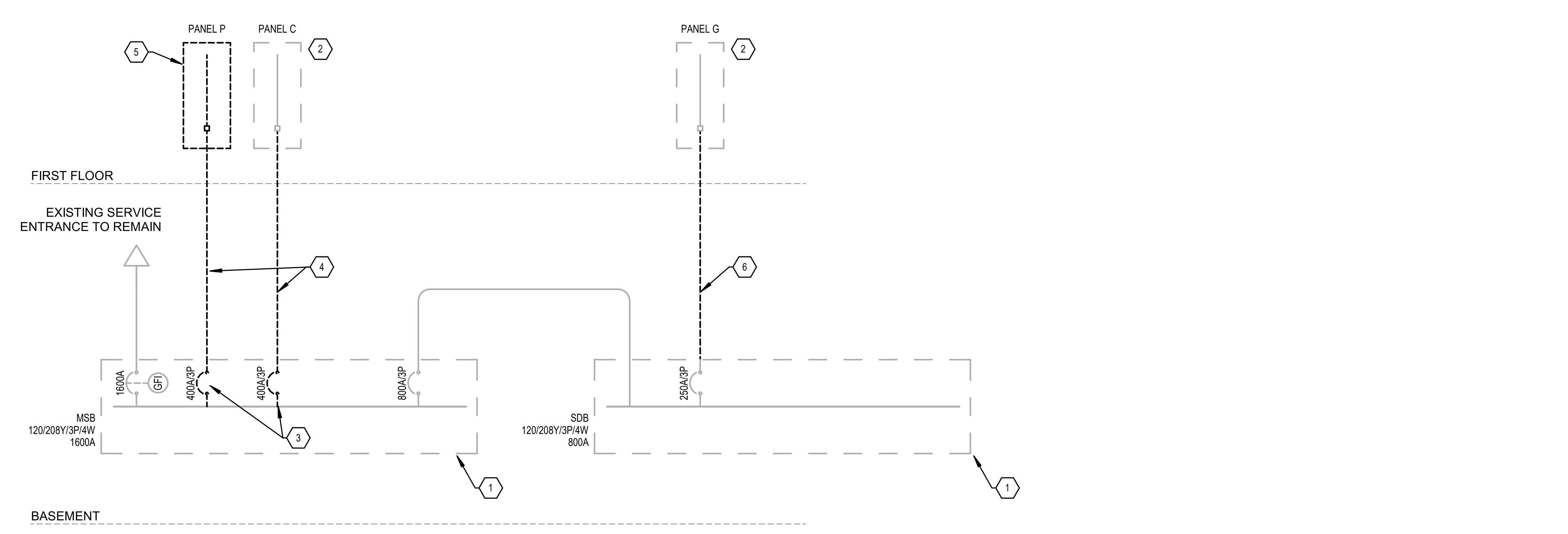
TAG	OCPD SETTING	WIRE SIZE	EQUIP. GROUND	CONDUIT SIZE
8	40/2 OR 50/2 (3W)	(3) #8	(1) #10	3/4"
10	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
27	125/3 (4W)	(4) #1	(1) #6	1-1/2"
29	150/3 (4W)	(4) #1/0	(1) #6	2"
33	200/3 (4W)	(4) #3/0	(1) #6	2"
35	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
37	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
43	400/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
47	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
53	1000/3 (4W)	3 RUNS OF (4) - #500 KCMIL/PHASE	(1) #2/0	3-1/2"

