SPENCER COUNTY
EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION

206 REASOR AVENUE
TAYLORSVILLE, KENTUCKY

BG NO. 19-371

SCB PROJECT NO. 1933

CONSTRUCTION DOCUMENTS
DECEMBER 16, 2019

OWNER:

SPENCER COUNTY BOARD OF EDUCATION

SANDY CLEVENGER, BOARD CHAIR
JANET BONHAM, VICE CHAIR
DEBBIE HERNDON
LYNN SHELBURNE
JEANIE STEVENS
CHARLES ADAMS, SUPERINTENDENT

INDEX TO DRAWINGS

MECHANICAL/ELECTRICAL ENGINEER

SHROUT TATE WILSON
MECHANICAL AND ELECTRICAL ENGINEERS
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LEXINGTON, KY 40505
P (859) 277-8177 F (859) 277-8372

STRUCTURAL ENGINEER

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KITCHEN EQUIPMENT CONSULTANT

JOBY SMITH AND ASSOCIATES
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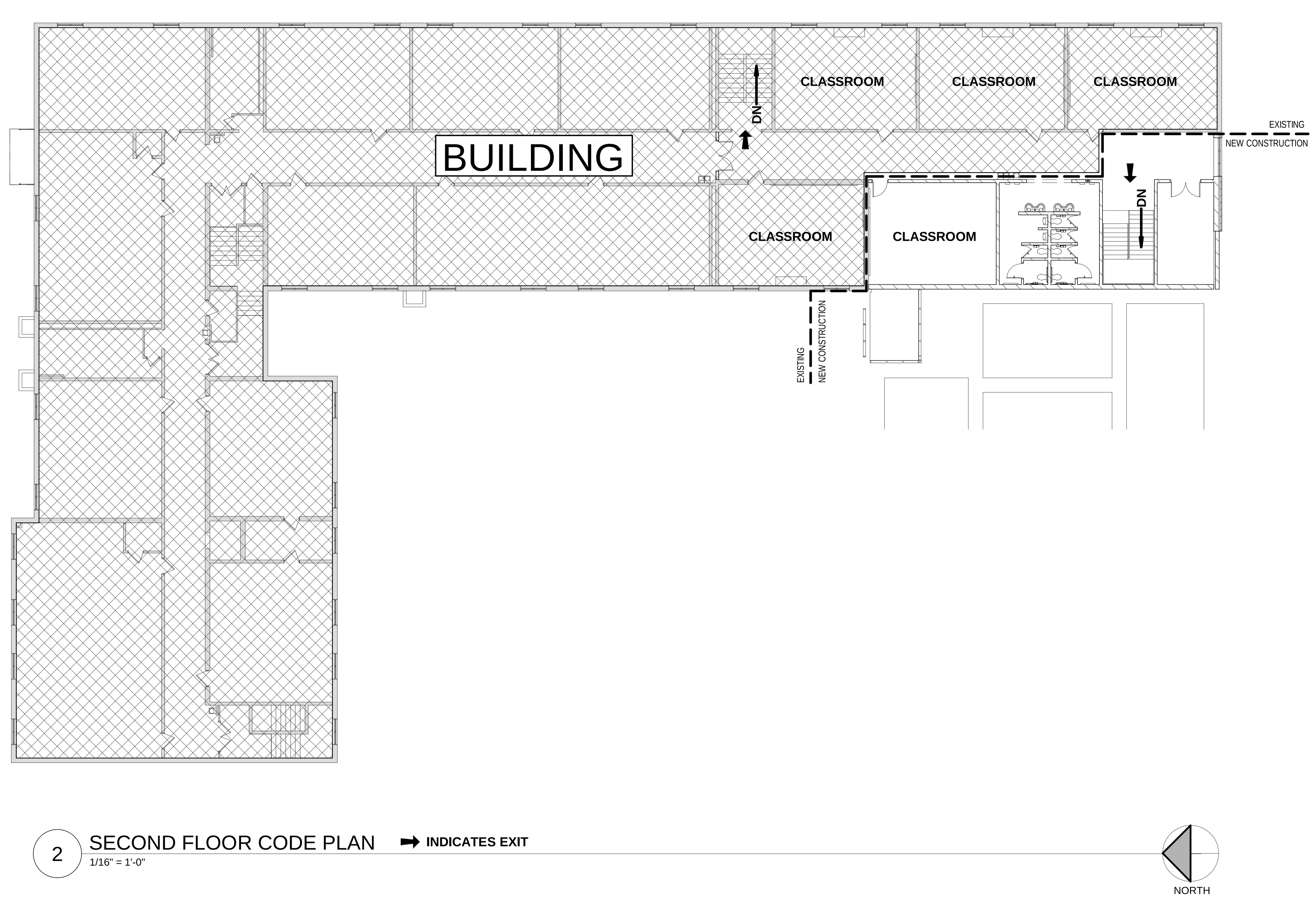
MONROE, OH 45050

SHERMAN CARTER BARNHART ARCHITECTS, PLLC

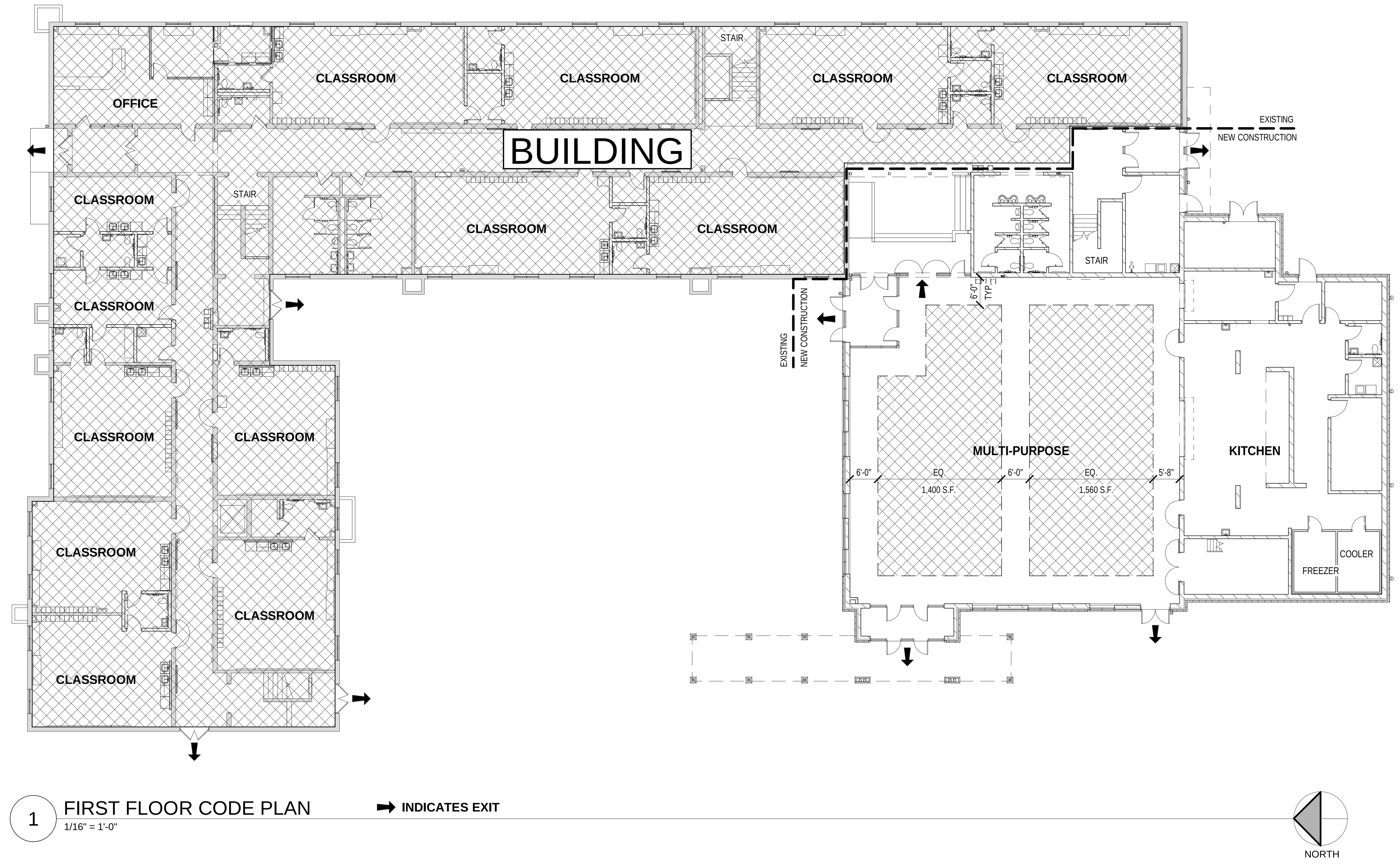
PROJECT MANAGER:
ALLISON COMMINGS

2405 HARRODSBURG ROAD
LEXINGTON, KY 40504-3329
PHONE: 859.224.1351
FAX: 859.224.8446

www.scbarchitects.com



2 SECOND FLOOR CODE PLAN
1/16" = 1'-0"
➡ INDICATES EXIT



1 FIRST FLOOR CODE PLAN
1/16" = 1'-0"
➡ INDICATES EXIT

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KY. BUILDING CODE

NOTE: IN ADDITION TO OTHER TESTS AND INSPECTIONS REQUIRED TO BE PROVIDED BY THE CONTRACTOR IN THE SPECIFICATIONS, THE OWNER SHALL PROVIDE THE SERVICES OF QUALIFIED THIRD-PARTY INSPECTORS TO PERFORM ALL REQUIRED SPECIAL INSPECTIONS AS FOLLOWS:

SECTION	ITEM	REQUIRED YES	REQUIRED NO	REMARKS
1704.2.5	FABRICATED ITEMS	X	_	STEEL FABRICATION SPECIAL INSPECTION IS REQUIRED IF THE FABRICATOR IS NOT A.I.S.C. OR AWS CERTIFIED
1704.6.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	_	X	SEISMIC DESIGN CATEGORY "B"
1704.6.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	_	X	V ASD < 110 MPH
1705.2	STEEL	X	_	PER AISC 360 & TABLE 1705.2.2
1705.3	CONCRETE	X	_	PER TABLE 1705.3
1705.4	MASONRY	X	_	PER 1705.4
1705.5	WOOD	_	X	NONE
1705.6	SOILS	X	_	PER 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS	_	X	NONE
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS	_	X	NONE
1705.9	HELICAL PILE FOUNDATIONS	_	X	NONE
1705.10.1	WIND - STRUCTURAL WOOD	_	X	NONE
1705.10.2	WIND - COLD FORMED STEEL FRAMING	_	X	NONE
1705.10.3	WIND - WIND RESISTING COMPONENTS	_	X	NONE
1705.11.1	SEISMIC - STRUCTURAL STEEL	_	X	SEISMIC DESIGN CATEGORY "C"
1705.11.2	SEISMIC - STRUCTURAL WOOD	_	X	SEISMIC DESIGN CATEGORY "C"
1705.11.3	SEISMIC - COLD FORMED STEEL FRAMING	_	X	SEISMIC DESIGN CATEGORY "C"
1705.11.4	DESIGNATED SEISMIC SYSTEMS	_	X	NONE
1705.11.5	SEISMIC - ARCHITECTURAL COMPONENTS - INTERIOR/ EXTERIOR NON-LOAD BEARING WALLS AND VENEER IN STRUCTURES	_	X	SEISMIC DESIGN CATEGORY "C"
1705.11.6	SEISMIC - MECHANICAL AND ELECTRICAL COMPONENTS	_	X	SEISMIC DESIGN CATEGORY "C"
1705.11.7	SEISMIC - STORAGE RACKS AND ACCESS FLOORS	_	X	NONE
1705.13	SPRAYED FIREPROOFING	_	X	NONE
1705.14	FIREPROOFING	_	X	NONE
1705.15	E.I.F.S	_	X	NONE
1705.16	FIRE-RESISTANT PENETRATIONS AND JOINTS	X	_	PER 1705.16
1705.17	SMOKE CONTROL	_	X	NONE

NOTE:

1. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL LOADING INFORMATION INCLUDING SEISMIC, WIND AND SNOW LOADS
2. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS REGARDING SPECIAL INSPECTIONS.

STRUCTURAL DESIGN LOADS

(REFER TO SHEET S0.1)

SEISMIC DESIGN CRITERIA

(REFER TO SHEET S0.1)

CODE INFORMATION

BUILDING AREA LEGEND AND CALCULATIONS

BUILDING	ACTUAL AREA (PER FLOOR)	TOTAL ALLOWABLE AREA PER TABLE 506.2 (PER FLOOR)
(hatch)	FIRST FLOOR 27,025 SF SECOND FLOOR 18,315	43,500 SF

BUILDING HEIGHT CALCULATION

ALLOWABLE HEIGHT
PER TABLE 504.3 = 75'-0"

ALLOWABLE STORIES :
PER TABLE 504.3 = 3

ACTUAL STORIES / HEIGHT
BUILDING = 2 STORIES / 25'-0"

ASSEMBLY AREAS OCCUPANT LOAD / EGRESS CALCULATIONS

FULLY SPRINKLERED WITH VOICE ALARM

MULTI-PURPOSE ROOM (ONE STORY):

EGRESS PROVIDED 297 INCHES /.15 = 1,813 MAX. OCCUPANTS

MAXIMUM CHAIR SEATING: 2,960 SF / 7 SF = 422 CHAIRS < 1,980 MAX OCCUPANTS

MINIMUM FIRE RESISTANCE RATINGS

ELEVATOR SHAFT ENCLOSURE — 1 HOUR FIRE BARRIER (EXISTING) EFB1

UL ASSEMBLY RATINGS

8" CMU WALL	-	UL NO.	U906 1HR
8" CMU WALL	-	UL NO.	U905 2HR
12" CMU WALL	-	UL NO.	U906 1HR
3 1/2" CONC., 3" METAL DECK	-	UL NO.	D906 2HR
3 1/2" CONC., 1 1/2" METAL DECK, STL. FLOOR JOISTS	-	UL NO.	G708 1HR
SHAFT WALL	-	UL NO.	U415 1HR
FR1 - 1 HR FIRE RESISTANT EXTERIOR WALL (TABLE 602)	-	UL NO.	U906 1HR
FW2 - 2 HR RATED FIRE WALL	-	UL NO.	U905 2HR

BUILDING 1

CODE	- 2018 KENTUCKY BUILDING CODE, 2ND EDITION
USE GROUP	- EDUCATION - GROUP E
CONSTRUCTION TYPE	- II B
FIRE PROTECTION:	- FULLY SPRINKLERED PER NFPA 13 WITH VOICE ALARM

ENERGY CODE COMPLIANCE

ASHRAE 90.1 - 2010 — COMCHECK SUBMITTED UNDER SEPARATE COVER

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

CODE INFORMATION

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

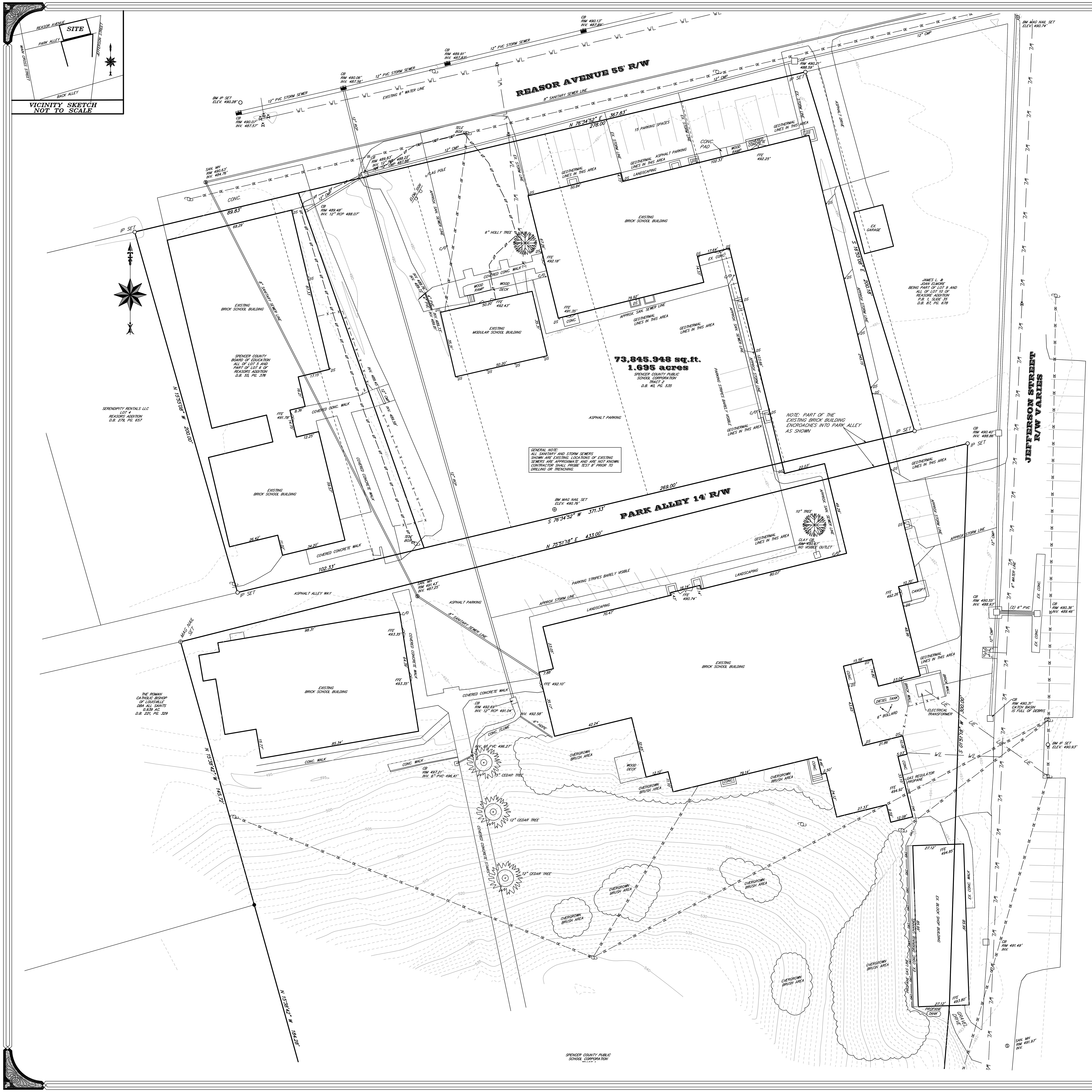
REVISIONS

No.	Description	Date

SHEET

C1.0

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:49:13 AM



PLAT OF SURVEY FOR

SPENCER COUNTY SCHOOLS

SITUATED IN

SPENCER COUNTY

KENTUCKY

ALL DATA SHOWN HEREON IS BASED ON KENTUCKY SINGLE ZONE STATE PLANE COODINATE SYSTEM NAD83 (2011) EPOCH 2010. ALL ELEVATION ARE NAVD88 (GEOID12B).

NOTE: NO TITLE REPORT WAS PROVIDED FOR THIS SURVEY. NO SUBSURFACE LOCATION HAS BEEN COMPLETED AND THEREFOR ALL UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION.

NO UNDERGROUND UTILITY LOCATION SERVICES WERE COMPLETED PRIOR TO THIS SURVEY OR UP TO THE REVISION DATE ON THIS SURVEY. ALL UTILITY LOCATIONS MUST BE VERIFIED PRIOR TO ANY EXCAVATION.

PART OF THIS PROPERTY IS IN THE AREA WITH FLOOD RISK DUE TO LEVEE (ZONE D) AND PART IS IN AREA OF MINIMAL FLOOD HAZARD (ZONE X) AS SHOWN ON FEMA FLOOD MAP 21215C0111C EFFECTIVE DATE 8/3/2009.

LEGEND

- ○ DENOTES: 1/2" X 24" REBAR SET W/ GREEN PLASTIC CAP STAMPED M. SIBOLE, PLS 3869
- ● DENOTES: 5/8" IRON PIN FOUND OTHERWISE NOTED
- DENOTES LIGHT POLE
- DENOTES UTILITY POLE
- Ⓢ DENOTES SANITARY MAN HOLE
- —DE— DENOTES OVERHEAD ELECTRIC
- —UE— DENOTES UNDERGROUND ELECTRIC
- —WL— DENOTES WATER LINE
- —GAS— DENOTES GAS LINE

0 10 20 30 40
GRAPHIC SCALE IN FEET

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAT DEPICTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, AND MEETS THE REQUIRMENTS OF A CLASS A (URBAN) SURVEY. THIS SURVEY WAS CONDUCTED USING RTK GPS PROCEDURES USING A JAVAD TRIUMPH 2 BASE AND A JAVAD TRIUMPH LS ROVER. THE RELATIVE PRECISIONAL ACCURACY FOR ANY ONE POINT ON THIS SURVEY DOES NOT EXCEED 0.05' + 100PPM. THIS PLAT MEETS OR EXCEEDS THE MINIMUM STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS IN KENTUCKY.

MATTHEW D. SIBOLE, PLS 3869 — 8-12-19 DATE

STATE of KENTUCKY
MATTHEW D. SIBOLE 3869
LICENSED PROFESSIONAL LAND SURVEYOR

PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY

PROPERTY BELONGING TO
SPENCER COUNTY BOARD OF EDUCTION
520 TAYLORSVILLE ROAD
TAYLORSVILLE, KENTUCKY 40071

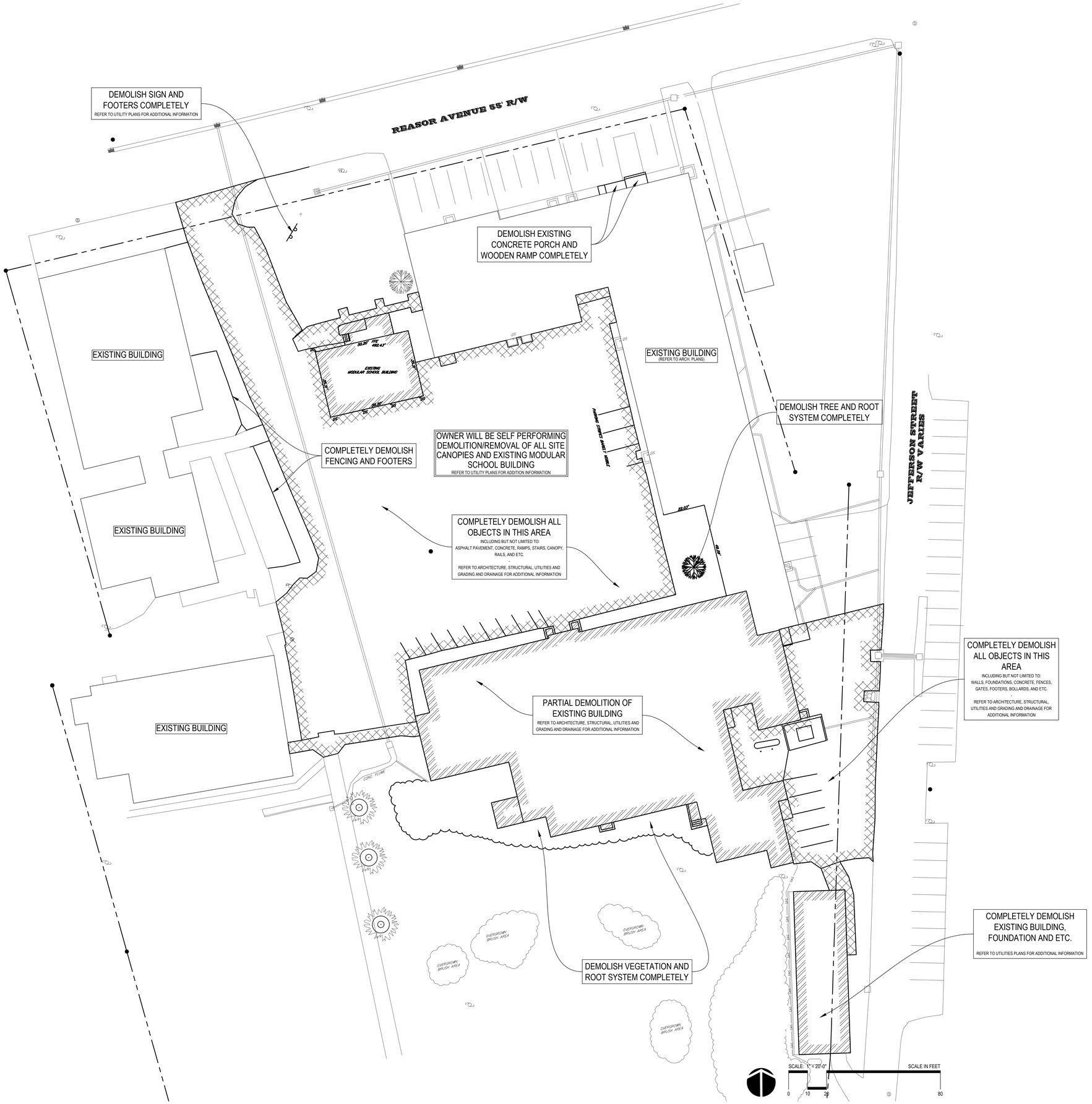
THIS PLAT OF SURVEY REPRESENTS A BOUNDARY SURVEY AND COMPLIES WITH 201 KAR 18:150

PARTIAL BOUNDARY SURVEY & TOPOGRAPHIC SURVEY OF ALL OF THE LANDS AS CONVEYED BY DEED TO SPENCER COUNTY BOARD OF EDUCATION IN D.B. 55, PG. 376 & PART OF TRACT 1 AND ALL OF TRACT 2 AS CONVEYED BY DEEED TO SPENCER COUNTY PUBLIC SCHOOL CORPORATION IN DEED BOOK 40, PAGE 535 OF THE SPENCER CO. KY CLERK'S RECORDS

LOCATED WEST OF JEFFERSON STREET SOUTH OF REASOR AVE. IN TAYLORSVILLE, KENTUCKY

SCALE: 1"= 20'
DATE: 7/17/2019
REV. 8/12/19
DWN BY: M.D.S
JOB NO.: 19088

MATTHEW SIBOLE SURVEYING
PROUDLY SERVING ALL OF KENTUCKY
P.O. BOX 1008
BRANDENBURG, KENTUCKY 40108
270-422-7737



GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VISIT AND OBSERVE THE SITE PRIOR TO SUBMITTING HIS BID AND SHALL INCLUDE IN HIS BID ALL WORK NECESSARY TO ACCOMPLISH THE NEW WORK, WHETHER OR NOT SHOWN ON THESE DEMOLITION DRAWINGS.
2. REFER TO SITE UTILITY PLANS FOR DEMOLITION AND/OR RELOCATION OF UTILITIES AND ADDITIONAL INFORMATION.
3. FOR CONCRETE REMOVAL, REMOVE TO THE NEAREST CONSTRUCTION JOINT. PROVIDE A CLEAN SAW CUT JOINT TO ALL EXISTING EDGES OF CONCRETE TO REMAIN.
4. ALL DEMOLISHED MATERIALS NOT SPECIFICALLY NOTED TO BE RETURNED TO OWNER OR DISPOSED OF IN SOME OTHER MANNER, ARE TO BE PROPERLY DISPOSED OF OFFSITE.
5. MAINTAIN 20'-0" FIRE LANE AT ALL TIMES DURING CONSTRICTION; COORDINATE W/ FIRE MARSHALL AND OWNER.

JOB SITE SAFETY

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION. JOB SITE SAFETY IS OUTSIDE THE SCOPE OF WORK OF SHERMAN CARTER BARNHART (SCB). NEITHER THE PROFESSIONAL ACTIVITIES OR THE PRESENCE OF SCB EMPLOYEES OR SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF THEIR OBLIGATION, DUTIES, AND RESPONSIBILITIES INCLUDED, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, TO PROCEDURES NECESSARY FOR PERFORMING SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY GOOD CONSTRUCTION PRACTICES OR ANY REGULATORY AGENCIES. ANYONE USING INFORMATION FROM THESE PLANS ACKNOWLEDGES AND WARRANTS THAT SHERMAN CARTER BARNHART IS NOT RESPONSIBLE FOR SITE SAFETY IN ANY WAY.

UTILITIES

THE UTILITIES ARE SHOWN ON THE DRAWINGS AS ACCURATELY AS THEY HAVE BEEN PROVIDED TO THE ARCHITECT. THEIR LOCATIONS ARE NOT GUARANTEED. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND TO HAVE ALL UTILITIES FIELD LOCATED, PRIOR TO STARTING CONSTRUCTION. THE UTILITIES SHOWN REPRESENT OBSERVABLE FEATURES ALONG WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES, AND IS THEREFORE NOT WARRANTED. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY LOCATIONS, SIZES, TYPE ETC. NEEDED TO COMPLETE THE WORK OF THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF A CONFLICT COULD EXIST. IF THE CONTRACTOR PROCEEDS WITHOUT CONTACTING THE UTILITY COMPANIES AND DOES NOT NOTIFY THE ARCHITECT OF POTENTIAL CONFLICTS HE DOES SO AT HIS OWN RISK.

LEGEND

- PROPERTY LINE
- LIMIT OF DISTURBANCE (WHEN OTHER THAN PROPERTY LINE)
- SITE DEMOLITION
- BUILDING DEMOLITION

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SITE DEMOLITION PLAN

JOB NO.	1933
DATE	12/16/2019
DRAWN	KRP
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

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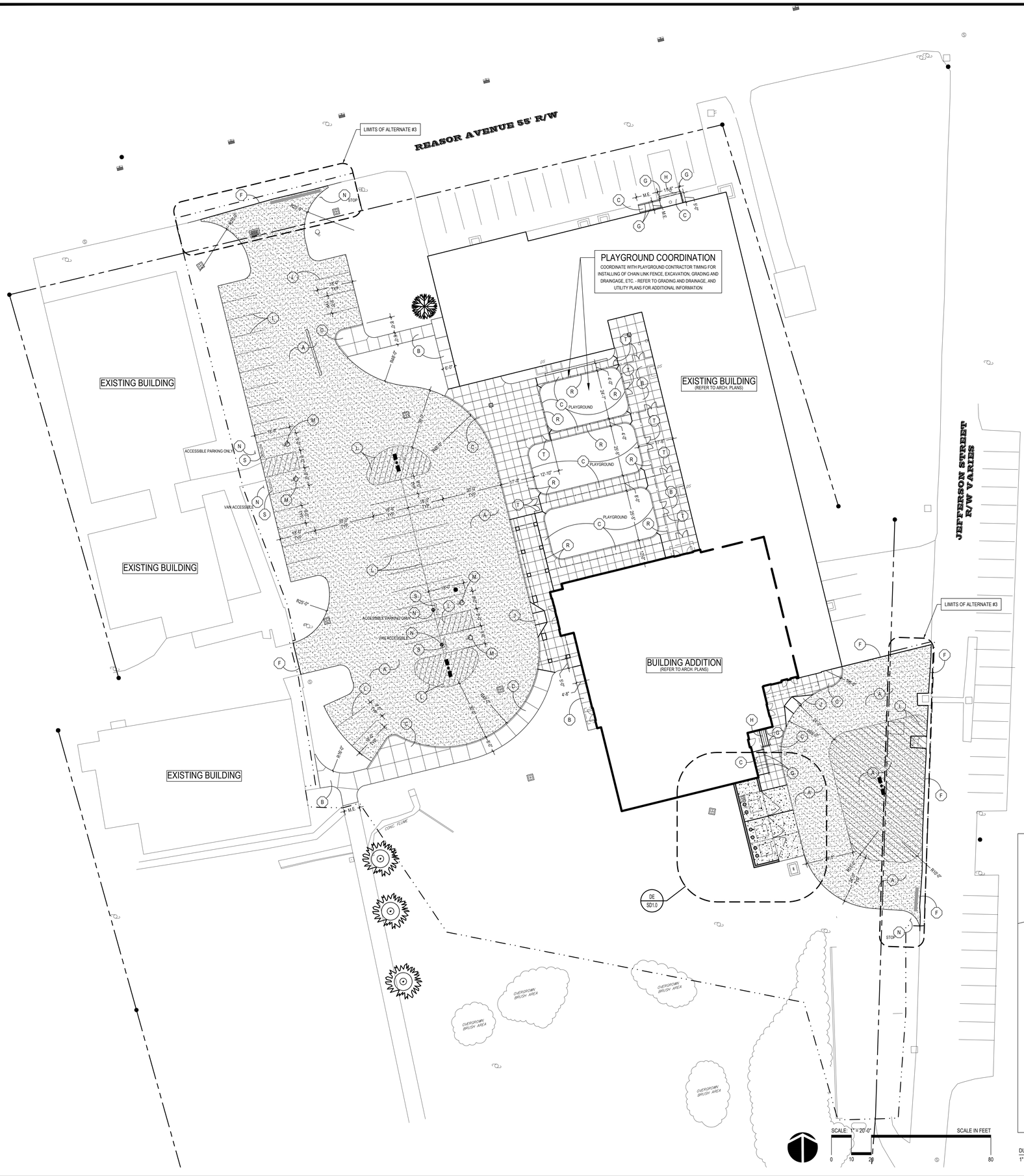

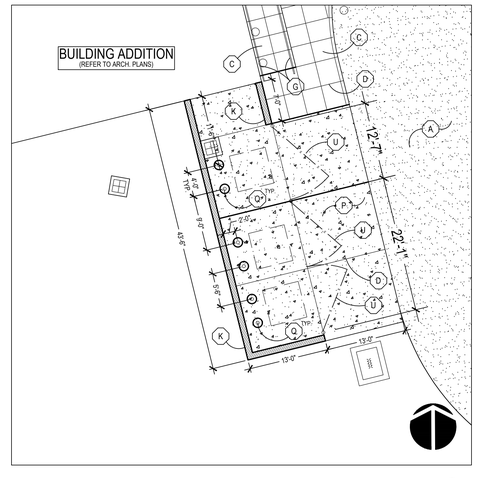

DUMPSTER ENCLOSURE
1" = 10'-0"

DE

GENERAL NOTES:

1. PROVIDE 1/2" EXP. JT. MATERIAL W / SEALANT WHERE NEW CONC. CURBS, WALKS, OR PAVING ABUT STORM SEWER STRUCTURES, BUILDINGS, ETC.
2. AT END OF PROJECT, CONTRACTOR SHALL REMOVE ALL TEMPORARY FENCING, TEMPORARY EROSION CONTROL STRUCTURES, AND OTHER TEMPORARY SERVICES ON SITE.
3. ALL RADII ARE TO BE 5' UNLESS SHOWN OTHERWISE.
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL GOVERNING AGENCIES.
5. ALL PERMITS AND BONDS ARE THE RESPONSIBILITY OF THE CONTRACTOR
6. ANY AREAS DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE SOD AND SHALL BE MAINTAINED UNTIL LAWN IS ESTABLISHED, AT NO ADDITIONAL COST TO THE OWNER.
7. STORM STRUCTURES ON THIS SHEET ARE FRO REFERENCE ONLY. REFER TO GRADING AND DRAINAGE PLANS FOR LOCATIONS, UNLESS OTHERWISE DIMENSIONED ON THIS SHEET.
8. UTILITIES ON THIS SHEET ARE FOR REFERENCE ONLY, REFER TO UTILITY PLANS FOR LOCATIONS. UNLESS OTHERWISE DIMENSIONED ON THIS SHEET.
9. CONTRACTOR TO COORDINATE STAGING, CONSTRUCTION ENTRANCE, AND NEW WORK WITH OWNER.
10. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR CONCRETE WALK CONNECTION TO BUILDING SLAB AT DOORWAYS
11. CIVIL CAD FILES WILL BE AVAILABLE TO SUCCESSFUL CONTRACTOR FOR LAYOUT PURPOSES UPON CONTRACTOR SIGNING OF RELEASE FORM. ANY ADDITIONAL DIMENSIONS REQUIRED FOR LAYOUT SHALL BE REQUESTED BY THE CONTRACTOR.
12. WHERE NEW UTILITY WORK OCCURS IN EXISTING PAVEMENT (REFER TO MEP PLANS), CONTRACTOR SHALL CUT AND PATCH PAVEMENT AS REQUIRED TO COMPLETE NEW WORK AND RESTORE PAVEMENT USING NEW ASPHALT PAVEMENT SECTION (AP/SD3.0). WHERE NEW ASPHALT PAVEMENT ABUTS EXISTING ASPHALT PAVEMENT USE EDGEKEY (EK/SD3.0). CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL DRAWINGS INCLUDING ALL SITE UTILITY DRAWINGS AND ASSOCIATED UTILITY TRENCHING

JOB SITE SAFETY:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION. JOB SITE SAFETY IS OUTSIDE THE SCOPE OF WORK OF SHERMAN CARTER BARNHART (SCB). NEITHER THE PROFESSIONAL ACTIVITIES OR THE PRESENCE OF SCB EMPLOYEES OR SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF THEIR OBLIGATION, DUTIES, AND RESPONSIBILITIES INCLUDED, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, TO PROCEDURES NECESSARY FOR PERFORMING SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY GOOD CONSTRUCTION PRACTICES OR ANY REGULATORY AGENCIES. ANYONE USING INFORMATION FROM THESE PLANS ACKNOWLEDGES AND WARRANTS THAT SHERMAN CARTER BARNHART IS NOT RESPONSIBLE FOR SITE SAFETY IN ANY WAY.

ASPHALT NOTE:

EXISTING AND PROPOSED ROADS AND PARKING AREAS ARE NOT DESIGNED TO ACCOMMODATE HIGH LOADS CREATED BY CONSTRUCTION VEHICLES. CONTRACTOR SHALL MAINTAIN, STABILIZE, AND REPAIR SUBGRADE/STONE BASE AND EXISTING ASPHALT PAVEMENT DAMAGED BY CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.

ALTERNATE #3:

PROVIDE AND INSTALL ASPHALT PAVEMENT, PAINT STRIPING, PAVEMENT APPLIED GRAPHICS, SIGNAGE, EARTHWORK, AND ETC. WHICH OCCURS IN PUBLIC RIGHT OF WAY.

SITE DETAILS KEY

KEY	DESCRIPTION	DETAIL
A	ASPHALT PAVEMENT	AP / SD3.0
B	CONCRETE WALK	CW / SD3.0
C	CONCRETE WALK W/ TURNED DOWN EDGE	TW / SD3.0
D	SAWN CONTROL JOINT	CW / SD3.0
E	EXPANSION JOINT W/ SEALANT	CW / SD3.0
F	EDGE KEY	EK / SD3.0
G	HANDRAIL	HR / SD3.0
H	STAIR	CS / SD3.0
J	CURB RAMP	CR / SD3.0
K	SCREEN WALL	SW / SD3.0
L	4" W. WHITE PAINT STRIPING	REFER TO SPECS.
M	PAVING APPLIED GRAPHICS	PG / SD3.0
N	TRAFFIC SIGN	TS / SD3.0
P	CONCRETE PAVEMENT	CP / SD3.0
Q	BOLLARD	PB / SD3.0
R	6'-0" H. CHAIN LINK FENCE	CF / SD3.0
S	WHEEL STOP	WS / SD3.0
T	CHAIN LINK GATE	CF / SD3.0
U	SCREEN GATE	SG / SD3.0

LEGEND

PROPERTY LINE

LIMIT OF DISTURBANCE (WHEN OTHER THAN PROPERTY LINE)

ASPHALT PAVEMENT

CONCRETE PAVEMENT

1:12 SLOPE

CONCRETE WALK/PAVEMENT

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SITE DEVELOPMENT PLAN

JOB NO.	1933
DATE	12/16/2019
DRAWN	KRP
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD1.0

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User Name: Kurt Prather
Sheet Layout: SD1.0

GRADING SITE LEGEND

REFER TO TOPOGRAPHIC SURVEY FOR EXISTING UTILITIES LEGEND

SYMBOLS	DESCRIPTION
500	EXISTING CONTOUR MINOR
500	EXISTING CONTOUR MAJOR
500	PROPOSED CONTOUR MINOR
500	PROPOSED CONTOUR MAJOR
×979.5	EXISTING SPOT ELEVATION
979.55	PROPOSED SPOT ELEVATION (AT GUTTER LINE ADD 6" FOR TOP OF CURB ELEVATION)
979.55 FL	CHANNEL FLOW LINE ELEVATION
979.55 HP	PROPOSED SPOT ELEVATION HIGH POINT @ BREAKLINE
979.55 TC	PROPOSED SPOT ELEVATION TOP OF CURB/CONCRETE
979.55 GL	PROPOSED SPOT ELEVATION GUTTER LINE
979.55 CW	PROPOSED SPOT ELEVATION CONCRETE WALK
ME MATCH EXIST	EXISTING FIELD VERIFIED SPOT ELEVATION (AT GUTTER LINE ADD 6" FOR CURB ELEVATION)
979.55 FL	PROPOSED SPOT ELEVATION FLUSH AT GUTTER LINE
979.55 FF	PROPOSED FINISH FLOOR ELEVATION
979.55 CC	PROPOSED CURB CUT ELEVATION
979.55 TW	PROPOSED SPOT ELEVATION TOP OF WALL
979.55 BW	PROPOSED SPOT ELEVATION BOTTOM WALL AT GRADE
DI	DROP INLET SQUARE /RECTANGULAR OR ROUND DI/SD4.0
DS / EDS	NEW OR EXISTING DOWNSPOUTS ARE SHOWN FOR REFERENCE ONLY REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION PROVIDE BOOTS PER(DS/SD4.0)
ID 1299CGPL	ADS INLINE DRAIN W/ LOCKING GRATE 1299CGPL NYLOPLAST OR EQ. ID/SD4.0
CO	4" DIA BRASS STORM SEWER CLEAN OUT CO/SD4.0
CD	CANOPY DRAIN CD/SD4.0
→	4" PERFORATED SMOOTH INTERIOR PIPE W/ FILTER FABRIC SUBSURFACE DRAINAGE PUD/SD4.0
ST	STORM SEWER ST/SD4.0
═ ═ ═	EXISTING STORM SEWER
FD	4" DIA FOUNDATION DRAIN SMOOTH INTERIOR FD/SD4.0
UD	SUBSURFACE UNDER DRAIN W/FILTER FABRIC UD/SD4.1 REFER TO PLAN FOR SIZE
1.0 %	GRADE/SLOPE
	RUNOFF FLOW ARROW
	HANDICAPPED RAMP MAX SLOPE 8.33%
F.V.	FIELD VERIFY EXISTING CONDITIONS AND ADJUST ACCORDINGLY

GRADING AND DRAINAGE NOTES:

1. ALL EARTHWORK FOR THIS PROJECT SHALL BE UNCLASSIFIED EXCAVATION TO PLAN BOTTOM DEPTH. PLAN BOTTOM DEPTH IS DEFINED AS THE LOWEST ELEVATION OF EXCAVATION. THIS INCLUDES BOTTOM OF EXCAVATION FOR FOUNDATIONS, UTILITIES, ROADS, PARKING, SIDEWALKS, REQUIRED UNSUITABLE SOILS UNDERCUTTING , EXISTING FILL REMOVAL AND/OR ROCK REMOVAL AS INDICATED OR NOTED ON DRAWINGS OR GEOTECHNICAL REPORT.

2. AREAS THAT WILL SUPPORT FOUNDATIONS, FLOORS, PAVEMENTS, SHALL BE PROPERLY PREPARED AS SPECIFIED IN ACCORDANCE WITH GEOTECHNICAL EXPLORATION REPORT PREPARED BY ECS SOUTHEAST, LLP DATED AUGUST 29 2019 AND SHALL BE APPROVED BY ON-SITE THE GEOTECHNICAL ENGINEER/TESTING AGENCY.

3. PRIOR TO CONSTRUCTION OR THE PLACEMENT OF NEW ENGINEERED FILL, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE EVALUATION SHALL INCLUDE PROOFROLLING OF THE EXPOSED SUBGRADE. IF UNSUITABLE MATERIALS AREA DISCOVERED, AN APPROPRIATE REMEDIAL MEASURE WOULD BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER AT THAT TIME.

4. CARE MUST BE EXERCISED DURING GRADING AND FILL PLACEMENT OPERATIONS. THE COMBINATION OF CONSTRUCTION EQUIPMENT TRAFFIC AND EXCESS SURFACE MOISTURE CAN CAUSE PUMPING AND DETERIORATION OF THE NEAR SURFACE SOILS. THE SEVERITY OF THIS POTENTIAL PROBLEM DEPENDS TO A GREAT EXTENT ON THE WEATHER CONDITIONS PREVAILING DURING CONSTRUCTION. THE CONTRACTOR MUST EXERCISE DISCRETION WHEN SELECTING EQUIPMENT SIZES AND ALSO MAKE A CONCERTED EFFORT TO CONTROL SURFACE WATER WHILE THE SUBGRADE SOILS ARE EXPOSED. IF SUCH PROBLEMS DO ARISE, THE GEOTECHNICAL ENGINEER SHOULD BE CONTACTED TO EVALUATE THE CONDITION.

5. ENGINEERED FILL PLACEMENT AND COMPACTION OPERATIONS SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FIELD DENSITY TESTS MUST BE PERFORMED ON EACH LIFT AS NECESSARY TO CHECK THAT THE SPECIFIED COMPACTION IS BEING ACHIEVED

6. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL OTHER UTILITIES PRIOR TO CONSTRUCTION, AND SHALL CLOSELY MONITOR UTILITY INSTALLATION BY OTHERS. IT IS RECOMMENDED TO INSTALL GRAVITY STORM AND SANITARY LINES PRIOR TO ELECTRICAL, COMMUNICATION AND WATER LINES. BURY DEPTH CONFLICTS DUE TO NON COORDINATION WILL NOT SUBJECT TO CHANGE REQUEST.

7. EXCAVATION, ROCK REMOVAL, TOPSOIL STOCKPILES, DETENTION POND BERMS, UTILITY TRENCHES, AND OTHER ASPECTS OF CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE OSHA REGULATIONS 1926.650-652.

8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT CIVIL ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.

9. THE PRINCIPLES OF POSITIVE DRAINAGE SHALL BE APPLIED UNIVERSALLY ACROSS THE SITE. WATER SHALL BE MOVED AWAY FROM THE BUILDINGS. WATER SHOULD NOT BE ALLOWED TO POND AT LOW POINTS OR IN LOW AREAS. FINISH SUBGRADE TO REQUIRED ELEVATION WITHIN THE FOLLOWING TOLERANCES:

LAWN OR UNPAVED AREAS: PLUS OR MINUS 0.1FT.
SIDEWALKS: PLUS OR MINUS 0.1FT.
PAVEMENT: PLUS OR MINUS 0.05FT.
GRADING INSIDE BUILDING LINE TO A TOLERANCE OF 0.05 FT WHEN TESTED WITH A 10 FOOT STRAIGHTEDGE

10. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEANUP TO REMOVE ALL TRASH, DEBRIS, EXCESS MATERIALS, EQUIPMENT, AND OTHER DELETERIOUS MATERIALS ASSOCIATED WITH CONSTRUCTION. THE SITE CONTRACTOR IS EXPRESSLY RESPONSIBLE FOR ENSURING THE SITE IS CLEAN AND IN OPERABLE CONDITION AT THE TIME OF FINAL ACCEPTANCE.

11. PROPOSED ROAD AND PARKING AREAS ARE NOT DESIGNED TO ACCOMMODATE HIGH LOADS CREATED BY CONSTRUCTION VEHICLES. CONTRACTOR SHALL MAINTAIN, STABILIZE AND REPAIR SUBGRADE/STONE BASE AND EXISTING ASPHALT PAVEMENT DAMAGED BY CONSTRUCTION TRAFFIC AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE PROVIDE AND MAINTAIN TEMPORARY CONSTRUCTION ROAD IN ACCORDANCE WITH CONTRACTOR CONSTRUCTION METHOD AND SCHEDULE.

12. IF EXISTING FOUNDATION DRAINS EXIST AT EXISTING FOUNDATIONS. RECONNECT AND EXTEND EXISTING FOUNDATION DRAIN AS REQUIRED TO PROVIDE SUBSURFACE DRAINAGE.

13. ALL VALVE, METERS AND MANHOLE COVERS AT AREAS OF NEW WALK SHALL BE ADJUSTED TO MATCH THE PROPOSED GRADES AT AREAS OF NEW WORK. (TYP)

ACCESSIBILITY INFORMATION:

1. THE ELEVATION OF ALL EXTERIOR WALKS AND SLABS SHALL BE FLUSH WITH FINISH FLOOR ELEVATION AT ALL DOORS, AND SHALL SLOPE NO MORE THAN 2% WITHIN 5' OF THOSE DOORS. ELSEWHERE EXTERIOR WALKS AND SLABS SHALL CONFORM TO THE SPOT ELEVATIONS AND CONTOURS INDICATED AND IN NO CASE SHALL EXCEED 5% SLOPE EXCEPT AT CURBS RAMPS WHICH SHALL SLOPE 8.33% (MAX.). CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 2.0%.

2. GRATING LOCATED WITHIN ROUTE SHALL BE POSITIONED PERPENDICULAR TO DIRECTION OF THE TRAVEL. SLOT WIDTH SHALL NO EXCEED 1/2" UNLESS OTHERWISE NOTED.

3. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACES SLOPES NOT EXCEEDING 2.0% (1:50)

4. TRANSITIONS FROM RAMPS TO WALKS, SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.

5. RAMPS TO BUILDING: WHERE INDICATED

a. MINIMUM WIDTH 48" SEE PLAN FOR ACTUAL DIMENSION.
b. SLOPE TO BE 1:12 MAXIMUM TO 1:20.
c. CROSS SLOPE 2% MAXIMUM.
d. FLARED SIDES: MAXIMUM SLOPE 1:10.

SITE UTILITIES NOTES: REFER TO M & E DRAWINGS FOR DEMOLITION AND INSTALLATION OF NEW UTILITIES. SANITARY AND WATER LINES ARE SHOWN FOR COORDINATION ONLY.

1. CONTRACTOR SHALL CALL KENTUCKY 811 AT LEAST 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION, TO LOCATE AND MARK EXISTING UTILITIES.

2. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFE GUARD UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE SITE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. IF SERVICE IS INTERRUPTED CONTRACTOR IS RESPONSIBLE FOR RESTORING SERVICE BY REPAIRING THE DAMAGED UTILITY AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

5. ALL SANITARY AND STORM SEWERS SHOWN ARE EXISTING. LOCATIONS OF EXISTING SEWERS ARE APPROXIMATE AND ARE NOT KNOWN. CONTRACTOR SHALL PROBE TEST 8' PRIOR TO DRILLING OR TRENCHING.

FIELD QUALITY CONTROL:
OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM THE SPECIAL INSPECTION AND QUALITY ASSURANCE TESTING AS REQUIRED IN ACCORDANCE WITH THE LATEST EDITION OF KENTUCKY BUILDING CODE CHAPTER 17 AND EARTHWORK SPECIFICATION. CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL SCHEDULING, PLANNING AND INSPECTION TO ENSURE PROPER TESTING BY OWNER'S TESTING AGENCY IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS AND EARTHWORK SPECIFICATION.

IMPORT SOILS
CONTRACTOR SHALL ANTICIPATE SHORTAGE OF SUITABLE SOIL FILL TO CONSTRUCT BUILDING PAD AND PAVEMENT. CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS TO IMPORT SOIL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATION AS REQUIRED TO ACHIEVE PROPOSED ELEVATION. PRIOR TO BRINGING SOIL MATERIALS ON SITE, ANY OFF-SITE SOILS SHALL BE TESTED AND APPROVED BY THE OWNER TESTING AGENCY.
IMPORT SOIL FILL SHALL BE UNIFORM AND CONSISTENT.

SCALE: 1" = 20'-0" SCALE IN FEET
0 10 20 80

SHERMAN CARTER BARNHART ARCHITECTS

STATE OF KENTUCKY ★ MICHAEL G. BASHIKHES 19610 LICENSED ★ PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SITE GRADING AND DRAINAGE PLAN

JOB NO.	1933
DATE	11/14/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

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EROSION CONTROL LEGEND

SYMBOLS	DESCRIPTION
CE	TEMPORARY STONE CONSTRUCTION ENTRANCE CE/SD4.1
—— SF ——	SILT FENCE SF/SD4.1
—— SL ——	SEDIMENT LOG SL/SD4.1
ECB	EROSION CONTROL BLANKETS SHORT-TERM DEGRADABLE BLANKET NORTH AMERICAN GREEN SC150BN OR EQ.
SLOPE STEEPER THAN 4:1 SLOPE STEEPER THAN 3:1	VELOCITY 8FPS & SHEAR STRESS 2.0 #/SQFT. VELOCITY 10FPS & SHEAR STRESS 2.5 #/SQFT.
	REFER TO MANUFACTURE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS
← PS →	PERMANENT SEEDING REFER TO LANDSCAPING SPECIFICATION FOR DETAILS
← MU →	MULCHING
← TS →	TEMPORARY SEEDING
← T →	TOPSOILING
SOD	SOD ON MIN 6" TOPSOIL
—— SR ——	STRAW ROLL SR/SD4.1
FIP	FILTER FABRIC INLET PROTECTION FIP/SD4.1
DC	DUST CONTROL USE OF WATER SPRAY FOR DUST CONTROL DURING EARTH WORK AND DEMOLITION. DUST CONTROL WATER RUNOFF SHALL BE CONTAINED AND MANAGED PROPERLY TO PREVENT THE TRANSPORT OF CONTAMINANTS FROM SITE

EROSION SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF THE APPROPRIATE PERSONNEL NEEDED TO CREATE AND MAINTAIN SWPPP, A BEST MANAGEMENT PRACTICES (BMP.) PLAN IN ACCORDANCE WITH, KPDES STORMWATER GENERAL PERMIT KYR10, AND "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE" .

2. THE EROSION CONTROL MEASURES NOTED AND SHOWN ARE MINIMUMS AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA AND / OR KENTUCKY DIVISION OF WATER REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO PROVIDE EROSION SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH CONTRACTOR CONSTRUCTION METHODS AND SCHEDULE. ANY ADDITIONAL ITEMS THAT ARE REQUIRED BY THE GOVERNING AUTHORITIES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER WHETHER THEY APPEAR ON THIS PLAN OR NOT.

3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS ,AND NOTIFYING THE KENTUCKY DIVISION OF WATER IN WRITING OF INTENT TO DISTURB. THE CONTRACTOR SHALL OBTAIN, SIGN AND SUBMIT THE NOTICE OF INTENT (NOI) TO THE KENTUCKY DIVISION OF WATER. A COPY OF THE SUBMITTAL AND PERMIT SHALL BE SENT TO THE OWNER AND THE ARCHITECT.

4. ALL SILT FENCE SHALL BE INSTALLED PRIOR TO MOBILIZATION. SILT FENCES TO BE CLEANED OUT WHEN THEY BECOME ONE THIRD FULL OR AFTER EVERY RAIN IN EXCESS OF ONE HALF INCH.

5. THE CONTRACTOR SHALL HAVE QUALIFIED PERSONNEL INSPECT AND ENSURE THAT ROUTINE MAINTENANCE AND NONROUTINE REPAIR IS PERFORMED TO KEEP THE BMP IN GOOD WORKING ORDER. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. IF SITE INSPECTIONS IDENTIFY BMPS THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.

6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. BARE SOIL AREAS MUST BE SEEDED, MULCHED OR COVERED AFTER 14 DAYS WHEN FINAL OR TEMPORARY GRADE IS ESTABLISHED IF NO WORK IS PLANNED IN THAT AREA DURING THE FOLLOWING 7 DAYS (I.E. 21 CONSECUTIVE DAYS) BUT IN NO CASE MORE THAN (21) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
WHERE STABILIZATION BY THE 21ST DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE. TEMPORARY SEEDING SHALL BE PROVIDED IN ACCORDANCE WITH "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE"

7. TOPSOIL STOCKPILES AND BORROW SITES SHALL BE SURROUNDED BY SILT FENCES AND RESEEDED.

8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REMOVING DIRT AND CONSTRUCTION DEBRIS CAUSED BY CONSTRUCTION ACTIVITIES FROM THE ADJACENT ROADWAYS FOR THE DURATION OF THE PROJECT.

9. ALL POTENTIAL EROSION SHALL BE CONTROL IN SUCH MANNER SO AS TO PREVENT ANY DISPLACEMENT OF SILT TO THE ADJACENT PROPERTY OWNERS OR RIGTH-OF-WAY. THIS CONTROL SHALL BE IMPLEMENTED THROUGH PROPER INSTALLATION OF SILT FENCE DURING CONSTRUCTION AND MAINTAINED UNTIL PROPER GROUND COVER HAS BEEN ESTABLISHED.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT EROSION ONTO ADJACENT PROPERTY. ANY REMEDIAL MEASURES REQUIRED TO CORRECT DAMAGE CREATED BY EROSION SHALL BE AT THE CONTRACTOR'S EXPENSE.

10. THE EROSION CONTROL PLAN IS PREPARED AS GUIDE FOR INITIAL EROSION CONTROL MEASURES TO BE INSTALLED AT THE JOB SITE. IF EROSION OCCURS IN OTHER SPECIFIC AREAS OF THE PROPERTY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING SILT FENCE, OR OTHER EROSION CONTROL MEASURES AS NEEDED TO PREVENT EROSION AND/OR CONTROL SEDIMENTATION.

11. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REMOVAL OF EROSION PREVENTION AND SEDIMENTATION CONTROL STRUCTURES AFTER CONSTRUCTION IS COMPLETE, BUT ONLY AFTER PROPER GROUND COVER HAS BEEN ESTABLISHED.

12. THE EROSION SEDIMENT CONTROL PLAN IS CONSIDERED A "LIVING DOCUMENT". THE SWPPP WILL BE REVISED FOR ANY OF THE FOLLOWING REASONS:

- WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, PROCEDURES, OR MAINTENANCE OF THE FACILITY THAT HAS A SIGNIFICANT EFFECT ON THE POTENTIAL TO CAUSE STORM WATER POLLUTION
- IF IT IS DISCOVERED THAT THE SWPPP FAILS TO PROTECT THE WATERS OF THE U.S. FROM POLLUTION
- IF AN EVALUATION OR INSPECTION RESULTS IN THE NEED FOR REVISION OF THE SWPPP

15. ANY ALTERATIONS OR REVISIONS TO THE BEST MANAGEMENT PRACTICES / EROSION CONTROL (BMP) PLAN BASED ON THE RESULTS OF THE INSPECTION SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE BMP PLAN, AND ANY CORRECTIVE ACTIONS TAKEN SHALL BE MADE AND KEPT AS PART OF THE BMP PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF INSPECTION, OR UNTIL ONE (1) YEAR AFTER COVERAGE UNDER THIS PERMIT ENDS. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART II OF THIS PERMIT.

16. A COPY OF THE APPROVED SWPPP, EROSION AND SEDIMENT CONTROL PLANS AND COPIES OF THE WEEKLY INSPECTION REPORT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES IN THE JOB TRAILER.

17. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK.

18. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

19. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

20. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS NEEDED BUT NOT LESS THAN DAILY.

21. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

22. CONTAMINATED MATERIALS:
ALL PAINT, SOLVENT, PETROLEUM PRODUCTS (FUEL, LUBE OILS, GREASE AND CUTTING OILS) AND PETROLEUM WASTE PRODUCTS SHALL BE STORED IN CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SO THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION CONTROL, AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENTS SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND ALSO PREVENT CONTAMINATION OF GROUNDWATER.

A. CHEMICAL MANAGEMENT:
DO NOT STORE CHEMICALS, DRUMS,AND BAGGED MATERIAL DIRECTLY ON THE GROUND. USE SECONDARY CONTAINMENT OR USE WOODEN PALLETS.
PROVIDE SPILL CONTAINMENT DIKES AROUND CHEMICAL AND FUEL STORAGE TANKS. LINE WITH PLASTIC FILM TO PREVENT SOIL CONTAMINATION.
STORE HAZARDOUS WASTES IN AN APPROPRIATE TYPE PF CONTAINER AND PROPERLY LABELED PER EPA, OSHA AND DOT REQUIREMENTS.

B. SOLID WASTE MANAGEMENT;
ONSITE TRASH SHOULD BE COLLECTED AND DISPOSED OF ON REGULAR BASIS. SANITARY SYSTEMS SHOULD BE REGULARLY SERVICED.
REPAIR TRASH CONTAINERS AND DUMPSTERS ON AS NEEDED BASIS. WHERE POSSIBLE PROVIDE COVER FOR WASTE CONTAINERS TO PREVENT THE ENTRY OF RAINWATER AND LOSS OF CONTENTS BY WIND.
MAINTAIN A CONTINGENCY PLAN IN THE CASE THAT HAZARDOUS OR TOXIC MATERIALS ARE DISCOVERED.

C. EQUIPMENT MAINTENANCE;
MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION.
VEHICLES AND EQUIPMENT SHOULD BE INSPECTED ON EACH DAY OF USE. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE PROBLEM VEHICLE(S) OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.

D. DESIGNATED WASH DOWN AREAS; (BY GENERAL CONTRACTOR)
PERFORM WASHOUT OF CONCRETE IN DESIGNATED AREAS ONLY. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD FREE OF HOLES, TEARS OR OTHER DEFECTS. HARDENED CONCRETE SHOULD BE BROKEN UP, REMOVED AND DISPOSED OF IN ACCORDANCE WITH SOLID WASTE MANAGEMENT.
MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURE AT LEAST WEEKLY.

E. SPILL CONTAINMENT PLAN;
COMPLY WITH SUGGESTIONS AND REQUIREMENTS SET BY LOCAL FIRE DEPARTMENT. VERIFY WEEKLY THAT SPILL CONTROL CLEAN UP MATERIALS ARE LOCATED NEAR MATERIAL STORAGE, UNLOADING AND USE AREAS. RESTOCK APPROPRIATE CLEAN UP MATERIALS AFTER A SPILL INCIDENT HAS OCCURRED.

23. AFTER COMPLETION OF CONSTRUCTION, THE SITE CONTRACTOR SHALL PERFORM SITE CLEANUP TO REMOVE ALL TRASH, DEBRIS, EXCESS MATERIALS, EQUIPMENT, AND OTHER DELETERIOUS MATERIALS ASSOCIATED WITH CONSTRUCTION. THE SITE CONTRACTOR IS EXPRESSLY RESPONSIBLE FOR ENSURING THE SITE IS CLEAN AND IN OPERABLE CONDITION AT THE TIME OF FINAL ACCEPTANCE.

24. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED.

25. ALL SLOPES 4:1 AND STEEPER THAN 4:1 SHALL REQUIRE EROSION CONTROL BLANKET S150-NORTH AMERICAN GREEN OR EQ. REFER TO MANUFACTURE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SHERMAN CARTER BARNHART ARCHITECTS

STATE OF KENTUCKY ★ MICHAEL G. BASHIKHES 19610 LICENSED ★ PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

EROSION AND SEDIMENT CONTROL PLAN

JOB NO.	1933
DATE	11/14/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD2.1

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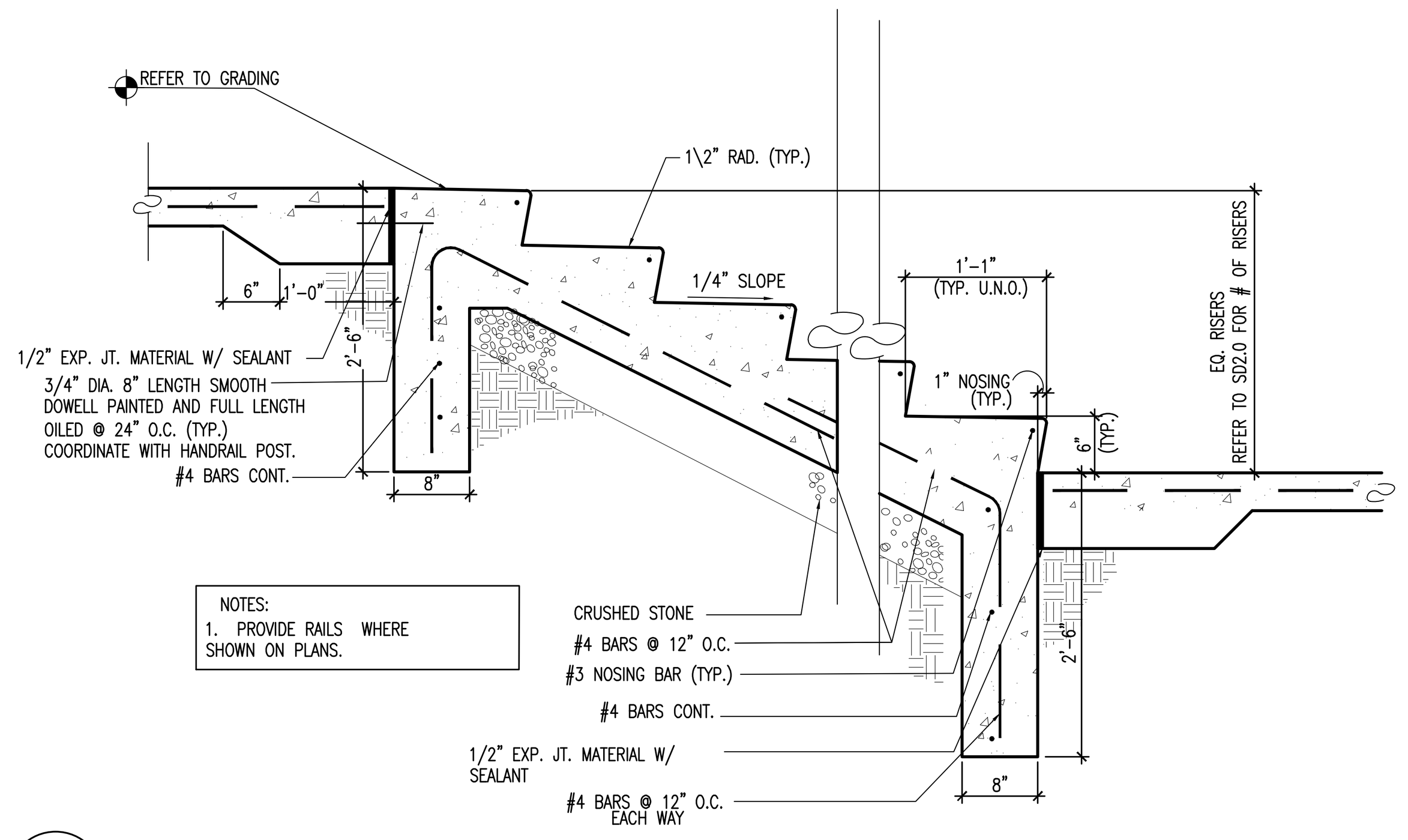
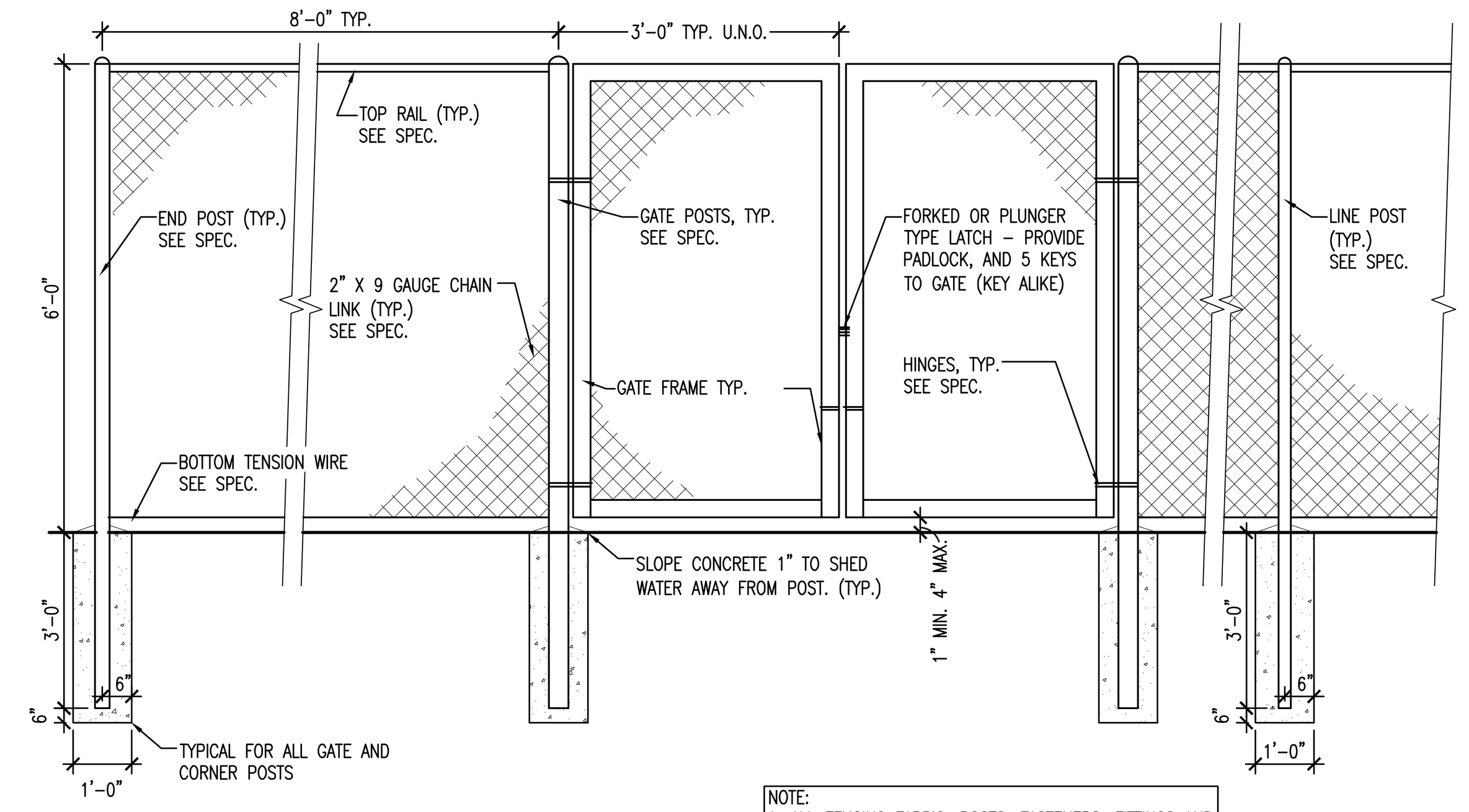


NOTES:
1. PROVIDE RAILS WHERE SHOWN ON PLANS.

CS CONCRETE STAIR
N.T.S.

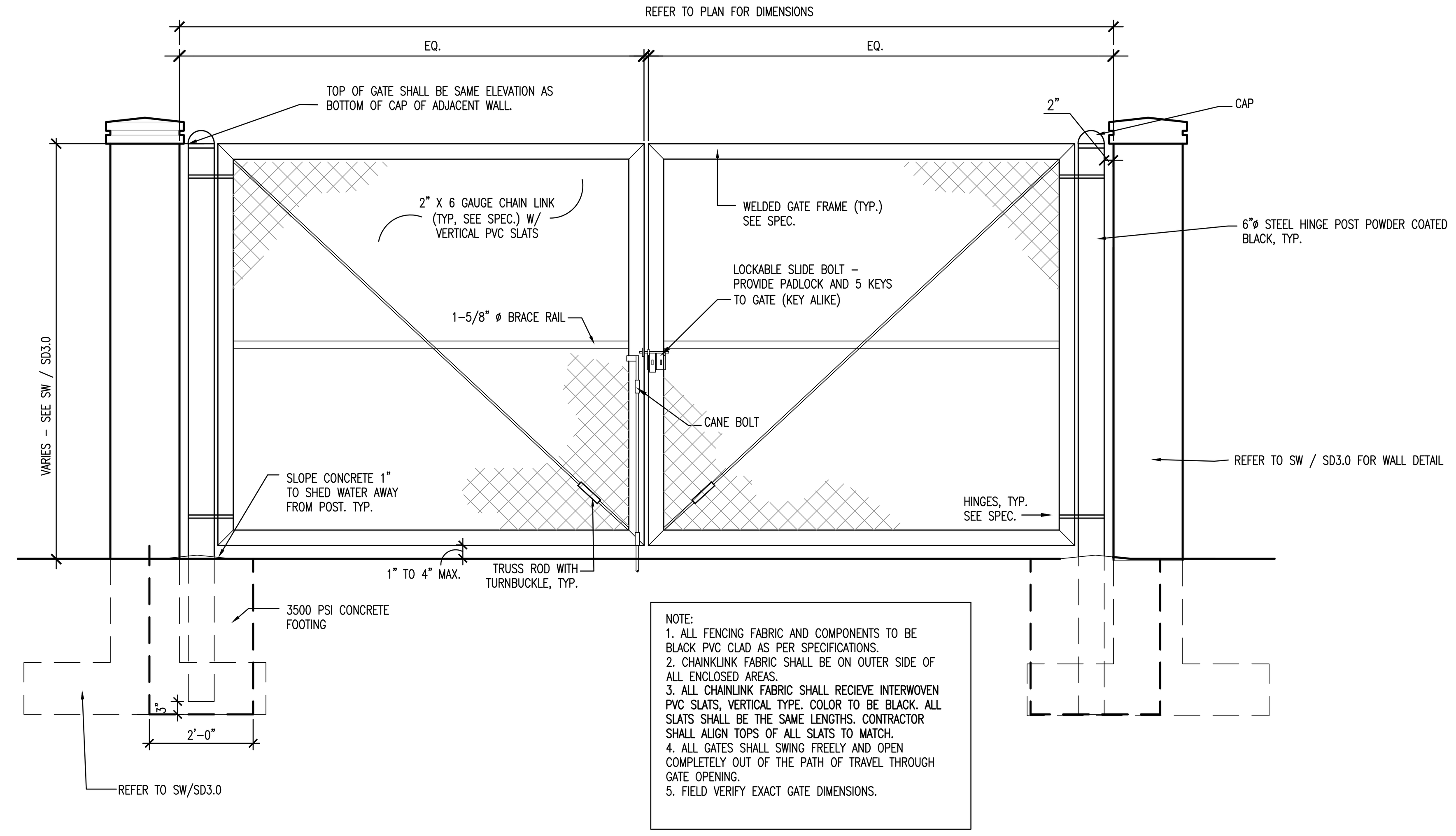
NOTE:
PROVIDE VERTICAL PRIVACY SLATS IN LOCATIONS INDICATED ON DRAWINGS.

NOTE:
REFER TO PLAN FOR SINGLE OR DOUBLE SWING GATE.



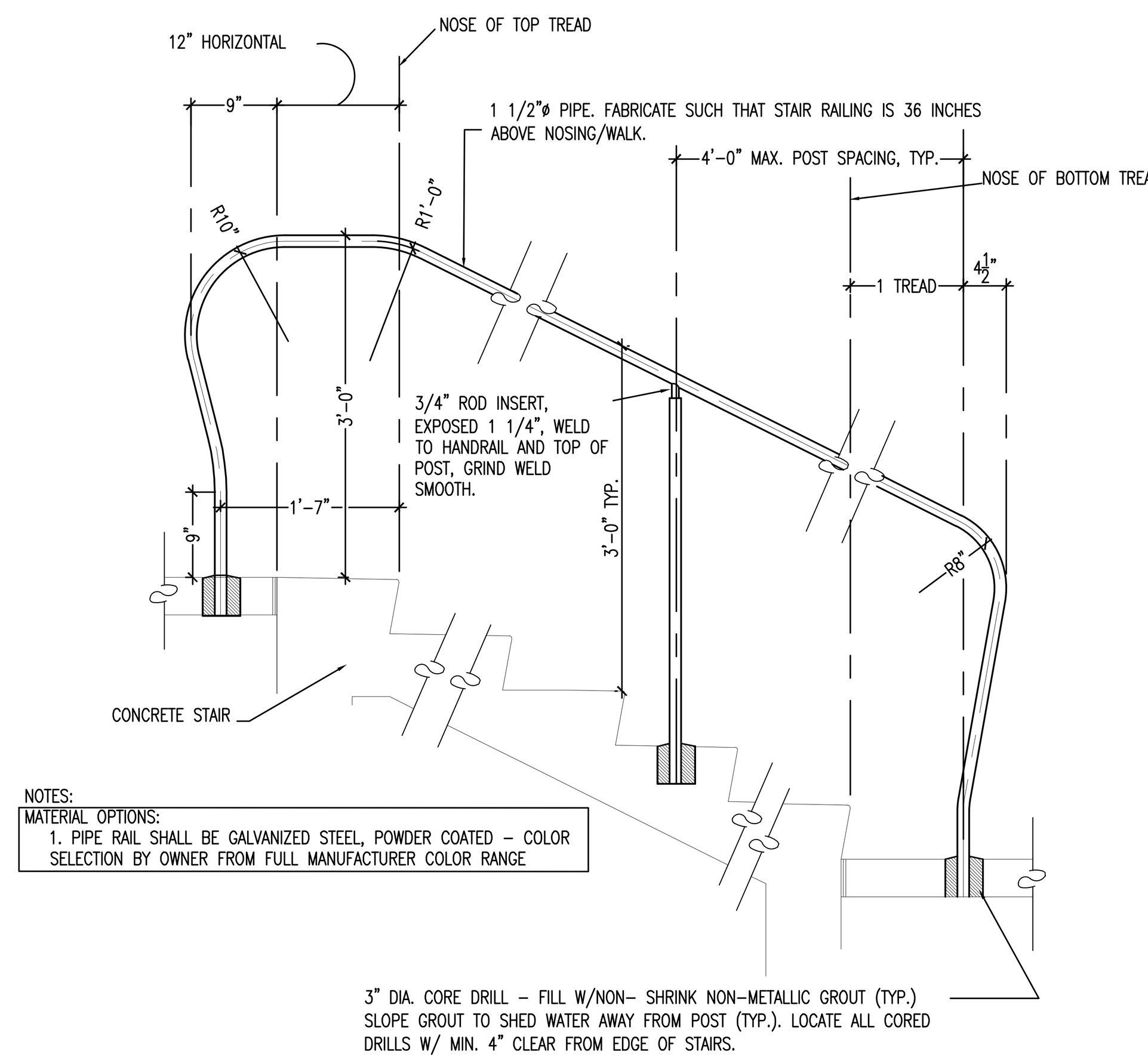
NOTE:
1. ALL FENCING FABRIC, POSTS, FASTENERS, FITTINGS AND COMPONENTS TO BE PVC COATED, COLOR SELECTED BY OWNER U.N.O.
2. SEE SPECIFICATIONS FOR POST SIZING.
3. REINFORCE AND BRACE GATE AS REQUIRED BY CHAINLINK GATE COMPANY TO SPAN REQUIRED OPENING.

CF CHAINLINK FENCE AND GATE DETAIL
N.T.S.



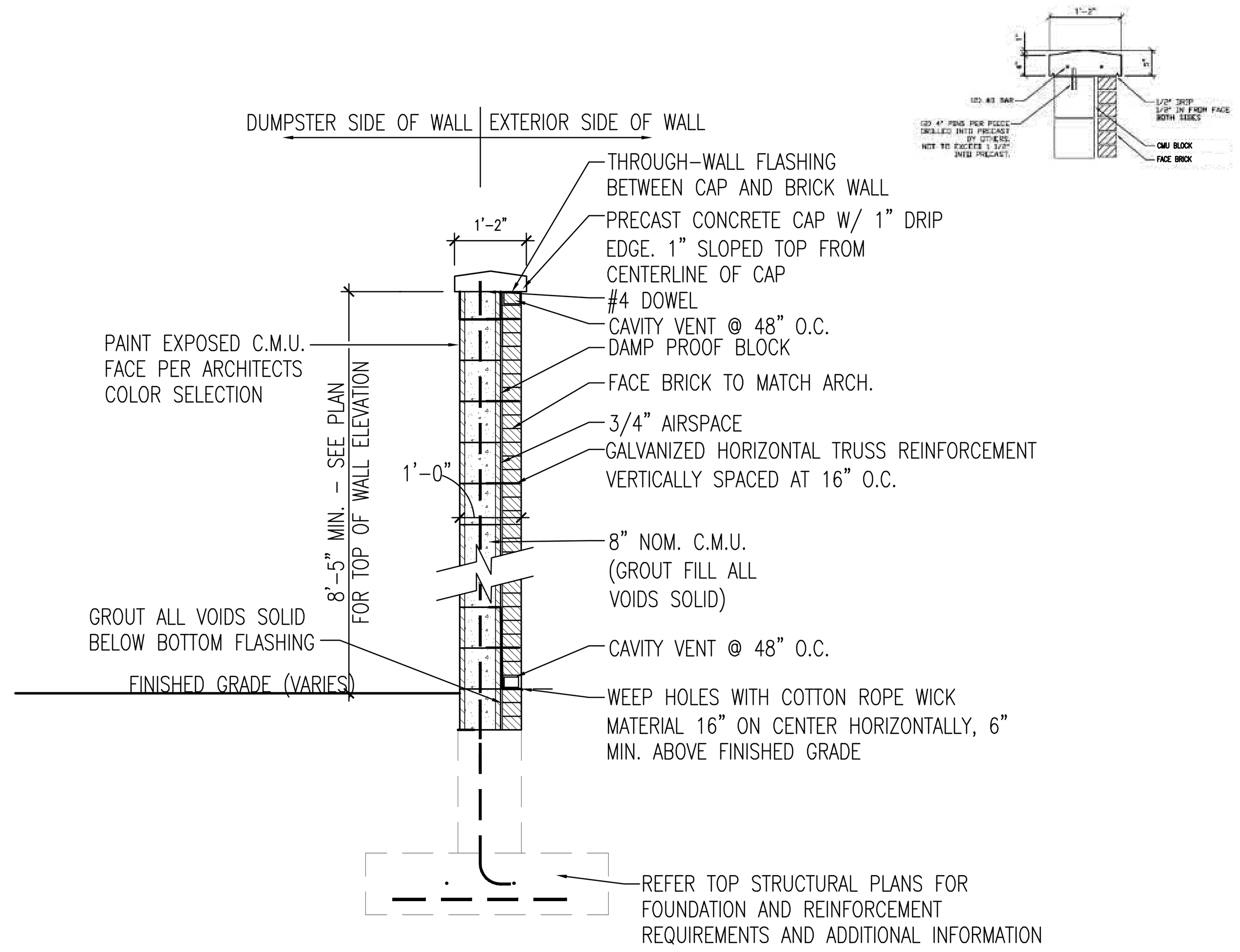
NOTE:
1. ALL FENCING FABRIC AND COMPONENTS TO BE BLACK PVC CLAD AS PER SPECIFICATIONS.
2. CHAINKLINK FABRIC SHALL BE ON OUTER SIDE OF ALL ENCLOSED AREAS.
3. ALL CHAINLINK FABRIC SHALL RECIEVE INTERWOVEN PVC SLATS, VERTICAL TYPE. COLOR TO BE BLACK. ALL SLATS SHALL BE THE SAME LENGTHS. CONTRACTOR SHALL ALIGN TOPS OF ALL SLATS TO MATCH.
4. ALL GATES SHALL SWING FREELY AND OPEN COMPLETELY OUT OF THE PATH OF TRAVEL THROUGH GATE OPENING.
5. FIELD VERIFY EXACT GATE DIMENSIONS.

SG SCREEN GATE
1/2" = 1'-0"



NOTES:
MATERIAL OPTIONS:
1. PIPE RAIL SHALL BE GALVANIZED STEEL, POWDER COATED – COLOR SELECTION BY OWNER FROM FULL MANUFACTURER COLOR RANGE

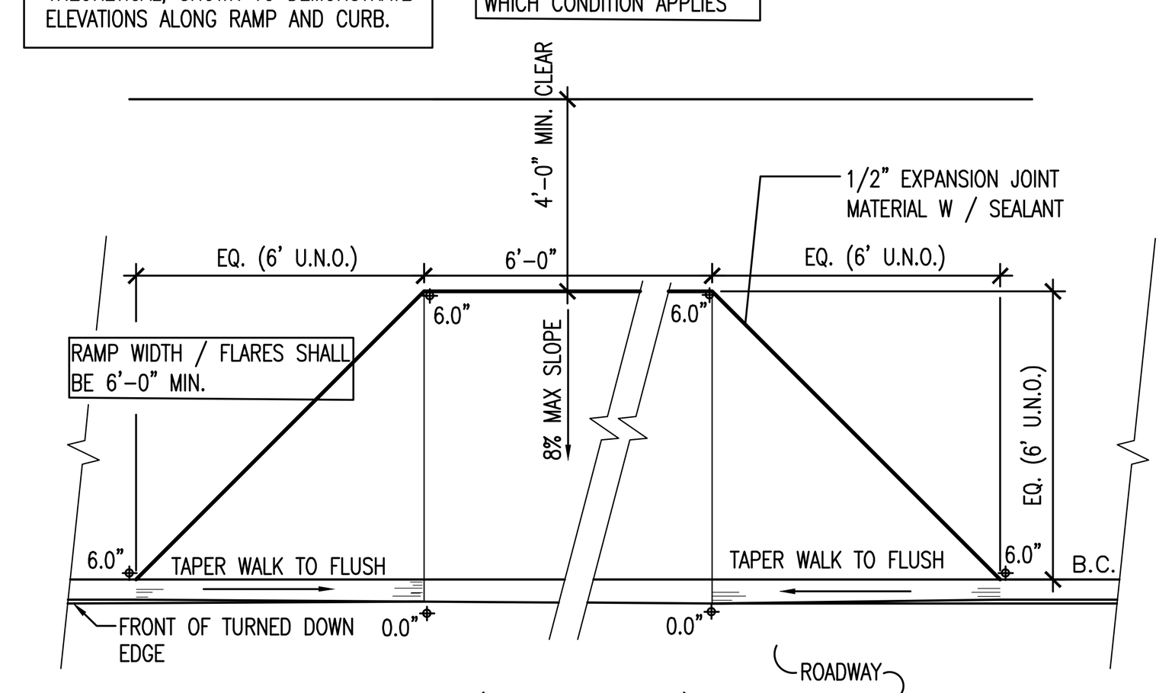
HR HAND RAIL
N.T.S.



SW MASONRY SCREEN WALL
1/2" = 1'-0"

NOTE: SPOT ELEVATIONS ARE THEORETICAL, SHOWN TO DEMONSTRATE ELEVATIONS ALONG RAMP AND CURB.

REFER TO SITE PLAN FOR WHICH CONDITION APPLIES



CR CURB RAMP DETAIL
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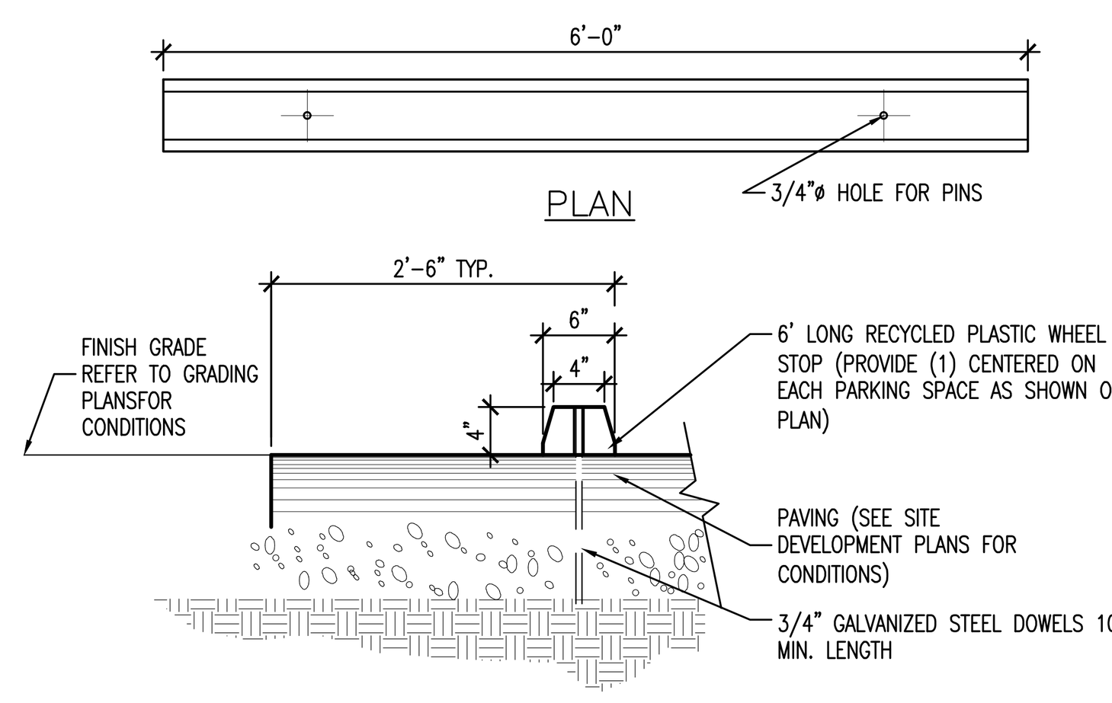
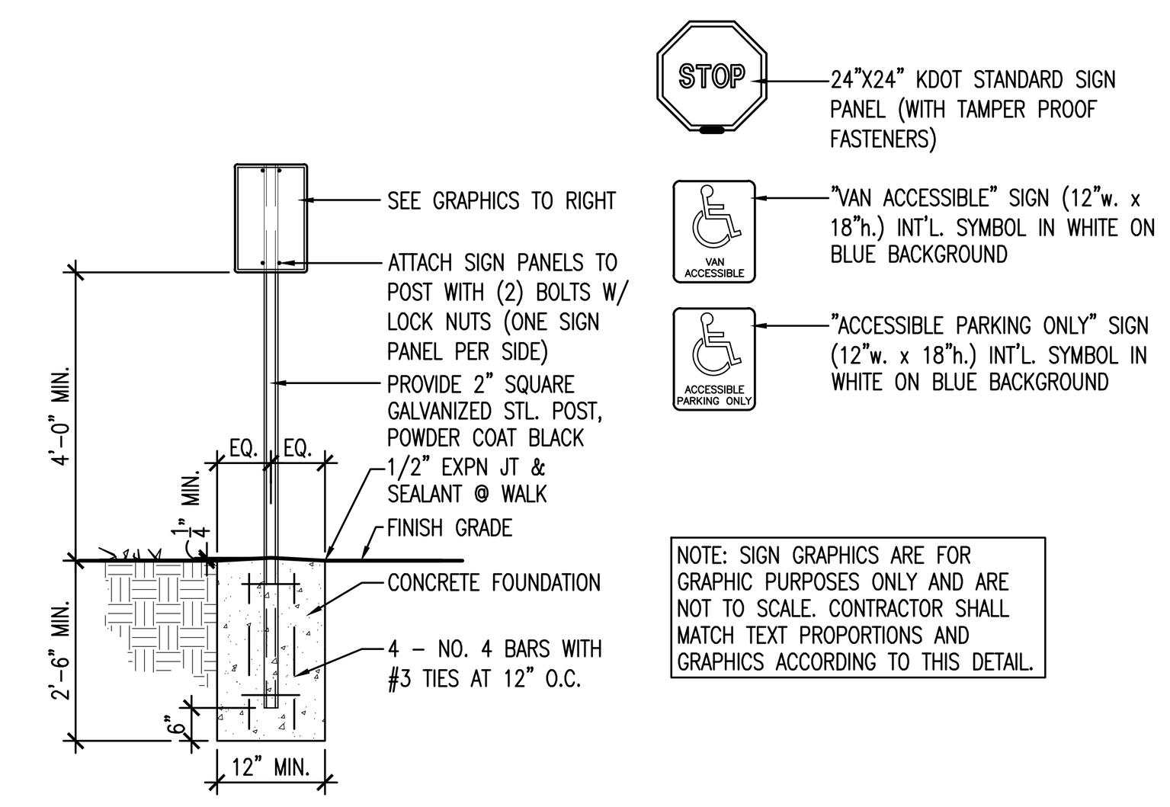
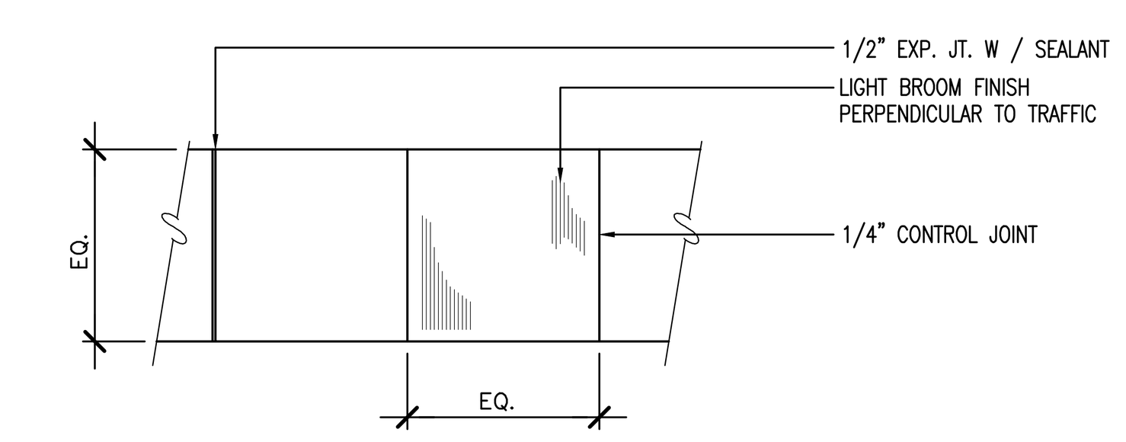


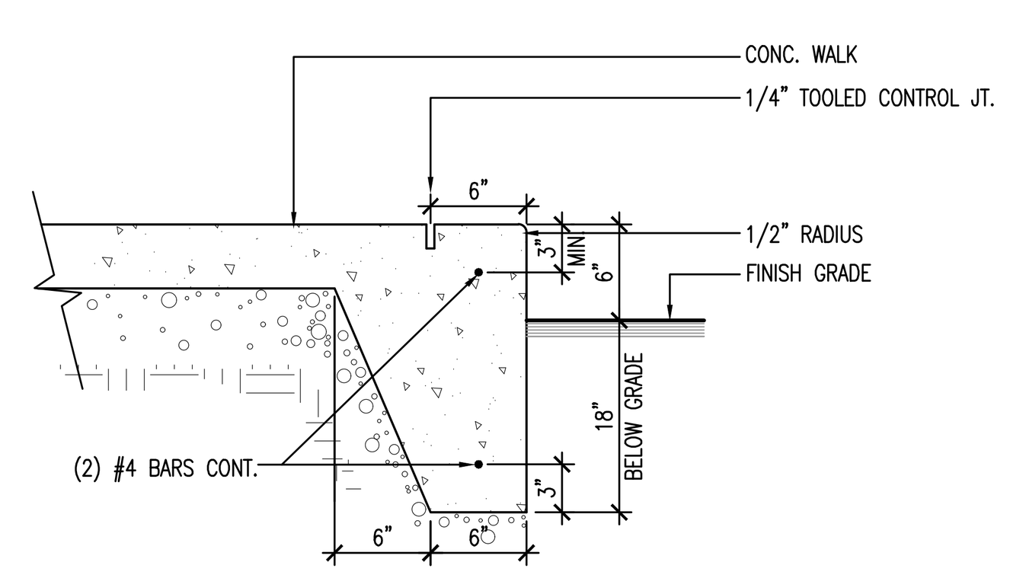
WS WHEELSTOP
N.T.S.



NOTE: SIGN GRAPHICS ARE FOR GRAPHIC PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL MATCH TEXT PROPORTIONS AND GRAPHICS ACCORDING TO THIS DETAIL.

TS TRAFFIC SIGN
N.T.S.