ELEC - ONE-LINE TAGGED NOTES

TAG	DESCRIPTION
1	FOR CLARITY NOT ALL EQUIPMENT AND BREAKERS ARE SHOWN.
2	PANEL IS EXISTING TO REMAIN AND SHALL BE REFED FROM NEW LOCATION. REFER TO NEW ONE-LINE DIAGRAM.
3	DEMOLISH BREAKER SERVING PANEL TO MAKE ROOM FOR NEW BREAKER.
4	DEMOLISH CONDUCTORS AND PORTION OF CONDUIT AS REQUIRED TO REFEED PANEL FROM NEW DISTRIBUTION PANEL. REFER TO NEW ONE-LINE DIAGRAM.
5	DEMOLISH PANEL AND REPLACE WITH NEW. MAINTAIN CIRCUITS AND EXTEND TO NEW PANEL. REFER TO DEMOLITION AND NEW WORK POWER PLANS.
6	DEMOLISH CONDUCTORS AND EXTERIOR PORTION OF CONDUIT TO ALLOW CONSTRUCTION OF NEW BUILDING ADDITION. REFEED PANEL FROM NEW DISTRIBUTION PANEL. REUSE INTERIOR PORTION OF CONDUIT LOCATED IN BASEMENT AND INDICATED BY TAGGED NOTES E32 AND E37 ON SHEET E4.0. REFER TO SITE DEMOLITION AND ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
7	PROVIDE NEW BREAKER IN SPACE MADE AVAILABLE BY DEMOLITION OF BREAKERS SERVING PANELS P AND C.
8	REFER TO ELECTRICAL OVERALL SHEET E6.3 FOR ROUTING AND ADDITIONAL INFORMATION.
9	PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT WHERE POSSIBLE. PROVIDE NEW CONDUIT AT BUILDING EXTERIOR AND IN MECHANICAL ROOM. REFER TO SITE ELECTRICAL AND POWER PLANS FOR ADDITIONAL INFORMATION.
10	PROVIDE 200A EXTERIOR RATED GENERATOR CONNECTION PANEL WITH CAMLOCKS. REFE TO POWER PLANS FOR LOCATION. MODEL # SHALL BE TRYSTAR GDR-02-3-W-LM-J OR APPROVED EQUAL.
11	PROVIDE 200A/3P/4W MANUAL TRANSFER SWITCH.



NEW ONE-LINE DIAGRAM
SCALE: NO SCALE
2
E8.1



EXISTING ONE-LINE DIAGRAM
SCALE: NO SCALE
1
E8.1

PANELBOARD AND WIRING SCHEDULE

PANEL: P3 **MAINS TYPE:** MLO **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** MECH. ROOM B106B
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:** SDB2

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - B101	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.7					2	1	20	1-#8, 1-#8, 1-#8	REC - B101	
	REC - B101	1-#12, 1-#12, 1-#12	20	1	3			0.4	0.7			4	1	20	1-#8, 1-#8, 1-#8	REC - B101	
	REC - B101	1-#8, 1-#8, 1-#8	20	1	5					0.9	0.4	6	1	20	1-#12, 1-#12, 1-#12	REC - B102	
	REC - B101	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.7					8	1	20	1-#10, 1-#10, 1-#10	REC - B102	
	REC - B102	1-#12, 1-#12, 1-#12	20	1	9			0.4	0.7			10	1	20	1-#10, 1-#10, 1-#10	REC - B102	
	REC - B103	1-#10, 1-#10, 1-#10	20	1	11					0.9	0.4	12	1	20	1-#12, 1-#12, 1-#12	REC - B103	
	REC - B103	1-#10, 1-#10, 1-#10	20	1	13	0.7	0.4					14	1	20	1-#12, 1-#12, 1-#12	REC - B103	
	REC - B103	1-#12, 1-#12, 1-#12	20	1	15			0.4	0.4			16	1	20	1-#12, 1-#12, 1-#12	REC - B102	
	REC - B103	1-#10, 1-#10, 1-#10	20	1	17					0.9	0.4	18	1	20	1-#12, 1-#12, 1-#12	REC - B104	
	REC - B104	1-#12, 1-#12, 1-#12	20	1	19	0.2	0.9					20	1	20	1-#12, 1-#12, 1-#12	REC - B105, B105A	
	REC - B104	1-#10, 1-#10, 1-#10	20	1	21			0.7	0.7			22	1	20	1-#12, 1-#12, 1-#12	REC - B104	
	REC - B105	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.2	24	1	20	1-#12, 1-#12, 1-#12	REC - B105	
	REC - B102	1-#10, 1-#10, 1-#10	20	1	25	0.9	0.4					26	1	20	1-#12, 1-#12, 1-#12	REC - B100	
	REC - B104	1-#12, 1-#12, 1-#12	20	1	27			0.9	0.1			28	3	50	3-#6, 1-#6, 1-#10	REC - B105	
	LTNG - B103	1-#12, 1-#12, 1-#12	20	1	29					0.0	0.1	30					
	CHP-018 - B102	2-#12, 1-#12, 1-#12	20	2	31	0.3	0.1					32					
					33			0.3	0.3			34	2	20	2-#12, 1-#12, 1-#12	CHP-018 - B103	
	CHP-018 - B104	2-#12, 1-#12, 1-#12	20	2	35					0.3	0.3	36					
					37	0.3	0.3					38	2	20	2-#12, 1-#12, 1-#12	CHP-018 -. B105	
	EF-1 - B105A	1-#12, 1-#12, 1-#12	20	1	39			0.5	0.3			40					
	SS-1 - 175D	2-#12, 1-#12, 1-#12	20	2	41					0.0	2.7	42	3	40	3-#8, 1-#8, 1-#10	DOAS-1	
					43	0.0	2.7					44					
	HAND DRYER B105A	1-#10, 1-#10, 1-#10	20	1	45			1.5	2.7			46					
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						9.1 kVA		10.7 kVA		7.7 kVA							
						78 A		91 A		64 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1500 VA	100.00%	1500 VA	TOTAL CONNECTED LOAD:	27564 VA
HVAC	10744 VA	80.00%	8595 VA	TOTAL ESTIMATED DEMAND:	23755 VA
LTNG	0 VA	0.00%	0 VA	TOTAL CONNECTED CURRENT:	77 A
Motor	2000 VA	100.00%	2000 VA	TOTAL ESTIMATED DEMAND CURRENT:	66 A
REC	13320 VA	87.54%	11660 VA		