TW CONCRETE WALK W/ TURNED DOWN EDGE
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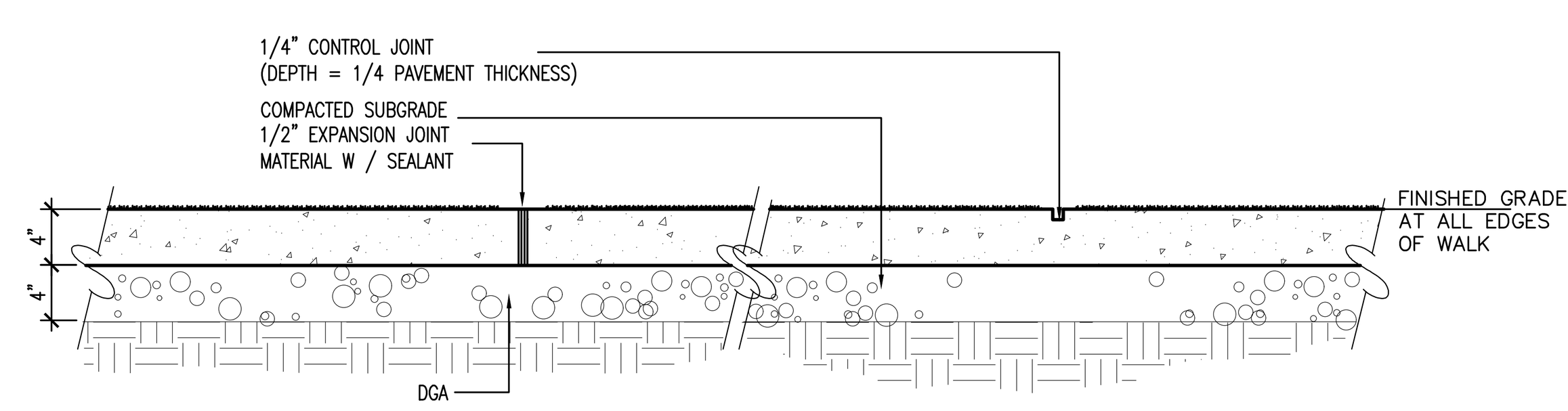

CW CONCRETE WALK
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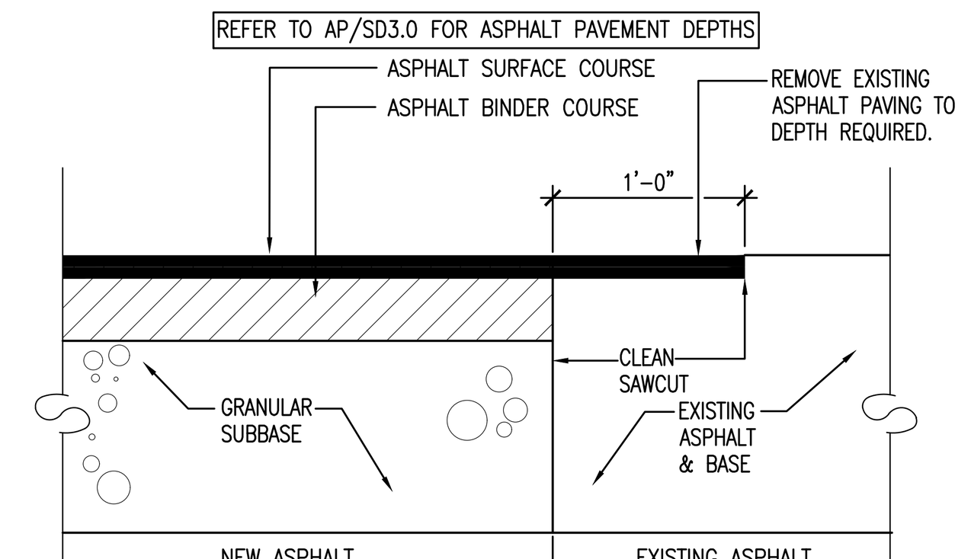

EK EDGE KEY
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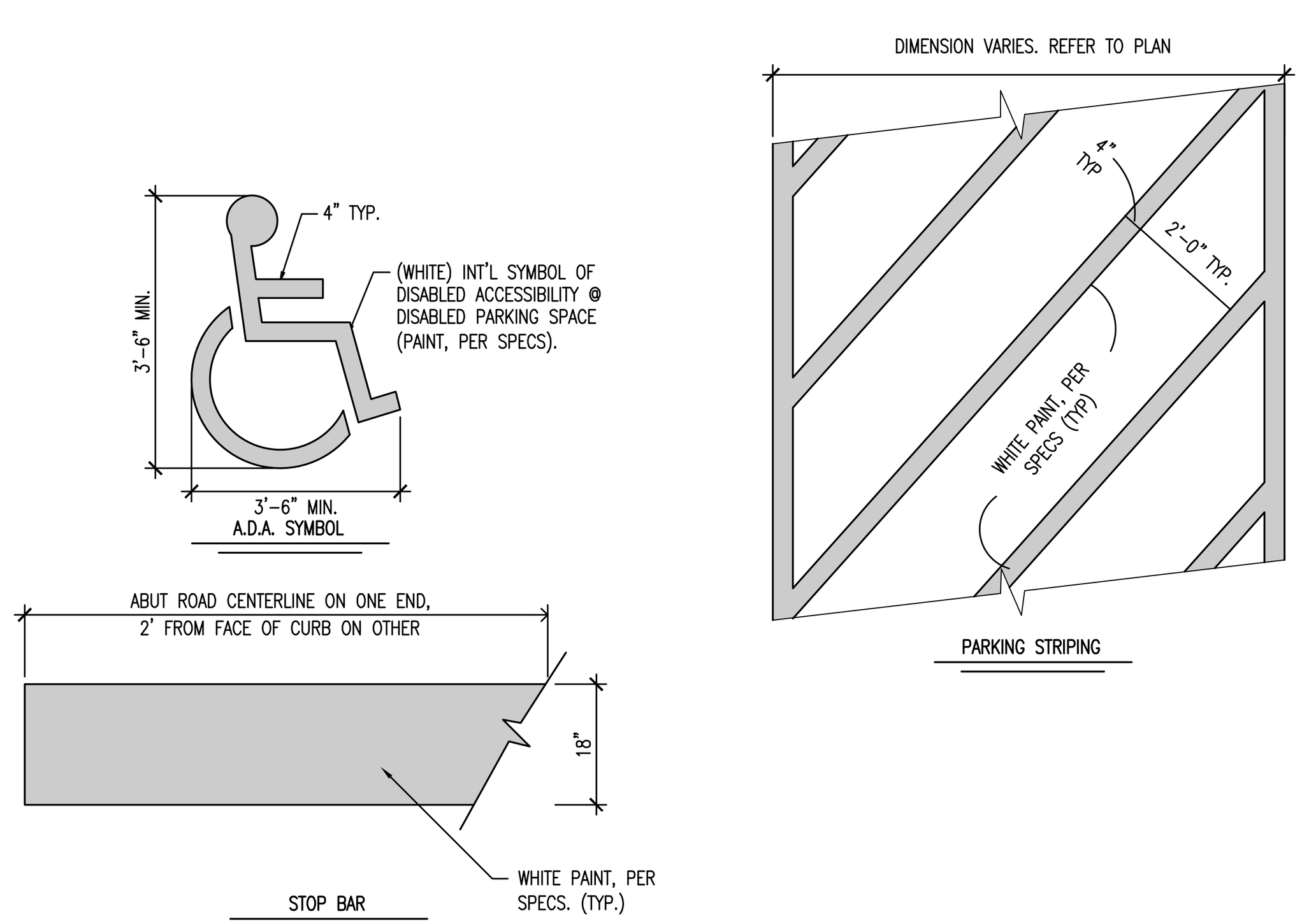
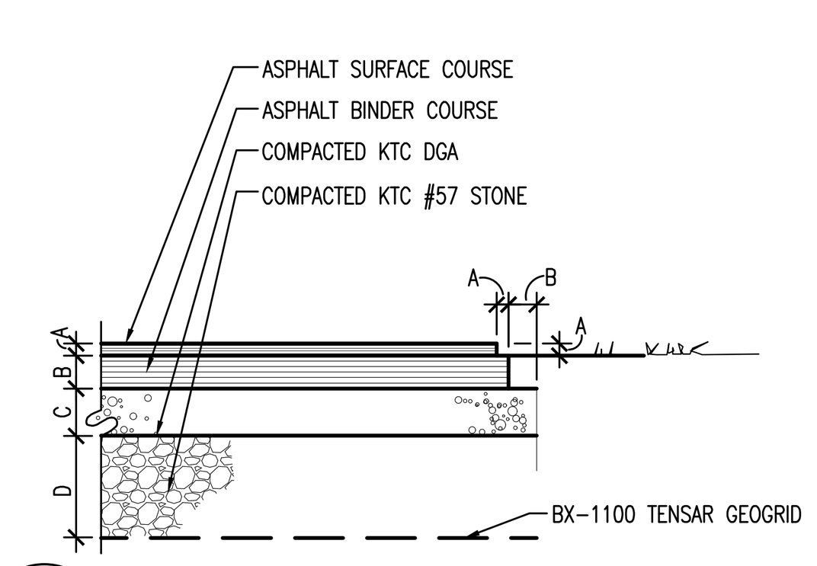


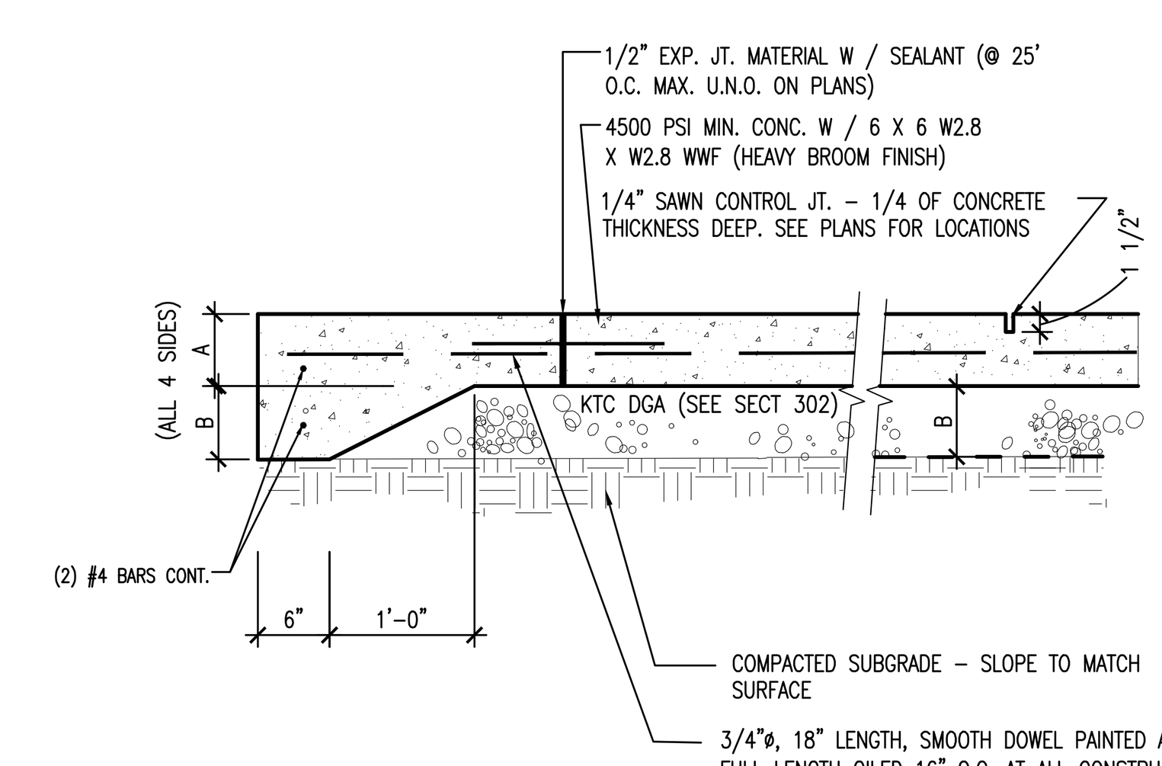
PG PAVEMENT APPLIED GRAPHICS
N.T.S.



A	1 1/4"
B	3 1/2"
C	2"
D	6"

ALL PAVEMENT SHALL MEET OR EXCEED GEOTECHNICAL REPORT MINIMUM RECOMMENDATIONS AS SHOWN ABOVE.

AP ASPHALT PAVEMENT
N.T.S.



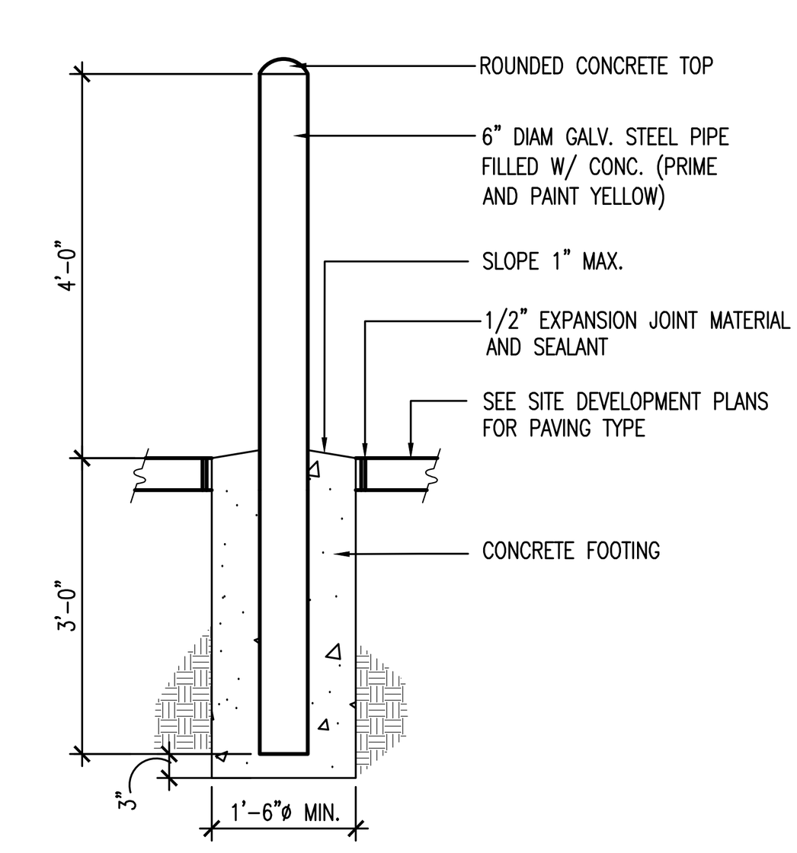
DIM.	
A	7"
B	4"
C	7"

SEAL EXPANSION AND CONTROL JOINTS PER KTC STANDARD DRAWINGS RPX-020-04 AND RPX-010-03 FOR CONCRETE PAVING.

CONTROL JOINT SPACING IS DIRECTLY RELATED TO THICKNESS OF CONCRETE PER ACI 330.

ALL PAVEMENT SHALL MEET OR EXCEED GEOTECHNICAL REPORT MINIMUM RECOMMENDATIONS AS SHOWN ABOVE.

CP CONCRETE PAVEMENT
N.T.S.



PB PIPE BOLLARD
N.T.S.

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Login Name: kpalmer
Sheet Layout: SD3.0

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

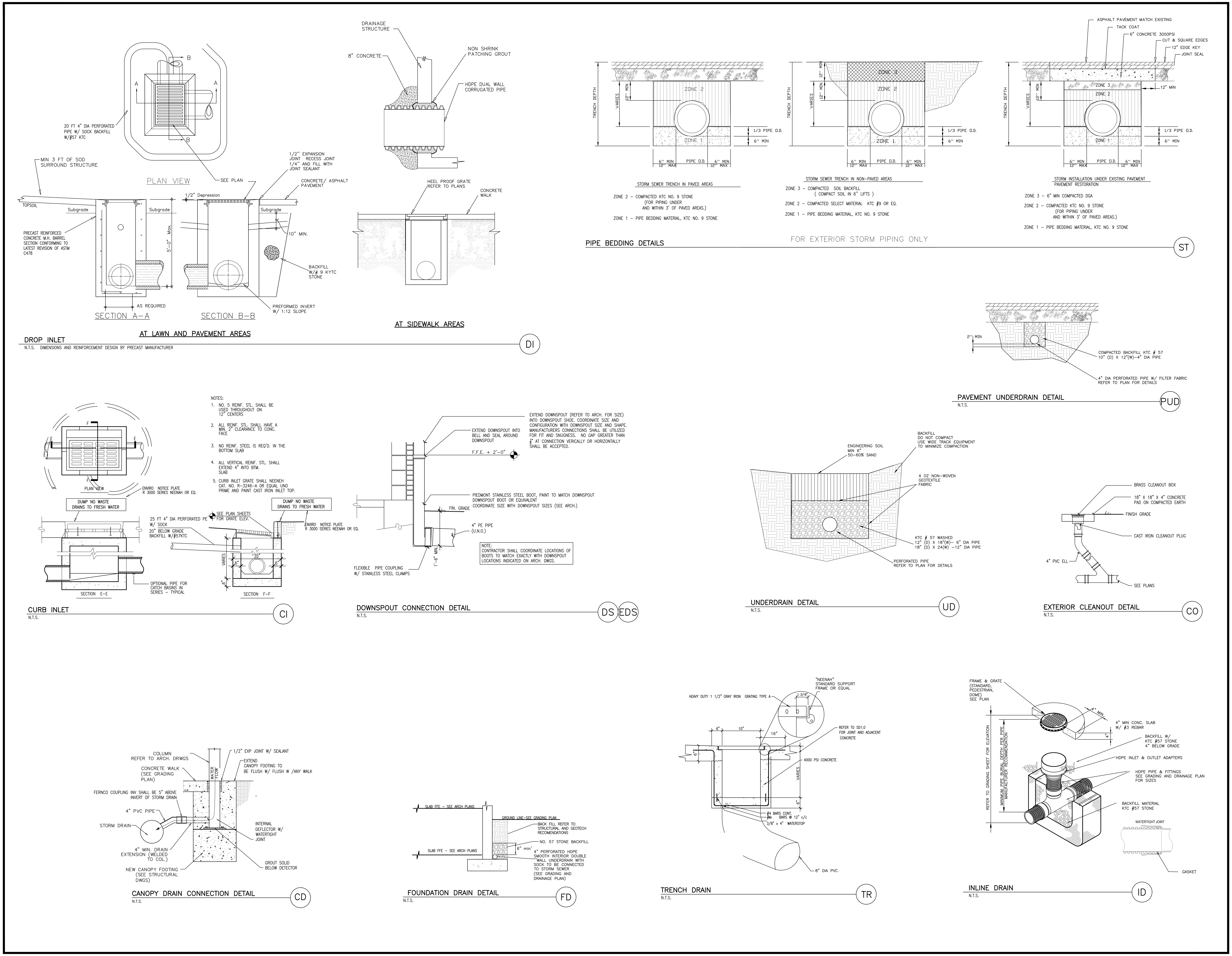
SITE DETAILS

JOB NO.	1933
DATE	11/14/2019
DRAWN	KRP
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET
SD3.0



SHERMAN CARTER BARNHART ARCHITECTS

STATE OF KENTUCKY MICHAEL G. MEDINGER 19610 LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SITE DETAILS

JOB NO.	1933
DATE	12/16/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD4.0

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Day & Time: Dec 12, 2019 - 4:47pm
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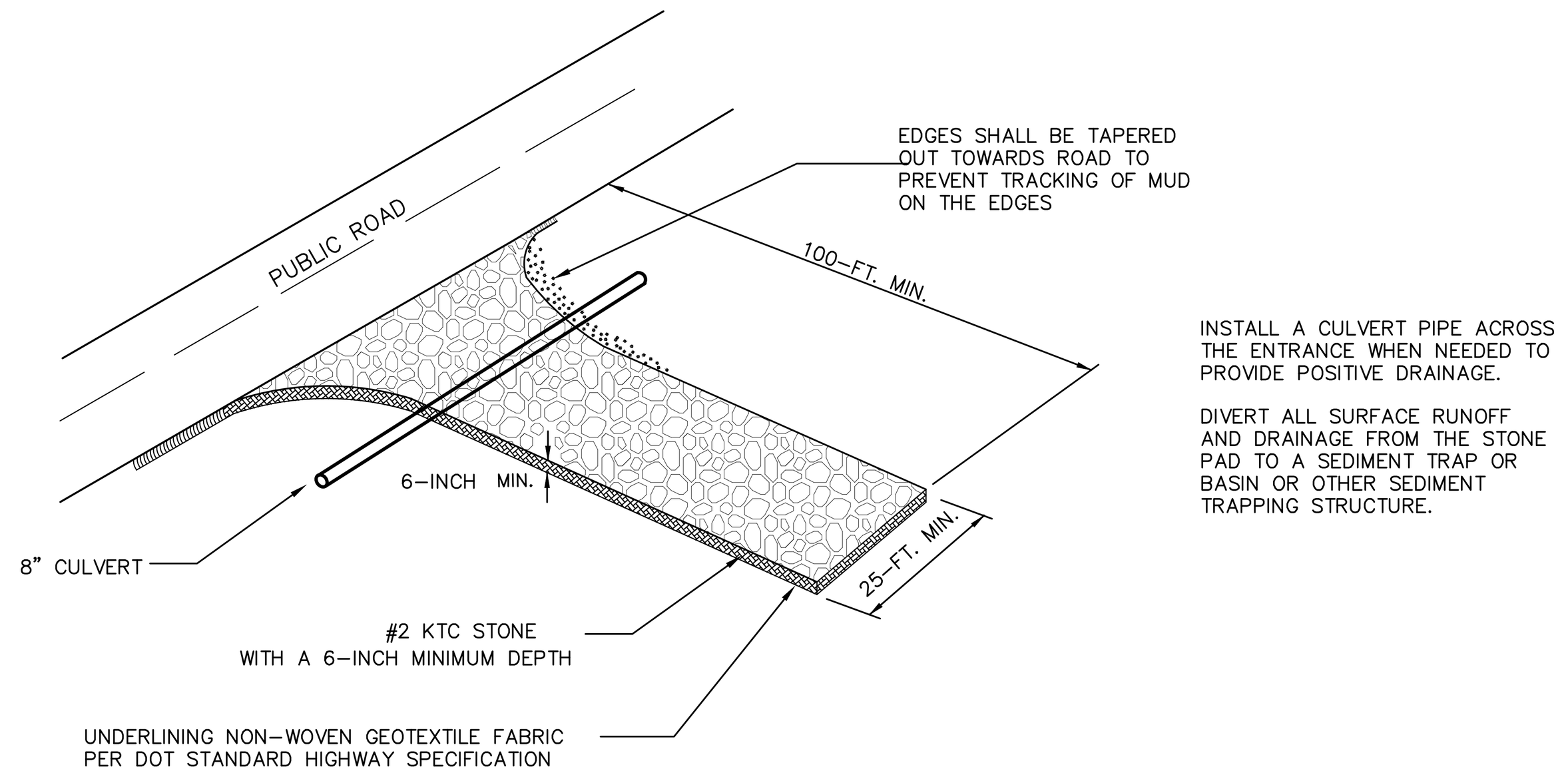


STABILIZED CONSTRUCTION ENTRANCE

WHEN AND WHERE TO USE IT

STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS

IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY INSPECTOR AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

UINSTALLATION:

REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.

DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.

INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

THE ENTRANCE SHALL CONSIST OF #2 KTC STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.

THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:

INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

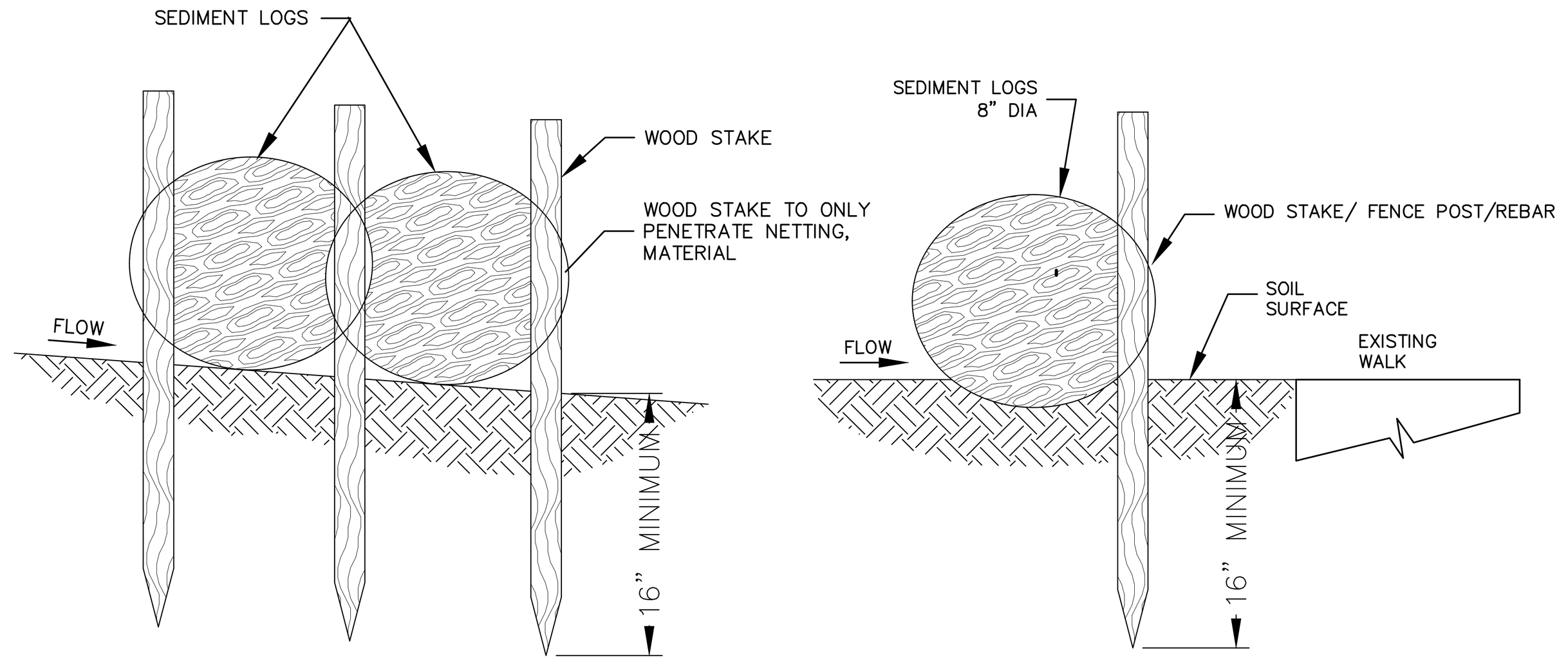
WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

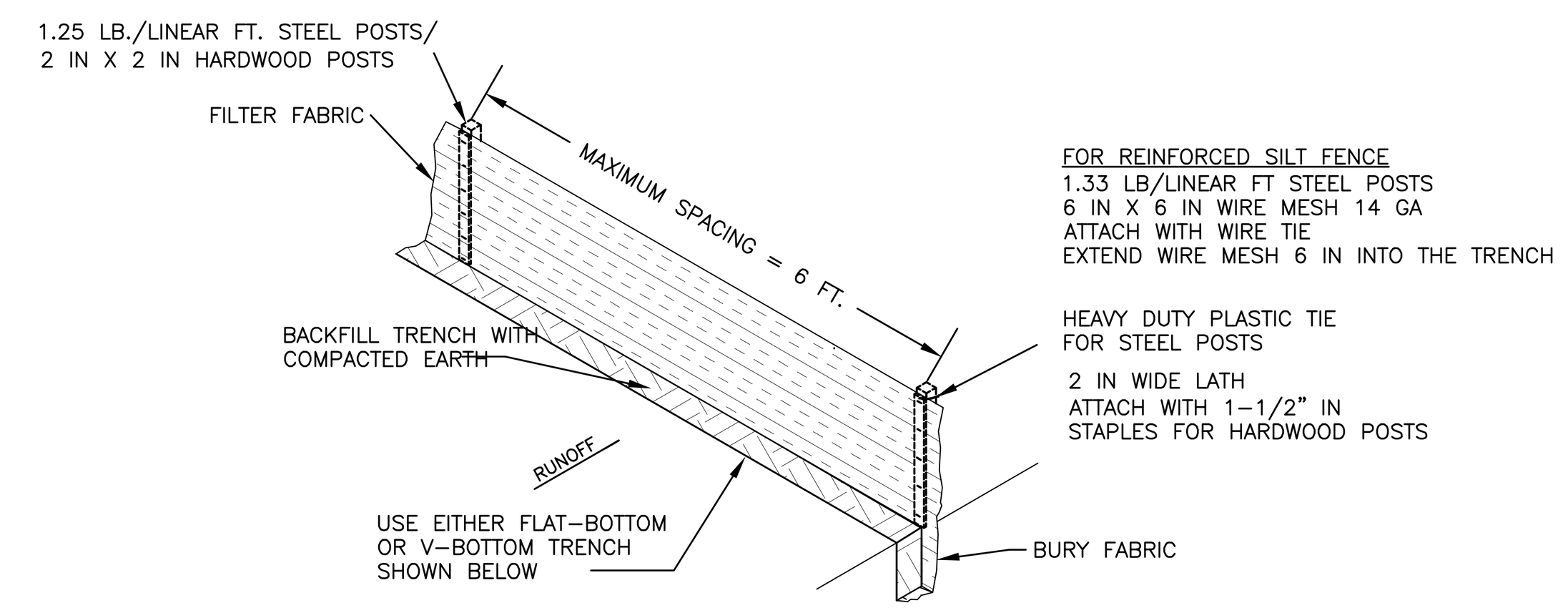
CONSTRUCTION ENTRANCE (CE)

N.T.S.

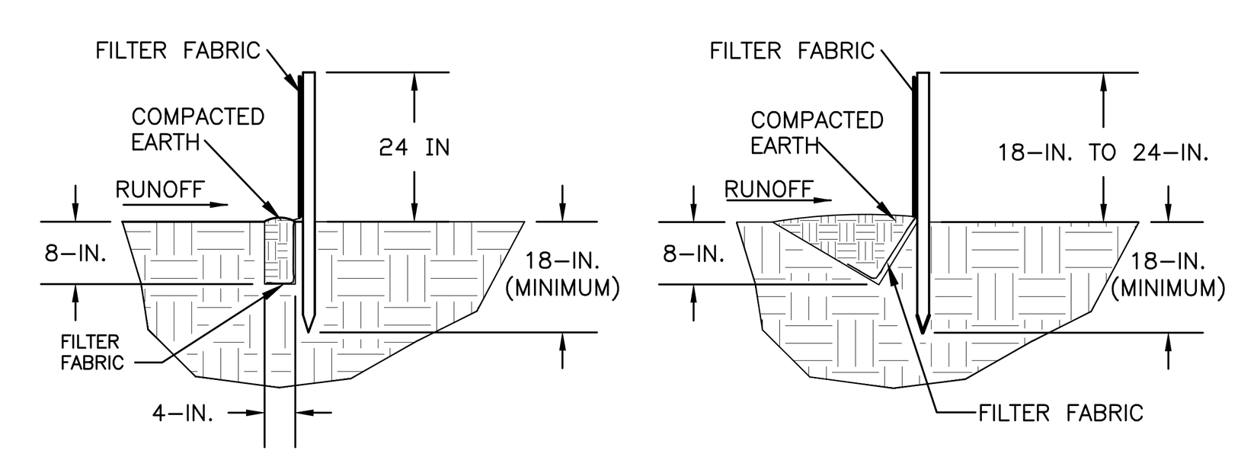


STRAW ROLL SEDIMENT LOGS (SL)

N.T.S. DIMENSIONS AND REINFORCEMENT DESIGN BY PRECAST MANUFACTURER



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

SILT FENCE DETAIL

WHEN AND WHERE TO USE It

SILT FENCE IS APPLICABLE IN AREAS:

WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET. WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V. THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS. THE FENCE SHOULD BE PLACED ACROSS THE SLOPE ALONG A LINE OF UNIFORM ELEVATION (PERPENDICULAR TO THE DIRECTION OF FLOW). THE FENCE SHOULD BE LOCATED AT LEAST 10 -FEET FROM THE TOE OF SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEAN OUT.

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

GEOTEXTILE FILTER FABRIC

FILTER FABRIC IS: COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES. FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES. CUT TO A MINIMUM WIDTH OF 36 INCHES.

INSTALLATION

EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND.

PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD.

PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP.

INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND.

SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1½-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS.

ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN CALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.

INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES.

LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

INSPECTION AND MAINTENANCE

INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.

CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY.

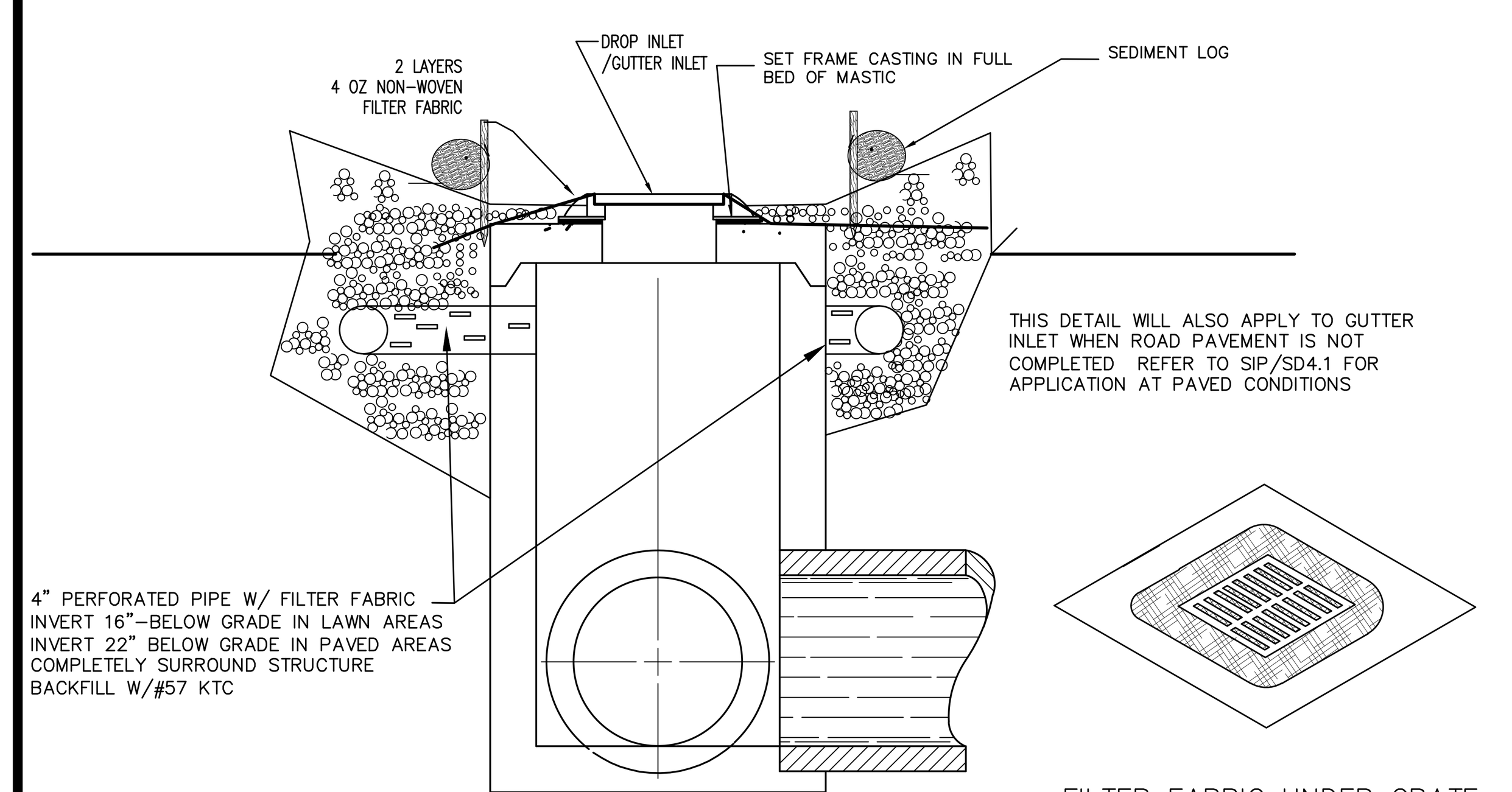
CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.

REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.

REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL

REINFORCED SILT FENCE / SILT FENCE (SF / RSF)

N.T.S.



FILTER FABRIC UNDER GRATE

FILTER FABRIC INLET PROTECTION

USE FILTER FABRIC THAT CONFORMS TO DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

INSTALLATION:

EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3-FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES.

CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES. ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

INSPECTION AND MAINTENANCE:

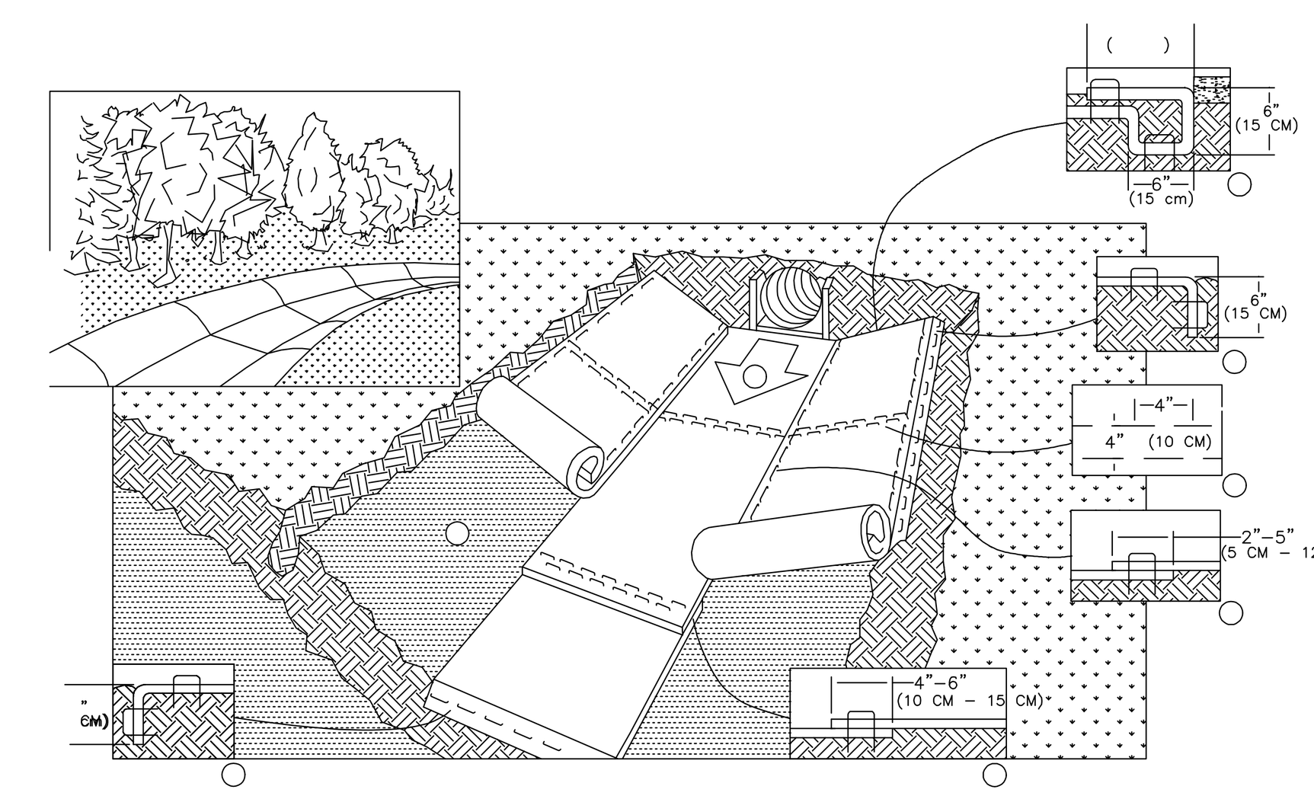
INSPECTIONS SHOULD BE MADE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES ½-INCHES OR MORE OF RAIN. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE.

TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE.MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

FABRIC INLET PROTECTION (FIP)

N.T.S.



CHANNEL INSTALLATION

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30CM) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

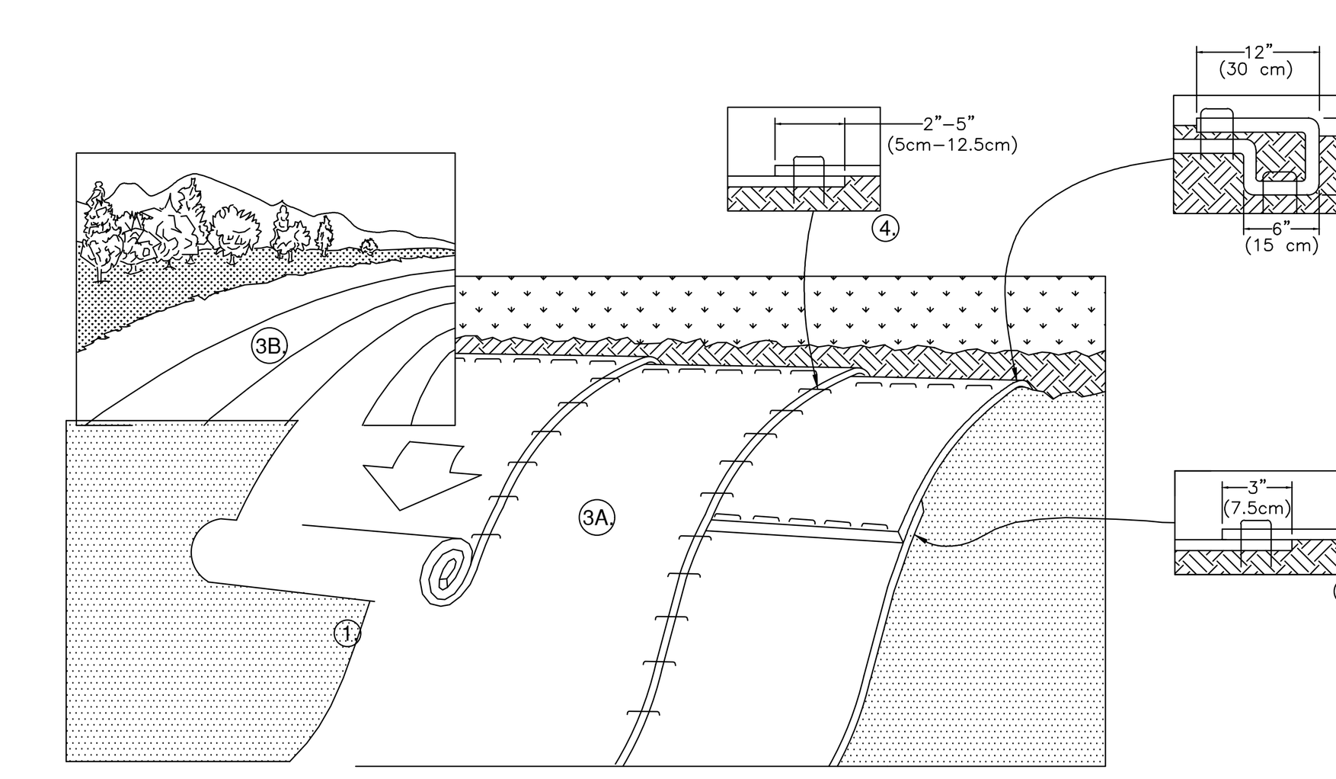
4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10CM-15CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10CM) APART AND 4" (10CM) ON CENTER TO SECURE BLANKETS.

5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5CM-12.5CM) (DEPENDING ON BLANKET TYPE) AND STAPLED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9M-12M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10CM) APART AND 4" (10CM) ON CENTER OVER ENTIRE WIDTH OF CHANNEL.

8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



SLOPE INSTALLATION

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

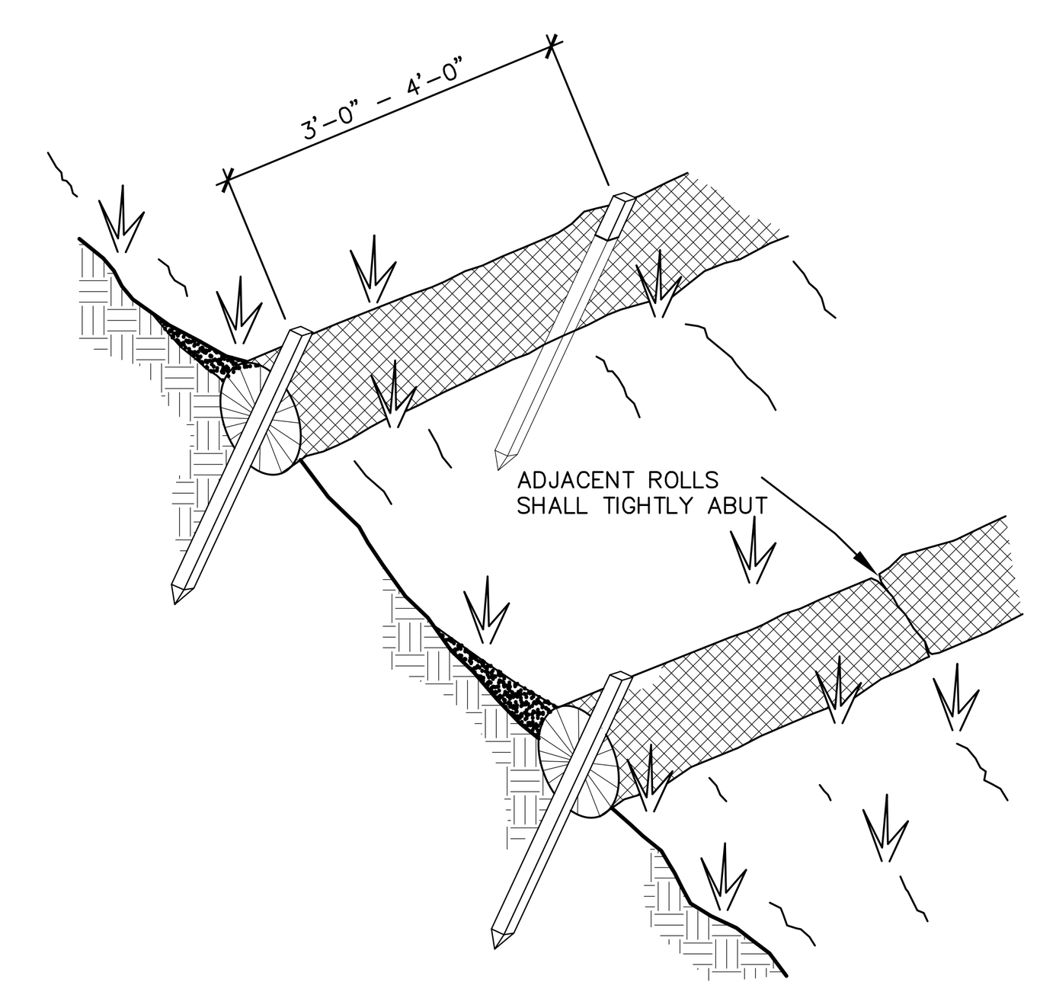
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE RECOMMENDED BY MANUFACTURER.

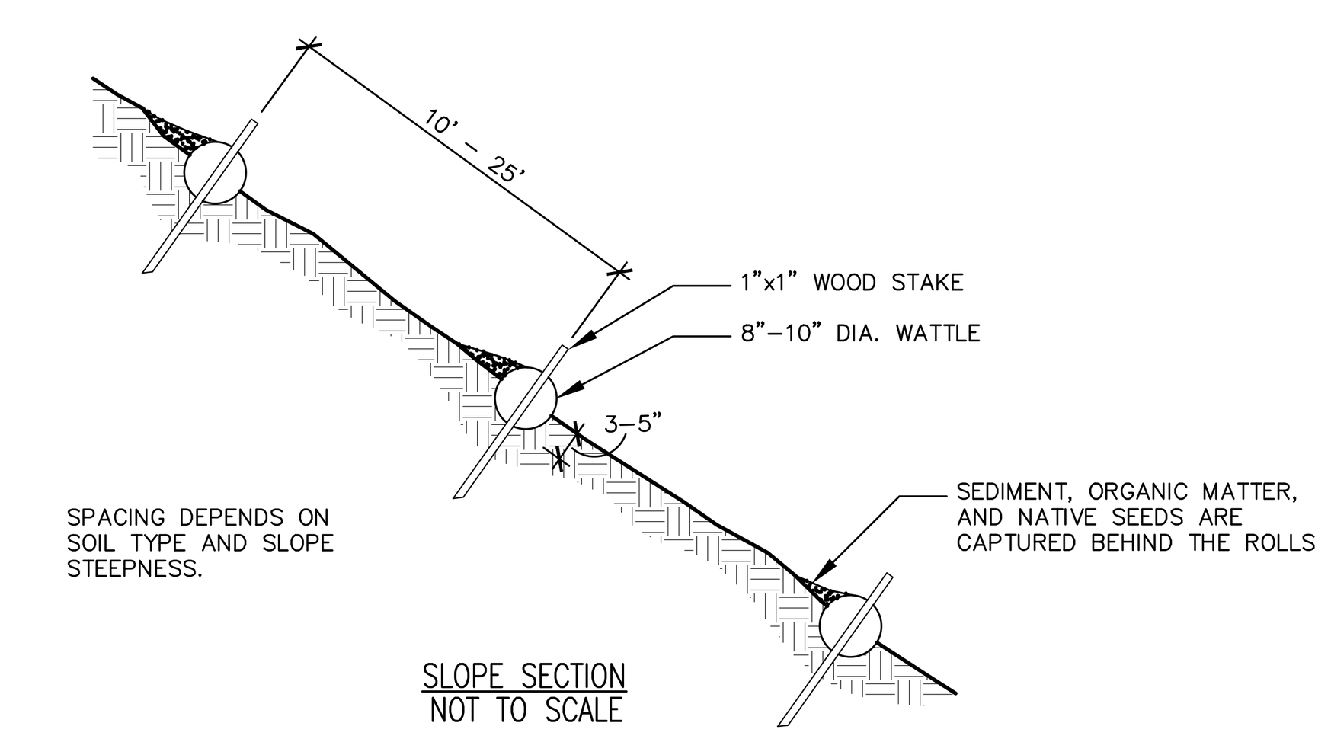
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SP SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT (ECB / TRM)



SLOPE ISOMETRIC
NOT TO SCALE



SLOPE SECTION
NOT TO SCALE

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" - 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW ROLL SWATTLE DETAIL (SR)

N.T.S.

SHERMAN CARTER BARNHART ARCHITECTS

STATE OF KENTUCKY ★ MICHAEL C. BARNHES 19610 LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SITE DETAILS

JOB NO.	1933
DATE	12/16/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD4.1

1. GENERAL:

A. THESE GENERAL NOTES PRESENT AND / OR SUMMARIZE KEY PROJECT INFORMATION FOR THE PLAN READER's CONVENIENCE. SEE ALSO INDIVIDUAL SHEET NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL REFERENCES TO CODES AND STANDARDS CONTAINED WITHIN THE CONTRACT DOCUMENTS ARE TO THE MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS OR ON THE PLANS.

C. THESE DRAWINGS REPRESENT STRUCTURAL COMPONENTS OF THIS BUILDING IN THEIR FINAL AND COMPLETED STATE. CONSTRUCTION PROCEDURES, METHODS and MEANS (INCLUDING, BUT NOT LIMITED TO, TEMPORARY SHORING AND BRACING), SAFETY PRECAUTIONS AND / OR MECHANICAL REQUIREMENTS TO ERECT THE ELEMENTS OF THIS BUILDING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND / OR SUB–CONTRACTORS DOING THE WORK. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLYING WITH OSHA REGULATIONS.

★★ D. THIS PROJECT INVOLVES RENOVATION AND ADDITIONS TO AN EXISTING FACILITY. THERE ARE NUMEROUS UNDERGROUND UTILITIES PRESENT WITHIN THE FOOTPRINT OF THIS BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL EXISTING UNDERGROUND UTILITIES FROM DAMAGE DURING CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE DONE TO THE EXISTING BUILDING OR EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST.

E. THE USE OF REPRODUCTIONS OF THE STRUCTURAL DRAWINGS BY THE CONTRACTOR OR ANY SUB–CONTRACTOR, DETAILER, FABRICATOR, ERECTOR, MATERIAL SUPPLIER, ET. AL. IN LIEU OF OR TO FACILITATE THE PREPARATION OF SHOP OR ERECTION DRAWINGS WILL NOT BE PERMITTED. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR.

F. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES, CONFLICTING INFORMATION AND / OR OMISSIONS ARE DISCOVERED. THE CONTRACTOR SHALL AWAIT CLARIFICATION / RESOLUTION OF SUCH CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.

G. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE ARCHITECT IMMEDIATELY ANY DISCREPANCIES, CONFLICTING INFORMATION AND / OR OMISSIONS ARE DISCOVERED. THE CONTRACTOR SHALL AWAIT CLARIFICATION / RESOLUTION OF SUCH CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.

H. THE CONTRACTOR SHALL CHECK AND APPROVE ALL SHOP DRAWINGS AND MATERIAL SUBMITTALS PRIOR TO SUBMITTING SAME TO THE ARCHITECT FOR REVIEW. FAILURE TO COMPLETELY CHECK THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROBLEMS THAT MAY ARISE FROM COORDINATION, DETAILING, FABRICATION, AND / OR ERECTION ERRORS. DELAYS IN THE PROJECT RESULTING FROM THE REJECTION OF INCOMPLETE OR INADEQUATE SUBMITTALS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

J. THE CONTRACTOR SHALL COORDINATE THE SUPPORT REQUIREMENTS FOR MECHANICAL EQUIPMENT, PARTITIONS, AND OTHER SUCH ITEMS AND VERIFY THAT THE MISCELLANEOUS FRAMING SHOWN ON STRUCTURAL DRAWINGS TO SUPPORT THOSE ITEMS IS CONSISTENT WITH THE MANUFACTURER's REQUIREMENTS.

K. PROPRIETARY PRODUCTS OF INDIVIDUAL MANUFACTURERS AND / OR TRADEMARKED PRODUCTS ARE SPECIFIED HEREIN ON AN "OR APPROVED EQUAL" BASIS. SUBJECT TO THE SUBSTITUTION PROVISIONS OUTLINED IN THE SPECIFICATIONS , MANUFACTURER's DATA ON ALTERNATE PRODUCTS OF A QUALITY EQUAL TO OR BETTER THAN THOSE SPECIFIED MAY BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. UPON APPROVAL OF ARCHITECT, THESE ALTERNATE PRODUCTS MAY BE USED IN LIEU OF THE SPECIFIED PRODUCT.

L. ABBREVIATIONS:

"ACI"........ REFERS TO THE "AMERICAN CONCRETE INSTITUTE"
"AISC"........ REFERS TO THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION"
"SJI"........ REFERS TO THE "STEEL JOIST INSTITUTE"
"SDI"........ REFERS TO THE "STEEL DECK INSTITUTE"
"ASTM"........ REFERS TO THE "AMERICAN SOCIETY FOR TESTING AND MATERIALS"
"AWS"........ REFERS TO THE "AMERICAN WELDING SOCIETY"
"V.I.F."........ DENOTES A DIMENSION OR CONDITION THAT MUST BE "VERIFIED IN THE FIELD"

"U.N.O."........ MEANS "UNLESS NOTED OTHERWISE"
"T.U.N."........ MEANS "TYPICAL UNLESS NOTED" OTHERWISE
"TYP."........ THIS NOTATION ON SECTIONS, DIMENSIONS AND DETAILS INDICATES THAT THE IDENTIFIED CONTITION IS "TYPICAL" AT SEVERAL LOCATIONS.

"SIM."........ THIS NOTATION ON SECTIONS AND DETAILS INDICATES THAT THE IDENTIFIED CONDITION IS "SIMILAR" TO THE REFERENCED SECTION OR DETAIL.

"N.S. & F.S."........ MEANS "NEAR SIDE AND FAR SIDE"
"E.W."........ MEANS "EACH WAY"
"EL." or "ELEV."........ MEANS "ELEVATION"
"T.O.S. ELEV."........ or "T/STL. ELEV." DENOTES "TOP OF STEEL ELEVATION"

"T/SLAB"........ DENOTES "TOP OF SLAB"
"T/C ELEV."........ or "T/CONC. ELEV." DENOTES "TOP OF CONCRETE ELEVATION"

"B/FTG. ELEV."........ DENOTES "BOTTOM OF FOOTING ELEVATION"
"SEE ARCH."........ DENOTES A DIMENSION OR CONDITION THAT IS CLARIFIED ON THE ARCHITECTURAL DRAWINGS

"CTRS." or "c/c"........ DENOTES A "CENTER TO CENTER DIMENSION"
"C.J."........ DENOTES A "CONTROL JOINT" OR A "CONSTRUCTION JOINT" IN THE CONCRETE SLAB OR FOUNDATION WALLS – SEE SECTIONS AND DETAILS ON SHEET S2.0 FOR ADDITIONAL INFORMATION

"R.C.J."........ DENOTES A "REQUIRED CONSTRUCTION JOINT"
"WWF"........ DENOTES "WELDED WIRE FABRIC" CONCRETE SLAB REINFORCING
"WWR"........ DENOTES "WELDED WIRE REINFORCEMENT" CONCRETE SLAB REINFORCING
"TCX"........ DENOTES A STEEL BAR JOIST "TOP CHORD EXTENSION"
"J.B.E." or "JBE"........ DENOTES "JOIST BEARING ELEVATION"
"T.B.E." or "TBE"........ DENOTES "TRUSS BEARING ELEVATION"
"DIA." or "ø"........ MEANS "DIAMETER"
"L.F."........ MEANS "LINEAR FEET"
"Thk."........ MEANS "THICK" or "THICKNESS"
"Sq."........ MEANS "SQUARE"
"Lg."........ MEANS "LONG" or "LENGTH"
"STD. ACI HOOK"........ DENOTES A "STANDARD ACI HOOK" IN REINFORCING STEEL, BENT TO THE ANGLE SPECIFIEC, THAT IS DETAILED AND FABRICATED IN ACCORDANCE WITH THE APPLICABLE ACI SPECIFICATIONS

"CMU" or "C.M.U."........ MEANS "CONCRETE MASONRY UNIT"
"XX FS"........ DENOTES A "FOOTING STEP", "XX" INCHES DEEP
"INT."........ MEANS "INTERIOR"
"EXT."........ MEANS "EXTERIOR"
"E.F."........ MEANS "EACH FACE"
"N.F."........ MEANS "NEAR FACE"
"F.F."........ MEANS "FAR FACE"
"I.F."........ MEANS "INSIDE FACE"
"O.F."........ MEANS "OUTSIDE FACE"
"LW"........ DENOTES "LIGHTWEIGHT CONCRETE"
"NW"........ DENOTES "NORMAL WEIGHT CONCRETE"
"N.I.C."........ MEANS "NOT IN CONTRACT"
"B" or "Bott."........ MEANS "BOTTOM"
"T"........ MEANS "TOP"
"RE:"........ MEANS "REFER TO" THE SECTION OR DETAIL LISTED FOR ADDITIONAL INFORMAITON.
e.g. "RE: A/S2.2" MEANS "REFER TO SECTION / DETAIL A ON SHEET S2.2 FOR ADDITIONAL INFORMATION"

M. SPECIAL IDENTIFICATION: ★ INDICATES CONTRACT AND CONSTRUCTION REQUIREMENTS THAT, IN THE EXPERIENCE OF THE DESIGNER, ARE (1) ESPECIALLY CRITICAL TO SAFE OR SATISFACTORY PERFORMANCE; ARE (2) FREQUENTLY NOT GIVEN ADEQUATE CONSTRUCTION QUALITY CONTROL BY THE CONTRACTOR OR SUB–CONTRACTORS; OR, ARE (3) ARE NOT "STANDARD" OR COMMON CONSTRUCTION REQUIREMENTS AND THEREFORE MAY BE SUBJECT TO CONTRACTOR OVERSIGHT IN COSTING AND / OR CONSTRUCTION.

2. DESIGN CRITERIA:

A. THE APPLICABLE BUILDING CODE FOR THIS PROJECT IS THE KENTUCKY BUILDING CODE (KBC), CURRENT (2018) EDITION. LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH ASCE 7–10.

B. PROJECT LOCATION:

TAYLORSVILLE, SPENCER COUNTY, KENTUCKY
LATITUDE: 38.033832° N
LONGITUDE: 85.343439° W

C. RISK CATEGORY = III (MIDDLE SCHOOL) – RE: ASCE 7–10, TABLE 1.5–1

D. SUPERIMPOSED DESIGN LOADS:

1. GRAVITY LOADS:
DEAD LOADS:
ROOF DEAD LOAD = 30 psf
NEW FLOOR DEAD LOAD = 65 psf
LIVE LOADS:
ROOF LIVE LOAD = 30 psf
FLOOR LIVE LOAD = 100 psf

2. WIND LOAD CRITERIA:
BASIC WIND SPEED, V (3–sec GUST) = 120 mph (ULTIMATE)
EXPOSURE CATEGORY = C
MEAN ROOF HEIGHT, h = 20.0 feet
CLASSROOM HEIGHT and EXPOSURE ADJUSTMENT COEFFICIENT = 1.35

COMPONENTS & CLADDING DESIGN WIND PRESSURE:

ROOF MEMBERS (NET UPLIFT):
ZONE 1 = –29.0 psf
ZONE 2 = –40.9 psf
ZONE 3 = –69.9 psf
WALL MEMBERS:
ZONE 4 = –29.0 psf
ZONE 5 = –35.5 psf

3. SEISMIC DESIGN CRITERA:
SPECTRAL RESPONSE ACCELERATION –
@ SHORT PERIODS, Ss = 0.187g (USGS)
@ 1–sec PERIODS, S1 = 0.100g (USGS)

SEISMIC IMPORTANCE FACTOR, IE = 1.25
SEISMIC DESIGN CATEGORY = B
SITE SEISMIC CLASSIFICATION = C (PER GEOTECHNICAL)
DESIGN SPECTRAL RESPONSE ACCELERATION –
@ SHORT PERIODS, SDS = 0.150g
@ 1–sec. PERIODS, SD1 = 0.113g

ANALYSIS METHOD: EQUIVALENT LATERAL FORCE METHOD (ELFM)
BASIC SEISMIC FORCE RESISTING SYSTEM CRITERIA:
BEARING WALL SYSTEM OF INTERMEDIATE REINFORCED MASONRY SHEARWALLS

RESPONSE MODIFICATION FACTOR, R = 3.50
DEFLECTION AMPLIFICATION FACTOR, Cd = 2.25
SYSTEM OVERSTRENGTH FACTOR, Ωo = 2.50
APPROXIMATE FUNDAMENTAL PERIOD, Ta = 0.224 sec

DESIGN BASE SHEAR:
SEISMIC RESPONSE COEFFICIENT, Cs = 0.053429
TOTAL BASE SHEAR (ULTIMATE STATE) = 25.0 kips
TOTAL BASE SHEAR (ALLOWABLE STRESS) = 17.5 kips

4. SNOW LOAD CRITERIA:
GROUND SNOW LOAD = 15 psf
SNOW IMPORTANCE FACTOR, Is = 1.10
THERMAL FACTOR, Ct = 1.00
SNOW EXPOSURE FACTOR, Ce = 1.10
SNOWDRIFTS ACCOUNTED FOR IN ACCORDANCE WITH ASCE 7–10.

E. FOUNDATIONS:

1. FOUNDATION AND CONCRETE FLOOR SLAB ON GRADE DESIGNS AS WELL AS OTHER ASPECTS OF EARTHWORK AND SITE WORK FOR THIS PROJECT HAVE BEEN BASED ON GEOTECHNICAL REPORT NUMBER 61:2103 PREPARED FOR THIS PROJECT BY ECS SOUTHEAST, LLP & DATED AUGUST 29 2019. A COPY OF THIS REPORT IS AVAILABLE FROM THE ARCHITECT FOR THE CONTRACTOR's USE. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND BECOME FAMILIAR WITH AND FOLLOW THE INFORMATION AND RECOMMENDATIONS SET FORTH THEREIN. THE CONTRACTOR MUST UNDERSTAND THAT THE ACCURACY OF THE REPORT IS LIMITED TO THOSE AREAS SPECIFICALLY ADDRESSED. ALL INFORMATION AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION BY A QUALIFIED GEOTECHNICAL ENGINEER. SEE EARTHWORK, SLABS ON GRADE AND FOUNDATIONS NOTES BELOW FOR ADDITIONAL INFORMATION.

2. FOUNDATION DESIGN CRITERIA:
FOUNDATION SYSTEM – SHALLOW SPREAD FOOTINGS BEARING ON FIRM, SUITABLE SOIL OR LEAN CONCRETE FILL TO SUITABLE SOIL.

3. ALLOWABLE BEARING PRESSURES:
CONTINUOUS WALL FOOTINGS – = 2,500 psf
ISOLATED COLUMN FOOTINGS – = 3,000 psf

4. BLASTING:
BLASTING IS PROHIBITED ON THIS PROJECT.

3. EARTHWORK, SLABS ON GRADE AND FOUNDATIONS:

★ A. THE OWNER WILL ENGAGE AN INDEPENDENT GEOTECHNICAL ENGINEERING, TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR" OR "GEOTECHNICAL ENGINEER") TO MONITOR AND (WHEN APPROPRIATE) DIRECT EARTHWORK OPERATIONS AND FOUNDATION CONSTRUCTION ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE SELECTED FIRM AND COORDINATE REQUIRED TESTING AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER TO ENSURE THAT ALL EARTHWORK IS CARRIED OUT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND GEOTECHNICAL REPORT, AND THAT ALL TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS ARE COMPLETED AND DOCUMENTED. CONTRACTOR SHALL PROVIDE TWENTY–FOUR (24) HOURS (MINIMUM) NOTICE TO GEOTECHNICAL ENGINEER WHEN EARTHWORK IS TO BE PERFORMED AND / OR WHEN EARTHWORK TESTING AND INSPECTIONS ARE REQUIRED. DUTIES OF THE GEOTECHNICAL ENGINEER ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

B. AFTER SUB–GRADE PREPARATION OPERATIONS (RE: S1.0 & CIVIL DRAWINGS AND SPECIFICATIONS) HAVE BEEN COMPLETED AND ACCEPTED BY THE GEOTECHNICAL ENGINEER THE SLAB BASE SHALL THEN BE PLACED AND COMPACTED. THE SLAB BASE SHALL CONSIST OF SIX–INCHES (6") OF PROPERLY PLACED AND COMPACTED, WELL GRADED CRUSHED STONE (e.g. KYDOT DGA OR APPROVED EQUAL). THE STONE BASE SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM. THE GEOTECHNCAL ENGINEER SHALL DIRECT AND DOCUMENT PLACEMENT & COMPACTION OF THE SLAB STONE BASE.

C. UNLESS NOTED OTHERWISE, ALL FOUNDATIONS FOR THIS PROJECT SHALL BE CONSTRUCTED AT TOP OF FOOTING ELEVATIONS AS FOLLOWS: 24" (MIN.) BELOW ADJACENT INTERIOR FLOOR SLAB ON GRADE OR 18" (MIN.) BELOW ADJACENT EXTERIOR FINISH GRADE, WHICHEVER IS LOWER.

★ D. OLD, UNCONTROLLED FILL AND SOFT YIELDING SOILS WERE IDENTIFIED IN THE GEOTECHNICAL REPORT BORING LOGS AND MAY BE ENCOUNTERED DURING FOUNDATION EXCAVATIONS. FOUNDATIONS SHALL NOT BEAR ON THESE OR ANY OTHER UNSUITABLE MATERIAL. IF UNSUITABLE MATERIAL (AS DETERMINED IN THE FIELD BY THE GEOTECHNICAL ENGINEER) IS ENCOUNTERED AT FOUNDATION THE BEARING ELEVATION, THE EXCAVATION SHALL BE UNDERCUT TO SUITABLE, FIRM BEARING MATERIAL. AFTER SUITABLE BEARING MATERIAL IS ACHIEVED, EXCAVATION SHALL BE BROUGHT TO BEARING ELEVATION WITH LEAN CONCRETE FILL – RE: S1.0 & C/S2.1 – GEOTECHNCAL ENGINEER SHALL DIRECT AND DOCUMENT ALL UNDERCUTTING & BACKFILLING ACTIVITIES.

3. EARTHWORK, SLABS ON GRADE AND FOUNDATIONS: (Continued)

★ E. FOUNDATION CONCRETE SHALL BE PLACED THE SAME DAY THAT THE EXCAVATION IS OPENED. THE GEOTECHNICAL REPORT INDICATES THAT THE BEARING STRATA WILL BE DEGRADED BY WETTING, DRYING AND / OR FREEZING IF THE EXCAVATION IS LEFT OPEN FOR AN EXTENDED PERIOD OF TIME. WHEN ANY EXCAVATION IS TO BE LEFT OPEN OVERNIGHT, THE CONTRACTOR SHALL UNDERCUT THE EXCAVATION AND PLACE A 4" Thick "LEAN CONCRETE" MUD MAT OVER ALL EXPOSED BEARING MATERIALS.

F. "XX F.S." DENOTES A FOOTING STEP THAT A FOOTING STEP IS REQUIRED WHERE THE BOTTOM OF FOOTING ELEVATION CHANGES. "XX" DENOTES THE DEPTH OF THE FOOTING STEP – WHERE NO DEPTH IS INDICATED, FOOTING STEP DEPTH SHALL BE FIELD DETERMINED – RE: G/S2.0 – FOOTING STEPS SHALL BE FIELD–LOCATED BY THE CONTRACTOR BASED ON ACTUAL CONDITIONS ENCOUNTERED. FOOTING STEP LOCATIONS AND DETAILS SHALL BE PROVIDED ON THE REINFORCING STEEL SHOP DRAWINGS.

G. ALL ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO FINISH FLOOR ELEVATION 100.00' COORDINATE ELEVATIONS WITH CIVIL DRAWINGS. (THE EXISTING FLOOR ELEVATION IS 99'–0")

4. CAST–IN–PLACE REINFORCED CONCRETE:

A. CONCRETE MIX DESIGN, PLACING, FINISHING AND TESTING SHALL CONFORMANCE TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" BY THE AMERICAN CONCRETE INSTITUTE (ACI), LATEST EDITION.

B. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "REINFORCING BAR DETAILING MANUAL OF STANDARD PRACTICE", LATEST EDITION OF EACH.

C. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE ACI "FIELD REFERENCE MANUAL"; ACI PUBLICATION SP–15 (LATEST EDITION) AT THE JOB SITE AT ALL TIMES.

D. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO MONITOR AND INSPECT CONCRETE CONSTRUCTION, AND TEST CONCRETE MATERIALS ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE INSPECTOR AND COORDINATE WITH INSPECTOR TO ENSURE THAT ALL TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS ARE COMPLETED AND DOCUMENTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY–FOUR (24) HOURS NOTICE TO THE INSPECTOR WHEN CONCRETE TESTING OR INSPECTIONS ARE REQUIRED. THE DUTIES OF THE TESTING AND INSPECTION FIRM ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3

E. ALL CONCRETE USED ON THIS PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,000 psi AT TWENTY–EIGHT (28) DAYS (UNLESS NOTED OTHERWISE). CONCRETE USED IN CONSTRUCTION CONCRETE FLOOR SLABS ON GRADE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,500 psi AT TWENTY–EIGHT (28) DAYS.

F. THE MAXIMUM WATER–CEMENT RATIO (W/C) FOR CONCRETE USED IN CONCRETE FLOOR SLAB CONSTRUCTION SHALL BE 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM W/C OF 0.50 (UNLESS NOTED OTHERWISE).

G. ALL CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 6% (+/– 1.5%).

EXCEPTION:
ENTRAINED AIR MAY BE OMITTED FROM THE CONCRETE MIX FOR FLOOR SLABS ONLY WHEN OUTSIDE AIR–TEMPERATURE IS PREDICTED TO REMAIN ABOVE 40° FOR A PERIOD OF AT LEAST FORTY–EIGHT (48) HOURS BEGINNING WITH CONCRETE PLACEMENT.

H. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATION A615 GRADE 60. (U.N.O.). REINFORCING STEEL THAT IS TO BE WELDED SHALL CONFORM TO ASTM A706, GR 60.

J. REINFORCING FOR CONCRETE FLOOR SLABS ON GRADE SHALL BE WELDED WIRE REINFORCEMENT, WWR 6x6–W2.9xW2.9 LOCATED AT $1\frac{1}{2}$" BELOW THE TOP OF SLAB SURFACE (UNLESS NOTED OTHERWISE). WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY LOCATED AND SUPPORTED USING CHAIRS, BOLSTERS OR BAR SUPPORTS. "HOOKING" THE WWR AND ATTEMPTING TO PULL THE MESH INTO POSITION AFTER CONCRETE IS PLACED IS NOT ACCEPTABLE. AT EDGES AND ENDS OF WWR SHEETS AND / OR ROLLS, THE WELDED WIRE REINFORCEMENT SHALL BE LAPPED ONE (1) WIRE SQUARE SPACE PLUS TWO–INCHES (2") MINIMUM.

K. WELDING OF REINFORCING STEEL IS PERMITTED ONLY WITH THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE PERMITTED, WELDING SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, SECTION 5.3. INSPECTION OF WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH TABLE 1705.2.2 OF THE KBC.

L. ALL CONCRETE REINFORCING STEEL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES (UNLESS NOTED OTHERWISE). SPLICE LENGTH SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 5 OF THE CRSI "DESIGN HANDBOOK" (LATEST EDITION). LAP SPLICES FOR REINFORCING STEEL USED IN MASONRY CONSTRUCTION SHALL BE EQUAL TO 48 BAR DIAMETERS (MINIMUM).

M. MINIMUM CONCRETE PROTECTION FOR REINFORCING STEEL (CLEAR COVER):

1. UNFORMED SURFACE CAST AGAINST EARTH........ 3"
2. FORMED SURFACE IN CONTACT WITH EARTH........ 2½"
3. FORMED SURFACE EXPOSED TO WEATHER........ 2½"
4. FORMED SURFACE NOT EXPOSED TO WEATHER OR IN CONCTACT WITH GROUND:
   a. SLABS........ ¾"
   b. WALLS AND JOISTS........ 1½"
   c. BEAMS, GIRDERS AND COLUMNS........ 2½"
5. IN NO CASE SHALL THE CLEAR COVER BE LESS THAN THE BAR DIAMETER.

N. ALL HOOKS SHOWN ON THE DRAWINGS FOR REINFORCING STEEL SHALL BE ACI STANDARD 90° OR ACI STANDARD 180° HOOKS AS INDICATED.
1. BAR LENGTHS SHOWN ARE "OUT–TO–OUT" AND DO NOT INCLUDE HOOK LENGTH.
2. PROVIDE HOOKS FOR ALL TOP BARS IN SLABS AND BEAMS AT DISCONTINUOUS ENDS

O. PROVIDE CORNER BARS TO MATCH ALL LONGITUDINAL REINFORCING STEEL AT CORNERS AND INTERSECTIONS OF ALL CONCRETE WALLS, BEAMS, GRADE BEAMS, THICKENED SLABS, etc. CORNER BAR SIZE AND SPACING SHALL MATCH THE SIZE AND SPACING OF LONGITUDINAL BARS BEING LAPPED. PROVIDE 24" LAP FOR ALL CORNER BARS #7 AND SMALLER. PROVIDE 30" LAP FOR ALL CORNER BARS #8 AND LARGER. SEE DETAIL D/S2.0 FOR ADDITIONAL INFORMATION.

P. WHERE DOWELS ARE REQUIRED OUT OF FOUNDATION WALLS AND FOOTINGS TO MATCH VERTICAL BARS IN MASONRY WALLS, THE REBAR DETAILER FOR THE REINFORCING STEEL SUPPLIER SHALL LOCATE EACH SUCH DOWEL ON REINFORCING STEEL PLACEMENT DRAWINGS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN THE REJECTION OF THE REINFORCING STEEL SHOP DRAWING SUBMITTAL.

Q. "C.J." DENOTES A SLAB CONSTRUCTION JOINT OR SLAB CONTROL JOINT AT THE CONTRACTOR'S OPTION. CONTROL JOINTS SHALL BE SAW–CUT TO A DEPTH EQUAL TO ONE–QUARTER ($\frac{1}{4}$) OF THE SLAB THICKNESS. RE: A/S2.0 REGARDING SLAB CONTROL / CONSTRUCTION JOINTS:

1. THE C.J. LAYOUT SHOWN ON THE PLAN IS FOR CONCEPTUAL PURPOSES ONLY. THE CONTRACTOR SHALL LAY OUT C.J.'s AT A MAXIMUM SPACING OF 15'–0".
   a. CONTRACTOR SHALL SHOW PROPOSED C.J. LAYOUT ON REINFORCING STEEL SHOP DRAWINGS SUBMITAL.
   b. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTOR TO FACILITATE CONCRETE PLACEMENT (UNLESS NOTED OTHERWISE).
2. NO LATER THAN ONE–WEEK AFTER SUBMITTING THE C.J. LAYOUT PLAN TO THE ARCHITECT, THE CONTRACTOR SHALL CONVENE A PRE–CONCRETE CONFERENCE AT THE JOB SITE TO RESOLVE ANY QUESTIONS THAT THE ARCHITECT, ENGINEER AND / OR CONTRACTOR MAY HAVE.
3. CONTROL JOINTS MUST BE SAW–CUT A WITHIN A MAXIMUM OF TWELVE (12) HOURS AFTER CONCRETE PLACEMENT.

4. CAST–IN–PLACE REINFORCED CONCRETE: (Continued)

R. SPECIAL ATTENTION IS DIRECTED TO SECTION 03300 OF THE SPECIFICATIONS FOR CONCRETE TESTING REQUIREMENTS AND THE DISTRIBUTION OF TEST REPORTS. ADDITIONAL INFORMATION REGARDING CONCRETE TESTING IS CONTAINED IN SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

S. WHERE NEW REINFORCING STEEL IS REQUIRED OUT OF IN–PLACE CONCRETE OR CONCRETE MASONRY (CMU), DEFORMED BARS OF THE SIZE SPECIFIED ON THE DRAWINGS SHALL BE SET INTO THE HARDENED CONCRETE / CMU USING AN ACRYLIC BASED, ALL–TEMPERATURE ADHESIVE ANCHORING SYSTEM SUCH AS "ACRYLIC TIE (AT)" HIGH STRENGTH, ALL–TEMPERATURE ADHESIVE SYSTEM MANUFACTURED BY THE "SIMPSON STRONG–TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" OR USING AN EPOXY BASED ADHESIVE ANCHORING SYSTEM SUCH AS "HILTI HIT–RE 500 V3" FOR CONCRETE AND "HILTI HIT–HY70" FOR CMU. THESE PRODUCTS ARE PRODUCED BY "HILTI; P. O. BOX 21148; TULSA, OK 74121" (OR APPROVED EQUAL). THE DEPTH OF EMBEDMENT SHALL BE AS INDICATED ON THE PLANS. WHERE NO DEPTH IS SPECIFIED, EMBEDMENT SHALL BE AS SPECIFIED BY THE ADHESIVE MANUFACTURER TO DEVELOP THE FULL YIELD STRENGTH OF THE BAR. INSTALLATION SHALL BE IN ACCORDANCE WITH NOTE 4.W (BELOW).

T. WHERE NEW ANCHOR BOLTS ARE REQUIRED OUT OF IN–PLACE CONCRETE OR CONCRETE MASONRY (CMU), THREADED RODS OF THE SIZE SPECIFIED ON THE DRAWINGS SHALL BE SET INTO THE HARDENED CONCRETE / CMU USING AN ACRYLIC BASED, ALL–TEMPERATURE ADHESIVE ANCHORING SYSTEM SUCH AS "ACRYLIC TIE (AT)" HIGH STRENGTH, ALL–TEMPERATURE ADHESIVE SYSTEM MANUFACTURED BY THE "SIMPSON STRONG–TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" OR USING AN EPOXY BASED ADHESIVE ANCHORING SYSTEM SUCH AS "HILTI HIT–HY 200" FOR CONCRETE AND "HILTI HIT–HY70" FOR CMU. "HILTI HIT–Z" OR "HIT–Z–R" ANCHOR RODS SHALL BE USED WITH HILTI EPOXIES THESE PRODUCTS ARE PRODUCED BY "HILTI; P. O. BOX 21148; TULSA, OK 74121" (OR APPROVED EQUAL). THE DEPTH OF EMBEDMENT SHALL BE AS INDICATED ON THE PLANS. WHERE NO DEPTH IS SPECIFIED, EMBEDMENT SHALL BE AS SPECIFIED BY THE ADHESIVE MANUFACTURER TO DEVELOP THE FULL YIELD STRENGTH OF THE BAR. INSTALLATION SHALL BE IN ACCORDANCE WITH NOTE 4.W (BELOW).

U. WHERE "KWIK BOLTS" (BASIS OF DESIGN) ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSTALL EXPANSION ANCHORS OF THE SIZE AND QUANTITY SPECIFIED. USE "KWIK BOLT TZ" EXPANSION ANCHORS FOR CONCRETE APPLICATIONS AND "KWIK BOLT 3" EXPANSION ANCHORS FOR CONCRETE MASONRY (CMU) APPLICATIONS. "KWIK BOLTS" SHALL BE MANUFACTURED BY "HILTI, CORP; P.O. BOX 21148; TULSA, OKLAHOMA 74146" OR USE "STRONG–BOLTS" (FOR CONCRETE & CMU) PRODUCED BY "SIMPSON STRONG–TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" (OR APPROVED EQUAL). EXPANSION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH NOTE 4.W (BELOW). WHERE NO EMBEDMENT DEPTH FOR ANCHORS IS SPECIFIED ON THE DRAWINGS, EXPANSION ANCHORS SHALL BE INSTALLED INTO CONCRETE OR MASONRY (CMU) AS SPECIFIED IN THE FOLLOWING SCHEDULE:

1.	½" ø ANCHOR	3½"	(CONCRETE)	4¼"	(CMU)
2.	⅝" ø ANCHOR	4"	(CONCRETE)	5"	(CMU)
3.	¾" ø ANCHOR	4¾"	(CONCRETE)	6"	(CMU)
4.	1" ø ANCHOR	6"	(CONCRETE)	7½"	(CMU)

AT CONTRACTOR's OPTION, EXPANSION ANCHORS MAY BE REPLACED WITH ADHESIVE ANCHORS SIMILAR TO THOSE DEFINED IN NOTE No. T (ABOVE). DEPTH OF EMBEDMENT SHALL BE AS SPECIFIED HEREIN.

V. WHERE CONCRETE SCREWS ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSTALL CONCRETE SCREWS OF THE SIZE AND QUANTITY SPECIFIED. USE "KWIK HUS–EZ (KH–EZ)" CONCRETE SCREWS MANUFACTURED BY "HILTI, CORP; P.O. BOX 21148; TULSA, OKLAHOMA 74146" OR USE "TITEN HD" HEAVY–DUTY SCREW ANCHORS PRODUCED BY "SIMPSON STRONG–TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" (OR APPROVED EQUAL). CONCRETE SCREWS SHALL BE INSTALLED IN ACCORDANCE WITH NOTE 4.W (BELOW). WHERE NO EMBEDMENT DEPTH IS SPECIFIED FOR ANCHORS ON THE DRAWINGS, SCREW ANCHORS SHALL BE INSTALLED INTO CONCRETE OR MASONRY (CMU) AS SPECIFIED IN THE FOLLOWING SCHEDULE:

1.	½" ø ANCHOR	4¼"	(CONCRETE)	4¼"	(CMU)
2.	⅝" ø ANCHOR	5"	(CONCRETE)	5"	(CMU)
3.	¾" ø ANCHOR	6¼"	(CONCRETE)	6¼"	(CMU)

AT CONTRACTOR's OPTION, CONCRETE SCREWS MAY BE REPLACED WITH KWIK BOLTS OR ADHESIVE ANCHORS SIMILAR TO THOSE DEFINED IN NOTE No. T (ABOVE). DEPTH OF EMBEDMENT SHALL BE AS SPECIFIED HEREIN.

★★ W. THE CONTRACTOR SHALL OBTAIN AN ICC EVALUATION SERVICE REPORT FOR EACH TYPE OF ACRYLIC / EPOXY ADHESIVE OR POST–INSTALLED ANCHOR USED ON THIS PROJECT. POST–INSTALLED ANCHOR BOLTS AND REINFORCING STEEL SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR / ADHESIVE MANUFACTURER's SPECIFICATIONS. INSTALLERS SHALL BE TRAINED IN PROPER INSTALLATION PROCEDURES BY A REPRESENTATIVE OF THE MANUFACTURER. THE INSTALLATION SHALL BE VERIFIED AND DOCUMENTED IN ACCORDANCE WITH THE APPROPRIATE ICC ES REPORT BY THE SPECIAL INSPECTOR IN ACCORDANCE WITH NOTES ON SHEET S0.3.

X. CONCRETE FINISHES:
1. FORMED SURFACES:
   a. PAINTED OR EXPOSED TO VIEW – RUBBED FINISH (U.N.O.)
   b. COVERED – AS CAST
2. FLAT WORK SURFACES:
   a. INTERIOR, EXPOSED TO VIEW – TROWELED
   b. INTERIOR, CARPETED OR TILED – TROWELED
   c. EXTERIOR, SIDEWALKS OR DRIVEWAYS – BROOMED
   d. EXTERIOR, STAIRS OR RAMPS – BROOMED

Y. PIPE OR CONDUIT EMBEDDED IN CONCRETE WALLS AND SLABS:
1. MAXIMUM DIAMETER = $\frac{1}{3}$ TIMES (SLAB OR WALL) THICKNESS
2. MINIMUM SPACING = 3 TIMES (CONDUIT OR PIPE) DIAMETER ON CENTER

Z. CONCRETE FOUNDATIONS HAVE NOT BEEN DESIGNED TO RESIST LATERAL EARTH PRESSURE. FILL ON BOTH SIDES OF FOUNDATION WALL SHALL BE PLACED AND COMPACTED IN EQUAL LIFTS AT THE SAME TIME TO ENSURE THE STABILITY OF THE WALL.

AA. WHERE INDICATED ON THE PLANS, PROVIDE CONTINUOUS PVC WATERSTOPS IN CONCRETE CONSTRUCTION JOINTS. THE CONTRACTOR SHALL HAVE RESPONSIBILITY FOR ENSURING THAT WATERSTOPS ARE CONTINUOUS AND MEET THE INTENT OF CREATING WATER–TIGHT CONSTRUCTION JOINTS. ALL PVC WATERSTOP SPLICES, CORNERS AND INTERSECTIONS SHALL BE TREATED IN ACCORDANCE WITH WATERSTOP MANUFACTURER's SPECIFICATION. ALL WATERSTOPS SHALL BE 6" FLAT, DUMBBELL PVC WITH CENTER BULB. SUBJECT TO APPROVAL, WATERSTOPS ON THIS PROJECT SHALL BE PROFILE No. 705 AS MANUFACTURED BY "GREENSTREAK PLASTIC PRODUCTS COMPANY, INC.; 3400 TREE COURT INDUSTRIAL BLVD.; ST. LOUIS, MISSOURI 63122" OR APPROVED EQUAL.

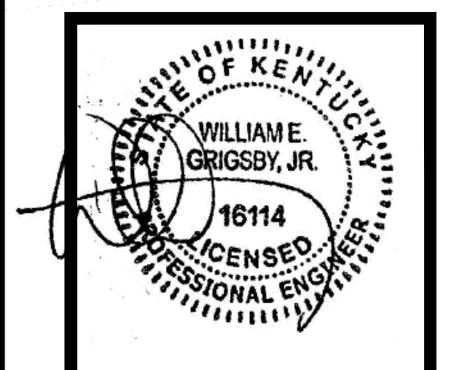
BB. WHERE INDICATED ON THE PLANS, AND AT CONTRACTOR'S OPTION TO REPLACE PVC WATERSTOPS, PROVIDE CONTINUOUS BENTONITE / BUTYL–RUBBER WATERSTOPS IN CONCRETE CONSTRUCTION JOINTS. THE CONTRACTOR SHALL HAVE RESPONSIBILITY FOR ENSURING THAT WATERSTOPS ARE CONTINUOUS AND MEET THE INTENT OF CREATING WATER–TIGHT CONSTRUCTION JOINTS. ALL BENTONITE / BUTYL–RUBBER WATERSTOP SPLICES, CORNERS & INTERSECTIONS SHALL BE TREATED IN ACCORDANCE WITH WATERSTOP MANUFACTURER's SPECIFICATION. SUBJECT TO APPROVAL, BENTONITE / BUTYL–RUBBER WATERSTOPS ON THIS PROJECT SHALL BE "WATERSTOP–RX" MANUFACTURED BY "MINERAL TECHNOLOGIES, INC.; CETCO; 2870 FORBS AVENUE; HOFFMAN ESTATES, IL 60192" OR APPROVED EQUAL.

CC. ALL KEYWAYS INDICATED ON THE DRAWINGS ARE NOMINAL 2x4 AND SHALL BE CONTINUOUS. SEE DETAIL E/S2.0 FOR ADDITIONAL INFORMATION.

DD. RUSTICATION STRIPS, CHAMFERS, DRIPS, MISCELLANEOUS EMBEDMENTS, ETC. SHALL BE PROVIDED IN ACCORDANCE WITH THE PLANS. REFERENCE THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. UNLESS INDICATED OTHERWISE ALL EXPOSED CONCRETE EDGES SHALL HAVE A $\frac{3}{4}$" CHAMFER.

EE. HOLES AND OPENINGS IN CONCRETE WALLS AND SLAB (GREATER THAN 10"ø FOR ROUND HOLES AND GREATER THAN 1'–0" ON ANY SIDE FOR SQUARE AND RECTANGULAR HOLES) FOR MECHANICAL, ELECTRICAL AND PLUMBING TRADES THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. SUCH HOLES AND OPENINGS ARE TO FORMED AND NOT CUT. STRENGTHENING OR ADDITIONAL REINFORCING REQUIRED BY THE STRUCTURAL ENGINEER SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER – RE: B/S2.0

SHERMAN CARTER BARNHART ARCHITECTS



SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

STRUCTURAL NOTES

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET
S0.1

1933 SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION TAYLORSVILLE, KENTUCKY

5. CONCRETE MASONRY (CMU) CONSTRUCTION:

A. ALL MASONRY CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ACI 530; ASCE 5; TMS 402; ACI 530.1; ASCE 6; AND TMS 602 (LATEST EDITION OF EACH).

B. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO MONITOR AND INSPECT MASONRY CONSTRUCTION AND TEST MASONRY MATERIALS ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE INSPECTOR AND COORDINATE BETWEEN THE MASON AND THE INSPECTOR TO ENSURE THAT ALL TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND AS REQUIRED BY THE KENTUCKY BUILDING CODE ARE COMPLETED AND DOCUMENTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOURS NOTICE TO THE INSPECTOR WHEN MASONRY INSPECTIONS ARE REQUIRED. THE DUTIES OF THE TESTING AND INSPECTION FIRM ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

C. ALL CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 psi BASED ON THE NET AREA AND SHALL CONFORM TO ASTM C90. THE CMU SUPPLIER SHALL SUBMIT CERTIFIED TEST REPORTS TO DOCUMENT THAT THE SPECIFIED VALUE HAS BEEN MET. ALL MORTAR FOR CMU CONSTRUCTION SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C270.

D. GROUT USED FOR CMU CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'g) OF 2,500 psi AND SHALL CONFORM TO ASTM C476. THE USE OF MORTAR FOR GROUTING BOND BEAMS AND CMU CELLS IS NOT ACCEPTABLE. ANY MASONRY CONSTRUCTION FOUND TO HAVE MORTAR INSTEAD OF GROUT IN CMU CELLS, BOND BEAMS AND / OR LINTELS WILL BE DEMOSLISHED, REMOVED AND RE-BUILT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT THE CONTRACTOR'S EXPENSE.

★ E. A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BETWEEN GROUT POURS FOR CMU CELLS BY STOPPING THE CMU WALL AT A CONTSTANT ELEVATION THROUGHOUT AND THEN HOLDING THE GROUT A MINIMUM OF 1½" AND A MAXIMUM OF 4½" BELOW THE MORTAR JOINT (EXCEPT AT TOP OF WALL). FOR CMU CELL GROUT POURS OVER FIVE-FEET (5') IN HEIGHT, A CLEANOUT SHALL BE PROVIDED IN THE BOTTOM CMU COURSE AT EVERY CELL TO BE GROUTED.

★★ F. THE MASON SHALL MECHANICALLY CONSOLIDATE AND RE-CONSOLIDATE THE GROUT IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS.

G. PROVIDE ADDITIONAL VERTICAL REINFORCEMENT FOR CMU WALLS AT EACH SIDE OF ALL WALL OPENINGS AS WELL AS AT ENDS AND CORNERS OF ALL WALLS – RE: D/S4.1 – PROVIDE ADDITIONAL VERTICAL REINFORCEMENT @ EACH SIDE OF ALL MASONRY CONTROL & EXPANSION JOINTS – RE: D/S4.0

H. PROVIDE A GROUTED SOLID MASONRY COLUMN (MC) UNDER STEEL BEAM BEARING PLATES ON NEW CMU WALLS – RE: 1/S4.1. MINIMUM MASONRY COLUMN UNDER STEEL BEAM BEARING SHALL BE MC816 FOR 8" CMU WALLS & MC1224 FOR 12" CMU WALLS – RE: B/S4.1

★ J. ALL VERTICAL REINFORCING BARS IN MASONRY WALLS SHALL BE PROPERLY LOCATED WITHIN THE CMU CELLS USING PREFABRICATED, (GALVANIZED STEEL or PLASTIC) REBAR POSITIONERS SUCH AS THOSE MANUFACTURED BY "DUR-O-WALL" (OR APPROVED EQUAL). REBAR POSITIONERS SHALL BE LOCATED AT 48" CENTERS ON EACH VERTICAL BAR.

K. ALL VERTICAL REINFORCING BARS FOR CMU WALLS SHALL BE FULLY DEVELOPED WITH MATCHING DOWELS OUT OF THE FOUNDATION WALL. ALL VERTICAL BARS SHALL BE CONTINUOUS TO TO THE TOP OF THE WALL.

★ L. THE DETAILER FOR THE REINFORCING STEEL FABRICATOR SHALL INDICATE ALL DOWELS OUT OF FOUNDATION REQUIRED FOR MATCHING MASONRY WALL VERTICAL REINFORCING ON THE FABRICATOR's REBAR PLACEMENT DRAWINGS FOR THE CONCRETE FOUNDATION WALLS.

M. CMU WALLS THAT ARE SHOWN ONLY ON THE ARCHITECTURAL DRAWINGS ("A" SHEETS) AND / OR CMU PARTITION WALLS WHERE NO REINFORCING IS SPECIFIED ON THE STRUCTURAL DRAWINGS ("S" SHEETS) SHALL HAVE HORIZONTAL JOINT REINFORCEMENT IN ACCORDANCE WITH NOTE "Q" BELOW.

N. PROVIDE REINFORCED MASONRY LINTEL BEAM PER DETAILS ACROSS THE TOP OF ALL CMU WALL OPENINGS. PROVIDE 8" Dp. CMU BOND BEAM ACROSS THE BOTTOM OF ALL CMU WALL OPENINGS (EXCEPT DOOR OPENINGS). RE: A/S4.0, B/S4.0 & SCHEDULE ON SHEET S4.0

Q. SEE CAST-IN-PLACE REINFORCED CONCRETE NOTES ON SHEET S0.1 FOR ADDITIONAL INFORMATION REGARDING REINFORCING STEEL SPECIFICATIONS.

P. GROUTED SOLID CMU BOND BEAMS SHOWN ON THE PLANS SHALL BE CONSTRUCTED USING "KNOCK-OUT-WEB" BOND BEAM UNITS EXCEPT AT THE HEAD OF WALL OPENINGS WHERE BOND BEAM LINTEL BLOCKS SHALL BE USED AS INDICATED.

Q. PROVIDE HORIZONTAL JOINT REINFORCEMENT FOR ALL CMU WALLS (INCLUDING WALLS NOT SHOWN ON STRUCTURAL DRAWINGS) CONSISTING OF PREFABRICATED "LADDER TYPE" REINFORCEMENT SUCH AS "DUR-O-WALL SEISMIC LADUR" OR APPROVED EQUAL AT 16" CENTERS (EVERY OTHER MORTAR JOINT) UNLESS NOTED OTHERWISE. PROVIDE PREFABRICATED "L's" and "T's" AT ALL WALL CORNERS AND INTERSECTIONS. SEE DETAIL D/S4.1 FOR ADDITIONAL INFORMATION.

R. PROVIDE CORNER BARS (C.B.) TO MATCH HORIZONTAL BOND BEAM REINFORCING IN ALL CMU BOND BEAMS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS. SEE DETAIL C/S4.0 FOR ADDITIONAL INFORMATION.

S. PROVIDE MASONRY CONTROL JOINTS IN ALL CMU WALLS WHERE INDICATED ON THE PLANS. IF NO CONTROL JOINTS ARE SHOWN ON THE PLANS, THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 24'-0" OR THREE (3) TIMES THE WALL HEIGHT (WHICHEVER IS LESS) FOR ALL INTERIOR AND EXTERIOR CMU WALLS. A MASONRY CONTROL JOINT SHALL ALSO BE PROVIDED WITHIN A MAXIMUM OF 12'-0" FROM ALL CORNERS FOR ALL INTERIOR AND EXTERIOR CMU WALLS. THE MASON SHALL COORDINATE THE LOCATIONS OF ALL CONTROL JOINTS WITH THE ARCHITECT. SEE DETAILS A/S4.0 & D/S4.0 FOR ADDITIONAL INFORMATION.

★ T. THE CONTRACTOR SHALL CONVENE A MEETING TO DISCUSS MASONRY DETAILS PRIOR TO THE START OF MASONRY CONSTRUCTION. MEETING ATTENDEES SHALL INCLUDE THE CONTRACTOR, THE MASON, THE ARCHITECT, THE INSPECTOR AND THE STRUCTURAL ENGINEER. THE OWNER SHALL BE INVITED TO THIS MEETING, HOWEVER, THE OWNER's ATTENDANCE OF THIS MEETING IS NOT REQUIRED.

★ U. WHERE SHRINKAGE CRACKS DEVELOP IN THE MASONRY WALLS, THE CONTRACTOR SHALL TREAT THOSE CRACKS WITH A LIQUID CRACK SEALER PRIOR TO APPLICATION OF FINAL FINISH COATING. SUBJECT TO APPROVAL, THE LIQUID CRACK SEALER SHALL BE "PLASTISEAL" MANUFACTURERED BY THE EUCLID CHEMICAL COMPANY; 9218 REDWOOD ROAD; CLEVELAND, OHIO 44110 (BASIS OF DESIGN). THE LIQUID CRACK SEALER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER's SPECIFICATIONS. THESE REPAIRS SHALL BE MADE AT NO COST TO THE OWNER.

V. CMU PARTITION WALLS THAT DO NOT EXTEND TO AND ATTACH TO THE STRUCTURE ABOVE (ROOF or FLOOR STRUCTURE) SHALL HAVE SEISMIC BRACING PER DETAILS A/S7.1.

6. STRUCTURAL STEEL:

A. DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), ALLOWABLE STRESS DESIGN (ASD) NINTH EDITION. DESIGN SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (2010 EDITION). DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (APRIL 14, 2010).

B. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO MONITOR STEEL ERECTION ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE SELECTED FIRM AND COORDINATE BETWEEN THE STEEL ERECTOR AND THE INSPECTOR TO INSURE THAT ALL REQUIRED TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS ARE COMPLETED AND DOCUMENTED. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOURS NOTICE TO THE INSPECTOR WHEN STRUCTURAL STEEL INSPECTIONS ARE REQUIRED. DUTIES OF THE TESTING AND INSPECTION FIRM ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

C. THE "TYPE OF CONSTRUCTION" FOR THIS PROJECT AS DEFINED BY AISC IS: TYPE 2 – SIMPLE FRAMING.

D. STRUCTURAL STEEL SHAPES (EXCLUDING WIDE FLANGES) AND PLATES SHALL CONFORM TO ASTM A36 EXCEPT AS NOTED OTHERWISE. ALL SQUARE AND RECTANGULAR HOLLOW STEEL (HSS) / TUBE STEEL (HSS) SECTIONS SHALL CONFORM TO ASTM A500, GRADE C. ALL ROUND HOLLOW STEEL SECTIONS (PIPE COLUMNS) SHALL CONFORM TO ASTM A500, GRADE C.

E. ALL WIDE FLANGE (W) SHAPES SHALL BE FABRICATED FROM MATERIAL CONFORMING TO ASTM A992, GRADE 50 (Fy = 50 ksi) UNLESS NOTED OTHERWISE. ALL HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE FABRICATED FROM MATERIAL CONFORMING TO ASTM A1085 OR A500, GRADE C (Fy = 50 ksi)

F. WHERE REQUIRED ON THE PLANS, ALL HIGH STRENGTH STEEL PLATES SHALL CONFORM TO ASTM A572, GRADE 50 (Fy = 50 ksi).

6. STRUCTURAL STEEL: (CONTINUED)

G. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325X. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GR 36 (FOR ANCHOR BOLTS LESS THAN 1" IN DIAMETER) OR ASTM F1554, GRADE 50 (FOR ANCHOR BOLTS EQUAL TO OR GREATER THAN 1" IN DIAMETER). THREADED ROD SHALL CONFORM TO ASTM A36 (FOR RODS LESS THAN 1" IN DIAMETER) OR ASTM A572, GRADE 50 (FOR RODS EQUAL TO OR GREATER THAN 1" IN DIAMETER). PROVIDED A SUFFICIENT QUANTITY OF COMPATIBLE NUTS AND FLAT WASHERS FOR ALL CONNECTIONS.

H. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTION UNLESS OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS. ALL FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS. BOLTED CONNECTIONS SHALL BE BEARING TYPE MADE USING ASTM A325X BOLTS IN CONFORMANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BEAM FRAMING CONNECTIONS MAY BE "SINGLE-PLATE SHEAR CONNECTIONS DETAILED IN ACCORDANCE WITH TABLE X OF THE AISC MANUAL. "USUAL GAGE" DIMENSIONS SHALL BE USED FOR LOCATING HOLES FOR BOLTS, EXPANSION ANCHORS, ETC. IN ALL ANGLE LEGS, BEAM FLANGES, ETC.

J. ALL WELDING SHALL BE IN CONFORMANCE WITH THE AMERICAN WELDING SOCIETY (AWS) CODES, STANDARDS AND SPECIFIICATIONS. ALL WELDS SHALL BE MADE USING E70XX ELECTRODES UNLESS NOTED OTHERWISE.

K. WHERE HEADED WELDING STUDS OR HEADED ANCHORS ARE SPECIFIED ON THE DRAWINGS, "NELSON STUDS" OF THE SIZE INDICATED SHALL BE AUTOMATICALLY WELDED TO THE BASE MATERIAL IN ACCORDANCE WITH THE STUD MANUFACTURER's SPECIFICATIONS. STUD LENGTH DENOTED WITH "AW" OR "A.W." ON THE DRAWINGS SHALL BE THE LENGTH OF STUD "AFTER WELDING". HEADED STUDS SHALL BE MADE FROM COLD-DRAWIN STEEL CONFORMING TO ASTM A108. SUBJECT TO APPROVAL, THE HEADED WELDING STUDS USED ON THIS PROJECT SHALL BE THE PRODUCTS OF "TRW, INC.; NELSON STUD WELDING DIVISION; 7900 WEST RIDGE ROAD; P. O. BOX 4019; ELYRIA, OHIO; 44036" (OR APPROVED EQUAL).

L. PROVIDE POSITIVE CAMBER AS NOTED ON THE PLANS. WHERE NO CAMBER IS SPECIFIED, THE RESIDUAL MILL CAMBER SHALL BE UPWARDS.

M. ALL EXPOSED ANGLE AND PLATE LINTELS FOR MASONRY CONSTRUCTION (BRICK VENEER) SHALL BE HOT-DIPPED GALVANIZED.

★★ N. THE STRUCTURAL STEEL "FAB SHOP" THAT PROVIDES THE STEEL ON THIS PROJECT MUST BE AISC OR AWS CERTIFIED. SEE SPECIFICATION SECTION 05120 FOR MORE INFORMATION.

7. OPEN-WEB STEEL BAR JOISTS:

A. DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STEEL BAR JOISTS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION.

B. SUBJECT TO APPROVAL, THE BAR JOISTS ON THIS PROJECT SHALL BE THE PRODUCTS OF "VULCRAFT, A DIVISION OF NUCOR CORP.; P. O. BOX 169; FORT PAYNE, ALABAMA 35967" (OR APPROVED EQUAL).

★ C. WHERE OSHA AND / OR THE STEEL JOIST INSTITUE SPECIFICATIONS REQUIRE ERECTION BOLTS FOR BAR JOISTS AND JOIST GIRDERS, THE BAR JOIST DETAILER SHALL INDICATE ERECTION BOLTS ON THE SHOP / ERECTION DRAWINGS. THE BAR JOIST DETAILER SHALL COORDINATE ERECTION BOLT LOCATIONS WITH THE STRUCTURAL STEEL DETAILER SO THAT BOLT HOLES ARE PROVIDED IN THE SUPPORTING STEEL STRUCTURE WHERE NECESSARY.