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: P4 **MAINS TYPE:** MLO **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** MECH. ROOM B106B
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:** SDB2

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - 102	1-#10, 1-#10, 1-#10	20	1	1	0.5	0.5					2	1	20	1-#10, 1-#10, 1-#10	REC - 102	
	REC - 102	1-#8, 1-#8, 1-#8	20	1	3			0.9	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC - 102	
	REC - 102	1-#12, 1-#12, 1-#12	20	1	5					0.4	1.0	6	3	50	3-#6, 1-#6, 1-#10	REC - 102	
	REC - 102	1-#6, 1-#6, 1-#6	20	1	7	1.2	1.0					8					
	REC - 102	1-#6, 1-#6, 1-#6	20	1	9			1.2	1.0			10					
	REC - 102	1-#6, 1-#6, 1-#6	20	1	11					1.2	0.4	12	1	20	1-#12, 1-#12, 1-#12	REC - 101	
	REC - 101	1-#8, 1-#8, 1-#8	20	1	13	1.2	0.4					14	1	20	1-#12, 1-#12, 1-#12	REC - 101	
	REC - 101, 102A, 101A	1-#10, 1-#10, 1-#10	20	1	15			0.5	0.2			16	1	20	1-#12, 1-#12, 1-#12	REC - 102	
	REC - 101	1-#12, 1-#12, 1-#12	20	1	17					0.4	0.2	18	1	20	1-#12, 1-#12, 1-#12	EF-1 - 102A	
	EF-2 - 101A	1-#12, 1-#12, 1-#12	20	1	19	0.2	0.3					20	2	20	2-#12, 1-#12, 1-#12	CHP-012 - 101	
	CHP-018 - L100	2-#10, 1-#10, 1-#10	20	2	21			1.2	0.3			22					
					23					1.2	1.2	24	2	20	2-#8, 1-#8, 1-#8	CHP-018 - 102	
	CHP-018 - B101	2-#12, 1-#12, 1-#12	20	2	25	0.3	1.2					26					
					27			0.3	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
						6.8 kVA		5.9 kVA		5.9 kVA							
						56 A		49 A		49 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	3000 VA	100.00%	3000 VA	TOTAL CONNECTED LOAD:	18500 VA
HVAC	6240 VA	80.00%	4992 VA	TOTAL ESTIMATED DEMAND:	17252 VA
Motor	500 VA	100.00%	500 VA	TOTAL CONNECTED CURRENT:	51 A
REC	8760 VA	100.00%	8760 VA	TOTAL ESTIMATED DEMAND CURRENT:	48 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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ELECTRICAL SCHEDULES - PANELBOARDS
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

M,E,&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
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BG# 19-262
Project No: 1904
Drawn By: CH
Rev'd By: CJC

SHEET RELEASE		
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CONSTRUCTION DOCUMENTS

E8.1

ELECTRICAL SCHEDULES - PANELBOARDS
DATE ISSUED:
9/13/19

REVISIONS

#	DATE	DESCRIPTION

PANELBOARD AND WIRING SCHEDULE

PANEL: K1
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 225 A
MAINS TYPE: MLO
SPD: No
MOUNTING: FLUSH
PANEL INTERRUPTING RATING: 10,000
LOCATION:
SUPPLY FROM: SDB3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	KITCHEN E-STOP - 175A	1-#12, 1-#12, 1-#12	20	1	1	0.0	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC - 175	1
1	REC - 175G	1-#12, 1-#12, 1-#12	20	1	3			0.7	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC - ICE CREAM FREEZER - 175	1
1	REC - 175A	1-#12, 1-#12, 1-#12	20	1	5					0.4	1.0	6	1	20	1-#10, 1-#10, 1-#10	REC - MILK COOLER - 175A	1
1	REC - 175A	1-#12, 1-#12, 1-#12	20	1	7	0.5	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC - 175	1
1	REC - 175D	1-#12, 1-#12, 1-#12	20	1	9			0.7	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC - MILK COOLER - 175A	1
1	REC - 175B	1-#12, 1-#12, 1-#12	20	1	11					0.9	1.4	12	1	20	1-#12, 1-#12, 1-#12	REC - HEATED DISPLAY - 175	1
1	REC - ICE MACHINE - 175A	1-#12, 1-#12, 1-#12	20	1	13	1.1	1.6					14	1	20	1-#10, 1-#10, 1-#10	REC - PASS THRU REF - 175A	1
1	REC - TWIN COFFEE - 175	1-#8, 1-#8, 1-#10	40	1	15			3.4	0.2			16	1	20	1-#12, 1-#12, 1-#12	REC - DOOR MERCH - 175	1
	FREEZER/COOLER LIGHTS	1-#8, 1-#8, 1-#8	20	1	17					2.4	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC - 175A	1
1	REC - 175	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.9					20	1	20	1-#8, 1-#8, 1-#8	REC - EXTERIOR	
1	REC - 176	1-#12, 1-#12, 1-#12	20	1	21			0.5	1.4			22	1	20	1-#12, 1-#12, 1-#12	REC - SLUSH MACHINE - 175	1
1	REC - 175C	1-#12, 1-#12, 1-#12	20	1	23					0.7	1.4	24	1	20	1-#12, 1-#12, 1-#12	REC - CASHIER STATION - 175	1
	FOOD DISPOSER - 175G	3-#12, 1-#12, 1-#12	20	3	25	0.7	1.4					26	1	20	1-#10, 1-#10, 1-#10	REC - CASHIER STATION - 175	1
					27			0.7	5.5			28	3	60	3-#6, 1-#6, 1-#10	DISHWASHER - 175G	
					29					0.7	5.5	30					
1	WASHER - 175C	1-#12, 1-#12, 1-#12	20	1	31	1.2	5.5					32					
	CU-1	2-#12, 1-#12, 1-#12	20	2	33			1.3	2.5			34	2	50	2-#6, 1-#6, 1-#10	DRYER - 175C	1
					35					1.3	2.5	36					
1	SERVING TABLE	2-#12, 1-#12, 1-#12	20	2	37	1.5	1.0					38	1	20	1-#12, 1-#12, 1-#12	REC - ICE MACHINE 176	1
					39			1.5	0.5			40	1	20	1-#12, 1-#12, 1-#12	TRAP PRIMER	
1	SERVING TABLE	2-#12, 1-#12, 1-#12	20	2	41					1.5	0.5	42	1	20	1-#12, 1-#12, 1-#12	TRAP PRIMER	
					43	1.5	1.5					44	1	20	1-#12, 1-#12, 1-#12	HAND DRYER 175C.1	
1	SERVING TABLE - SMALL	2-#12, 1-#12, 1-#12	20	2	45			1.0	1.5			46	1	20	1-#8, 1-#8, 1-#8	HAND DRYER 177	
					47					1.0	1.5	48	1	20	1-#8, 1-#8, 1-#8	HAND DRYER 178	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						20.1 kVA		22.3 kVA		23.1 kVA							
						167 A		189 A		196 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	7900 VA	100.00%	7900 VA	TOTAL CONNECTED LOAD:	65556 VA
HVAC	2500 VA	80.00%	2000 VA	TOTAL ESTIMATED DEMAND:	51737 VA
REC	36638 VA	63.65%	23319 VA	TOTAL CONNECTED CURRENT:	182 A
KITCH	18518 VA	100.00%	18518 VA	TOTAL ESTIMATED DEMAND CURRENT:	144 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