D. ALL BAR JOISTS SHALL BE WELDED TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WELDING SHALL BE IN ADDITION TO ANY ERECTION BOLTS REQUIRED BY OSHA AND / OR INDICATED ON THE SHOP DRAWINGS. SEE DETAIL G/S3.0 FOR ADDITIONAL INFORMATION.

E. ALL JOIST SHALL RECEIVE ONE SHOP COAT OF PRIMER EQUIVALENT TO SSPC 15-68T.

★ F. WHERE CONCENTRATED LOADS ARE TO BE SUPPORTED DIRECTLY FROM THE CHORDS OF BAR JOISTS, THE ATTACHMENT SHALL BE MADE IN SUCH A MANNER AND AT SUCH A LOCATION THAT LOCAL BENDING IS NOT INDUCED INTO JOIST CHORDS. WHEN THIS IS NOT POSSIBLE, THE JOISTS SHALL BE REINFORCED IN ACCORDANCE WITH SJI DETAILS. WHENEVER POSSIBLE, THE CONTRACTOR SHALL LOCATE CONCENTRATED LOADS ON THE JOIST SHOP DRAWINGS AND THE JOIST FABRICATOR SHALL REINFORCE THE JOISTS IN THE SHOP. SEE DETAIL A/S3.0 FOR ADDITIONAL INFORMATION.

★ H. THE CONTRACTOR SHALL FURNISH AND INSTALL BRIDGING FOR ALL STEEL BAR JOISTS. JOIST BRIDGING SIZE, CONFIGURATION, SPACING AND INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. ENDS OF JOISTS BRIDGING LINES THAT TERMINATE AT WALLS OR BEAMS SHALL BE EXTENDED AND ANCHORED THERETO BY AN APPROVED METHOD. THE STEEL JOIST DETAILER SHALL COORDINATE ATTACHMENT DETAILS WITH THE STRUCTURAL STEEL DETAILER. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLES, PLATES, CONCRETE EXPANSION ANCHORS, ETC. REQUIRED TO ATTACH JOIST BRIDGING TO WALLS AND / OR STRUCTURAL STEEL FRAMING AS SPECIFIED HEREIN AND DETAILED BY THE BAR JOIST FABRICATOR'S DETAILER. SEE DETAIL D/S3.0 FOR ADDITIONAL INFORMATION.

J. THE CONTRACTOR SHALL NOT ALLOW DUCTWORK, CONDUIT OR CEILINGS TO BE HUNG FROM JOIST BRIDGING.

K. ALL ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 20 psf. THE JOIST FABRICATOR SHALL SUBMIT UPLIFT DESIGN CALCULATIONS WITH THE JOIST SHOP DRAWINGS.

L. ALL BAR JOISTS USED ON THIS PROJECT SHALL BE PRODUCED BY A FAB SHOP THAT IS CERTIFIED BY THE STEEL JOIST INSTITUTE. SEE SPECIAL INSPECTIONS NOTES ON SHEET S0.3 FOR ADDITIONAL INFORMATION.

8. METAL FORM DECK & ROOF DECK:

A. DESIGN, DETAILING, FABRICATION AND INSTALLATION OF ALL METAL ROOF DECK ON THIS PROJECT SHALL CONFORM TO THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE (SDI). PARTICULAR ATTENTION IS DIRECTED TO THE SDI DIAPHRAGM DESIGN MANUAL (DDMD2), THE SDI MANUAL OF CONSTRUCTION WITH STEEL DECK (MOC1), THE SDI STANDARD PRACTICE DETAILS AND THE SDI DECK DAMAGE AND PENETRATION, LATEST EDITION OF EACH.

B. METAL ROOF DECK ON THIS PROJECT SHALL BE 1.5B18 "WIDE RIB" METAL DECK (U.N.O.). ATTACH THE 1.5B18 METAL ROOF DECK TO THE SUPPORTING STEEL STRUCTURE USING "HILTI X-HSN 24" or "HILTI X-ENP-19" POWDER ACTUATED FASTENERS IN A 36/5 FASTENER LAYOUT. SIDELAP FASTENERS SHALL BE "HILTI S-SLC 02 M HWH" AT 12" CENTERS (U.N.O. ON THE PLANS) – RE: E/S3.0

C. UNLESS NOTED OTHERWISE ON THE PLANS, THE 2nd FLOOR SHALL BE A 3.5" Thk. CONCRETE SLAB ON 0.6C28 METAL FORM DECK. ATTACH THE 0.6C28 METAL FORM DECK TO THE SUPPORTING STEEL STRUCTURE USING "HILTI X-HSN 24" or "HILTI X-ENP-19" POWDER ACTUATED FASTENERS IN A 30/4 FASTENER LAYOUT. SIDELAP FASTENERS SHALL BE "HILTI S-SLC 02 M HWH" AT 12" CENTERS (U.N.O. ON THE PLANS) – RE: F/S3.0

D. WHERE INDICATED ON THE PLANS, THE 2nd CORRIDOR FLOOR SHALL BE A 5" Thk. CONCRETE SLAB ON 2VLI16 COMPOSITE METAL FORM DECK. THE 2VLI16 METAL FORM DECK SHALL BE ATTACHED TO SUPPORTING STEEL STRUCTURE USING "HILTI X-HSN 24" or "HILTI X-ENP-19" POWDER ACTUATED FASTENERS IN A 36/4 FASTENER LAYOUT. SIDELAP FASTENERS SHALL BE "HILTI S-SLC 02 M HWH" AT 12" CENTERS (U.N.O. ON THE PLANS) – RE: A/S5.3

★ E. WELDING METAL DECK (ROOF DECK AND FORM DECK) TO THE SUPPORTING STEEL STRUCTURE AND WELDING SIDELAP ATTACHMENTS IS PROHIBITED ON THIS PROJECT.

★ F. ALL METAL ROOF DECK and METAL FORM DECK ON THIS PROJECT SHALL BE COLD-FORMED FROM SHEET STEEL CONFORMING TO ASTM A653 (MINIMUM TENSILE YIELD STRENGTH, Fy = 33 ksi).

G. ALL METAL DECK SHALL BE GALVANIZED PER ASTM A924 WITH A MINIMUM COATING CLASS OF G90 (Z275).

H. SUBJECT TO APPROVAL, THE METAL ROOF DECK AND METAL FORM DECK ON THIS PROJECT SHALL BE THE PRODUCTS OF "VULCRAFT, A DIVISION OF NUCOR CORP.; P. O. BOX 1000; ST. JOE, INDIANA 46785" (BASIS OF DESIGN – RE: NOTE No. 1.K ON SHEET S0.1 FOR ADDITIONAL INFORMATION).

J. SUBJECT TO APPROVAL, THE POWDER ACTUATED FASTENING SYSTEM SPECIFIED ABOVE SHALL BE THE "HILTI STEEL DECK FASTENING SYSTEM" MANUFACTURERED BY "HILTI; P. O. BOX 21148; TULSA, OKLAHOMA 4121" (BASIS OF DESIGN – RE: NOTE No. 1.K ON SHEET S0.1 FOR ADDITIONAL INFORMATION)

K. SUBJECT TO APPROVAL, SELF-DRILLING, SELF-TAPPING FASTENERS USED TO ATTACH METAL DECK TO SUPPORTING STEEL STRUCTURE ON THIS PROJECT SHALL BE "HILTI KWIK-PRO" SELF-DRILLING SCREWS OF THE SIZE SPECIFIED, MANUFACTURERED BY "HILTI; P. O. BOX 21148; TULSA, OKLAHOMA 74121" (BASIS OF DESIGN – RE: NOTE No. 1.K ON SHEET S0.1 FOR ADDITIONAL INFORMATION).

8. METAL FORM & ROOF DECK: (CONTINUED)

L. SUBJECT TO APPROVAL, THE ALTERNATE POWDER ACTUATED FASTENERS USED TO ATTACH METAL DECK TO SUPPORTING STEEL STRUCTURE ON THIS PROJECT SHALL CONSIST OF THE "DIRECT FASTENING" SYSTEM, MANUFACTURERED BY "HILTI; P. O. BOX 21148; TULSA, OKLAHOMA 74121" (BASIS OF DESIGN – RE: NOTE No. 1.K ON SHEET S0.1 FOR ADDITIONAL INFORMATION).

★ M. WHERE POSSIBLE, THE METAL ROOF DECK SHALL BE CONTINUOUS OVER THREE (3) OR MORE SUPPORTS.

N. THE CONTRACTOR SHALL FURNISH AND INSTALL THE METAL ROOF DECK MANUFACTURER's STANDARD METAL ROOF DECK ACCESSORIES (e.g. VALLEY PLATES, RIDGE PLATES, FILLER PLATES, FLAT PLATES, CLOSURE STRIPS, ETC.) WHERE APPLICABLE.

P. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL REQUIRED ROOF AND FLOOR OPENINGS WITH MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER TRADE SUB-CONTRACTORS. PROVIDE AN ANGLE FRAME (L4x4x ¼) FOR ALL OPENINGS GREATER THAN 1'-0" x 1'-0". INDICATE OPENING LOCATIONS AND SIZES ON THE SHOP DRAWINGS – RE: C/S3.0

9. LIGHT GAUGE METAL FRAMING:

A. ALL LIGHT-GAUGE STRUCTURAL METAL FRAMING (METAL STUDS, JOISTS AND ACCESSORIES) SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS. LIGHT-GAUGE METAL FRAMING SHALL BE CONSTRUCTED USING THE PRODUCTS OF "DEITRICH METAL FRAMING (A WORTHINGTON INDUSTRIES COMPANY); 500 GRANT STREET. SUITE 2226; PITTSBURGH, PA 15219" (OR APPROVED EQUAL).

B. ALL LIGHT-GAUGE METAL FRAMING SHALL BE DESIGNED, DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI), LATEST EDITION.

C. ALL LIGHT-GAUGE METAL FRAMING SHALL BE COLD-FORMED FROM CORROSION-RESISTANT STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM1003. STRUCTURAL STUDS AND JOISTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 ksi. TRACK RUNNERS AND OTHER ACCESSORIES SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 ksi.

D. ALL LIGHT-GAUGE METAL FRAMING SHALL BE ZINC COATED (GALVANIZED) IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A1003 – G60.

E. CMU PARTITION WALLS THAT DO NOT EXTEND TO AND ATTACH TO THE STRUCTURE ABOVE (ROOF or FLOOR STRUCTURE) SHALL HAVE SEISMIC BRACING PER DETAILS A/S5.1.

F. THE LIGHT-GAUGE METAL FRAMING DETAILS SHOWN ON THE CONTRACT DOCUMENTS ARE FOR CONCEPTUAL PURPOSES ONLY. THE ACTUAL DETAILS OF CONSTRUCTION FOR THE LIGHT-GAUGE METAL FRAMING SYSTEM SHALL BE THE RESPONSIBILITY OF THE LIGHT-GAUGE METAL COMPONENT SUPPLIER. THE LIGHT-GAUGE METAL COMPONENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ALL LIGHT-GAUGE METAL FRAMING (INCLUDING METAL STUDS, METAL JOISTS, AS WELL AS ALL OTHER MISCELLANEOUS ITEMS AND ACCESSORIES, ETC. NECESSARY TO COMPLETE THE LIGHT-GAUGE METAL FRAMING SYSTEM INDICATED ON THE CONTRACT DOCUMENTS) TO THE ARCHITECT FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE CERTIFIED, STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE COMMONWEALTH OF KENTUCKY AND EXPERIENCED IN STRUCTURAL ENGINEERING.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

STRUCTURAL NOTES

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S0.2

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SPECIAL INSPECTIONS

GENERAL

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STRUCTURAL QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR's ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER AND SHALL BE APPROVED BY THE BUILDING OFFICIAL. THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL SUBMIT THE NAME AND QUALIFICATIONS OF ITS PERSONNEL THAT WILL ACT AS THE SPECIAL INSPECTOR. IF MULTIPLE STRUCTURAL TESTING/INSPECTION AGENCIES ARE USED, SUBMIT THE INFORMATION STATED ABOVE FOR EACH FIRM ALONG WITH A STATEMENT OF THE SPECIAL INSPECTION RESPONSIBILITIES FOR EACH FIRM.

THE CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFOMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED, RE-CONSTRUCTED, AND RE-INSPECTED AT THE CONTRACTOR's EXPENSE.

THE CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

1. PROVIDE A COPY OF THE CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR's EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

★ WHEN THE CONTRACTOR CALLS FOR SPECIAL INSPECTIONS AND IS NOT READY WHEN THE INSPECTOR ARRIVES ON SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR THE INSPECTOR's WASTED TIME.

SPECIAL INSPECTOR RESPONSIBILITIES

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. AT THE CONCLUSION OF THE PROJECT THE SPECIAL INSPECTOR SHALL SUBMIT A WRITTEN STATEMENT THAT THE SPECIAL INSPECTIONS DURING CONSTRUCTION HAVE COMPLIED WITH THIS STRUCTURAL QUALITY ASSURANCE PLAN AND THAT ANY DISCREPENCIES NOTED DURING CONSTRUCTION HAVE BEEN CORRECTED. ANY AND ALL DISCREPENCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR, THE CONSTRUCTION MANAGER AND THE ARCHITECT IMMEDIATELY.

SOILS

THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY THAT THE STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT.
2. OBSERVE PROOFROLLING
3. PERFORM FIELD DENSITY TESTS TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED.
4. VERIFY FOUNDATION BEARING CAPACITY.
5. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

CAST IN PLACE CONCRETE

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL TEST REPORTS.
2. SUBMIT MANUFACTURER's DATA FOR TENSILE AND COMPRESSIVE SPLICERS.
3. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF EACH CONCRETE MIX DESIGN. PROVIDE COPIES OF EACH CONCRETE MIX DESIGN TO THE SPECIAL INSPECTOR. NCLUDE THE FOLLOWING:
   - A. TYPE AND QUANTITIES OF MATERIALS
   - B. SLUMP
   - C. AIR CONTENT
   - D. FRESH UNIT WEIGHT
   - E. AGGREGATES SIEVE ANALYSIS
   - F. DESIGN COMPRESSIVE STRENGTH
   - G. LOCATION OF PLACEMENT IN STRUCTURE
   - H. METHOD OF PLACEMENT
   - J. METHOD OF CURING
   - K. SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS
4. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT THE MATERIALS MEET THE REQUIRMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
5. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY GRADE, QUANTITY, LOCATION, AND PLACEMENT OF REINFORCING STEEL PRIOR TO CONCRETE PLACEMENT.
2. EXAMINE CONCRETE IN TRUCK TO VERIFY THAT CONCRETE APPEARS PROPERLY MIXED.
3. PERFORM A SLUMP TEST AS DEEMED NECESSARY FOR EACH CONCRETE LOAD. RECORD IF WATER OR ADMIXTURES ARE ADDED TO THE CONCRETE AT THE JOB SITES. PERFORM ADDITIONAL SLUMP TESTS AFTER JOB SITE ADJUSTMENTS.
4. MOLD FOUR SPECIMENS PER SET FOR COMPRESSIVE STRENGTH TESTING; ONE SET FOR EACH 75 CUBIC YARDS OF EACH MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH SET MOLDED, RECORD:
   - A. SLUMP
   - B. AIR CONTENT
   - C. UNIT WEIGHT
   - D. TEMPERATURE, AMBIENT AND CONCRETE
   - E. LOCATION OF PLACEMENT
   - F. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION OF ADMIXTURERS, ETC.

   PERFORM ONE 7-DAY AND TWO 28-DAY COMPRESSIVE STRENGTH TESTS. (USE ONE AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTH'S DO NOT APPEAR ADEQUATE.)
5. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE AND CONCRETE PLACEMENT, NAME OF THE 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.
6. MONITOR PLACEMENT OF STRUCTURAL LIGHTWEIGHT CONCRETE PLACED BY PUMPING.
7. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

★★ POST-INSTALLED ANCHOR BOLTS & REINFORCING STEEL IN CONCRETE & CONCRETE MASONRY

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MANUFACTURER's DATA FOR CONCRETE EXPANSION ANCHORS.
2. SUBMIT MANUFACTURER's DATA FOR ADHESIVE ANCHORING EPOXY.
3. SUBMIT MANUFACTURER'S DATA FOR MECHANICAL CONCRETE ANCHORS (CONCRETE SCREWS)
4. PROVIDE ICC EVALUATION SERVICE REPORT TO SPECIAL INSPECTOR FOR EACH TYPE OF POST INSTALLED ANCHOR USED ON THIS PROJECT.
5. NOTIFY THE INSPECTOR 24-HOURS IN ADVANCE THAT POST INSTALLED ANCHORS AND / OR REINFORCING STEEL ARE SCHEDULED TO BE INSTALLED AND REQUIRE INSPECTION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY THAT INSTALLERS HAVE BEEN TRAINED BY A REPRESENTATIVE OF THE ANCHOR MANUFACTURER.
2. INSPECT ALL POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ICC EVALUATION SERVICE REPORT FOR THAT INDIVIDUAL ANCHOR.
3. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE MANUFACTURER AND / OR KENTUCKY BUILDING CODE.

NON-SHRINK GROUT UNDER STEEL BASE PLATES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL TEST REPORTS.
2. SUBMIT GROUT MANUFACTURER's DATA FOR TENSILE AND COMPRESSIVE SPLICERS.
3. SUBMIT A CERTIFICATION THE GROUT EACH MANUFACTURER OR SUPPLIER STATING THAT THE MATERIALS MEET THE REQUIRMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. COMPRESSIVE STRENGTHS TEST PER ASTM C109.
2. NUMBER OF TESTS: ONE TEST FOR EACH TEN BAGS OF GROUT USED OR MINIMUM OF ONE TEST FOR EACH DAY OF GROUTING. (NOTE: SEVEN GROUT CUBES ARE REQUIRED FOR ONE TEST – ONE CUBE TO BE USED AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTH'S DO NOT APPEAR ADEQUATE.)
3. CUBE SIZES: 2-INCH x 2-INCH
4. TEST SCHEDULE: ONE CUBE AT 3 DAYS, TWO CUBES AT 7 DAYS, THREE CUBES AT 28 DAYS.
5. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

CONCRETE MASONRY

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT THE FOLLOWING MATERIALS COMPLY WITH THE SPECIFIED ASTM OR ACI STANDARDS.
   - A. CONCRETE MASONRY UNITS
   - B. MORTAR MATERIALS, PORTLAND CEMENT, HYDRATED LIME, AND AGGREGATES
   - C. GROUT MATERIALS: PORTLAND CEMENT AND AGGREGATES
   - D. JOINT REINFORCEMENT STEEL
   - E. REINFORCING STEEL
2. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL USED IN CONCRETE MASONRY WALLS.

THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS, MORTAR, AND COARSE GROUT FOR EVERY 5,000 SQ. FT. OF SURFACE AREA AS FOLLOWS:
   - A. THREE (3) CONCRETE MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140.
   - B. SIX (6) MORTAR CUBE SPECIMENS SHALL BE TESTED, THREE (3) AT 7-DAYS AND THREE (3) AT 28-DAYS, IN ACCORDANCE WITH ASTM C109
   - C. FOUR (4) COARSE GROUT SPECIMENS SHALL BE TESTED, TWO (2) AT 7-DAYS AND TWO (2) AT 28-DAYS, IN ACCORDANCE WITH ASTM C1019
   - D. IN LIEU OF INDIVIDUAL TESTS OF MASONRY UNITS, MORTAR, AND GROUT, PERFORM ONE (1) PRISM TEST (WHICH CONSISTS OF THREE PRISMS) IN ACCORDANCE WITH ASTM E447
1. PROVIDE CONTINUOUS INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
   - A. CLEANLINESS OF GROUT SPACE PRIOR TO GROUTING
   - B. PLACEMENT OF GROUT IN REINFORCED CELLS
   - C. CONSOLIDATION AND RE-CONSOLIDATION OF GROUT
   - D. PREPARATION OF REQUIRED GROUT AND MORTAR SPECIMENS
   - E. WELDING OF REINFORCING BARS
3. PROVIDE PERIODIC INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
   - A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT
   - B. CONSTRUCTION OF MORTAR JOINTS
   - C. QUANTITY, SIZE, LOCATION, AND SUPPORT OF REINFORCING STEEL
   - D. QUANTITY, SIZE, AND PLACEMENT OF HORIZONTAL JOINT REINFORCEMENT
   - E. TYPE, SIZE AND LOCATION OF ANCHORS
   - F. PROTECTION OF MASONRY DURING COLD OR HOT WEATHER.
4. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

STRUCTURAL STEEL

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

1. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHIN SPECIAL INSPECTIONS.
2. IF THE FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR's ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR's SCOPE OF WORK.
3. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.
4. SUBMIT MANUFACTURER's CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING

1. PROVIDE CONTINUOUS INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
   - A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. ULTRASONICALLY INSPECT 100% OF THE COMPLETE PENETRATION WELDS.
   - B. MULTI-PASS FILLET WELDS AND SINGLE-PASS FILLET WELDS GREATER THAN $\frac{5}{16}$"
2. PROVIDE PERIODIC INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
   - A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS
   - B. MATERIAL VERIFICATION OF WELD FILLER MATERIAL
   - C. VERIFICATION OF ANCHOR ROD SIZE, CONFIGURATION, AND EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE
   - D. VISUALLY INSPECT ALL BOLTED CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRIOR TO VISUAL AND PHYSICAL TESTING, TENSION TESTING USING A CALIBRATION DEVICE (SKIDMORE-WILHELM) MUST INDICATE TENSIONS AT LEAST 0.5% IN EXCESS OF THE AISC MINIMUM. STRUCTURAL STEEL ERECTOR SHALL SUPPLY THE TENSION CALIBRATION DEVICE. TEST A MINIMUM OF 10% OF THE BOLTED CONNECTIONS
   - E. VISUALLY INSPECT ALL FIELD-WELDED CONNECTIONS. VISUAL INSPECTION OF WELDED JOINTS INCLUDES PERIODIC EXAMINATION OF FITUP
   - F. VERIFY STUD SHEAR CONNECTOR SPACING AND LOCATION. VISUALL INSPECT WELDING OF STUD SHEAR CONNECTORS.
3. WELD INSPECTIONS TO INCLUDE THE FOLLOWING
   - A. WELD INSPECTIONS SHALL BE IN ACCORDANCE WITH AWS D1.1
   - B. REVIEW AND VERIFY COMPLIANCE OF WRITTEN WELDING PROCEDURES WITH AWS REQUIREMENTS
   - C. VERIFY THAT WELDING PROCEDURES ARE BEING ADHERED TO DURING FIELD WELDING.
   - D. VERIFY WELDER QUALIFICATIONS
   - E. USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF WELDS. THE INSPECTOR MAY USE GAMMA RAY, MAGNAFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUAL INSPECTION THAT THE SPECIAL INSPECTOR MAY DEEM NECESSARY TO BE ASSURED OF THE ADEQUACY OF THE WELD
   - F. KEEP A SYSTEMATIC RECORD OF ALL WELDS THAT INCLUDES, IN ADDITION TO OTHER REQUIRED RECORDS, THE IDENTIFICATION MARKS OF WELDERS, A LIST OF DEFECTIVE WELDS, AND THE MANNER OF CORRECTING DEFECTS.
4. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

STEEL JOIST

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.
2. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHIN SPECIAL INSPECTIONS.
3. IF THE FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR's ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR's SCOPE OF WORK.

THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

1. VISUAL INSPECTION OF BOLTED AND WELDED CONNECTIONS.
2. VERIFY INSTALLATION OF BRIDGING BRACES.
3. VERIFY CONNECTIONS FOR TOP AND BOTTOM CHORDS.
4. VERIFY REINFORCEMENT OF MEMBERS FOR CONCENTRATED LOADS.
5. VERIFY PROPER BEARING.
6. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

STEEL DECK

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.
2. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHIN SPECIAL INSPECTIONS.
3. IF THE FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR's ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR's SCOPE OF WORK.

THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

1. VERIFY GENERAL ALIGNMENT AND DECK LAP.
2. VERIFY WELDS FOR SIZE AND PATTERN.
3. VERIFY SPACING AND TYPE OF SIDELAP ATTACHMENTS.
4. VERIFY INSTALLATION OF DECK CLOSURES.

COLD FORMED (LIGHT-GAUGE) FRAMING

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.

THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING

1. VERIFY THAT GENERAL ARRANGEMENT AND INSTALLATION OF LIGHT-GAUGE STEEL FRAMING IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. VERIFY THAT FRAMING MEMBERS AND CONNECTIONS ARE NOT DAMAGED.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

STRUCTURAL NOTES
SPECIAL INSPECTIONS

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

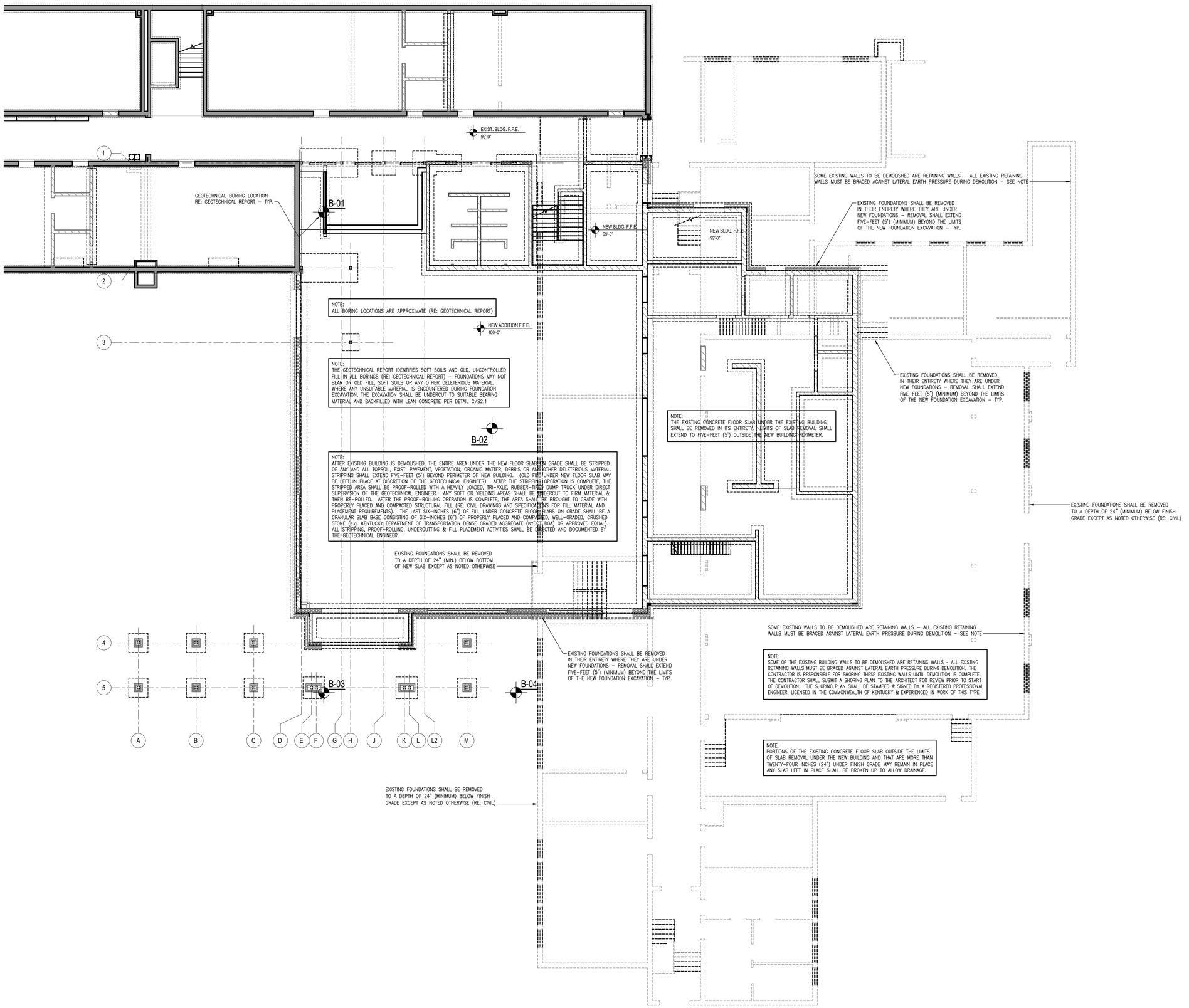
REVISIONS

No.	Description	Date

SHEET

S0.3

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



PLAN DETAIL

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

A S1.0

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGGS, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KY

DEMOLITION and EARTHWORK NOTES

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs/DEM
CHECKED	WEG/BKL

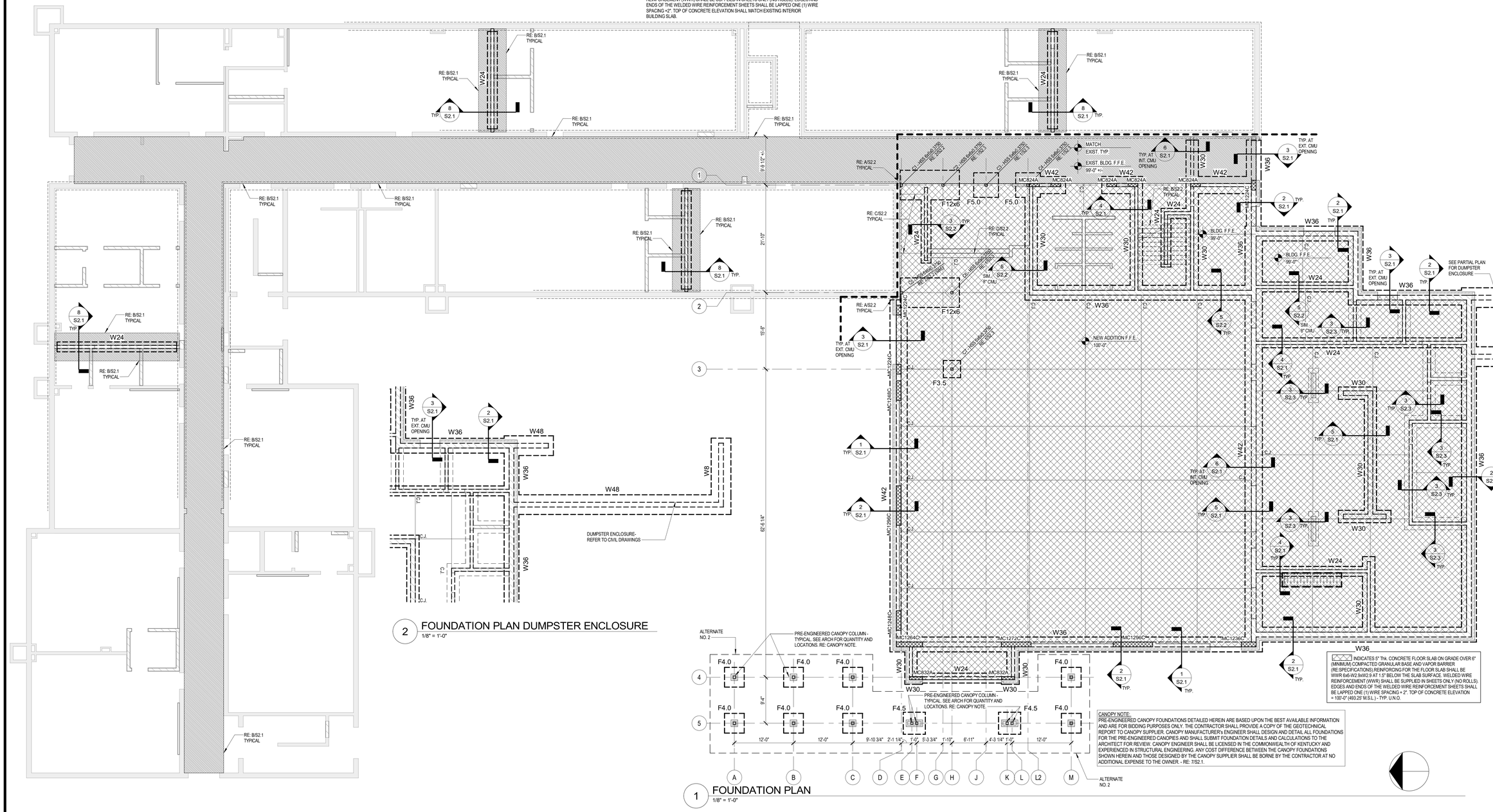
REVISIONS

No.	Description	Date

SHEET

S1.0

DENOTES AREA TO REMOVE EXISTING SLAB AND PROVIDE NEW (MATCH EXISTING SLAB THICKNESS - MINIMUM 4" THK.) CONCRETE SLAB OVER 6" THK. (MIN.) BASE OF COMPACTED GRANULAR MATERIAL AND VAPOR BARRIER (RE: SPECIFICATIONS) OVER PROPERLY PLACED AND COMPACTED STRUCTURAL FILL - REINFORCE THE SLAB w/WWR 6x6-W2.9xW2.9 AT 1.5" BELOW THE SLAB SURFACE. WELDED WIRE REINFORCEMENT (WWR) SHALL BE SUPPLIED IN SHEETS ONLY (NO ROLLS). EDGES AND ENDS OF THE WELDED WIRE REINFORCEMENT SHEETS SHALL BE LAPPED ONE (1) WIRE SPACING +2". TOP OF CONCRETE ELEVATION SHALL MATCH EXISTING INTERIOR BUILDING SLAB.



CANOPY NOTE:
PRE-ENGINEERED CANOPY FOUNDATIONS DETAILED HEREIN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE A COPY OF THE GEOTECHNICAL REPORT TO CANOPY SUPPLIER. CANOPY MANUFACTURER'S ENGINEER SHALL DESIGN AND DETAIL ALL FOUNDATIONS FOR THE PRE-ENGINEERED CANOPIES AND SHALL SUBMIT FOUNDATION DETAILS AND CALCULATIONS TO THE ARCHITECT FOR REVIEW. CANOPY ENGINEER SHALL BE LICENSED IN THE COMMONWEALTH OF KENTUCKY AND EXPERIENCED IN STRUCTURAL ENGINEERING. ANY COST DIFFERENCE BETWEEN THE CANOPY FOUNDATIONS SHOWN HEREIN AND THOSE DESIGNED BY THE CANOPY SUPPLIER SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. - RE: 7/S2.1.

2 FOUNDATION PLAN DUMPSTER ENCLOSURE
1/8" = 1'-0"

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

NOTES:

1. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES AND DEFINITIONS OF ABBREVIATIONS USED THROUGHOUT THESE DRAWINGS.

2. SEE SHEET S0.1 FOR STRUCTURAL DESIGN CRITERIA.

3. SEE SHEET S0.1 FOR GEOTECHNICAL DATA AND REQUIREMENTS ALONG WITH STRUCTURAL NOTES PERTAINING TO THE TESTING AND PREPARATION OF THE SUBGRADE FOR CONCRETE FLOOR SLABS ON GRADE AND BEARING STRATA FOR CONTINUOUS WALL FOOTINGS AND ISOLATED COLUMN FOOTINGS.

4. SEE SHEET S0.1 FOR STRUCTURAL NOTES PERTAINING TO CONCRETE MIX DESIGN, REINFORCING STEEL, AND REINFORCED CONCRETE CONSTRUCTION.

5. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO STRUCTURAL STEEL CONSTRUCTION, AS WELL AS CONSTRUCTION UTILIZING OPEN-WEB BAR JOIST AND METAL DECK.

6. SEE SHEET S0.3 FOR NOTES PERTAINING TO THE SPECIAL INSPECTIONS REQUIRED ON THIS PROJECT BY CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE (KBC).

7. "F#" DENOTES COLUMN FOOTING. SEE SHEET S2.0 FOR THE "ISOLATED COLUMN FOOTING SCHEDULE".

8. "W#" DENOTES WALL FOOTING. SEE SHEET S2.0 FOR THE "CONTINUOUS WALL FOOTING SCHEDULE.

9. "P#" DENOTES A REINFORCED CONCRETE PIER - RE "B/S2.3".

10. "C.J." DENOTES A SLAB "CONTROL JOINT" OR "CONSTRUCTION JOINT" - RE: "A/S2.0".

11. "F.S." DENOTES A FOOTING STEP - RE: "G/S2.0" - THE CONTRACTOR SHALL FIELD LOCATE AND FIELD DETERMINE REQUIRED DEPTH OF FOOTING STEPS BASED ON CONDITIONS ENCOUNTERED IN THE FIELD.

12. "MCXXXZ" DENOTES A MASONRY COLUMN OF "XXX" SIZE AND "Z" TYPE - RE: "B/S4.1".

13. PROVIDED ADDITIONAL REINFORCING AROUND OPENINGS IN ALL STRUCTURAL (REINFORCED) CONCRETE WALLS AND SLABS - RE: "B/S2.0".

14. PROVIDE ADDITIONAL REINFORCING REQUIRED AT ALL RE-ENTRANT CORNERS IN CONCRETE FLOOR SLABS ON GRADE - RE: "C/S2.0".

15. PROVIDE CORNER BARS IN CONCRETE WALLS AT ALL CORNERS AND WALL INTERSECTIONS - RE: "D/S2.0".

16. PROVIDE CORNER BARS IN CMU BOND BEAMS AT ALL CORNERS AND WALL INTERSECTIONS - RE: "C/S4.0".

17. ALL KEYWAYS INDICATED IN THE SECTIONS AND DETAILS SHALL BE 2x4 UNLESS NOTED OTHERWISE RE: "E/S2.0".

18. THE FIRST FLOOR CONCRETE FLOOR SLAB ON GRADE FOR THIS PROJECT SHALL BE CONSTRUCTED AT FINISH FLOOR ELEVATION TO MATCH EXISTING. RE: CIVIL DRAWINGS.

19. ALL FOOTING ELEMENTS SHALL BEAR ON COMPOTENT ROCK OR LIEN CONCRETE FILL TO ROCK. IF SUITABLE ROCK IS NOT ENCOUNTERED ATHE SPECIFIED BOTTOM OF FOOTING ELEVATION, THE CONTRACTOR SHALL TAKE REMEDIAL STEPS OUTLINED IN DETAIL "C/S2.1".

20. ALL FOUNDATIONS FOR THIS PROJECT SHALL BE CONSTRUCTED AT THE TOP OF FOOTING ELEVATIONS INDICATED ON THE PLANS - "T/FTG. EL." SHOWN ON PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL COORDINATE w/SITE DRAWINGS AND INFORM ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.

21. EXTERIOR WALL AND COLUMN FOUNDATIONS FOR THIS PROJECT SHALL BE CONSTRUCTED SUCH THAT THE TOP OF FOOTING ELEVATION IS 24" (MIN.) BELOW FINISH FLOOR ELEVATION OR 18" (MIN.) BELOW ADJACENT FINISH GRADE ELEVATIONS, WHICHEVER IS LOWER.

22. WHERE TOP OF FOOTING ELEVATION IS NOT PROVIDED, INTERIOR WALL FOUNDATIONS SHALL BE CONSTRUCTED SUCH THAT THE TOP OF FOOTING ELEVATION IS 8" (MIN.) BELOW FINISH FLOOR ELEVATION. INTERIOR WALL FOUNDATIONS THAT TIE INTO EXTERIOR WALL FOUNDATIONS SHALL BE CONSTRUCTED AT THE SAME TOP OF FOOTING ELEVATION AS THE EXTERIOR FOOTINGS. A FOOTING STEP (F.S.) SHALL BE PROVIDED TO TIE INTERIOR TO EXTERIOR FOOTING. AT CONTRACTOR's OPTION, INTERIOR WALL FOUNDATIONS MAY BE LOWERED AS NECESSARY FOR UNDERGROUND UTILITY CLEARANCE - RE: "J/S2.0". A FOOTING STEP SHALL BE PROVIDED AS REQUIRED TO TIE EXTERIOR FOUNDATIONS AS WELL AS OTHER FOOTINGS BEARING AT DIFFERENT DEPTHS - RE: "G/S2.0". THE CONTRACTOR SHALL FIELD LOCATE ALL FOOTING STEPS AND INDICATE STEP LOCATIONS ON THE FOUNDATION REINFORCING STEEL SHOP DRAWINGS.

23. THE CONCRETE FLOOR SLAB ON GRADE FOR THIS PROJECT SHALL BE 5" Thick OVER 6" (MIN.) COMPACTED GRANULAR BASE AND VAPOR BARRIER (RE: SPECIFICATIONS) - REINFORCING FOR THE CONCRETE FLOOR SLAB ON GRADE SHALL BE WWR 6x6-W2.9xW2.9 LOCATED AT 1 1/2" BELOW SLAB SURFACE. THE WELDED WIRE REINFORCEMENT (WWR) SHALL BE SUPPLIED IN SHEETS ONLY (NO ROLLS). WWR SHALL BE PROPERLY LOCATED AND SUPPORTED USING CHAIRS, BAR SUPPORTS OR BOLSTERS. EDGES AND ENDS OF THE WELDED WIRE REINFORCEMENT SHEETS SHALL BE LAPPED ONE (1) WIRE SPACING + 2".

24. PROVIDE BOND BREAKER CONSISTING OF TWO (2) LAYERS OF 15# CONSTRUCTION FELT OR SELF-ADHERED MEMBRANE BOND BREAKER BETWEEN CONCRETE FLOOR SLABS ON GRADE AND ALL CONCRETE AND CMU FOUNDATION WALLS - "A/S2.0".

25. THE CONTRACTOR SHALL COORDINATE UNDERGROUND UTILITIES WITH FOOTINGS AND FOUNDATION WALLS AND ENSURE THAT ADEQUATE CLEARANCE IS PROVIDED BETWEEN UTILITIES AND FOUNDATION ELEMENTS - RE" "J/S2.0" FOR ADDITIONAL INFORMATION WHERE PIPES, CONDUITS INTERFERE WITH FOUNDATION WALLS/FOOTINGS OR COLUMN FOUNDATIONS.

26. SEE DETAIL "B/S3.1" FOR ANCHOR BOLT DETAILS.

27. SEE DETAIL "E/S3.1" FOR COLUMN BASE PLATE DETAILS.

28. TUBE STEEL (HSS) COLUMNS FOR THIS PROJECT SHALL CONFORM TO ASTM A500 GRADE C. SEE THE FOUNDATION PLAN FOR COLUMN SIZES.

29. THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS (M.C.J.) IN ALL CMU WALLS. MASONRY CONTROL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NOTE No. 5-S ON SHEET S0.2 AS WELL AS DETAILS "A/S4.0" AND "D/S4.0". CONTRACTOR SHALL COORDINATE MCJ LOCATIONS WITH ARCHITECTURAL DRAWINGS.

30. ALL CMU WALLS (INCLUDING THOSE NOT SHOWN ON STRUCTURAL DRAWINGS) SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCING AS SPECIFIED IN NOTE No. 5.Q ON SHEET S0.2.

31. ALL VERTICAL REINFORCING BARS FOR MASONRY (CMU) CONSTRUCTION (CMU WALLS AND COLUMNS) SHALL BE CONTINUOUS FROM TOP OF FOUNDATION TO TOP OF WALL AND SHALL BE FULLY DEVELOPED WITH MATCHING DOWELS OUT OF THE FOUNDATION (U.N.O.). BAR SPLICES FOR CMU CONSTRUCTION SHALL BE FORTY-EIGHT (48) DIAMETERS.

32. PROVIDE ADDITIONAL VERTICAL REINFORCING IN GROUTED SOLID CMU CELLS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS AS WELL AS AT THE END OF ALL WALLS AND AT ALL WALL OPENING JAMBS RE: "D/S4.1" - PROVIDE ADDITIONAL DOWELS OUT OF FOUNDATION TO MATCH EXTRA BARS.

33. FLOOR DRAINS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND INSTALLED PER M.E.P. DRAWINGS. SLOPE SLABS AS INDICATED WHERE SHOWN ON THE ARCHITECTURAL DRAWINGS.

34. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. DIMENSIONAL DISCREPANCIES SHALL BE RECTIFIED PRIOR TO STARTING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

35. PROVIDE SLAB RECESS PER DETAIL "F/S2.0" AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

FOUNDATION PLAN

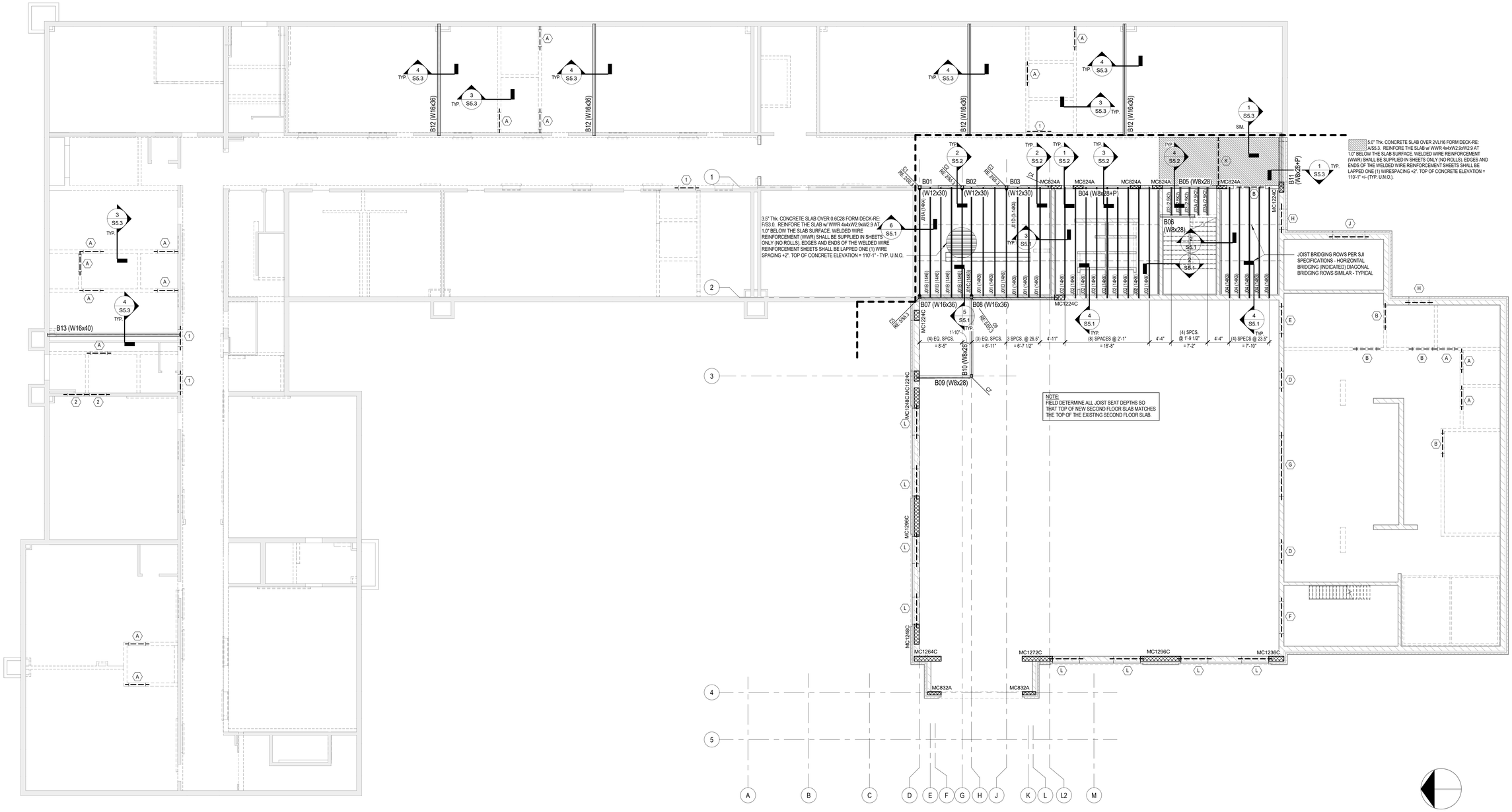
JOB NO.	1933
DATE	12/16/2019
DRAWN	DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S1.1



1 SECOND FLOOR FRAMING
1/8" = 1'-0"

NOTES:
1. SEE SHEET S0.1 FOR GENERAL NOTES AND FOR DEFINITIONS OF ABBREVIATIONS USED THROUGHOUT THESE DRAWINGS.

2. SEE SHEET S0.1 FOR STRUCTURAL DESIGN CRITERIA.

3. SEE SHEET S0.1 FOR GEOTECHNICAL DATA AND REQUIREMENTS ALONG WITH STRUCTURAL NOTES PERTAINING TO THE TESTING AND PREPARATION OF THE SUBGRADE FOR CONCRETE FLOOR SLABS ON GRADE AND BEARING STRATA FOR CONTINUOUS WALL FOOTINGS AND ISOLATED COLUMN FOUNDATIONS.

4. SEE SHEET S0.1 FOR STRUCTURAL NOTES PERTAINING TO CONCRETE MIX DESIGN, REINFORCING STEEL AND REINFORCED CONCRETE CONSTRUCTION.

5. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO REINFORCED CONCRETE MASONRY (CMU) CONSTRUCTION.

6. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO STRUCTURAL STEEL CONSTRUCTION, AS WELL AS CONSTRUCTION UTILIZING OPEN-WEB STEEL BAR JOISTS, METAL ROOF DECK AND METAL FORM DECK.

7. SEE SHEET S0.3 FOR NOTES PERTAINING TO THE SPECIAL INSPECTIONS REQUIRED ON THE PROJECT BY CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE (KBC).

8. SEE DETAIL A/S3.0 FOR ADDITIONAL INFORMATION REGARDING SUPPORTING CONCENTRATED LOADS ON OPEN-WEB STEEL BAR JOISTS.

9. SEE DETAIL B/S3.0 FOR ADDITIONAL INFORMATION REGARDING SUPPORTING ROOF TOP MECHANICAL UNITS (RTU) ON OPEN-WEB STEEL BAR JOIST.

NOTES:
10. SEE DETAIL C/S3.0 FOR ADDITIONAL INFORMATION REGARDING SHELF ANGLES REQUIRED FOR OPENINGS IN METAL FORM DECK AND METAL ROOF DECK.

11. SEE DETAIL D/S3.0 FOR ADDITIONAL INFORMATION REGARDING HORIZONTAL BRIDGING FOR OPEN-WEB STEEL BAR JOISTS.

12. SEE DETAIL F/S3.0 FOR ADDITIONAL INFORMATION REGARDING ATTACHMENT OF METAL FORM DECK TO THE SUPPORTING STEEL STRUCTURE.

13. SEE DETAIL G/S3.0 FOR ADDITIONAL INFORMATION REGARDING ATTACHMENT OF OPEN-WEB STEEL BAR JOISTS TO THE SUPPORTING STRUCTURE.

14. SEE NOTE NO. 23 ON SHEET S1.1 FOR SLAB ON GRADE CRITERIA.

15. WHERE INDICATED ON THE PLAN, THE UPPER LEVEL FLOOR STRUCTURE SHALL BE 3.5" Thk. CONCRETE SLAB ON 0.6C28 METAL FORM DECK. PROVIDE WELDED WIRE REINFORCEMENT (WWR) 4x4-W2.9x2W2.9 AT 1" BELOW THE SLAB SURFACE - RE: F/S3.0.

16. THE SECOND FLOOR TOP OF CONCRETE ELEVATION SHALL BE 110'-1"+/- (V.I.F.).

17. SEE DETAIL C/S3.1 FOR MORE INFORMATION REGARDING BRICK LOOSE LINTEL ANGLES.

18. SEE SHEET S3.0 FOR STEEL BEAM SCHEDULE.

19. SEE DETAIL K/S3.1 AND ACCOMPANYING SCHEDULE FOR CONNECTION DETAILS WHERE STEEL BEAMS FRAME INTO STEEL COLUMNS AND/OR OTHER STEEL BEAMS.

NOTES:
20. TUBE STEEL COLUMNS (HSS) FOR THIS PROJECT SHALL CONFORM TO ASTM A500, GRADE C - SEE FOUNDATION PLANS FOR COLUMN SIZES.

21. SEE DETAIL A/S3.1 FOR BEAM TO COLUMN CONNECTION WHERE STEEL BEAM IS INDICATED TO BE CONTINUOUS OVER TOP OF TUBE STEEL COLUMN.

22. THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS (MCJ) SPACED AT 24'-0" (MAXIMUM) CENTERS. MASONRY CONTROL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL D/S4.0 AND NOTE NO. 5-S ON SHEET S0.2. SEE DETAIL A/S4.0 FOR MORE INFORMATION REGARDING MASONRY CONTROL JOINT (MCJ) LAYOUT. THE CONTRACTOR SHALL COORDINATE MCJ LOCATIONS w/ARCHITECTURAL DRAWINGS.

23. LETTERS IN HEXAGONS (A) DENOTE GROUTED SOLID, REINFORCED MASONRY (CMU) HEADER BEAMS OVER WALL OPENINGS IN THE MASONRY (CMU) WALLS. SEE DETAILS A/S4.0 AND B/S4.0 FOR ADDTIONAL INFORMATION. THE REINFORCING STEEL DETAILER SHALL DETAIL ALL MASONRY HEADER BEAMS ON THE REINFORCING STEEL SHOP DRAWINGS. SEE SCHEDULE ON SHEET S4.0 FOR MASONRY HEADER REINFORCING.

24. NUMBERS IN HEXAGONS (1) DENOTES NEW STEEL BEAM HEADERS IN EXISTING CMU WALL - SEE DETAIL A/S4.2, SECTION 1/S4.2 AND THE ACCOMPANYING SCHEDULE FOR ADDITIONAL INFORMATION.

NOTES:
25. NUMEROUS HVAC AND MECHANICAL WALL OPENINGS AND PENETRATIONS ARE REQUIRED THROUGH CONCRETE MASONRY (CMU) WALLS ON THIS PROJECT. THE CONTRACTOR SHALL COORDINATE THE EXACT SIZE AND LOCATION OF ALL WALL OPENINGS BETWEEN MASON AND ALL OTHER TRADES REQUIRING WALL PENETRATIONS. MASONRY CONTRACTOR SHALL CONSTRUCT THE REQUIRED HEADERS IN CMU WALLS OVER OPENINGS PER DETAILS A/S4.0 AND THE HEADER SCHEDULE ON SHEET S4.0.

26. WHERE OPENINGS IN MASONRY WALLS ARE INDICATED ON ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS, PROVIDE A REINFORCED MASONRY HEADER PER THE APPLICABLE DETAILS REFERENCED HEREIN. HEADER BEAM REINFORCING DETAILS SHALL BE FOR THE OPENING IN THE SCHEDULE THAT IS MOST SIMILAR TO THE OPENING IN QUESTION.

27. PROVIDE STEEL BEARING PLATES PER DETAIL C/S4.1 UNDER ALL OPEN-WEB STEEL BAR JOISTS BEARING ON MASONRY WALLS.

28. PROVIDE STEEL BEARING PLATES PER DETAIL A/S4.1 AND SECTION 1/S4.1 FOR ALL STEEL BEAMS INDICATED TO BE SUPPORTED BY MASONRY WALLS OR MASONRY COLUMNS (MC) - RE: B/S4.1 FOR DETAILS REGARDING MASONRY COLUMN (MC) UNDER STEEL BEAM. RE: BEAM SCHEDULE FOR BEARING PLATE SIZE.

29. SEE SECTION 2/S4.1 FOR ADDITIONAL INFORMATION WHERE MASONRY (CMU) WALLS ARE INDICATED TO BE SUPPORTED ON STEEL BEAMS.

30. SEE SECTION 3/S4.1 FOR ADDITIONAL INFORMATION WHERE STEEL BEAM IS INDICATED TO BE CONTINUOUS OVER TOP OF A MASONRY COLUMN (MC) OR MASONRY WALL.

NOTES:
31. ALL CMU WALLS (INCLUDING THOSE NO SHOWN ON STRUCTURAL DRAWINGS) SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCING AS SPECIFIED IN NOTE NOS. 5-Q ON SHEET S0.2.

32. PROVIDE ADDITIONAL VERTICAL REINFORCING IN GROUTED S OLID CMU CELLS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS AS WELL AS AT THE END OF ALL WALLS AND AT ALL WALL OPENING JAMBS PER DETAIL D/S4.1. PROVIDE ADDITIONAL DOWELS OUT OF FOUNDATION TO MATCH EXTRA BARS.

33. PROVIDE BOND BREAKER CONSISTING OF TWO (2) LAYERS OF 15# CONSTRUCTION FELF OR SELF-ADHERED MEMBRANE BOND BREAKER BETWEEN CONCRETE FLOOR SLABS (ON GRADE, AND/OR FORM DECK) AND CMU WALLS.

34. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. DIMENSIONAL DISCREPENCIES SHALL BE RECTIFIED PRIOR TO STARTING CONSTRUCTION.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
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16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SECOND FLOOR FRAMING PLAN

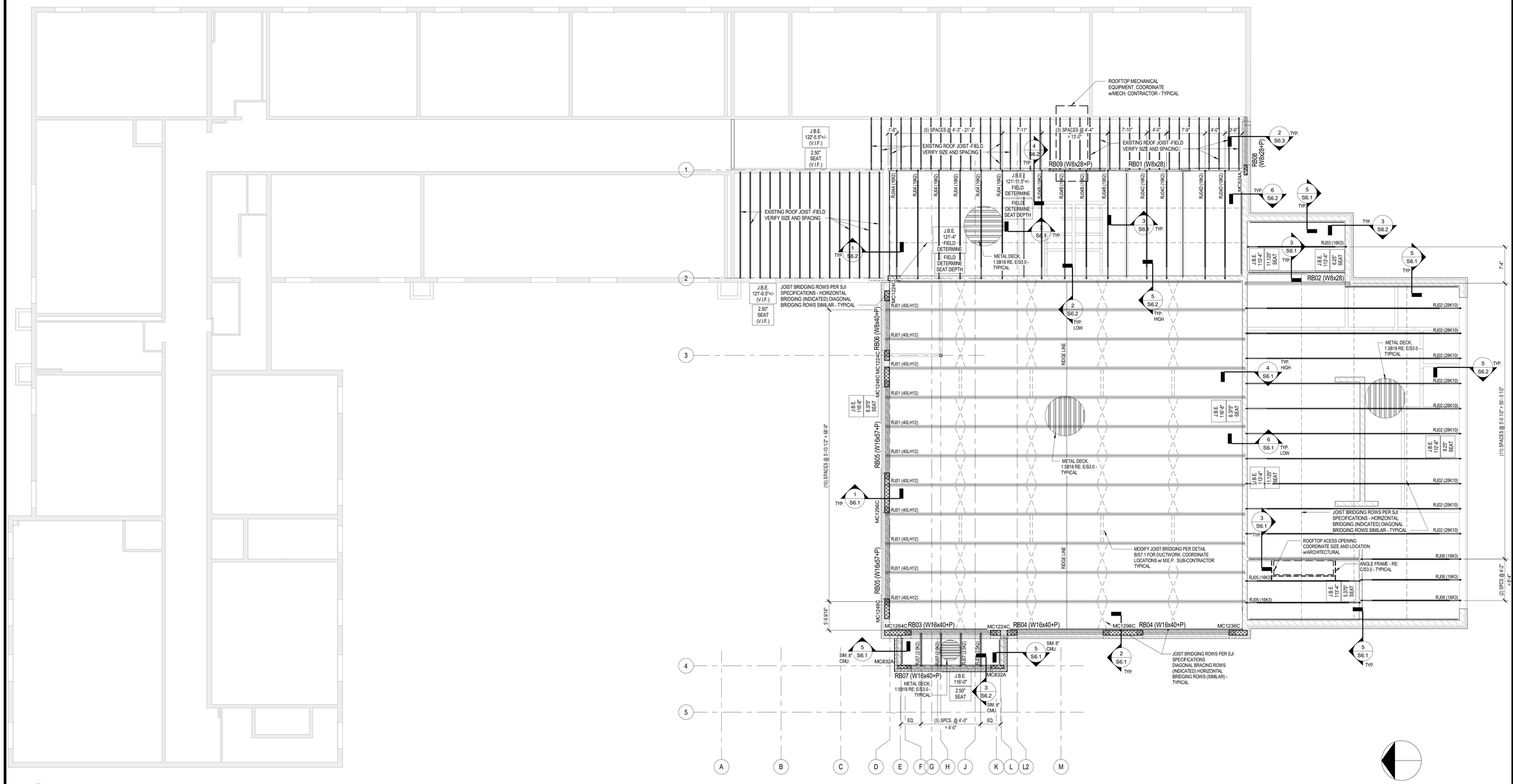
JOB NO.	1933
DATE	12/16/2019
DRAWN	DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S1.2



1 ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES AND FOR ABBREVIATIONS USED THROUGHOUT THESE DRAWINGS.

2. SEE SHEET S0.1 FOR STRUCTURAL DESIGN CRITERIA.

3. SEE SHEET S0.1 FOR GEOTECHNICAL DATA AND REQUIREMENTS ALONG WITH STRUCTURAL NOTES PERTAINING TO THE TESTING AND PREPARATION OF THE SUBGRADE FOR CONCRETE FLOOR SLABS ON GRADE AND BEARING STRATA FOR CONTINUOUS WALL FOOTINGS AND ISOLATED COLUMN FOUNDATIONS.

4. SEE SHEET S0.1 FOR STRUCTURAL NOTES PERTAINING TO CONCRETE MIX DESIGN, REINFORCING STEEL, AND REINFORCED CONCRETE CONSTRUCTION.

5. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO REINFORCED CONCRETE MASONRY (CMU) CONSTRUCTION.

6. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO STRUCTURAL STEEL CONSTRUCTION AS WELL AS CONSTRUCTION UTILIZING OPEN-WEB, STEEL BAR JOIST, METAL ROOF DECK.

7. SEE SHEET S0.3 FOR NOTES PERTAINING TO THE SPECIAL INSPECTIONS REQUIRED ON THIS PROJECT BY CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE (KBC).

8. SEE DETAIL A/S3.0 FOR ADDITIONAL INFORMATION REGARDING SUPPORTING CONCENTRATED LOADS ON OPEN-WEB STEEL BAR JOIST.

9. THE CONTRACTOR SHALL COORDINATE RTU WEIGHTS AND LOCATIONS BETWEEN BAR JOIST SUPPLIER AND ALL M.E.P. SUB-CONTRACTORS.

10. SEE DETAIL B/S3.0 FOR ADDITIONAL INFORMATION REGARDING SUPPORTING ROOF TOP MECHANICAL UNITS (RTU) ON OPEN-WEB STEEL BAR JOISTS.

NOTES: CONTINUED

11. SEE DETAIL C/S3.0 FOR ADDITIONAL INFORMATION REGARDING ANGLE FRAMES REQUIRED FOR OPENINGS IN THE METAL ROOF DECK.

12. SEE DETAIL D/S3.0 FOR ADDITIONAL INFORMATION REGARDING HORIZONTAL BRIDGING FOR OPEN-WEB STEEL BAR JOISTS.

13. SEE DETAIL G/S3.0 FOR ADDITIONAL INFORMATION REGARDING ATTACHMENT OF OPEN-WEB STEEL BAR JOISTS TO THE SUPPORTING STRUCTURE.

14. SEE DETAIL C/S3.1 FOR MORE INFORMATION REGARDING BRICK LINTEL ANGLES.

15. SEE SHEET S3.0 FOR STEEL BEAM SCHEDULE.

16. SEE DETAIL K/S3.1 AND ACCOMPANYING SCHEDULE FOR CONNECTION DETAILS WHERE STEEL BEAMS FRAME INTO STEEL COLUMNS AND/OR OTHER STEEL BEAMS.

17. TUBE STEEL COLUMNS (HSS) FOR THIS PROJECT SHALL CONFORM TO ASTM A500, GRADE C - SEE FOUNDATION PLAN FOR COLUMN SIZES.

18. SEE DETAIL A/S3.1 FOR BEAM TO COLUMN CONNECTION WHERE STEEL BEAM IS INDICATED TO BE CONTINUOUS OVER TOP OF TUBE STEEL COLUMN.

19. THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS (M.C.J.) SPACED AT 24'-0" (MAXIMUM) CENTERS. MASONRY CONTROL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL D/S4.0 AND NOTE No. 5-S ON SHEET S0.2. SEE DETAIL A/S4.0 FOR MORE INFORMATION REGARDING MASONRY CONTROL JOINT (M.C.J.) LAYOUT. THE CONTRACTOR SHALL COORDINATE MCJ LOCATIONS w/ARCHITECTURAL DRAWINGS.

NOTES: CONTINUED

20. LETTERS IN HEXAGONS (A) DENOTE GROUTED SOLID, REINFORCED MASONRY (CMU) HEADER BEAMS OVER WALL OPENINGS IN THE MASONRY (CMU) WALLS. SEE DETAILS A/S4.0 AND B/S4.0 FOR ADDITIONAL INFORMATION. THE REINFORCING STEEL DETAILER SHALL DETAIL ALL MASONRY HEADER BEAMS ON THE REINFORCING STEEL SHOP DRAWINGS. SEE SCHEDULE ON S4.0 FOR MASONRY HEADER REINFORCING.

21. NUMEROUS HVAC AND MECHANICAL WALL OPENINGS AND PENETRATIONS ARE REQUIRED THROUGH CONCRETE MASONRY (CMU) WALLS ON THIS PROJECT. THE CONTRACTOR SHALL COORDINATE THE EXACT SIZE AND LOCATION OF ALL WALL OPENINGS BETWEEN THE MASON AND ALL OTHER TRADES REQUIRING WALL PENETRATIONS. MASON CONTRACTOR SHALL CONSTRUCT THE REQUIRED HEADERS IN CMU WALLS OVER OPENINGS PER DETAILS A/S4.0 AND THE HEADER SCHEDULES ON SHEET S4.0.

22. WHERE OPENINGS IN MASONRY WALLS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS, PROVIDE A REINFORCED MASONRY HEADER PER THE APPLICABLE DETAILS REFERENCED HEREIN. HEADER BEAM REINFORCING DETAILS SHALL BE FOR THE OPENING IN THE SCHEDULE THAT IS MOST SIMILAR TO THE OPENING IN QUESTION.

23. PROVIDE STEEL BEARING PLATES PER DETAIL C/S4.1 UNDER ALL OPEN-WEB STEEL BAR JOISTS BEARING ON MASONRY WALLS.

24. PROVIDE BEARING PLATES PER DETAIL A/S4.1 AND SECTION 1/S4.1 FOR ALL STEEL BEAMS INDICATED TO BE SUPPORTED BY MASONRY WALLS OR MASONRY COLUMNS (MC) - RE: B/S4.1 FOR DETAILS REGARDING MASONRY COLUMNS (MC) UNDER STEEL BEAM - RE: BEAMS SCHEDULE FOR BEARING PLATE SIZE.

25. SEE SECTION 2/S4.1 FOR ADDITIONAL INFORMATION WHERE MASONRY (CMU) WALLS ARE INDICATED TO BE SUPPORTED ON STEEL BEAMS.

NOTES: CONTINUED

26. SEE SECTION 3/S4.1 FOR ADDITIONAL INFORMATION WHERE STEEL BEAM IS INDICATED TO BE CONTINUOUS OVER TOP OF A MASONRY COLUMN (MC) OR MASONRY WALL.

27. ALL CMU WALLS (INCLUDING THOSE NOT SHOWN ON STRUCTURAL DRAWINGS) SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCING AS SPECIFIED IN NOTE 5-Q ON SHEET S0.2.

28. PROVIDE ADDITIONAL VERTICAL REINFORCING IN GROUTED CMU CELLS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS AS WELL AS AT THE END OF ALL WALLS AND ALL WALL OPENING JAMBS PER DETAIL D/S4.1. PROVIDE ADDITIONAL DOWELS OUT OF FOUNDATION TO MATCH EXTRA BARS.

29. PROVIDE BOND BREAKER CONSISTING OF TWO (2) LAYERS OF 15# CONSTRUCTION FELT OR SELF-ADHERED MEMBRANE BOND BREAKER BETWEEN CONCRETE FLOOR SLABS ON GRADE AND CMU WALLS.

30. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. DIMENSIONAL DISCREPANCIES SHALL BE RECTIFIED PRIOR TO STARTING CONSTRUCTION.

31. NUMBERS IN HEXAGONS (1) DENOTE NEW STEEL BEAM HEADER IN EXISTING CMU WALL - SEE DETAIL A/S4.2, SECTION 1/S4.2 AND ACCOMPANYING SCHEDULE FOR ADDITIONAL INFORMATION.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

ROOF FRAMING PLAN

JOB NO.	1933
DATE	12/16/2019
DRAWN	DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S1.3

ISOLATED COLUMN FOOTING SCHEDULE

FOOTING MARK No.	FOOTING SIZE	REINFORCING FOR ONE (1) FOOTING		REMARKS
		TOP BARS	BOTTOM BARS	
F3.5	3'-6"x 3'-6"x 1'-0" Thick	NONE REQUIRED	(4) #5 BARS, E.W.	
F4.0	4'-0"x 4'-0"x 1'-0" Thick	NONE REQUIRED	(5) #5 BARS, E.W.	
F4.5	4'-6"x 4'-6"x 1'-0" Thick	NONE REQUIRED	(5) #5 BARS, E.W.	
F5.0	5'-0"x 5'-0"x 1'-0" Thick	NONE REQUIRED	(6) #5 BARS, E.W.	
F12x6	12'-0"x 6'-0"x 1'-2" Thick	NONE REQUIRED	(14) #6 BARS, E.W.	

NOTES:

1. THE ISOLATED COLUMN FOOTINGS DETAILED IN THIS SCHEDULE ARE BASED ON THE ALLOWABLE SOIL BEARING PRESSURE (q) SPECIFIED ON S0.1 (REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION).

2. "E.W." DENOTES THAT THE SIZE AND QUANTITY OF BARS SPECIFIED ARE TO BE PROVIDE "EACH WAY" IN THE FOOTING.

3. THE "Long" DESIGNATION DENOTES THE THE SIZE AND QUANTITY OF BARS SPECIFIED ARE TO BE PROVIDE IN THE "LONG" DIMENSION OF A RECTANGULAR FOOTING.

4 THE "Short" DESIGNATION DENOTES THE THE SIZE AND QUANTITY OF BARS SPECIFIED ARE TO BE PROVIDE IN THE "SHORT" DIMENSION OF A RECTANGULAR FOOTING.

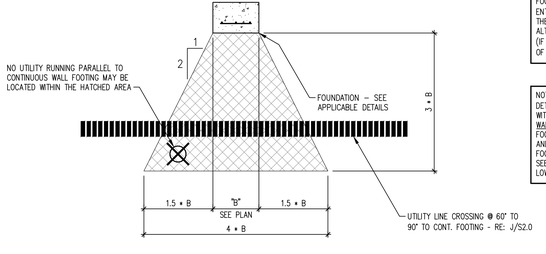
CONTINUOUS WALL FOOTING SCHEDULE

FOOTING MARK No.	FOOTING SIZE	REINFORCING FOR ONE (1) FOOTING		REMARKS
		TOP BARS	BOTTOM BARS	
W24	CONT. 2'-0" Wide x 1'-0" Thick	NONE REQUIRED	(3) CONT. #4 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W30	CONT. 2'-6" Wide x 1'-0" Thick	NONE REQUIRED	(3) CONT. #4 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W36	CONT. 3'-0" Wide x 1'-0" Thick	NONE REQUIRED	(4) CONT. #5 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W42	CONT. 3'-6" Wide x 1'-0" Thick	NONE REQUIRED	(4) CONT. #5 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	

NOTES:

THE CONTINUOUS WALL FOOTINGS DETAILED IN THIS SCHEDULE ARE BASED ON THE ALLOWABLE SOIL BEARING PRESSURE (q) SPECIFIED ON S0.1 (REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION).

1. FOOTINGS w/ "WXX–*" MARK NUMBERS HAVE BEEN WIDENED TO ACCOMMODATE WALL GEOMETRY (SEE PLAN).



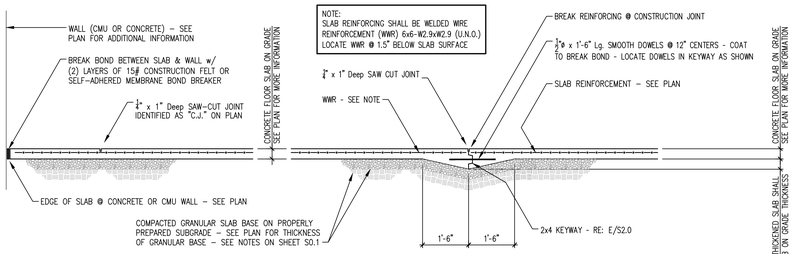
M.E.P. LINE UNDER FOUNDATION WALL / FOOTING

TYPICAL DETAIL – FOUNDATION AT M.E.P. LINES

SCALE: 1/2" = 1'-0" — H S2.0

NOTE:
THE CONTRACTOR SHALL COORDINATE BETWEEN THE CONCRETE INSTALLER AND THE M.E.P. SUB-CONTRACTOR AND LOWER WALL FOOTINGS AS NECESSARY TO ALLOW UNDERGROUND UTILITIES TO ENTER / EXIT THE BUILDING WITH 6" (MIN.) CLEARANCE BETWEEN THE TOP OF FOOTING AND BOTTOM OF UNDERGROUND UTILITY. ALTERNATIVELY, THE UNDERGROUND UTILITY MAY BE LOWERED (IF ACCEPTABLE TO THE M.E.P. ENGINEER) SUCH THAT THE TOP OF CONDUIT / PIPE IS 12" (MIN.) BELOW BOTTOM OF FOOTING.

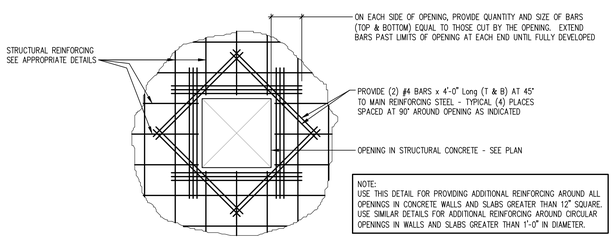
NOTE:
DETAILS J/S2.0 & H/S2.0 PROVIDE INFORMATION FOR DEALING WITH INTERFERENCES BETWEEN UNDERGROUND M.E.P. LINES AND WALL FOOTINGS – M.E.P. LINES MAY NOT RUN UNDER COLUMN FOOTINGS – WHERE INTERFERENCES BETWEEN COLUMN FOOTINGS AND M.E.P. LINES OCCUR, RE-ROUTE UTILITY OR LOWER COLUMN FOOTING TO ALLOW M.E.P. LINE TO PASS OVER TOP OF FOOTING. SEE FOUNDATION DETAILS FOR MORE INFORMATION REGARDING LOWER COLUMN FOOTINGS PER THIS NOTE.



TYPICAL SLAB CONTROL JOINT (C.J.) TYPICAL SLAB CONSTRUCTION JOINT (C.J.)

TYPICAL DETAIL – CONCRETE SLAB JOINTS

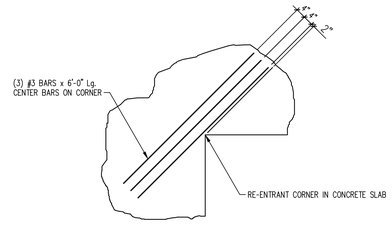
SCALE: 1/2" = 1'-0" — A S2.0



ADDITIONAL REINFORCING AT OPENINGS IN STRUCTURAL CONCRETE

TYPICAL DETAIL

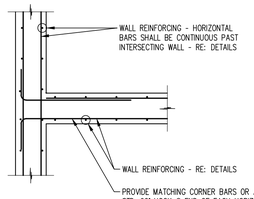
SCALE: 1/2" = 1'-0" — B S2.0



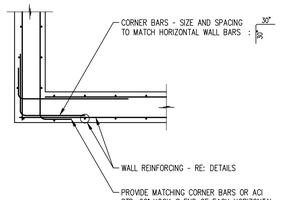
REINFORCING FOR RE-ENTRANT CORNERS IN SLABS

TYPICAL DETAIL

SCALE: 1/2" = 1'-0" — C S2.0



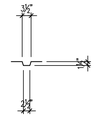
CONCRETE WALL INTERSECTION



CONCRETE WALL CORNER

TYPICAL DETAIL – CORNER BARS

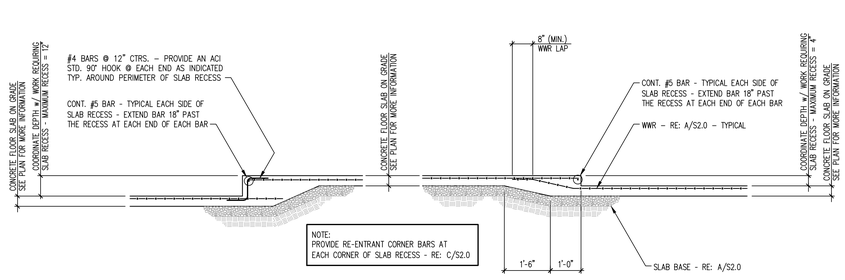
SCALE: 1/2" = 1'-0" — D S2.0



2x4 KEY IN CONCRETE

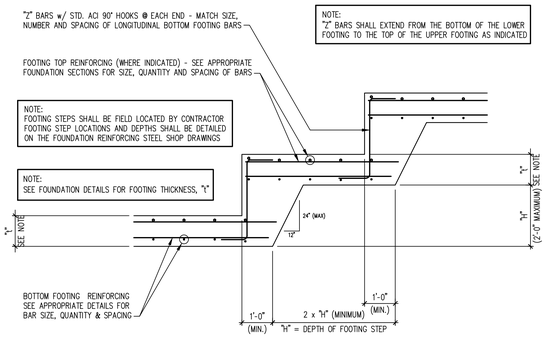
TYPICAL DETAIL

SCALE: 1/2" = 1'-0" — E S2.0



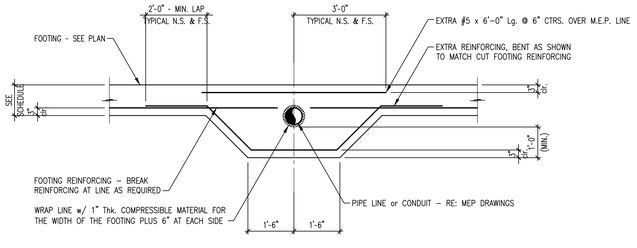
TYPICAL DETAIL – SLAB RECESS

SCALE: 1/2" = 1'-0" — F S2.0

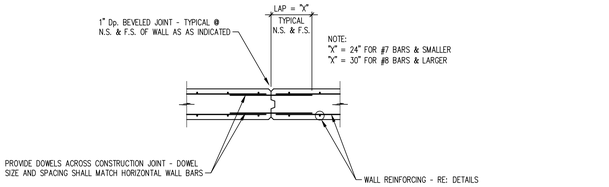


TYPICAL DETAIL – FOOTING STEP

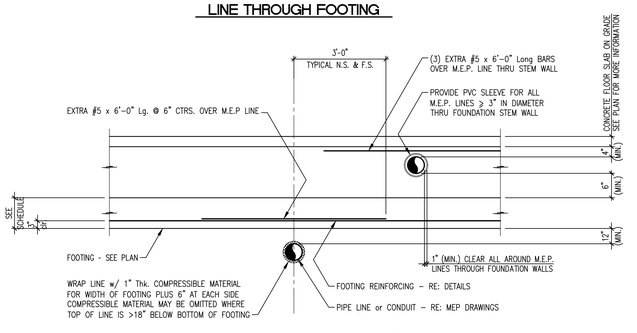
SCALE: 1/2" = 1'-0" — G S2.0



LINE THROUGH FOOTING



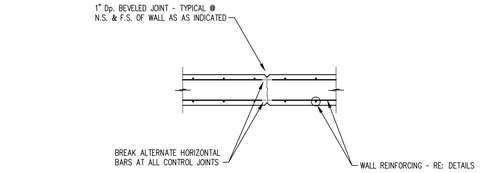
CONSTRUCTION JOINT



M.E.P. LINE UNDER FOUNDATION WALL / FOOTING

TYPICAL DETAIL – FOUNDATION AT M.E.P. LINES

SCALE: 1/2" = 1'-0" — J S2.0



CONTROL JOINT

TYPICAL DETAIL – CONCRETE WALL JOINTS

SCALE: 1/2" = 1'-0" — K S2.0

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS – ALL MAY NOT APPLY TO THIS PROJECT

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY — WILLIAM E. GRIGSBY, JR. — 16114 — LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

TYPICAL CONCRETE DETAILS + FOUNDATION SCHEDULES

JOB NO.	1933
DATE	12/16/2019
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REVISIONS

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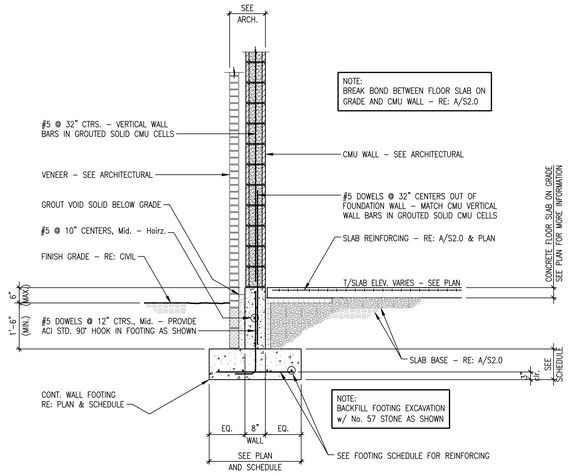
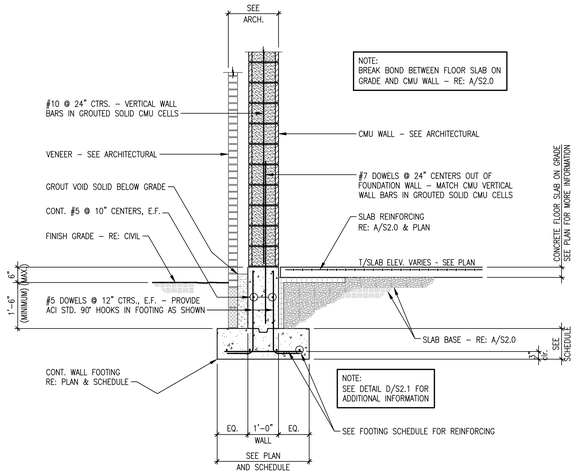
SHEET

S2.0

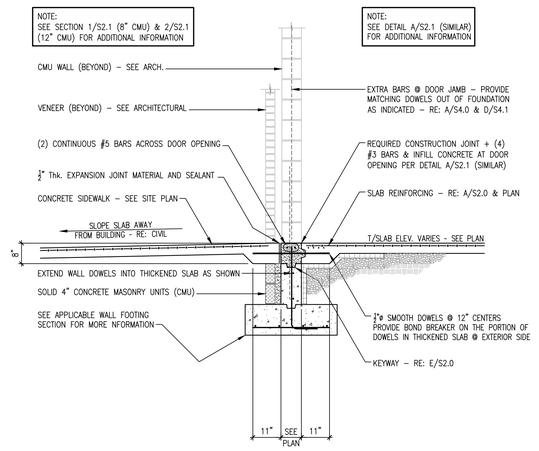
1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



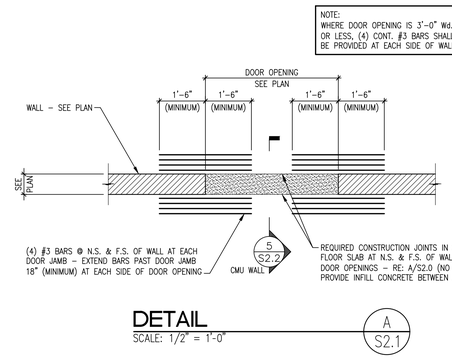
SECTION
SCALE: 1/2" = 1'-0"
1 S2.1



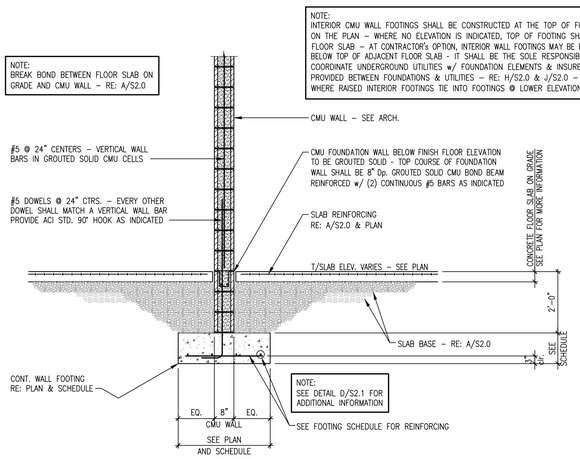
SECTION
SCALE: 1/2" = 1'-0"
2 S2.1



SECTION
SCALE: 1/2" = 1'-0"
3 S2.1



DETAIL
SCALE: 1/2" = 1'-0"
A S2.1



SECTION
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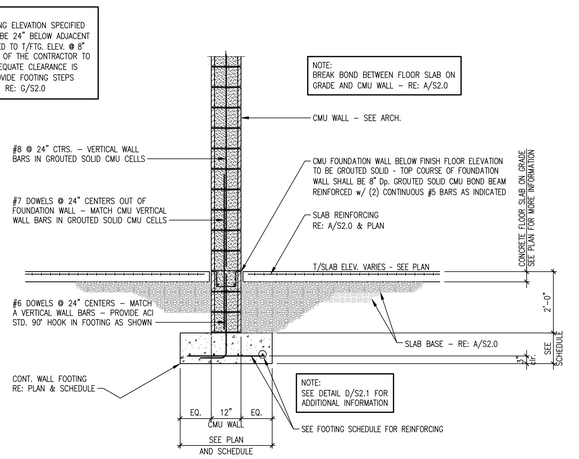
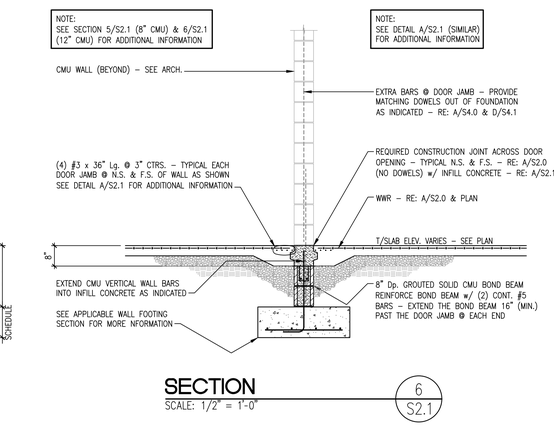
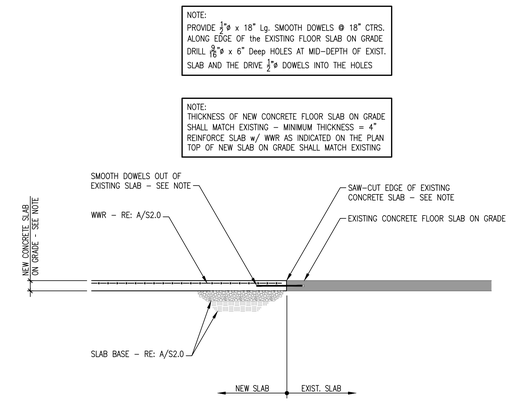
4 S2.1



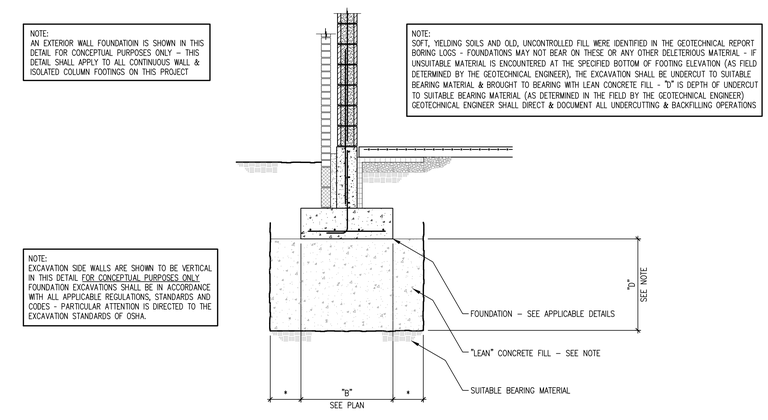
SECTION
SCALE: 1/2" = 1'-0"
5 S2.1



SECTION
SCALE: 1/2" = 1'-0"
6 S2.1



DETAIL
SCALE: 1/2" = 1'-0"
B S2.1

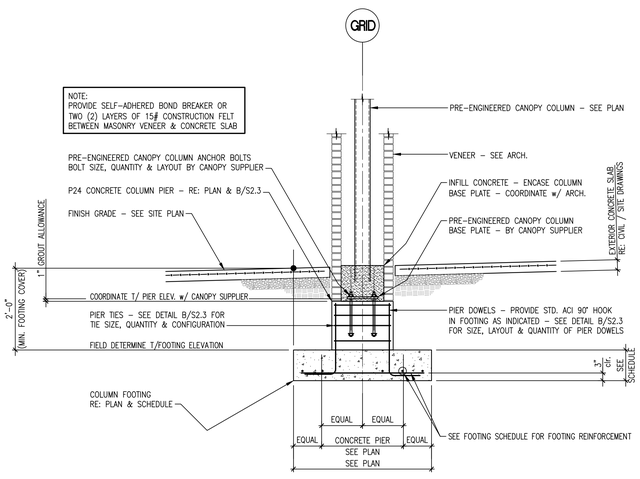


* INDICATES FIELD DETERMINE AS DIRECTED BY THE GEOTECHNICAL ENGINEER

NOTE: STRUCTURAL FILL SHALL BE LEAN CONCRETE (fc = 1,500 psi MINIMUM) FOUNDATION UNDERCUTTING & LEAN CONCRETE FILL PLACEMENT SHALL BE DIRECTED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER

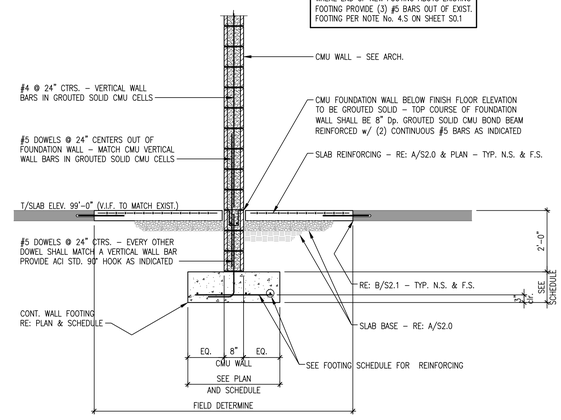
FOUNDATION UNDERCUT

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
C S2.1



NOTE: DESIGN OF COLUMNS, BASE PLATES, ANCHOR BOLTS & FOUNDATIONS FOR THE PRE-ENGINEERED CANOPY SHALL BE THE RESPONSIBILITY OF THE PRE-ENINGEERED CANOPY SUPPLIER – DETAILS SHOWN HEREIN ARE FOR CONCEPTUAL AND BIDDING PURPOSES ONLY – CONTRACTOR SHALL ENSURE THAT CANOPY SUPPLIER PROVIDES ALL NECESSARY DESIGN & DETAILS TO CONSTRUCT THE CANOPY COLUMN FOOTINGS

SECTION
SCALE: 1/2" = 1'-0"
7 S2.1



SECTION
SCALE: 1/2" = 1'-0"
8 S2.1

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGGS, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

FOUNDATION SECTIONS + DETAILS

JOB NO.	1933
DATE	12/16/2019
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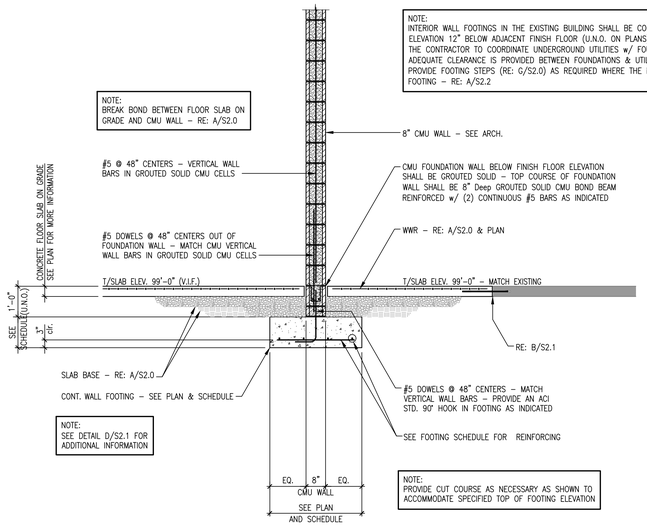
REVISIONS

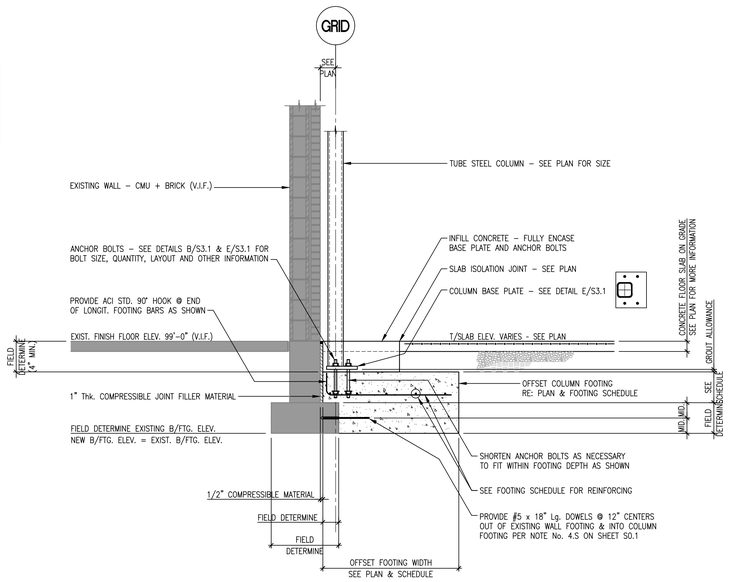
No.	Description	Date

SHEET

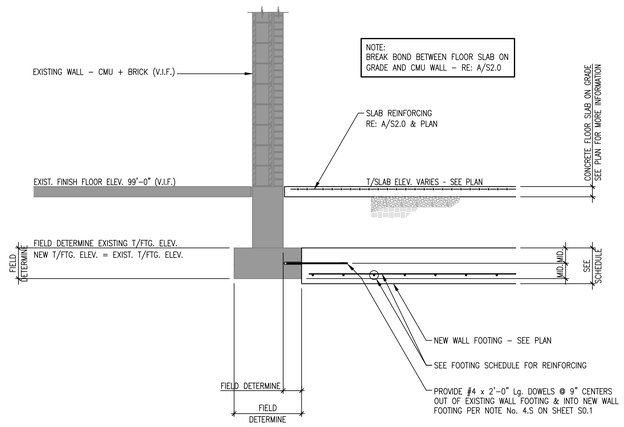
S2.1



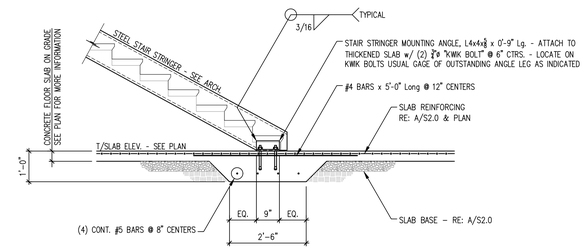
SECTION
SCALE: 1/2" = 1'-0"
1 S2.2



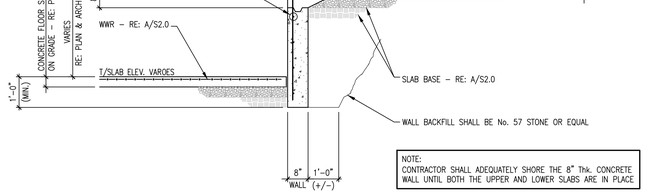
SECTION
SCALE: 1/2" = 1'-0"
2 S2.2



TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
A S2.2

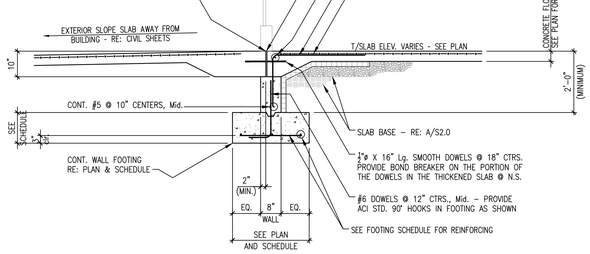


DETAIL
SCALE: 1/2" = 1'-0"
B S2.2

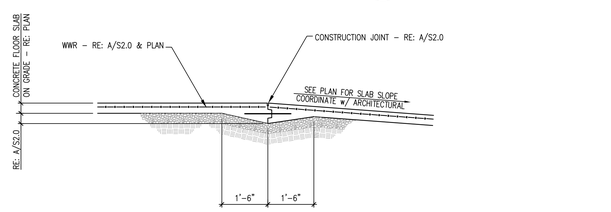


STAIR CHEEK WALL

SECTION
SCALE: 1/2" = 1'-0"
3 S2.2

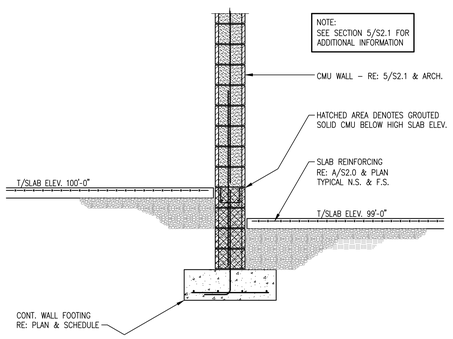


SECTION
SCALE: 1/2" = 1'-0"
4 S2.2

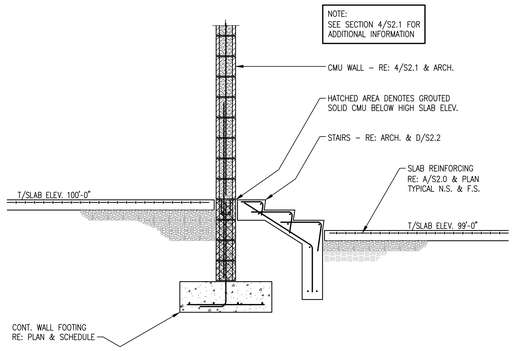


STAGE RAMP

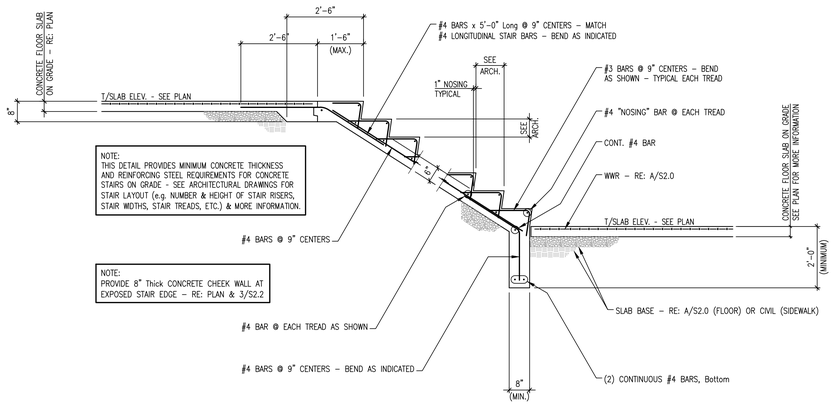
TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
C S2.2



SECTION
SCALE: 1/2" = 1'-0"
5 S2.2



SECTION
SCALE: 1/2" = 1'-0"
6 S2.2



CONCRETE STAIRS

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
D S2.2

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

FOUNDATION SECTIONS + DETAILS

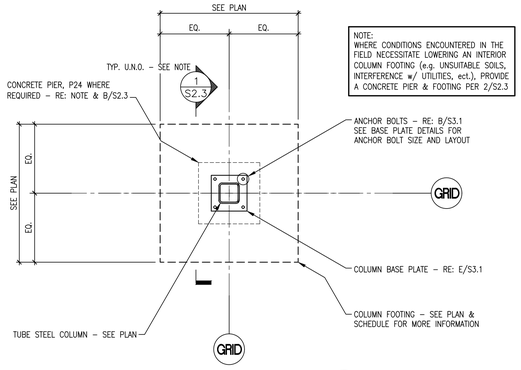
JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

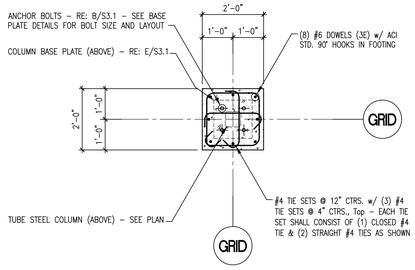
SHEET
S2.2

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



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

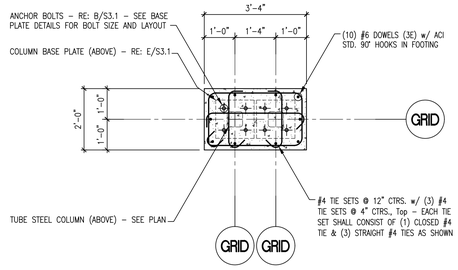
A S2.3



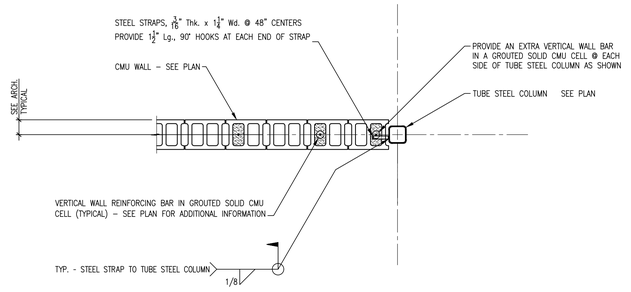
COLUMN PIER P24
24" SQUARE CONCRETE PIER

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

B S2.3

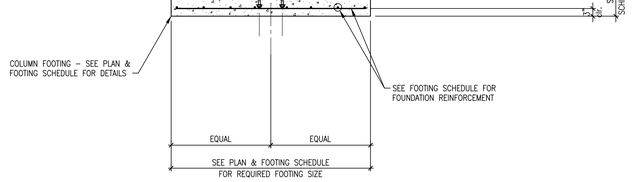


CONCRETE COLUMN PIER - P40
24" x 40" CONCRETE PIER



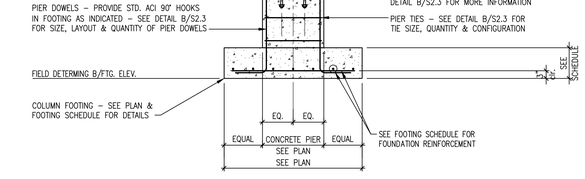
TUBE STEEL COLUMN IN CMU WALL
TYPICAL DETAIL
SCALE: 1/2" = 1'-0"

C S2.3



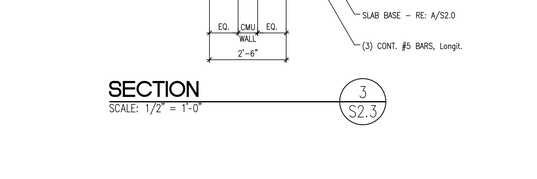
SECTION
SCALE: 1/2" = 1'-0"

1 S2.3



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

2 S2.3



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

3 S2.3

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

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FOUNDATION SECTIONS + DETAILS

JOB NO.	1933
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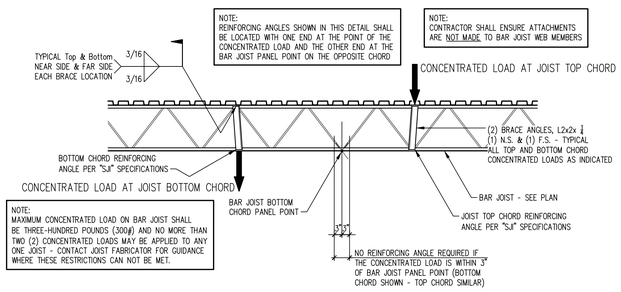
REVISIONS

No.	Description	Date

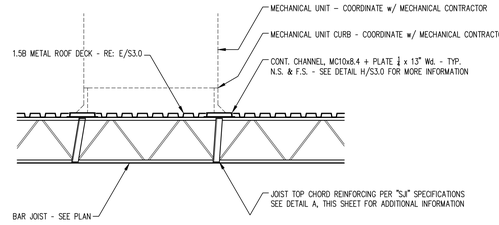
SHEET

S2.3



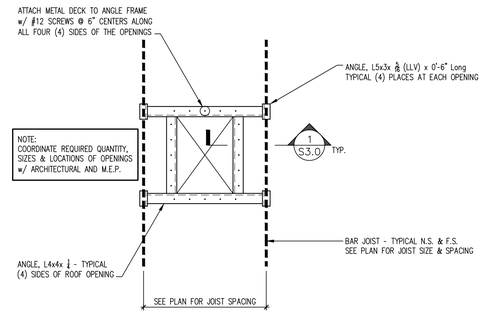
REINFORCING FOR BAR JOIST CHORDS UNDER CONCENTRATED LOADS

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — A / S3.0



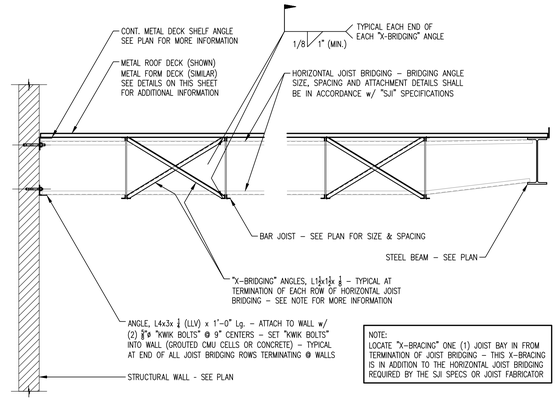
ROOFTOP HVAC SUPPORT FRAMING

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — B / S3.0



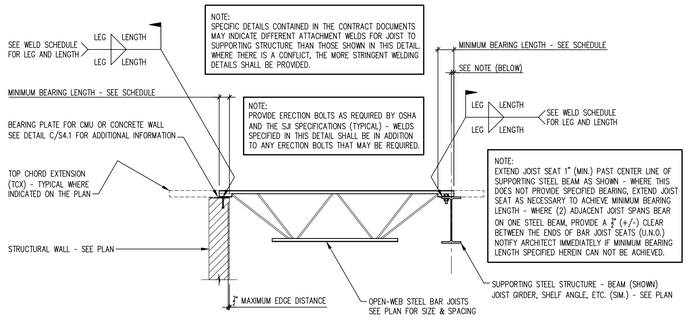
ANGLE FRAME FOR OPENINGS IN ROOF DECK + FORM DECK

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — C / S3.0



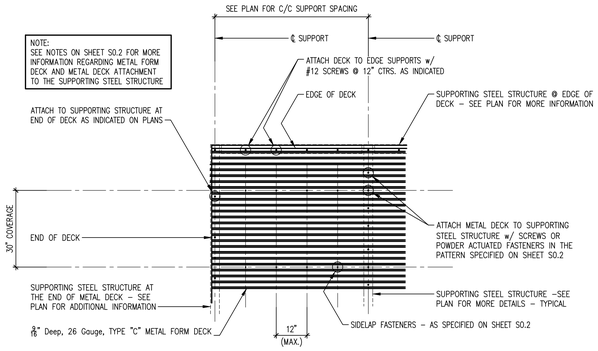
JOIST BRIDGING TERMINATION DETAIL

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — D / S3.0



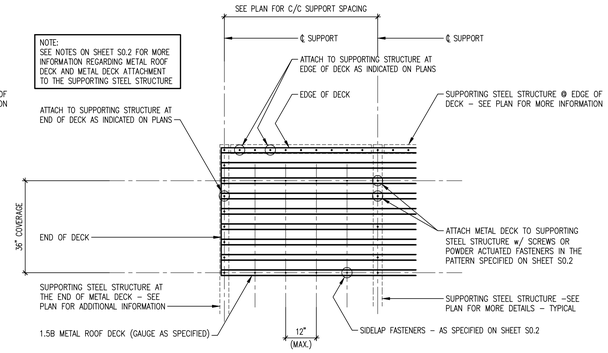
JOIST TO SUPPORTING STRUCTURE ATTACHMENT DETAIL

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — G / S3.0



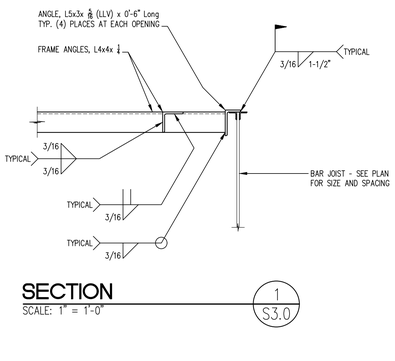
0.6C METAL FORM DECK FASTENER PATTERN

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — F / S3.0



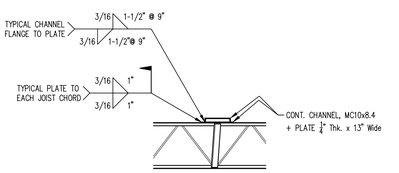
1.5B METAL ROOF DECK FASTENER PATTERN

TYPICAL DETAIL — SCALE: 1/2" = 1'-0" — E / S3.0



SECTION

SCALE: 1" = 1'-0" — 1 / S3.0



DETAIL

SCALE: 1/2" = 1'-0" — H / S3.0

JOIST WELD SCHEDULE

JOIST SERIES	LEG	LENGTH	BEARING LENGTH	REMARKS
"K" SERIES	3/16"	3"	4" CMU - 2⅝" STEEL	RE: ANSI SJI-K-2010
"LH" SERIES 02 - 06	3/16"	3"	6" CMU - 4" STEEL	RE: ANSI SJI-LH/DLH-2010
"LH"/"DLH" SERIES 07 - 17	¼"	3"	6" CMU - 4" STEEL	RE: ANSI SJI-LH/DLH-2010
"LH"/"DLH" SERIES 18 - 25	¼"	4"	6" CMU - 6" STEEL	RE: ANSI SJI-LH/DLH-2010
JOIST GIRDERS w/ 7½" Dp. SEAT	5/16"	4"	6" CMU - 4" STEEL	RE: ANSI SJI-JG-2010
JOIST GIRDERS w/ 10" Dp. SEAT	5/16"	6"	6" CMU - 4" STEEL	RE: ANSI SJI-JG-2010

THIS DETAIL IS BASED ON THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
BEARING LENGTHS SPECIFIED IN THIS TABLE DO NOT INCLUDE ANY REQUIRED JOIST TOP CHORD EXTENSION (TCX).
ALL JOIST SERIES SHOWN IN THIS CHART MAY NOT APPLY TO THIS PROJECT. SEE PLANS FOR SPECIFIC JOISTS REQUIRED.

STEEL BEAM SCHEDULE

BEAM MARK No.	BEAM SIZE	BEAM MATERIAL	DESIGN REACTION	BEAM CONNECTION DETAIL		BEAM BEARING PLATE		BEAM ELEVATION		SECTION	REMARKS	BEAM MARK No.
				TAG END	OPPOSITE END	TAG	OPP.	TAG END	OPPOSITE END			
B01	W12x30	A992, Gr. 50	18.8 kips	K/S3.1	K/S3.1	N/A	N/A	109'-4"	109'-4"	RE: 2/S5.2		B01
B02	W12x30	A992, Gr. 50	18.8 kips	K/S3.1	K/S3.1	N/A	N/A	109'-4"	109'-4"	RE: 2/S5.2		B02
B03	W16x36	A992, Gr. 50	18.2 kips	K/S3.1	K/S3.1	N/A	N/A	109'-4"	109'-4"	RE: 2/S5.2		B03
B04	W8x28+P	A992, Gr. 50	22.5 kips	1/S4.1	1/S4.1	0.5000x7"x1'-0" Lg.	0.5000x7"x1'-0" Lg.	109'-4"	109'-4"	RE: 4/S5.2		B04
B05	W8x28	A992, Gr. 50	8.5 kips	1/S4.1	1/S4.1	0.3750x7"x1'-0" Lg.	0.3750x7"x1'-0" Lg.	109'-4"	109'-4"	RE: 4/S5.2		B05
B06	W8x28	A992, Gr. 50	8.3 kips	1/S4.1	1/S4.1	0.3750x7"x1'-0" Lg.	0.3750x7"x1'-0" Lg.	109'-4"	109'-4"	RE: 7/S5.1		B06
B07	W16x36	A992, Gr. 50	18.6 kips	K/S3.1	K/S3.1	N/A	N/A	108'-0"(B)	108'-0"(B)	RE: 5/S5.1		B07
B08	W16x36	A992, Gr. 50	29.8 kips	K/S3.1	1/S4.1	N/A	0.7500x11"x1'-3" Lg.	108'-0"(B)	108'-0"(B)	RE: 5/S5.1		B08
B09	W8x28	A992, Gr. 50	7.8 kips	K/S3.1	1/S4.1	N/A	0.3750x11"x1'-0" Lg.	108'-0"(B)	108'-0"(B)	RE: SEE ARCH		B09
B10	W8x28	A992, Gr. 50	9.4 kips	K/S3.1	K/S3.1	N/A	N/A	108'-0"(B)	108'-0"(B)	RE: SEE ARCH		B10
B11	W8x28+P	A992, Gr. 50	13.2 kips	1/S4.1	1/S4.2	0.3750x7"x1'-0" Lg.	0.7500x7"x1'-0" Lg.	106'-4"(B) (V.I.F.)	106'-4"(B) (V.I.F.)	RE: 2/S4.1		B11
B12	W16x36	A992, Gr. 50	18.5 kips	1/S4.2	1/S4.2	1.0000x7"x1'-3" Lg.	1.0000x7"x1'-3" Lg.	109'-10.5" (V.I.F.)	109'-10.5" (V.I.F.)	RE: 4/S5.3		B12
B13	W16x40	A992, Gr. 50	22.2 kips	1/S4.2	1/S4.2	1.2500x7"x1'-4" Lg.	1.2500x7"x1'-4" Lg.	109'-10.5" (V.I.F.)	109'-10.5" (V.I.F.)	RE: 4/S5.3		B13
RB01	W8x28	A992, Gr. 50	10.1 kips	1/S4.1	1/S4.1	0.4375x7"x1'-0" Lg.	0.3750x7"x1'-0" Lg.	FIELD DETERMINE	FIELD DETERMINE	RE: 1/S6.3		RB01
RB02	W8x28	A992, Gr. 50	6.0 kips	1/S4.1	1/S4.1	0.3750x11"x1'-0" Lg.	0.3750x11"x1'-0" Lg.	114'-3.125"	113'-10.25"	RE: 7/S6.1		RB02
RB03	W16x40+P	A992, Gr. 50	14.3 kips	1/S4.1	1/S4.1	0.6250"x11"x1'-3" Lg.	0.6250"x11"x1'-3" Lg.	112'-0" (B)	112'-0" (B)	RE: 2/S4.1		RB03
RB04	W16x40+P	A992, Gr. 50	14.1 kips	1/S4.1	1/S4.1	0.5000"x11"x1'-3" Lg.	0.5000x11"x1'-3" Lg.	112'-0" (B)	112'-0" (B)	RE: 2/S4.1		RB04
RB05	W16x57+P	A992, Gr. 50	27.5 kips	1/S4.1	1/S4.1	0.6250x11"x1'-3" Lg.	0.6250x11"x1'-3" Lg.	112'-0" (B)	112'-0" (B)	RE: 2/S4.1		RB05
RB06	W8x40+P	A992, Gr. 50	17.5 kips	1/S4.1	1/S4.1	0.6250"x11"x1'-0" Lg.	0.6250"x11"x1'-0" Lg.	112'-0" (B)	112'-0" (B)	RE: 2/S4.1		RB06
RB07	W16x40+P	A992, Gr. 50	15.0 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-3" Lg.	0.3750"x7"x1'-3" Lg.	112'-0" (B)	112'-0" (B)	RE: 2/S4.1		RB07
RB08	W8x28+P	A992, Gr. 50	6.0 kips	1/S4.1	1/S4.2	0.3750"x7"x1'-3" Lg.	0.4375"x7"x1'-0" Lg.	118'-1" (B)	118'-1" (B)	RE: 2/S4.1		RB08
RB09	W8x28+P	A992, Gr. 50	11.9 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0" Lg.	0.3750"x7"x1'-0" Lg.	117'-5" (B) (V.I.F.)	117'-5" (B) (V.I.F.)	RE: 2/S4.1		RB09

BEAM SCHEDULE NOTES:

1. "TAG END" REFERS TO THE END OF THE BEAM WITH THE BEAM MARK NUMBER ON THE PLAN.
2. BEAMS MAY BE FABRICATED USING MATERIAL CONFORMING TO ASTM SPECIFICATION A992, GRADE 50 IN LIEU OF THE MATERIAL SPECIFIED AT THE FABRICATOR'S OPTION. IT SHALL BE NOTED ON THE SHOP DRAWINGS IF THIS OPTION IS EXERCISED.
3. THE DETAILER SHALL INDICATE THE APPROPRIATE BEAM MARK NUMBERS FROM THESE DRAWINGS ON EACH BEAM DETAIL IN THE SHOP DRAWINGS. FAILURE TO COMPLY WITH REQUIREMENT WILL RESULT IN REJECTION OF THE SHOP DRAWING SUBMITTAL.
4. THE ELEVATIONS SHOWN HEREIN ARE THE TOP OF STEEL ELEVATIONS (U.N.O.) AT THE INTERSECTION OF CENTER LINES OF THE BEAM UNDER CONSIDERATION AND THE BEAM OR COLUMN INTO WHICH THAT BEAM FRAMES. WHERE BEAM ELEVATION IS MARKED WITH A (B), THE SPECIFIED ELEVATION IS THE BOTTOM OF STEEL ELEVATION.
5. THE COLUMN IN THE SCHEDULE IDENTIFIED AS "SECTION" REFERENCES (RE:) APPLICABLE SECTIONS AND DETAILS THROUGH THE BEAM.
6. WHERE STEEL BEAMS SUPPORT CONCRETE MASONRY UNITS (CMU) AND / OR BRICK, THE STEEL FABRICATOR SHALL PROVIDE PLATES INDICATED IN SECTION 2/S4.1. THE CONTRACTOR SHALL COORDINATE THE NEED FOR BOTTOM PLATES SHOWN IN THESE SECTIONS BETWEEN THE MASON AND STEEL FABRICATOR. WHERE BEAM MARK NUMBERS INCLUDE "+P" [e.g. B-15 (W16x45+P)], TOP AND / OR BOTTOM FLANGE PLATES PER SECTION 2/S4.1 ARE A STRUCTURAL REQUIREMENT. AN EFFORT HAS BEEN MADE TO IDENTIFY BEAMS w/ "+P" WHERE PLATES MAY REQUIRED BY THE ARCHITECTURAL DRAWINGS. HOWEVER, ALL SUCH BEAMS MAY NOT BE TAGGED w/ "+P". THE CONTRACTOR IS RESPONSIBLE TO FURNISH PLATES WELDED TO BEAM FLANGES PER THE REFERENCED SECTIONS WHERE REQUIRED BY THE ARCHITECTURAL DRAWINGS WHETHER SUCH BEAMS ARE IDENTIFIED w/ "+P" ON THE STRUCTURAL PLANS OR NOT.
7. WHERE STEEL BEAMS ARE SUPPORTED ON MASONRY (CMU), A BEAM BEARING PLATE SHALL BE PROVIDED PER DETAIL A/S4.1 (RE: 1/S4.1 & 3/S4.1). ALL BEAMS INDICATED ON THE PLAN TO BE SUPPORTED ON CMU SHALL BE PROVIDED WITH A BEAM BEARING PLATE PER THE BEAM SCHEDULE. WHERE NO BEARING PLATE IS INDICATED IN THE BEAM SCHEDULE, THE PLATE SIZE SHALL BE BASED ON THE BEAM IN THAT SCHEDULE THAT IS MOST SIMILAR TO THE BEAM UNDER CONSIDERATION.

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS - ALL MAY NOT APPLY TO THIS PROJECT

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY — WILLIAM E. GRIGSBY, JR. — 16114 — LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

TYPICAL BAR JOIST, METAL DECK and STEEL FRAMING DETAILS STEEL BEAM SCHEDULE

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

REVISIONS

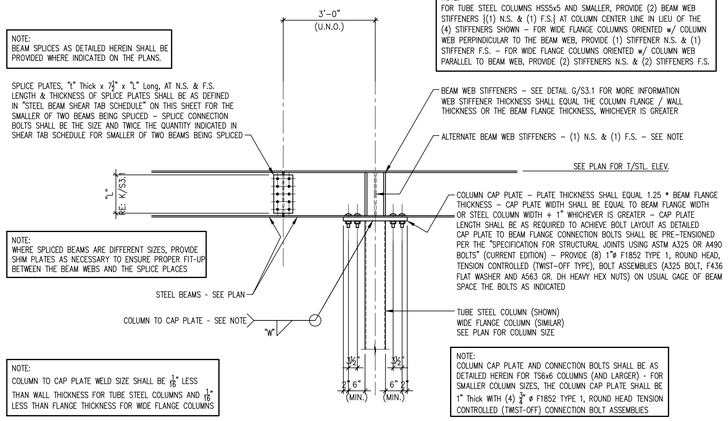
No.	Description	Date

SHEET

S3.0

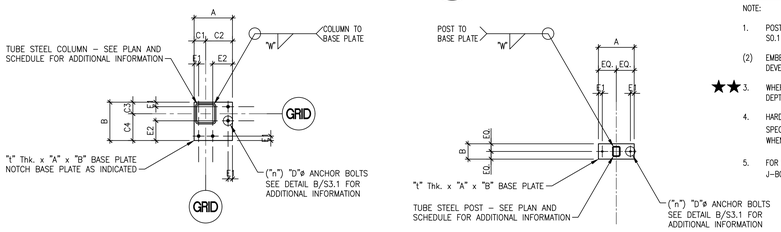
NOTE:
BEAM SPLICES AS DETAILED HEREIN SHALL BE PROVIDED WHERE INDICATED ON THE PLANS.

NOTE:
FOR TUBE STEEL COLUMNS HSS5x5 AND SMALLER, PROVIDE (2) BEAM WEB STIFFENERS @(1) N.S. & (1) F.S.@ AT COLUMN CENTER LINE IN LIEU OF THE (4) STIFFENERS SHOWN – FOR WIDE FLANGE COLUMNS ORIENTED w/ COLUMN WEB PERPINDICULAR TO THE BEAM WEB, PROVIDE (1) STIFFENER N.S. & (1) STIFFENER F.S. – FOR WIDE FLANGE COLUMNS ORIENTED w/ COLUMN WEB PARALLEL TO BEAM WEB, PROVIDE (2) STIFFENERS N.S. & (2) STIFFENERS F.S.

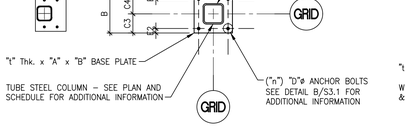


COLUMN CAP PLATE

TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — A S3.1

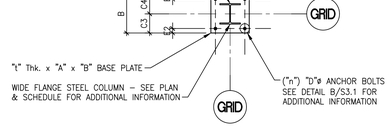


TUBE STEEL COLUMN w/ CORNER BASE PLATE



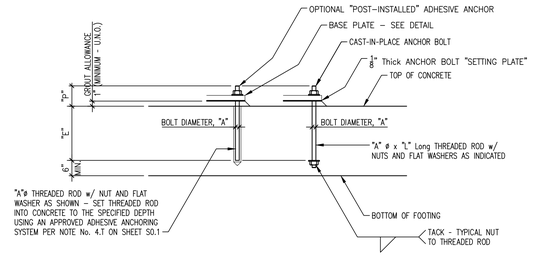
TUBE STEEL COLUMN BASE PLATE

TUBE STEEL POST BASE PLATE



WIDE FLANGE COLUMN BASE PLATE

TYPICAL DETAIL - COLUMN BASE PLATES
SCALE: 1/2" = 1'-0" — E S3.1



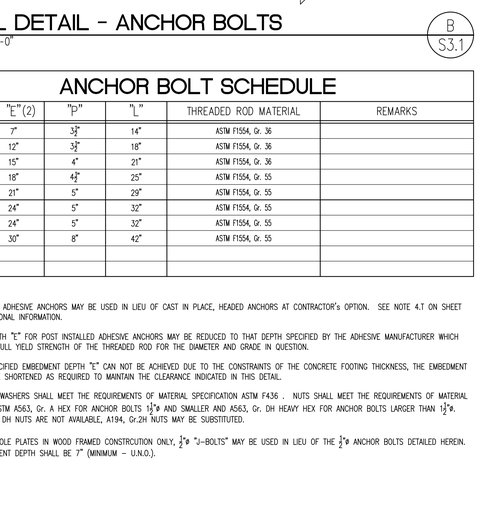
TYPICAL DETAIL - ANCHOR BOLTS
SCALE: 1/2" = 1'-0" — B S3.1

ANCHOR BOLT SCHEDULE

"A"	"E" (2)	"h"	"L"	THREADED ROD MATERIAL	REMARKS
½"	7"	3½"	14"	ASTM F1554, Gr. 36	
⅝"	12"	3½"	18"	ASTM F1554, Gr. 36	
¾"	15"	4"	21"	ASTM F1554, Gr. 36	
1"	18"	4½"	25"	ASTM F1554, Gr. 55	
1⅛"	21"	5"	29"	ASTM F1554, Gr. 55	
1¼"	24"	5"	32"	ASTM F1554, Gr. 55	
1½"	24"	5"	32"	ASTM F1554, Gr. 55	
2"	30"	6"	42"	ASTM F1554, Gr. 55	

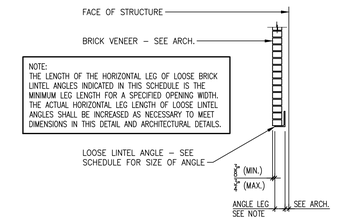
NOTE:

1. POST INSTALLED, ADHESIVE ANCHORS MAY BE USED IN LIEU OF CAST IN PLACE, HEADED ANCHORS AT CONTRACTOR's OPTION. SEE NOTE 4.T ON SHEET S0.1 FOR ADDITIONAL INFORMATION.
(2) EMBEDMENT DEPTH "E" FOR POST INSTALLED ADHESIVE ANCHORS MAY BE REDUCED TO THAT DEPTH SPECIFIED BY THE ADHESIVE MANUFACTURER WHICH DEVELOPS THE FULL YIELD STRENGTH OF THE THREADED ROD FOR THE DIAMETER AND GRADE IN QUESTION.
★★3. WHERE THE SPECIFIED EMBEDMENT DEPTH "E" CAN NOT BE ACHIEVED DUE TO THE CONSTRAINTS OF THE CONCRETE FOOTING THICKNESS, THE EMBEDMENT DEPTH SHALL BE SHORTENED AS REQUIRED TO MAINTAIN THE CLEARANCE INDICATED IN THIS DETAIL.
4. HARDENED FLAT WASHERS SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION ASTM F436 . NUTS SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION ASTM A563, Gr. A HEX FOR ANCHOR BOLTS 1¼"ø AND SMALLER AND A563, Gr. DH HEAVY HEX FOR ANCHOR BOLTS LARGER THAN 1¼"ø. WHEN A563, Gr. DH NUTS ARE NOT AVAILABLE, A194, Gr.2H NUTS MAY BE SUBSTITUTED.
5. FOR WOOD 2x SOLE PLATES IN WOOD FRAMED CONSTRCUTION ONLY, ⅝"ø "J-BOLTS" MAY BE USED IN LIEU OF THE ½"ø ANCHOR BOLTS DETAILED HEREIN. J-BOLT EMBEDMENT DEPTH SHALL BE 7" (MINIMUM – U.N.O.).



BEAM WEB STIFFENER DETAIL

TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — G S3.1



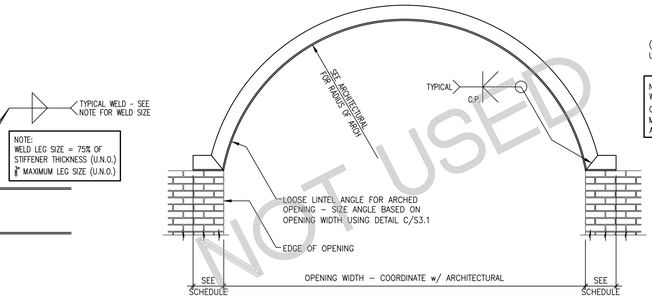
LOOSE LINTEL ANGLES

TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — C S3.1

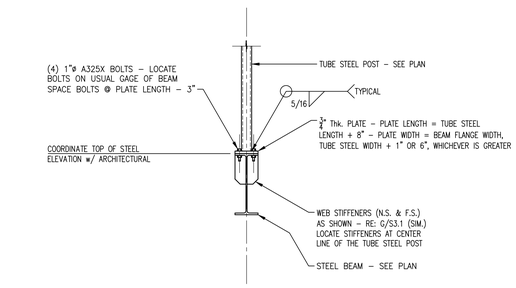
LOOSE LINTEL ANGLE SCHEDULE

MAXIMUM OPENING WIDTH	BRICK LINTEL ANGLE	REQUIRED BEARING LENGTH
6'-0"	L 3-1/2x3-1/2x 5/16"	8"
7'-4"	L 4x3-1/2x 3/8" (LLV)	8"
9'-4"	L 5x3-1/2x 3/8" (LLV)	8"
11'-4"	L 6x4x 3/8" (LLV)	8"
13'-4"	L 7x4x 1/2" (LLV)	8"
14'-8"	L 8x4x 1/2" (LLV)	12"
GREATER THAN 14'-8"	SEE NOTE BELOW	

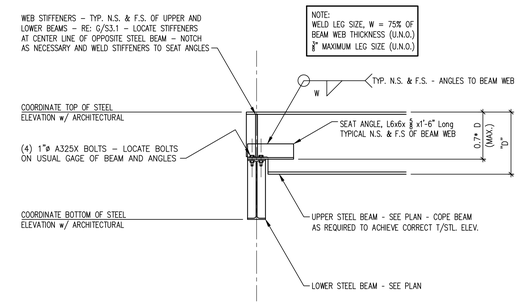
HORIZONTAL LEG LENGTH SPECIFIED IS A MINIMUM - SEE NOTE FOR ACTUAL LEG LENGTH
THIS SCHEDULE IS BASED ON A BRICK WEIGHT OF 45 POUNDS PER SQUARE FOOT (psf)
ALL BRICK LINTEL ANGLES SHALL BE HOT DIP GALVANIZED.
RE: E/S4.0 FOR BRICK LINTELS @ OPENINGS GREATER THAN 14'-8" IN CMU WALLS



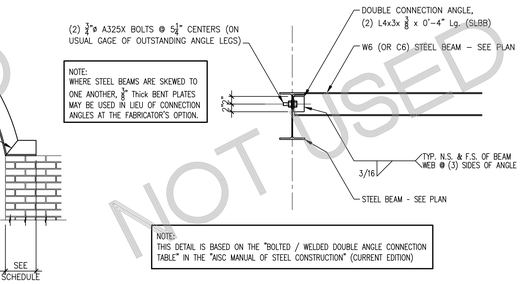
TYPICAL DETAIL - LINTEL ANGLE @ ARCH
SCALE: 1/2" = 1'-0" — H S3.1



TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — D S3.1



TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — F S3.1



W6 / C6 CONNECTION

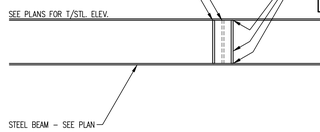
TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — J S3.1

TYPICAL SHEAR TAB

SHEAR TAB TO BEAM WEB

NOTE:
THE HORIZONTAL EDGE DISTANCE, "E" SHALL BE TWO (2) TIMES THE BOLT DIAMETER, "D"

SHEAR TAB TO T.S. COLUMN (BEAM @ ONE SIDE ONLY)



SHEAR TAB TO T.S. COLUMN (BEAMS @ BOTH SIDES)

TYPICAL DETAIL - SINGLE-PLATE BEAM CONNECTION
SCALE: 1/2" = 1'-0" — K S3.1

TYPICAL DOUBLE ANGLE CONNECTION

DOUBLE ANGLE TO BEAM WEB CONNECTION

TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — L S3.1

STEEL BEAM CONNECTION SCHEDULE

BEAM SIZE	"t"	"n"	"L"	"W"	"D"	DESIGN REACTION	REMARKS
W8x24 & W8x28	5/16"	2	6.0"	5/16"	¾"ø	10.0 kips	
W12x26 & W12x30	5/16"	3	9.0"	5/16"	¾"ø	25.0 kips	
W16x26 & W16x31	5/16"	4	12.0"	1"	¾"ø	35.0 kips	
W16x36, W16x40 & W16x45	⅜"	4	12.0"	1"	¾"ø	50.0 kips	
W16x57 & W16x67	7/16"	4	12.0"	5/16"	1"ø	60.0 kips	
W16x100	½"	4	12.0"	5/16"	1"ø	75.0 kips	A572, Gr. 50 SHEAR TAB
W21x44	9/16"	6	18.0"	¼"	¾"ø	75.0 kips	
W24x55 & W24x62	9/16"	7	21.0"	¼"	¾"ø	85.0 kips	

NOTES:

1. THIS SCHEDULE ASSUMES ALL CONNECTION BOLTS TO BE A325X (U.N.O.) INSTALLED "SNUG-TIGHT" (U.N.O.)
2. THIS SCHEDULE AND ACCOMPANYING DETAILS ARE BASED ON THE "SINGLE-PLATE CONNECTIONS TABLES" AND THE "BOLTED / WELDED DOUBLE-ANGLE CONNECTIONS TABLES" IN THE "AISC MANUAL OF STEEL CONSTRUCTION" (CURRENT EDITION). FOR DEFINITION OF DIMENSIONS AND OTHER TERMS CONTAINED IN THIS SCHEDULE – SEE SECTION K/S3.1 FOR SINGLE-PLATE (SHEAR TAB) CONNECTIONS AND SECTIONS L/S3.1 FOR DOUBLE- ANGLE CONNECTIONS. DOUBLE ANGLE CONNECTIONS SHALL BE DETAILED USING "WELD A" PER AISC TABLE.
3. CAPACITIES ASSUME BEAMS ARE NOT COPED. CAPACITIES MUST BE REDUCED PER AISC SPECIFICATIONS FOR BEAMS WITH COPED FLANGES.
4. FOR SINGLE-PLATE CONNECTIONS ON SKEWED BEAMS WHERE THE SKEW OF THE SHEAR TAB RESTRICTS INSTALLATION OF CONNECTION BOLTS, THE 2" DIMENSION MAY BE INCREASED TO 3½" (MAX.) TO ALLOW BOLT INSTALLATION.
5. TO ACCOMMODATE ERECTION TOLERANCES, THE BOLT HOLES MAY BE HORIZONTAL "SHORT SLOTTED HOLES".
6. ANY BEAM SHOWN ON PLAN FRAMING INTO ANOTHER STEEL ELEMENT (BEAM OR COLUMN) THAT IS NOT SHOWN IN THIS SCHEDULE SHALL HAVE A CONNECTION DETAILED IN ACCORDANCE WITH THIS SCHEDULE. SHEAR TAB SHALL BE SIZED FOR A BEAM SHOWN IN THIS SCHEDULE THAT IS FROM THE SAME "BEAM FAMILY" AS THE BEAM IN QUESTION.

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS - ALL MAY NOT APPLY TO THIS PROJECT

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TAYLORSVILLE, KY

TYPICAL STEEL FRAMING DETAILS

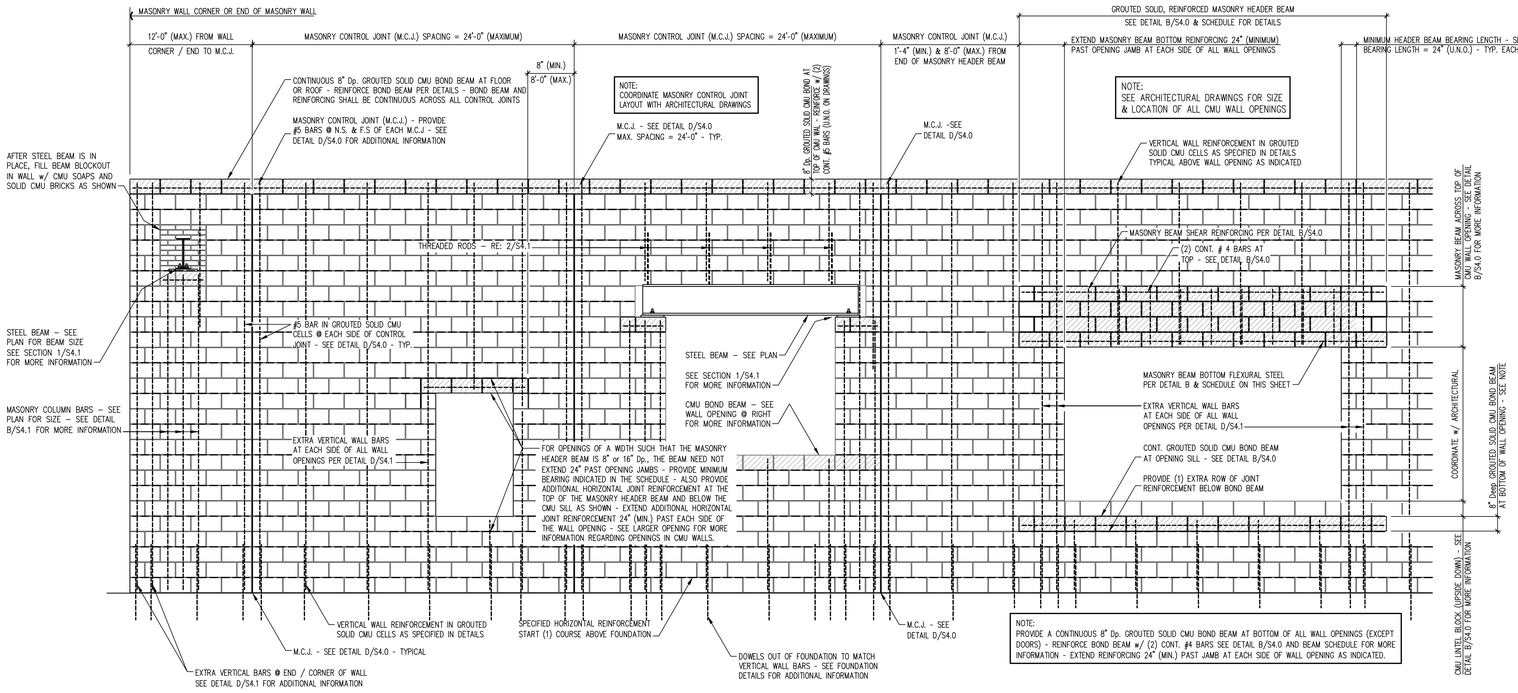
JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

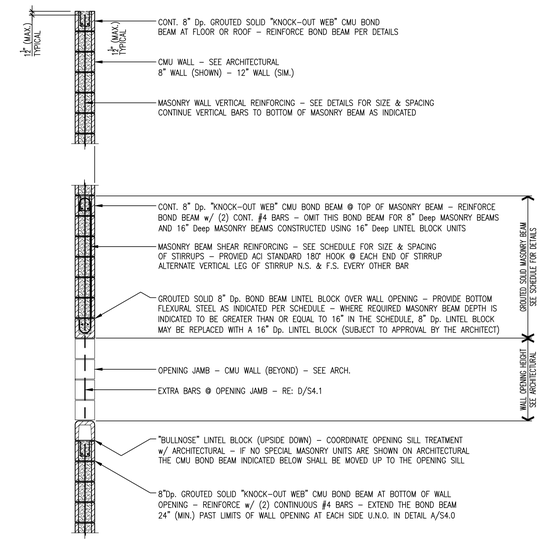
SHEET
S3.1

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



MASONRY (CMU) WALL OPENINGS, JOINTS + REINFORCING

TYPICAL DETAIL
SCALE: NONE
A / S4.0



TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
B / S4.0

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS - ALL MAY NOT APPLY TO THIS PROJECT.

MASONRY HEADER BEAM SCHEDULE

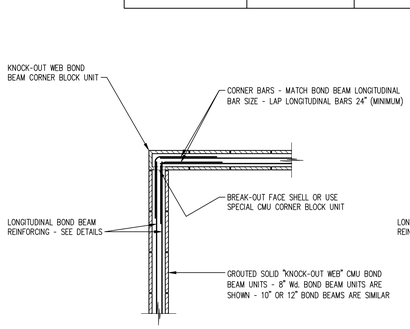
WALL OPENING MARK No. (1)	OPENING WIDTH	CMU WALL THICKNESS	CMU HEADER BEAM DEPTH	CMU HEADER BEAM LOAD	CMU BOND BEAM FLEXURAL REINFORCING	CMU BOND BEAM SHEAR REINFORCING	MINIMUM BEARING LENGTH	REMARKS
A	3'-4"	8"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR
B	4'-0"	8"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR
C					HEADER NOT USED			
D	3'-4"	12"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR - CAFETERIA
E	5'-4"	12"	24"		(2) #5	NONE REQUIRED	24"	INTERIOR PASS THRU - CAFETERIA
F	6'-4"	12"	40"		(2) #5	NONE REQUIRED	24"	INTERIOR DOUBLE DOOR
G	12'-0"	12"	40"		(2) #6	NONE REQUIRED	24"	INTERIOR ROLL-UP DOOR - CAFETERIA
H	4'-0"	12"	40"		(2) #7	NONE REQUIRED	24"	EXTERIOR DOOR
J	6'-4"	12"	16"		(2) #5	NONE REQUIRED	24"	EXTERIOR DOUBLE DOOR
K	8'-0"	8"	40"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR - VESTIBULE
L	5'-4"	12"	16"		(2) #5	NONE REQUIRED	24"	EXTERIOR WINDOW - MULTI PURPOSE

ALLOWED INSTALLATION LOCATION FOR POST INSTALL ANCHOR BOLTS
(KWIK BOLTS AND EPOXY ANCHORS)

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
G / S4.0

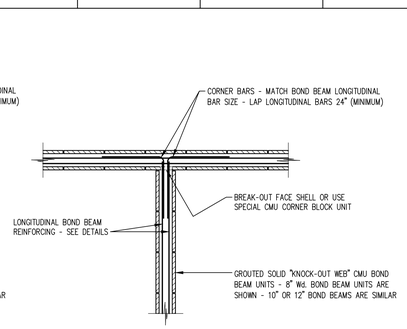
MASONRY HEADER BEAM SCHEDULE NOTES:

1. WALL OPENING MARK NUMBERS ARE IDENTIFIED IN HEXAGONS ON THE FRAMING PLANS FOR THE PLAN DIRECTLY ABOVE THE OPENING.
2. AT CONTRACTOR'S OPTION, THE CMU BOND BEAM HEADER OVER WALL OPENINGS MAY BE REPLACED WITH A STEEL BEAM (+ PLATE TO CARRY CMU SOAPS AND / OR BRICK VENEER). CONTACT THE STRUCTURAL ENGINEER FOR STEEL BEAM SIZE. BEAM SHALL BE SUPPORTED AT EACH END PER SECTION 1/S4.1. CONSTRUCT CMU WALL ABOVE STEEL BEAM AND PROVIDE STEEL PLATE PER SECTION 2/S4.1.
3. ALL STEEL LINTEL ANGLES & STEEL BEAMS (+ PLATE) SHALL BE HOT-DIPPED GALVANIZED.
4. WHERE MASONRY OPENINGS ARE SHOWN ON ARCHITECTRUAL DRAWINGS BUT NOT INDICATED ON STRUCTURAL DRAWINGS (e.g. PARTITIOIN WALLS & NON-BEARING WALLS), THE MASON SHALL PROVIDE A REINFORCED CMU HEADER BEAM DETAILED PER THIS SCHEDULE USING THE OPENING THAT MOST CLOSELY RESEMBLES MASONRY OPENING IN QUESTION.



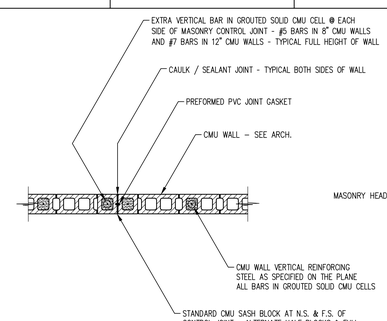
CMU WALL CORNER

TYPICAL DETAIL - CMU BOND BEAM CORNER BARS
SCALE: 1/2" = 1'-0"
C / S4.0



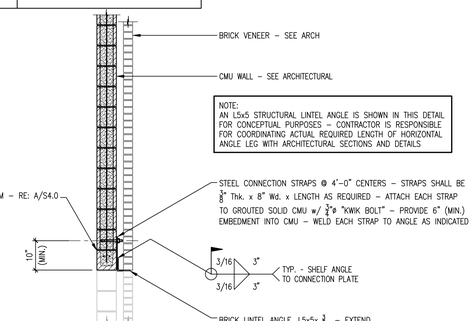
CMU WALL INTERSECTION

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
D / S4.0



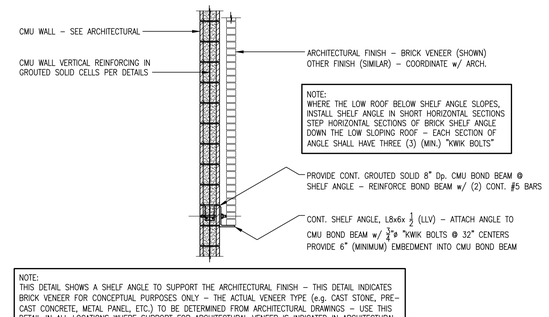
MASONRY CONTROL JOINT (M.C.J.)

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
E / S4.0



STRUCTURAL BRICK LINTEL

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
F / S4.0



BRICK SHELF ANGLE

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
G / S4.0

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TAYLORSVILLE, KY

MASONRY HEADER BEAM SCHEDULE
TYPICAL MASONRY DETAILS

JOB NO.	1933
DATE	12/16/2019
DRAWN	grIggs, DEM
CHECKED	WEG/BKL

REVISIONS

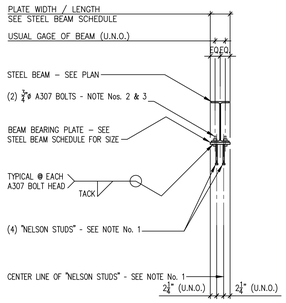
No.	Description	Date

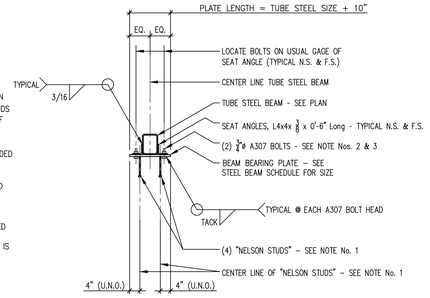
SHEET
S4.0

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

NOTES:

1. EACH BEAM BEARING PLATE SHALL HAVE (4) $\frac{1}{2}$"ø x 8" Lg. (AW) "NELSON STUDS" AUTOMATICALLY WELDED TO STEEL BEARING PLATE. NELSON STUDS SHALL BE OFFSET $2\frac{1}{2}$" (U.N.O.) FROM PLATE EDGE AT EACH SIDE AS INDICATED. FOR BEARING PLATES LONGER THAN 1'-9" PROVIDE TWO (2) ADDITIONAL "NELSON STUDS" (TOTAL OF SIX) @ MID-LENGTH OF THE PLATE.
2. PROVIDE (2) $\frac{3}{4}$"ø A307 BOLTS AS SHOWN – PROVIDE COMPATIBLE NUTS AND FLAT WASHERS AS REQUIRED. SHOP WELD EACH BOLT HEAD TO THE BOTTOM OF THE BEAM BEARING PLATE AS INDICATED. BOLTS SHALL BE CENTERED ON PLATE WIDTH OR PLATE LENGTH (AS APPLICABLE) AND SPACED AT "USUAL GAGE" OF STEEL BEAM (FOR WIDE FLANGES) OR AS INDICATED FOR TUBE STEEL. FOR BEAMS w/ 4" FLANGE WIDTH AND LESS, USE $\frac{5}{8}$"ø A307 BOLTS.
3. AT FABRICATOR'S OPTION, A307 BOLTS MAY BE REPLACED WITH (2) CPL $\frac{3}{4}$"–10 UNC x 1½" Lg. THREADED "NELSON STUDS". THE THREADED "NELSON STUDS" SHALL BE AUTOMATICALLY SHOP WELDED TO THE BEARING PLATE. STUDS SHALL BE CENTERED ON PLATE WIDTH OR PLATE LENGTH (AS APPLICABLE) AND SPACED AT THE "USUAL GAGE" OF THE BEAM (FOR WIDE FLANGES) OR AS INDICATED FOR TUBE STEEL.
4. PROVIDE (2) $\frac{3}{4}$" x 3" Long SLOTTED HOLES IN THE BEAM FLANGE TO ACCOMMODATE THE A307 BOLTS (OR THREADED NESLON STUDS). SLOTS SHALL BE PARALLEL TO LENGTH OF THE BEAM.
5. RE: 1/S4.1 FOR MORE INFORMATION REGARDING BEAM BEARING PLATES ON CMU WALLS. ORIENT THE LEAST STUD LAYOUT DIMENSION TO FIT WITHIN THE CMU BOND BEAM AS INDICATED IN THE REFERENCED SECTIONS.
6. SEE THE "STEEL BEAM SCHEDULE" FOR BEAM BEARING PLATE SIZES. FOR BEAMS BEARING ON CMU WALLS THE PLATE WIDTH SHALL BE 7" (8" CMU) OR 11" (12" CMU). THE PLATE LENGTH IS THE PLATE DIMENSION MEASURED PARALLEL TO THE LENGTH OF THE CMU WALL. ALL BEAMS INDICATED ON THE PLAN TO BE SUPPORTED ON CMU WALLS SHALL BE PROVIDED WITH A BEAM BEARING PLATE PER THE BEAM SCHEDULE. WHERE NO BEARING PLATE IS INDICATED IN THE BEAM SCHEDULE, THE PLATE SIZE SHALL BE BASED ON THE BEAM IN THAT SCHEDULE THAT IS MOST SIMILAR TO THE BEAM UNDER CONSIDERATION.

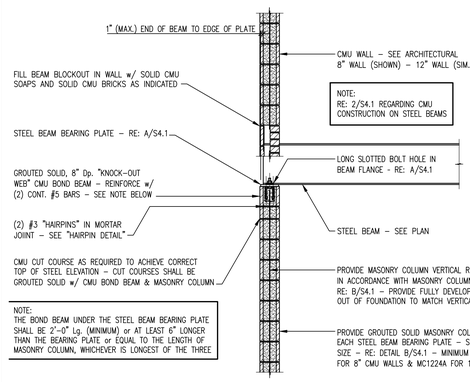




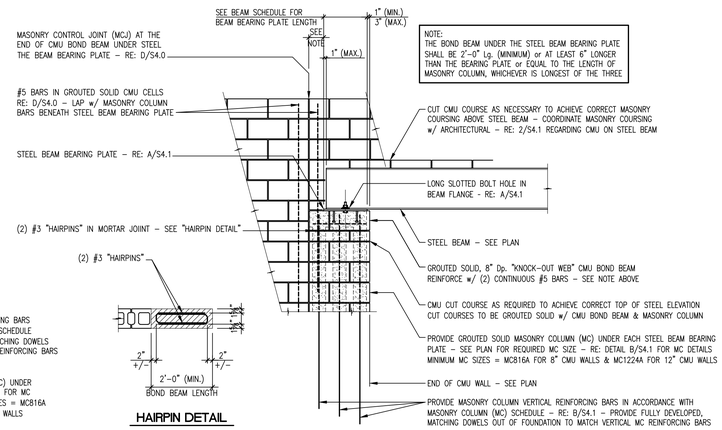
TYPICAL DETAIL – STEEL BEAM BEARING PLATES

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

A S4.1



BEAM PERPINDICULAR TO MASONRY WALL



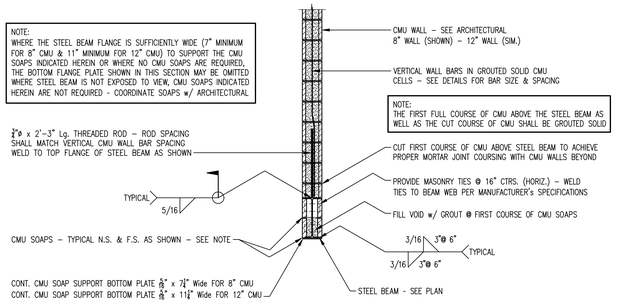
HAIRPIN DETAIL

BEAM PARALLEL TO MASONRY WALL

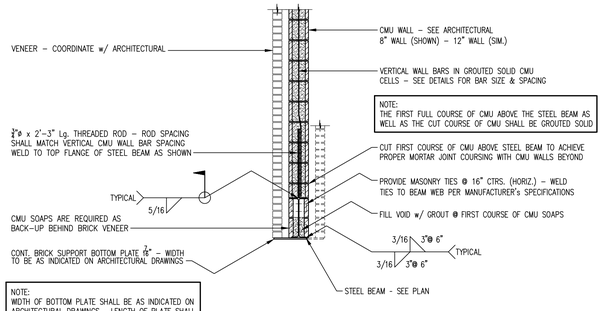
TYPICAL SECTION – STEEL BEAM ON MASONRY (CMU) WALL

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

1 S4.1



w/o BRICK

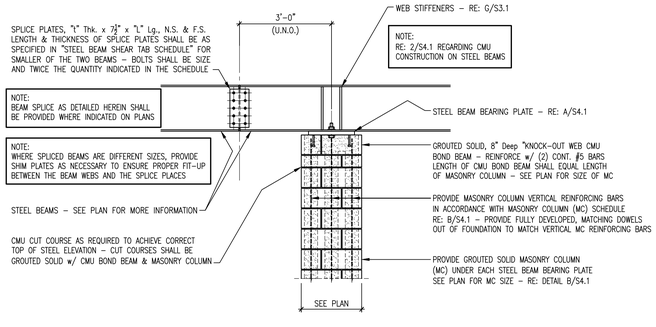


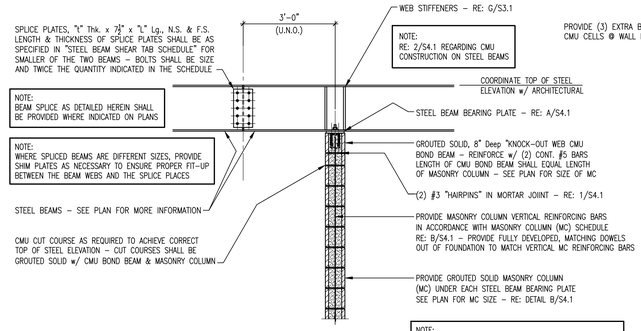
w/ BRICK

TYPICAL SECTION – CMU WALL ON STEEL BEAM

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

2 S4.1

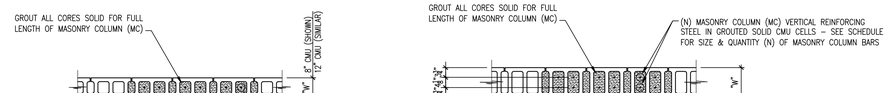




TYPICAL SECTION – STEEL BEAM ON MASONRY COLUMN

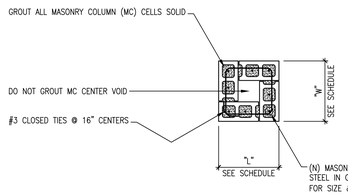
SCALE: 1/2" = 1'-0"

3 S4.1

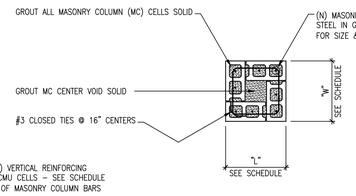


TYPE "A" MASONRY COLUMN

TYPE "C" MASONRY COLUMN



TYPE "B" MASONRY COLUMN



TYPE "D" MASONRY COLUMN

TYPICAL DETAIL – MASONRY COLUMNS (MC)

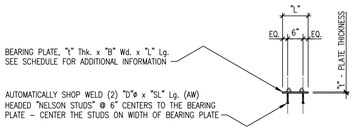
SCALE: 1/2" = 1'-0"

B S4.1

MASONRY COLUMN (MC) SCHEDULE

MARK No.	SIZE (WxL)	TYPE	REINFORCING (N)	REMARKS
MC824A	8"x24"	A	(3) #6	
MC832A	8"x32"	A	(4) #6	
MC1224C	12"x24"	C	(6) #7 BARS	
MC1232C	12"x32"	C	(2) ROWS OF (4) # 7BARS	
MC1248C	12"x48"	C	(2) ROWS OF (6) # 7BARS	
MC1264C	12"x64"	C	(2) ROWS OF (8) #7 BARS	
MC1272C	12"x72"	C	(2) ROWS OF (9) #7 BARS	
MC1296C	12"x96"	C	(2) ROWS OF (12) #7 BARS	

NOTE:
1. SEE DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.
2. VERTICAL REINFORCING FOR MASONRY COLUMN (MC) SHALL HAVE MATCHING DOWELS OUT OF FOUNDAITON. PROVIDE TENSION LAP SPLICE (48 BAR DIAMETERS).
3. CONCRETE MASONRY (CMU) PRISM STRENGTH; f'm = 1,900 psi BASED ON THE NET SECTION (U.N.O.).
4. MASONRY COLUMN (MC) GROUT STRENGTH; f'g = 2,500 psi (U.N.O.).
5. PROVIDE HORIZONTAL JOINT REINFORCEMENT (DUR–O–WAL) @ 8" CENTERS VERTICALLY – TYPICAL ALL MASONRY COLUMNS..
6. ALL MASONRY COLUMNS SHALL BE CONSTRUCTED USING "RUNNING BOND" CONSTRUCTION.



TYPICAL DETAIL – BEARING PLATES

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

C S4.1

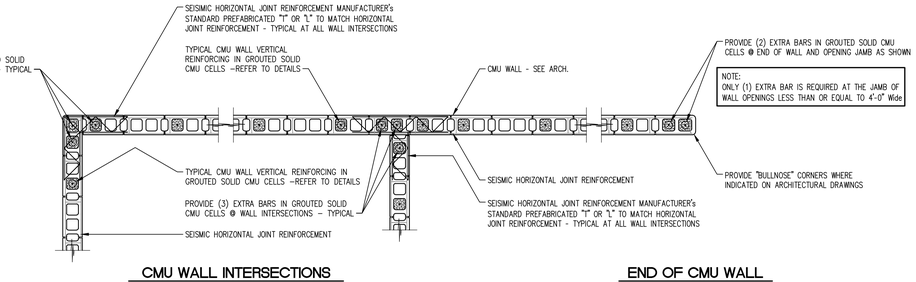
BEARING PLATE SCHEDULE

SUPPORTED STRUCTURAL MEMBER	"L"	"B"	"L"	"D"	"SL"	REMARKS
"K–SERIES" STEEL BAR JOIST	⅜"	4"	10"	⅝"	4"	
"LH–SERIES" STEEL BAR JOIST	⅜"	6"	10"	⅝"	6.375"	LH02 thru LH12
"LH–SERIES" STEEL BAR JOIST	⅜"	6"	12"	⅝"	6.375"	LH13 thru LH17
LIGHT GAUGE METAL TRUSS	⅜"	4"	10"	⅝"	4"	

NOTE: ERECTION BOLTS FOR OPEN–WEB STEEL BAR JOIST MAY BE REQUIRED BY OSHA OR SJI STANDARDS WHERE REQUIRED, ERECTION BOLTS SHALL BE AUTOMATICALLY WELDED TO BEARING PLATE USING (2) THREADED "NELSON CPL WELDING STUDS" OF THE SIZE REQUIRED BY THE CONTROLLING STANDARD ERECTION BOLTS SHALL NOT BE CONSTRUED AS A REPLACEMENT FOR SPECIFIED JOIST TO PLATE WELDS

NOTE: AT CONTRACTOR'S OPTION, INDIVIDUAL BEARING PLATES MAY BE REPLACED WITH A CONTINUOUS PLATE TO FACILITATE LAYOUT OF JOISTS / TRUSSES – CONTINUOUS PLATE WIDTH AND THICKNESS SHALL BE SAME AS INDIVIDUAL PLATES BEING REPLACED – CONTINUOUS PLATE SHALL HAVE "NELSON STUDS" OF SIZE SPECIFIED HEREIN @ 16" CENTERS ALONG THE LENGTH OF THE PLATE

NOTE: THE PLATE WIDTH (B) SHOWN IN THE SCHEDULE IS THE MINIMUM WIDTH REQUIRED FOR A SINGLE SPECIFIED STRUCTURAL MEMBER BEARING ON THE PLATE. WHERE ADJACENT SPANS OF STEEL "K" SERIES BAR JOISTS BEAR ON ONE (1) BEARING PLATE ON AN 8" CMU WALL, PROVIDE A 7" Wd. x 10" Lg. BEARING PLATE w/ (4) "NELSON STUDS" PER THIS DETAIL. WHERE ADJACENT SPANS OF "K" AND / OR "LH" SERIES BAR JOISTS BEAR ON ONE BEARING PLATE ON A 12" CMU WALL, PROVIDE AN 11" Square BEARING PLATE w/ (4) "NELSON STUDS" PER THIS DETAIL. IN ALL CASES USE THE LARGEST PLATE THICKNESS SPECIFIED IN THIS DETAIL FOR DIFFERENT MEMBERS BEING SUPPORTED ON A SINGLE PLATE.



CMU WALL INTERSECTIONS

END OF CMU WALL

NOTE: THIS DETAIL SHOWS EXTRA VERTICAL BARS REQUIRED FOR CMU WALLS AT INTERSECTIONS, CORNERS AND ENDS OF WALLS 8" CMU WALLS ARE SHOWN – 12" CMU WALLS ARE SIMILAR – THE SIZE OF THE EXTRA BARS SHALL MATCH VERTICAL WALL BARS SPECIFIED FOR THE CMU WALL IN QUESTION – CMU WALL VERTICAL BARS SHALL BE CENTERED IN GROUTED SOLID CMU CELLS – PROVIDE FULLY DEVELOPED MATCHING DOWELS OUT OF THE FOUNDATION FOR ALL VERTICAL BARS IN CMU WALLS

TYPICAL DETAIL – CMU WALL REINFORCING

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

D S4.1

NOTE: INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS – ALL MAY NOT APPLY TO THIS PROJECT.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY WILLIAM E. GRIGSBY, JR. 16114 LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KY

TYPICAL MASONRY DETAILS

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

REVISIONS

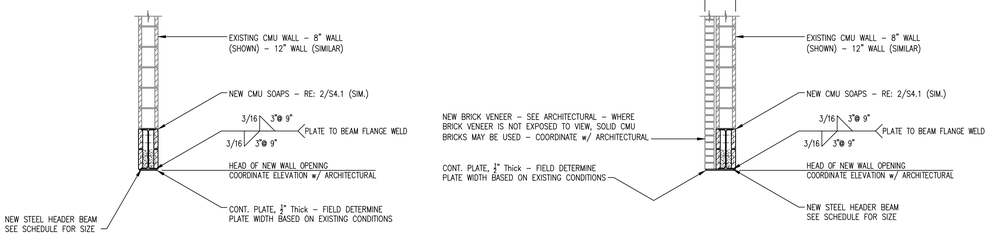
No.	Description	Date

SHEET

S4.1

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SHORING THE EXISTING MASONRY WALL PRIOR TO REMOVING CMU AND BRICK TO CREATE THE NEW WALL OPENINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. THE SHORING SHALL BE MAINTAINED UNTIL AFTER THE NEW STEEL LINTELS AND MASONRY OVER NEW OPENINGS ARE IN PLACE. CONTRACTOR SHALL SUBMIT SHORING PLAN TO ARCHITECT FOR REVIEW PRIOR TO STARTING CONSTRUCTION.



w/o BRICK

w/ BRICK

NOTE:
WHERE THE STEEL BEAM IS NOT EXPOSED, THE PLATE MAY BE LOCATED AT THE TOP FLANGE OF THE BEAM & THE CMU SOAPS MAY BE ELIMINATED – COORDINATE w/ ARCHITECTURAL

NOTE:
NEW STEEL LINTEL BEAM TO BE SUPPORTED ON STEEL BEAM BEARING PLATE AT EACH END PER SECTION 1 ON THIS SHEET

HEADER FOR NEW OPENING IN EXISTING MASONRY WALL
EXIST WALL w/ BRICK (SHOWN) – EXIST. WALL w/o BRICK (SIMILAR)

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

A S4.2

NEW STEEL HEADER BEAM SCHEDULE

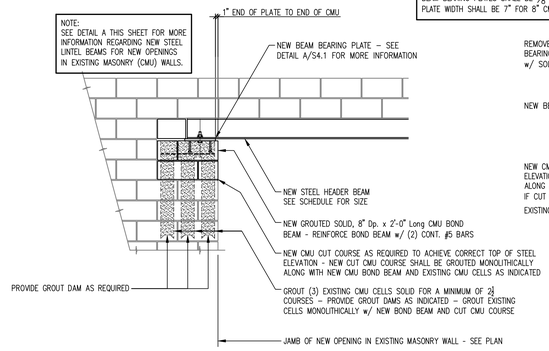
OPENING MARK NUMBER	MASONRY OPENING WIDTH	STEEL HEADER BEAM	BEAM BEARING PLATE	REMARKS
1	3'–4"	W8x28+P	0.375"x7"x0'-10" Lg.	NEW DOOR OPENING IN EXISTING INTERIOR 12" CMU WALL
2	3'–4"	W8x28+P	0.375"x7"x0'-10" Lg.	NEW DOOR OPENING IN EXISTING INTERIOR 8" CMU WALL

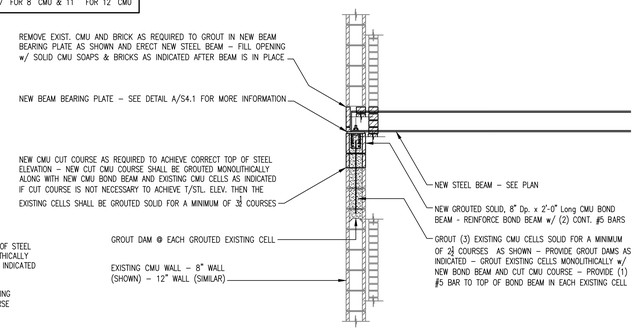
STEEL HEADER BEAM SCHEDULE NOTES:

1. WALL OPENING MARK NUMBERS ARE IDENTIFIED IN HEXAGONS ON THE FRAMING PLANS FOR THE PLAN DIRECTLY ABOVE THE OPENING.
2. SEE DETAIL A & SECTION 1 ON THIS SHEET FOR MORE INFORMATION.
3. ALL STEEL BEAMS SHALL HAVE FLANGE PLATES PER DETAIL A ON THIS SHEET FOR MORE INFORMATION – AT EXTERIOR WALLS, FLANGE PLATES SHALL BE HOT–DIPPED GALVANIZED.
4. WHERE OPENINGS IN EXISTING MASONRY WALLS ARE SHOWN ON ARCHITECTRUAL DRAWINGS BUT NOT INDICATED ON STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL PROVIDE A NEW STEEL HEADER BEAM DETAILED PER THIS SCHEDULE USING THE OPENING THAT MOST CLOSELY RESEMBLES MASONRY OPENING IN QUESTION.
5. DETAIL B ON THIS SHEET MAY BE USED FOR OPENINGS LESS THAN 4'–8" WIDE WITH THE ARCHITECT'S APPROVAL

NOTE:
SEE DETAIL A THIS SHEET FOR MORE INFORMATION REGARDING NEW STEEL LINTEL BEAMS FOR NEW OPENINGS IN EXISTING MASONRY (CMU) WALLS.

NOTE:
BEAM BEARING PLATES SHALL BE ⅜" Thk. x 1'–0" Lg. (U.N.O.)
PLATE WIDTH SHALL BE 7" FOR 8" CMU & 11 " FOR 12" CMU





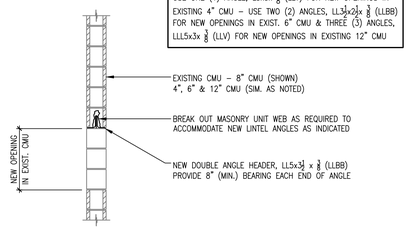
NEW STEEL BEAM PARALLEL TO EXISTING MASONRY WALL

NEW STEEL BEAM PERPINDICULAR TO EXISTING MASONRY WALL

TYPICAL SECTION – STEEL BEAM ON EXISTING MASONRY (CMU) WALL
SCALE: 1/2" = 1'-0"

1 S4.2

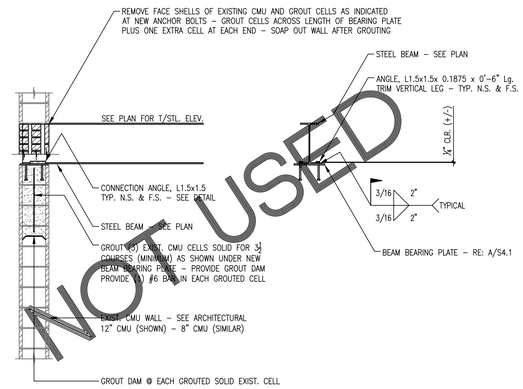
NOTE:
USE ONE (1) ANGLE, L5x3x ⅜ (LLV) FOR NEW OPENINGS IN EXISTING 4" CMU – USE TWO (2) ANGLES, LL3½x2½x ⅜ (LLBB) FOR NEW OPENINGS IN EXIST. 6" CMU & THREE (3) ANGLES, LL5.5x3x ⅜ (LLV) FOR NEW OPENINGS IN EXISTING 12" CMU



NEW OPENING IN EXISTING MASONRY WALL
4'–8" = MAXIMUM OPENING SIZE FOR THIS DETAIL

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

B S4.2



STEEL BEAM ON EXISTING MASONRY FIRE WALL

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

C S4.2

NOTE:
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SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

TYPICAL MASONRY DETAILS MODIFYING EXISTING MASONRY

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

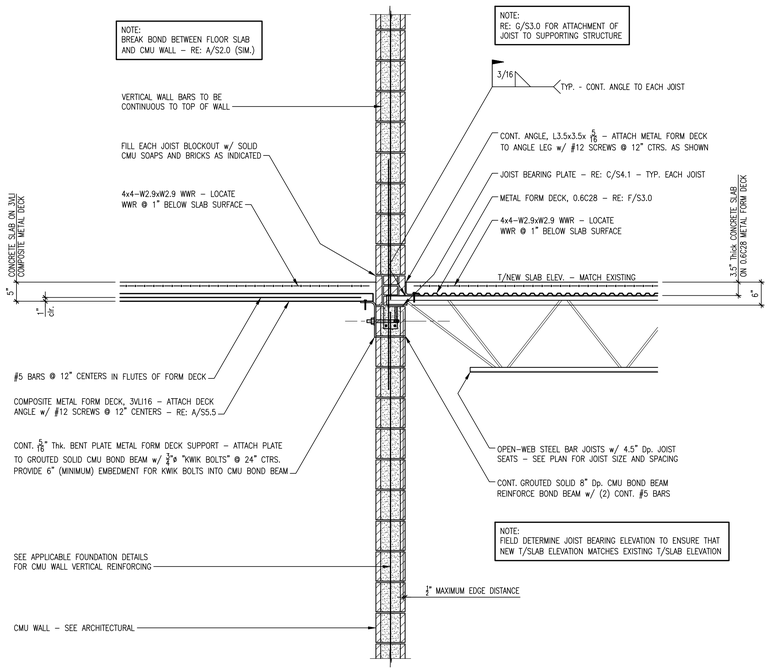
REVISIONS

No.	Description	Date

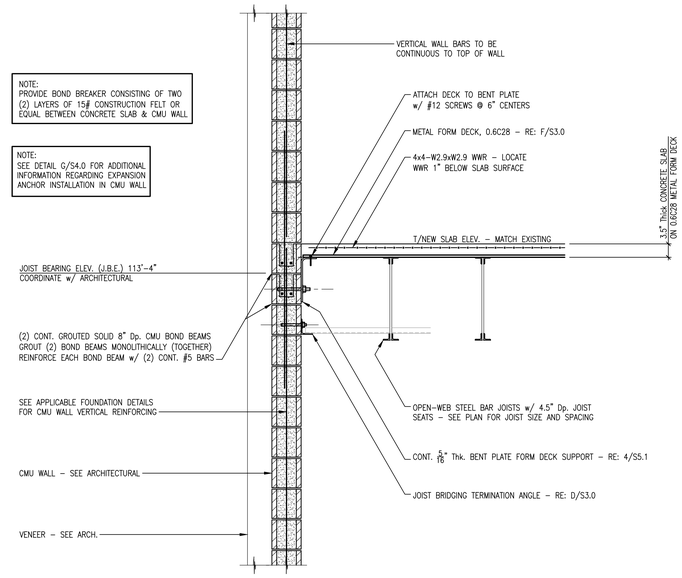
SHEET

S4.2

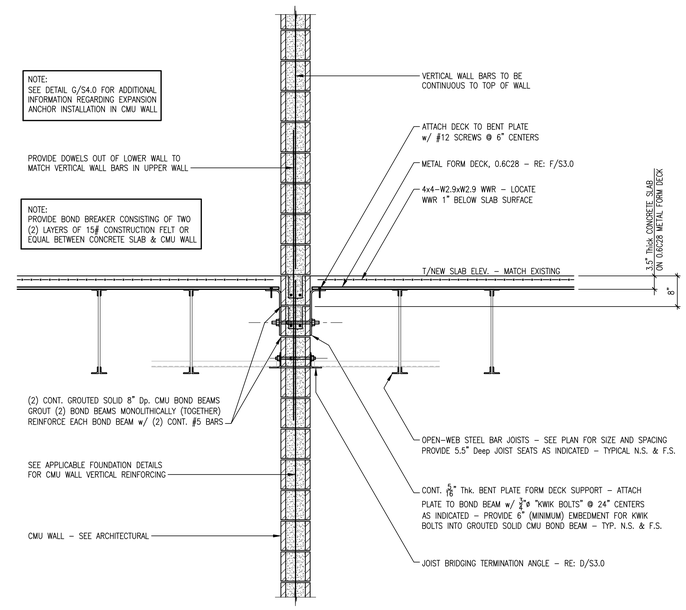
1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



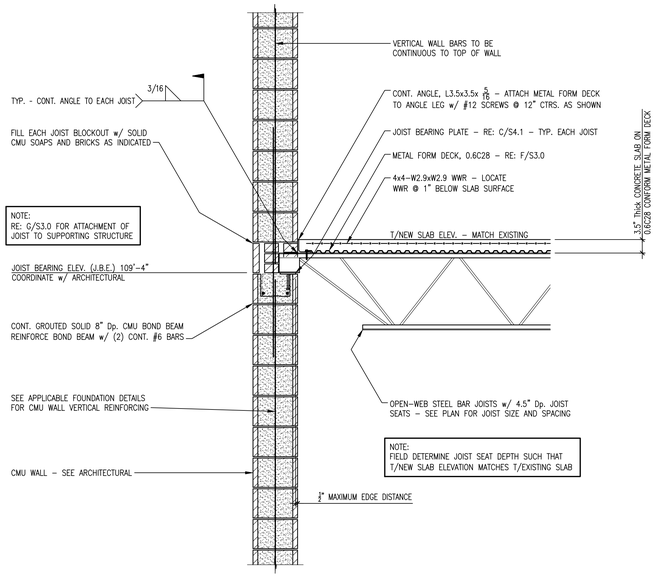
SECTION
SCALE: 3/4" = 1'-0"
1 S5.1



SECTION
SCALE: 3/4" = 1'-0"
2 S5.1



SECTION
SCALE: 3/4" = 1'-0"
3 S5.1



SECTION
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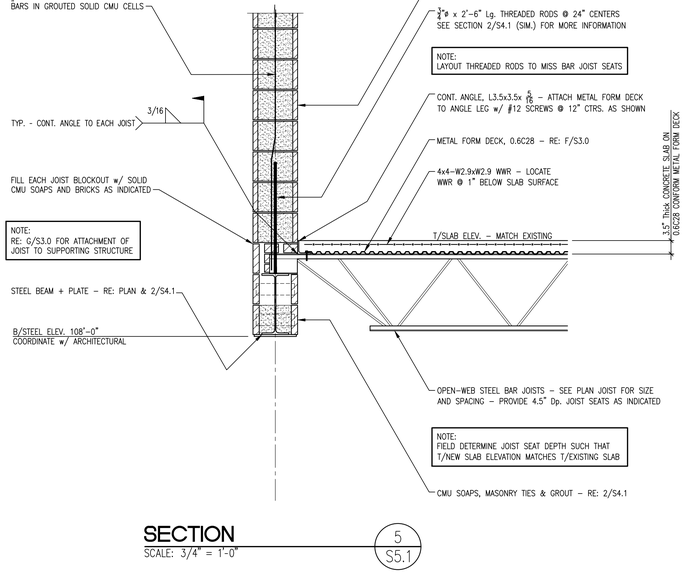
4 S5.1



SECTION
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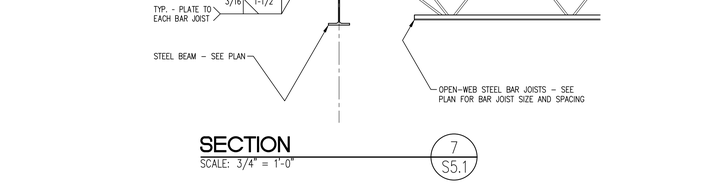
5 S5.1



SECTION
SCALE: 3/4" = 1'-0"
6 S5.1

SECTION
SCALE: 3/4" = 1'-0"
7 S5.1

1933
SPENCER COUNTY EARLY LEARNING CENTER
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TAYLORSVILLE, KENTUCKY

SHERMAN CARTER BARNHART ARCHITECTS

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

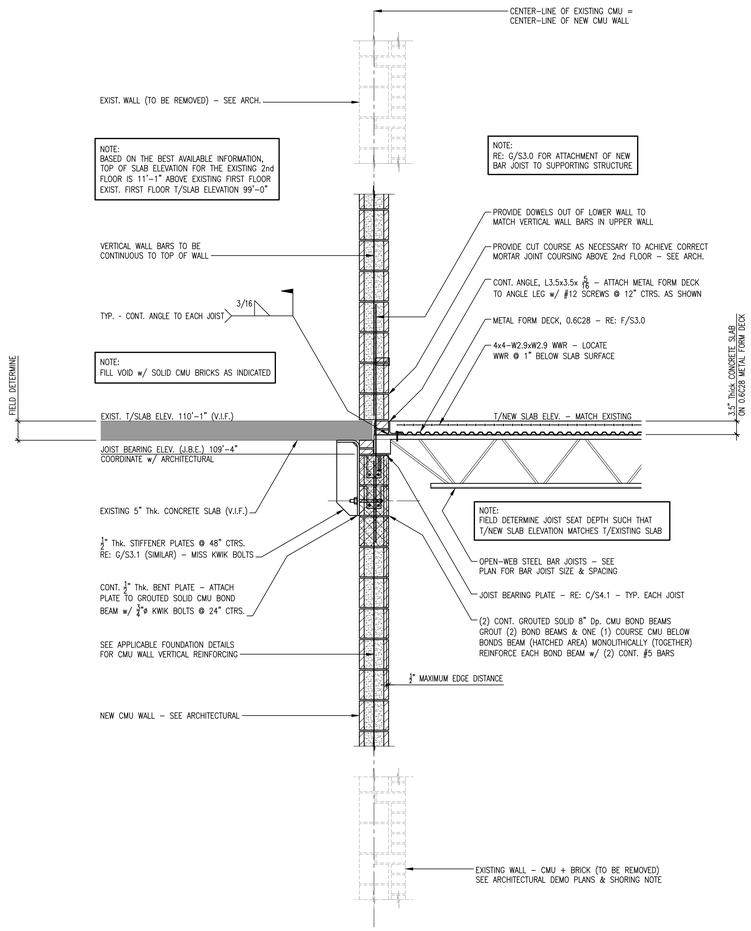
UPPER LEVEL STEEL FRAMING SECTIONS AND DETAILS

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

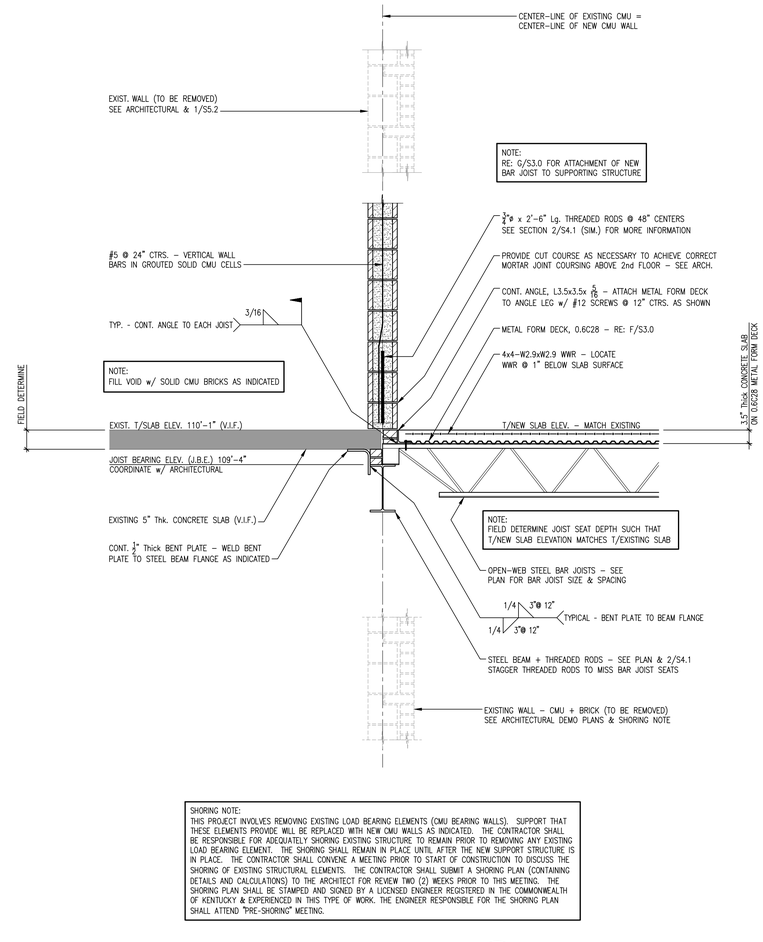
REVISIONS

No.	Description	Date

SHEET
S5.1



SECTION
SCALE: 3/4" = 1'-0"
1 S5.2



SECTION
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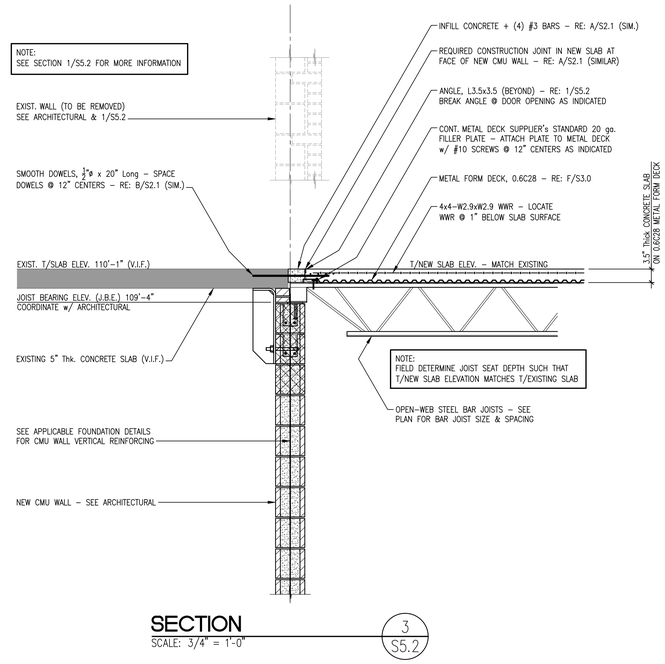
2 S5.2



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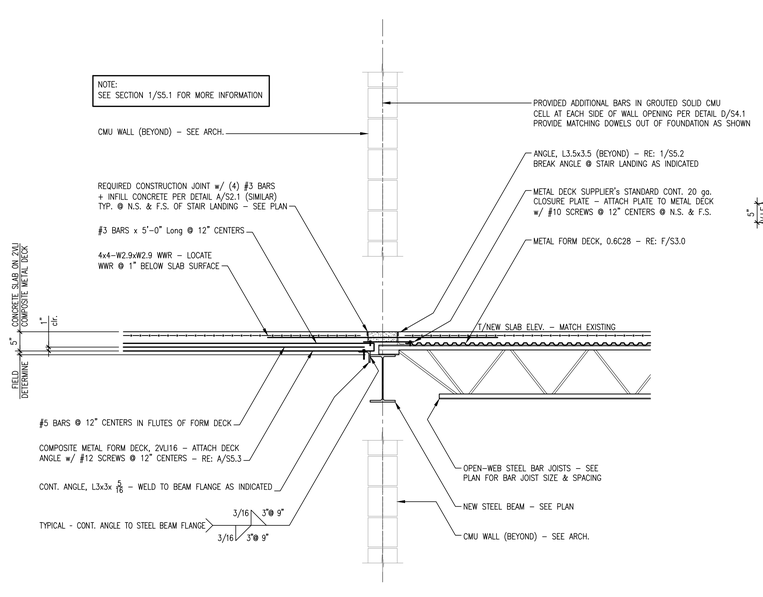
3 S5.2



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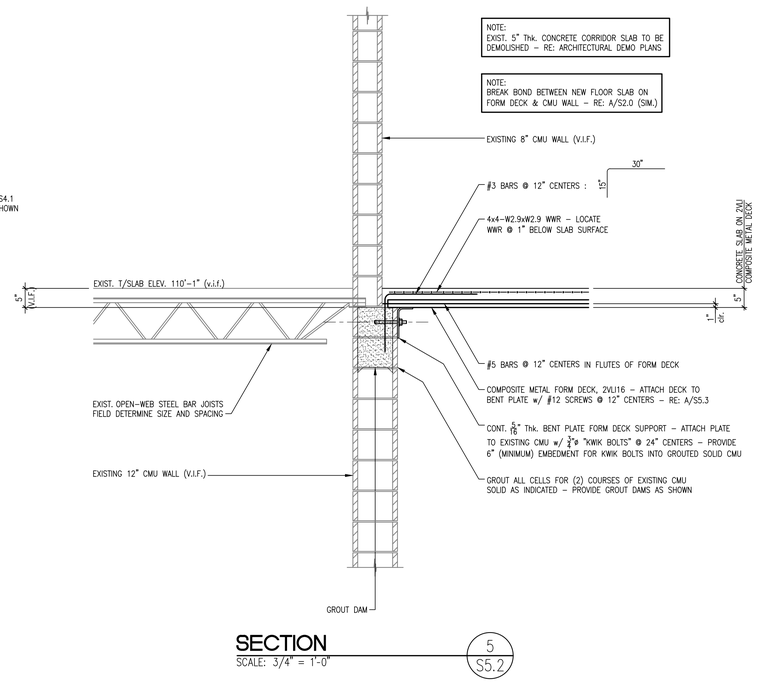
4 S5.2



SECTION
SCALE: 3/4" = 1'-0"
5 S5.2

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

UPPER LEVEL STEEL FRAMING SECTIONS AND DETAILS

JOB NO.	1933
DATE	12/16/2019
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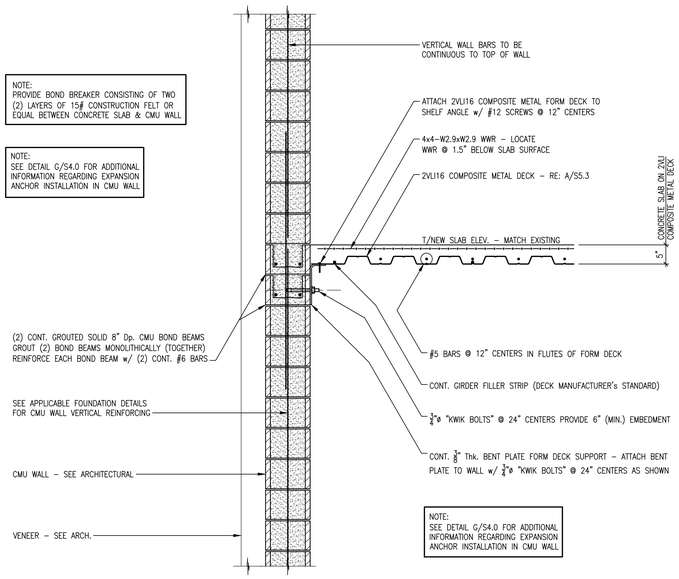
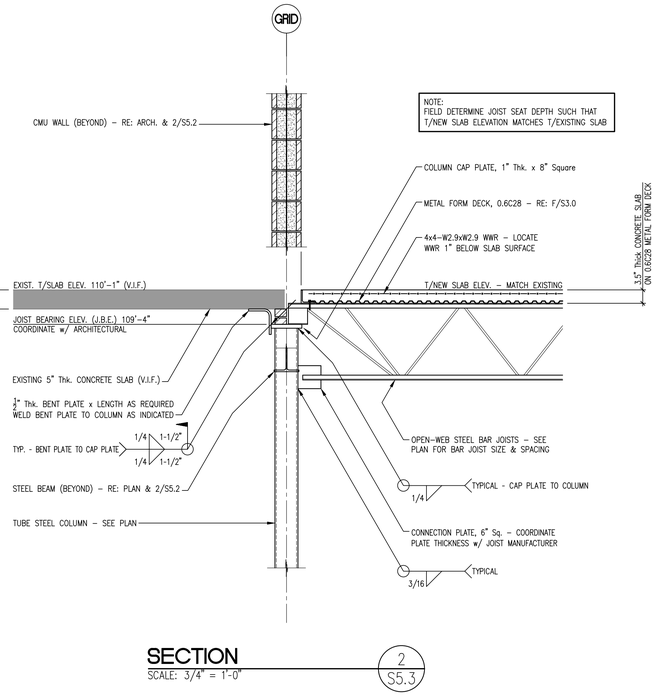
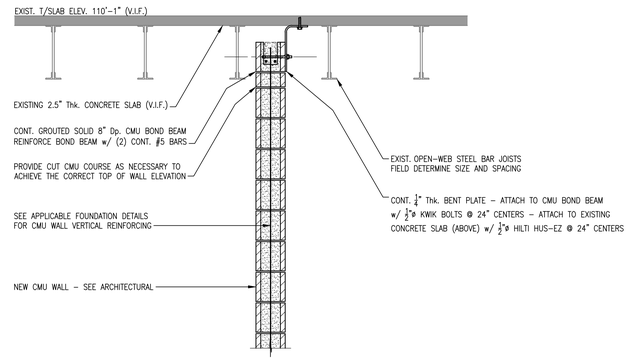
SHEET
S5.2



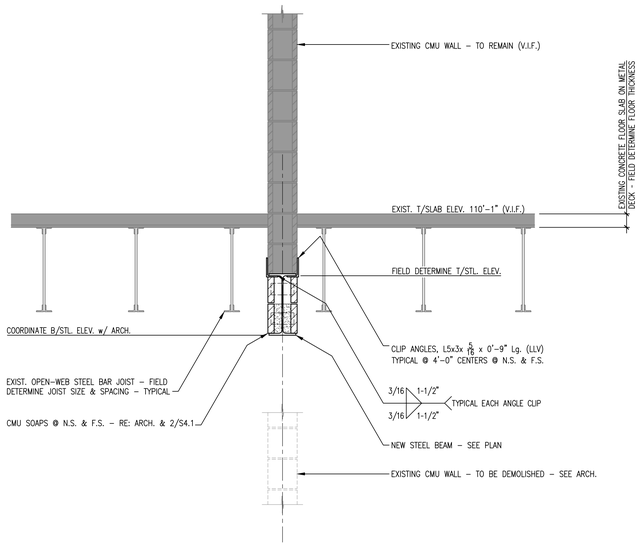
SECTION
SCALE: 3/4" = 1'-0"
1 S5.3



SECTION
SCALE: 3/4" = 1'-0"
2 S5.3

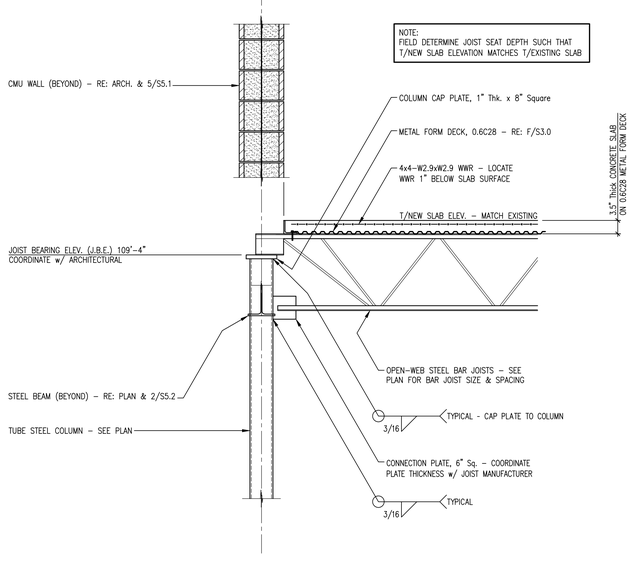


SECTION
SCALE: 3/4" = 1'-0"
3 S5.3

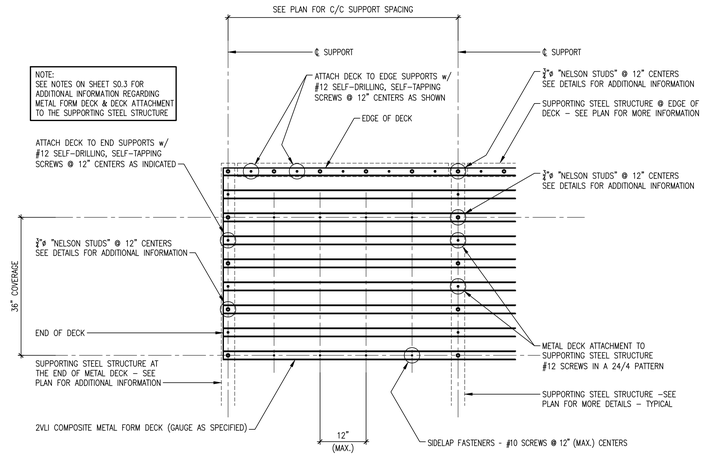


NOTE:
NEW STEEL BEAMS SHOWN IN THESE SECTIONS REPLACE EXISTING BEARING WALLS THAT ARE BEING DEMOLISHED UNDER THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR SHORING EXISTING FLOOR STRUCTURE UNTIL NEW STEEL BEAMS ARE IN PLACE. THE CONTRACTOR SHALL SUBMIT A SHORING PLAN TO THE ARCHITECT FOR REVIEW PRIOR TO START OF CONSTRUCTION THE SHORING PLAN SHALL BE STAMPED & SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE COMMONWEALTH OF KENTUCKY AND EXPERIENCED IN WORK OF THIS TYPE.