1. BREAKER TO BE GFCI TYPE.

PANELBOARD AND WIRING SCHEDULE

PANEL: K2
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 225 A
MAINS TYPE: MLO
SPD: No
MOUNTING: FLUSH
PANEL INTERRUPTING RATING: 10,000
LOCATION:
SUPPLY FROM: SDB3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	FOOD DISPOSER - 175A	3-#12, 1-#12, 1-#12	15	3	1	0.4	0.2					2	1	20	1-#12, 1-#12, 1-#12	DOOR HARDWARE - KITCHEN	
					3			0.4	0.0			4	1	20	--	SPARE	
					5					0.4	0.6	6	1	20	1-#12, 1-#12, 1-#12	REC - ALARM PHONE DIALER -...	1
	COOLER BLOWER - 175F	2-#12, 1-#12, 1-#12	20	2	7	1.0	4.0					8	3	50	3-#6, 1-#6, 1-#10	PASS THRU HEAT & HOLD - 175A	1
					9			1.0	4.0			10					
2	REC - HEAT TAPE - 175E	1-#6, 1-#6, 1-#6	20	1	11					2.4	4.0	12					
1	REC - HOT WATER DISP - 175A	2-#8, 1-#8, 1-#10	35	2	13	2.5	0.7					14	3	50	3-#6, 1-#6, 1-#10	PASS THRU HEAT & HOLD - 175A	1
					15			2.5	0.7			16					
1	PASS THRU HEAT & HOLD - 175A	3-#6, 1-#6, 1-#10	50	3	17					4.0	0.7	18					
					19	4.0	1.6					20	3	20	3-#12, 1-#12, 1-#12	FREEZER BLOWER - 175E	
					21			4.0	1.6			22					
	UH-1	2-#12, 1-#12, 1-#12	15	2	23					0.8	1.6	24					
					25	0.8	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.2					32	1	15	1-#12, 1-#12, 1-#12	EF-1, RESTROOM 175C.1	
	SPARE	--	20	1	33			0.0	0.2			34	1	15	1-#12, 1-#12, 1-#12	EF-1, STAFF LOCKER 175C	
	SPARE	--	20	1	35					0.0	0.2	36	1	15	1-#12, 1-#12, 1-#12	EF-2, ICE MACH. 176	
	SPARE	--	20	1	37	0.0	2.5					38	1	20	1-#12, 1-#12, 1-#12	KITCHEN BUZZER PSU	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
3	ENERGY DISTRIBUTION - 175A	3-#4, 1-#4, 1-#8	70	3	47					6.0	1.7	48	3	20	3-#12, 1-#12, 1-#12	KITCHEN MAU - ROOF	3
					49	6.0	1.7					50					
					51			6.0	1.7			52					
--	SPACE FOR SHUNT TRIP	--	--	--	53					0.0	0.0	54	--	--	--	SPACE FOR SHUNT TRIP	--
						25.6 kVA		22.1 kVA		22.3 kVA							
						213 A		184 A		186 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	9312 VA	100.00%	9312 VA	TOTAL CONNECTED LOAD:	69984 VA
HVAC	7326 VA	80.00%	5861 VA	TOTAL ESTIMATED DEMAND:	56519 VA
REC	34000 VA	64.71%	22000 VA	TOTAL CONNECTED CURRENT:	194 A
KITCH	19346 VA	100.00%	19346 VA	TOTAL ESTIMATED DEMAND CURRENT:	157 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