SECTION
SCALE: 3/4" = 1'-0"
4 S5.3



SECTION
SCALE: 3/4" = 1'-0"
5 S5.3



COMPOSITE METAL FORM DECK FASTENER PATTERN

TYPICAL DETAIL
SCALE: 3/4" = 1'-0"
A S5.3

SHERMAN CARTER BARNHART
ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

UPPER LEVEL STEEL FRAMING SECTIONS AND DETAILS

JOB NO.	1933
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SHEET
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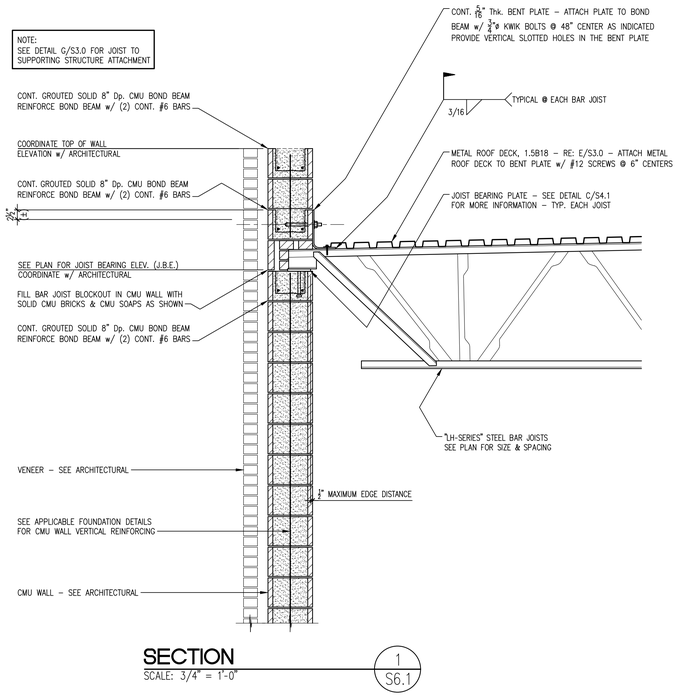
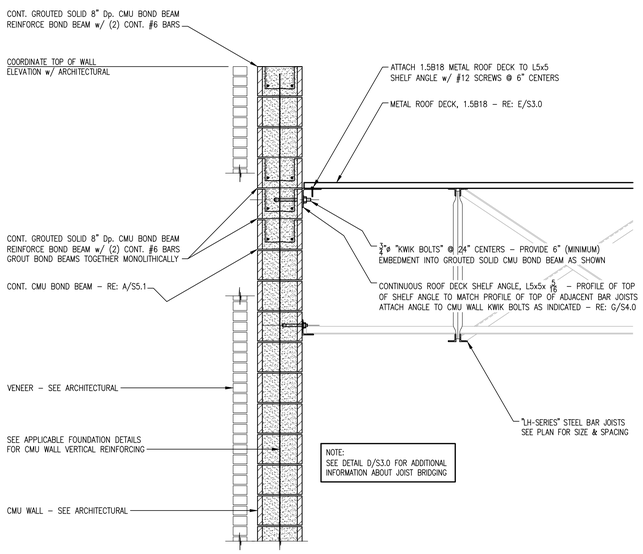
1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



SECTION
SCALE: 3/4" = 1'-0"
1 S6.1



SECTION
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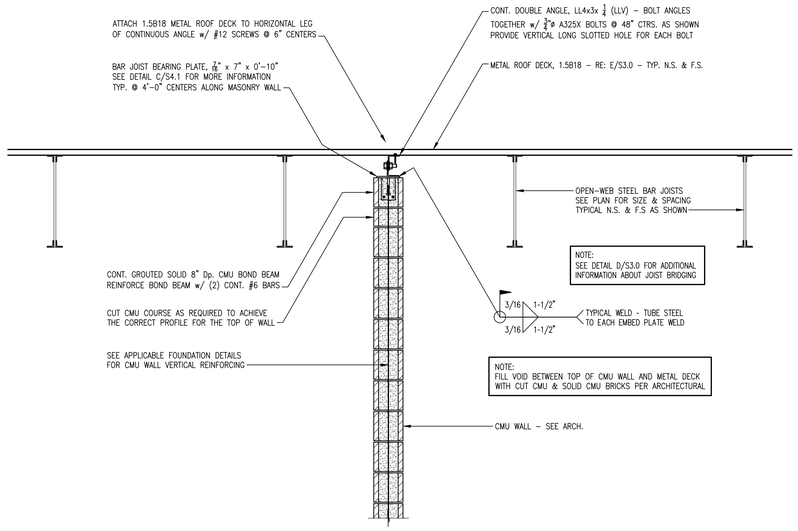
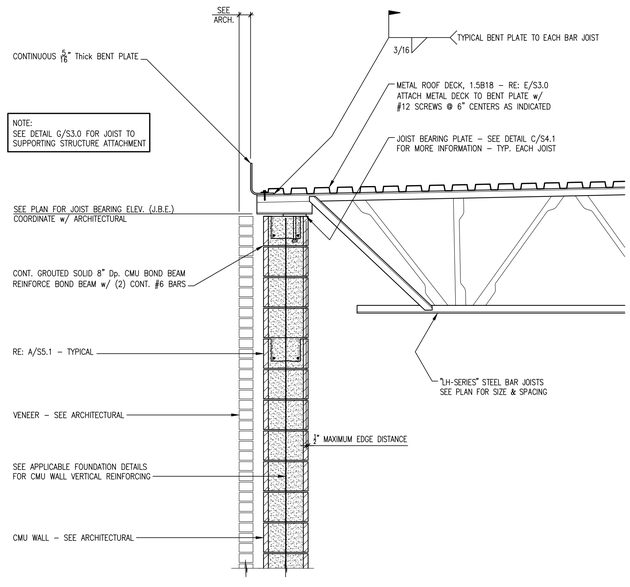
2 S6.1



SECTION
SCALE: 3/4" = 1'-0"
3 S6.1



SECTION
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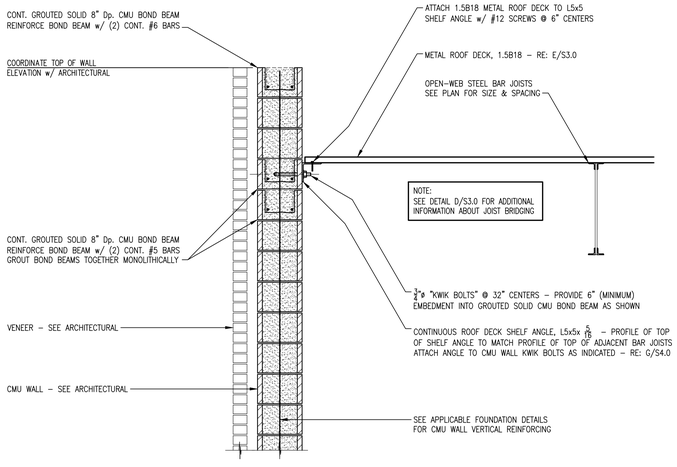
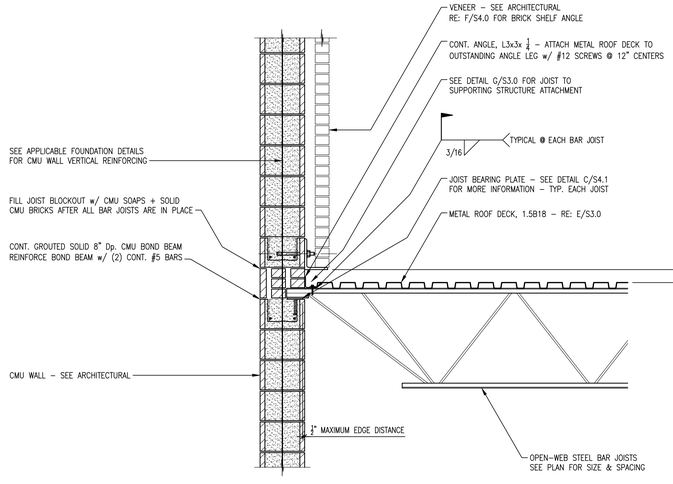
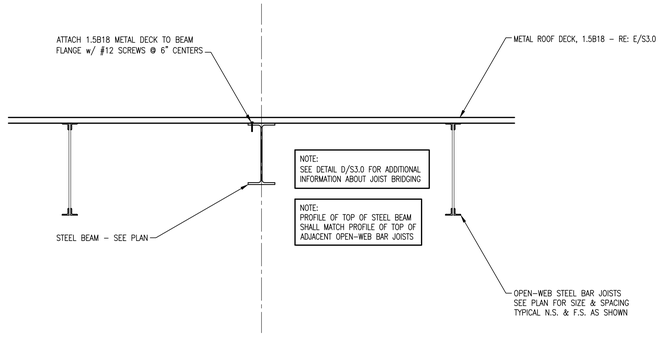
4 S6.1



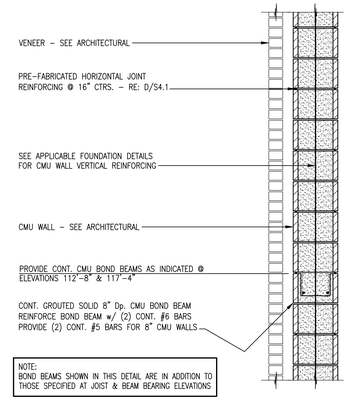
SECTION
SCALE: 3/4" = 1'-0"
5 S6.1



SECTION
SCALE: 3/4" = 1'-0"
6 S6.1



SECTION
SCALE: 3/4" = 1'-0"
7 S6.1



DETAIL
SCALE: 3/4" = 1'-0"
A S6.1

SHERMAN CARTER BARNHART
ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

OPEN-WEB STEEL BAR JOIST ROOF FRAMING SECTIONS and DETAILS

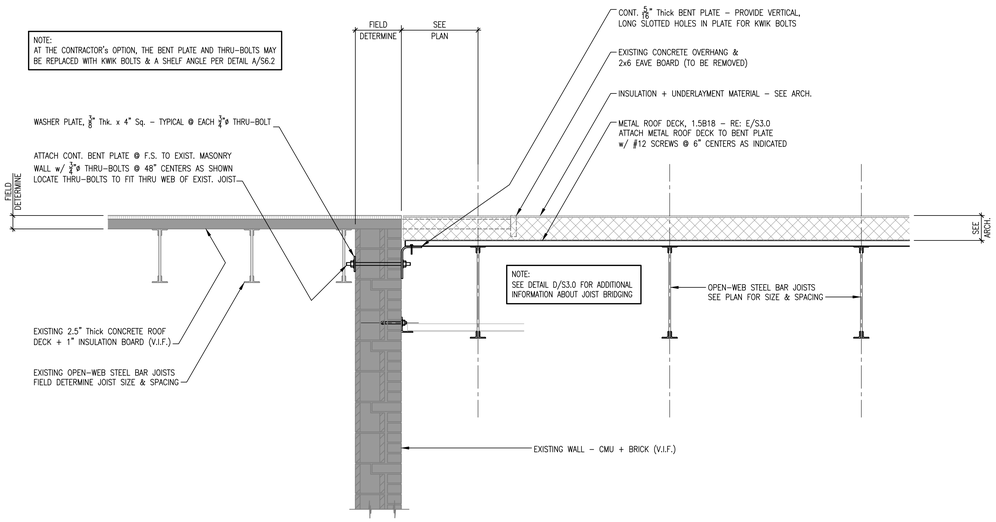
JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

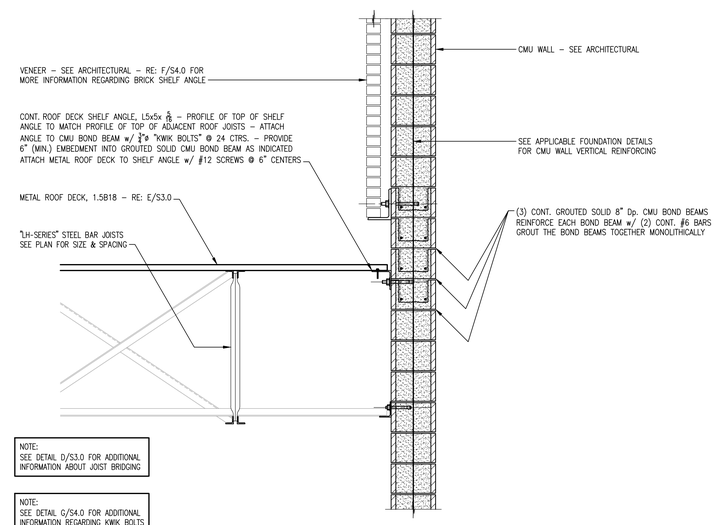
No.	Description	Date

SHEET
S6.1

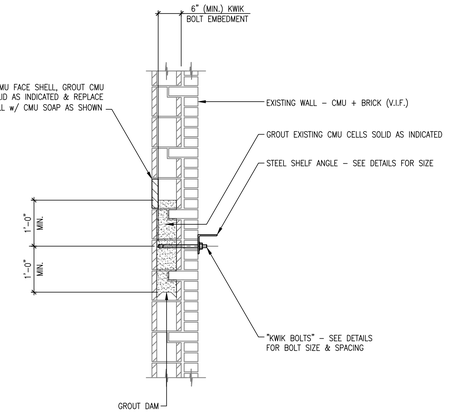
1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



SECTION 1 / S6.2
SCALE: 3/4" = 1'-0"



SECTION 2 / S6.2
SCALE: 3/4" = 1'-0"



TYPICAL DETAIL A / S6.2
SCALE: 3/4" = 1'-0"

SECTION 3 / S6.2
SCALE: 3/4" = 1'-0"

SHORING NOTE:
THIS PROJECT INVOLVES REMOVING EXISTING LOAD BEARING ELEMENTS (CMU BEARING WALLS). SUPPORT THAT THESE ELEMENTS PROVIDE WILL BE REPLACED WITH NEW CMU WALLS AS INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SHORING EXISTING STRUCTURE TO REMAIN PRIOR TO REMOVING ANY EXISTING LOAD BEARING ELEMENT. THE SHORING SHALL REMAIN IN PLACE UNTIL AFTER THE NEW SUPPORT STRUCTURE IS IN PLACE. THE CONTRACTOR SHALL CONVENE A MEETING PRIOR TO START OF CONSTRUCTION TO DISCUSS THE SHORING OF EXISTING STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL SUBMIT A SHORING PLAN (CONTAINING DETAILS AND CALCULATIONS) TO THE ARCHITECT FOR REVIEW TWO (2) WEEKS PRIOR TO THIS MEETING. THE SHORING PLAN SHALL BE STAMPED AND SIGNED BY A LICENSED ENGINEER REGISTERED IN THE COMMONWEALTH OF KENTUCKY & EXPERIENCED IN THIS TYPE OF WORK. THE ENGINEER RESPONSIBLE FOR THE SHORING PLAN SHALL ATTEND "PRE-SHORING" MEETING.

SECTION 4 / S6.2
SCALE: 3/4" = 1'-0"

SECTION 5 / S6.2
SCALE: 3/4" = 1'-0"

SECTION 6 / S6.2
SCALE: 3/4" = 1'-0"

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TAYLORSVILLE, KY

OPEN-WEB STEEL BAR JOIST ROOF FRAMING SECTIONS and DETAILS

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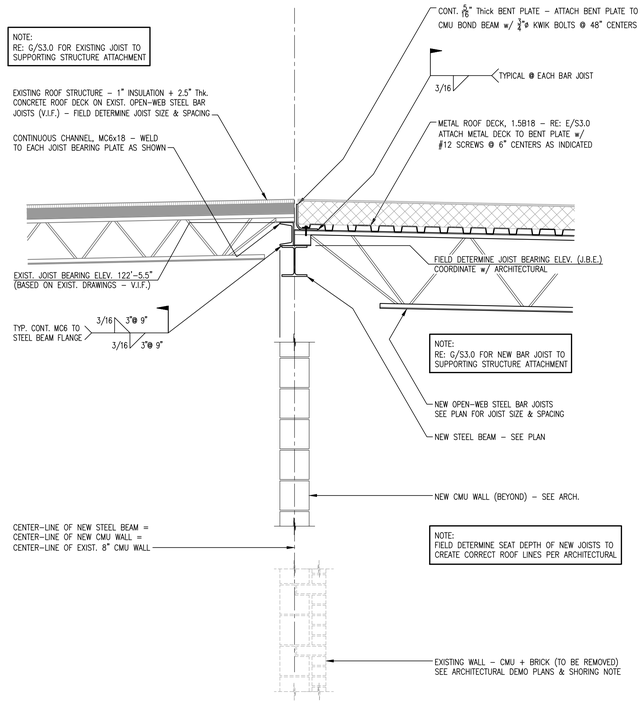
SHEET
S6.2

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



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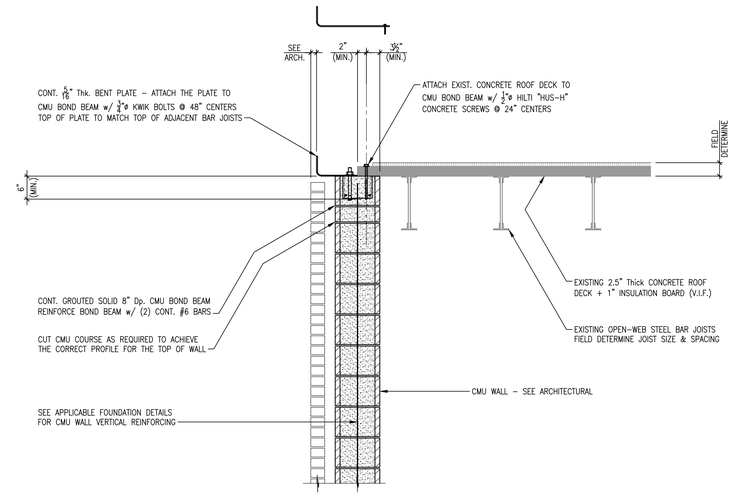
SECTION
SCALE: 3/4" = 1'-0"
1
S6.3



SECTION
SCALE: 3/4" = 1'-0"
2
S6.3

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TAYLORSVILLE, KY

OPEN-WEB STEEL BAR JOIST ROOF FRAMING SECTIONS and DETAILS

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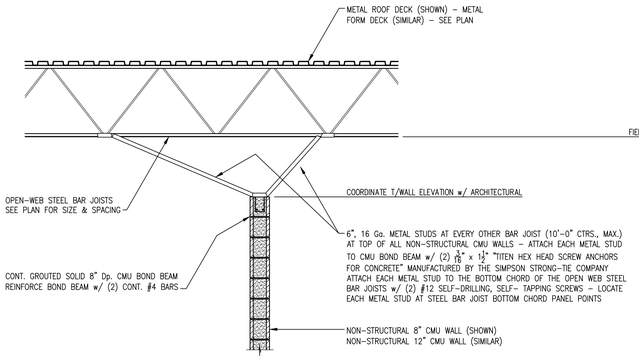
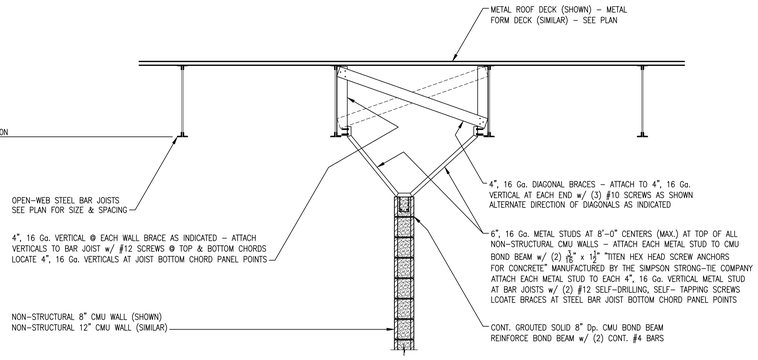
No.	Description	Date

SHEET
S6.3

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY



SEISMIC BRACING FOR NON-STRUCTURAL CMU WALLS

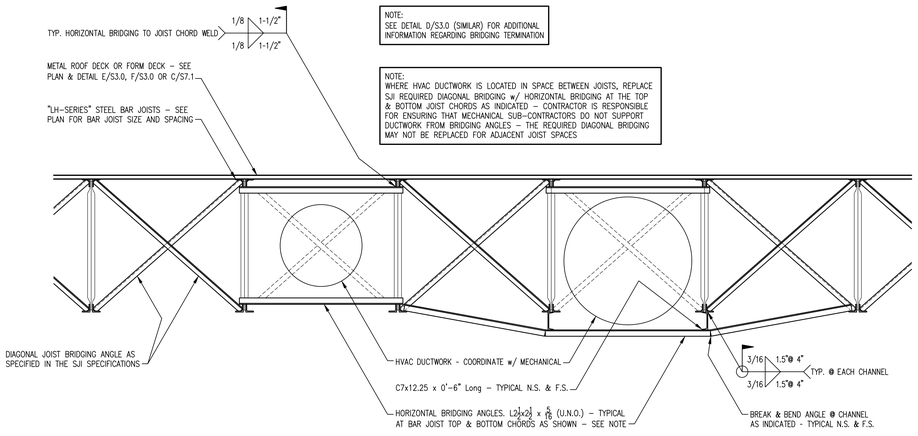


SEISMIC BRACING FOR NON-STRUCTURAL CMU WALLS

TYPICAL DETAIL

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

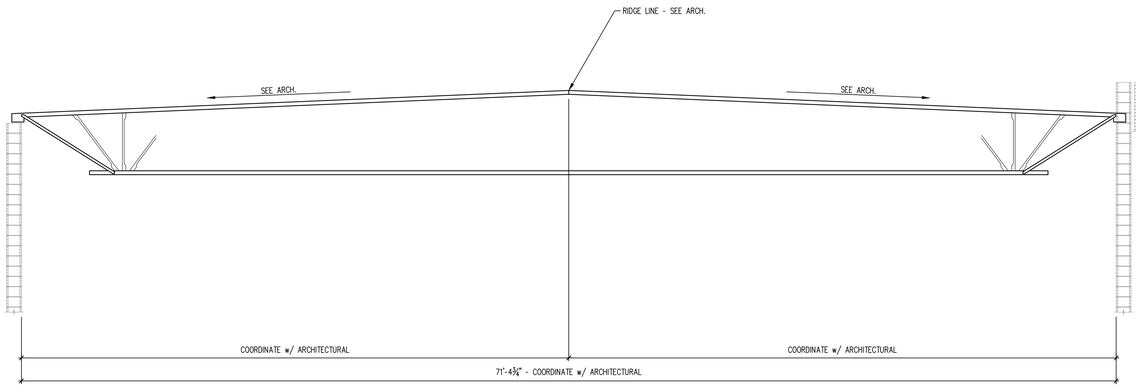
A S7.1



TYPICAL DETAIL

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

B S7.1



NEW CAFETERIA SPECIAL JOIST - RJ01

(JOIST RJ01A IS SIMILAR)

TYPICAL DETAIL

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

C S7.1

1933
SPENCER COUNTY EARLY LEARNING CENTER
PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KY

MISCELLANEOUS STRUCTURAL FRAMING SECTIONS + DETAILS

JOB NO.	1933
DATE	12/16/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

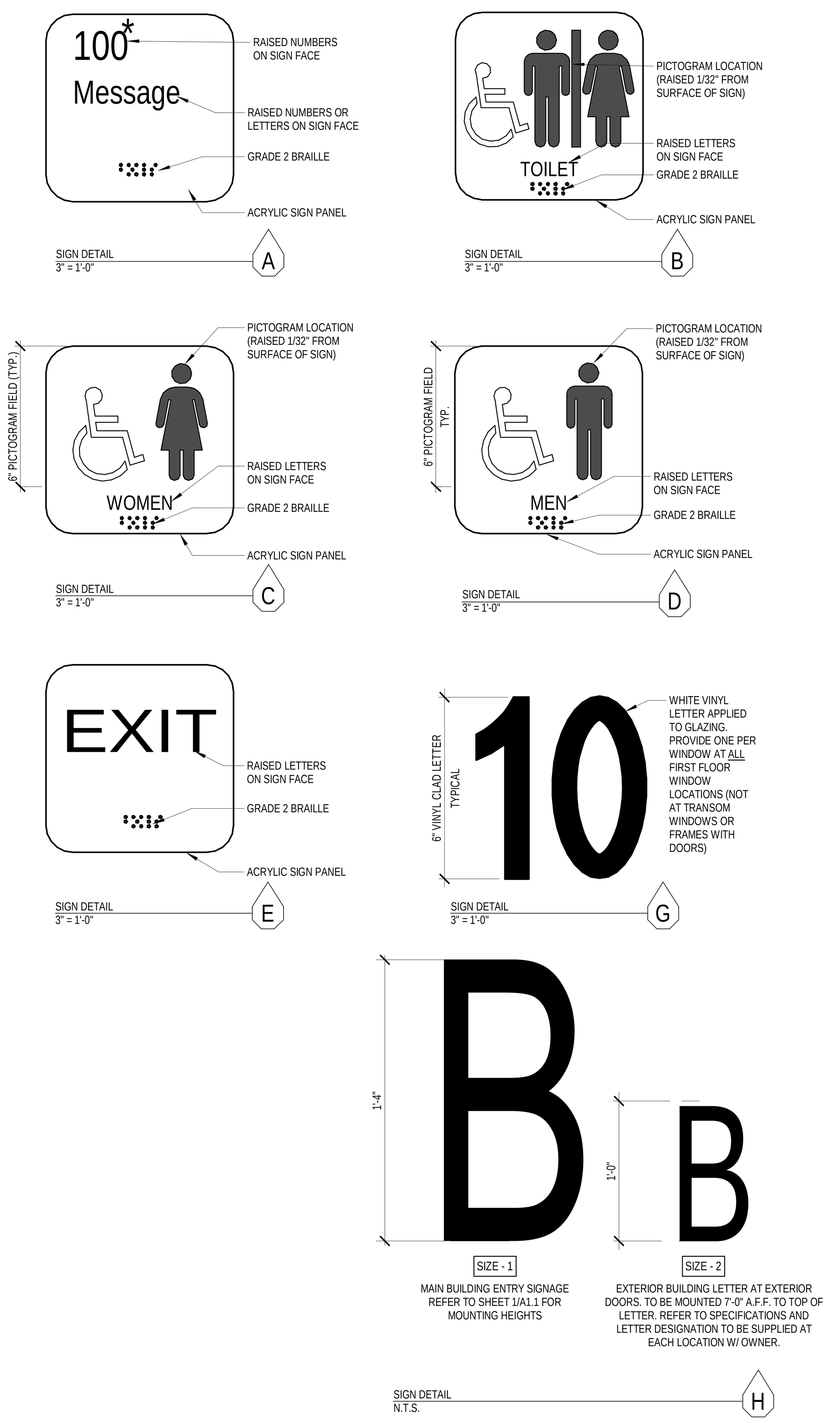
SHEET

S7.1

ABBREVIATIONS

A	
@	AT
AB	ANCHOR BOLT
&	AND
A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
ACT	ACTUAL
ADA	AMERICANS WITH DISABILITIES ACT
ADJ.	ADJUST, ADJUSTABLE
ADH.	ADHESIVE
A.F.F.	ABOVE FINISH FLOOR
AGG.	AGGREGATE
AHU	AIR HANDLING UNIT
ALUM.	ALUMINUM
ANCH.	ANCHOR
AP	ACCESS PANEL
APPROX.	APPROXIMATE
ASSY	ASSEMBLY
AUTO	AUTOMATIC
B	
BD.	BOARD
BTWN.	BETWEEN
BEV.	BEVELED
BIT.	BITUMINOUS
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BOT. OR BTM.	BOTTOM
BUR	BUILT UP ROOFING
BRG. OR BRNG.	BEARING
C	
CAB.	CABINET
CB	CATCH BASIN, CHALKBOARD
C/C	CENTER TO CENTER (SAME MEANING AS OC)
CEM	CEMENT
C.T.	CERAMIC TILE
CF	CUBIC FEET
CFI	CONTRACTOR FURNISHED AND INSTALLED
CHAN	CHANNEL
CI	CAST IRON
CJ	CONTROL JOINT
CLG.	CEILING
CLOS	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC.	CONCRETE
COND	CONDITION, CONDENSER, CONDENSATE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR	CONTRACTOR
CORRUG	CORRUGATED
CR	COLD ROLLED
CSG	CASING
CTSK	COUNTERSINK
CU	CUBIC
CULV	CULVERT
CW	COLD WATER, CLOCKWISE
CY	CUBIC YARD
D	
DBL.	DOUBLE
DEP	DEPRESSED
DET.	DETAIL
DF	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DO	DITTO
DS	DOWNSPOUT
DWG.(S)	DRAWING(S)
E	
EA.	EACH
EJ	EXPANSION JOINT
EL. OR ELEV.	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
ENT	ENTRANCE
EQ.	EQUAL
EQUIV	EQUIVALENT
ESMT	EASEMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER (SEE MECH DWGS)
EXIST. OR EX.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F	
FAB	FABRICATE
FC	FIRE CODE
FD	FLOOR DRAIN (SEE MECH DWGS)
FDN.	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F.F.E.	FINISHED FLOOR ELEVATION
FH	FULL HEIGHT
FIN.	FINISH, FINISHED
FL.	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FRT	FIRE RETARDANT TREATED
FTG.	FOOTING
FURR.	FURRING
F.V.	FIELD VERIFY
G	
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GEN	GENERATOR
GF CMU	GROUND FACE CONC. MAS. UNIT
GI	GALVANIZED IRON
GFI	GROUND FAULT INTERRUPT
GL	GLASS, GLAZING
GLUE LAM	GLUE-LAMINATED
GND	GROUND
GR	GRADE
GST	GLAZED STRUCTURAL TILE
GYP.	GYPSUM
H	
H	HIGH
HARD	HARDENED
HB	HOSE BIB
HC	HOLLOW CORE
HD BD	HARD BOARD
HC	HANDICAPPED
HDR	HEADER
HDWE	HARDWARE
HD WD	HARDWOOD
HEX	HEXAGONAL
HT.	HEIGHT
HOL	HOLLOW
HM OR H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HP	HORSEPOWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER, HARD WHITE
I	
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCL	INCLUDED
INSUL.	INSULATION
INT	INTERIOR
INV	INVERT
J	
JB	JUNCTION BOX
JST.	JOIST
JT	JOINT
K	
KBC	KENTUCKY BUILDING CODE
L	
L	ANGLE, LONG
LAM.	LAMINATE
LF	LIGHT FIXTURE, LINEAR FEET
LH	LEFT HAND
LLV	LONG LEG VERTICAL
LOC	LOCATION
LT	LIGHT
LTWT	LIGHTWEIGHT
M	
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
MB	MARKER BOARD
MC	MISCELLANEOUS CHANNEL
MDO	MEDIUM DENSITY OVERLAY
MECH.	MECHANICAL
MED.	MEDIUM, MEDICINE
MTL.	METAL
MFR.	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM, MINUTE
MISC.	MISCELLANEOUS
ML & P	METAL LATH AND PLASTER
M.O.	MASONRY OPENING
MT.	MOUNT
MTD.	MOUNTED
MTG.	MOUNTING
MULL.	MULLION
N	
NA	NOT APPLICABLE
NET	MEANS EXACT DIMENSION REQUIRED
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OFI	OWNER FURNISHED AND INSTALLED
OF-CI	OWNER FURNISHED, CONTRACTOR INSTALLED
O.H.	OPPOSITE HAND
OH	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
P	
PART	PARTITION
PART. BD.	PARTICLE BOARD
PASS	PASSAGE
PC	PRECAST
P/C	POURED CONCRETE
PERF	PERFORATED
PERIM	PERIMETER
PERP.	PERPENDICULAR
PF CMU	PREFACED CONC. MAS. UNIT
PH	PHASE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD.	PLYWOOD
POL	POLISHED
POLY CARB	POLYCARBONATE SHEET
PREFAB.	PREFABRICATED
PROJ.	PROJECT, PROJECTED
PR.	PAIR
PSMB	PENCIL SHARPENER BLOCK
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWG	POLISHED WIRE GLASS
+/-	PLUS OR MINUS
Q	
Q.T.	QUARRY TILE
R	
R.	RISER, RADIUS
R. OR RAD.	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECIRC	RECIRCULATE
REF	REFERENCE, REFER
REF.	REFRIGERATOR
REINF.	REINFORCE, REINFORCED, REINFORCING
REQ'D.	REQUIRED
RET.	RETAINING, RETURN
RESIL	RESILIENT
RH	RIGHT HAND, ROUND HEAD
R.O.	ROUGH OPENING
ROW OR R/W	RIGHT OF WAY
RRT	RAISED RADIAL TILE
S	
SC	SOLID CORE
SCHD.	SCHEDULE
SECT	SECTION
SEP	SEPARATE, SEPARATION
SF	SQUARE FEET, SAND FILL
SHEATH	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
S.M.	SHEET METAL
SPA	SPACE(S)
SPEC(S).	SPECIFICATIONS
SPM	SINGLE-PLY MEMBRANE
SQ.	SQUARE
S.S.	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYMM	SYMMETRICAL
T	
T	TREAD, THICK
TB	TACKBOARD
TC	TOP OF CURB
TCE	TOP OF CURB ELEVATION
TDS	TURNED DOWN SLAB
TEL	TELEPHONE
TFE	TOP OF FOOTING ELEVATION
T & G	TONGUE AND GROOVE
THK	THICK, THICKNESS
THRESH	THRESHOLD
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOIL	TOILET
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TS	TACK STRIP, STRUCTURAL STEEL TUBING
TOW	TOP OF WALL
TYP.	TYPICAL
U	
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNFIN.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
V	
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W	
W	WIDE
W.R.	WATER RESISTANT
WWF	WELDED WIRE FABRIC
X	
X	BY
Y	
YD	YARD

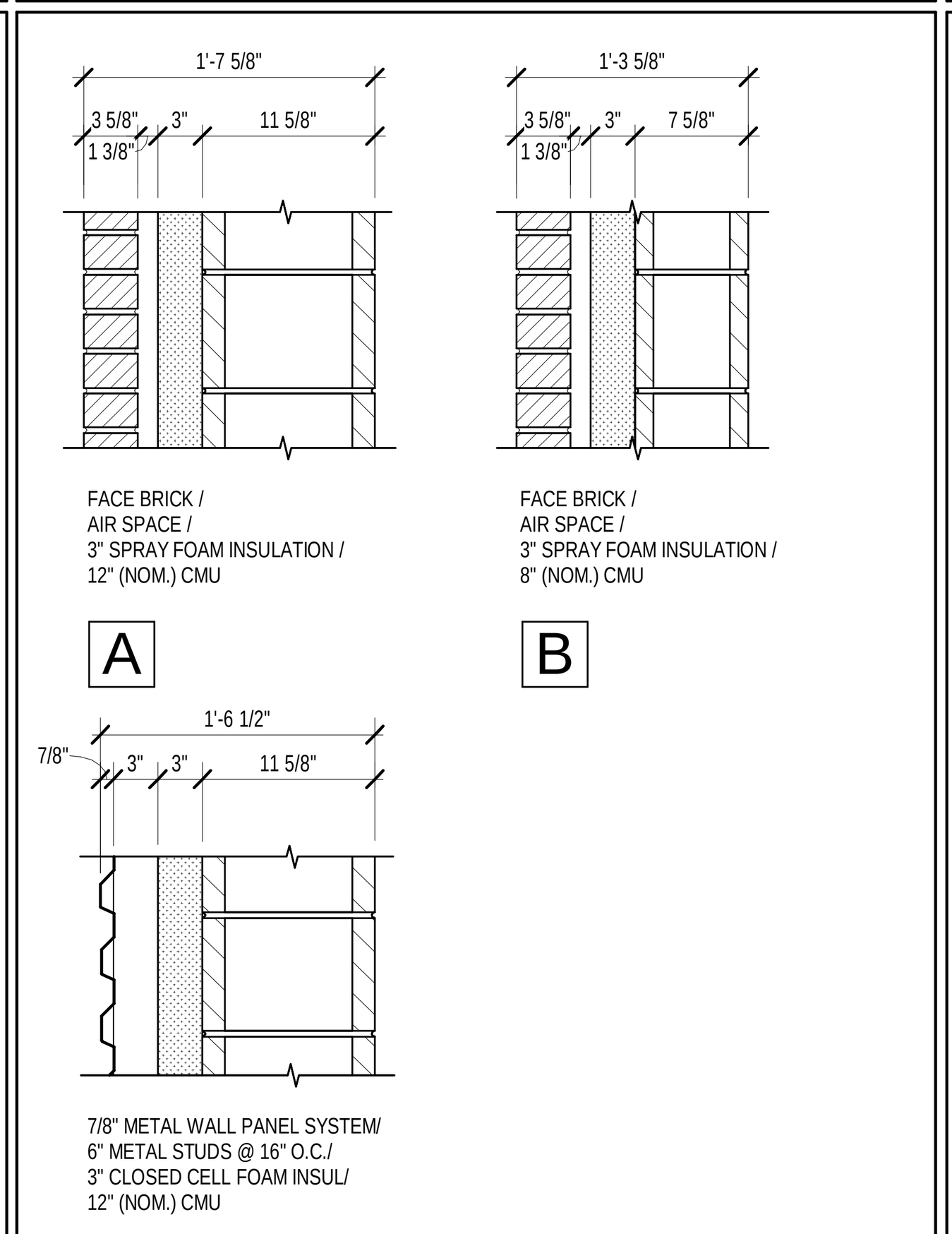
SIGNAGE TYPES



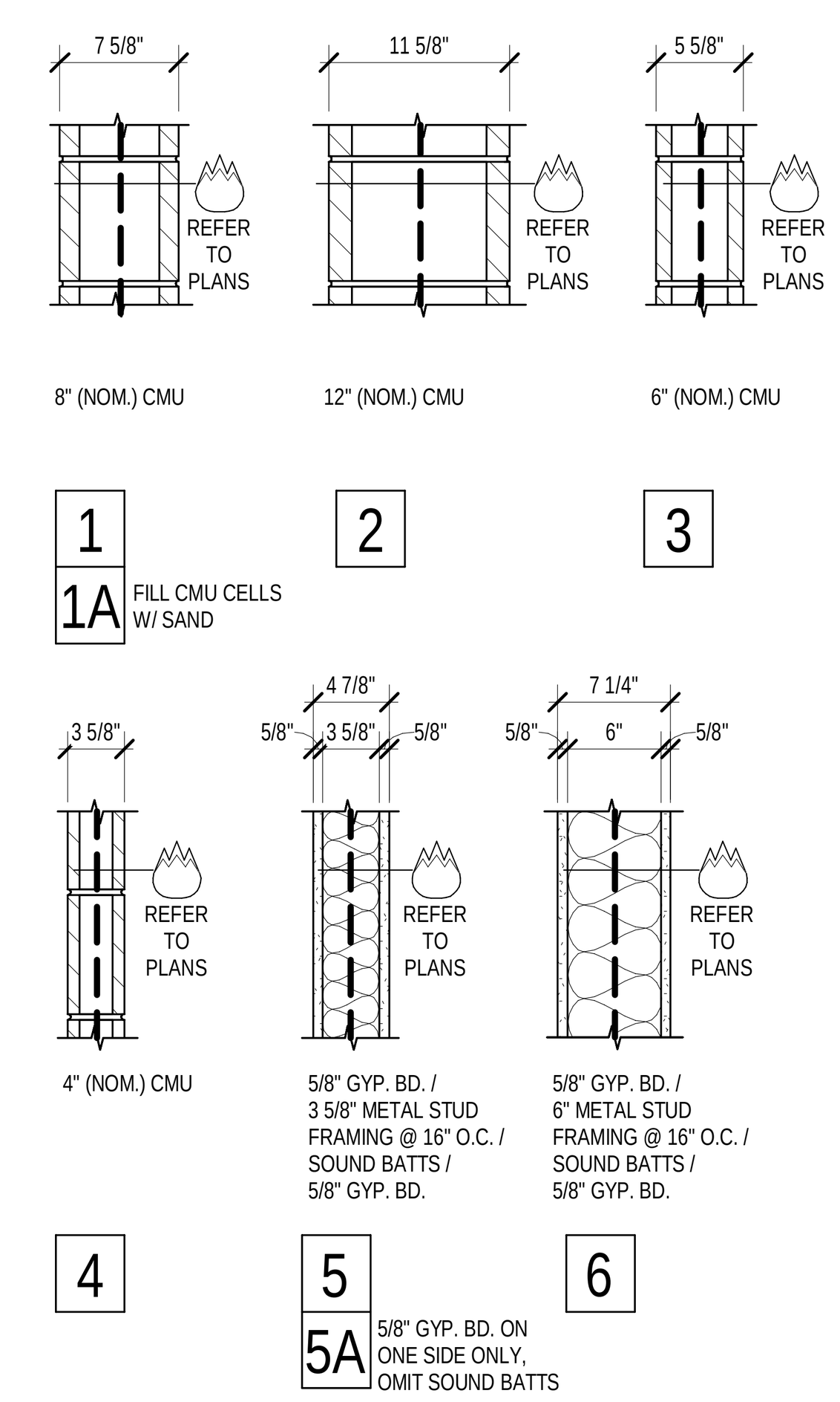
GENERAL SIGNAGE NOTES

1. CHARACTERS SHOWN ON THIS SHEET ARE COMPUTER GENERATED. SPACING OF CHARACTERS IS NOT ACCURATE. CORRECT "VISUAL" SPACING IS THE RESPONSIBILITY OF THE MANUFACTURER.
2. PICTOGRAMS ARE SHOWN HEREIN FOR INFORMATION AND INTENT ONLY. MECHANICAL, CAMERA - READY ARTWORK SHALL BE SUPPLLIED BY THE SIGNAGE CONTRACTOR.
3. COLORS OF PANEL SIGNS TO BE SELECTED BY ARCHITECT.
4. UNLESS OTHERWISE NOTED, ALL SIGNS TO BE MOUNTED BESIDE DOORS AT 5'-0" A.F.F. TO CENTER OF SIGN AND 2" FROM EDGE OF DOOR FRAME ON THE STRIKE SIDE. THE ARCHITECT SHALL BE CONSULTED BEFORE PLACEMENT OF SIGNAGE FOR LEFTHAND AND RIGHTHAND ORIENTATION OF SIGNS.
5. UNLESS OTHERWISE NOTED, ALL SIGNS TO BE MOUNTED UNDER WINDOWS OR SIDELITES SHALL BE MOUNTED 2" FROM BOTTOM OF SILL TO TOP EDGE OF SIGN AND CENTERED ON THE WINDOW.
6. * ON SIGN DETAILS = THREE CHARACTER NUMBER TO BE SUPPLIED BY ARCHITECT.
7. ALL SIGNAGE SHALL MEET REQUIREMENTS OF ADAAG OF THE AMERICANS WITH DISABILITIES ACT (ADA).
8. MESSAGE (COPY) TO BE DETERMINED BY ARCHITECT / OWNER.
9. ALL SIGNS TO BE 8"x8", U.N.O.
10. ROOM NAMES AND NUMBERS SHOWN HERE ARE FOR CONSTRUCTION PURPOSES ONLY. FINAL ROOM NAMING AND NUMBERING FOR SIGNAGE SHALL BE PROVIDED BY OWNER.
11. ALL SIGNAGE KEY NOTES WITH AN ASTERISK (*) ARE FOR CLARIFICATION OF THE MOUNTING LOCATION OF A SIGN SPECIFIED IN THE DOOR SCHEDULE.
12. ALL SIGNAGE SHOWN MOUNTED ON H.M. OR ALUM. STOREFRONT FRAMES TO BE FULLY ADHERED TO THE GLASS 5'-0" A.F.F. WITH FINISHED BACK PANEL.

WALL / PARTITION TYPES



EXTERIOR WALL TYPES



INTERIOR WALL TYPES

GENERAL PARTITION TYPE NOTES

P1 PARTITION TYPE. ALL WALLS TO BE EXTENDED FULL HEIGHT TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE, UNLESS NOTED OTHERWISE (SEE BELOW). REFER TO DETAILS ON A6.1. REMOVE EXISTING PLASTER ALONG BOTTOM OF EXIST. STRUCT. AS REQ'D.

EX SCHEDULED MASONRY WALL TO EXTEND A MIN. OF 4" OR NEXT BLOCK COURSE FROM HIGHEST ADJACENT CEILING (UNLESS NOTED OTHERWISE) AND EXTEND PARTITION TO UNDERSIDE OF DECK ABOVE WITH 3 5/8" METAL STUDS AT 16" O.C./SOUND BATT INSUL./ 5/8" GYP. BD. BOTH SIDES. REFER TO DETAIL 18/A6.1. REMOVE EXISTING PLASTER ALONG BOTTOM OF EXIST. STRUCT. AS REQ'D.

0'-0" INDICATES HEIGHT A.F.F. OF SCHEDULED WALL

P2 ALL EXTERIOR WALLS ARE WALL TYPE [A] AND ALL INTERIOR PARTITIONS ARE WALL TYPE [1] UNLESS NOTED OTHERWISE.

P3 INTERIOR WALL TYPES ARE IDENTIFIED BY NUMBER AND EXTERIOR WALL ASSEMBLY TYPES BY LETTER.

P4 PROVIDE SPECIFIED CLOSURES AND INSTALL BETWEEN DECK FLUTES AND MASONRY OR DRYWALL PARTITIONS TO ACHIEVE FULL AND COMPLETE CLOSURE OF ALL VOIDS AT TOP OF WALLS INDICATED TO EXTEND FULL HEIGHT.

P5 PARTITION TYPES SHALL MAINTAIN THEIR RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC. AND PLUMBING PENETRATIONS SHALL BE SEALED / SAFED / DAMPERED AS REQUIRED TO COMPLY WITH APPLICABLE CODES.

P6 REFER TO SPECIFIED FIRESTOPPING MEASURES REQUIRED AT ALL RATED WALL ASSEMBLIES AND AS FOLLOWS:

P7 PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS.
- (a) FULL-HEIGHT NON-RATED WALLS: FILL VOIDS WITH BATT INSULATION.
- (b) RATED FULL HEIGHT WALLS: FILL VOIDS WITH FIRE SAFING AND INSTALL BACKER ROD AND FIRE RATED SEALANT ON EACH SIDE OF WALL.
- (c) FULL HEIGHT UNRATED INCIDENTAL USE SEPARATION PARTITIONS: FILL VOIDS WITH INSULATION AND INSTALL BACKER ROD AND SEALANT ON EACH SIDE OF WALL.

P8 ALL DIMENSIONS ARE TO FACE OF STUDS, MASONRY, OR TO CENTERLINE OF STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.

P9 REFER TO DETAILS ON SHEET A/6.1 FOR TYPICAL CMU/GYP. BD./CMU WALL/PARTITION INTERSECTION REQUIREMENTS.

P10 REFER TO WALL SECTIONS AND MISCELLANEOUS DETAILS FOR WALL TRANSITIONS ABOVE ADJACENT ROOF LEVELS - I.E.: BRICK LEDGES, CMU WIDTH AND WALL TYPE TRANSITIONS.

P11 BULLNOSE CMU SHALL BE USED AT ALL OUTSIDE CORNERS. REFER TO DETAIL 22/A6.1 FOR CONDITIONS AT BASE AND DOOR JAMB.

P12 ALL RUNNING BOND MASONRY SHALL BE INSTALLED WITH GALVANIZED HORIZONTAL MASONRY REINFORCEMENT AT EVERY OTHER VERTICAL MASONRY COURSE U.N.O..

P13 REFER TO STRUCT. DWGS. FOR REQUIREMENTS AND LOCATIONS OF WALLS TO RECEIVE VERTICAL REINFORCING @ PARAPET WALLS

P14 REFER TO STRUCTURAL AND ARCHITECTURAL DWGS. FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY.

P15 PROVIDE SPECIFIED BRICK CAVITY VENTS AT 48" O.C., AT TOP OF WALL CAVITIES AND ABOVE MORTAR NET AT BOTTOM OF WALL CAVITIES TO ALLOW FOR PROPER VENTING OF WALLS.

P16 CONCRETE MASONRY UNITS INSTALLED AT EXTERIOR WALLS SHALL RECEIVE APPLICATION OF SPECIFIED DAMP PROOFING ON CAVITY FACE, EXCEPT AT WALL RECEIVING SPRAY FOAM CAVITY INSULATION.

P17 CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHERTIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR WHERE FLASHING IS INDICATED OR REQUIRED.
- (a) KEEP ALL CAVITIES FREE OF MORTAR.
- (b) PROVIDE WEEPS ON TOP OF THRU-WALL FLASHING AT 16" O.C. HORIZONTAL AND DO NOT ALLOW THEM TO BECOME CLOSED-OFF.
- (c) PROVIDE SPECIFIED APPLICATION OF DAMP PROOFING ON CAVITY FACE OF CONCRETE MASONRY UNIT.
- (d) TOOL ALL MORTAR JOINTS AT THE PROPER TIME TO CONSOLIDATE THE SURFACE AND REDUCE WATER INFILTRATION.
- (e) REFER TO STRUCT FOR THE USE OF LIGHT-WEIGHT OR OTHER THAN THE SPECIFIED CONCRETE UNIT MASONRY BACK-UP AT SINGLE-WYTHE OR MONOLITHIC WALLS WILL NOT BE PERMITTED AT EXTERIOR WALLS.
- (f) INSTALL MORTAR NETTING AT ALL THROUGH WALL FLASHING LOCATIONS.
- (g) PRIOR TO APPLICATION OF DAMP-PROOFING, CONTRACTOR TO SEAL ALL CONTROL JOINTS, EXPANSION JOINTS & PENETRATIONS IN CMU.
- (h) ALL THRU-WALL FLASHING TO EXTEND 1/2" MIN. BEYOND FACE BRICK. FLASHING TO BE TRIMMED FLUSH WITH FACE BRICK PER DIRECTION OF ARCHITECT.

P18 INTERIOR MASONRY AND/OR GYPSUM BOARD EXPOSED TO VIEW SHALL BE PAINTED, UNLESS NOTED OTHERWISE. REFER TO ROOM FINISH GROUPS.

P19 REFER TO ROOM FINISH GROUPS FOR BASE CONDITION.

P20 AT EXTERIOR MASONRY WALLS, CMU SHALL BE EXTENDED TIGHT TO FLOOR AND/OR ROOF DECKS, INCLUDING AROUND ALL PENETRATIONS SUCH AS BEAMS, JOIST ENDS, AND ETC. FILLING VOIDS IN EXT. CMU BACK-UP WITH INSULATION IN LIEU OF A SOLID MASONRY ENCLOSURE SHALL NOT BE PERMITTED.

P21 REFER TO PARTITION DETAILS ON SHEET A6.1 FOR SPECIFIC CONNECTION AND ATTACHMENT/ BRACING OF NON-LOAD BEARING INTERIOR PARTITION WALL TO STRUCTURE/ DECK ABOVE.

P22 REFER TO DETAIL A6.1 FOR TYPICAL BASE FLASHING DETAIL.

P23 WHERE GYP. ASSEMBLIES SPECIFIED AT WET WALL LOCATIONS, WATER RESISTANT GYPSUM BOARD TO BE INSTALLED.

P24 METAL STUD FRAMED PARTITIONS, SOFFITS, ETC. TO BE LATERALLY BRACED TO UNDERSIDE OF ROOF FRAMING OR ADJACENT MASONRY WALLS AT 8'-0" O.C. MAX. U.N.O.

P25 NON-REINFORCED, SINGLE-WYTHE, MASONRY PARTITION WALLS THAT ARE SCHEDULED TO STOP 4" ABOVE ADJACENT CLG. AND EXCEED 20'-0" UNBRACED LENGTH (I.E. INTERSECTING WALLS OR CORNERS) SHALL BE LATERALLY BRACED AT 8'-0" O.C. W/ 16 GA. 3 5/8" METAL STUD FRAMING TO UNDERSIDE OF ROOF STRUCTURE ABOVE.

P26 REFER TO DETAILS ON SHEET A6.1 FOR TYPICAL INTERIOR LOAD BEARING FULL HT. CMU PARTITION DTLS.

P27 REFER TO DETAIL 2/A7.1 FOR TYPICAL SOFFIT SUPPORT FROM STRUCTURE ABOVE.

P28 GYP. BD. WALL TYPES AT ADMINISTRATION TO BE STC-50.

P29 ALL INTERIOR MASONRY WALLS SHALL RECEIVE CONTROL JOINTS AT 20'-0" MAX. U.N.O.

P30 SAWCUT ALL NON-LOAD-BEARING MASONRY SO AS TO MAINTAIN A 3/8" SOFT JOINT BETWEEN TOP OF MASONRY AND BOTTOM OF STRUCTURE.

P31 EXTERIOR WALLS ARE TO BE SEALED "AIRTIGHT".

P32 REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINT SPACING REQUIREMENTS. REFER TO DRAWINGS FOR SPECIFIC LOCATION REQUIREMENTS.

P33 PROVIDE MECHANICAL RESTRAINT FOR INSULATION, AS REQUIRED TO MAINTAIN COMPLETE TIGHT FIT, WHERE INSULATION NOT RESTRAINED BY OTHER CONSTRUCTION.

P34 PROVIDE CLOSED CELL NEOPRENE SILL PLATE GASKET BELOW STUD TRACKS AT ALL INTERIOR AND EXTERIOR STUD WALLS TO SEPARATE STUDS FROM CONCRETE.

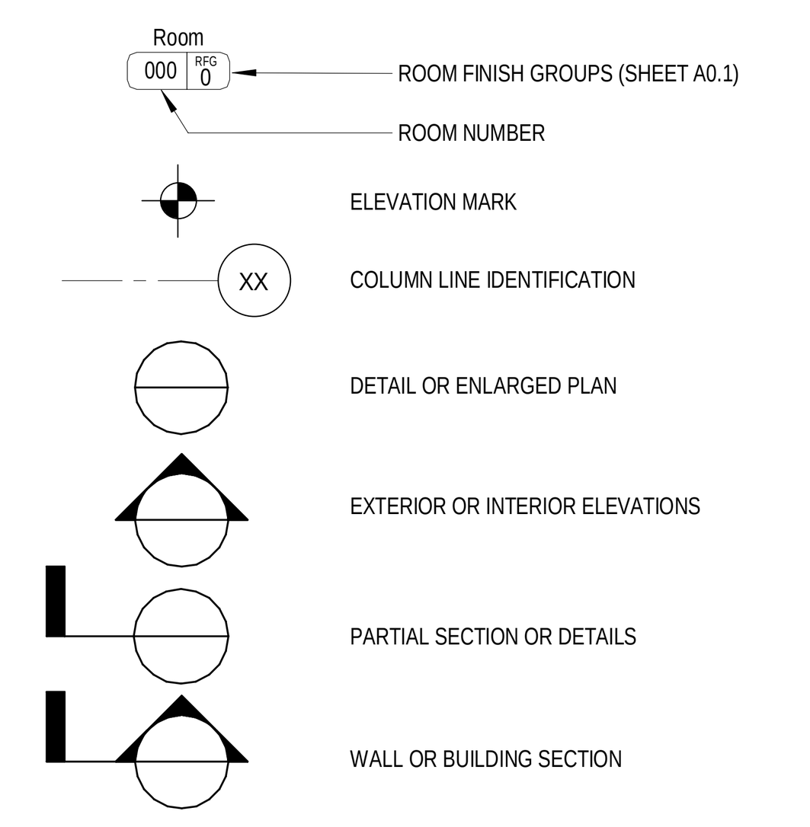
ROOM FINISH GROUPS

GENERAL NOTES:

1. WHERE MORE THAN ONE FINISH IS LISTED REFER TO PLANS, SECTIONS, INTERIOR ELEVATIONS AND DETAILS.
2. REFER TO TYPICAL FLOOR TRANSITION / THRESHOLD CONDITIONS, SHEET A8.1.
3. REFER TO REFLECTED CEILING PLANS, SHEETS A7.1 AND A7.2 FOR CEILING INFORMATION.
4. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AT CEILINGS.
5. * ASTERISK INDICATES PAINTING SHALL BE BY CONTRACTOR
6. CONTRACTOR SHALL PREPARE ALL NEW SURFACES TO RECEIVE PAINT (I.E. DRYWALL FINISHING, BLOCK FILLER, ETC.)

RFG		
XXX 1	FLOOR	VINYL COMPOSITION TILE
	BASE	4" RESILIENT BASE
	WALLS	PAINT BY OWNER U.N.O.
XXX 2	FLOOR	EXISTING VINYL COMPOSITION TILE
	BASE	4" RESILIENT BASE
	WALLS	PAINT BY OWNER U.N.O.
XXX 3	FLOOR	VINYL COMPOSITION TILE STAIRS: RUBBER TREADS AND RISERS LANDING: VINYL COMPOSITION TILE LOBBY 123: WOOD FLOOR, REFER TO A9.1
	BASE	4" RESILIENT BASE
	WALLS	PAINT BY OWNER U.N.O.
XXX 4	FLOOR	EPOXY RESIN
	BASE	4" EPOXY RESIN (REFER TO DETAIL 21/A6.1)
	WALLS	PAINT BY OWNER U.N.O.
XXX 5	FLOOR	CONCRETE W/ SEALER
	BASE	NO BASE
	WALLS	PAINT BY OWNER U.N.O.
XXX 6	FLOOR	EXISTING TO REMAIN
	BASE	EXISTING TO REMAIN
	WALLS	EXISTING TO REMAIN
XXX 5	FLOOR	EPOXY RESIN
	BASE	4" EPOXY RESIN (REFER TO DETAIL 21/A6.1)
	WALLS	CERAMIC WALL TILE UP TO 3'-8" A.F.F. PAINT BY OWNER U.N.O.

SYMBOL LEGEND



GENERAL NOTES

GN-1 (N.I.C.) MEANS NOT IN CONTRACT. TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER.

GN-2 DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

GN-3 MASONRY DIMENSIONS ARE NOMINAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR SIDE OF FACE BRICK.

GN-4 REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" SCALE PLANS.

GN-5 CONTINUOUS SEALANT (AND BACKER ROD AS REQ'D FOR PROPER JOINT INSTALLATION) SHALL BE INSTALLED BETWEEN ALL INTERFACES OF MASONRY, HOLLOW METAL AND ALUMINUM FRAMING, FRP, GYPSUM BOARD, METAL SOFFITS/PANELS, AND OTHER MATERIAL CHANGES WHETHER SPECIFICALLY INDICATED AT ALL LOCATIONS OR NOT. BACKER ROD SHALL BE USED BEHIND ALL SEALANT CONDITIONS (TYPICAL). WHERE SPECIFIC CONDITIONS DO NOT ALLOW BACKER ROD TO BE USED, A BOND BREAKER SHALL BE USED AT THE BACK OF THE JOINT.

GN-6 AT ALL BASE LOCATIONS, CONTRACTOR TO INSTALL NON-BULLNOSE CMU AT FIRST COURSE OF MASONRY - REFER TO DETAIL 22/A6.1.

GN-7 ALL CONCEALED WOOD FRAMING AND PLYWOOD SHALL BE FIRE-RETARDANT TREATED (FRT) EXCEPT THAT NON-F.R.T. BLOCKING, NAILERS AND FURRING MAY BE USED WHERE INSTALLED IN ACCORD WITH KBC SECTION 803.3 (INCLUDING DIMENSIONAL WOOD BLOCKING, FIRE BLOCKING, REQUIREMENTS, ETC.). WOOD BLOCKING INSTALLED IN ACCORD WITH KBC SECTION 603, PARAGRAPH 12 FOR HANDRAILS, MILLWORK, CABINETS, WINDOWS AND DOORS IS NOT REQUIRED TO BE F.R.T. AT COPINGS AND ROOFING TERMINATIONS ALL BLOCKING SHALL BE PRESSURE TREATED (PT). WHERE WOOD BLOCKING IS IN CONTACT WITH CMU, CALCIUM SILICATE MASONRY OR CONCRETE, SUCH BLOCKING SHALL BE PRESSURE TREATED. SEE GENERAL NOTES GN-8, GN-9 AND GN-10 FOR SPECIAL REQUIREMENTS AT P.T. WOOD.

GN-8 ALL WOOD BLOCKING AND NAILERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE PRESERVATIVE TREATED (P.T.)

GN-9 ALL P.T. WOOD SHALL BE SEPARATED FROM CONTACT WITH ANY METAL COMPONENTS WITH SELF ADHERING ELASTOMERIC MEMBRANE FLASHING OR OTHER SIMILAR PERMANENT MEANS.

GN-10 ALL ANCHORS AND FASTENERS IN CONTACT WITH P.T. WOOD SHALL BE STAINLESS STEEL OR G90 HOT DIPPED GALVANIZED, MINIMUM.

GN-11 CONTRACTOR SHALL PROVIDE ALL CONCEALED BLOCKING REQUIRED FOR ATTACHMENT AND SUPPORT OF EQUIPMENT, FIXTURES, WINDOWS, ETC.

GN-12 GYPSUM CEILING BOARD SHALL BE USED AT ALL HORIZONTAL APPLICATIONS OF GYPSUM BOARD.

GN-13 REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZE, LOCATION, CONNECTIONS, REINFORCEMENT AND OTHER REQUIREMENTS PERTAINING TO STRUCTURAL COMPONENTS INDICATED.

GN-14 REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. WHERE STEEL PLATES ARE A PART OF LINTELS, FACE OF LINTEL SHALL BE INSET 1/2" FROM FACE OF CMU AND / OR MASONRY VENEER, INSTALL SEALANT IN LIEU OF MORTAR TO CONCEAL LINTEL EDGE. ALL RELIEF ANGLES AND EXPOSED COMPONENTS OF STEEL LINTELS, BRACKETS, AND SUPPORTS IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED. ALL EXPOSED PORTIONS OF LINTELS AND SUPPORTS SHALL BE PAINTED, TYPICAL.

GN-15 VERIFY REQUIRED DEPTH OF ALL RECESSED SLABS WITH APPROPRIATE MANUFACTURER PRIOR TO PLACEMENT OF SLAB.

GN-16 REFER TO MECHANICAL DRAWINGS FOR ALL FLOOR DRAIN LOCATIONS, TOP OF FLOOR DRAIN ELEVATIONS ARE TYPICALLY 1" LESS THAN TYPICAL FLOOR ELEVATION, U.N.O.

GN-17 LC-BEADS SHALL BE USED AT ALL GYPSUM BOARD TERMINATIONS, TYPICAL. CORNER BEADS SHALL BE USED AT ALL GYPSUM BOARD OUTSIDE CORNERS, TYPICAL. AT ALL LC-BEADS, CORNER BEADS, AND METAL REVEALS, TRIM FLANGES SHALL BE MUDDED AND FINISHED TO PRODUCE A MONOLITHIC GYPSUM BOARD FINISH OVER THE FLANGE TO THE FINISHED EDGE.

GN-18 PAINTED ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHERE REQUIRED TO MAINTAIN CONCEALED ELECTRICAL AND MECHANICAL SYSTEMS WHETHER INDICATED ON THESE DRAWINGS OR NOT. LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.

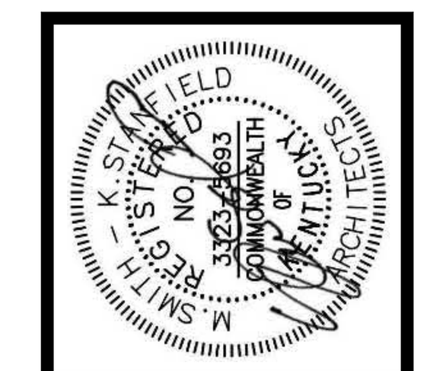
GN-19 SAWCUT ALL NON-LOAD-BEARING MASONRY SO AS TO MAINTAIN A 3/8" SOFT JOINT BETWEEN TOP OF MASONRY AND BOTTOM OF STRUCTURE.

GN-20 CONTACT BETWEEN DISSIMILAR METALS SHALL BE SEPARATED WITH BUTYL TAPE.

ALTERNATES

1. RENOVATION OF THE EARLY HEADSTART AND HEADSTART CLASSROOMS AND RESTROOMS. REFER TO DRAWINGS.
2. PRE-ENGINEERED ALUMINUM WALKWAY COVER AT MULTI-PURPOSE ROOM ENTRANCE. REFER TO DRAWINGS.
3. SITE WORK OUTSIDE OF SCHOOL PROPERTY LINES. REFER TO SITE DRAWINGS.

SHERMAN CARTER BARNHART ARCHITECTS



SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

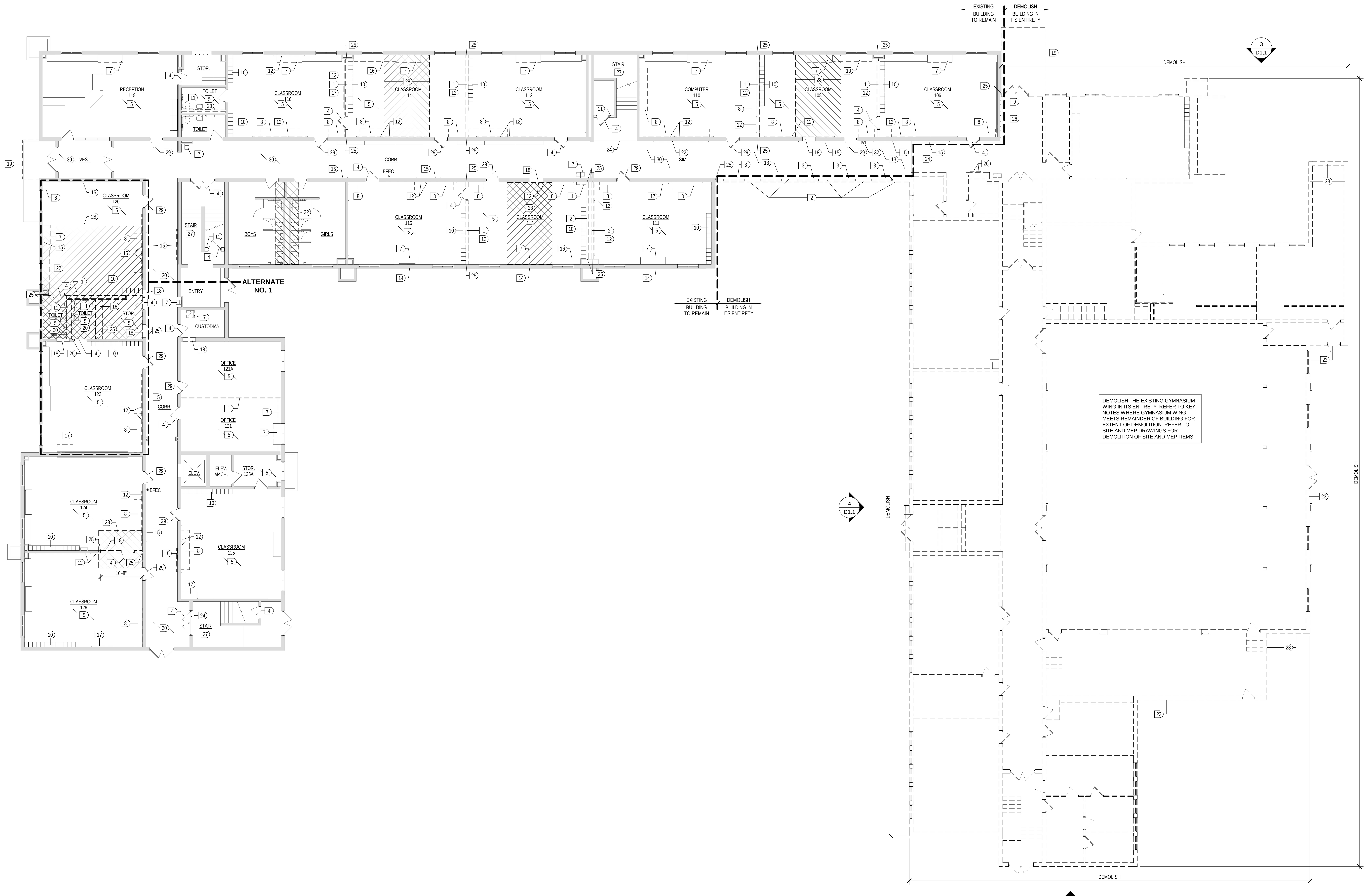
ABBREVIATIONS, PARTITION TYPES, GENERAL NOTES AND SYMBOLS LEGEND

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

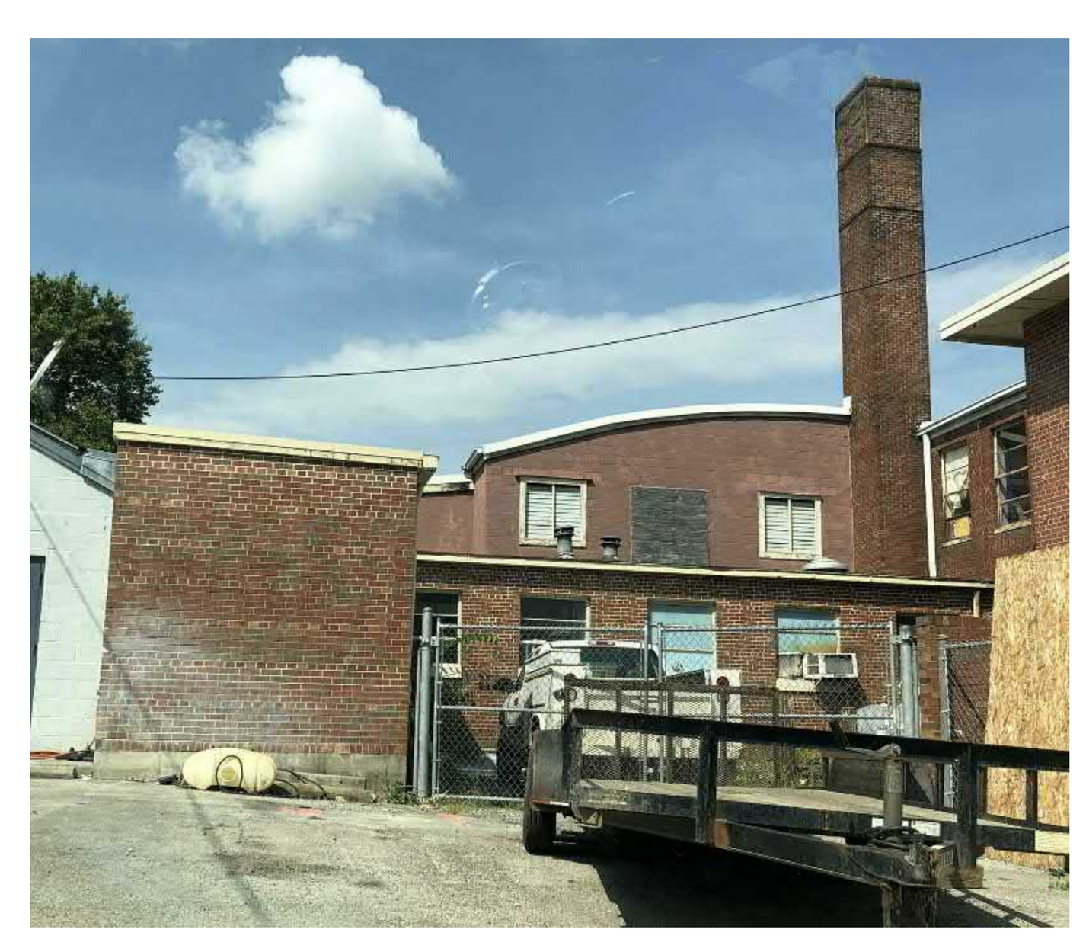
No.	Description	Date

SHEET
A0.1



1 FIRST FLOOR DEMOLITIION PLAN
3/32" = 1'-0"

4 EXISTING BUILDING



3 EXISTING BUILDING

2 EXISTING BUILDING

HAZARDOUS MATERIAL NOTES

DUE TO THE AGE OF THE EXISTING BUILDINGS, IT IS POSSIBLE HAZARDOUS MATERIALS OR TOXIC SUBSTANCES / MOLDS MAY EXIST. THIS INCLUDES BUT IS NOT LIMITED TO ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), AND OTHER TOXIC SUBSTANCES. IF ANY WORK PERSON ENCOUNTERS ANY MATERIAL OR SUBSTANCE WHICH THEY SUSPECT MIGHT BE HAZARDOUS OR TOXIC, THEY SHALL IMMEDIATELY ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT THE BUILDING USERS AND WORKERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS. 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 OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), OTHER TOXIC SUBSTANCES, OR TOXIC MOLDS.

1. THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN-CARTER-BARNHART, PLLC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, NOR IS SHERMAN-CARTER-BARNHART, PLLC DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS OR TOXIC MOLDS / SUBSTANCES.
2. IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS OR TOXIC SUBSTANCES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED IN DEALING WITH HAZARDOUS MATERIALS AND SUBSTANCES.
3. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN THE PROJECT.
4. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS, OTHER HAZARDOUS MATERIALS, OR TOXIC SUBSTANCES / MOLD RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

GENERAL DEMOLITION NOTES

1. DEMOLITION REFERENCE NOTES AND DIMENSIONS FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE SELECTIVE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED, BUT SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT.
2. THE INTENT OF THE DEMOLITION NOTES IS TO PROVIDE A GENERAL OUTLINE FOR THE CONTRACTOR OF ITEMS TO BE REMOVED AND/OR TURNED OVER TO THE OWNER AND TO ALLOW FOR THE NEW CONSTRUCTION AS OUTLINED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS TO ALLOW FOR NEW CONSTRUCTION SHOWN OR NOT SHOWN ON DEMOLITION PLANS AS MAY BE REQUIRED.
3. INFORMATION AND DRAWINGS INCLUDED IN THESE CONTRACT DOCUMENTS PERTAINING TO THIS RENOVATION PROJECT HAVE BEEN OBTAINED FROM ORIGINAL DRAWINGS PROVIDED BY SOENCER COUNTY SCHOOLS. THIS INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DIMENSIONS MAY VARY FROM THOSE INDICATED ON DRAWINGS. THE CONTRACTOR MAY REVIEW AVAILABLE ORIGINAL DRAWINGS ON FILE AT THE OWNER'S OFFICE TO FURTHER EVALUATE EXISTING CONDITIONS WHICH CAN BE ANTICIPATED TO BE ENCOUNTERED DURING DEMOLITION AND NEW CONSTRUCTION.
4. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE REMOVAL, RELOCATION AND/OR MODIFICATION OF ITEMS RELATED TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.
5. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS DURING SELECTIVE DEMOLITION AND NEW WORK WHICH ARE SUSPECTED BY THE CONTRACTOR TO BE OF AN UNKNOWN OR QUESTIONABLE COMPOSITION WITH RESPECT TO CONTAINING CONTAMINANTS WHICH MAY BE HAZARDOUS TO HUMAN HEALTH, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF SUCH FINDINGS.
6. ALL AREAS LEFT EXPOSED AS A RESULT OF DEMOLITION AND/OR EQUIPMENT REMOVAL SHALL BE PATCHED AND REPAIRED TO RESULT IN A FLUSH SMOOTH SURFACE PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. ANY AREAS / OPENINGS IN MASONRY WALLS LARGER THAN 2" EXPOSED TO VIEW SHALL BE PATCHED WITH SOAPED IN CMU UNITS TOOTHED-IN INTO EXISTING MASONRY.
7. ALL EXISTING ITEMS TO REMAIN AND/OR TO BE REINSTALLED SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND INSTALLATION OF NEW WORK.
8. THE CONSTRUCTION MANAGER SHALL COORDINATE THE WORK OF THE STRUCTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER TRADES. ANY DISCREPANCIES IN THESE DOCUMENTS, NOTIFY THE ARCHITECT BEFORE THE DEMOLITION IS DONE.
9. REFER TO HAZARDOUS MATERIALS NOTES ABOVE.
10. REMOVE ALL EXISTING INTERIOR PANEL SIGNAGE ON FIRST FLOOR.
11. REFER TO SITE DEMOLITION PLAN FOR OTHER BUILDINGS ON SITE TO BE DEMOLISHED AND ALL SITE DEMOLITION ITEMS.
12. EXISTING CLERESTORY WINDOW BETWEEN THE CORRIDOR AND THE CLASSROOMS ARE TO REMAIN, TYP.
13. ALL VCT FLOOR FINISH REMOVAL WILL BE COMPLETED BY OWNER PRIOR TO START OF WORK.

X DEMOLITION KEYNOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

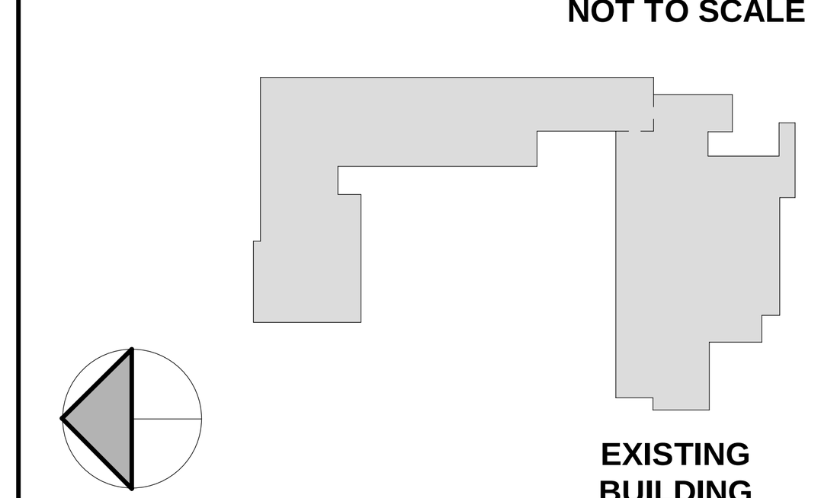
1. NON-LOAD BEARING WALL/PIER TO BE REMOVED.
2. LOAD BEARING MASONRY WALL TO BE REMOVED FULL HEIGHT TO EXTENTS SHOWN TO 8" BELOW FIRST FLOOR SLAB. PROVIDE TEMPORARY SHORING AS REQUIRED.
3. REMOVE EXISTING WINDOW IN ITS ENTIRETY.
4. REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY.
5. REMOVE EXISTING CEILING ABOVE IN ITS ENTIRETY.
6. EXISTING STRUCTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
7. REMOVE EXISTING MECH/ELEC/PLUMBING EQUIPMENT. REFER TO MEP DWGS.
8. WALL MOUNTED COUNTERTOPS REMOVED BY OWNER (N.I.C.)
9. REMOVE EXISTING FACE BRICK, EXISTING CMU TO REMAIN.
10. REMOVE CASEWORK AND STORE DURING CONSTRUCTION FOR REINSTALLATION.
11. REMOVE EXISTING WALL
12. REMOVE EXISTING MARKERBOARD/TACKBOARD AND STORE DURING CONSTRUCTION FOR REINSTALLATION.
13. FLOOR ABOVE TO REMAIN AFTER ADJACENT LOAD BEARING WALL IS REMOVED. SHORE AS REQUIRED. REFER TO NEW WORK PLAN FOR COORDINATION.
14. REMOVE LOUVER IN EXTERIOR WALL. REFER TO DETAIL 15/A6.1.
15. REMOVE EXISTING MARKERBOARD/TACKBOARD AND RETURN TO OWNER.
16. REMOVE CASEWORK AND RETURN TO OWNER.
17. SMARTBOARD TO BE REMOVED BY OWNER.
18. REMOVE PORTION OF EXISTING WALL AS REQUIRED FOR NEW CONST., REFER TO NEW WORK PLANS.
19. DEMOLISH CANOPY IN ITS ENTIRETY.
20. REMOVE ALL FLOOR TILE, WALL TILE, PLUMBING FIXTURES AND ACCESSORIES IN THEIR ENTIRETY.
21. CANOPY DEMOLITION BY OWNER.
22. REMOVE CASEWORK, TACKBOARD, OR MARKERBOARD.
23. PORTIONS OF THIS WALL ARE A RETAINING WALL. REFER TO STRUCT. DWGS. FOR TEMP SHORING DURING DEMOLITION.
24. SAWCUT EXISTING SLAB.
25. SAWCUT TO REMOVE WALL.
26. REMOVE PLAQUE AND RETURN TO OWNER.
27. REMOVE ALL EXISTING STAIR TREADS.
28. REMOVE PLASTER @ BOTTOM OF FLOOR STRUCT. ABOVE FOR INSTALLATION OF NEW WORK.
29. REMOVE DOOR AND HARDWARE ONLY. FRAME TO REMAIN
30. REMOVE CONC. SLAB. REFER TO STRUCT. IN CORRIDORS. SAW CUT @ DOOR OPENINGS.
31. SAW CUT SLAB.
32. REMOVE EXISTING FIRE EXTINGUISHER CABINET.
33. REMOVE AND REINSTALL LAY-IN CEILING AS REQUIRED FOR NEW WORK.

LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED
- SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING EXTERIOR WINDOWS TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING DOOR AND FRAME. REFER TO DEMOLITION NOTES.
- EXISTING DOOR AND FRAME TO REMAIN.

KEY PLAN

NOT TO SCALE



SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

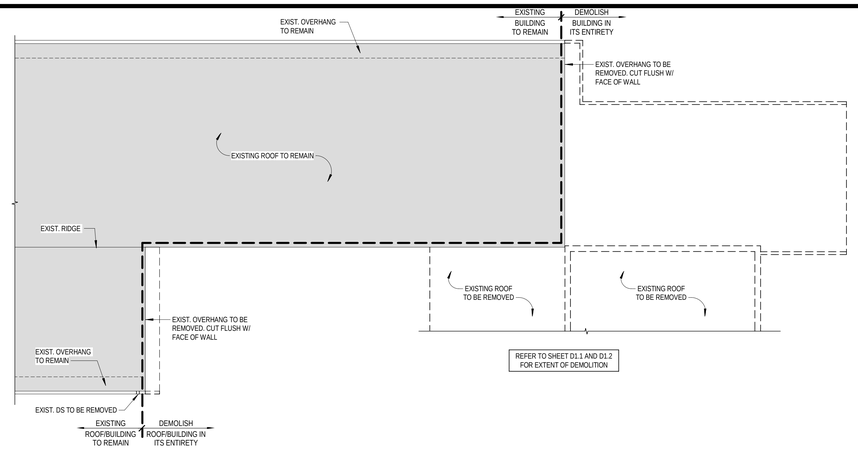
FIRST FLOOR DEMOLITION PLAN

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

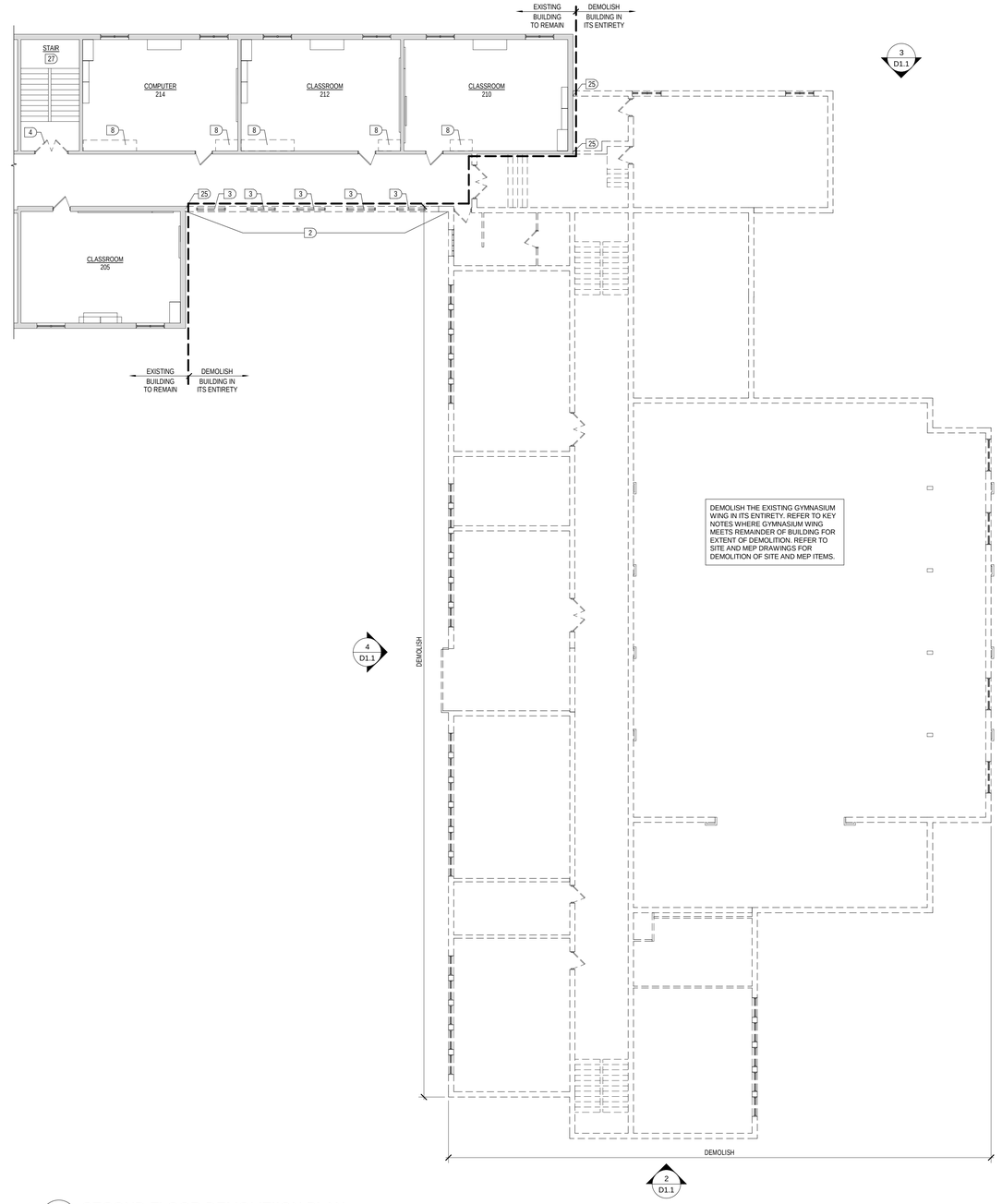
No.	Description	Date

SHEET
D1.1



2 PARTIAL ROOF DEMOLITION PLAN

3/32" = 1'-0"



1 SECOND FLOOR DEMOLITIION PLAN

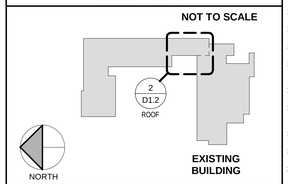
3/32" = 1'-0"

LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED
- SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING EXTERIOR WINDOWS TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING DOOR AND FRAME. REFER TO DEMOLITION NOTES.
- EXISTING DOOR AND FRAME TO REMAIN.

KEY PLAN

NOT TO SCALE



HAZARDOUS MATERIAL NOTES

DUE TO THE AGE OF THE EXISTING BUILDINGS, IT IS POSSIBLE HAZARDOUS MATERIALS OR TOXIC SUBSTANCES / MOLDS MAY EXIST. THIS INCLUDES BUT IS NOT LIMITED TO ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), AND OTHER TOXIC SUBSTANCES. IF ANY WORK PERSON ENCOUNTERS ANY MATERIAL OR SUBSTANCE WHICH THEY SUSPECT MIGHT BE HAZARDOUS OR TOXIC, THEY SHALL IMMEDIATELY ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT THE BUILDING USERS AND WORKERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS. 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 OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), OTHER TOXIC SUBSTANCES, OR TOXIC MOLDS.

1. THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN-CARTER-BARNHART, PLLC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, NOR IS SHERMAN-CARTER-BARNHART, PLLC DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS OR TOXIC MOLDS / SUBSTANCES.
2. IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS OR TOXIC SUBSTANCES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED IN DEALING WITH HAZARDOUS MATERIALS AND SUBSTANCES.
3. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN THE PROJECT.
4. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS, OTHER HAZARDOUS MATERIALS, OR TOXIC SUBSTANCES / MOLD RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

GENERAL DEMOLITION NOTES

1. DEMOLITION REFERENCE NOTES AND DIMENSIONS FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE SELECTIVE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED, BUT SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT.
2. THE INTENT OF THE DEMOLITION NOTES IS TO PROVIDE A GENERAL OUTLINE FOR THE CONTRACTOR OF ITEMS TO BE REMOVED AND/OR TURNED OVER TO THE OWNER AND TO ALLOW FOR THE NEW CONSTRUCTION AS OUTLINED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS TO ALLOW FOR NEW CONSTRUCTION SHOWN OR NOT SHOWN ON DEMOLITION PLANS AS MAY BE REQUIRED.
3. INFORMATION AND DRAWINGS INCLUDED IN THESE CONTRACT DOCUMENTS PERTAINING TO THIS RENOVATION PROJECT HAVE BEEN OBTAINED FROM ORGINAL DRAWINGS PROVIDED BY SOENCER COUNTY SCHOOLS. THIS INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DIMENSIONS MAY VARY FROM THOSE INDICATED ON DRAWINGS. THE CONTRACTOR MAY REVIEW AVAILABLE ORIGINAL DRAWINGS ON FILE AT THE OWNER'S OFFICE TO FURTHER EVALUATE EXISTING CONDITIONS WHICH CAN BE ANTICIPATED TO BE ENCOUNTERED DURING DEMOLITION AND NEW CONSTRUCTION.
4. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE REMOVAL, RELOCATION AND/OR MODIFICATION OF ITEMS RELATED TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.
5. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS DURING SELECTIVE DEMOLITION AND NEW WORK WHICH ARE SUSPECTED BY THE CONTRACTOR TO BE OF AN UNKNOWN OR QUESTIONABLE COMPOSITION WITH RESPECT TO CONTAINING CONTAMINANTS WHICH MAY BE HAZARDOUS TO HUMAN HEALTH, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF SUCH FINDINGS.
6. ALL AREAS LEFT EXPOSED AS A RESULT OF DEMOLITION AND/OR EQUIPMENT REMOVAL SHALL BE PATCHED AND REPAIRED TO RESULT IN A FLUSH SMOOTH SURFACE PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. ANY AREAS / OPENINGS IN MASONRY WALLS LARGER THAN 2" EXPOSED TO VIEW SHALL BE PATCHED WITH SOAPED IN CMU UNITS TOOTHED-IN INTO EXISTING MASONRY.
7. ALL EXISTING ITEMS TO REMAIN AND/OR TO BE REINSTALLED SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND INSTALLATION OF NEW WORK.
8. THE CONSTRUCTION MANAGER SHALL COORDINATE THE WORK OF THE STRUCTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER TRADES. ANY DISCREPANCIES IN THESE DOCUMENTS, NOTIFY THE ARCHITECT BEFORE THE DEMOLITION IS DONE.
9. REFER TO HAZARDOUS MATERIALS NOTES ABOVE.
10. REMOVE ALL EXISTING INTERIOR PANEL SIGNAGE ON FIRST FLOOR.
11. REFER TO SITE DEMOLITION PLAN FOR OTHER BUILDINGS ON SITE TO BE DEMOLISHED AND ALL SITE DEMOLITION ITEMS.
12. EXISTING CLERESTORY WINDOW BETWEEN THE CORRIDOR AND THE CLASSROOMS ARE TO REMAIN, TYP.
13. ALL VCT FLOOR FINISH REMOVAL WILL BE COMPLETED BY OWNER PRIOR TO START OF WORK.

DEMOLITION KEYNOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

1. NON-LOAD BEARING WALL/PIER TO BE REMOVED.
2. LOAD BEARING MASONRY WALL TO BE REMOVED FULL HEIGHT TO EXTENTS SHOWN TO 8" BELOW FIRST FLOOR SLAB. PROVIDE TEMPORARY SHORING AS REQUIRED.
3. REMOVE EXISTING WINDOW IN ITS ENTIRETY.
4. REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY.
5. REMOVE EXISTING CEILING ABOVE IN ITS ENTIRETY.
6. EXISTING STRUCTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
7. REMOVE EXISTING MECH/ELEC/PLUMBING EQUIPMENT. REFER TO MEP DWGS.
8. WALL MOUNTED COUNTERTOPS REMOVED BY OWNER (N.I.C.)
9. REMOVE EXISTING FACE BRICK, EXISTING CMU TO REMAIN.
10. REMOVE CASEWORK AND STORE DURING CONSTRUCTION FOR REINSTALLATION.
11. REMOVE EXISTING WALL
12. REMOVE EXISTING MARKERBOARD/TACKBOARD AND STORE DURING CONSTRUCTION FOR REINSTALLATION.
13. FLOOR ABOVE TO REMAIN AFTER ADJACENT LOAD BEARING WALL IS REMOVED. SHORE AS REQUIRED. REFER TO NEW WORK PLAN FOR COORDINATION.
14. REMOVE LOUVER IN EXTERIOR WALL. REFER TO DETAIL 15/A6.1.
15. REMOVE EXISTING MARKERBOARD/TACKBOARD AND RETURN TO OWNER.
16. REMOVE CASEWORK AND RETURN TO OWNER.
17. SMARTBOARD TO BE REMOVED BY OWNER.
18. REMOVE PORTION OF EXISTING WALL AS REQUIRED FOR NEW CONST., REFER TO NEW WORK PLANS.
19. DEMOLISH CANOPY IN ITS ENTIRETY.
20. REMOVE ALL FLOOR TILE, WALL TILE, PLUMBING FIXTURES AND ACCESSORIES IN THEIR ENTIRETY.
21. CANOPY DEMOLITION BY OWNER.
22. REMOVE CASEWORK, TACKBOARD, OR MARKERBOARD.
23. PORTIONS OF THIS WALL ARE A RETAINING WALL. REFER TO STRUCT. DWGS. FOR TEMP SHORING DURING DEMOLITION.
24. SAWCUT EXISTING SLAB.
25. SAWCUT TO REMOVE WALL.
26. REMOVE PLAQUE AND RETURN TO OWNER.
27. REMOVE ALL EXISTING STAIR TREADS.
28. REMOVE PLASTER @ BOTTOM OF FLOOR STRUCT. ABOVE FOR INSTALLATION OF NEW WORK.
29. REMOVE DOOR AND HARDWARE ONLY. FRAME TO REMAIN
30. REMOVE CONC. SLAB. REFER TO STRUCT. IN CORRIDORS. SAW CUT @ DOOR OPENINGS.
31. SAW CUT SLAB.
32. REMOVE EXISTING FIRE EXTINGUISHER CABINET.
33. REMOVE AND REINSTALL LAY-IN CEILING AS REQUIRED FOR NEW WORK.

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SECOND FLOOR AND ROOF DEMOLITION PLAN

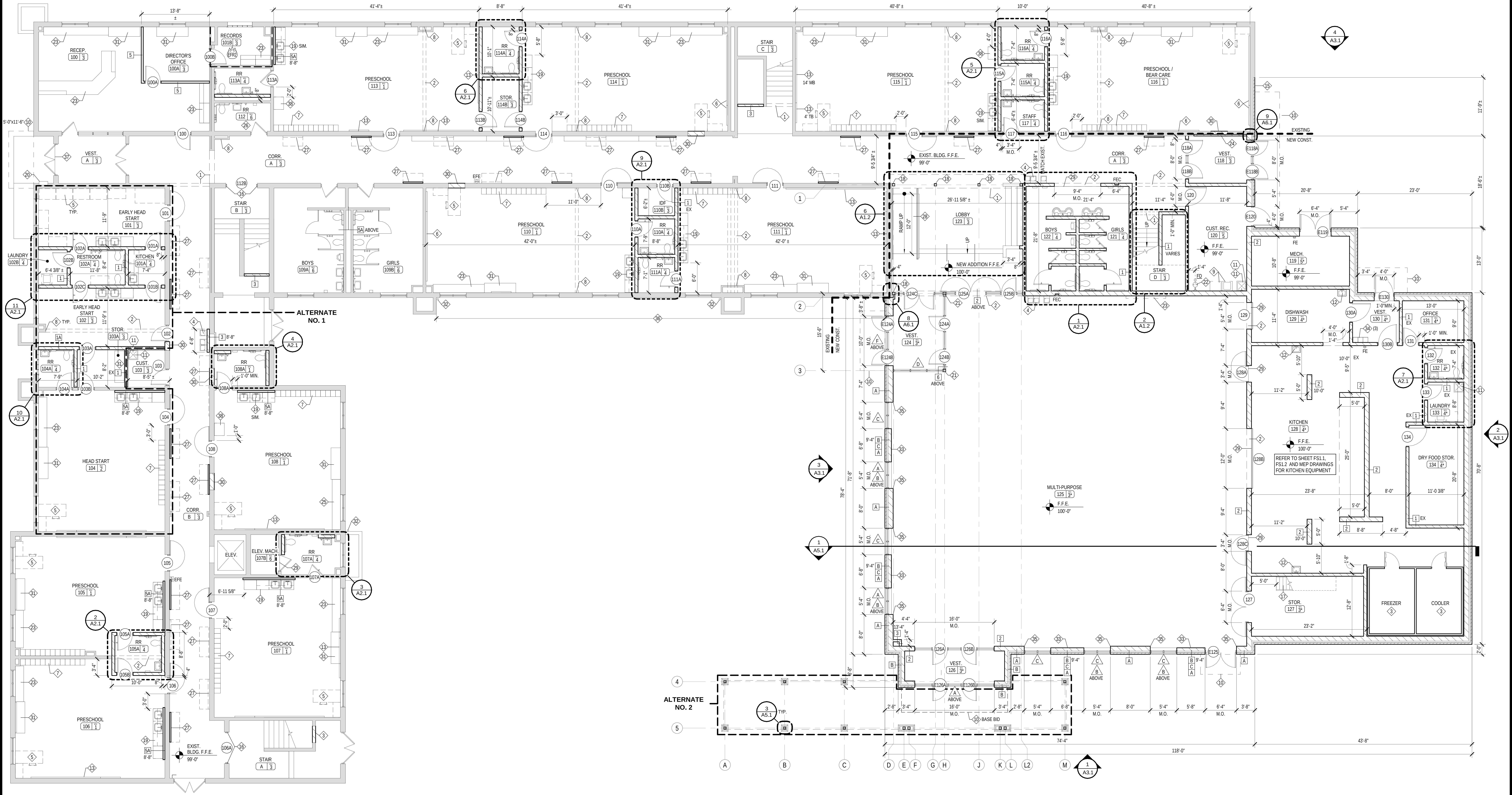
JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

No.	Description	Date

SHEET

D1.2



1 FIRST FLOOR NEW WORK FLOOR PLAN

1/8" = 1'-0"

NEW WORK KEYNOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

1. LINE OF GYP. BD. SOFFIT, BULKHEAD OR CEILING EDGE ABOVE, REFER TO REFLECTED CEILING PLANS.
2. LINE OF LINTEL ABOVE, (PAINT BY OWNER). REFER TO REFLECTED CEILING PLAN.
3. EXTEND FLOOR FINISH AND BASE UNDER/BEHIND COOLER AND FREEZER.
4. DRINKING FOUNTAINS.
5. FURNISHINGS, N.I.C.
6. EXISTING TACKBOARD OR MARKERBOARD. PROTECT DURING CONST.
7. REINSTALL EXISTING CUBBIES.
8. PATCH AND REPAIR EXISTING SURFACES IN AREA OF DEMOLITION TO LIKE NEW CONDITION.
9. WASHER AND DRYER, N.I.C.
10. LINE OF CANOPY OR ROOF ABOVE. REFER TO ROOF PLAN.
11. MOP SINK.
12. HAND WASH SINK.
13. NEW 4'-0" HIGH MARKERBOARD (MB) OR TACKBOARD (TB). MOUNT BOTTOM @ 2'-0" A.F.F. REFER TO PLAN FOR WIDTH.
14. TRANSITION BETWEEN EXISTING AND NEW VCT.
15. NEW BRICK. REFER TO ELEVATIONS AND DETAIL 9/A6.1.
16. NEW H.M. FRAME ONLY. REFER TO A8.1.
17. INDUSTRIAL STAIR AND ROOF HATCH ABOVE. REFER TO DETAIL 2/A5.1.
18. STEEL COLUMN, PAINT WHERE EXPOSED. REFER TO DETAIL 5/A6.1 WHERE COLUMN IS ADJACENT TO WALL.
19. TYPICAL CLASSROOM CASEWORK. REFER TO 8/A2.1.
20. KNOX BOX. SAWCUT EXISTING MASONRY VENEER TO INSTALL.
21. STEEL COLUMN, REFER TO DETAIL 17/A8.2.
22. EMERGENCY EYEWASH STATION.
23. EXISTING CASEWORK. PROTECT DURING CONSTRUCTION.
24. WHERE STAIR ABOVE WAS REMOVED, PROVIDE 4" CMU INFILL UP TO BOTTOM OF 8" CMU ABOVE.
25. REINSTALL EXISTING BOOKCASE TO CONCEAL PIPING.
26. NO NEW ARCHITECTURAL WORK.
27. GYP. BD. ASSEMBLY AND SOFFIT ABOVE. REFER TO A7.1. PAINT ACCENT COLOR.
28. RAMP W/ RAISED RADIAL TILE. REFER TO 5/A1.2.
29. FLOOR FINISH TRANSITION. REFER TO A8.1.
30. NEW CMU INFILL. REFER TO DETAIL 6/A6.1.
31. MECHANICAL UNIT.
32. CUT EXISTING DOWNSPOUT 1'-0" ABOVE PLANTER BELOW. CONNECT NEW DOWNSPOUT AND ROUTE AROUND PLANTER. TIE INTO BOOT. CAP EXISTING DOWNSPOUT INSIDE PLANTER.
33. PROVIDE ACCENT PAINT AT WALL RECESS.
34. 12"x12" DOUBLE TIER LOCKERS. REFER TO SPECS. REFER TO BASE DETAIL 23/A6.1.
35. TRANSITIION FROM WALL TYPE A TO WALL TYPE B. REFER TO DETAIL 11/A6.1.
36. REMOVE EXISTING LOUVERS AT FIRST FLOOR CLASSROOMS, INFILL OPENINGS, AND PROVIDE NEW CONTINOUS FLASHING. REFER TO 15/A6.1.
37. PROVIDE EXTERIOR THRESHOLD. REFER TO A8.1.
38. TEACHERS WARDROBE LOCATION. REFER TO 8/A2.1

GENERAL NEW WORK NOTES

A. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC ITEMS NOT SHOWN ON THIS SHEET.

B. REFER TO ROOF PLAN AND MECH DRAWINGS FOR ADDITIONAL INFORMATION REGARDING WORK AT ROOF.

C. REFER TO SHEET A0.1 FOR GENERAL NOTES.

SYMBOLS LEGEND

- NAME / # RFG — ROOM FINISH GROUPS (REFER TO SHEET A0.1); ROOM NUMBER
- DOOR NUMBER (DOOR SCHEDULE, SHEET A8.1) * ASTERISK DENOTES DOORS IN ALT. NO. 4
- NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.1)
- WALL TYPE (SCHEDULE, SHEET A0.1)
- PUNCHED OPENING (FRAME TYPES, SHEET A8.1)
- TOILET ACCESSORIES (SCHEDULE, SHEET A2.1)
- CEILING PLAN KEY NOTE (SHEET A7.1)
- SIGNAGE KEY NOTE (SHEET A0.1)
- FE — NEW SURFACE MTD. FIRE EXTINGUISHER
- EFE — EXISTING FIRE EXTINGUISHER TO REMAIN
- FEC — NEW FIRE EXTINGUISHER CABINET
- SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN
- EFR2 — EXISTING 2 HOUR FIRE RESISTANT PARTITION (KDE REQUIREMENT)

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

FIRST FLOOR NEW WORK PLAN

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

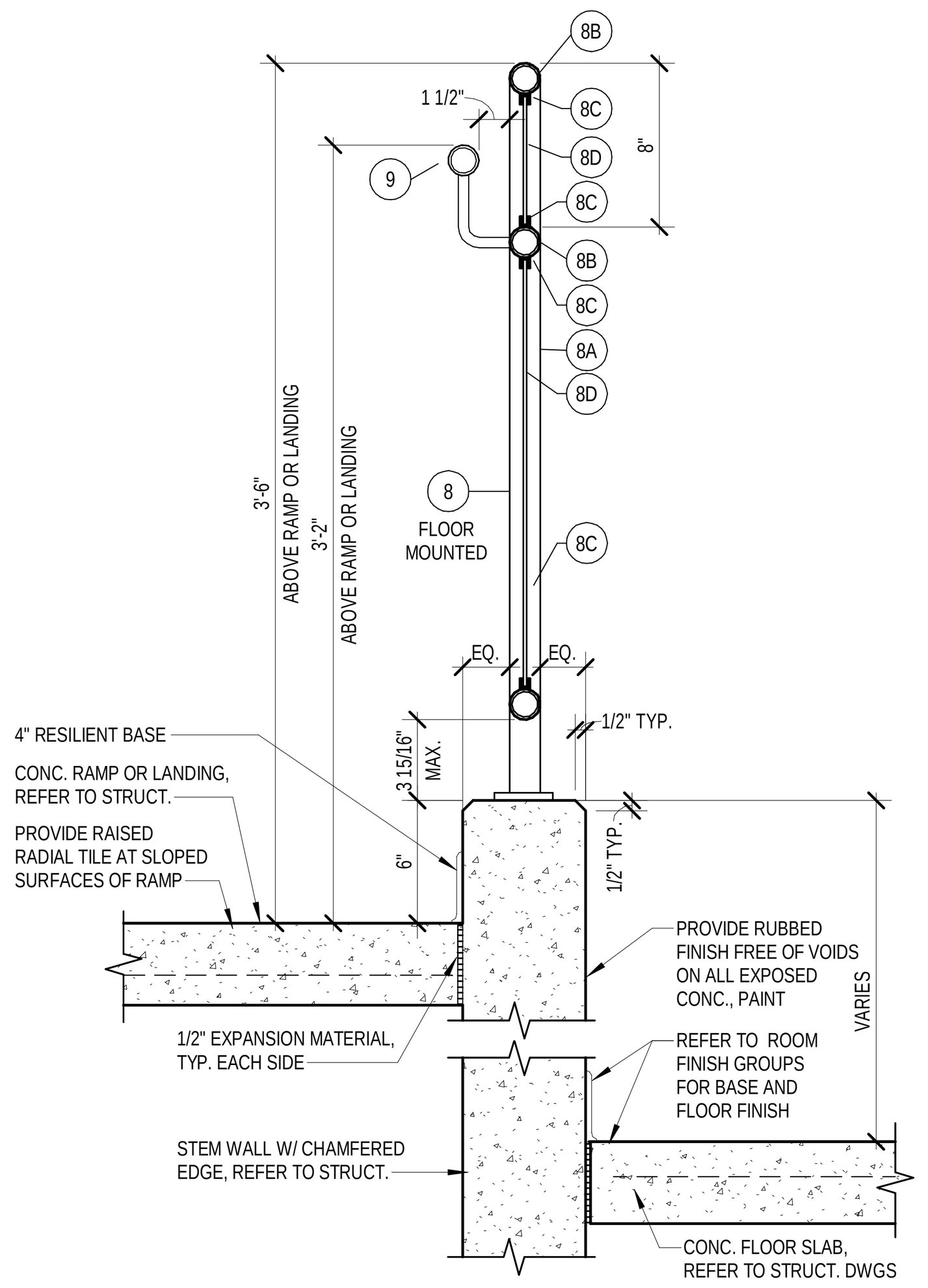
REVISIONS

No.	Description	Date

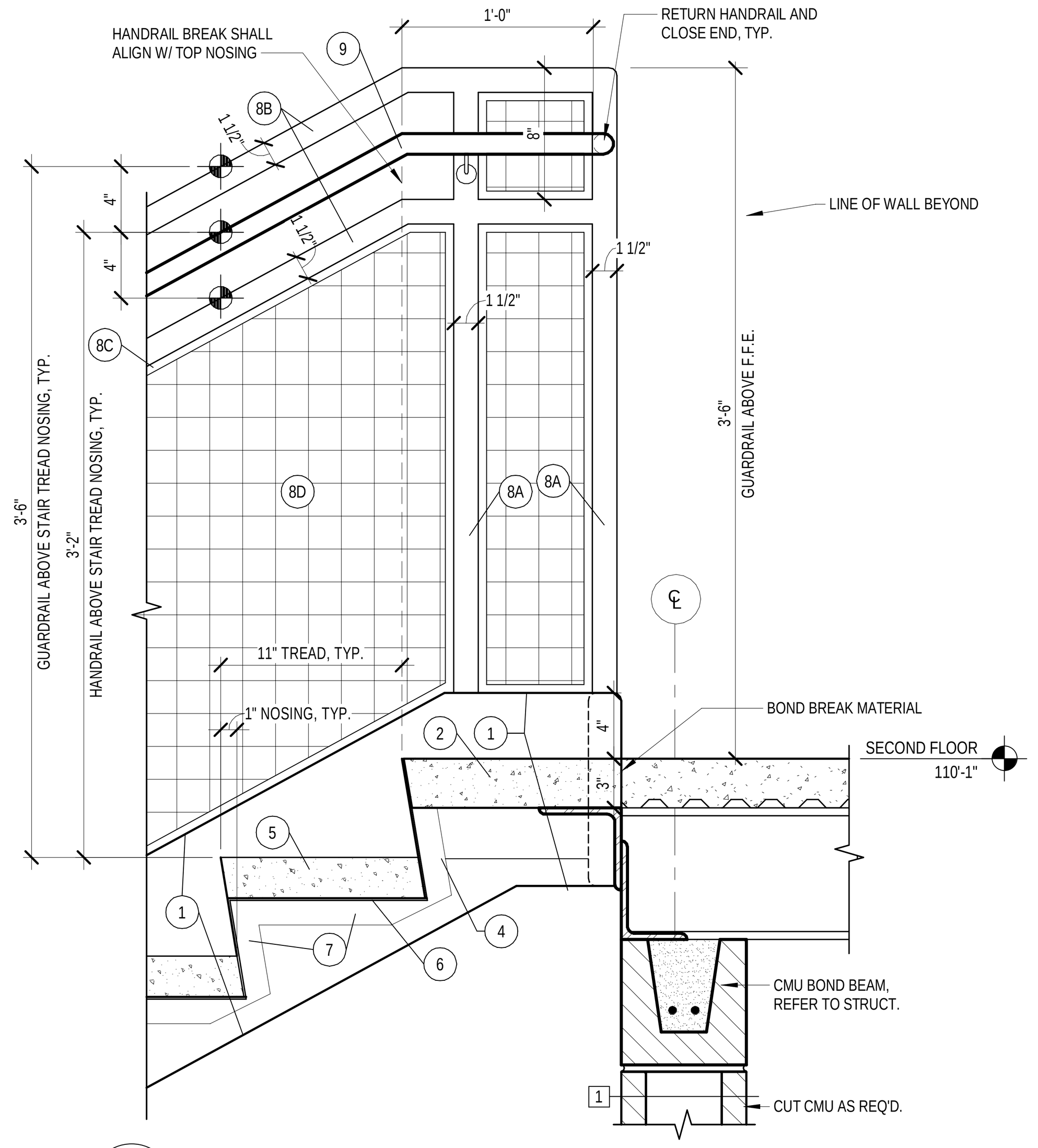
SHEET

A1.1

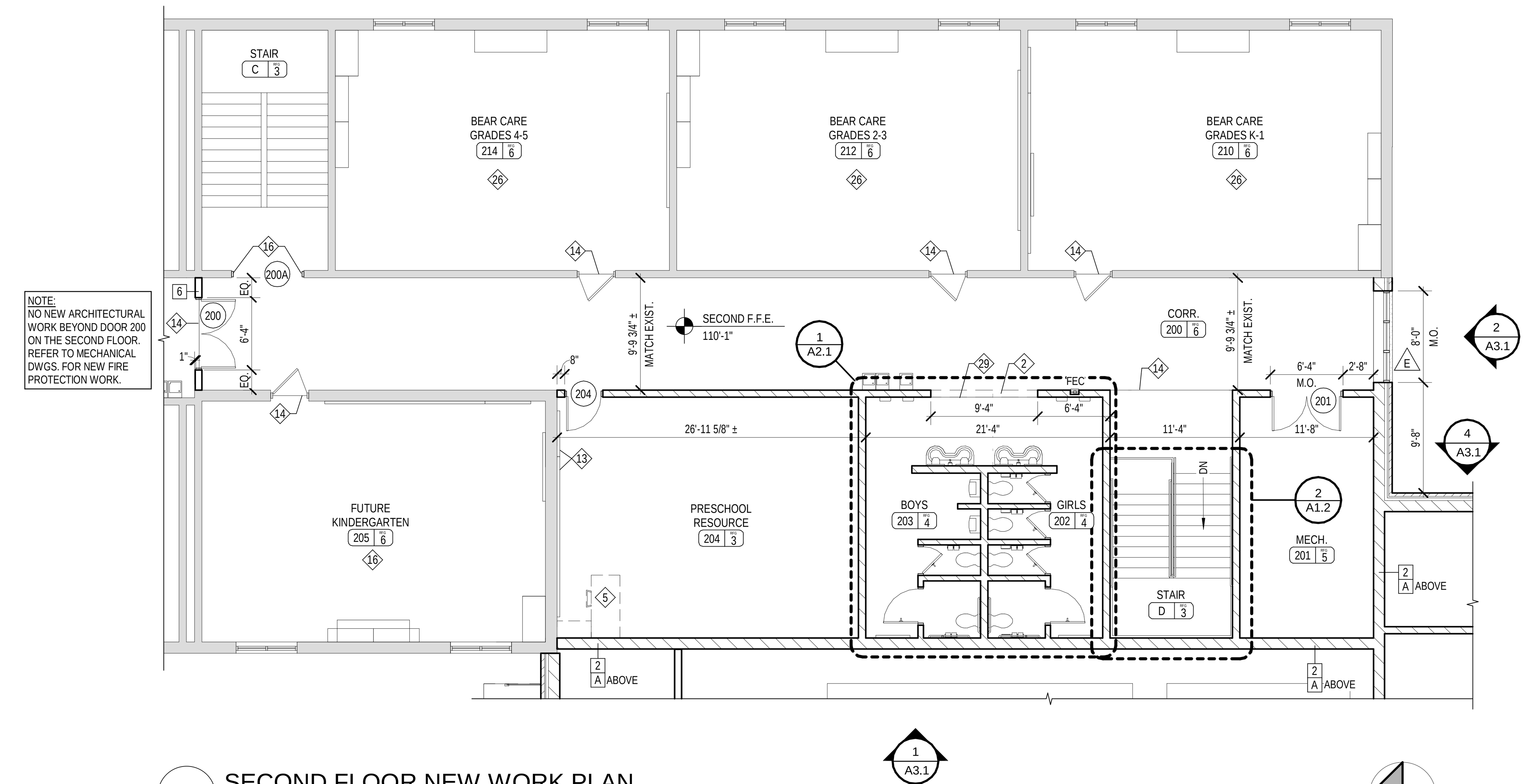
1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:48:30 AM



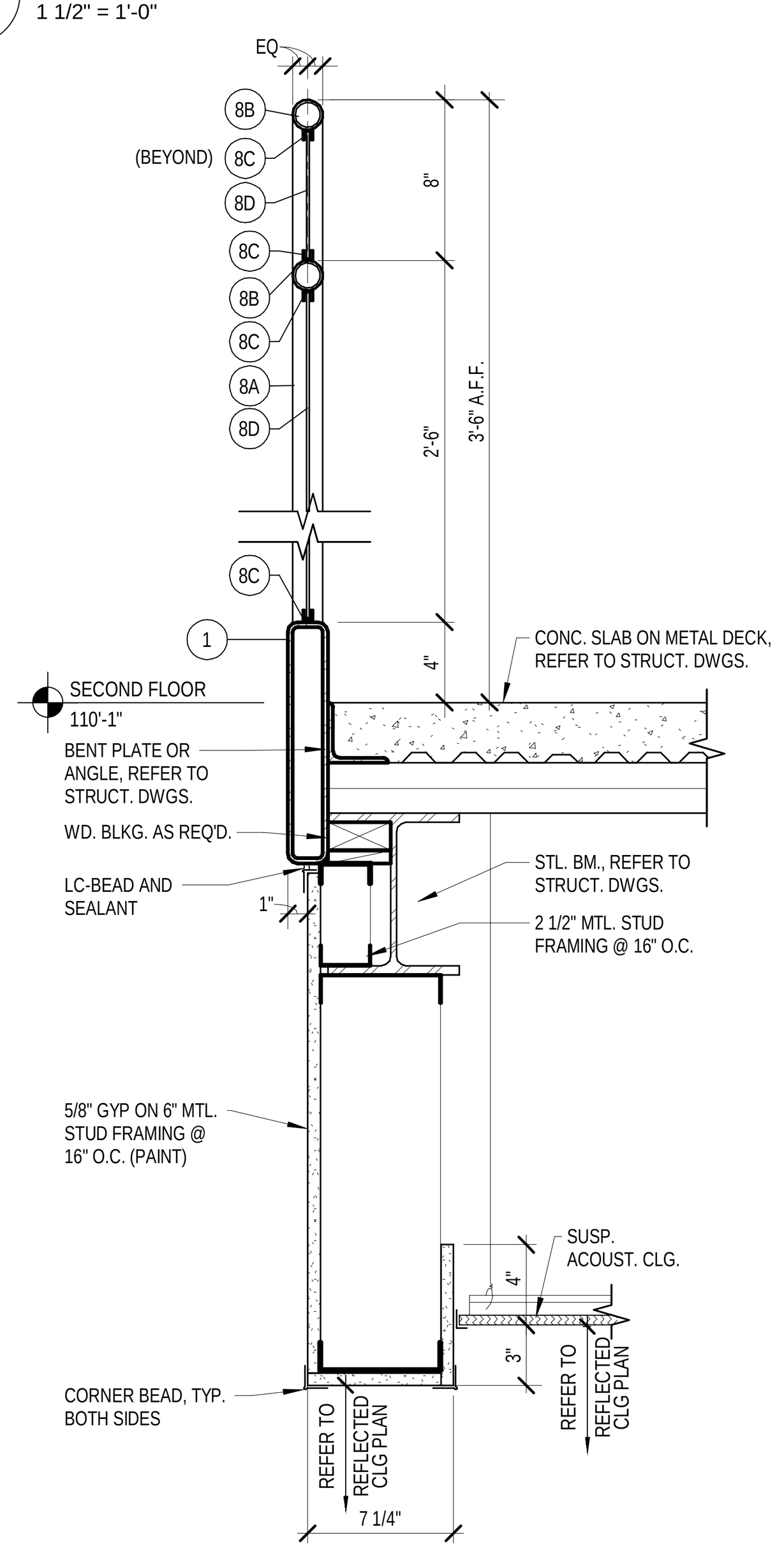
10 GUARDRAIL DETAIL @ RAMP
1 1/2" = 1'-0"



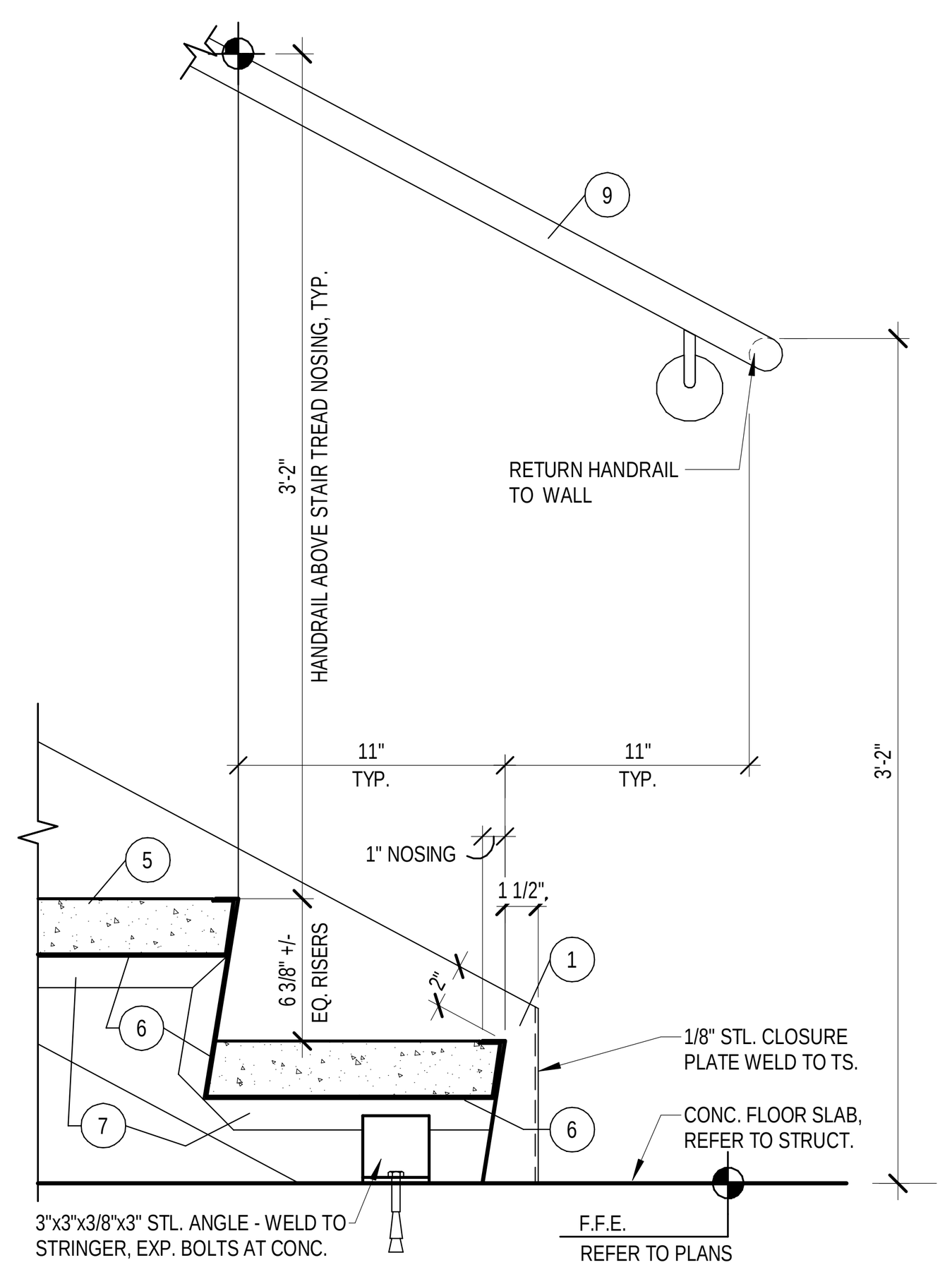
8 STAIR DETAIL
1 1/2" = 1'-0"



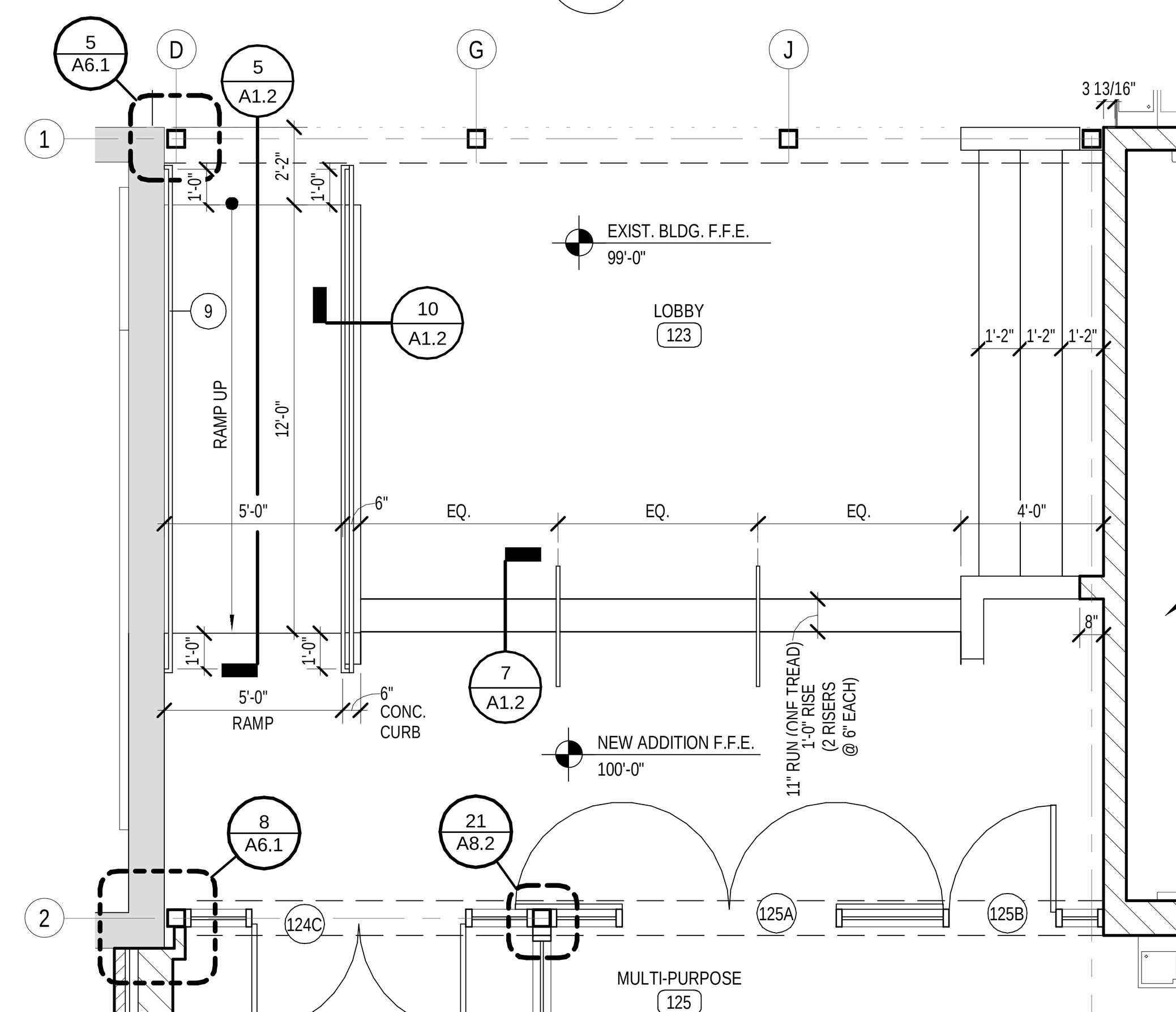
1 SECOND FLOOR NEW WORK PLAN
1/8" = 1'-0"



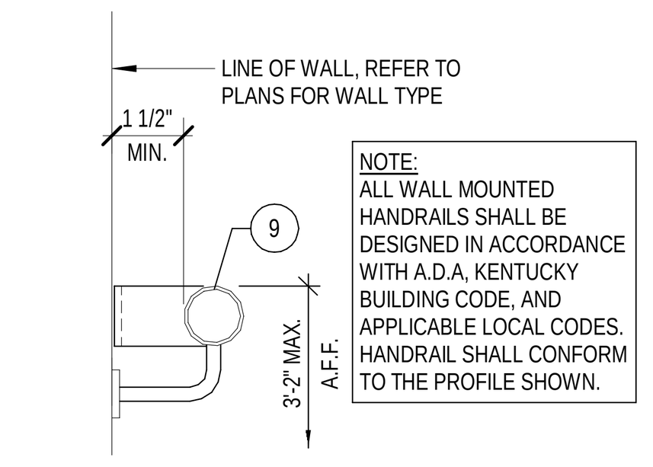
11 GUARDRAIL DETAIL
1 1/2" = 1'-0"



9 STAIR DETAIL @ SLAB
1 1/2" = 1'-0"

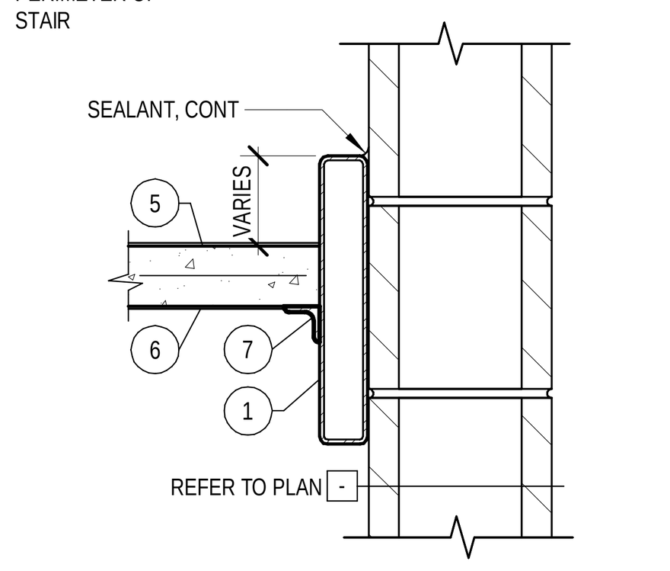


6 ENLARGED LOBBY
1/4" = 1'-0"

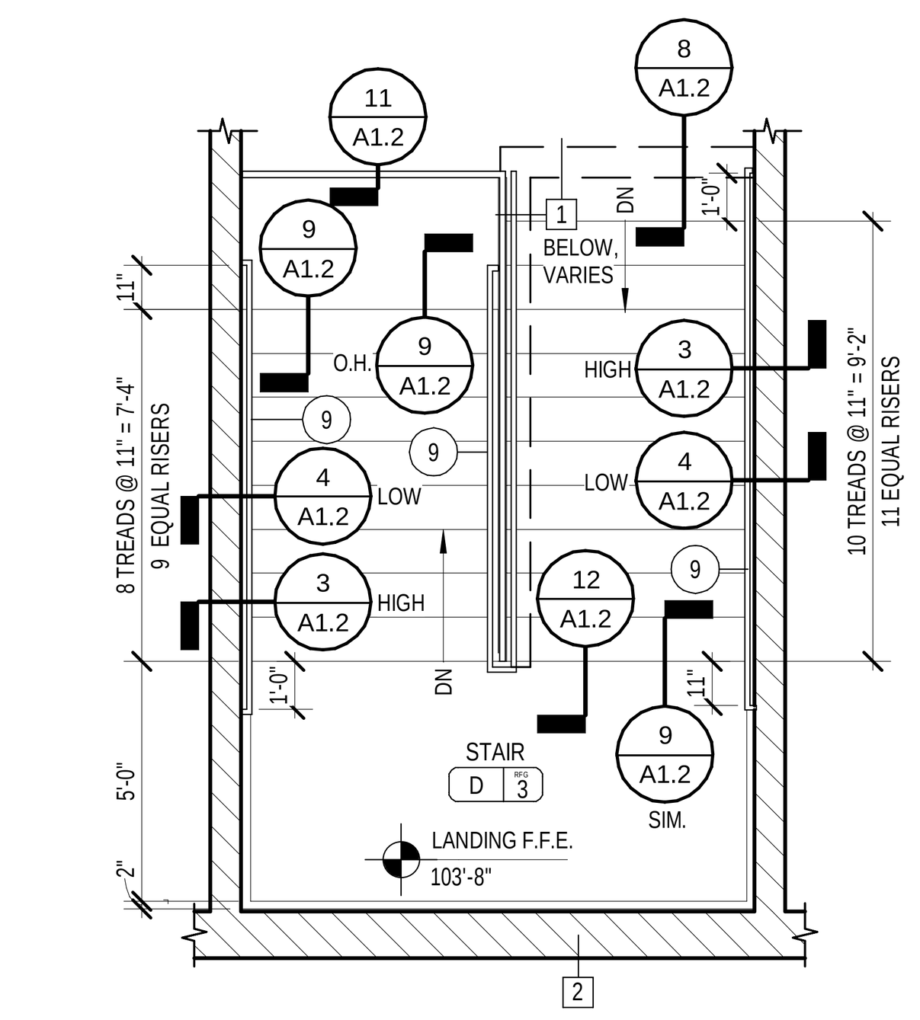


3 HANDRAIL DETAIL
3" = 1'-0"

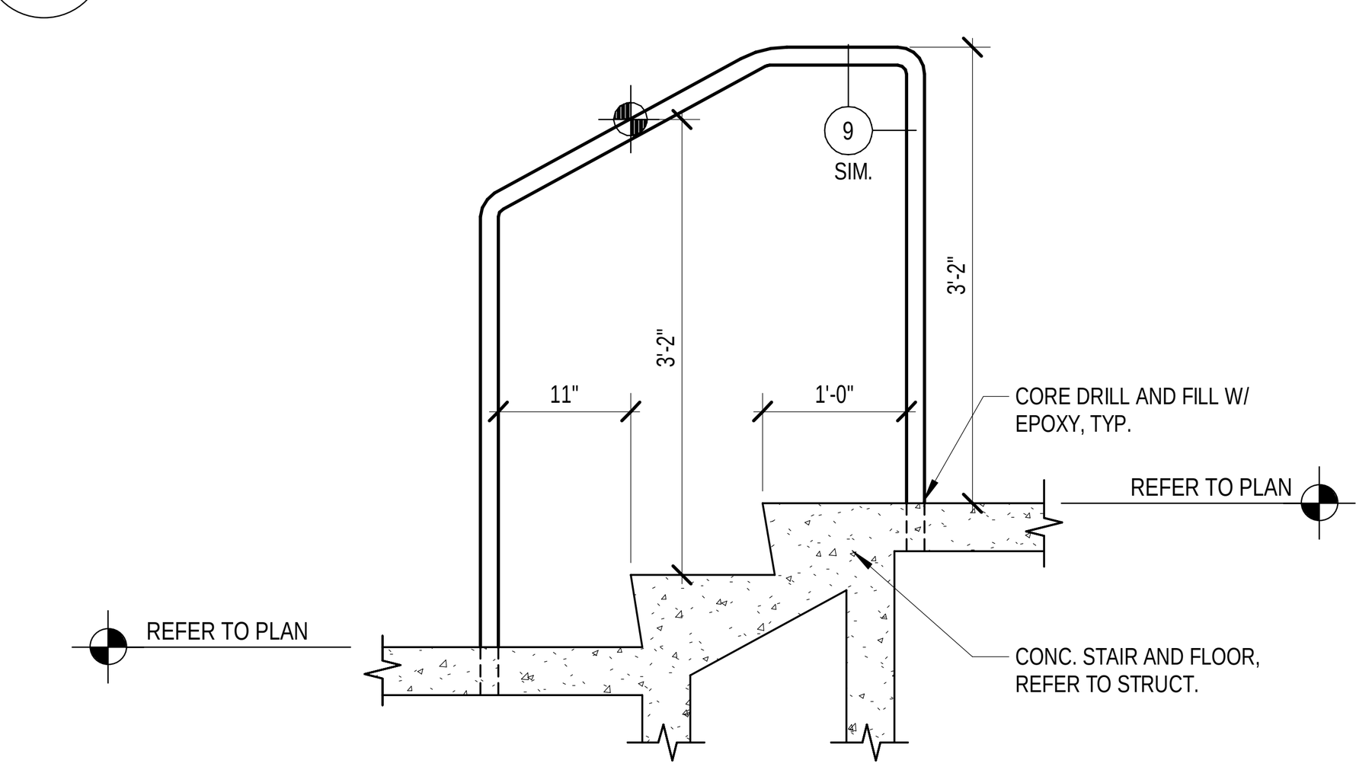
PROVIDE RUBBER TREADS AND RISERS FULL PERIMETER OF STAIR



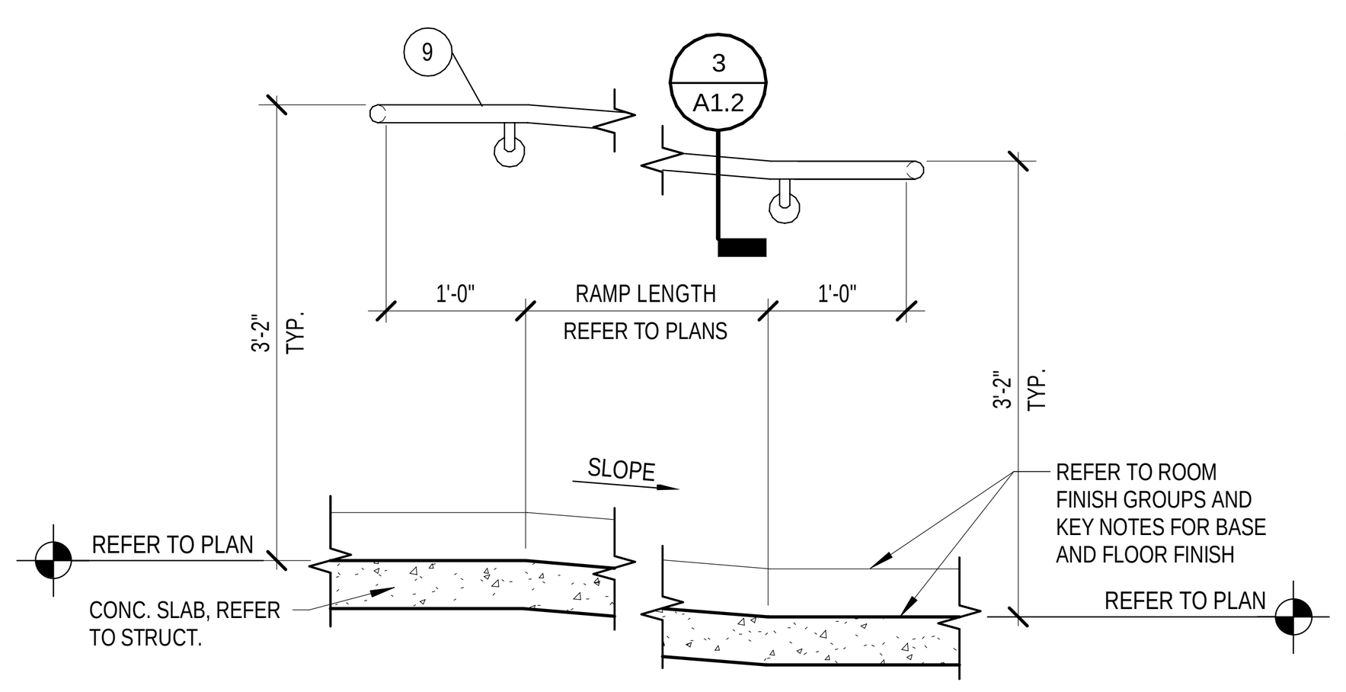
4 STAIR DETAIL
1 1/2" = 1'-0"



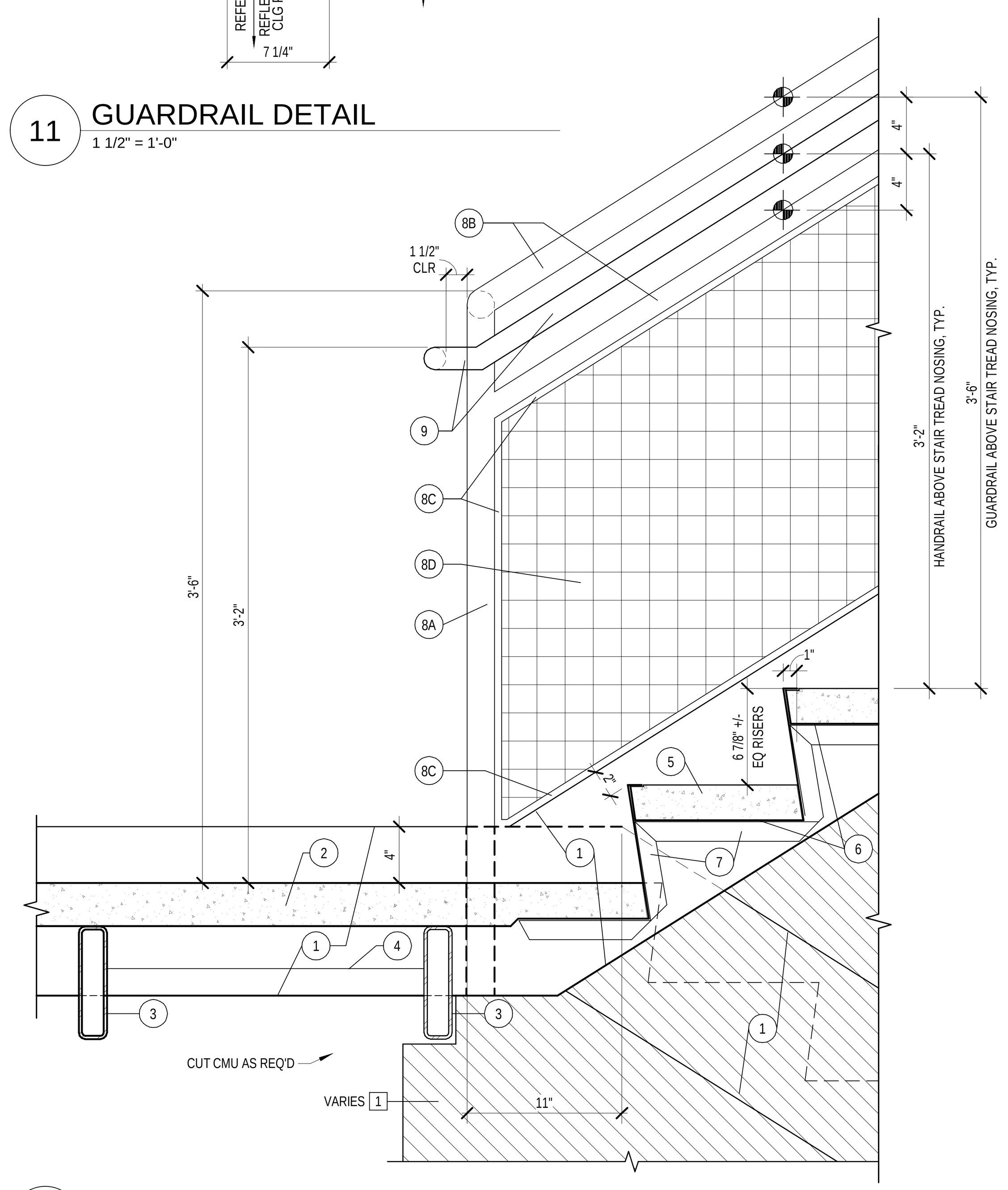
2 ENLARGED STAIR PLAN
1/4" = 1'-0"



7 HANDRAIL DETAIL
3/4" = 1'-0"



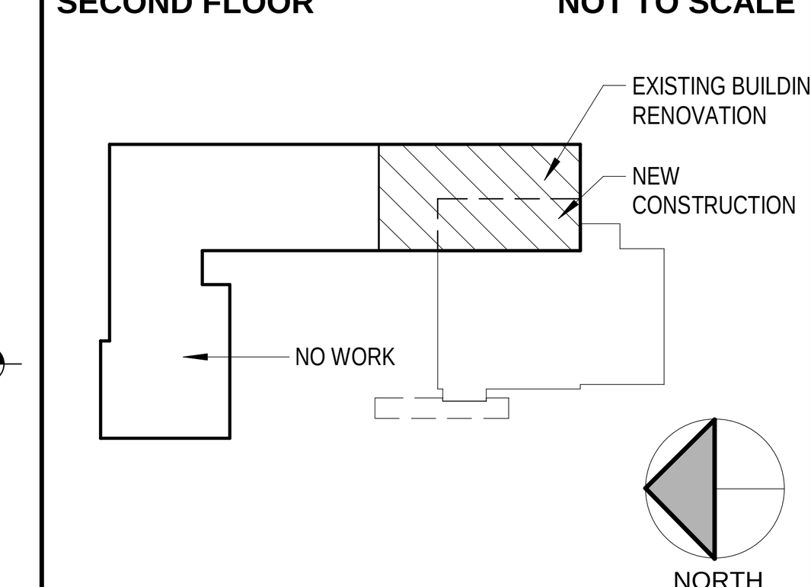
5 HANDRAIL DETAIL @ RAMP
3/4" = 1'-0"



12 STAIR DETAIL @ LANDING
1 1/2" = 1'-0"

KEY PLAN

SECOND FLOOR NOT TO SCALE



STAIR, HANDRAIL & GUARDRAIL NOTES

GENERAL:

A. STEEL STAIR, LANDING AND RAILING ASSEMBLIES SHALL BE DESIGNED AND FABRICATED AS REQUIRED TO MEET OR EXCEED ALL SPECIFIED AND CODE REQUIREMENT DESIGN LOADINGS.

B. EXTEND ALL HANDRAILS ONE TREAD DEPTH DIAG. BEYOND BOTTOM RISER AND 12" HORIZ. BEYOND TOP RISER AT STAIR LOCATIONS.

C. FIELD PAINT ALL EXPOSED STEEL COMPONENTS WITH SPECIFIED COATING OVER SHOP APPLIED PRIMER. PROVIDE LANDING, TREAD, AND RISER FINISHES AS INDICATED ON THE ROOM FINISH SCHEDULE.

D. PROVIDE 1/8" CLOSURE PLATE AT ALL EXPOSED ENDS OF TUBE STEEL (TS), TYPICAL.

COMPONENTS:

STRINGERS:

(1) TS 12x2x1/4" STRINGER, CLOSE OPEN ENDS W/ 1/8" STEEL PLATE.

LANDINGS:

(2) 3" CONC. FILL ON 12 GA. STEEL PAN.

LANDING SUPPORT:

(3) TS 8x2x1/4 EXTEND INTO MASONRY MIN. 4" AT EA. END AND WELD TO 1/2"x4"x8" STEEL PLATE. INSTALL STEEL PLATE TO CMU W/ (2) 1/2" DIA. x 8" L. ANCHOR W/ 2" HOOKS & GROUT CMU SOLID.

(4) PROVIDE S 3x 5.7's FOR ADDITIONAL SUPPORT.

TREADS:

(5) 2 1/2" CONC. FILL ON 12 GA. STEEL PAN.

TREAD / RISER PANS:

(6) 12 GA. STEEL PAN. PROVIDE PROFILE SHOWN ON DETAIL 9/A1.2.

TREAD / RISER PAN SUPPORTS:

(7) 1 1/2" x 1 1/2" x 1/8" STL. ANGLE WELD TO STRINGERS AS REQUIRED TO RECEIVE PANS.

STAIR AND LANDING RAILINGS:

(8A) 1 1/2" DIA. STANDARD STL. PIPE VERT. SUPPORTS. WELD TO CHANNEL OR TS @ 4'-0" O.C. MAX. (EQ. SPACING)

(8B) 1 1/2" DIA. STANDARD STL. PIPE RAIL, CONT.

(8C) 5/8" x 5/8" STL. CLIP ANGLE WELDED TO TS FRAME

(8D) 2" SQ. x 6 GA. WELDED WIRE MESH. WELD TO CLIP ANGLE FRAME

HANDRAIL:

(9) 1 1/2" DIA. STANDARD STEEL PIPE HANDRAIL W/ WALL BRACKETS. RETURN TO WALL AT ENDS AND CLOSE ENDS OF RAILING. INSTALL AT 3'-2" ABOVE NOSING. EXTEND 1'-0" HORIZONTALLY AT TOP AND (1) TREAD LENGTH DIAGONALLY AT THE BOTTOM.

(9) SIM. 1 1/2" DIA. STANDARD STEEL PIPE HANDRAIL FLOOR MOUNTED. RETURN TO FLOOR AT ENDS. PROVIDE VERTICAL POSTS @ 5'-0" O.C. MAX. CENTER POSTS IN STAIR TREADS. INSTALL AT 3'-2" ABOVE NOSING. EXTEND 1'-0" HORIZONTALLY AT TOP AND (1) TREAD LENGTH DIAGONALLY AT THE BOTTOM. CENTER IN STAIR

STAIR GUARD:

(10) TS 6" x 3" x 1/4" RAIL CLOSE ENDS W/ 1/8" STEEL PLATE.

(11) TS 6" x 3" x 1/4" SUPPORT AT 48" O.C. MAX.

(12) 4" x 3" x 1/4" ANGLE BOLT TO CONC SLAB W/ EXPANSION ANCHORS.

FINISHES:

FIELD PAINT ALL EXPOSED STEEL COMPONENTS WITH SPECIFIED COATING OVER SHOP APPLIED PRIMER. PROVIDE LANDING, TREAD AND NOSING FINISHES INDICATED ON ROOM FINISH SCHEDULE.

NEW WORK KEYNOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

1. LINE OF GYP. BD. SOFFIT, BULKHEAD OR CEILING EDGE ABOVE, REFER TO REFLECTED CEILING PLANS.
2. LINE OF LINTEL ABOVE, (PAINT BY OWNER). REFER TO REFLECTED CEILING PLAN.
3. EXTEND FLOOR FINISH AND BASE UNDER/BEHIND COOLER AND FREEZER.
4. DRINKING FOUNTAINS.
5. FURNISHINGS, N.I.C.
6. EXISTING TACKBOARD OR MARKERBOARD. PROTECT DURING CONST.
7. REINSTALL EXISTING CUBBIES.
8. PATCH AND REPAIR EXISTING SURFACES IN AREA OF DEMOLITION TO LIKE NEW CONDITION.
9. WASHER AND DRYER, N.I.C.
10. LINE OF CANOPY OR ROOF ABOVE. REFER TO ROOF PLAN.
11. MOP SINK.
12. HAND WASH SINK.
13. NEW 4'-0" HIGH MARKERBOARD (MB) OR TACKBOARD (TB). MOUNT BOTTOM @ 2'-0" A.F.F. REFER TO PLAN FOR WIDTH.
14. TRANSITION BETWEEN EXISTING AND NEW VCT.
15. NEW BRICK. REFER TO ELEVATIONS AND DETAIL 9/A6.1.
16. NEW H.M. FRAME ONLY. REFER TO A8.1.
17. INDUSTRIAL STAIR AND ROOF HATCH ABOVE. REFER TO DETAIL 2/A5.1.
18. STEEL COLUMN, PAINT WHERE EXPOSED. REFER TO DETAIL 5/A6.1 WHERE COLUMN IS ADJACENT TO WALL.
19. TYPICAL CLASSROOM CASEWORK. REFER TO 8/A2.1.
20. KNOX BOX. SAWCUT EXISTING MASONRY VENEER TO INSTALL.
21. STEEL COLUMN, REFER TO DETAIL 17/A8.2.
22. EMERGENCY EYEWASH STATION.
23. EXISTING CASEWORK. PROTECT DURING CONSTRUCTION.
24. WHERE STAIR ABOVE WAS REMOVED, PROVIDE 4" CMU INFILL UP TO BOTTOM OF 8" CMU ABOVE.
25. REINSTALL EXISTING BOOKCASE TO CONCEAL PIPING.
26. NO NEW ARCHITECTURAL WORK.
27. GYP. BD. ASSEMBLY AND SOFFIT ABOVE. REFER TO A7.1. PAINT ACCENT COLOR.
28. RAMP W/ RAISED RADIAL TILE. REFER TO 5/A1.2.
29. FLOOR FINISH TRANSITION. REFER TO A8.1.
30. NEW CMU INFILL. REFER TO DETAIL 6/A6.1.
31. MECHANICAL UNIT.
32. CUT EXISTING DOWNSPOUT 1'-0" ABOVE PLANTER BELOW. CONNECT NEW DOWNSPOUT AND ROUTE AROUND PLANTER. TIE INTO BOOT. CAP EXISTING DOWNSPOUT INSIDE PLANTER.
33. PROVIDE ACCENT PAINT AT WALL RECESS.
34. 12"x12" DOUBLE TIER LOCKERS. REFER TO SPECS. REFER TO BASE DETAIL 23/A6.1.
35. TRANSITIION FROM WALL TYPE A TO WALL TYPE B. REFER TO DETAIL 11/A6.1.
36. REMOVE EXISTING LOUVERS AT FIRST FLOOR CLASSROOMS, INFILL OPENINGS, AND PROVIDE NEW CONTINOUS FLASHING. REFER TO 15/A6.1.
37. PROVIDE EXTERIOR THRESHOLD. REFER TO A8.1.
38. TEACHERS WARDROBE LOCATION. REFER TO 8/A2.1

GENERAL NEW WORK NOTES

A. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC ITEMS NOT SHOWN ON THIS SHEET.

B. REFER TO ROOF PLAN AND MECH DRAWINGS FOR ADDITIONAL INFORMATION REGARDING WORK AT ROOF.

C. REFER TO SHEET A0.1 FOR GENERAL NOTES.

SYMBOLS LEGEND

NAME # RFG — ROOM FINISH GROUPS (REFER TO SHEET A0.1)
ROOM NUMBER
(#) DOOR NUMBER (DOOR SCHEDULE, SHEET A8.1)
* ASTERISK DENOTES DOORS IN ALT. NO. 4
NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.1)
WALL TYPE (SCHEDULE, SHEET A0.1)
PUNCHED OPENING (FRAME TYPES, SHEET A8.1)
TOILET ACCESSORIES (SCHEDULE, SHEET A2.1)
CEILING PLAN KEY NOTE (SHEET A7.1)
SIGNAGE KEY NOTE (SHEET A0.1)
FE — NEW SURFACE MTD. FIRE EXTINGUISHER
EFE — EXISTING FIRE EXTINGUISHER TO REMAIN
FEC — NEW FIRE EXTINGUISHER CABINET
SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN
EFR2 — EXISTING 2 HOUR FIRE RESISTANT PARTITION (KDE REQUIREMENT)

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

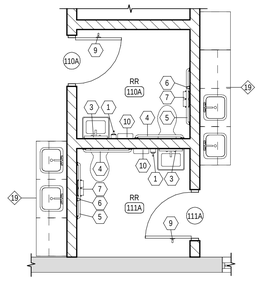
SECOND FLOOR NEW WORK PLAN, STAIR AND RAMP PLANS AND DETAILS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

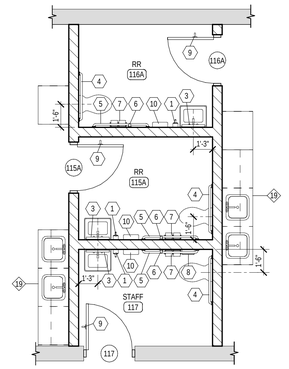
REVISIONS

No.	Description	Date

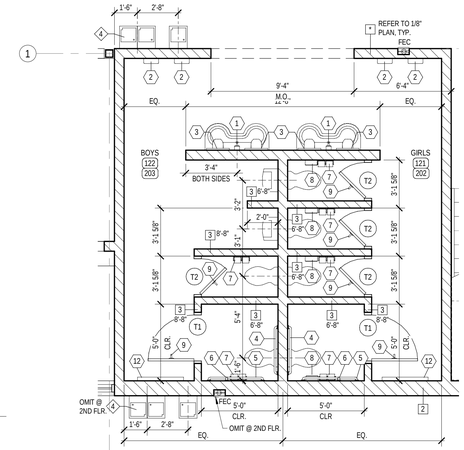
SHEET
A1.2



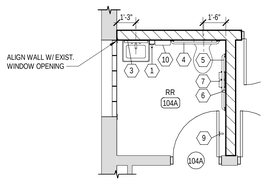
9 ENLARGED RESTROOM PLAN
1/4" = 1'-0"
REFER TO 1/A1.1 FOR ROOM DIMENSIONS



5 ENLARGED RESTROOM PLAN
1/4" = 1'-0"
REFER TO 1/A1.1 FOR ROOM DIMENSIONS



1 ENLARGED RESTROOM PLAN
1/4" = 1'-0"



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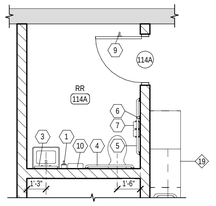
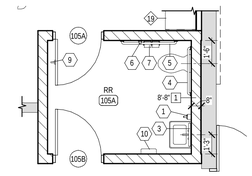
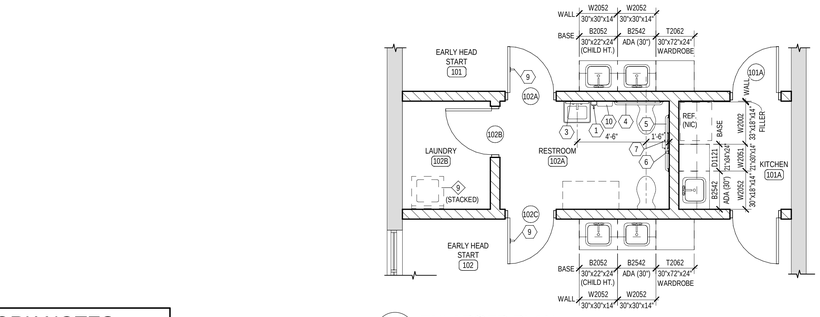
1/4" = 1'-0"



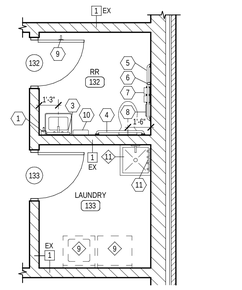
6 ENLARGED RESTROOM PLAN
1/4" = 1'-0"
REFER TO 1/A1.1 FOR ROOM DIMENSIONS



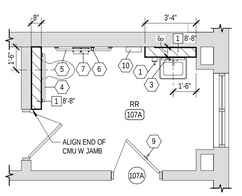
2 ENLARGED RESTROOM PLAN
1/4" = 1'-0"
REFER TO 1/A1.1 FOR ROOM DIMENSIONS



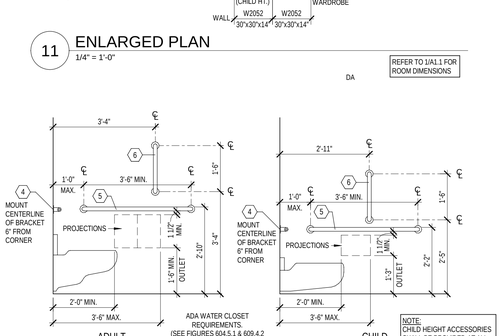
11 ENLARGED PLAN
1/4" = 1'-0"
REFER TO 1/A1.1 FOR ROOM DIMENSIONS



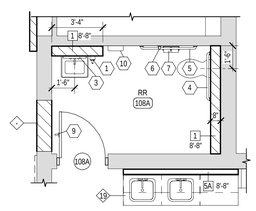
7 ENLARGED RESTROOM PLAN
1/4" = 1'-0"
REFER TO 1/A1.1 FOR ROOM DIMENSIONS



3 ENLARGED RESTROOM PLAN
1/4" = 1'-0"



12 GRAB BAR/ACCESSORIES LAYOUT
1/2" = 1'-0"



4 ENLARGED RESTROOM PLAN
1/4" = 1'-0"

TOILET COMPARTMENT DOOR SCHEDULE

NO.	NO. LEAVES	LEAF WIDTH	DOOR HEIGHT	DOOR MATL.	DOOR TYPE	FRAME MATL.	FRAME TYPE	HEAD	JAMB	
T1	1	3'-0"	4'-6"	H.M.	T	H.M.	T	TC4/A2.1	TC5/A2.1	PROVIDE: FLUSH TOP CAP, CUSTOM LOCATIONS FOR DOOR SILENCERS, GALV. H.M. DOOR AND FRAME (PRIME AND PAINT)
T2	1	2'-6"	4'-6"	H.M.	T	H.M.	T	TC4/A2.1	TC6/A2.1	

TOILET ACCESSORY SCHEDULE

REFER TO TYP. GRAB BAR AND ACCESSORIES LAYOUT (THIS SHEET)

	ACCESSORY	MTG. HT.	MFR./MODEL #
1	S.S. SOAP DISPENSER	40" TO VALVE (32" @ CHILD HT.)	VERDE® (SURFACE MTD.) BY WORLD DRYER OR EQ.
2	PUSH BUTTON ELECTRIC HAND DRYER	40" TO BUTTON CENTERLINE	REFER TO ELECTRICAL DRAWINGS
3	MIRROR W/ S.S. FRAME - 18"x36"	40" TO BOTTOM (32" @ CHILD HT.)	ASI 0600
4	36" S.S. GRAB BAR (1-1/4")	REFER TO GRAB BAR LAYOUT 12/A2.1	ASI 3100 SERIES
5	42" S.S. GRAB BAR (1-1/4")	REFER TO GRAB BAR LAYOUT 12/A2.1	ASI 3100 SERIES
6	18" VERTICAL S.S. GRAB BAR (1-1/4")	REFER TO GRAB BAR LAYOUT 12/A2.1	ASI 3100 SERIES
7	TOILET PAPER DISPENSER	REFER TO GRAB BAR LAYOUT 12/A2.1	N.I.C., OWNER FURNISHED, CONTRACTOR INSTALLED
8	SANITARY NAPKIN DISPOSAL	24" TO TOP	N.I.C., OWNER FURNISHED, CONTRACTOR INSTALLED
9	CLOTHES HOOK AND BUMPER(SURFACE MOUNTED)	48" TO CENTER (40" @ CHILD HT.)	ASI 0714
10	PAPER TOWEL DISPENSER (SURFACE MOUNTED)	44" TO SLOT (36" @ CHILD HT.) 4" MAX PROJECTION	N.I.C., OWNER FURNISHED, CONTRACTOR INSTALLED
11	MOP AND BROOM HOLDER	60" TO TOP OF SHELF	
12	CHANGING TABLE	33" MAX. TO OPEN POSITION	-----

GENERAL TOILET ACCESSORY NOTES:

1. PROVIDE SOLID WD. BLKG. AS REQ'D FOR SUPPORT OF ACCESSORIES IN MTL. STUD PARTITIONS.
2. MODEL NUMBERS DENOTE TOILET ACCESSORIES OFFERED BY ASI AND REPRESENT THE LEVEL OF QUALITY REQ'D.
3. ALL ITEMS SHALL BE LOCATED HORIZONTALLY AND MTD. TO SPECIFIC POINTS A.F.F. IN ACCORDANCE W/ ALL APPLICABLE REQUIREMENTS OF "AMERICANS WITH DISABILITIES ACT" (A.D.A.) AND ANSI A117.1-2009.
   A. INSTALL TO ALLOW 1-1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
4. REFER TO MECH., PLBG., AND ELEC. DWGS AND SPECS. FOR PLBG. FIXTURES AND CONTROLS. ALL EXPOSED PIPING @ ADA LAV'S. SHALL BE INSULATED AND COVERED WITH RIGID JACKET.
5. REFER TO ALL FLOOR PLAN SHEETS FOR ACCESSORIES REQUIRED AT OTHER LOCATIONS.

CASEWORK NOTES

TYPICAL CASEWORK MODEL NUMBERS SHOWN ARE TMI SYSTEMS DESIGN CORP. (PHONE NO. 1-800-456-6716) AND REPRESENT THE LEVEL OF QUALITY REQUIRED AND SHALL BE USED AS THE BASIS FOR EQUAL PRODUCTS. HEIGHT INDICATED IS TO TOP OF COUNTERTOP.

XXXXX — TMI MODEL #
WxHxD — WIDTHxHEIGHT (T.O. COUNTERTOP) xDEPTH

A MOUNT ALL BASE AND WALL CASEWORK PER ADA GUIDELINES AND ANSI A117.1-2009.

B MOUNT TOP OF UPPER WALL CABINETS @ 7'-0" A.F.F., U.N.O.

C PLASTIC LAMINATE COUNTERTOPS SHALL BE PROVIDED AT ALL CASEWORK .

D PROVIDE FINISHED END PANELS AT ALL EXPOSED LOCATIONS.

E PROVIDE 4" BACK AND SIDE SPLASH AT ALL WALL LOCATIONS.

F PROVIDE INFILL PANELS AS REQUIRED TO CONCEAL VOIDS @ ALL BASE CABINETS.

G ALL WALL AND BASE CABINETS SHALL HAVE LOCKS ON DOORS AND DRAWERS. PROVIDE ONE KEY SYSTEM PER ROOM AND ONE MASTER KEY.

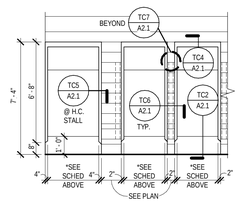
H PROVIDE WOOD BLOCKING AS REQUIRED TO SUPPORT COUNTERTOP. COORDINATE W/ UNDER COUNTER EQUIPMENT.

J PROVIDE CONTINUOUS WOOD BLOCKING @ METAL STUD WALL LOCATIONS FOR MOUNTING OF CASEWORK.

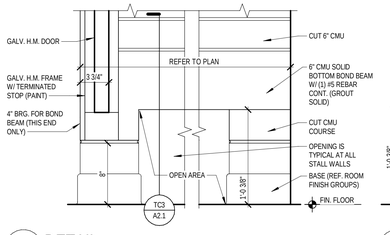
K PLUMBING PIPES TO RUN BELOW CASEWORK AS SHOWN ON MECH. DWGS.

8 TYP. CLASSROOM CASEWORK PLAN
1/4" = 1'-0"

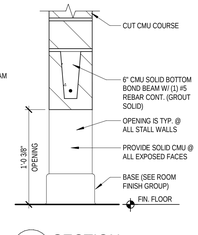
TOILET COMPARTMENT DETAILS (TC)



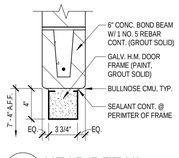
TC1 PARTIAL ELEVATION
1/4"=1'-0" *SCHEDULE LOCATED ON SHEET A8.1
**REFER TO FLOOR PLANS FOR STALL LAYOUT AND QUANTITY



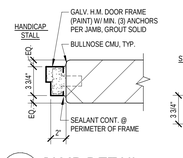
TC2 DETAIL
1 1/2" = 1'-0"



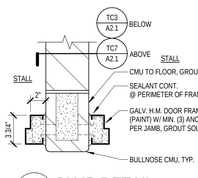
TC3 SECTION
1 1/2" = 1'-0"



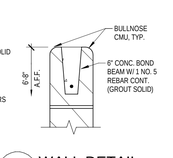
TC4 HEAD DETAIL
1 1/2" = 1'-0"



TC5 JAMB DETAIL
1 1/2" = 1'-0"



TC6 JAMB DETAIL
1 1/2" = 1'-0"



TC7 WALL DETAIL
1 1/2" = 1'-0"

NEW WORK KEYNOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

1. LINE OF GYP. BD. SOFFIT, BULKHEAD OR CEILING EDGE ABOVE, REFER TO REFLECTED CEILING PLANS.
2. LINE OF LINTEL ABOVE, (PAINT BY OWNER). REFER TO REFLECTED CEILING PLAN.
3. EXTEND FLOOR FINISH AND BASE UNDER/BEHIND COOLER AND FREEZER.
4. DRINKING FOUNTAINS.
5. FURNISHINGS, N.I.C.
6. EXISTING TACKBOARD OR MARKERBOARD. PROTECT DURING CONST.
7. REINSTALL EXISTING CUBBIES.
8. PATCH AND REPAIR EXISTING SURFACES IN AREA OF DEMOLITION TO LIKE NEW CONDITION.
9. WASHER AND DRYER, N.I.C.
10. LINE OF CANOPY OR ROOF ABOVE. REFER TO ROOF PLAN.
11. MOP SINK.
12. HAND WASH SINK.
13. NEW 4'-0" HIGH MARKERBOARD (MB) OR TACKBOARD (TB). MOUNT BOTTOM @ 2'-0" A.F.F. REFER TO PLAN FOR WIDTH.
14. TRANSITION BETWEEN EXISTING AND NEW VCT.
15. NEW BRICK. REFER TO ELEVATIONS AND DETAIL 9/A6.1.
16. NEW H.M. FRAME ONLY. REFER TO A8.1.
17. INDUSTRIAL STAIR AND ROOF HATCH ABOVE. REFER TO DETAIL 2/A5.1.
18. STEEL COLUMN, PAINT WHERE EXPOSED. REFER TO DETAIL 5/A6.1 WHERE COLUMN IS ADJACENT TO WALL.
19. TYPICAL CLASSROOM CASEWORK. REFER TO 8/A2.1.
20. KNOX BOX. SAWCUT EXISTING MASONRY VENEER TO INSTALL.
21. STEEL COLUMN, REFER TO DETAIL 17/A8.2.
22. EMERGENCY EYEWASH STATION.
23. EXISTING CASEWORK. PROTECT DURING CONSTRUCTION.
24. WHERE STAIR ABOVE WAS REMOVED, PROVIDE 4" CMU INFILL UP TO BOTTOM OF 8" CMU ABOVE.
25. REINSTALL EXISTING BOOKCASE TO CONCEAL PIPING.
26. NO NEW ARCHITECTURAL WORK.
27. GYP. BD. ASSEMBLY AND SOFFIT ABOVE. REFER TO A7.1. PAINT ACCENT COLOR.
28. RAMP W/ RAISED RADIAL TILE. REFER TO 5/A1.2.
29. FLOOR FINISH TRANSITION. REFER TO A8.1.
30. NEW CMU INFILL. REFER TO DETAIL 6/A6.1.
31. MECHANICAL UNIT.
32. CUT EXISTING DOWNSPOUT 1'-0" ABOVE PLANTER BELOW. CONNECT NEW DOWNSPOUT AND ROUTE AROUND PLANTER. TIE INTO BOOT. CAP EXISTING DOWNSPOUT INSIDE PLANTER.
33. PROVIDE ACCENT PAINT AT WALL RECESS.
34. 12"x12" DOUBLE TIER LOCKERS. REFER TO SPECS. REFER TO BASE DETAIL 23/A6.1.
35. TRANSITION FROM WALL TYPE A TO WALL TYPE B. REFER TO DETAIL 11/A6.1.
36. REMOVE EXISTING LOUVERS AT FIRST FLOOR CLASSROOMS, INFILL OPENINGS, AND PROVIDE NEW CONTINOUS FLASHING. REFER TO 15/A6.1.
37. PROVIDE EXTERIOR THRESHOLD. REFER TO A8.1.
38. TEACHERS WARDROBE LOCATION. REFER TO 8/A2.1.

GENERAL NEW WORK NOTES

A. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC ITEMS NOT SHOWN ON THIS SHEET.

B. REFER TO ROOF PLAN AND MECH DRAWINGS FOR ADDITIONAL INFORMATION REGARDING WORK AT ROOF.

C. REFER TO SHEET A0.1 FOR GENERAL NOTES.

SYMBOLS LEGEND

- NAME / # — ROOM FINISH GROUPS (REFER TO SHEET A0.1) / ROOM NUMBER
- # — DOOR NUMBER (DOOR SCHEDULE, SHEET A8.1) * ASTERISK DENOTES DOORS IN ALT. NO. 4
- X — NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.1)
- X — WALL TYPE (SCHEDULE, SHEET A0.1)
- X — PUNCHED OPENING (FRAME TYPES, SHEET A8.1)
- X — TOILET ACCESSORIES (SCHEDULE, SHEET A2.1)
- X — CEILING PLAN KEY NOTE (SHEET A7.1)
- X — SIGNAGE KEY NOTE (SHEET A0.1)
- FE — NEW SURFACE MTD. FIRE EXTINGUISHER
- EFE — EXISTING FIRE EXTINGUISHER TO REMAIN
- FEC — NEW FIRE EXTINGUISHER CABINET
- SHADING INDICATES EXISTING CONSTRUCTION TO REMAIN
- EFRC — EXISTING 2 HOUR FIRE RESISTANT PARTITION (KDE REQUIREMENT)

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

ENLARGED PLANS AND DETAILS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

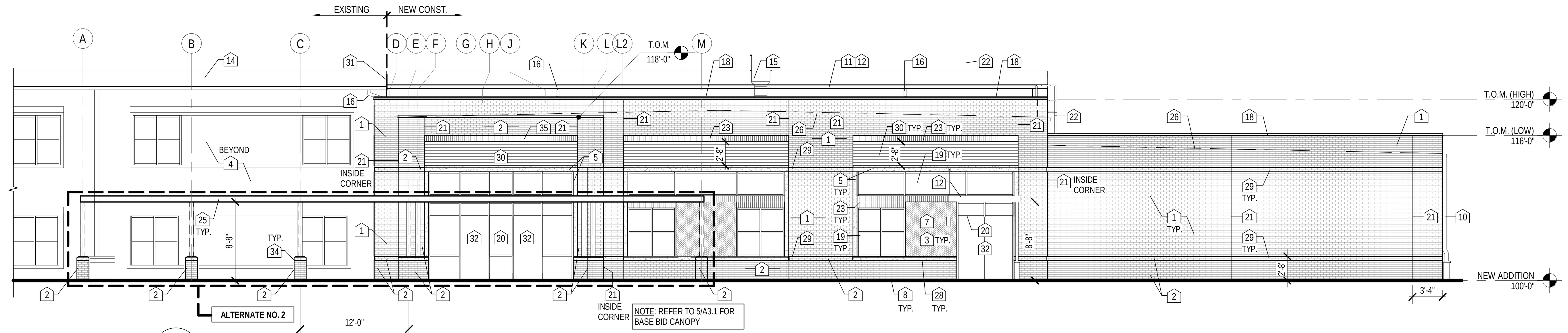
REVISIONS

No.	Description	Date

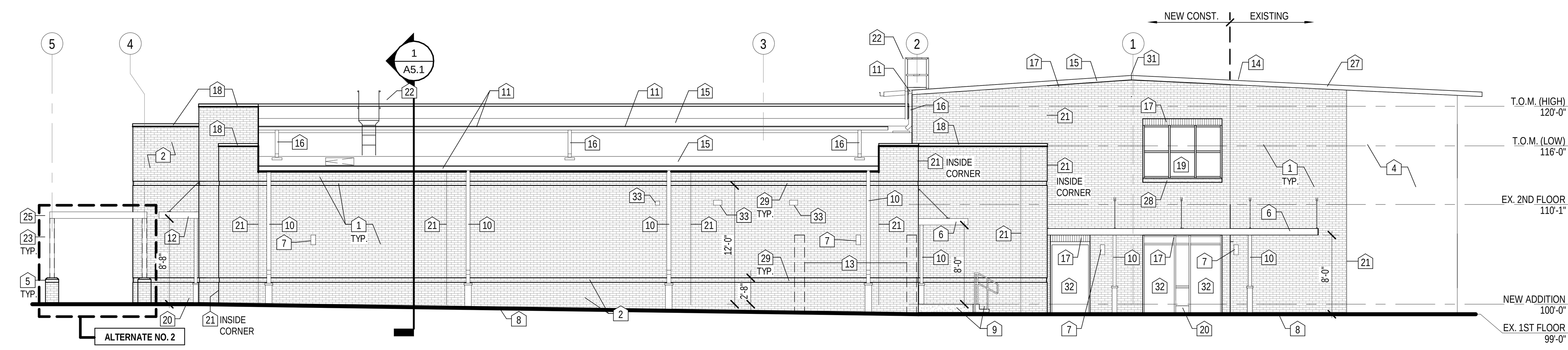
SHEET

A2.1

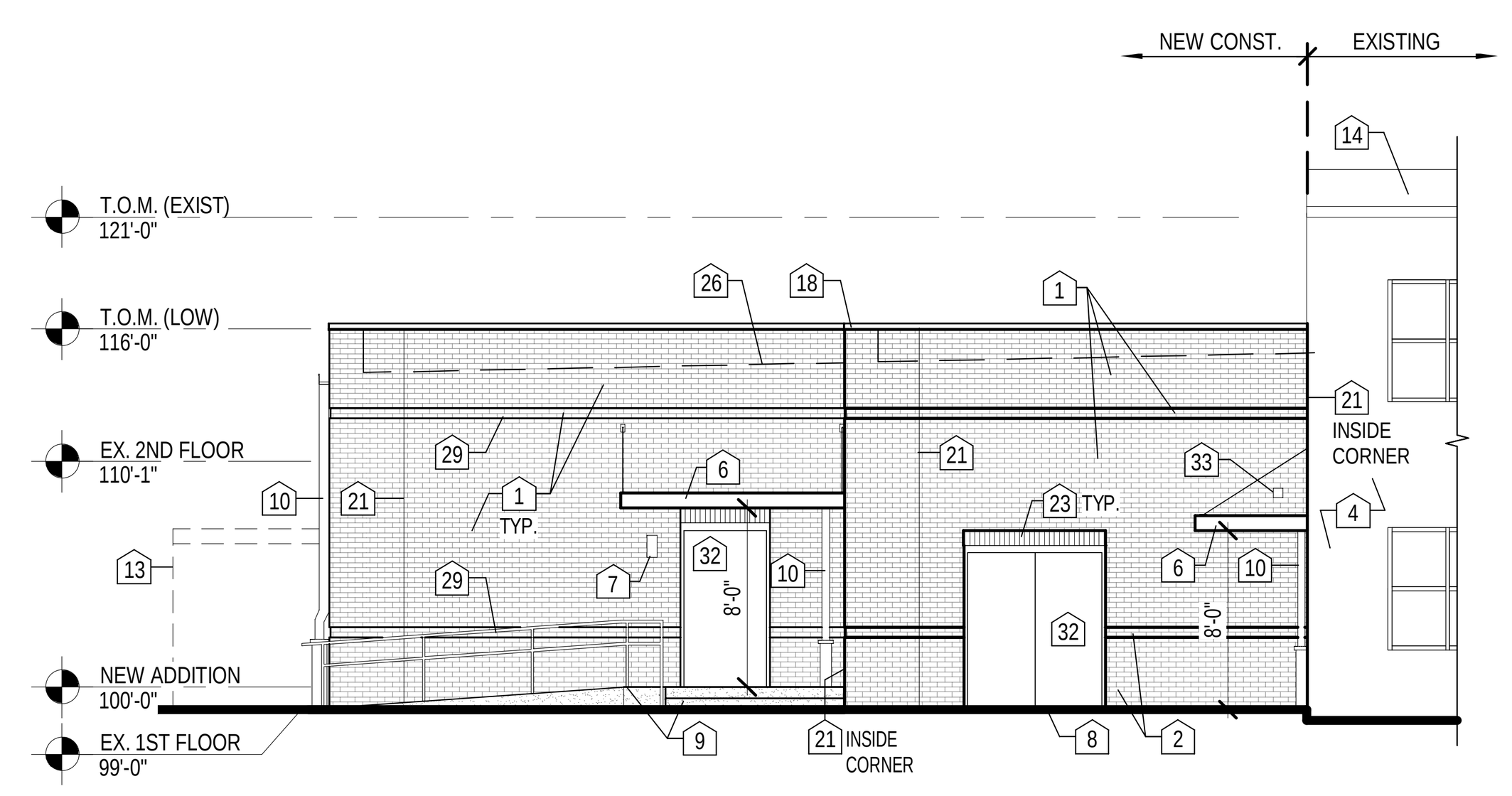
1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:48:36 AM



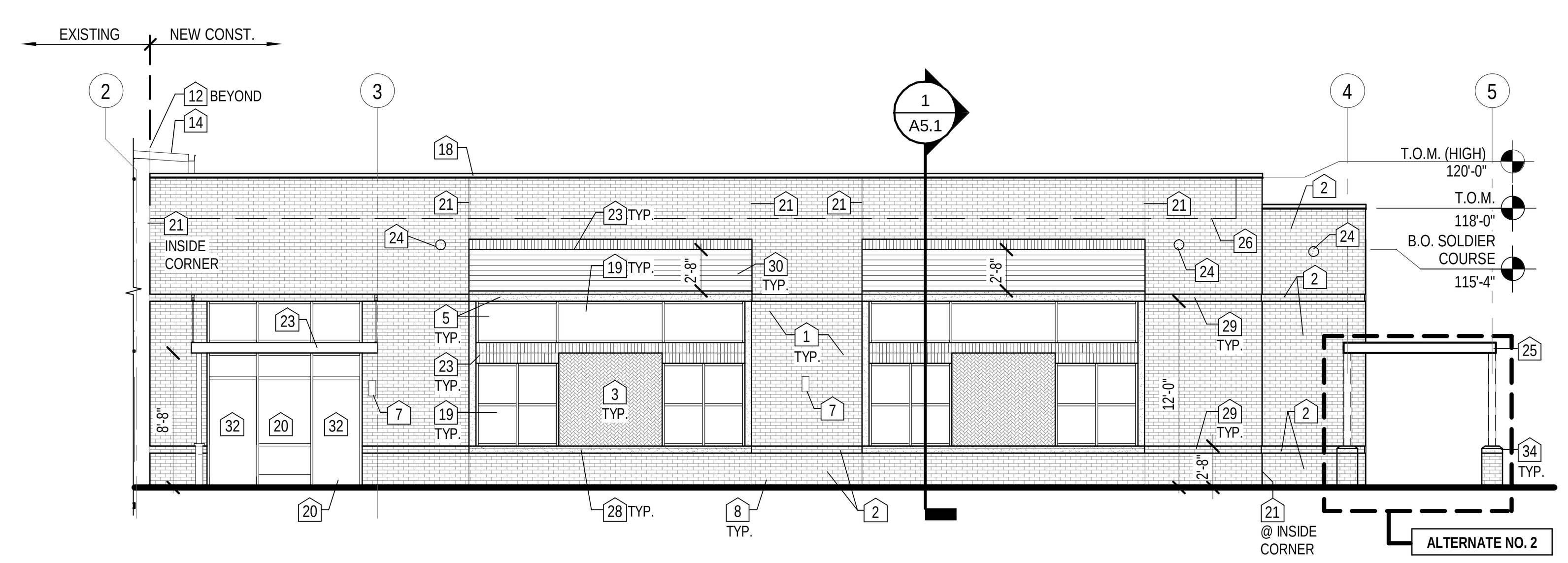
1 SOUTH ELEVATION
1/8" = 1'-0"



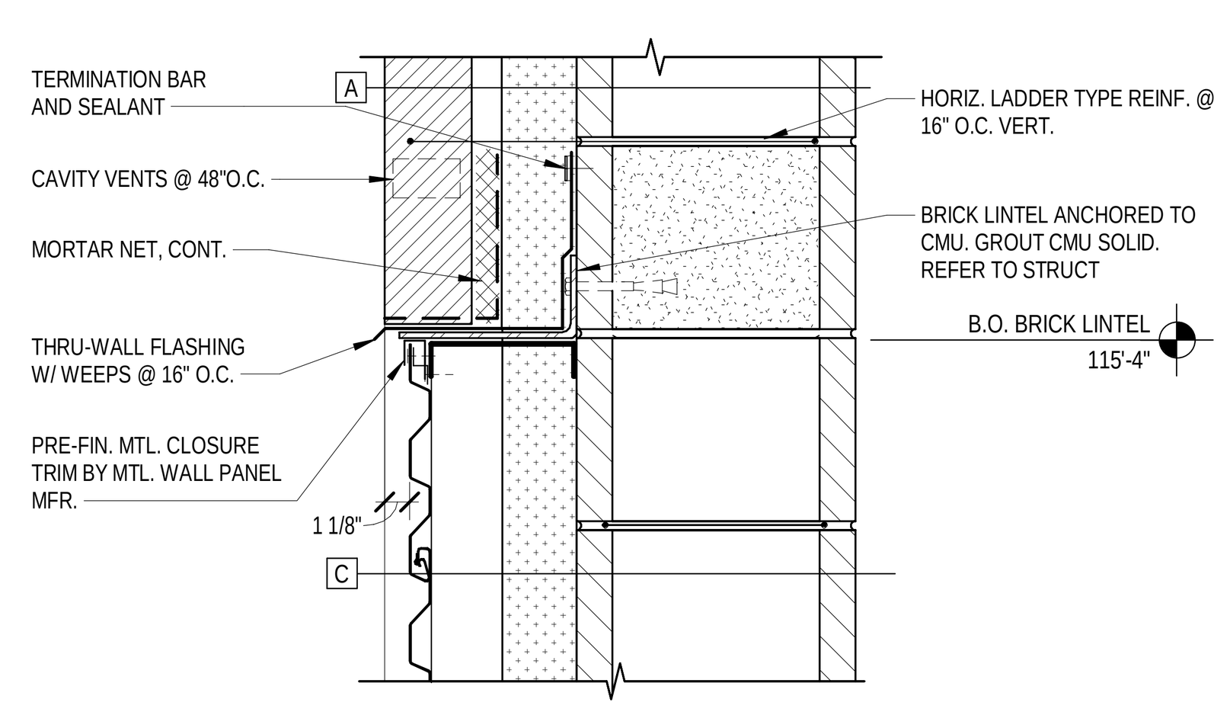
2 EAST ELEVATION
1/8" = 1'-0"



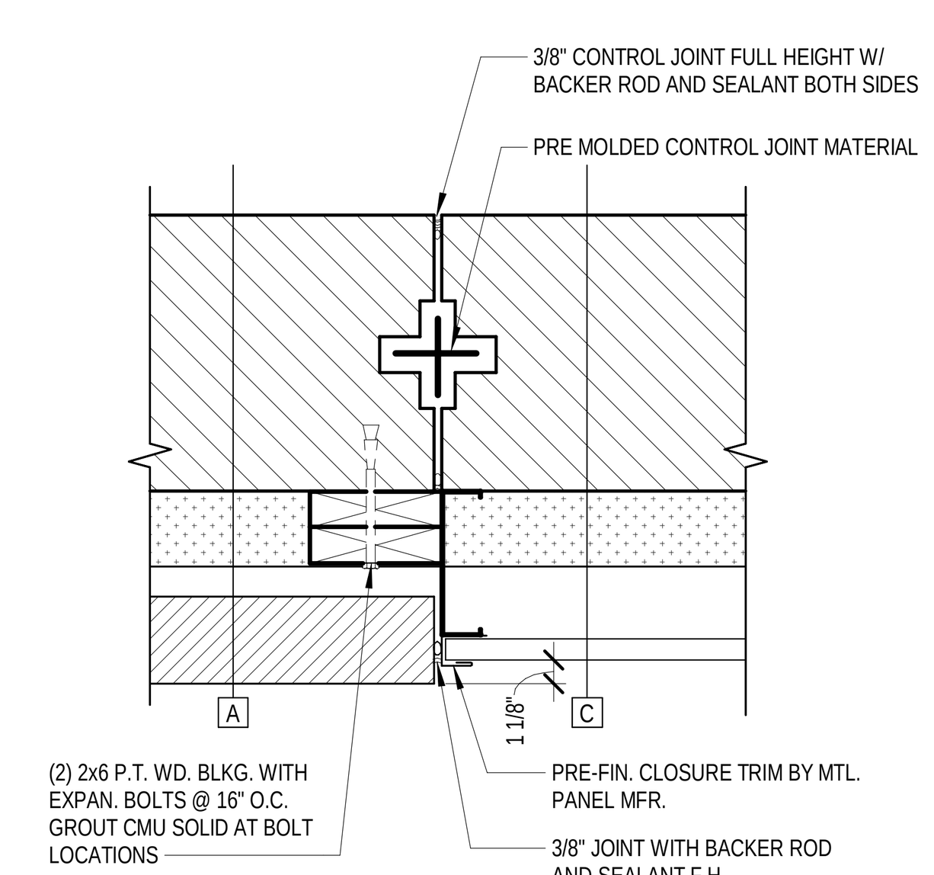
4 NORTH ELEVATION
1/8" = 1'-0"



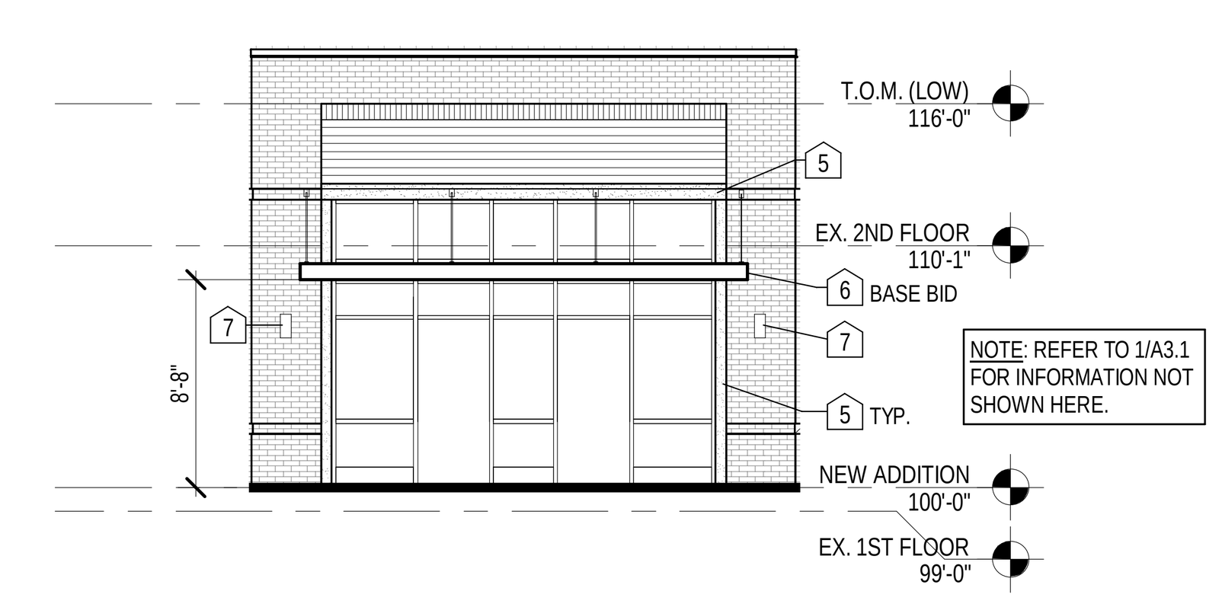
3 WEST ELEVATION
1/8" = 1'-0"



7 METAL WALL PANEL HEAD DETAIL
1 1/2" = 1'-0"



6 METAL WALL PANEL JAMB DETAIL
1 1/2" = 1'-0"



5 PARTIAL SOUTH ELEVATION (BASE BID CANOPY)
1/8" = 1'-0"

GENERAL ELEVATION NOTES

BUILDING ELEVATIONS SHOWN ON THIS DRAWING ARE INTENDED FOR GENERAL REFERENCE PURPOSES ONLY. REFER TO REFERENCED SECTIONS AND DETAILS FOR MORE FULLY DESCRIBED CONDITIONS AND REQUIREMENTS.

A. MATERIALS INDICATIONS AND DESCRIPTIONS, VERTICAL AND OTHER DIMENSIONSSHOWN ON ONE BUILDING ELEVATION APPLY TO OTHER BUILDING ELEVATIONS WHERE SHOWN UNLESS NOTED OTHERWISE.

B. LINES REPRESENTING PAVING AND FINISH GRADES ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO SITE PLANS FOR SPECIFIC GRADE AND SPOT ELEVATIONS AT EACH RESPECTIVELY.

C. REFER TO FLOOR PLANS FOR LOCATION AND DOOR SCHEDULE FOR FULL EXTENT AND COMPLETE DESCRIPTION OF DOOR AND FRAME TYPES. PORTIONS OF DOORS, WINDOWS STOREFRONTS, AND CURTAIN WALLS MAY BE CONCEALED BY OTHER BUILDING FEATURES SHOWN.

D. REFER TO FLOOR PLANS FOR SPECIFIC ALUMINUM STORE FRONT TYPES AND CURTAIN WALL ELEVATIONS.

E. LOCATIONS OF CONTROL/EXPANSION JOINTS IN MASONRY WALLS ARE SHOWN ON THIS DRAWING. SEE TYPICAL DETAILS ON SHEET A6.1 FOR SPECIFIC REQUIREMENTS AT RESPECTIVE LOCATIONS.

F. ALL EXPOSED EXTERIOR MASONRY SHALL RECEIVE APPLICATION OF SPECIFIED WATER REPELLENT.

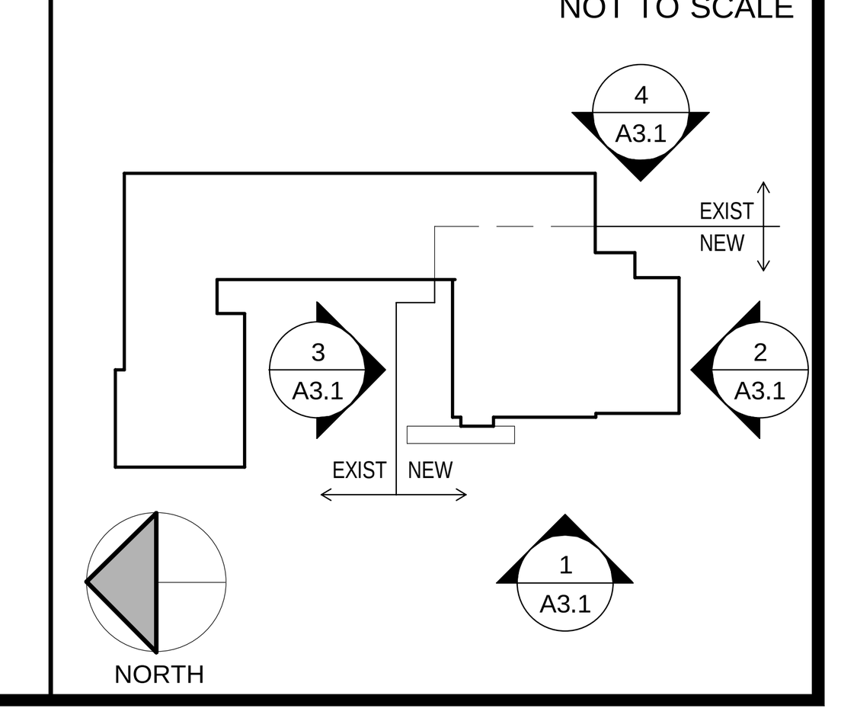
G. ALL EXPOSED EXTERIOR METAL SUCH AS FLASHINGS, COPINGS, GUTTERS DOWNSPOUTS AND LADDERS SHALL RECEIVE THE SPECIFIED FIELD OR SHOP APPLIED FINISH COATING.