1. BREAKER TO BE GFCI TYPE.
2. BREAKER TO BE GFPE TYPE.
3. BREAKER TO BE SHUNT TRIP TYPE.

PANELBOARD AND WIRING SCHEDULE

PANEL: EP
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 200 A
MAINS TYPE: MCB
SPD: No
MOUNTING: SURFACE
PANEL INTERRUPTING RATING: 14,000
LOCATION: ELECT. 172A
SUPPLY FROM: SDB3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	UH-2, WATER ENT. 176A	2-#10, 1-#10, 1-#10	20	2	1	1.3	1.7					2	3	20	3-#10, 1-#10, 1-#10	FREEZER COMPRESSOR - ROOF	
					3			1.3	1.7			4					
	COOLER COMPRESSOR - ROOF	2-#10, 1-#10, 1-#10	20	2	5					1.1	1.7	6					
					7	1.1	0.0					8	--	--	--	SPACE	--
--	SPACE	--	--	--	9			0.0	0.0			10	--	--	--	SPACE	--
--	SPACE	--	--	--	11					0.0	0.0	12	--	--	--	SPACE	--
--	SPACE	--	--	--	13	0.0	0.0					14	--	--	--	SPACE	--
--	SPACE	--	--	--	15			0.0	0.0			16	--	--	--	SPACE	--
--	SPACE	--	--	--	17					0.0	0.0	18	--	--	--	SPACE	--
--	SPACE	--	--	--	19	0.0	0.0					20	--	--	--	SPACE	--
--	SPACE	--	--	--	21			0.0	0.0			22	--	--	--	SPACE	--
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
						4.0 kVA		3.0 kVA		2.8 kVA							
						34 A		25 A		23 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	9728 VA	80.00%	7782 VA	TOTAL CONNECTED LOAD:	9728 VA
				TOTAL ESTIMATED DEMAND:	7782 VA
				TOTAL CONNECTED CURRENT:	27 A
				TOTAL ESTIMATED DEMAND CURRENT:	22 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: P
VOLTAGE: 208Y/120V,3P,4W
AMPERES: 400 A
MAINS TYPE: MLO
SPD: No
MOUNTING: SURFACE
PANEL INTERRUPTING RATING: 10,000
LOCATION: MECH. 3
SUPPLY FROM: MSB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
1	*EXISTING CIRCUIT	--	20	1	1	0.0	0.0					2	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	3			0.0	0.0			4	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	5					0.0	0.0	6	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	7	0.0	0.0					8	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	9			0.0	0.0			10	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	11					0.0	0.0	12	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	13	0.0	0.0					14	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	15			0.0	0.0			16	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	17					0.0	0.0	18	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	19	0.0	0.0					20	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	1	21			0.0	0.0			22	1	20	--	*EXISTING CIRCUIT	1
1	*EXISTING CIRCUIT	--	20	3	23					0.0	0.0	24	1	20	--	*EXISTING CIRCUIT	1
					25	0.0	0.0					26	3	30	--	*EXISTING CIRCUIT	1
					27			0.0	0.0			28					
1	*EXISTING CIRCUIT	--	30	3	29					0.0	0.0	30					
					31	0.0	0.0					32	3	20	--	*EXISTING CIRCUIT	1
					33			0.0	0.0			34					
1	*EXISTING CIRCUIT	--	20	1	35					0.0	0.0	36					
1	*EXISTING CIRCUIT	--	70	2	37	0.0	0.0					38	2	30	--	*EXISTING CIRCUIT	1
					39			0.0	0.0			40					
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	RP-1	1-#12, 1-#12, 1-#12	20	1	47					0.5	0.0	48	1	20	--	SPARE	
	WH-1	3-#1, 1-#1, 1-#6	125	3	49	12.0	0.0					50	1	20	--	SPARE	
					51			12.0	0.0			52	1	20	--	SPARE	
					53					12.0	0.0	54	1	20	--	SPARE	
						12.0 kVA		12.0 kVA		12.5 kVA							
						100 A		100 A		104 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	36500 VA	100.00%	36500 VA	TOTAL CONNECTED LOAD:	36500 VA
				TOTAL ESTIMATED DEMAND:	36500 VA
				TOTAL CONNECTED CURRENT:	101 A
				TOTAL ESTIMATED DEMAND CURRENT:	101 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

1. REFEED EXISTING CIRCUIT MATCHING PREVIOUS OVERCURRENT PROTECTION AND WIRE SIZES. EXTEND WIRING TO NEW BREAKERS AND TERMINATE. FIELD VERIFY REQUIREMENTS. PROVIDE NEW TYPE WRITTEN PANEL SCHEDULE. CONTRACTOR SHALL DOCUMENT EXISTING CIRCUIT DESCRIPTION UTILIZING EXISTING PANEL SCHEDULE AND TRANSFER CIRCUIT DESCRIPTIONS TO NEW PANEL. NO CIRCUIT SHALL READ "EXISTING CIRCUIT" AT COMPLETION OF PROJECT.

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ELECTRICAL SCHEDULES - PANELBOARDS
BURGIN INDEPENDENT SCHOOLS RENOVATION & ADDITION
FOR:
BURGIN INDEPENDENT BOARD OF EDUCATION
BURGIN, KENTUCKY

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2429 Members Way
Lexington, KY 40504
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 19-262

Project No: 1904
Drawn By: CH
Rev'd By: CJC

SHEET RELEASE		
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3		
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CONSTRUCTION DOCUMENTS

E8.2

ELECTRICAL SCHEDULES -
PANELBOARDS
DATE ISSUED:
9/13/19