X ELEVATION KEY NOTES

1. FIELD BRICK (TYPE 'A').
2. FIELD BRICK (TYPE 'B').
3. BRICK IN HERRINGBONE PATTERN (TYPE 'A').
4. EXISTING CONSTRUCTION TO REMAIN.
5. PRE-CAST CONC. TRIM. REFER TO WINDOW DETAILS.
6. PRE-ENG. WALL HUNG CANOPY W/ INTEGRAL DS. TIE TO BOOT. REFER TO ROOF PLAN
7. WALL MOUNTED LIGHT FIXTURE. B.O. LIGHT AT 6'-0" A.F.F. U.N.O. REFER TO ELECTRICAL DWGS.
8. FINISH GRADE VARIES. REFER TO SITE DWGS.
9. EXTERIOR RAMP/STAIR W/ GUARDRAIL. REFER TO SITE DWGS.
10. DOWNSPOUT. TIE INTO BOOT, REFER TO ROOF PLAN AND SITE PLAN.
11. GUTTER. REFER TO DETAIL ON SHEET 6/A4.1.
12. PRE-ENG. CANTILEVERED CANOPY. SPLASH TO GRADE. REFER TO ROOF PLAN.
13. DUMPSTER WALL. REFER TO SITE DWGS.
14. EXISTING ROOF TO REMAIN.
15. NEW ROOF. REFER TO ROOF PLAN ON SHEET A4.1.
16. DOWNSPOUT TO SPLASH BLOCK ONTO ROOF BELOW.
17. BRICK SOLDIER COURSE TYPE 'A'.
18. COPING. REFER TO DETAIL 2/A4.1.
19. WINDOW. REFER TO SHEET A8.1.
20. CURTAINWALL SYSTEM. REFER TO SHEET A8.1.
21. CONTROL JOINT. REFER TO DETAIL 4/A6.1 U.N.O.
22. ROOF LADDER PER OSHA STANDARDS.
23. BRICK SOLDIER COURSE (TYPE 'A').
24. OVERFLOW ROOF DRAIN.
25. PRE-FIN. ALUM. WALKWAY COVER W/ INTEGRAL D.S. (ALT. NO 2). REFER TO ROOF PLAN AND DETAILS ON SHEET A5.1.
26. ROOF LINE BEYOND.
27. NEW RAKE ON EXISTING ROOF. REFER TO ROOF PLAN ON A4.1.
28. PRE-CAST CONC. SILL. REFER TO WINDOW DETAILS.
29. REVEAL - 1/2" DEEP X 2 BRICK COURSES TALL
30. METAL WALL PANEL (WALL TYPE 'C'). REFER TO WINDOW DETAILS ON A8.2 AND DETAILS 6 AND 7/A3.1.
31. TRANSITION FROM EXISTING ROOF TO NEW ROOF. REFER TO ROOF PLAN.
32. DOOR. REFER TO PLANS A1.1 AND DOOR SCHEDULE A8.1.
33. MECH. VENT. REFER TO MECH. DWGS.
34. PRE-CAST CONC. CAP. REFER TO DETAILS ON A5.1.
35. BRICK SOLDIER COURSE (TYPE 'B')

KEY PLAN

NOT TO SCALE



SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

BUILDING ELEVATIONS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

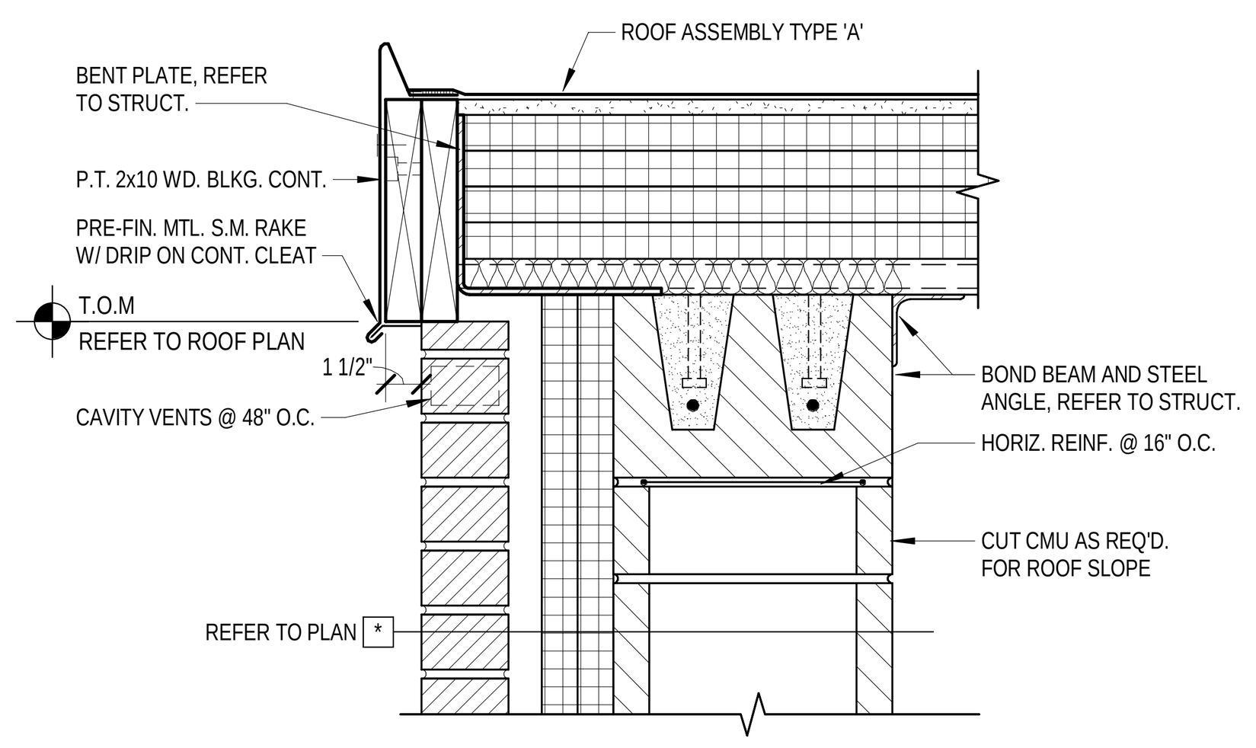
REVISIONS

No.	Description	Date

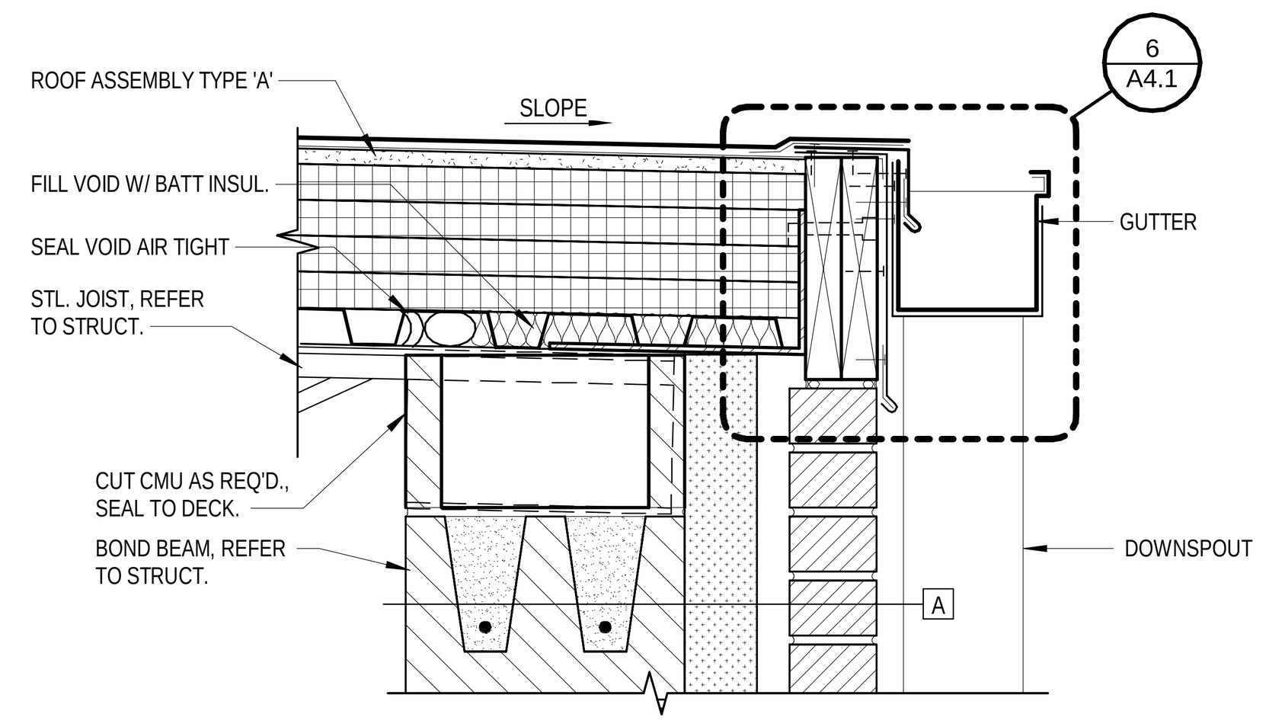
SHEET

A3.1

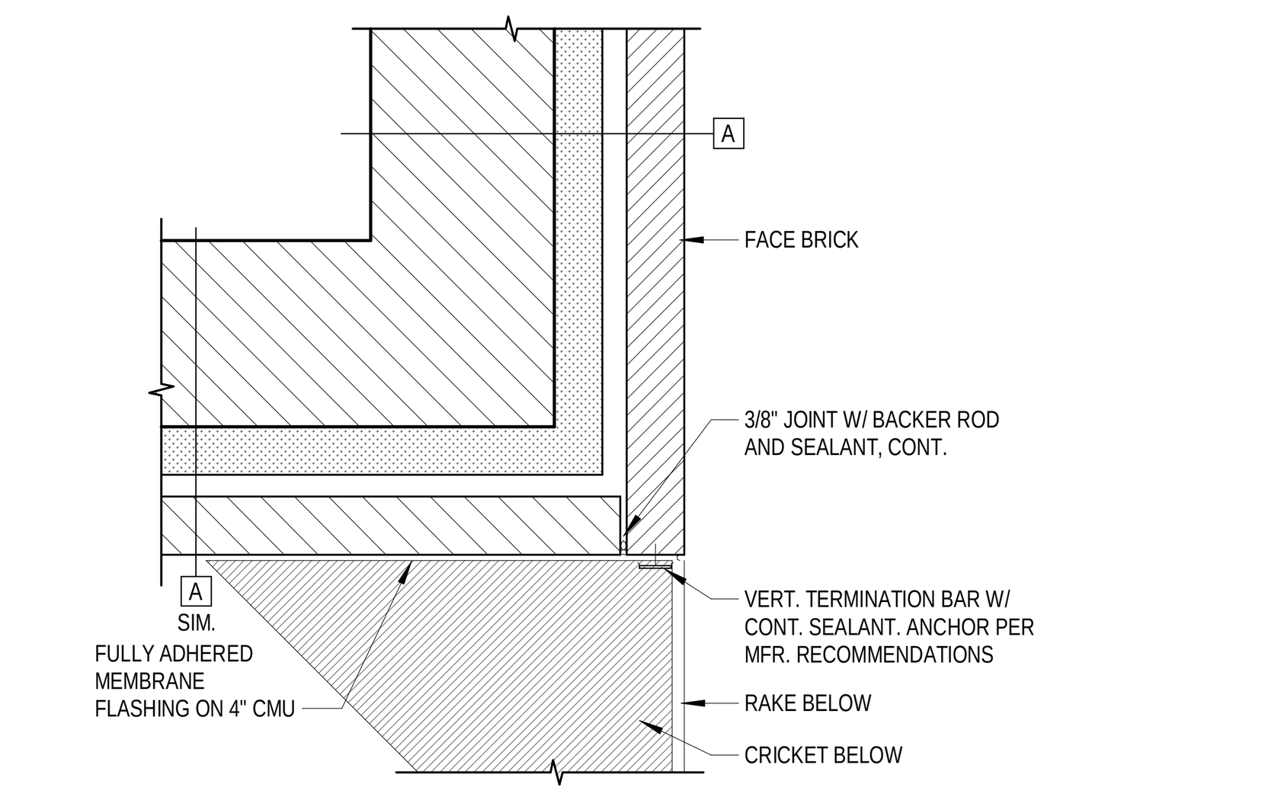
1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:48:42 AM



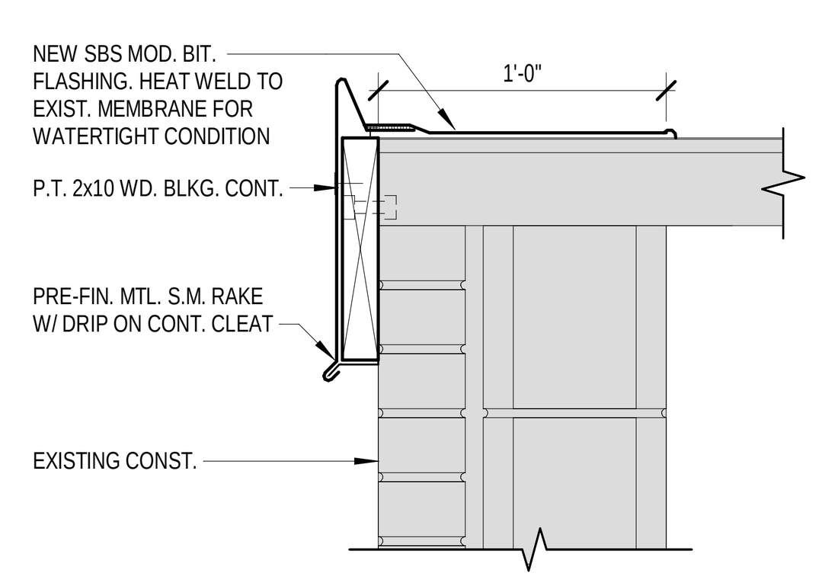
11 ROOF DETAIL
1 1/2" = 1'-0"



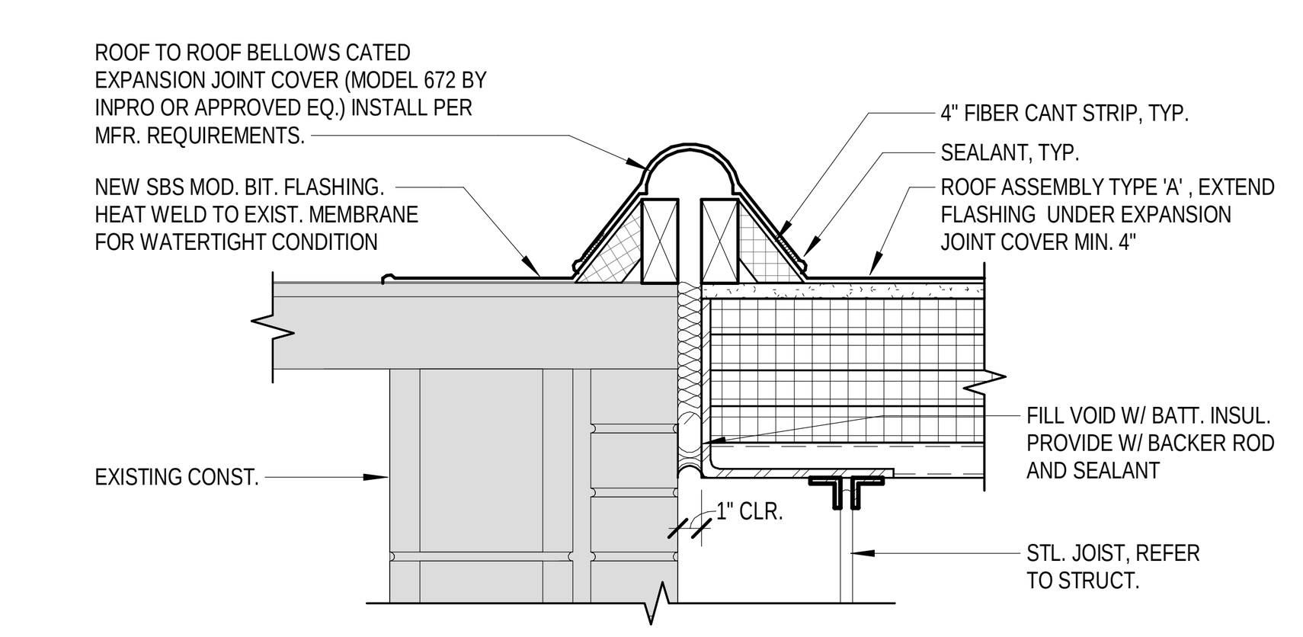
12 ROOF DETAIL
1 1/2" = 1'-0"



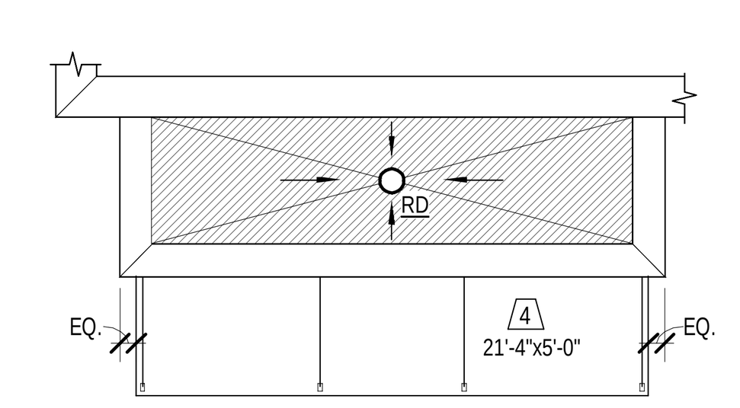
13 DETAIL
1" = 1'-0"



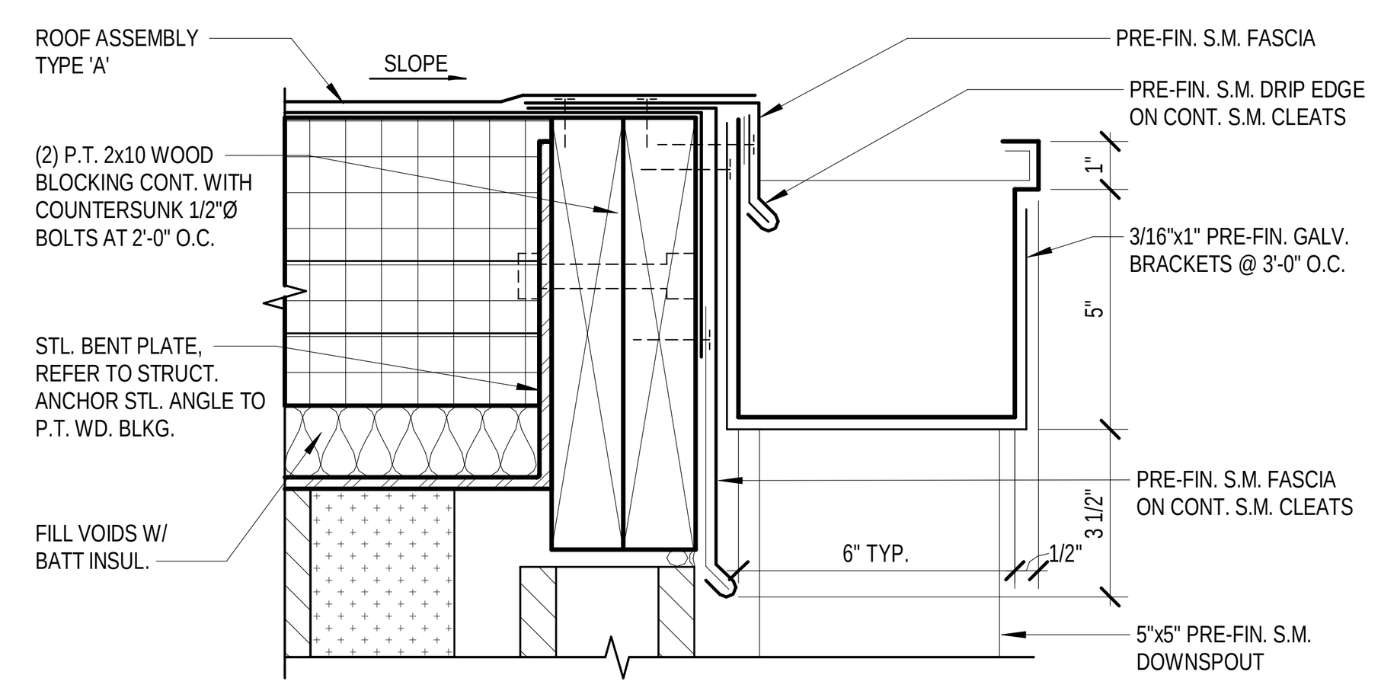
14 ROOF DETAIL
1 1/2" = 1'-0"



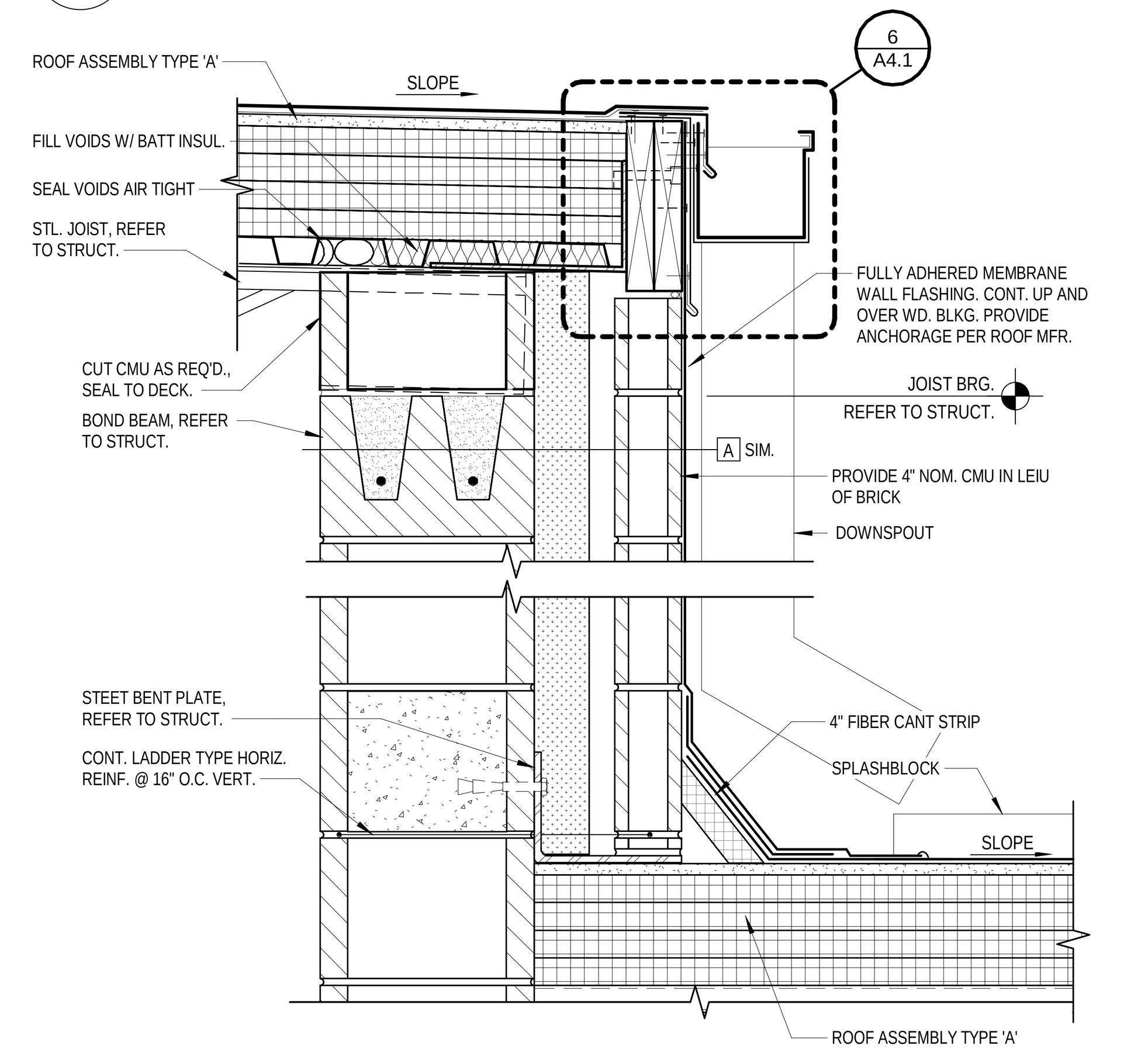
15 ROOF DETAIL
1 1/2" = 1'-0"



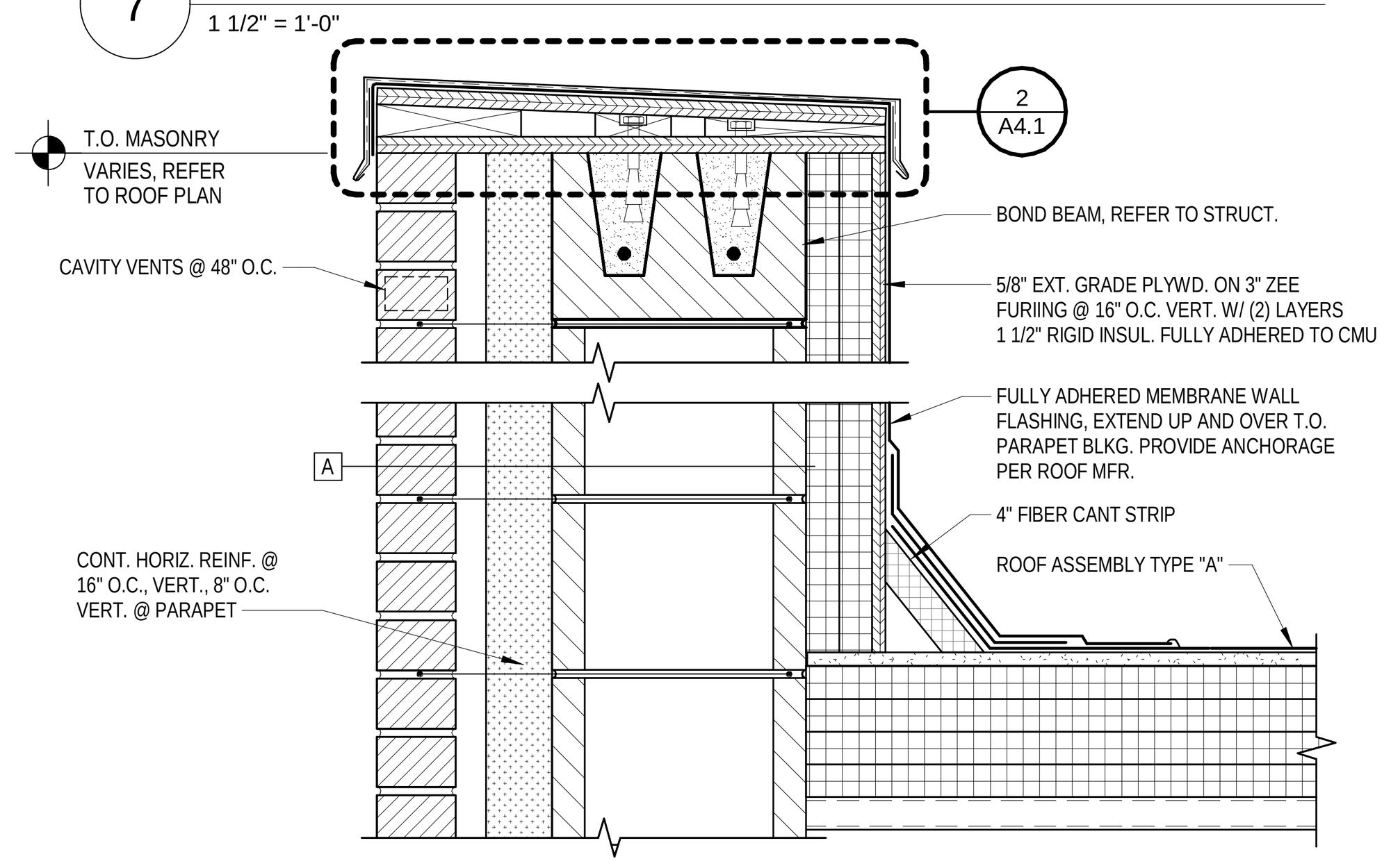
16 PARTIAL ROOF PLAN (BASE BID CANOPY)
1/8" = 1'-0"



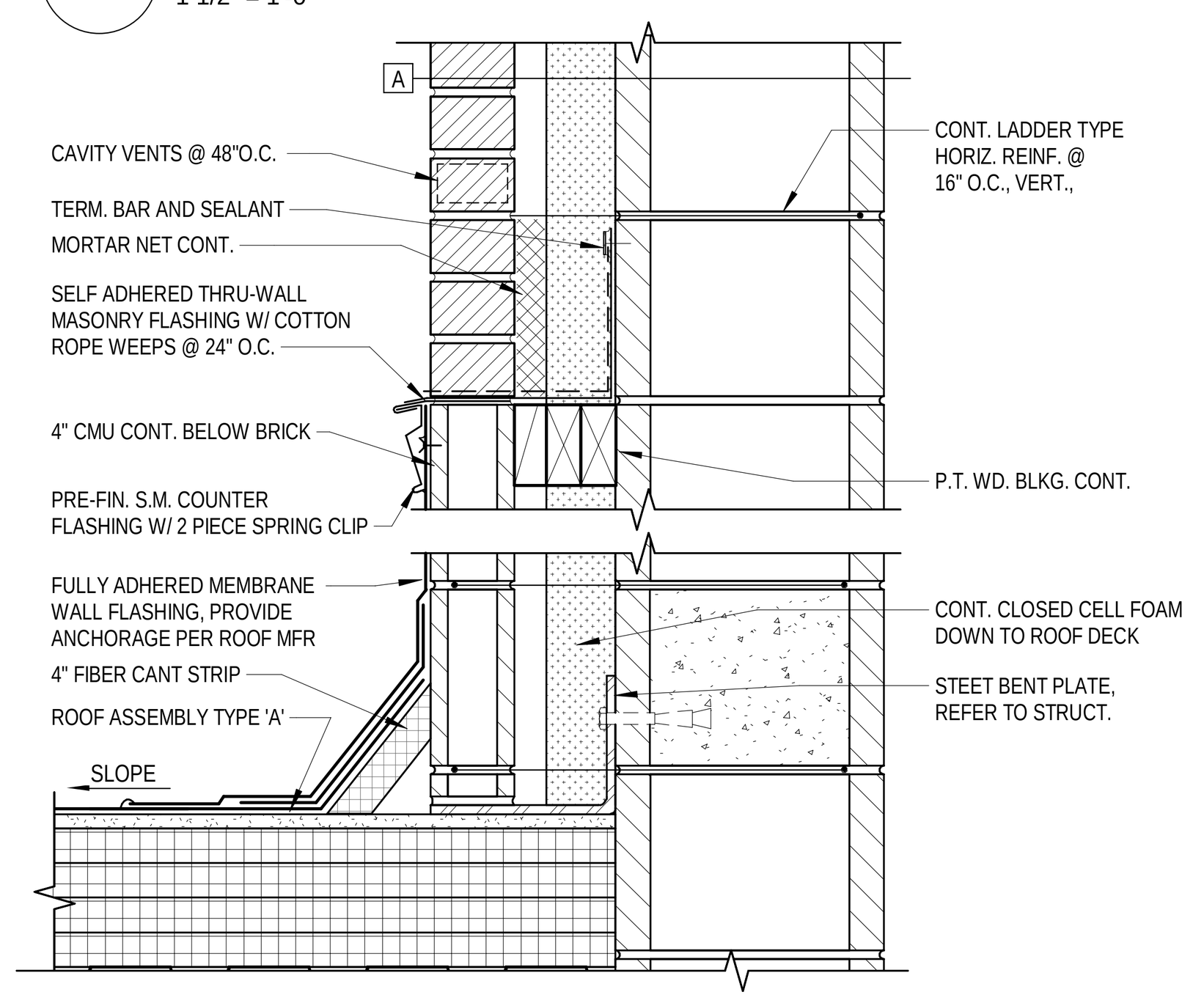
6 GUTTER DETAIL
3" = 1'-0"



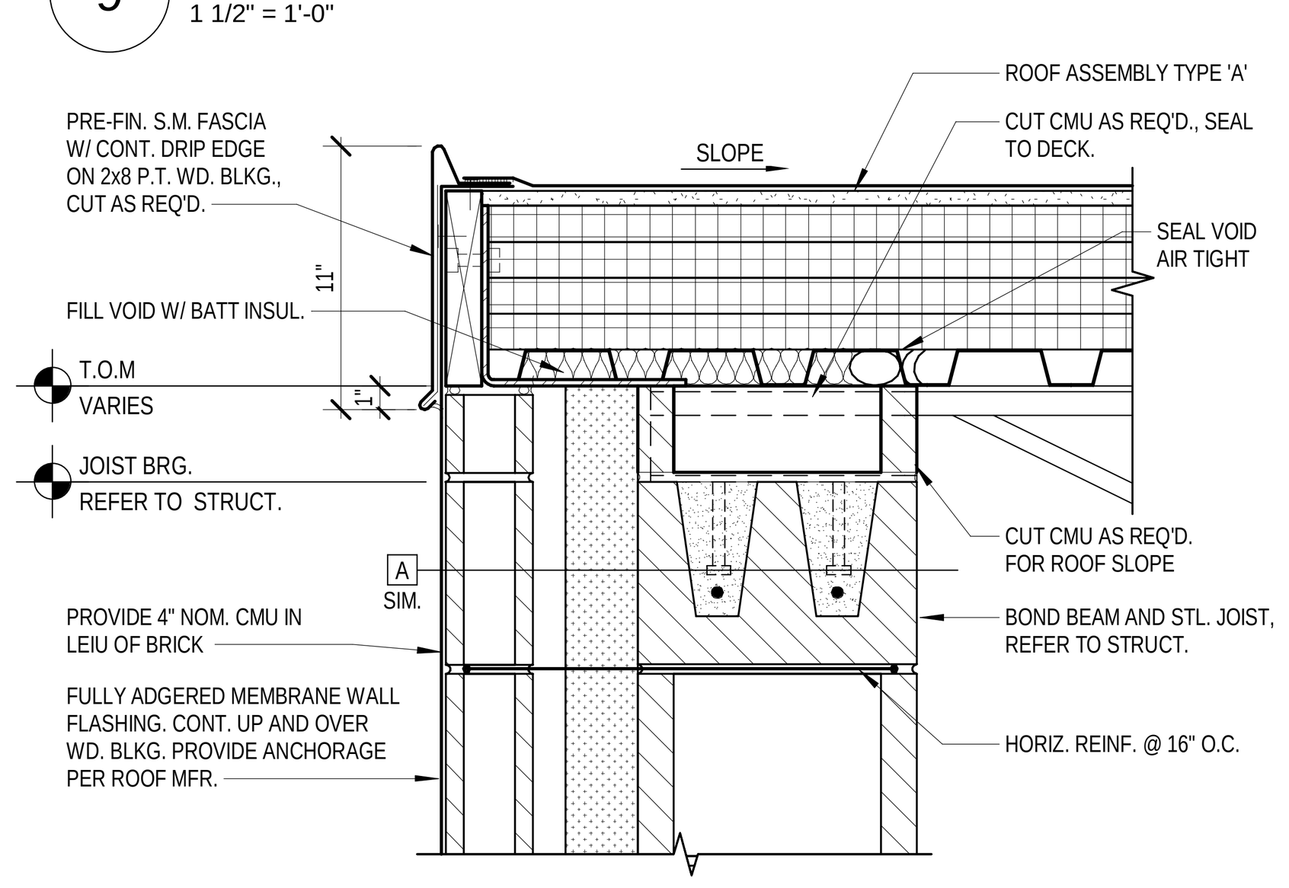
7 ROOF DETAIL
1 1/2" = 1'-0"



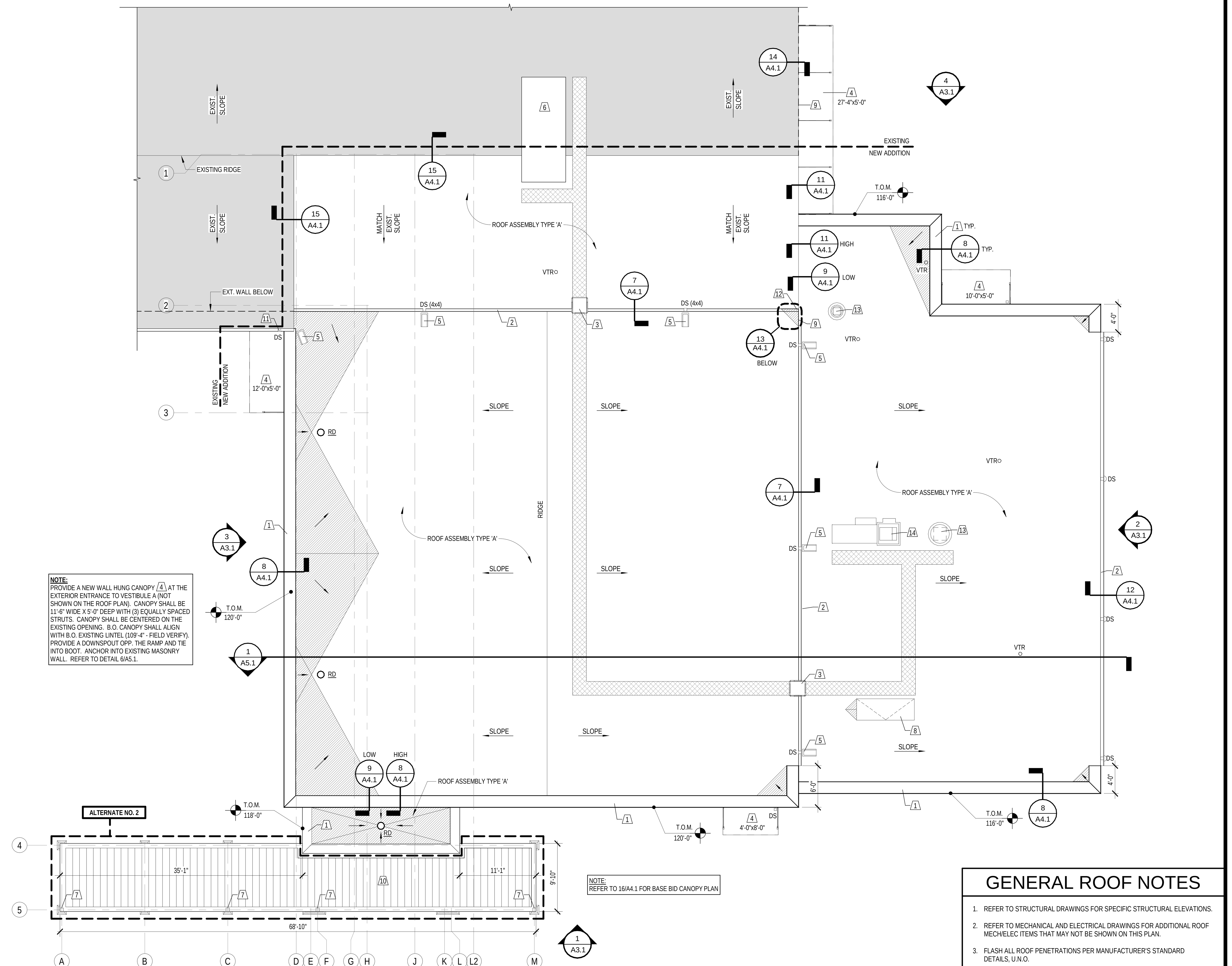
8 ROOF DETAIL
1 1/2" = 1'-0"



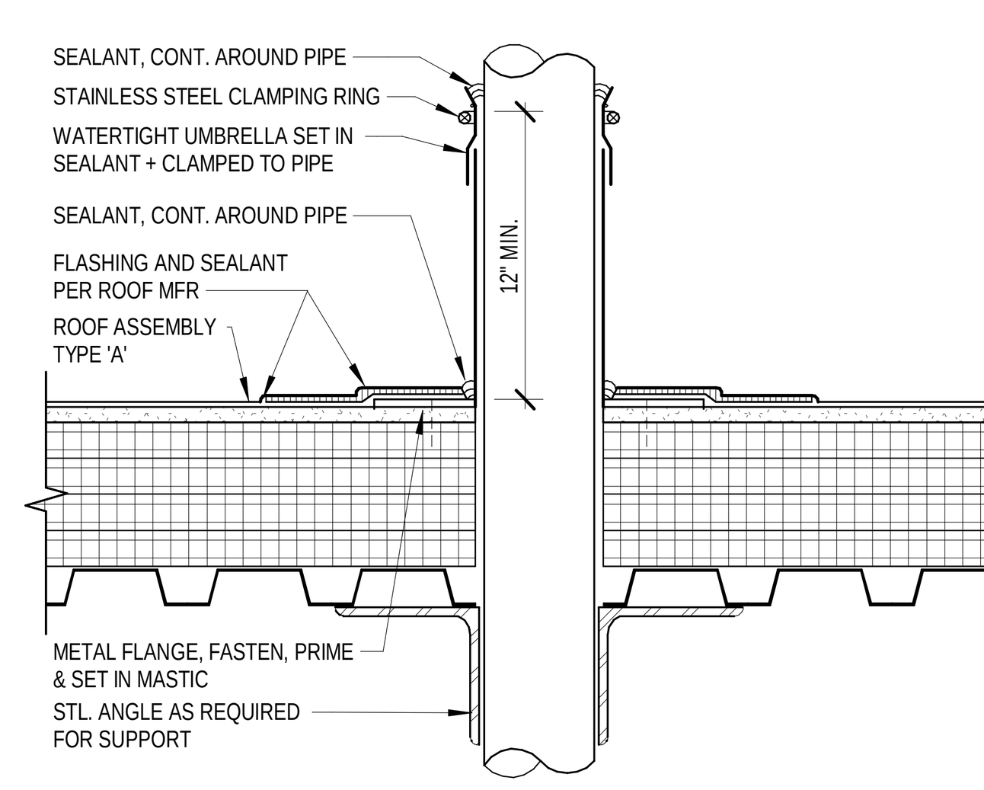
9 ROOF DETAIL
1 1/2" = 1'-0"



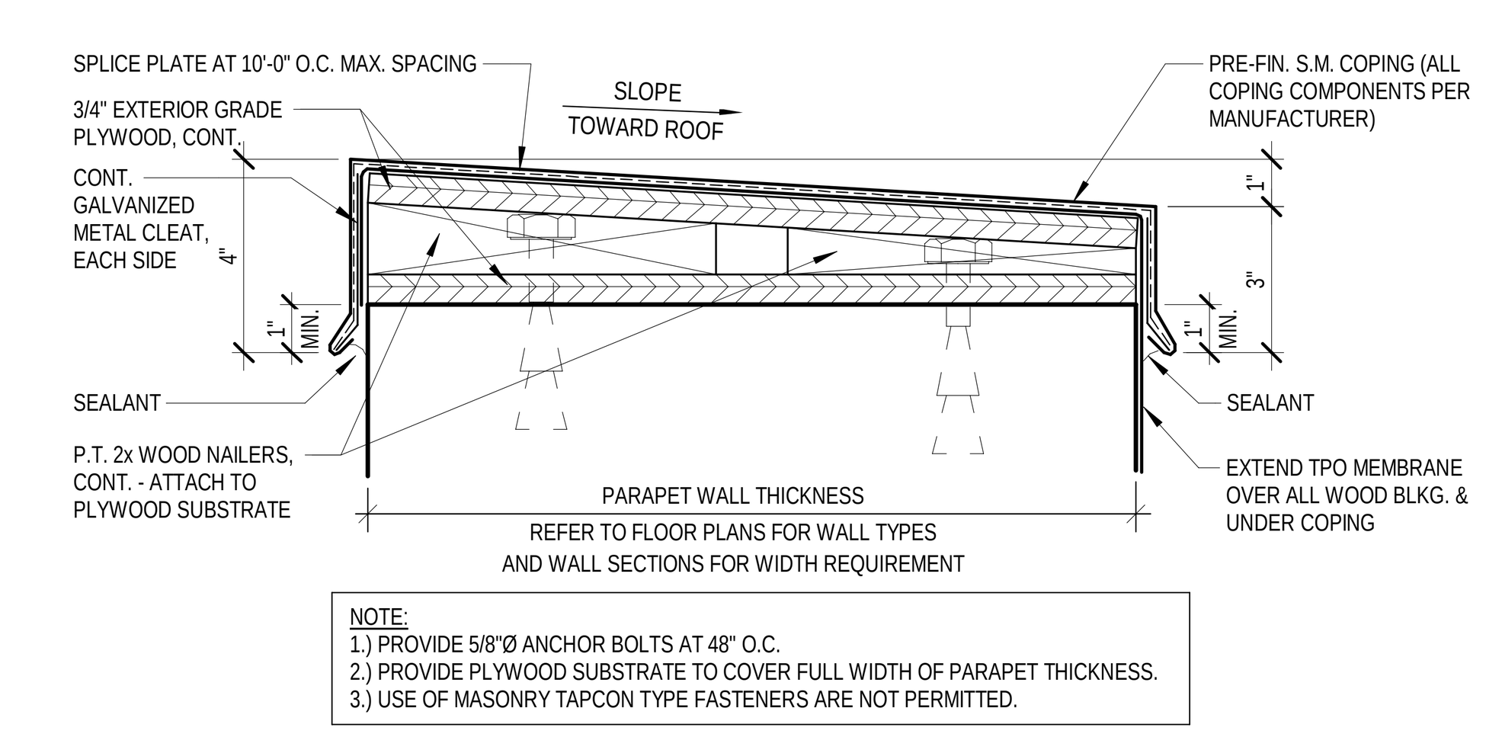
10 ROOF DETAIL
1 1/2" = 1'-0"



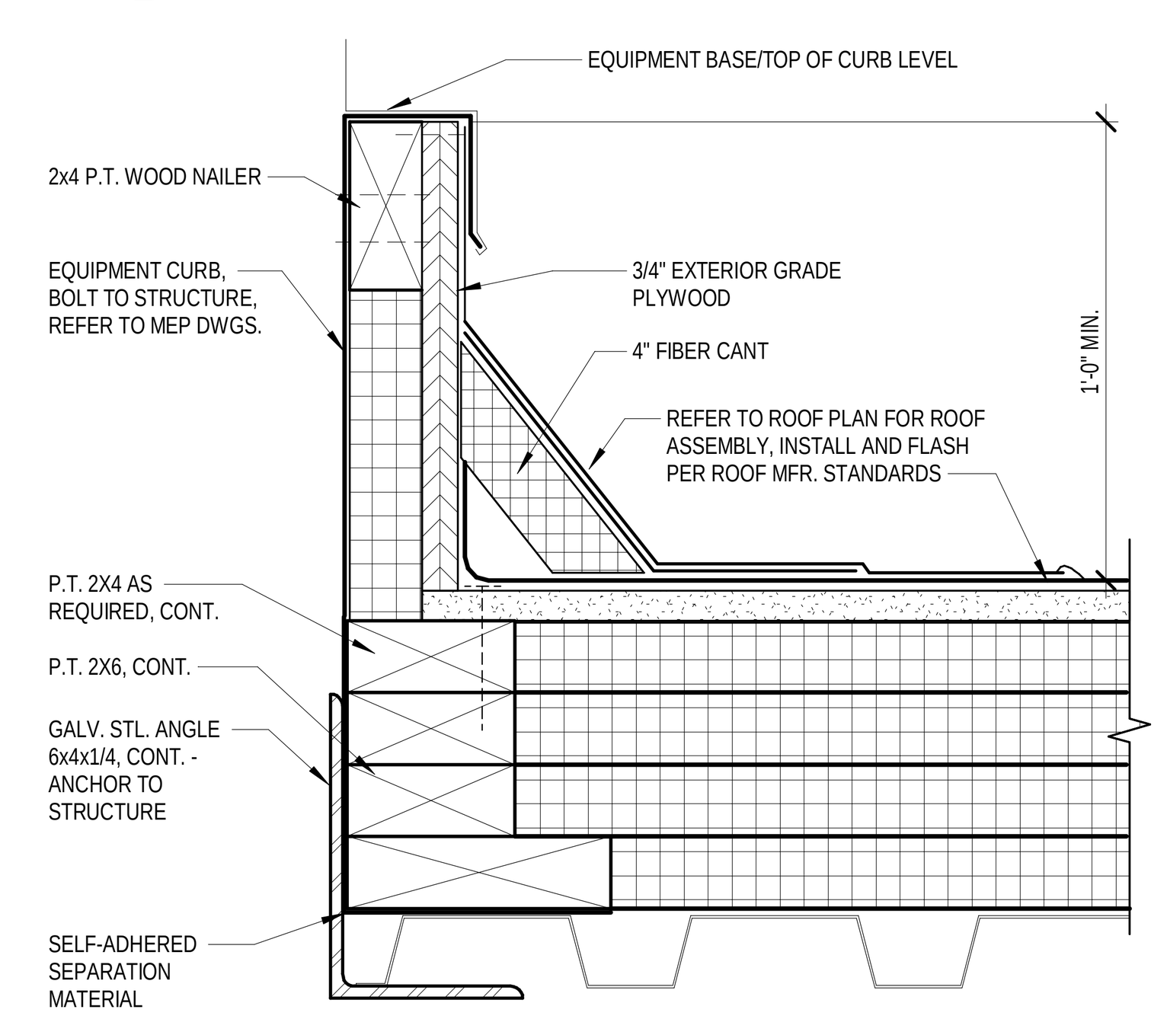
1 ROOF PLAN
1/8" = 1'-0"



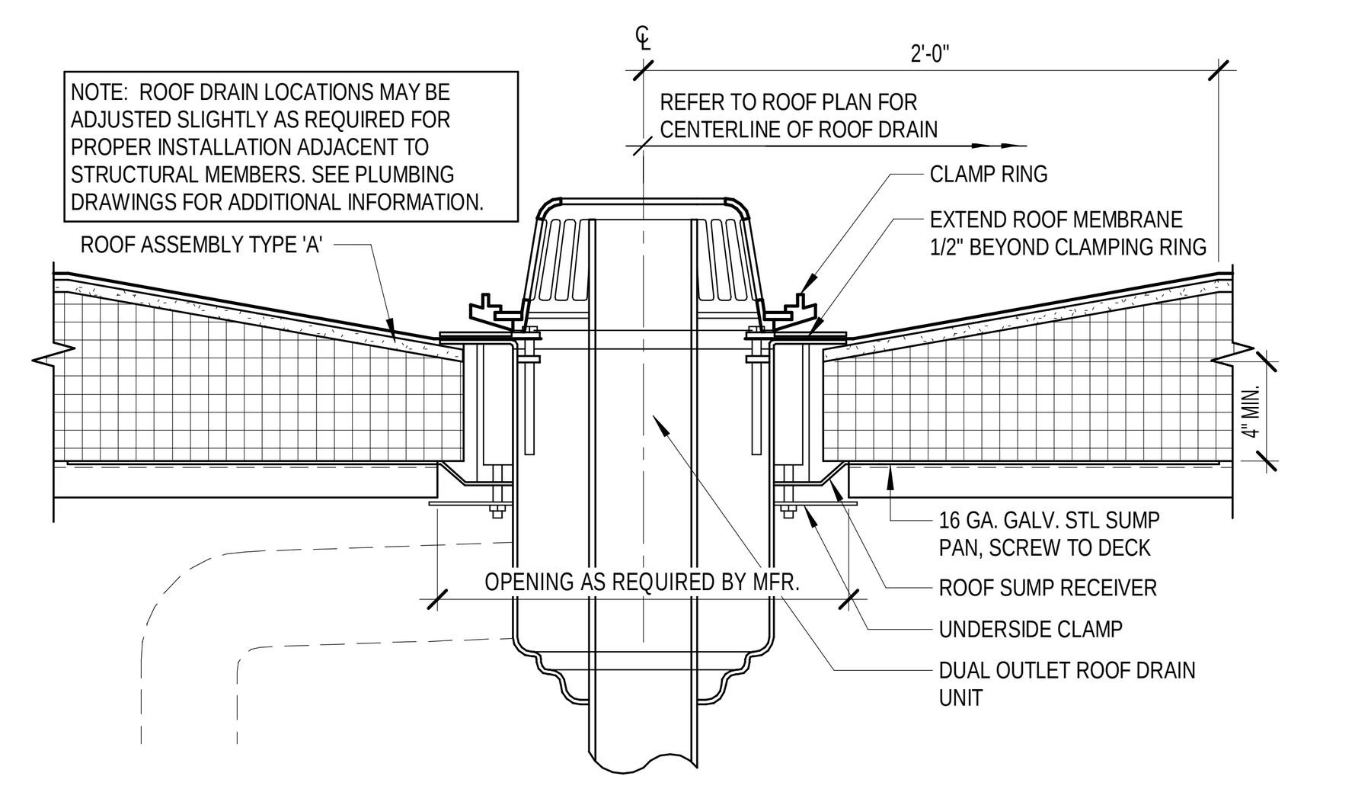
4 TYPICAL ROOF PENETRATION
1 1/2" = 1'-0"



2 TYPICAL COPING DETAIL
3" = 1'-0"



5 TYPICAL MECHANICAL CURB DETAIL
3" = 1'-0"



3 TYPICAL ROOF DRAIN/OVERFLOW DETAIL
1 1/2" = 1'-0"

GENERAL ROOF NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC STRUCTURAL ELEVATIONS.
2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF MECH/ELEC ITEMS THAT MAY NOT BE SHOWN ON THIS PLAN.
3. FLASH ALL ROOF PENETRATIONS PER MANUFACTURER'S STANDARD DETAILS, U.N.O.
4. THE ROOFING CONTRACTOR SHALL NOT CONCEAL ANY WEEPS, BRICK VENTS, EXPANSION JOINTS, OR FLASHINGS. ROOFING SHALL TERMINATE AS SHOWN ON DETAILS.
5. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ROOFING/FLASHING WITH OTHER TRADES FOR ADDITIONAL WORK REQUIRED.
6. INSTALL CRICKETS TO MAINTAIN MINIMUM CLEARANCE TO MEMBRANE AS REQUIRED ON THE UPPER SIDE OF ALL EQUIPMENT CURBS, TYPICAL.
7. REFER TO DETAIL 4/A4.1 FOR TYPICAL PENETRATION DETAIL.
8. REFER TO DETAIL 5/A4.1 FOR TYPICAL EQUIPMENT CURB DETAIL.
9. CONFIRM ALL ROOF SLOPES ARE 1/4"/FT. MIN. PRIOR TO INSTALLATION.

X ROOF KEY NOTES

1. PRE-FINISHED S.M. COPING. REFER TO 2/A4.1.
2. PRE-FIN. S.M. GUTTER. REFER TO DETAIL 6/A4.1.
3. ROOF LADDER WITH WALK-THRU PLATFORM. SEAL ALL PENETRATIONS. REFER TO SPECIFICATIONS.
4. PRE-ENGINEERED ALUMINUM CANOPY WITH INTEGRAL DOWNSPOUT. TIE INTO BOOT @ 2'-8" A.F.F. REFER TO SITE DWGS. SIZE INDICATED ON ROOF PLAN. REFER TO DETAIL 6/A5.1.
5. TERMINATE DOWNSPOUT @ SPLASHBLOCK ON LOWER ROOF.
6. ROOF TOP UNIT, REFER TO MECH. DWGS. AND DETAIL 5/A4.1.
7. INTEGRAL DOWNSPOUT IN PRE-ENG. CANOPY COLUMN. REFER TO SITE DWGS. FOR DISCHARGE.
8. ROOF HATCH. REFER TO DETAIL 2/A5.1.
9. PRE-FIN. S.M. RAKE. REFER TO DETAIL 14/A4.1 @ EXIST. ROOF 11/A4.1 @ NEW.
10. PRE-ENG. WALKWAY COVER (ALTERNATE NO. 2). REFER TO DETAILS.
11. REMOVE EXISTING DOWNSPOUT. PROVIDE NEW DOWNSPOUT AND ROUTE TO SPLASH BLOCK ON ADJACENT NEW ROOF. CAP EDGE OF EXISTING GUTTER.
12. PROVIDE VERTICAL TERMINATION BAR. REFER TO DETAIL 13/A4.1.
13. EXHAUST FAN, REFER TO FOOD SERVICE AND MEP DRAWINGS.
14. KITCHEN HOOD, REFER TO FOOD SERVICE AND MEP DRAWINGS.

ROOF LEGEND

ROOF ASSEMBLY TYPE 'A'

SBS MODIFIED BITUMEN MEMBRANE ROOFING, OVER FIBER REINFORCED GYPSUM UNDERLAYMENT, OVER (4) LAYERS OF 1 1/2" RIGID INSULATION STAGGERED (6" TOTAL INSUL. THICKNESS) ON METAL ROOF DECK. MATCH SLOPE OF STRUCTURE U.N.O.

EXISTING MODIFOED BITUMEN ROOF ASSEMBLY TO REMAIN. PROTECT DURING CONSTRUCTION.

INDICATES CRICKET, SLOPE 1/4" PER FOOT IN DIRECTION OF ARROW

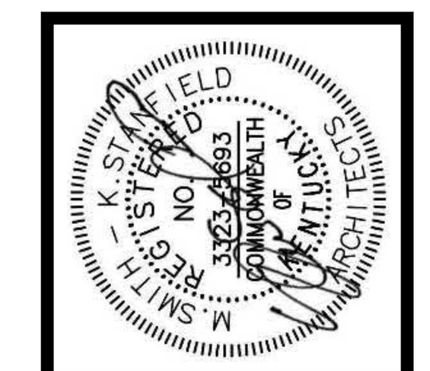
INDICATES 2'-0" WIDE ROOF WALKWAY PAD, REFER TO SPECIFICATIONS

DS — PRE-FIN. 5"x5" S.M. DOWNSPOUT. TIE INTO BOOT, U.N.O.

RD — COMBINATION ROOF DRAIN / OVERFLOOW DRAIN, REFER TO DETAIL 3/A4.1

VTR — VENT THRU ROOF, REFER TO DETAIL 4/A4.1

SHERMAN CARTER BARNHART ARCHITECTS



SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

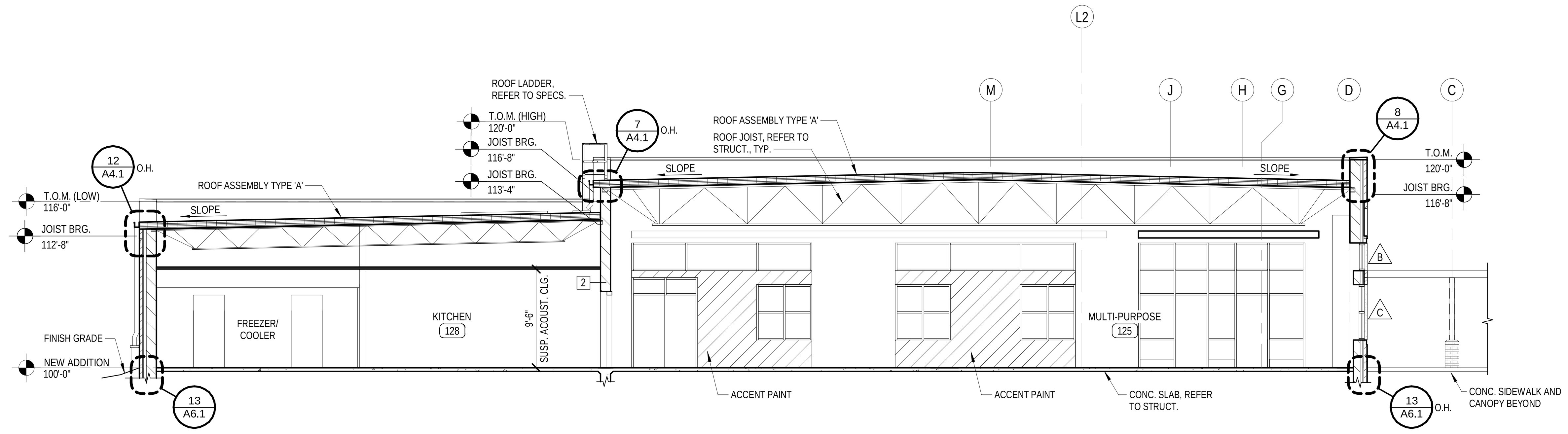
ROOF PLAN AND DETAILS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

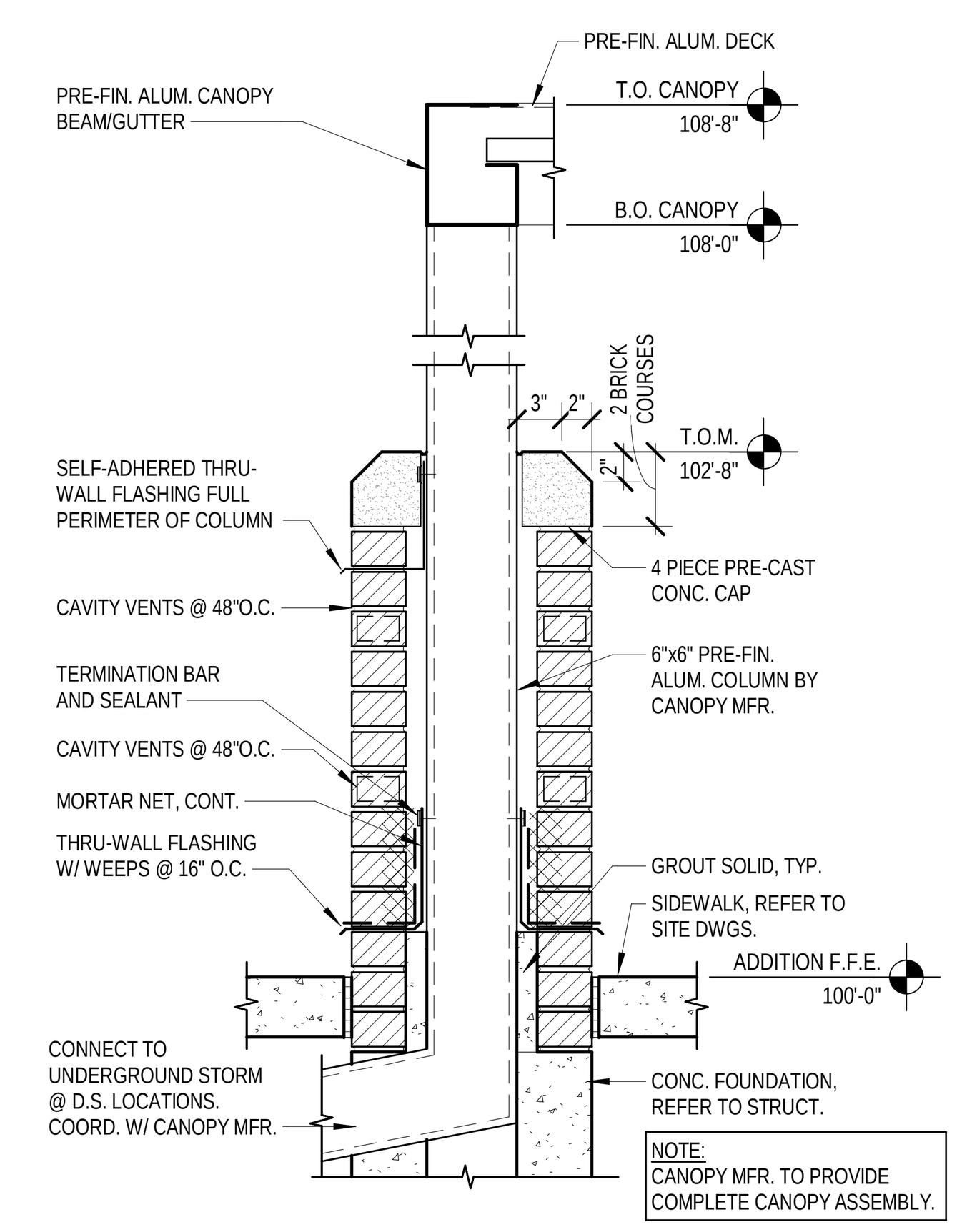
REVISIONS

No.	Description	Date

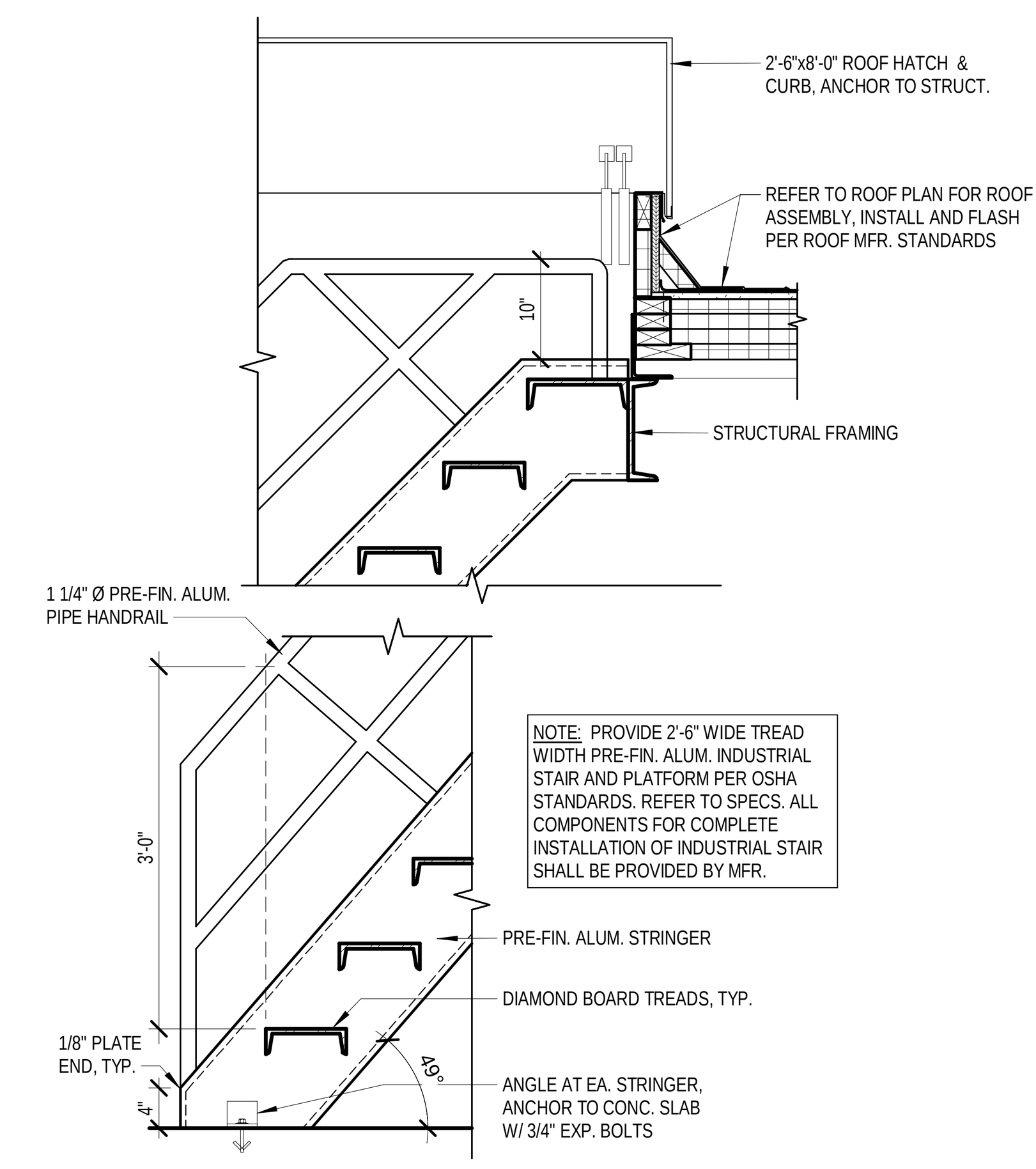
SHEET
A4.1



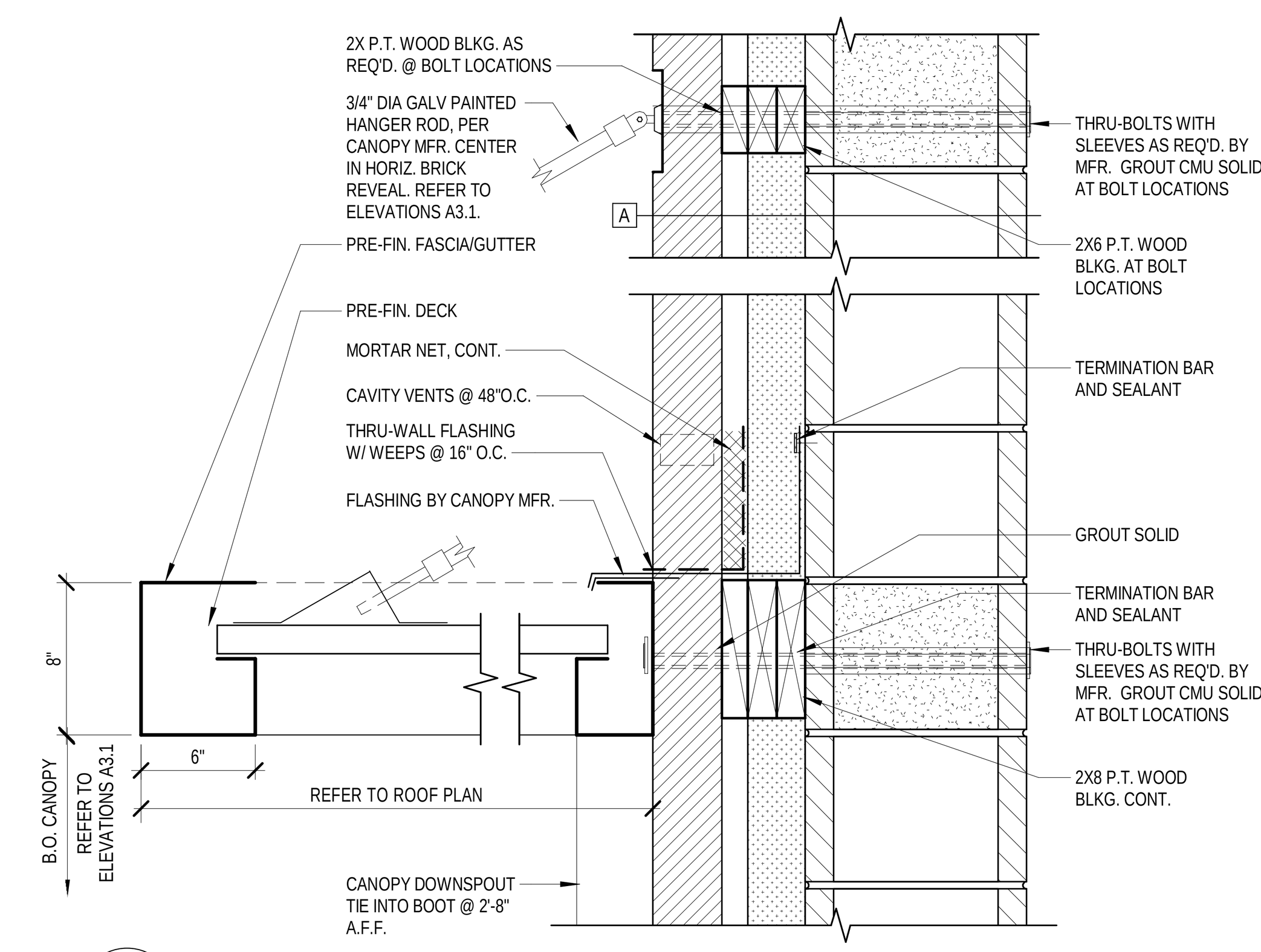
1 SECTION THRU ADDITION
1/8" = 1'-0"



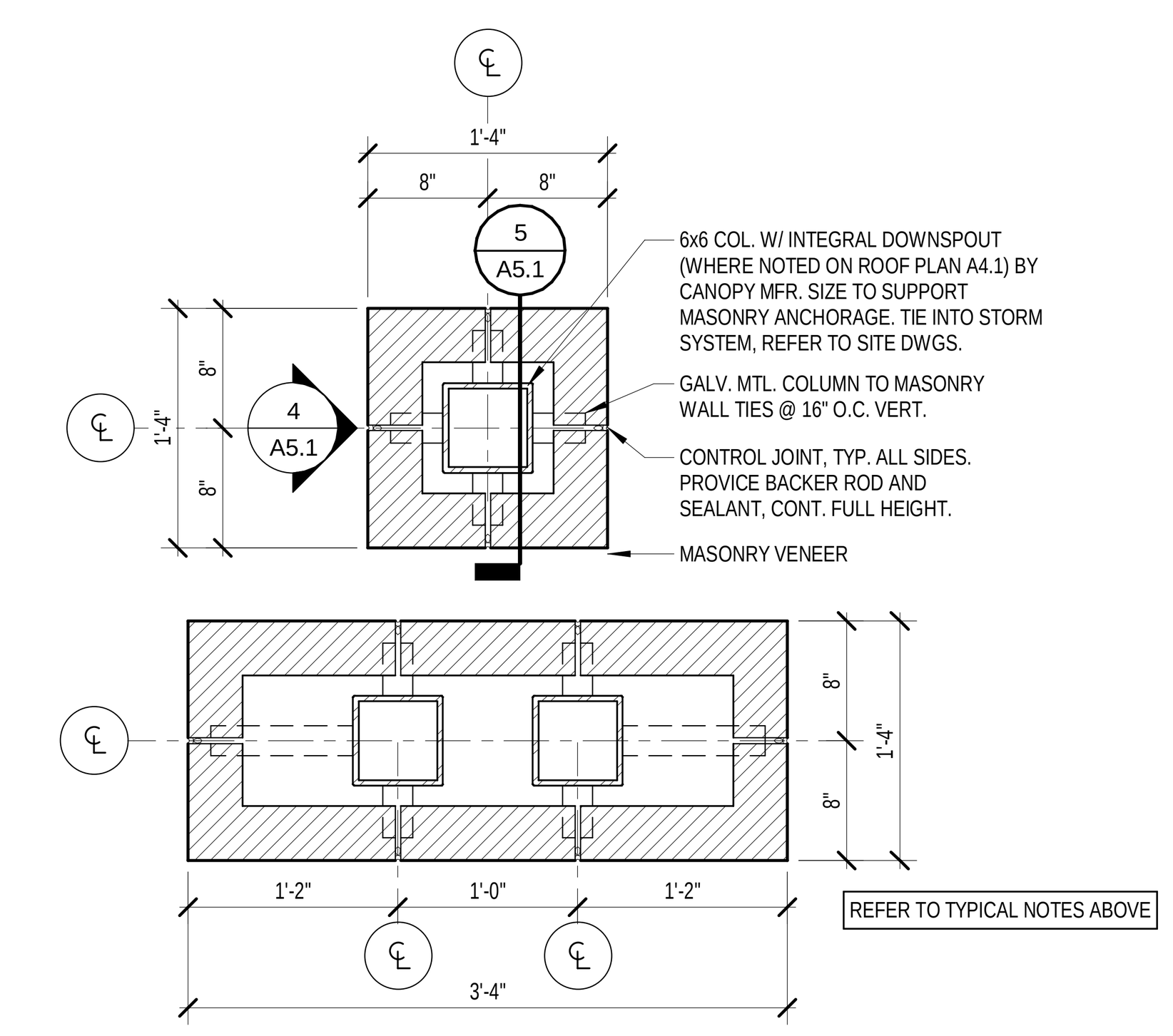
5 DETAIL
1" = 1'-0"



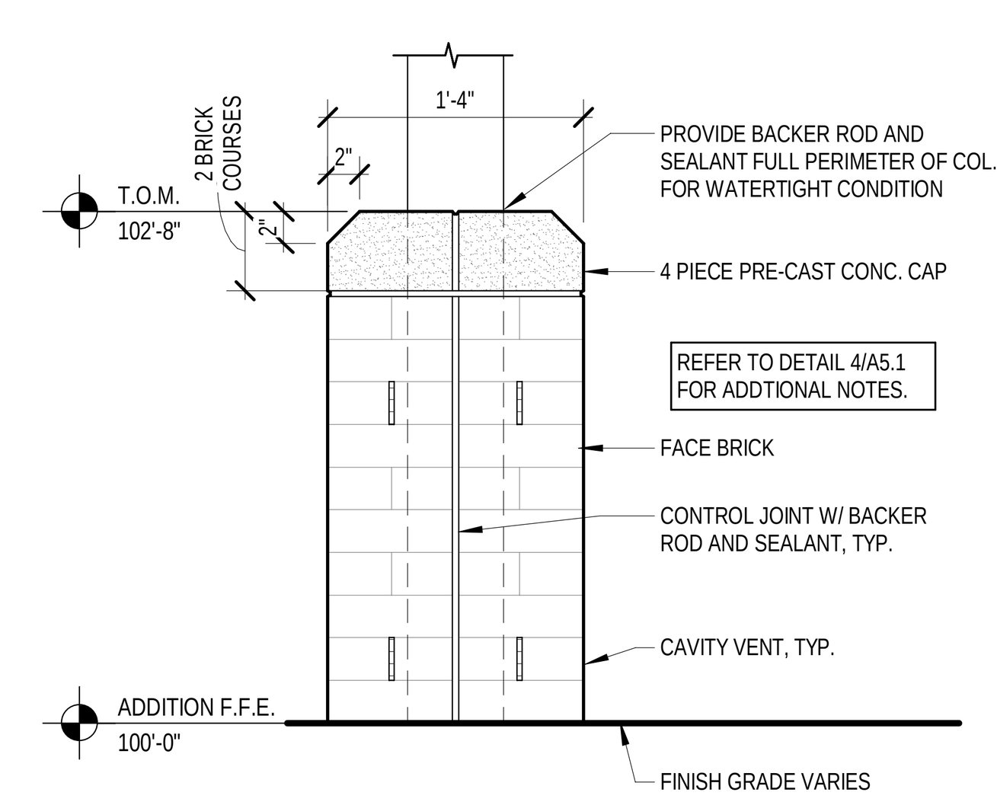
2 INDUSTRIAL STAIR DETAIL
3/4" = 1'-0"



6 CANOPY DETAIL
1 1/2" = 1'-0"



3 DETAIL
1" = 1'-0"



4 DETAIL
1" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

BUILDING SECTION AND DETAILS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

No.	Description	Date

SHEET
A5.1

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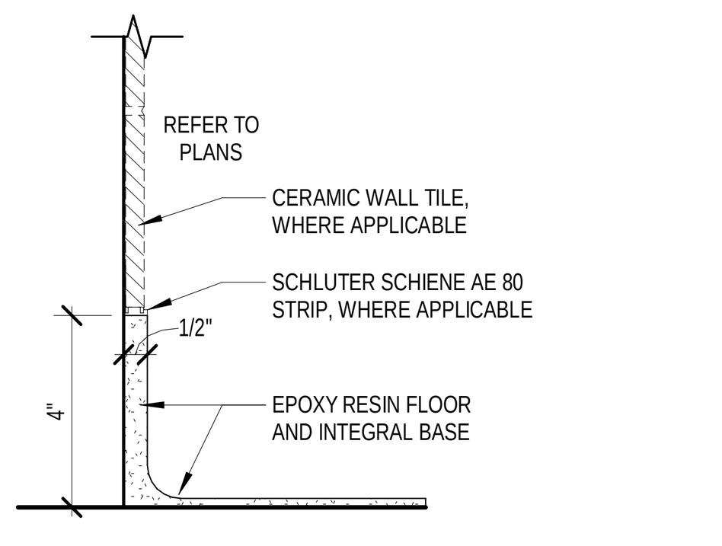
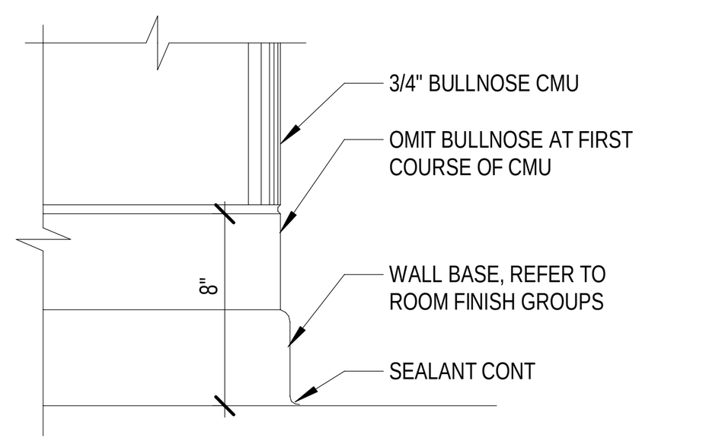
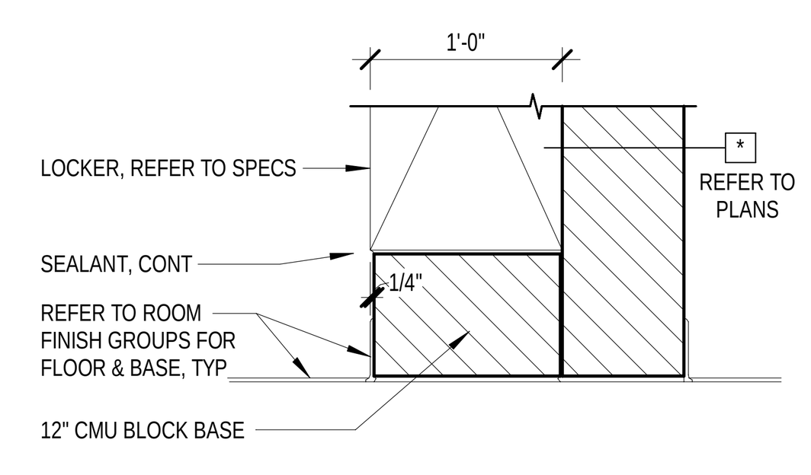
12/16/2019 8:48:49 AM



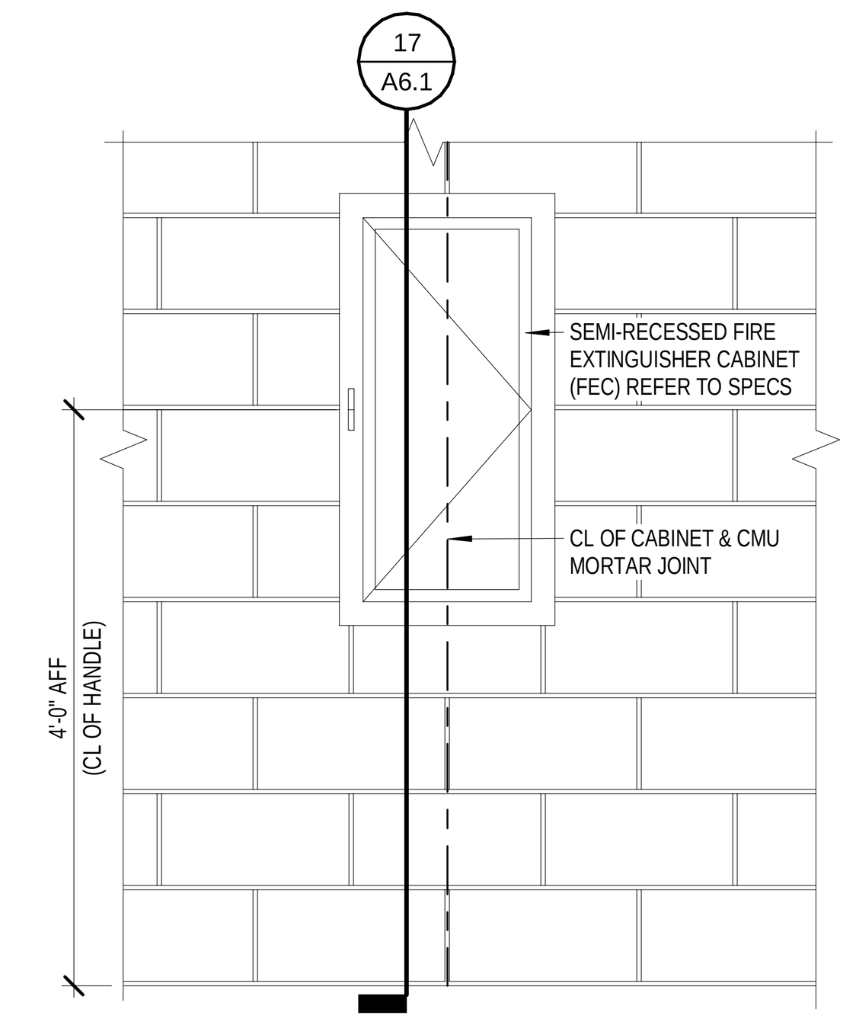
21 TYPICAL RESIN BASE DETAIL
3" = 1'-0"



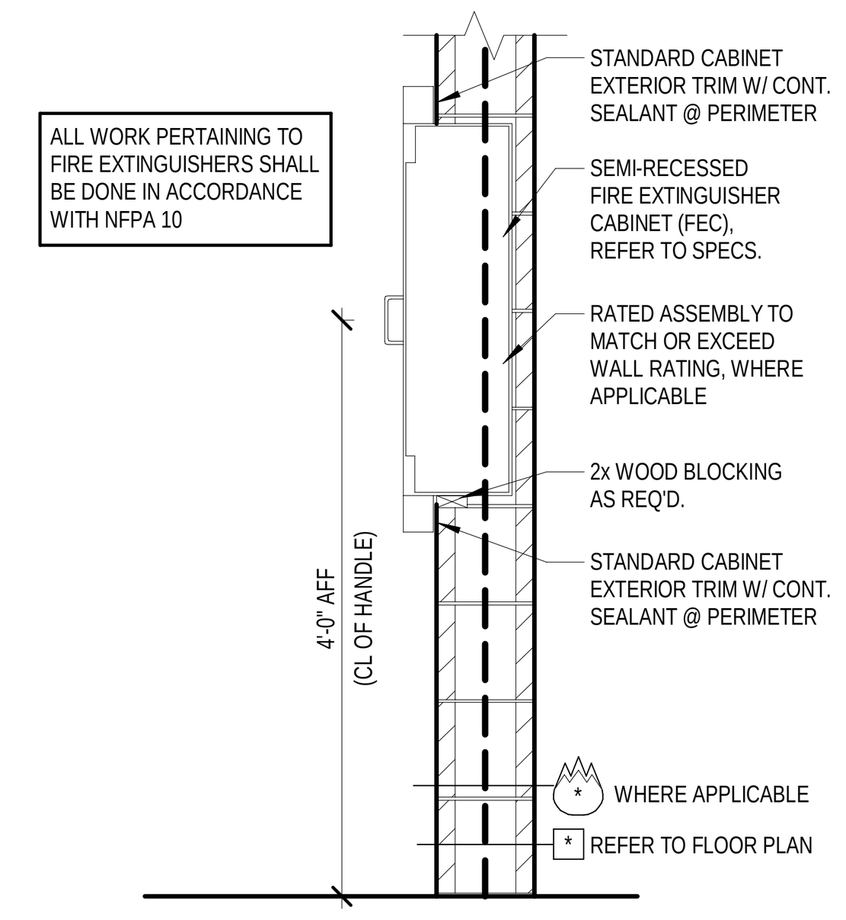
22 TYPICAL RESILIENT BASE DETAIL
1 1/2" = 1'-0"



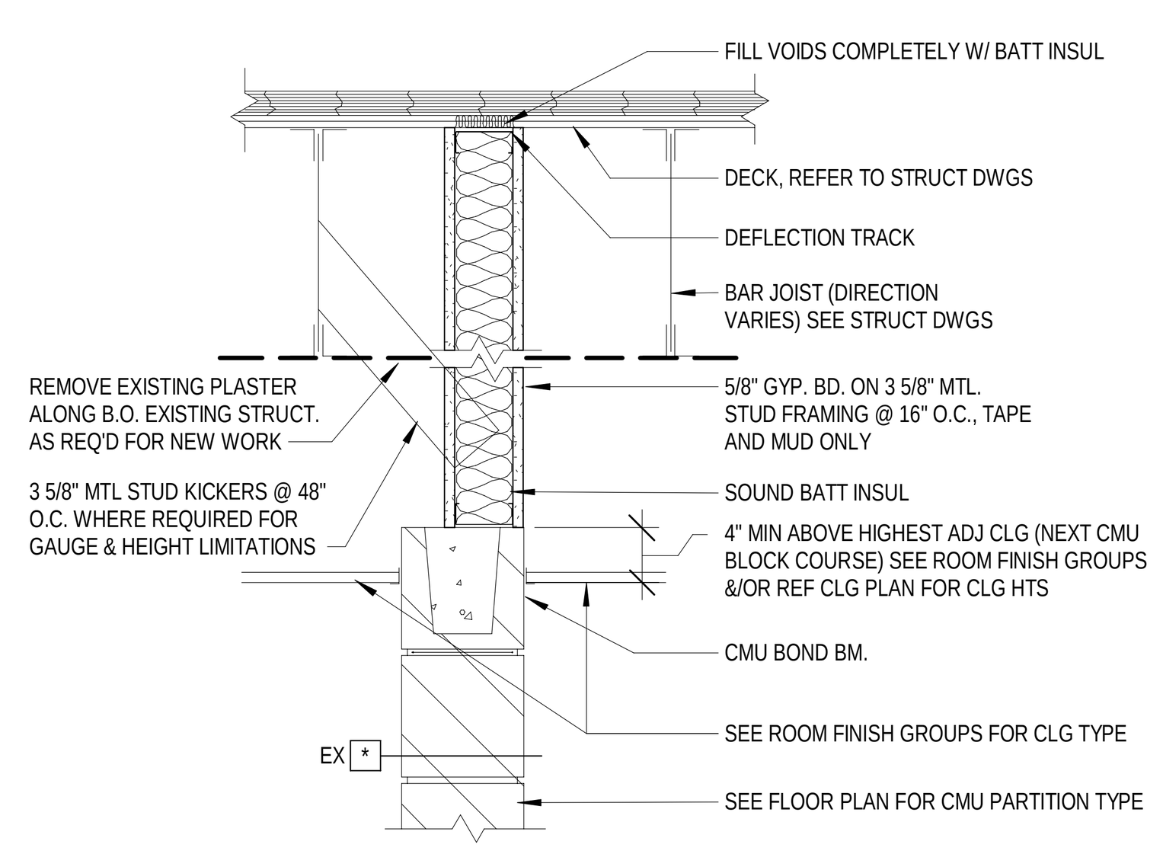
23 LOCKER BASE DETAIL
1" = 1'-0"



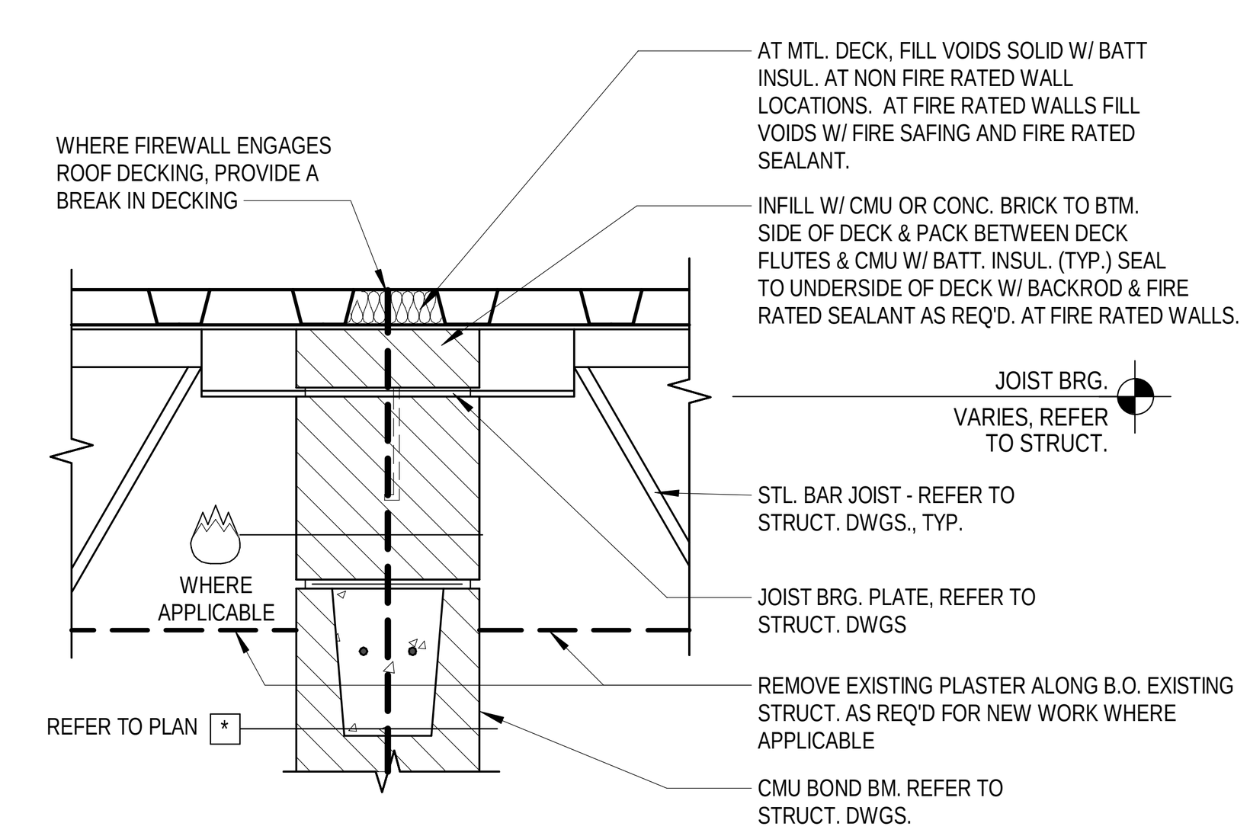
16 FEC ELEVATION
3/4" = 1'-0"



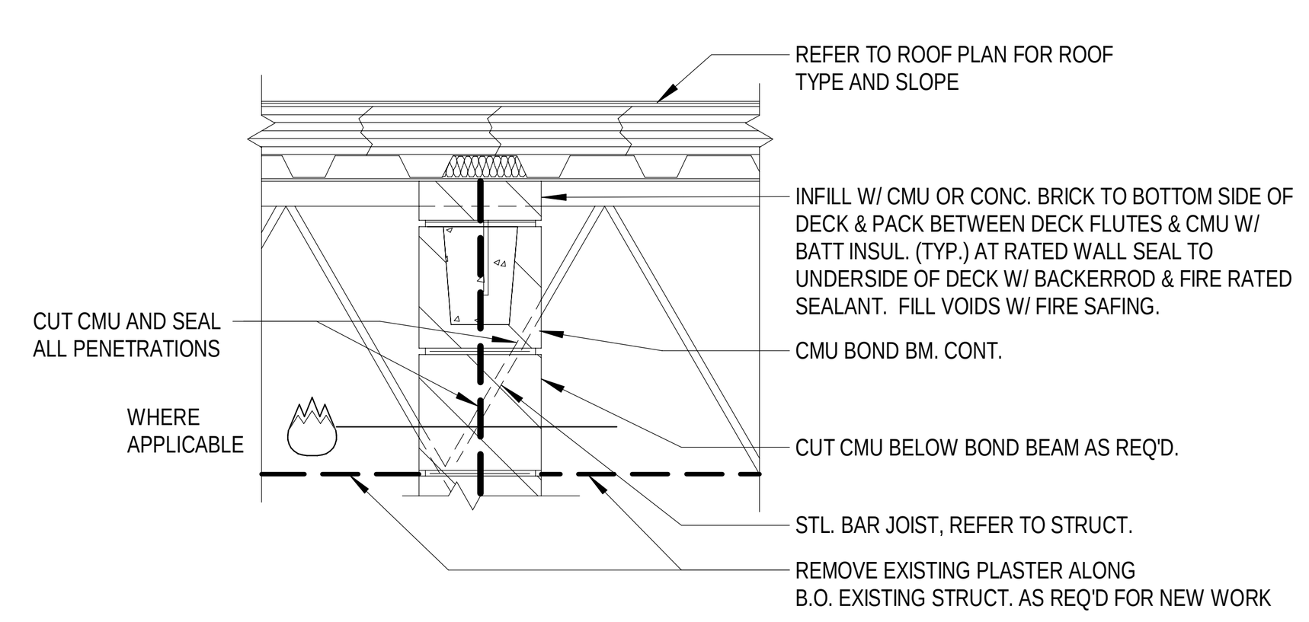
17 FEC SECTION AT CMU
3/4" = 1'-0"



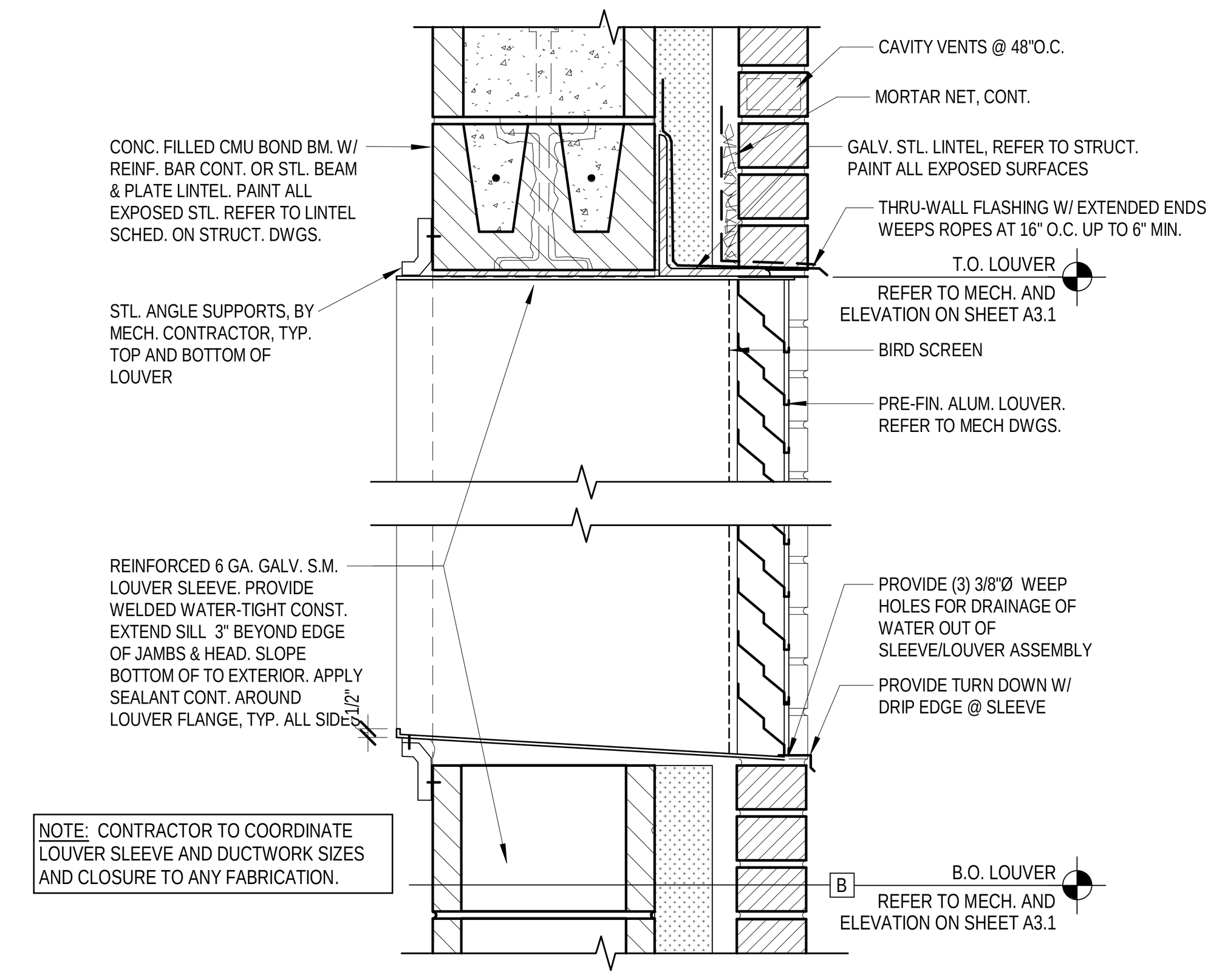
18 TYP. NON-LOAD BEARING "EX" CMU PARTITION
1" = 1'-0"



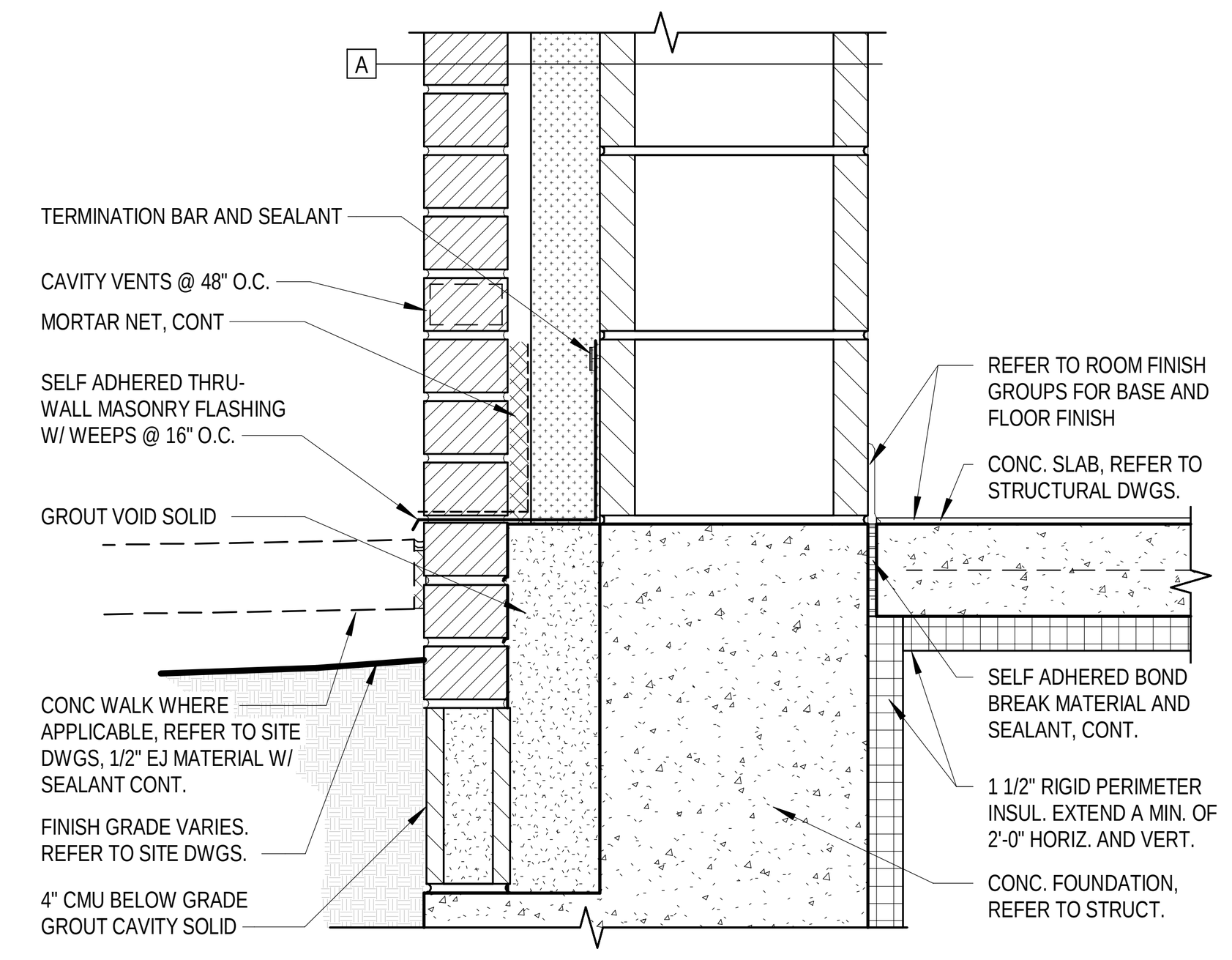
19 TYP. LOAD BEARING CMU PARTITIONS
1 1/2" = 1'-0"



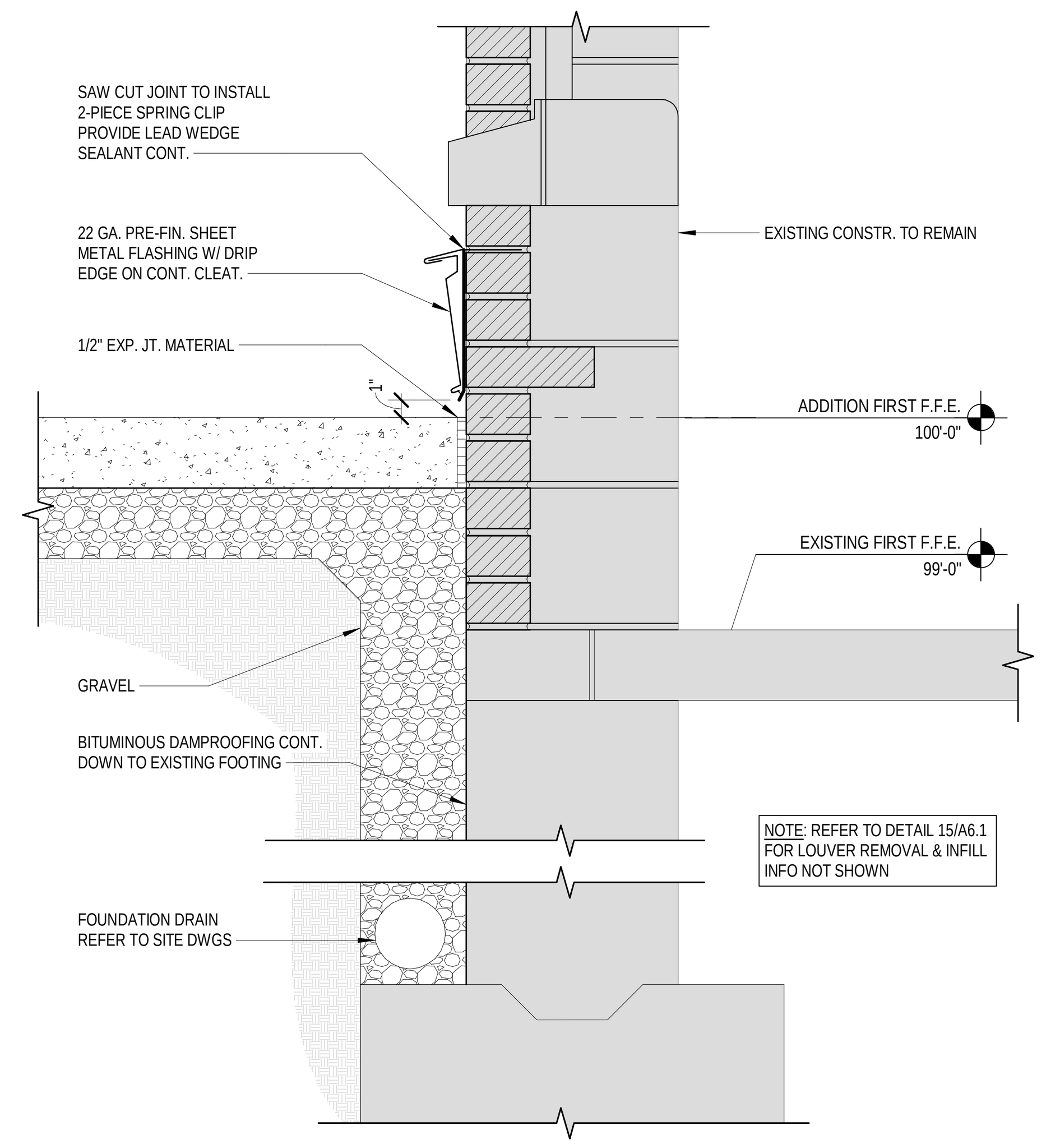
20 TYP. NON-LOAD BEARING CMU PARTITIONS
1" = 1'-0"



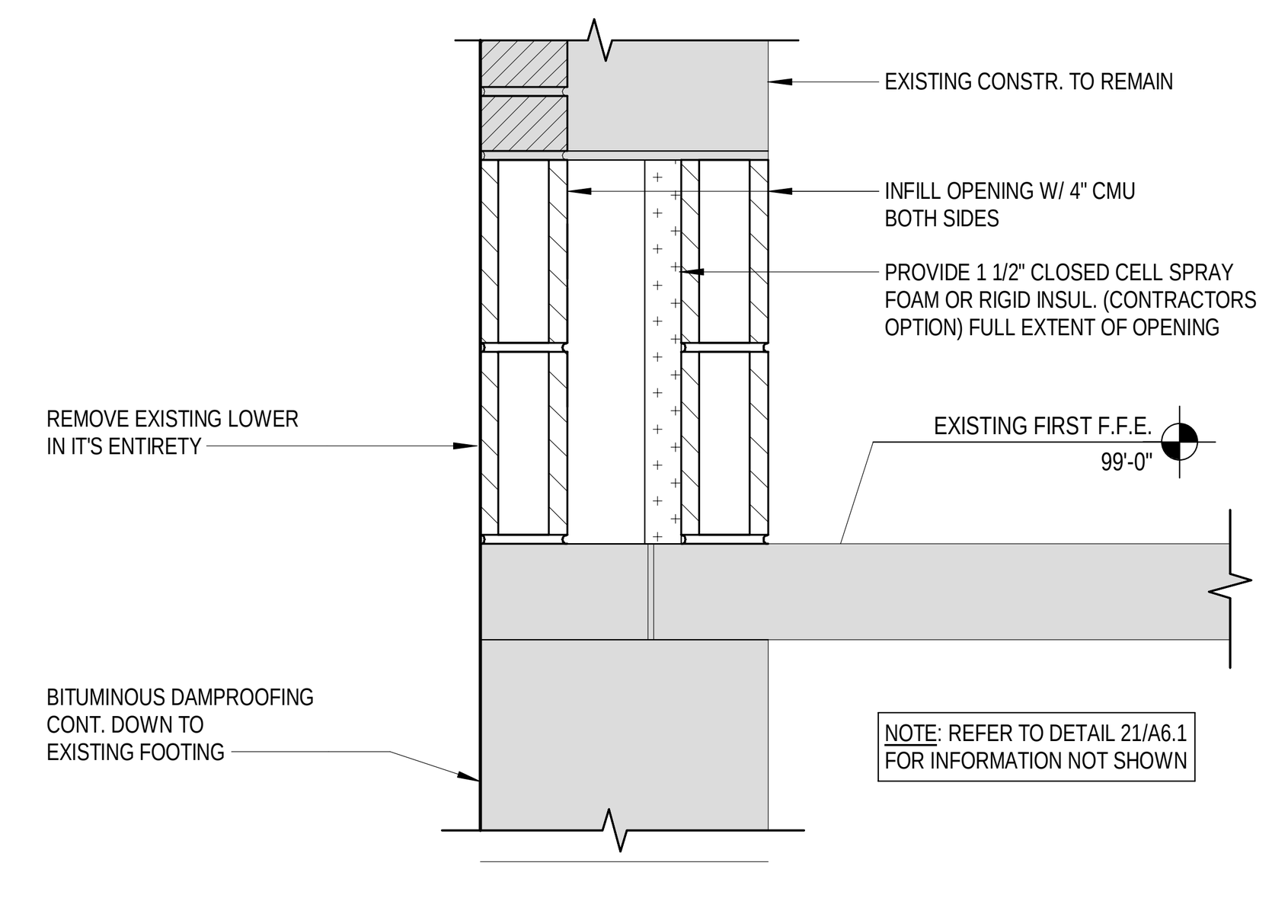
12 LOUVER DETAIL
1 1/2" = 1'-0"



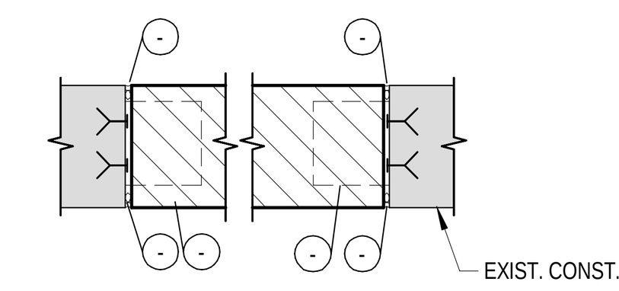
13 TYP. EXT. WALL FLASHING DETAIL
1 1/2" = 1'-0"



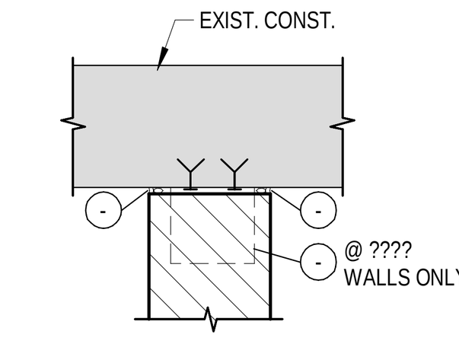
14 DETAIL
1 1/2" = 1'-0"



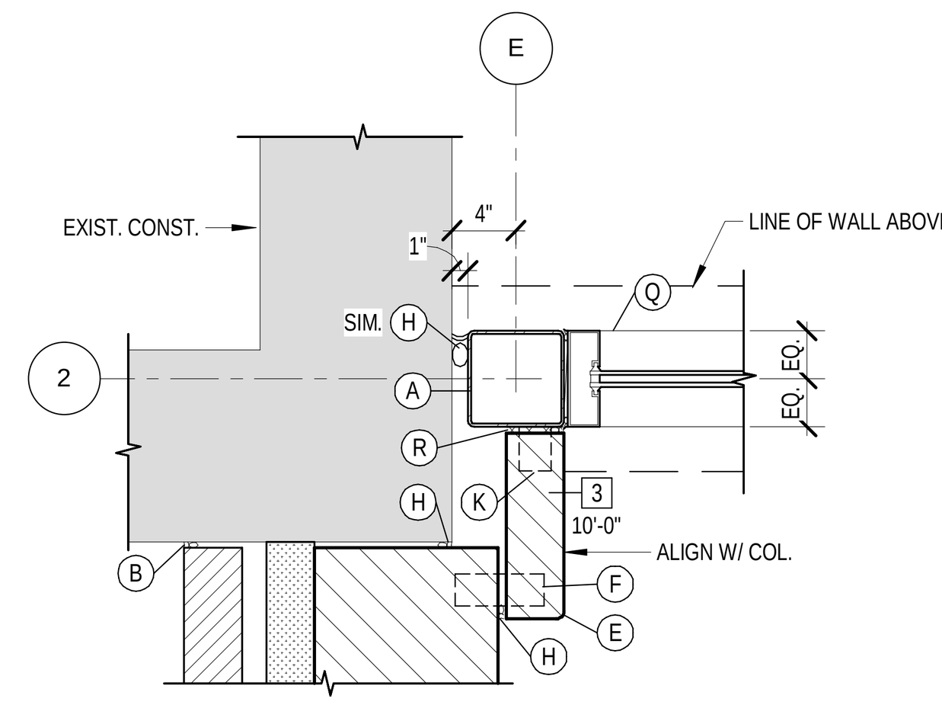
15 DETAIL
1 1/2" = 1'-0"



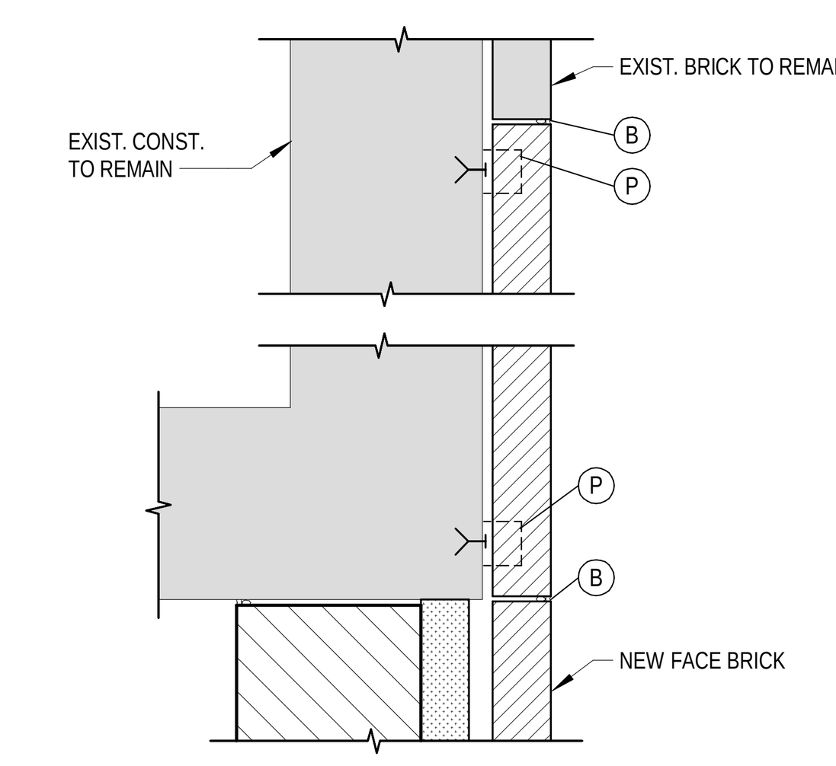
6 DETAIL
1" = 1'-0"



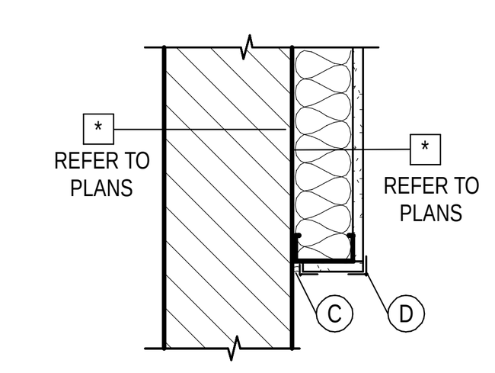
7 DETAIL
1" = 1'-0"



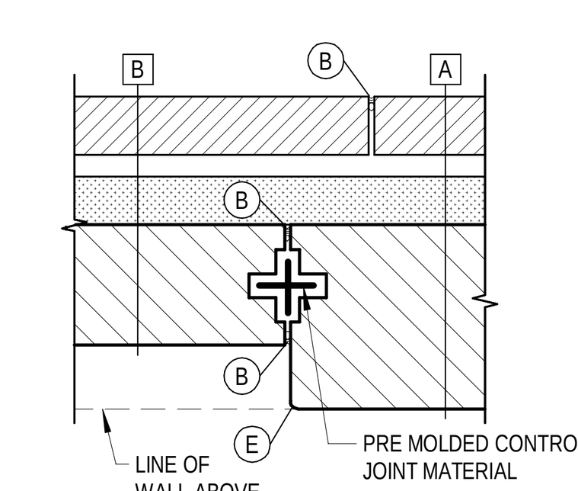
8 DETAIL
1" = 1'-0"



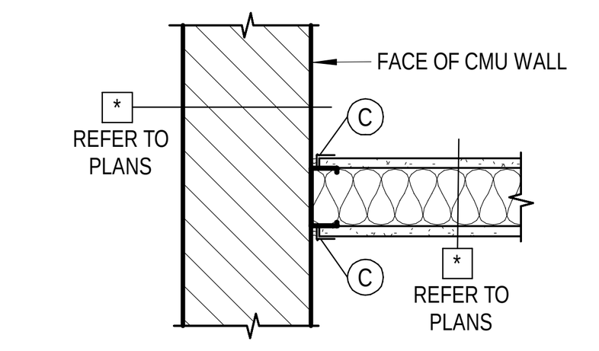
9 DETAIL
1" = 1'-0"



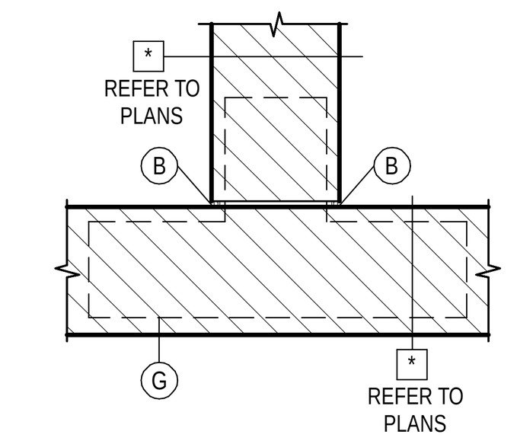
10 TYP. MTL. STUD PERP. TO CMU
1" = 1'-0"



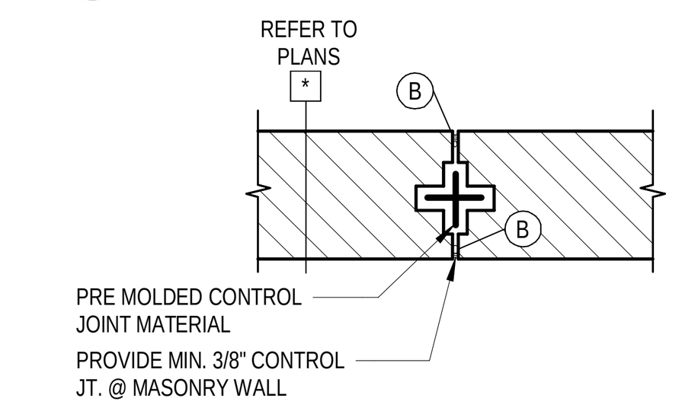
11 DETAIL
1" = 1'-0"



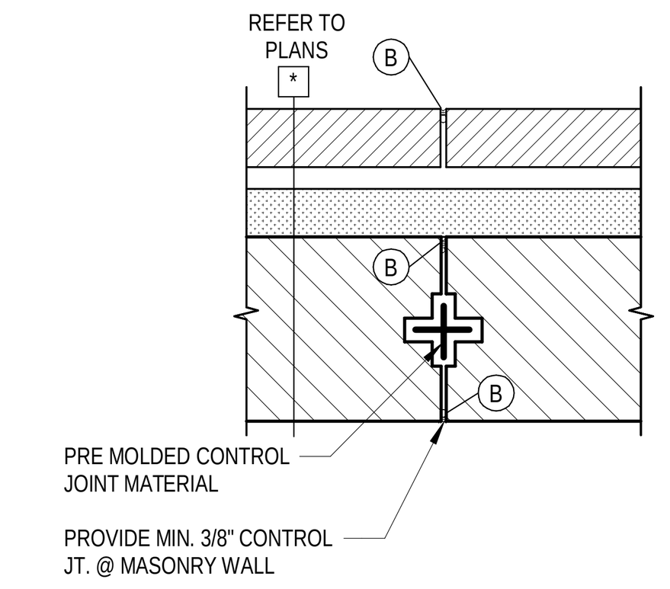
1 TYP. MTL. STUD PERP. TO CMU
1" = 1'-0"



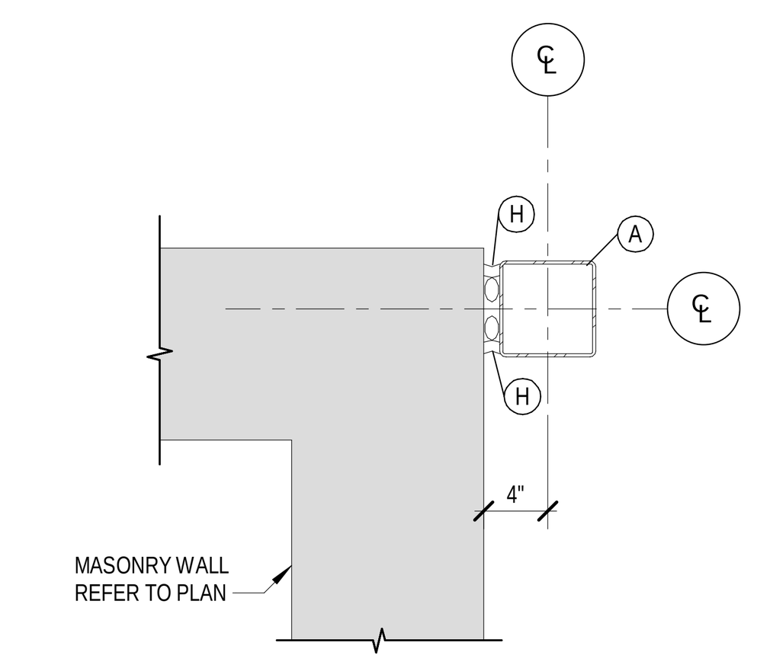
2 TYP. CMU PERP. TO CMU
1" = 1'-0"



3 TYP. CONTROL JOINT @ INTERIOR
1" = 1'-0"



4 TYP. CONTROL/MASONRY EXPANSION JOINT (EXTERIOR)
1" = 1'-0"



5 DETAIL
1" = 1'-0"

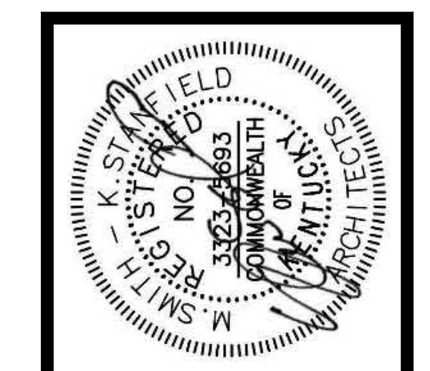
GENERAL COLUMN & WALL DETAIL NOTES

1. SEE STRUCTURAL AND ARCHITECTURAL FLOOR PLANS FOR COL. LINES AND DIMENSIONS NOT SPECIFICALLY REFERENCED ON THESE DETAILS.
2. FIRE RATED SEALANT IS REQUIRED AT ALL JOINTS IN RATED WALLS.
3. DO NOT ANCHOR OR ATTACH ADJACENT MASONRY OR STEEL TO FIREWALL "FW2". DO NOT GROUT ADJACENT CMU TO FIREWALL, PROVIDE FOAM ROD AND SEALANT.
4. SAWCUT ALL MASONRY AT STRUCTURAL STEEL AS REQUIRED TO MAINTAIN A3/8" CLEARANCE BETWEEN MASONRY AND STEEL.

COLUMN AND WALL KEYNOTES

A. STEEL COLUMN. SHOP PRIME ALL COLUMNS. SHOP PRIME AND PAINT IF NOT CONCEALED BY COLUMN COVERS OR OTHER WALL MATERIALS.
B. JOINT W/ BACKER ROD AND SEALANT. JOINT TO BE 3/8" U.N.O. PROVIDE FIRE RATED SEALANT AT FIRE RATED WALLS.
C. L-BEAD AND SEALANT CONT. FULL HEIGHT.
D. CORNER BEAD
E. BULLNOSE CMU CORNER.
F. GALV. HARDWARE SCREEN TIES @ 16" O.C. VERTICAL.
G. PROVIDE PRE-FORMED "T"' OR CORNER REINF. @ 16" O.C. VERTICAL.
H. BACKER ROD AND SEALANT, CONT. FULL HEIGHT.
J. BATT INSULATION, FULL HEIGHT.
K. GALV. MTL. COLUMN TO MASONRY WALL TIES @ EVERY OTHER VERTICAL BLOCK COURSE.
L. PORCELAIN TILE EDGE TRIM, REFER TO TYPICAL DETAILS SHEET A2.1 AND SPECS.
M. 2x WD. P.T. WOOD BLOCKING AS REQUIRED
N. H.M. FRAME WITH SEALANT CONT. AT PERIMETER, REFER TO DOOR SCHEDULE FOR TYPE AND TO TYP. DETAILS SHEET ON A8.2.
P. EXISTING TO NEW MASONRY WALL TIE @ 16" O.C. VERTICAL.
Q. PRE-FIN. ALUM. STOREFRONT (6") OR CURTAINWALL (7 1/2") SYSTEM. REFER TO PLANS, DOOR SCHEDULE AND FRAME ELEVATIONS. PROVIDE 1/4" WD. SHIM AS REQ'D. W/ LOW EXP. FOAM @ SHIM VOID. PROVIDE RIGID INSUL. INSERTS @ FRAME PERIMETER. PROVIDE CONT. SEALANT AROUND FRAME.
R. MAINTAIN 3/8" MIN. CLEARANCE BETWEEN COL. AND MASONRY. PROVIDE COMPRESSIBLE FILLER BOND BREAK AT VOID.
S. PRE-FIN. 18 GA. BREAK METAL ON 3/4" P.T. EXTERIOR GRADE PLYWOOD. COLOR TO MATCH ADJACENT CURTAIN WALL.

SHERMAN CARTER BARNHART ARCHITECTS



SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

PLAN DETAILS AND MISCELLANEOUS DETAILS

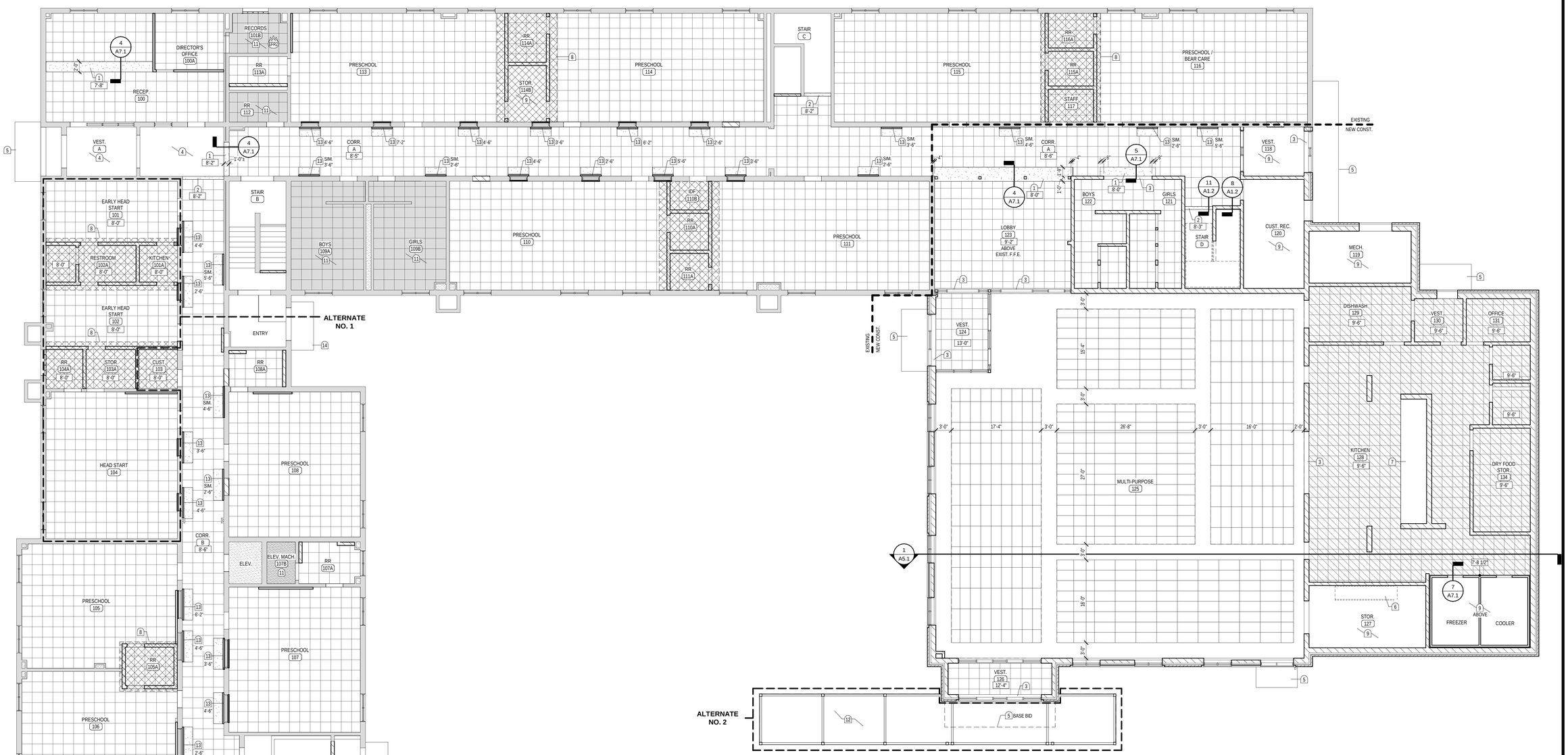
JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

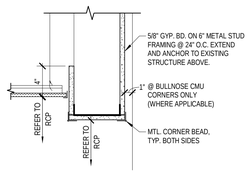
No.	Description	Date

SHEET

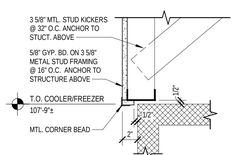
A6.1



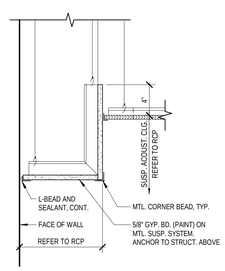
1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



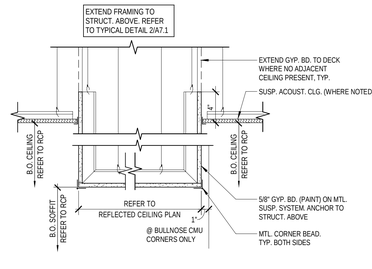
6 DETAIL
1 1/2" = 1'-0"



7 DETAIL
1 1/2" = 1'-0"

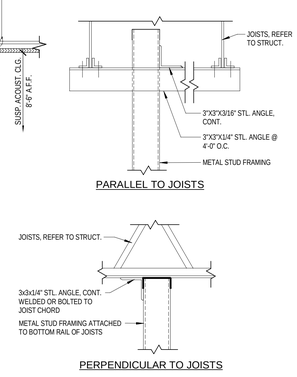


5 SOFFIT DETAIL
1 1/2" = 1'-0"



4 SOFFIT DETAIL
1 1/2" = 1'-0"

3 SOFFIT DETAIL
1 1/2" = 1'-0"



2 TYPICAL SOFFIT SUPPORT
1 1/2" = 1'-0"

REFLECTED CEILING PLAN KEY NOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

1. INTERIOR GYP. BD. SOFFIT/ BULKHEAD, PAINT. REFER TO REFERENCED DETAIL.
2. INTERIOR GYP. BD. BULKHEAD, PAINT. REFER TO DETAIL 6/A7.1.
3. STEEL LINTEL/ BOND BEAM, PAINT EXPOSED STEEL LINTEL HOT-DIP GALVENIZE ALL EXTERIOR LINTELS PRIOR TO PAINTING.
4. PAINT ALL EXPOSED STRUCTURE, PIPES, CONDUIT, DUCTS., ETC. COLOR TO BE SELECTED BY ARCHITECT.
5. NEW PRE-ENGINEERED WALL HUNG ALUMINUM CANOPY. REFER TO ROOF PLAN.
6. INDUSTRIAL STAIR TO ROOF HATCH. REFER TO DETAIL 2/A5.1
7. MECHANICAL HOOD. REFER TO FOOD SERVICE DRAWINGS.
8. REMOVE EXISTING PLASTER CEILING ABOVE AS REQUIRED FOR NEW WORK.
9. EXPOSED STRUCTURE AND DECK, NO FINISH.
10. WALL OR LINTEL ABOVE CEILING. REFER TO STRUCT. DWGS.
11. NO NEW CEILING WORK.
12. PRE-FIN. ALUM. WALKWAY COVER (ALT. NO 2) . REFER TO ROOF PLAN.
13. GYP. BOARD PANELS ON BOTH SIDES OF EXISTING CLERESTORY WINDOWS AND SUSP. GYP. BD. CLG. REFER TO DETAIL 3/A7.1. CENTER PANEL ON WINDOW. HEIGHT ABOVE F.F.E. INDICATED ON PLAN THIS SHEET. PANELS TO BE 4'-0" WIDE IN CORR. A AND 6'-0" WIDE IN CORR. B. AT SIM. LOCATIONS, NO CLERESTORY IS PRESENT.
14. EXISTING CANOPY TO REMAIN.

GENERAL CEILING NOTES

A. ALL CEILINGS ARE 2'x2' SUSPENDED ACOUSTICAL CEILING TYPE 'A' , UNLESS NOTED OTHERWISE. REFER TO SPECS.

B. ALL CEILINGS ARE AT 8'-5" A.F.F. U.N.O. NOTE THAT EXISTING F.F.E. DIFFERS FROM NEW ADDITION F.F.E.

C. ALL CEILING HEIGHTS ARE CALCULATED ABOVE FINISH FLOOR IN THE ROOM INDICATED.

D. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR TYPE, SIZE AND OTHER REQUIREMENTS PERTAINING SPECIFICALLY TO THE REFLECTED CEILING PLANS.

E. INSTALL SPRINKLER HEADS IN THE CENTER OF CEILING PANELS.

F. INSTALL ALL SPRINKLER HEADS ON SWING ARM NIPPLES. SEE MECHANICAL DRAWINGSFOR MORE SPECIFIC REQUIREMENTS.

G. CONTRACTOR TO SUBMIT FULL COORDINATION DRAWINGS FOR ALL CEILING ITEMS INCLUDING JOIST SPACING /LIGHTING, HVAC LAYOUT AND FIRE PROTECTION SYSTEMS.

H. WHERE THE HEIGHT CHANGES IN LOBBY 123, CEILING HEIGHT NOTED IS ABOVE NEW. F.F.E.

REFLECTED CEILING LEGEND

X'-X"	CEILING HEIGHT, A.F.F.
	2'x2' SUSPENDED ACOUSTICAL CEILING TYPE 'A' , REFER TO SPECS.
	2'x2' SUSPENDED ACOUSTICAL CEILING TYPE 'B' , REFER TO SPECS.
	2'x4' SUSPENDED ACOUSTICAL CEILING TYPE 'C', REFER TO SPECS.
	GYP. BD. CEILING OR SOFFIT, PAINT.
	EXISTING CEILING TO REMAIN, PROTECT DURING CONSTRUCTION

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

FIRST FLOOR REFLECTED CEILING PLAN AND DETAILS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

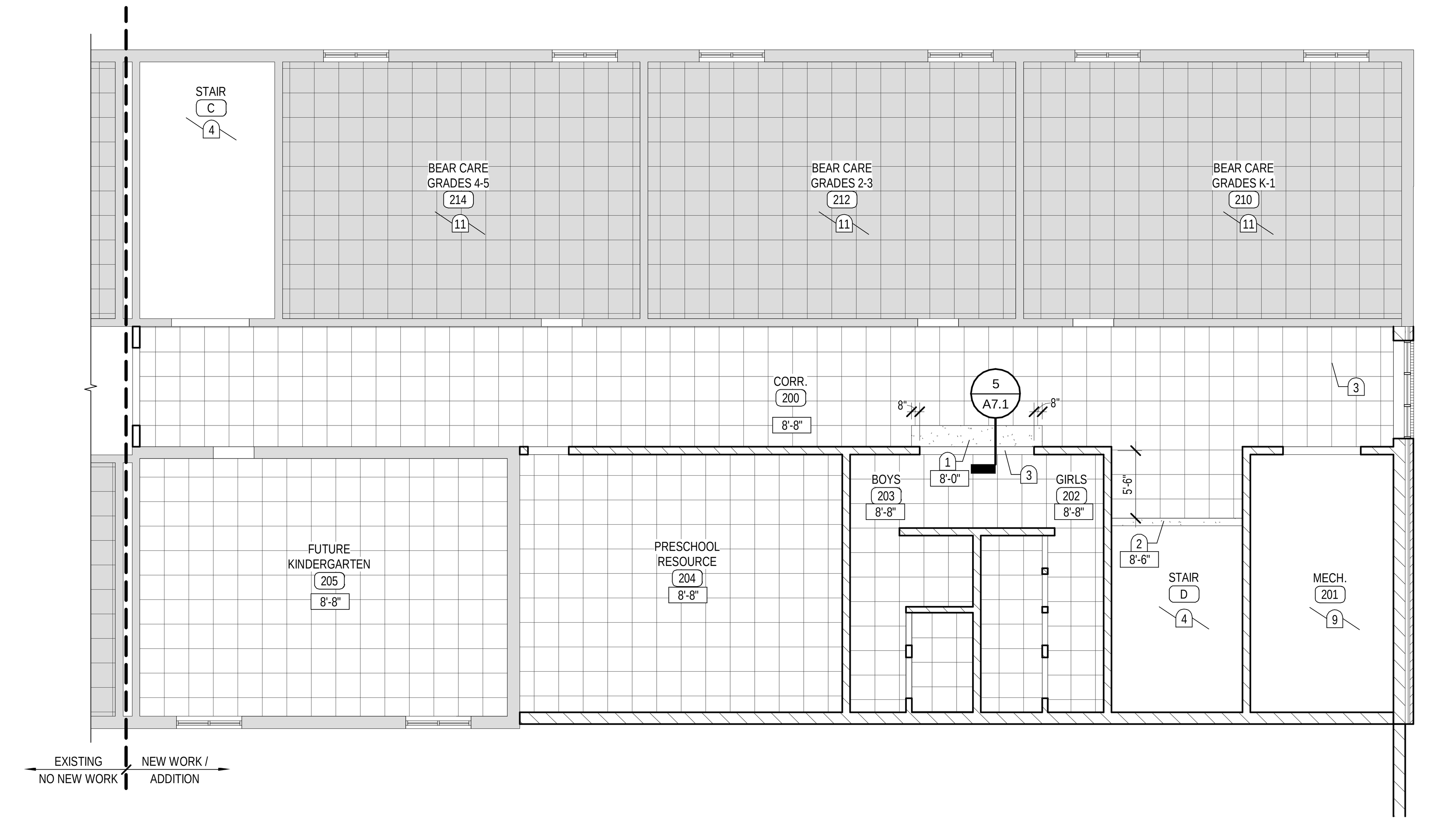
REVISIONS

No.	Description	Date

SHEET

A7.1

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:48:56 AM



1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN KEY NOTES

NOTE: ALL NOTES MAY NOT APPLY TO THIS SHEET.

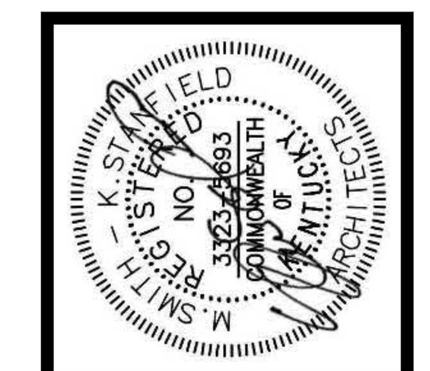
1. INTERIOR GYP. BD. SOFFIT/ BULKHEAD, PAINT. REFER TO REFERENCED DETAIL.
2. INTERIOR GYP. BD. BULKHEAD, PAINT. REFER TO DETAIL 6/A7.1.
3. STEEL LINTEL/ BOND BEAM, PAINT EXPOSED STEEL LINTEL HOT-DIP GALVENIZE ALL EXTERIOR LINTELS PRIOR TO PAINTING.
4. PAINT ALL EXPOSED STRUCTURE, PIPES, CONDUIT, DUCTS., ETC. COLOR TO BE SELECTED BY ARCHITECT.
5. NEW PRE-ENGINEERED WALL HUNG ALUMINUM CANOPY. REFER TO ROOF PLAN.
6. INDUSTRIAL STAIR TO ROOF HATCH. REFER TO DETAIL 2/A5.1
7. MECHANICAL HOOD, REFER TO FOOD SERVICE DRAWINGS.
8. REMOVE EXISTING PLASTER CEILING ABOVE AS REQUIRED FOR NEW WORK.
9. EXPOSED STRUCTURE AND DECK, NO FINISH.
10. WALL OR LINTEL ABOVE CEILING. REFER TO STRUCT. DWGS.
11. NO NEW CEILING WORK.
12. PRE-FIN. ALUM. WALKWAY COVER (ALT. NO 2) . REFER TO ROOF PLAN.
13. GYP. BOARD PANELS ON BOTH SIDES OF EXISTING CLERESTORY WINDOWS AND SUSP. GYP. BD. CLG. REFER TO DETAIL 3/A7.1. CENTER PANEL ON WINDOW. HEIGHT ABOVE F.F.E. INDICATED ON PLAN THIS SHEET. PANELS TO BE 4'-0" WIDE IN CORR. A AND 6'-0" WIDE IN CORR. B. AT SIM. LOCATIONS, NO CLERESTORY IS PRESENT.
14. EXISTING CANOPY TO REMAIN.

GENERAL CEILING NOTES

A. ALL CEILINGS ARE 2'x2' SUSPENDED ACOUSTICAL CEILING TYPE 'A' , UNLESS NOTED OTHERWISE. REFER TO SPECS.
B. ALL CEILINGS ARE AT 8'-5" A.F.F. U.N.O. NOTE THAT EXISTING F.F.E. DIFFERS FROM NEW ADDITION F.F.E.
C. ALL CEILING HEIGHTS ARE CALCULATED ABOVE FINISH FLOOR IN THE ROOM INDICATED.
D. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR TYPE, SIZE AND OTHER REQUIREMENTS PERTAINING SPECIFICALLY TO THE REFLECTED CEILING PLANS.
E. INSTALL SPRINKLER HEADS IN THE CENTER OF CEILING PANELS.
F. INSTALL ALL SPRINKLER HEADS ON SWING ARM NIPPLES. SEE MECHANICAL DRAWINGSFOR MORE SPECIFIC REQUIREMENTS.
G. CONTRACTOR TO SUBMIT FULL COORDINATION DRAWINGS FOR ALL CEILING ITEMS INCLUDING JOIST SPACING /LIGHTING, HVAC LAYOUT AND FIRE PROTECTION SYSTEMS.
H. WHERE THE HEIGHT CHANGES IN LOBBY 123, CEILING HEIGHT NOTED IS ABOVE NEW. F.F.E.

REFLECTED CEILING LEGEND

X'-X"	CEILING HEIGHT, A.F.F.
	2'x2' SUSPENDED ACOUSTICAL CEILING TYPE 'A' , REFER TO SPECS.
	2'x2' SUSPENDED ACOUSTICAL CEILING TYPE 'B' , REFER TO SPECS.
	2'x4' SUSPENDED ACOUSTICAL CEILING TYPE 'C', REFER TO SPECS.
	GYP. BD. CEILING OR SOFFIT, PAINT.
	EXISTING CEILING TO REMAIN, PROTECT DURING CONSTRUCTION



SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

SECOND FLOOR REFLECTED CEILING PLAN

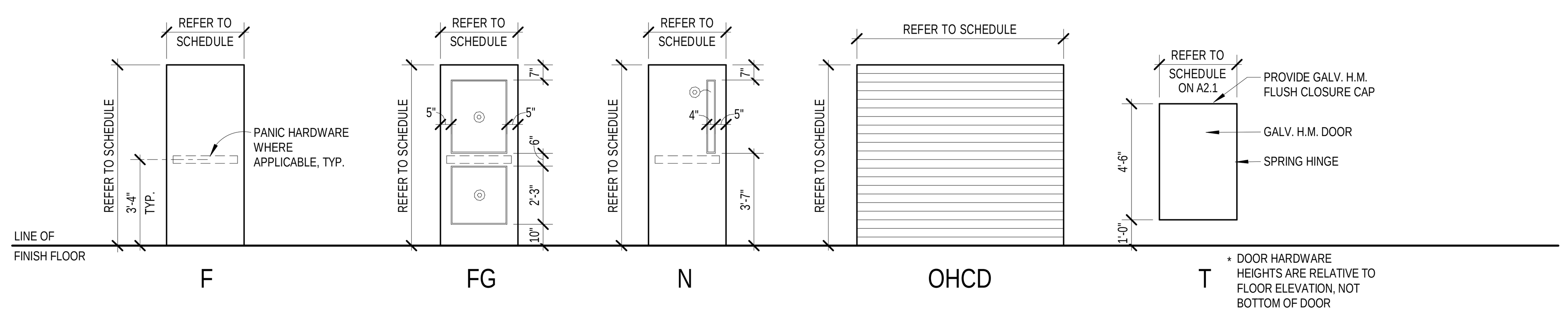
JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

No.	Description	Date

SHEET
A7.2

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:48:58 AM



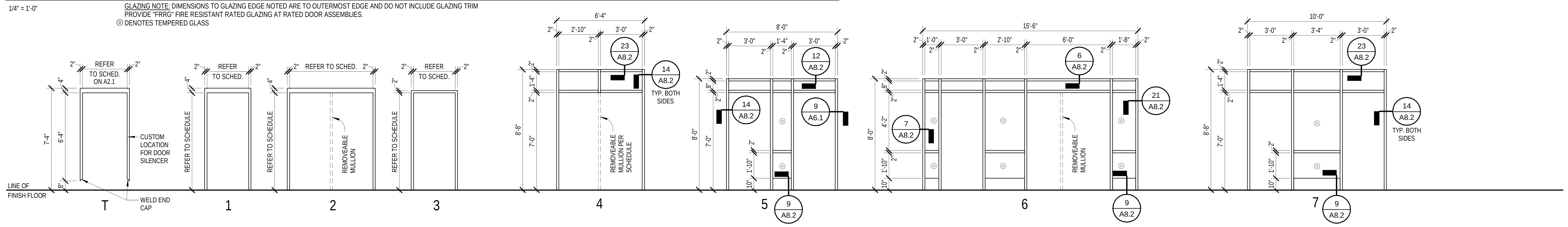
DOOR TYPES

1/4" = 1'-0"

DOOR DIMENSIONS: DIMENSIONS NOTED ARE MINIMUM SIZES TO FACILITATE AND/OR CONCEAL PROJECT SPECIFIC HARDWARE, MFR. STANDARD DIMENSIONS WHICH NOMINALLY EXCEED THE MINIMUMS ARE ACCEPTABLE SUBJECT TO ARCHITECT REVIEW.

GLAZING NOTE: DIMENSIONS TO GLAZING EDGE NOTED ARE TO OUTERMOST EDGE AND DO NOT INCLUDE GLAZING TRIM PROVIDE "FRRG" FIRE RESISTANT RATED GLAZING AT RATED DOOR ASSEMBLIES.

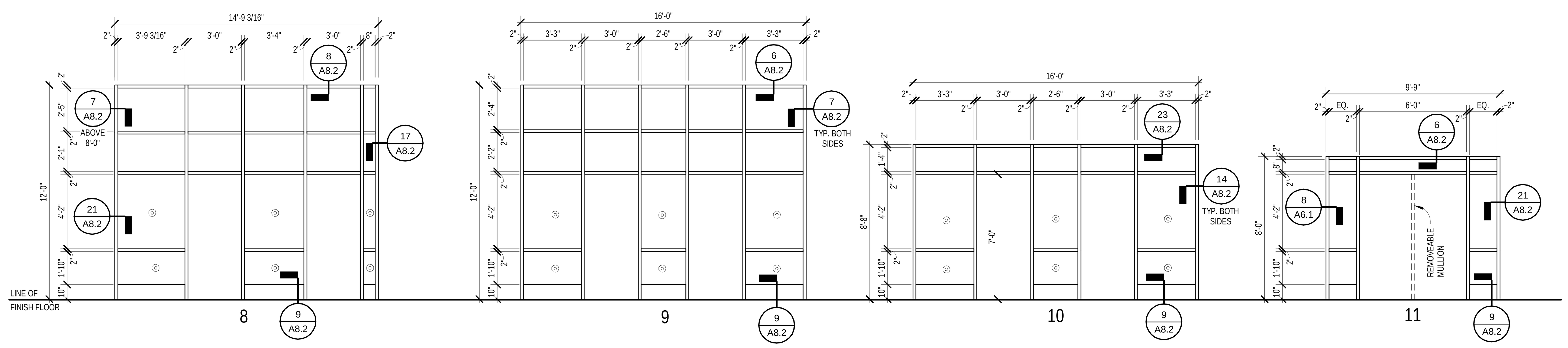
⊛ DENOTES TEMPERED GLASS



DOOR FRAME TYPES

1/4" = 1'-0" ALL EXTERIOR GLAZING SHALL BE 1" INSULATED, U.N.O.

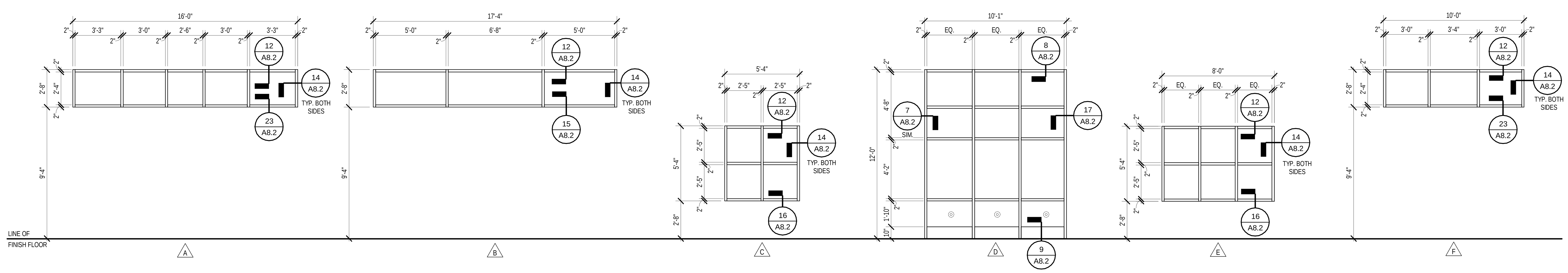
⊛ DENOTES TEMPERED GLASS



DOOR FRAME TYPES

1/4" = 1'-0" ALL EXTERIOR GLAZING SHALL BE 1" INSULATED, U.N.O.

⊛ DENOTES TEMPERED GLASS



ALUMINUM CURTAIN WALL FRAME TYPES

1/4" = 1'-0" ALL EXTERIOR GLAZING SHALL BE 1" INSULATED, U.N.O.

⊛ DENOTES TEMPERED GLASS

EXTERIOR DOOR SCHEDULE (BASE BID)

NO.	DOOR LEAVES	DOOR LEAF W.	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FRAME HEAD	FRAME JAMB	RATING	CLOSER°	REMARKS
E118A	1	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	5	1" INSUL.	SEE FRAME	SEE FRAME	-	105	6, 7, 8, 9
E118B	1	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	5	1" INSUL.	SEE FRAME	SEE FRAME	-	105	6, 7, 9
E119	2	3' - 0"	7' - 0"	HM	F	-	HM	2	-	10/A8.2	11/A8.2	-	105	1, 2, 10
E120	1	3' - 8"	7' - 0"	HM	F	-	HM	1	-	10/A8.2	11/A8.2	-	90	1, 10
E124A	1	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	7	1" INSUL.	SEE FRAME	SEE FRAME	-	105	6, 7, 9
E124B	1	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	7	1" INSUL.	SEE FRAME	SEE FRAME	-	105	6, 7, 9
E125	2	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	4	1" INSUL.	SEE FRAME	SEE FRAME	-	105	6, 7, 9
E126A	1	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	10	1" INSUL.	SEE FRAME	SEE FRAME	-	135	6, 7, 9
E126B	1	3' - 0"	7' - 0"	ALUM	FG	1" INSUL.	ALUM	10	1" INSUL.	SEE FRAME	SEE FRAME	-	135	6, 7, 9
E130	1	3' - 8"	7' - 0"	HM	N	1" INSUL.	HM	1	-	10/A8.2	11/A8.2	-	90	1, 9, 10, 12

FIRST FLOOR DOOR SCHEDULE (BASE BID)

NO.	DOOR LEAVES	DOOR LEAF W.	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FRAME HEAD (REFER TO A8.2 FOR TYPICAL DETAILS U.N.O.)	FRAME JAMB (REFER TO A8.2 FOR TYPICAL DETAILS U.N.O.)	RATING	CLOSER°	REMARKS
100	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	EXIST.	EXIST.	-			-	90	11, 13
100A	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	3	-			-	-	14
100B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	B90	90	15
103	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	-	-	15
105	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
105A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	90	3, 14
105B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	13
106	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
106A	2	3' - 0"	7' - 0"	-	-	-	HM	2	-					17
107	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
107A	1	3' - 0"	7' - 0"	EXIST	-	-	EXIST	EXIST.	-			-	-	16
108	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
108A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	-	-	15
110	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
110A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
110B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	-	-	15
111	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
111A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
112B	2	3' - 0"	7' - 0"	-	-	-	HM	2	-	22/A8.2	22/A8.2	-	-	17
113	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
113A	1	3' - 0"	7' - 0"	EXIST.	-	-	EXIST.	-	-			-	-	16
113B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	14
114	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
114A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
114B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	14
115	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
115A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
116	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
116A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
117	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	-	90	14, 15
118A	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	5	1/4"			-	90	6, 7, 9
118B	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	5	1/4"			-	90	6, 7, 9
120	1	3' - 8"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
124A	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	8	1/4"	SEE FRAME	SEE FRAME	-	90	6, 7, 9
124B	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	8	1/4"	SEE FRAME	SEE FRAME	-	90	6, 7, 9
124C	2	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	11	1/4"	SEE FRAME	SEE FRAME	-	105	2, 6, 7, 9
125A	2	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	6	1/4"	SEE FRAME	SEE FRAME	-	-	2, 6, 7, 9, 10
125B	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	6	1/4"	SEE FRAME	SEE FRAME	-	105	6, 7, 9, 10
126A	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	9	1/4"	SEE FRAME	SEE FRAME	-	135	6, 7, 9
126B	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	9	1/4"	SEE FRAME	SEE FRAME	-	135	6, 7, 9
127	2	3' - 0"	7' - 0"	SCWD	F	-	HM	2	-	18/A8.2	19/A8.2	-	-	5, 18
128A	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-	18/A8.2	19/A8.2	-	-	13, 18
128B		12' - 0"	7' - 4"	STL	OGCD	-	STL	MFR	-	20/A8.2	20/A8.2	-	-	4, 7
128C	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-	18/A8.2	19/A8.2	-	-	18
129		5' - 4"	7' - 4"	STL	OGCD	-	STL	MFR	-	20/A8.2	20/A8.2	-	-	4, 7
130A	1	3' - 8"	7' - 0"	SCWD	N	1/4"	HM	1	-			-	90	10
130B	1	3' - 8"	7' - 0"	SCWD	N	1/4"	HM	1	-			-	90	9, 10
131	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-			-	-	
132	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	90	
133	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	
134	1	3' - 8"	7' - 0"	SCWD	F	-	HM	1	-			-	-	

SECOND FLOOR DOOR SCHEDULE (BASE BID)

NO.	DOOR LEAVES	DOOR LEAF W.	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FRAME HEAD (REFER TO A8.2 FOR TYPICAL DETAILS)	FRAME JAMB (REFER TO A8.2 FOR TYPICAL DETAILS)	RATING	CLOSER°	REMARKS
200	2	3' - 0"	7' - 0"	SCWD	F	-	HM	3	-			-	105	2, 9
200A	2	3' - 0"	7' - 0"	-	-	-	HM	2						
201	2	3' - 0"	7' - 0"	SCWD	F	-	HM	2	-			-	-	5
204	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-			-	-	

FIRST FLOOR DOOR SCHEDULE (ALT. NO. 1)

NO.	DOOR LEAVES	DOOR LEAF W.	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FRAME HEAD (REFER TO A8.2 FOR TYPICAL DETAILS)	FRAME JAMB (REFER TO A8.2 FOR TYPICAL DETAILS)	RATING	CLOSER°	REMARKS
101	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	90	11, 14
101A	1	3' - 0"	3' - 6"	SCWD	N	1/4"	HM	1	-			-	-	19
101B	1	3' - 0"	3' - 6"	SCWD	N	1/4"	HM	1	-			-	-	19
102	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-	22/A8.2	22/A8.2	-	-	14, 15
102A	1	3' - 0"	3' - 6"	SCWD	F	-	HM	1	-			-	-	19
102B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	14
102C	1	3' - 0"	3' - 6"	SCWD	F	-	HM	1	-			-	-	19
103A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-			-	-	14
103B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	-	-	14, 15
104	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST.	EXIST.	-			-	-	11
104A	1	3' - 0"	3' - 6"	SCWD	F	-	HM	1	-	22/A8.2	22/A8.2	-	-	15, 19

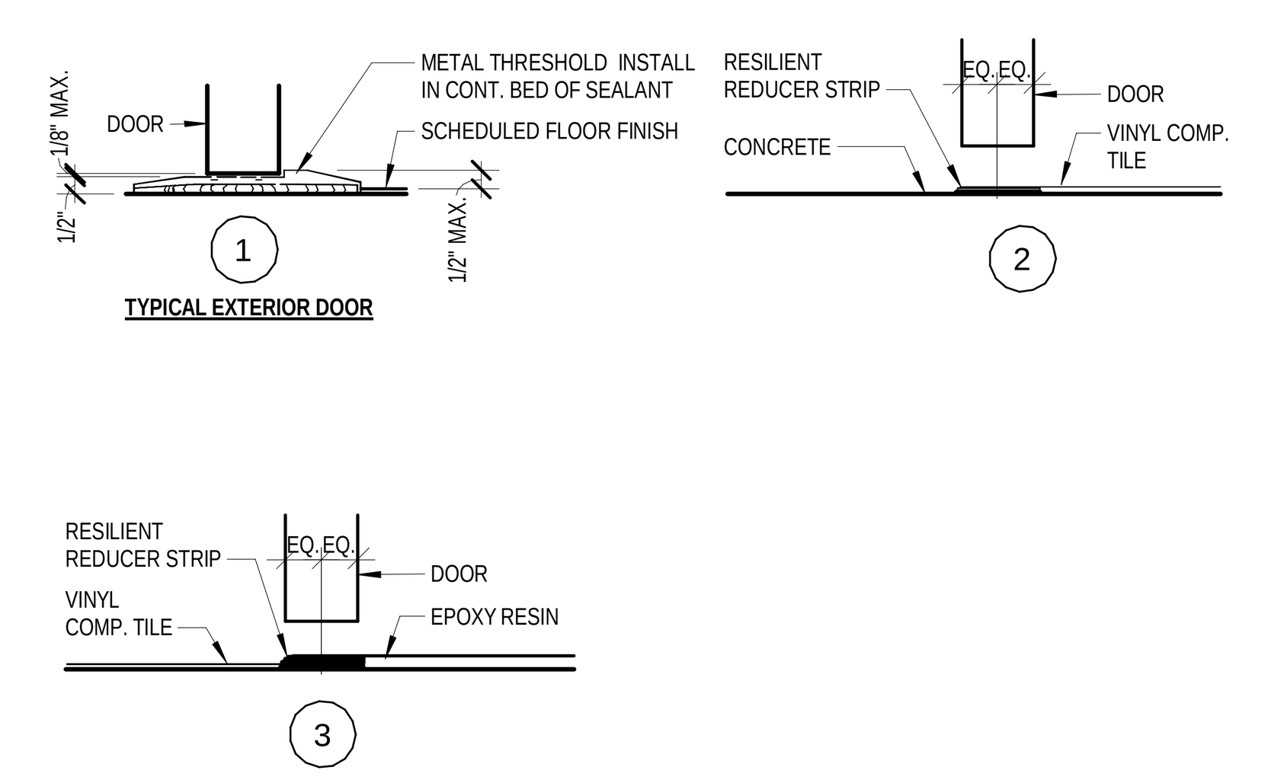
DOOR SCHEDULE REMARKS:

1. GALVANIZED INSUL. HOLLOW METAL DOOR AND FRAME
2. REMOVABLE MULLION, TO MATCH FRAME FINISH
3. MANUAL HOLD OPEN DEVICES
4. MANUAL OPERATION
5. ONE LEAF FLUSH BOLTS
6. PROVIDE STL. PLATE REINF. WITHIN ALUM FRAME FOR ANCHORAGE OF HARDWARE.
7. PROVIDE MFR STANDARD DETAILS @ DOORS & FRAMES.
8. ELECTRONIC HARDWARE AND BUZZER. PROVIDE DOOR RELEASE OPERATOR AT RECEPTIONIST COUNTER AND CLASSROOM 116
9. EXIT DEVICE, REFER TO SPECS.
10. HOLD OPEN OPTION ON CLOSER
11. NEW 180° DOOR IN EXISTING HM FRAME, PATCH FRAME AS REQUIRED.
12. ELECTRONIC HARDWARE, BUZZER AND PEEP HOLE.
13. NEW DOOR ON EXISTING HM FRAME, PATCH FRAME AS REQUIRED.
14. PROVIDE SOUND SEALS. REFER TO DOOR HARDWARE SPEC.
15. NEW DOOR AND FRAME IN EXISTING CMU WALL.
16. EXISTING DOOR AND FRAME TO REMAIN. PROVIDE NEW HARDWARE.
17. FRAME ONLY
18. 180° SWING.
19. DUTCH DOOR WITH BOTTOM HALF ONLY. REFER TO DOOR HARDWARE SPECIFICATIONS.

TYPICAL THRESHOLD CONDITIONS

GENERAL THRESHOLD NOTES:

1. REFER TO ROOM FINISH GROUPS AND FLOOR PLANS FOR FINISHES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE PROPER THRESHOLD IS USED.
2. PROVIDE RESILIENT TRANSITION STRIPS OR REDUCERS BETWEEN ALL DIFFERING FLOOR FINISH MATERIALS.
3. PROVIDE STRIP OR REDUCER PROFILE AS RECOMMENDED BY MANUFACTURER FOR APPLICATION.



GENERAL DOOR AND FRAME NOTES:

GENERAL DOOR NOTES:

A. UNDERCUT AT NON-RATED S.C. WOOD DOORS: 1/2" FROM BOTTOM OF DOOR TO SCHEDULED FLOOR FINISH. 1/8" MAX. FROM BOTTOM OF DOOR TO TOP OF THRESHOLD AT EXTERIOR DOORS. DOOR MUST COMPRESS WEATHERSTRIP IN THRESHOLD.

B. WOOD DOORS SHALL BE 1 3/4" THICK AND SPECIFIED SOLID CORE WOOD CONSTRUCTION. REFER TO DOOR SCHEDULE FOR TYPE.

C. PROVIDE THRESHOLDS AS REQ'D AT DOORS. SEE TYPICAL DETAILS ON SHEET A8.1.

D. ALL EXTERIOR DOORS/FRAMES TO BE INSULATED.

E. ALL GLAZING & GLAZING STOPS IN H.M. FRAMES ARE TO BE INSTALLED AT SECURE SIDE OF INT. FRAMES AND INTERIOR SIDE OF ALL EXTERIOR FRAMES.

GENERAL HARDWARE NOTE:

A. PROVIDE AND INSTALL ALL HARDWARE IN ACCORDANCE WITH APPLICABLE ARTICLES OF "THE AMERICANS WITH DISABILITIES ACT (ADA)".

B. HARDWARE CLOSERS ON SCHEDULE NOTED FOR BUILDING CODE AND KDE REQUIREMENTS. REFER TO HARDWARE SPECIFICATION FOR ADDITIONAL CLOSERS USED FOR HARDWARE FUNCTION.

GENERAL GLASS AND GLAZING NOTES:

A. PROVIDE FULLY TEMPERED GLASS WHERE INDICATED ON SCHEDULE AND/OR SHOWN ON DOOR AND FRAME TYPES, OR AS REQUIRED BY CODE.

GENERAL FRAME NOTES:

A. PROVIDE REINFORCING CHANNEL IN FRAME HEAD AT ALL H.M. FRAMES WHERE TOTAL FRAME WIDTH IS GREATER THAN 4 FT.

B. PROVIDE 11 GA. X 2" WIDE STRAPS AT 8" O.C. IN H.M. FRAME HEADS GREATER THAN 2" IN HEIGHT, TYPICAL.

C. FILL H.M. FRAME AND JAMB SOLID WITH CONC. GROUT, TYPICAL AT MASONRY WALLS.

D. PROVIDE MINIMUM THREE ANCHORS PER JAMB, TYPICAL AT MASONRY WALLS.

E. PROVIODE BACKER ROD AND SEALANT AT ALL JOINTS WITH MINIMUM 1/4" SEALANT BEAD CONTINUOUS WHERE FRAME MEETS OTHER WALL MATERIALS.

F. PROVIDE GALVANIZED STEEL FRAME AND LINTEL COMPONENTS AT ALL NON-ALUMINUM EXTERIOR OPENINGS, TYPICAL. FIELD PAINT.

G. LINTEL BEAM AND LINTEL ANGLE LENGTH SHALL BE M.O. PLUS 16" (MIN. 8" BEARING EACH END UNO.) LINTEL PLATE LENGTH SHALL BE M.O. LESS 1/4" (1/8" AT EACH END.)

H. WHERE GLAZING IN H.M. FRAMES IS SHOWN, THE FRAME FABRICATOR SHALL PRE-DRILL STOPS AND FRAME TO RECEIVE MOUNTING SCREWS. VERIFY LOCATION AND DEPTH OF GLAZING MATERIAL.

I. CONTRACTOR SHALL RAKE ALL MORTAR JOINTS 1/2" AT EXTERIOR STL. LINTEL BEARING LOCATIONS AND PROVIDE SEALANT TO MATCH MORTAR.

J. PROVIDE CONCEALED STEEL REINFORCEMENT AS REQUIRED BY FABRICATOR TO ACCOMMODATE WIND LOADING, OTHER STRUCTURAL CONSIDERATIONS, AND HARDWARE INSTALLATIONS, AND AS REQUIRED TO ACHIEVE INDICATED SYSTEM DEPTHS.

K. PROVIDE TOP CLOSER PLATE AT EXTERIOR H.M. DOORS.

GENERAL FRAME NOTES:

L. CONTRACTOR TO COORD. WORK WITH ASSOCIATED TRADES (FRAMING, MASONRY, ETC.) TO CONFIRM ALL DIMENSIONS.

M. ALL EXTERIOR GLAZING IS TO BE 1" INSULATED U.N.O.

N. CONTRACTOR TO PROVIDE ALL ACCESSORY ITEMS NECESSARY TO INSTALL FRAMES AND STOREFRONT.

P. ALL ALUMINUM FRAMES AND STOREFRONT SHALL HAVE EXTRUDED ALUMINUM SUB-SILL.

Q. PROVIDE RIGID INSULATION INSERTS IN PERIMETER FRAMES OF ALL ALUMINUM FRAMES AND STOREFRONTS. IN ADDITION, FILL ALL SHIM VOIDS AT EXTERIOR FRAME OPENINGS W/ FIRE RATED SPRAY FOAM INSULATION.

R. DO NOT BLOCK WEEPS W/ SEALANT

S. PAINTING OF ALL H.M. FRAMES AND DOORS IS BY OWNER (N.I.C.)

T. PAINT ALL EXPOSED STEEL LINTELS AT EXTERIOR WALLS. PAINTING OF ALL EXPOSED INTERIOR LINTELS IS BY OWNER (N.I.C.)

U. CONTRACTOR SHALL COORDINATE OPENINGS AND ASSOCIATED FRAMING TO CONFIRM ALL DIMENSIONS. INSTALLER/FABRICATOR SHALL ACCOUNT FOR SHIMS, DEFLECTION, ETC.

V. PROVIDE DEFLECTION TRACKS AS REQUIRED.

W. WHERE DOOR SWING CHANGES AND/OR OLD HARDWARE IS REMOVED, REPAIR FRAME TO RECEIVE PAINT BY OWNER.

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

DOOR SCHEDULES, ELEVATIONS & FRAME TYPES

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

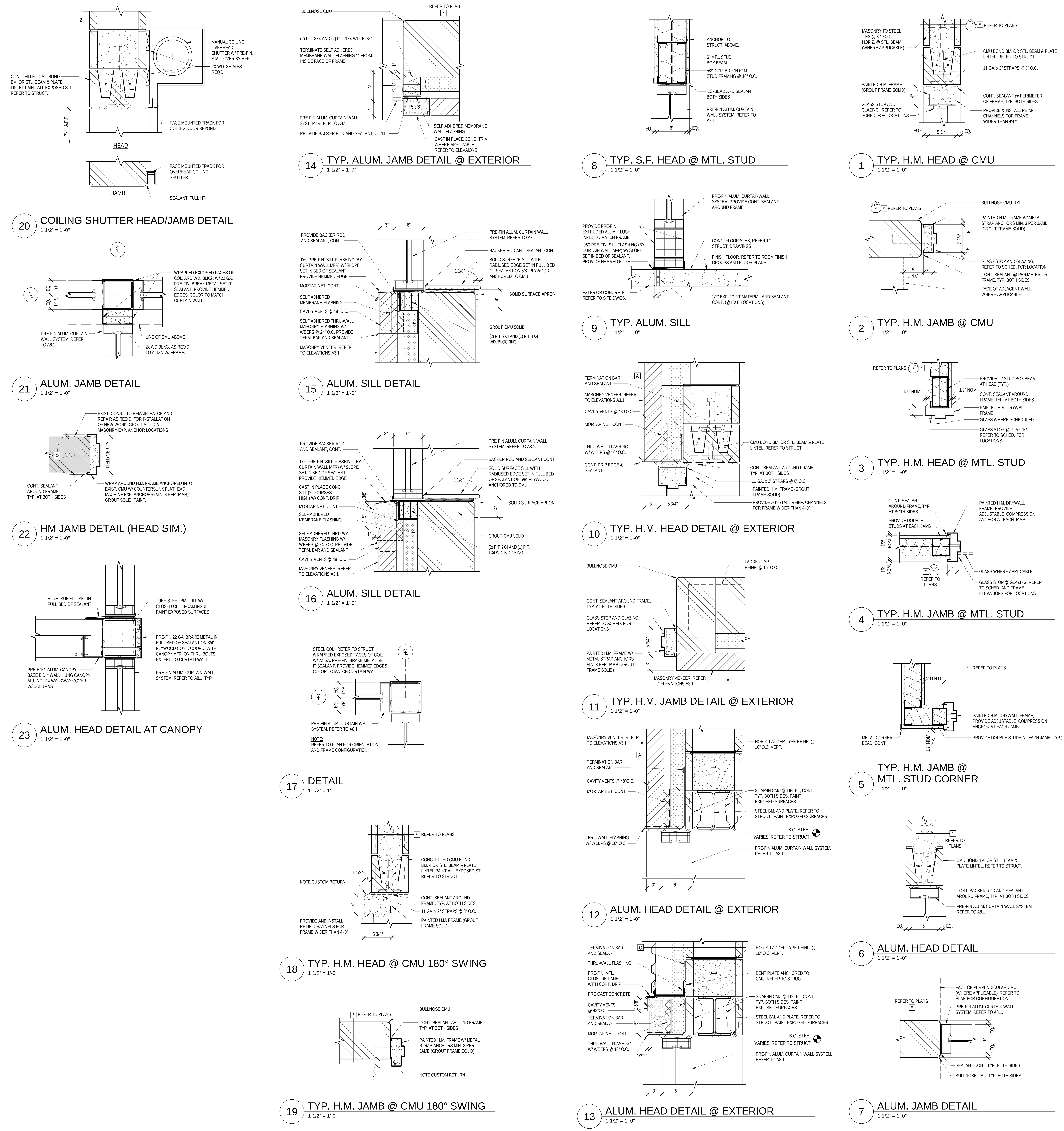
REVISIONS

No.	Description	Date

SHEET

A8.1

1933 SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION 12/16/2019 8:49:02 AM



SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

DOOR AND FRAME DETAILS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

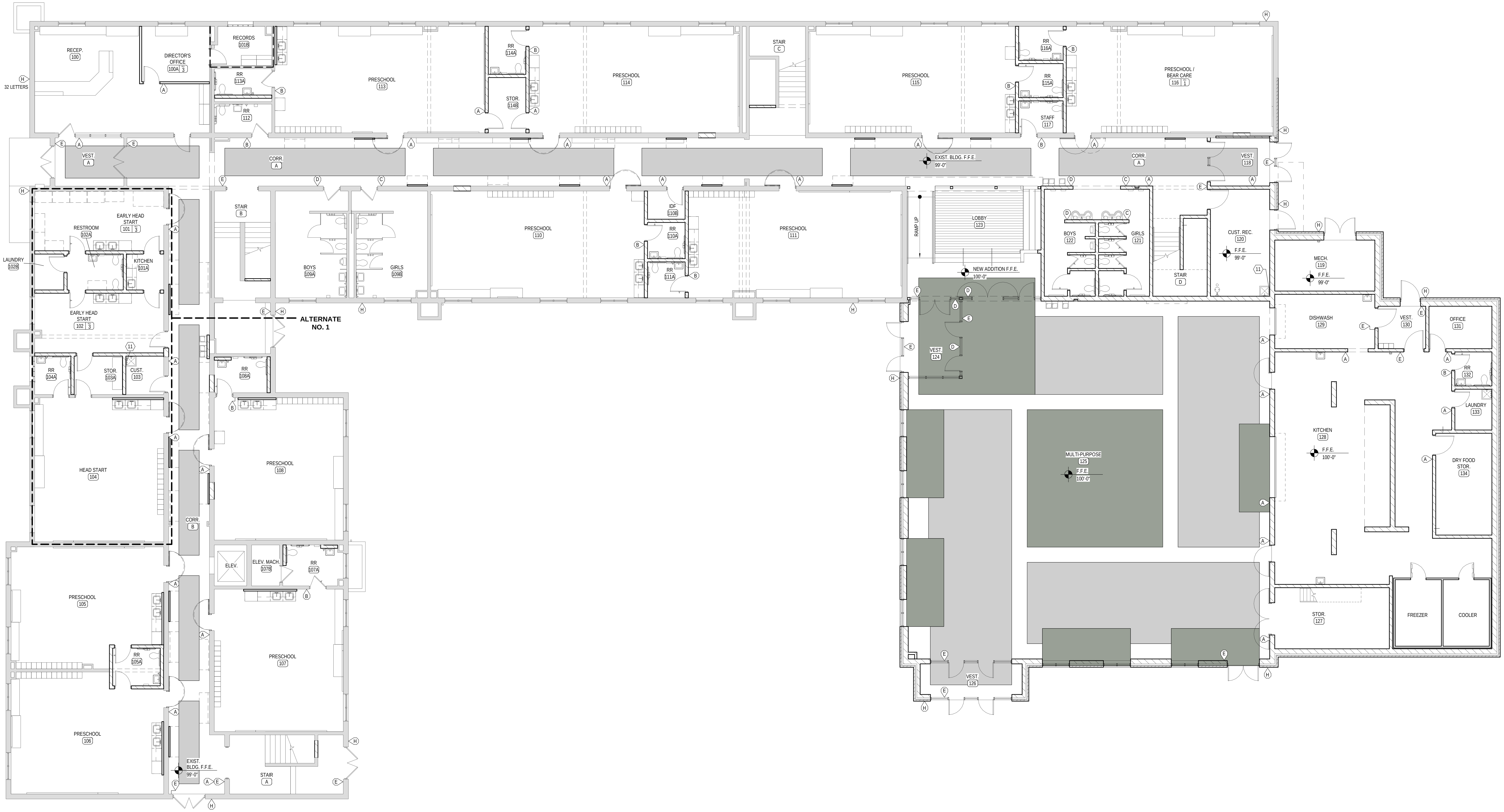
REVISIONS

No.	Description	Date

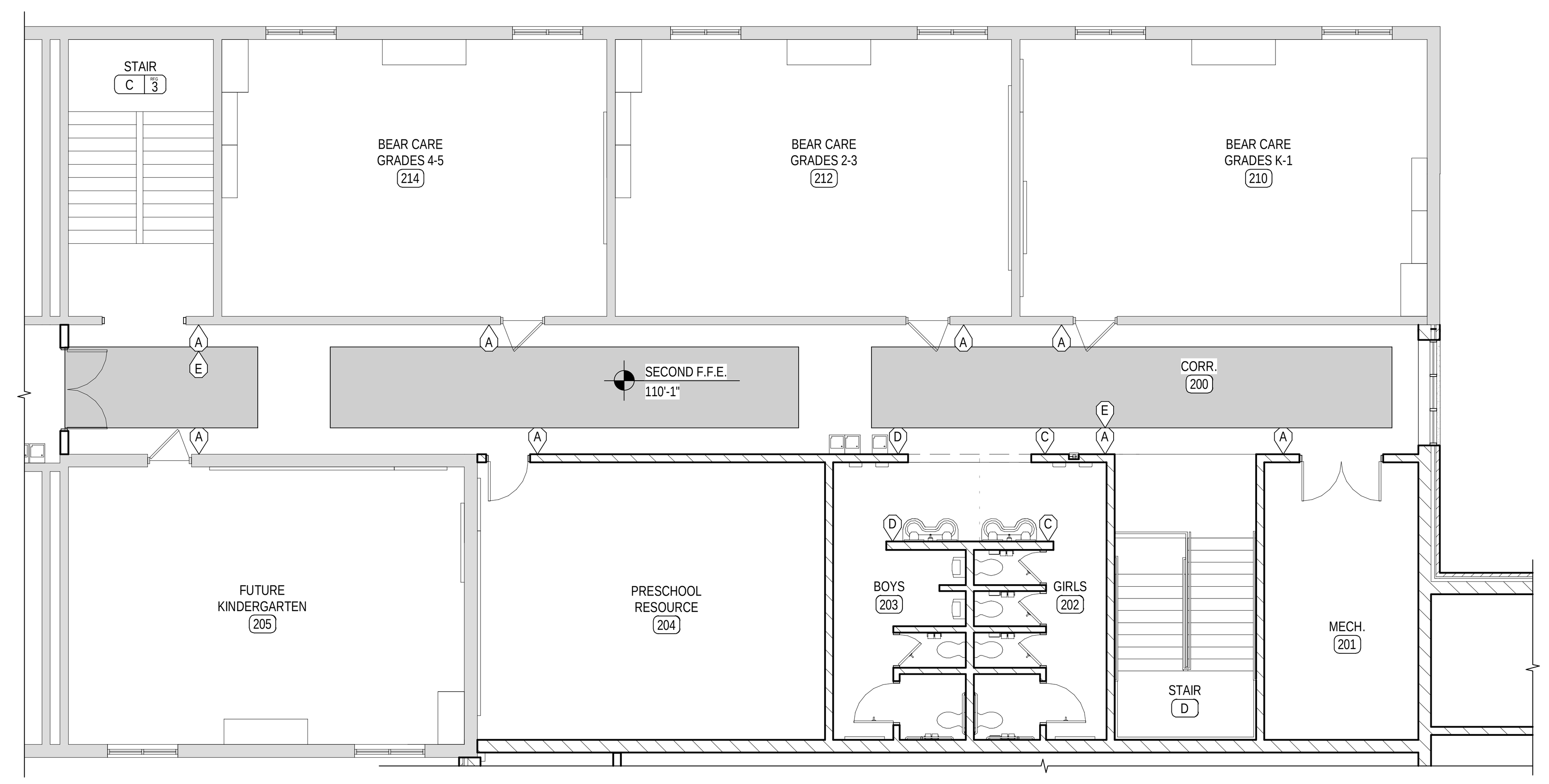
SHEET

A8.2

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:49:05 AM



1 FIRST FLOOR SIGNAGE AND FLOOR PATTERN PLAN
1/8" = 1'-0"



2 SECOND FLOOR SIGNAGE AND FLOOR PATTERN PLAN
1/8" = 1'-0"

NOTE:
FLOOR PATTERN INDICATES FLOOR FINISHES ONLY WHERE MULTIPLE COLORS, AND/OR PATTERNS ARE REQUIRED. REFER TO ROOM FINISH GROUPS, SHEET A0.1, FOR FLOOR FINISH LOCATIONS AND THOSE NOT INDICATED.

FLOOR PATTERN LEGEND

- VCT FIELD COLOR
- VCT ACCENT COLOR 1
- VCT ACCENT COLOR 2
- VCT ACCENT COLOR 3

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

FIRST AND SECOND FLOOR SIGNAGE AND FLOOR PATTERN PLANS

JOB NO.	1933
DATE	12/16/19
DRAWN	ALC
CHECKED	ASC, BKL

REVISIONS

No.	Description	Date

SHEET
A9.1

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
12/16/2019 8:49:10 AM

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	NOTES & COMMENTS
1	1	ICE MACHINE		1/2"	FD			115/1	9.05	PLUG	54"AFF				K.E.C.	K.E.C.		*	*	(10)
2	1	BAKER'S TABLE W/INGEDIENT BINS													K.E.C.	K.E.C.				(22)
3	1	MIXER – 30 QT.					1/2	208/1	5.7	PLUG	36"AFF				K.E.C.	K.E.C.			*	(10)
4	1	WORK TABLE													K.E.C.	K.E.C.				
5	1	HOT WATER DISPENSER	1/2"			5		208/1	24.0	PLUG	24"AFF				K.E.C.	K.E.C.		*		
6	5	HAND SINK													P.C.	P.C.		*		
7	1	PREP SINK	1/2"	1/2"	FS										K.E.C.	K.E.C.		*		
8	1	FOOD PROCESSOR					1/3	120/1	3.5	PLUG	48"AFF				K.E.C.	K.E.C.				
9	1	DISPOSER		1/2"	2"		1–1/4	208/3	3.7	DIR	48"AFF				K.E.C.	K.E.C.		*	*	(4)(5)
10		OPEN NUMBER																		
11	1 LOT	DUNNAGE RACKS – DRY STORAGE													K.E.C.	K.E.C.				
12	1 LOT	SHELVING – DRY STORAGE													K.E.C.	K.E.C.				
13	2 EA.	MOBILE CAN RACKS													K.E.C.	K.E.C.				
14	1	WALK–IN COOLER/FREEZER EXISTING						120/1 115/1 120/1	20 5 20	DIR PLUG PLUG	9'AFF 9'AFF 72"AFF				O.S.	K.E.C.			*	(1)(2)(3)(19)(20)
14A	1	BLOWER COIL – COOLER EXISTING			FD			115/1	1.8	DIR	86"AFF				O.S.	K.E.C.			*	(19)(20)
14B	1	CONDENSER – COOLER EXISTING						208/1	10.6	DIR	36" ABOVE GRADE				O.S.	K.E.C.			*	(19)(20)
14C	1	BLOWER COIL – FREEZER EXISTING			FD			208/1	14.35	DIR	86"AFF				O.S.	K.E.C.			*	(19)(20)
14D	1	CONDENSER – FREEZER EXISTING						208/1	16.4	DIR	36" ABOVE GRADE				O.S.	K.E.C.			*	(19)(20)
15	1 LOT	DUNNAGE RACKS – WALK–IN													K.E.C.	K.E.C.				
16	1 LOT	SHELVING – WALK–IN													K.E.C.	K.E.C.				
17	1	WORK TABLE													K.E.C.	K.E.C.				
18	1	SLICER					1/2	120/1	5.6	PLUG	48"AFF				K.E.C.	K.E.C.				
19	5	BUN PAN RACK													K.E.C.	K.E.C.				
20	1	WORK TABLE W/SINK & WALL SHELF	1/2"	1/2"	1–1/2"										K.E.C.	K.E.C.		*		
21	3	UTILITY CART													K.E.C.	K.E.C.				
22	1	HOOD SYSTEM						120/1	3.99	DIR	ABV CLNG				K.E.C.	K.E.C.			*	(6)(7)
	1	HOOD SYSTEM– EXHAUST AIR FAN					3	208/3		DIR	@BUILDING ROOF				K.E.C.	K.E.C.			*	(6)(8)
	1	HOOD SYSTEM – MAKE UP AIR FAN					3	208/3	20.7	DIR	@BUILDING ROOF				K.E.C.	K.E.C.			*	(6)(8)
	1	HOOD SYSTEM – MAKE UP AIR HEATER				97.5		208/3		DIR	@BUILDING ROOF				K.E.C.	K.E.C.			*	(6)
23A	2	COMBI OVEN – LOWER UNIT (1 FUTURE)		3/4"	FS	37		208/3	102.7	PLUG	24"AFF				K.E.C.	K.E.C.		*	*	(14)(21)(10)
23B	2	COMBI OVEN – UPPER UNIT (1 FUTURE)		3/4"	FS	22.1		208/3	61.4	PLUG	36"AFF				K.E.C.	K.E.C.		*	*	(14)(21)(10)
24	2	CONVECTION OVEN – DBL, STACK (1 FUTURE)				(2)15.15		(2)208/3	54 EA.	PLUG	24"/36"AFF				K.E.C.	K.E.C.			*	(21)(10)
25	1	KETTLE – 12 GAL. TILTING, W/STAND	1/2"	1/2"	FS	12.3		208/3	34.1	PLUG	24"AFF				K.E.C.	K.E.C.		*	*	(10)
26	1	KETTLE – 40 GAL. TILTING EXISTING	1/2"	1/2"	FT	14.7		208/3	40.9	DIR	24"AFF				O.S.	K.E.C.		*	*	(19)(20)
27	1	FLOOR TROUGH			4"										K.E.C.	B.O.		*		
28	2	HOSE REEL – 30 FT. (1 FUTURE)	1/2"	1/2"											K.E.C.	K.E.C.		*		(21)
29	3	SHELVING – POT AND PAN													K.E.C.	K.E.C.				
30	2	WORK TABLE W/ MICROWAVE SHELF (1 FUTURE)													K.E.C.	K.E.C.				
31	2	MICROWAVE OVEN (1 FUTURE)						120/1	13.0	PLUG	56"AFF				K.E.C.	K.E.C.				(21)
32	2	PASS–THROUGH HEAT & HOLD OVEN (1 FUTURE)				12		208/3	50A CIRCUIT	PLUG	PIGTAIL FROM CLNG				K.E.C.	K.E.C.			*	(11)(12)(21)
33	2	PASS THROUGH REFRIGERATOR (1 FUTURE)					1/3	115/1	9.8	PLUG	PIGTAIL FROM CLNG				K.E.C.	K.E.C.				(12)(21)
34	2	WORK TABLE (1 FUTURE)													K.E.C.	K.E.C.				
35	2	MILK COOLER (1 FUTURE)					1/4	115/1	3	PLUG	18"AFF				B.V.	B.V.				(18)(21)
36	2	SOLID TOP TABLE (1 FUTURE)													K.E.C.	K.E.C.				
37	2	REFRIGERATED COLD FOOD TABLE (1 FUTURE)			FD		1/3	120/1	7.6	PLUG	5"AFF				K.E.C.	K.E.C.				(21)
38	2	HOT FOOD TABLE (1 FUTURE)			FD			120/208/1	14.4	PLUG	5"AFF				K.E.C.	K.E.C.			*	(21)
39	2	CASHIER STATION (1 FUTURE)						120/1	20	PLUG	5"AFF				K.E.C.	K.E.C.				(16)(17)(21)
40	2	POS SYSTEM (1 FUTURE)						120/1	12	PLUG					B.O.	B.O.				(21)
41	2	TRAY CART													K.E.C.	K.E.C.				
42		OPEN NUMBER																		
43	1	TWO COMPARTMENT WASH SINK	1/2"	1/2"	FS										K.E.C.	K.E.C.		*		
44	1	DISPOSER		1/2"	2"		2	208/3	6	DIR	18"AFF				K.E.C.	K.E.C.		*	*	(13)
45	1	HOSE REEL – 30 FT.	1/2"	1/2"											K.E.C.	K.E.C.		*		
46	1	POT, PAN, & UTENSIL WASHER	3/4"	1/2"	FS			208/3 120/1	47.6 20	DIR	65"AFF 18"AFF				K.E.C.	K.E.C.		*	*	(9)(14)(15)
47	1	CONDENSATE HOOD					1/2	120/1		DIR	@BUILDING ROOF				K.E.C.	K.E.C.			*	(6)(15)
48	1	THREE COMPARTMENT SINK W/POT RACK	(2)1/2"	(2)1/2"	2"										K.E.C.	K.E.C.		*		

ⓧ NOTES

1. 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.
2. 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.
3. 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.
4. P.C. TO BRANCH WATER SUPPLY TO THIS ITEM FROM PREP–SINK WATER SUPPLY.
5. K.E.C. TO INTER–WIRE TO SOLENOID & DISPOSER FROM CONTROL PANEL.
6. SEE WRITTEN SPECIFICATIONS AND HOOD PLANS FOR SERVICE REQUIREMENTS AND WORK TO BE PROVIDED BY GENERAL, STRUCTURAL, ROOFING, ELECTRICAL, PLUMBING, AND MECHANICAL CONTRACTORS.
7. E.C. O PROVIDE 120V 1PH 3.99 AMP ELECTRICAL CONNECTION FOR HOOD LIGHTS TO J–BOX ON TOP OF HOOD CANOPY.
8. EXHAUST AND MAKE–UP AIR FANS POWER SUPPLY SHALL BE COMBINED TO A 208V 3PH 20.7A SINGLE POINT CONNECTION LOCATED ON THE SIDE OF THE MAKE–UP AIR UNIT. SEE HOOD PLANS FOR EXACT LOCATION AND DETAILS.
9. WATER PRESSURE TO BE 15 PSI MINIMUM, 65 PSI MAXIMUM.
10. E.C. TO PROVIDE CORD AND PLUG.
11. HOLDING UNIT WILL BE SHIPPED WITH CORD, TWIST LOCK MALE AND FEMALE PLUGS. E.C. TO DROP SUPPLY LINE FROM CEILING TO JUST ABOVE HOLDING UNIT AND MOUNT FEMALE TWIST LOCK PLUG.
12. ON ISLAND UNITS – E.C. TO PIGTAIL DUPLEX RECEPTACLE FROM CEILING TO 6" ABOVE TOP OF EQUIPMENT.
13. P.C. TO BRANCH WATER SUPPLY FOR THIS ITEM FROM DISH ROOM HOSE REEL.
14. K.E.C. RESPONSIBLE FOR INSTALLING DRAIN LINE & DRAIN WATER TEMPERING KIT. E.C. RESPONSIBLE FOR COMPLETE WIRING OF DRAIN WATER TEMPERING KIT. P.C. RESPONSIBLE FOR CONNECTING COLD WATER TO DRAIN WATER TEMPERING KIT PER MANUFACTURER INSTRUCTIONS.
15. E.C. TO PROVIDE CONDUIT FROM ABOVE CEILING TO 68" AFF. FOR CONDENSATE FAN CONTROL WIRING. E.C. TO INTER–WIRE CONDENSATE FAN CONTROL WIRING FROM FAN TO CONTROL PANEL LOCATED ON DISH MACHINE.
16. P.O.S. TO PLUG INTO OUTLET INCLUDED IN CASHIER STATION.
17. DEDICATED CIRCUIT REQUIRED AT ELECTRICAL PANEL FOR P.O.S. SYSTEM.
18. VENDOR PROVIDED ITEM. SPECIFICATIONS ARE THOSE OF EQUIPMENT COMMONLY FURNISHED FOR THIS APPLICATION. ELECTRICAL, PLUMBING, AND MECHANICAL CONTRACTORS TO VERIFY CONNECTION REQUIREMENTS WITH VENDOR.
19. EXISTING EQUIPMENT – K.E.C. TO RELOCATE AS SHOWN ON KITCHEN EQUIPMENT FLOOR PLAN.
20. EXISTING EQUIPMENT – K.E.C., E.C., AND P.C. TO VERIFY CONNECTION REQUIREMENTS BEFORE BIDDING.
21. PROVIDE UTILITY CONNECTIONS SHOWN, ON SCHEDULE, FOR FUTURE ADDITION OF THIS ITEM.
22. OUTLET BEHIND BAKER'S TABLE MUST BE MOUNTED AT 46"AFF TO TOP OF RECEPTACLE.

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.

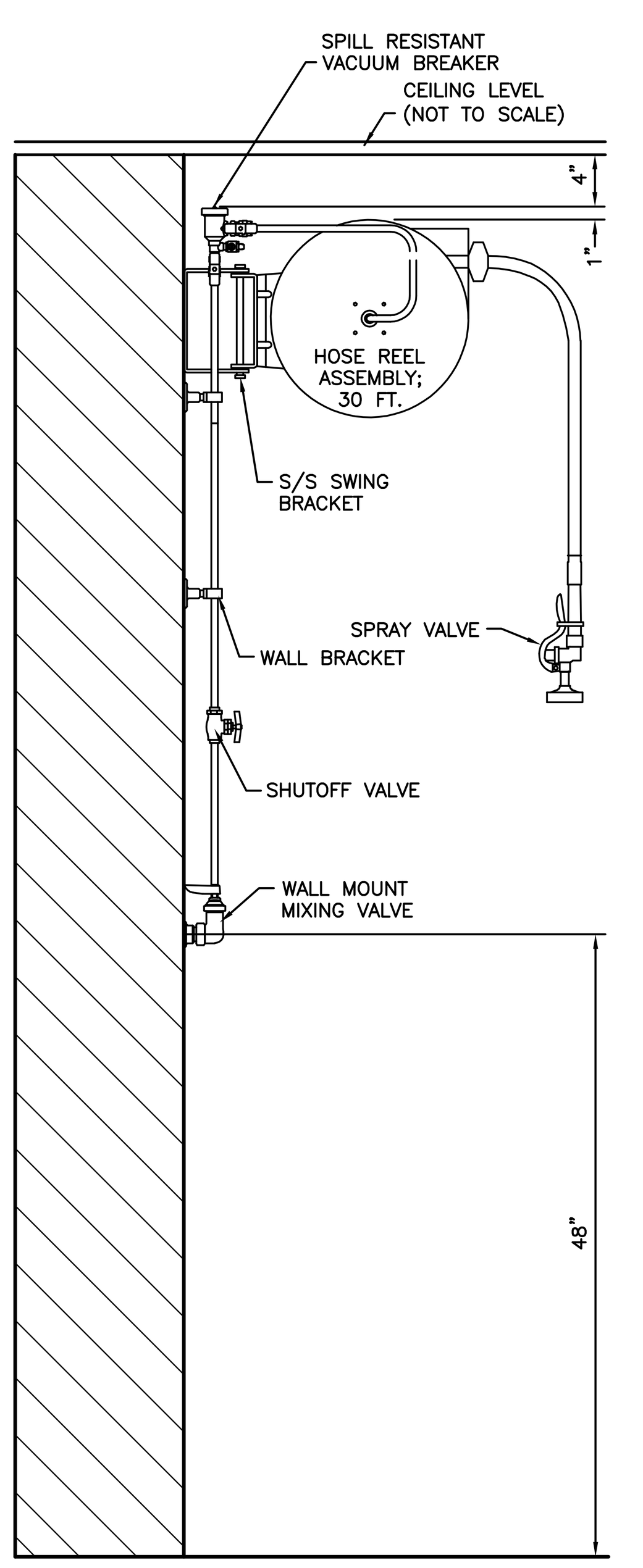
K.E.C. TO SHOW ON ROUGH–IN DRAWINGS; EXACT LOCATION OF CONVENIENCE OUTLETS, MECHANICAL AND ELECTRICAL SERVICES FOR EACH PIECE OF EQUIPMENT PROVIDED BY K.E.C., OWNER, AND VENDORS. INCLUDE ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON BID DOCUMENT DRAWING SHEETS.

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.

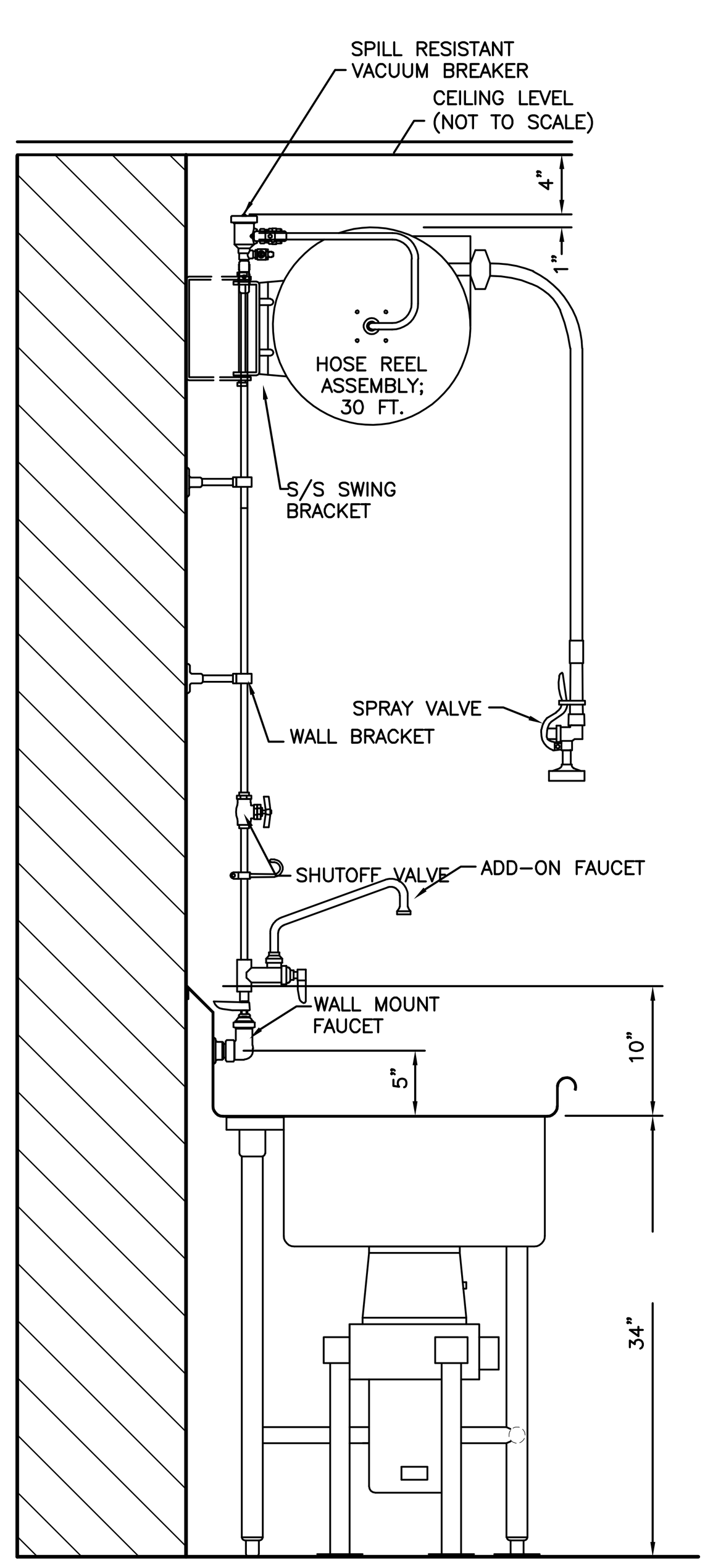
ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
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



HOSE REEL – ITEM #28

SCALE: 1" = 1'–0"



HOSE REEL – ITEM #45

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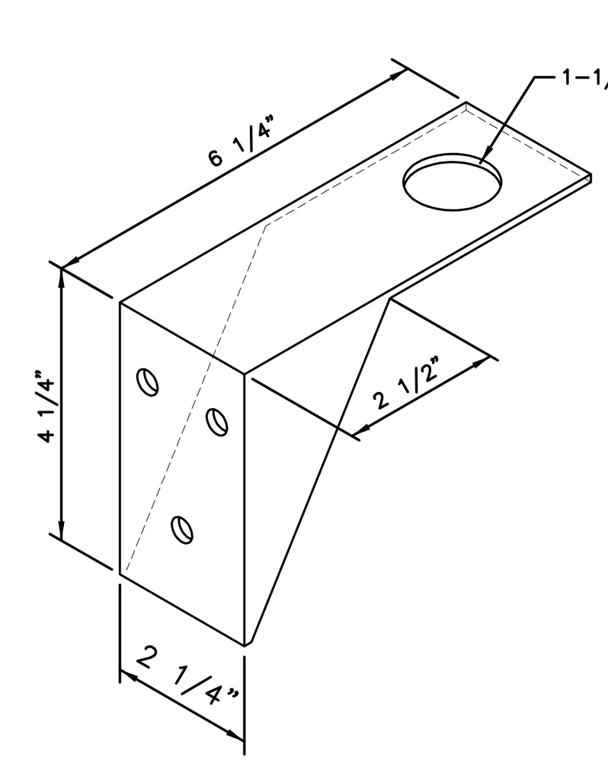
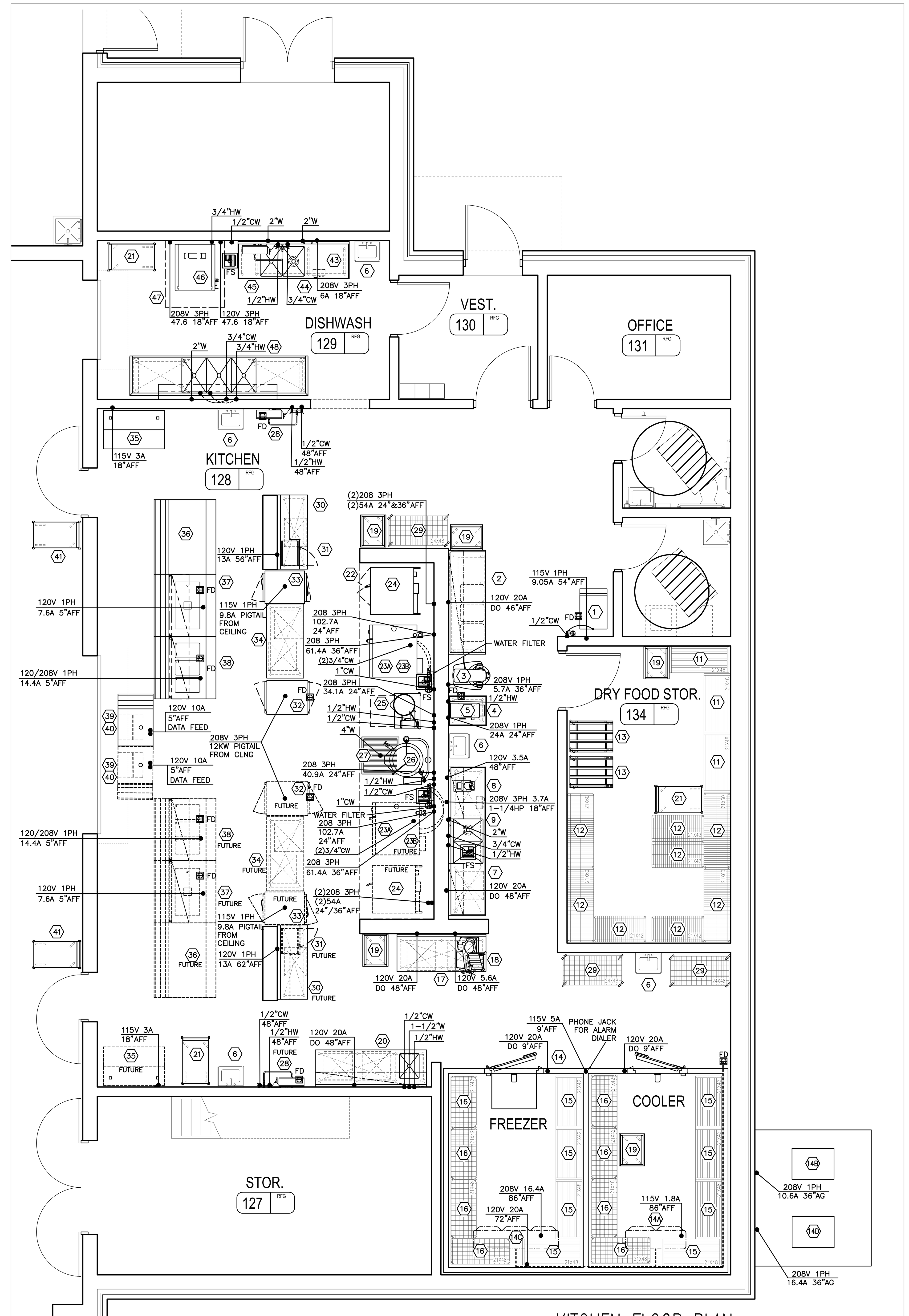


ALL 14 GA. STAINLESS STEEL

CUSTOM FAUCET BRACKET

SCALE: NONE



KITCHEN FLOOR PLAN

SCALE: 1/4" = 1'–0"

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

FOOD SERVICE EQUIPMENT PLAN

JOB NO.	1933
DATE	12/16/19
DRAWN	J.B.G.
CHECKED	B.S.

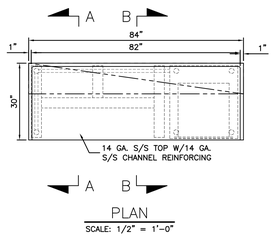
REVISIONS

No.	Description	Date
1		10/16/19

SHEET

FS1.1

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
9/4/2019 9:05:26 AM



PLAN
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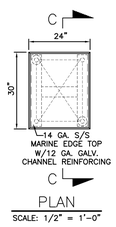

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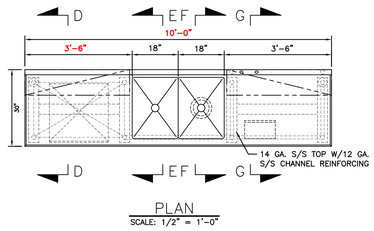

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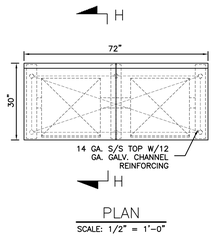

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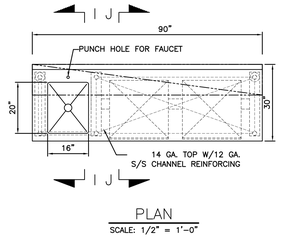

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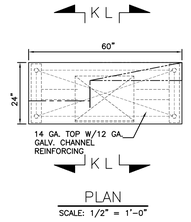

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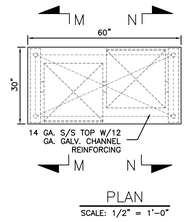

PLAN
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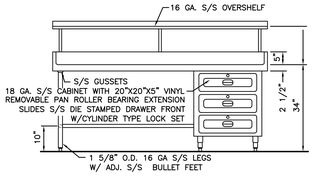
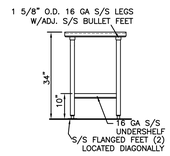


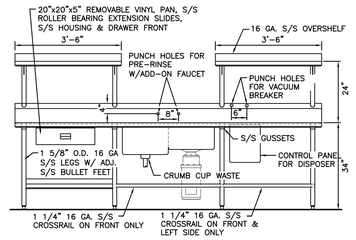
ELEVATION
SCALE: 1/2" = 1'-0"

ITEM #2 BAKER'S TABLE



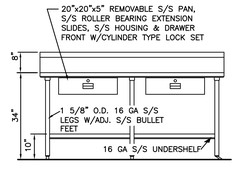
ELEVATION
SCALE: 1/2" = 1'-0"

ITEM #4 WORK TABLE



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

ITEM #7 PREP SINK



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

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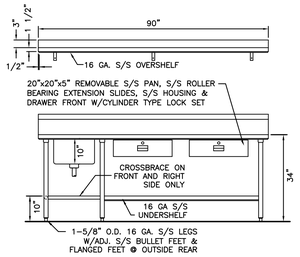
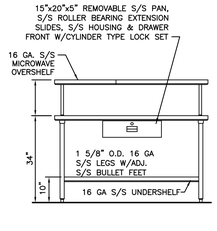


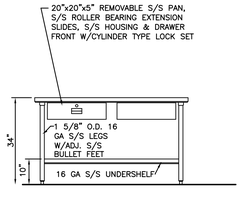
ELEVATION
SCALE: 1/2" = 1'-0"

ITEM #20 WORK TABLE W/SINK



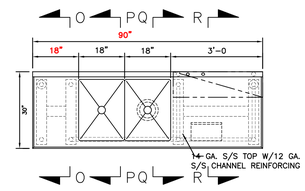
ELEVATION
SCALE: 1/2" = 1'-0"

ITEM #30 WORK TABLE

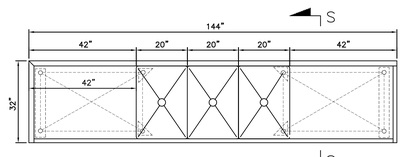


ELEVATION
SCALE: 1/2" = 1'-0"

ITEM #34 WORK TABLE



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



PLAN
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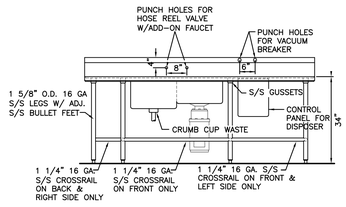
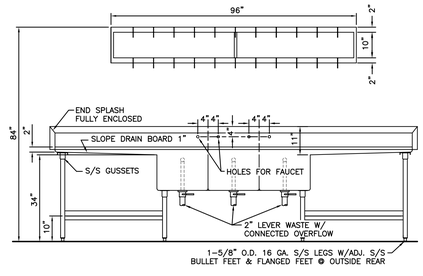


ELEVATION
SCALE: 1/2" = 1'-0"

ITEM #43 WASH SINK



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

ITEM #48 POT & PAN SINK

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
9/4/2019 9:05:26 AM

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

FOOD SERVICE EQUIPMENT ELEVATIONS

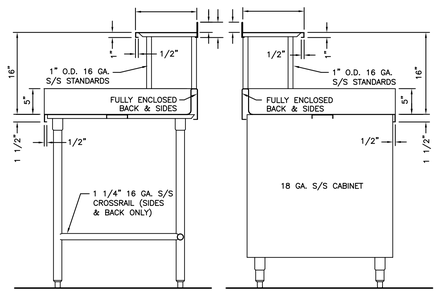
JOB NO.	1933
DATE	12/16/19
DRAWN	J.B.G.
CHECKED	B.S.

REVISIONS

No.	Description	Date
1		10/16/19

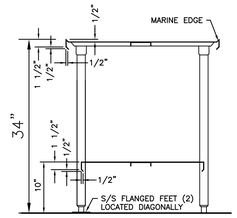
SHEET

FS1.2

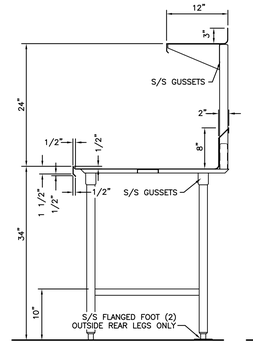


SECTION A–A
SCALE: 1" = 1'–0"

SECTION B–B
SCALE: 1" = 1'–0"



SECTION C–C
SCALE: 1" = 1'–0"



SECTION D–D
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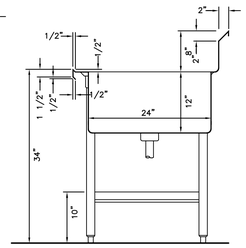

SECTION E–E
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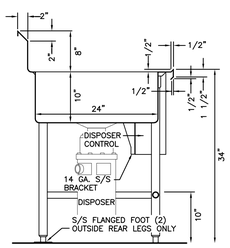

SECTION F–F
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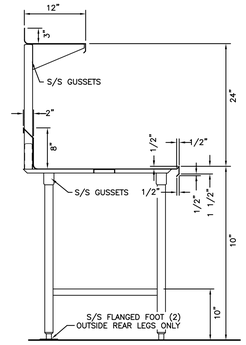

SECTION G–G
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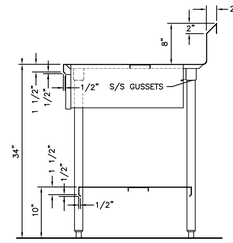

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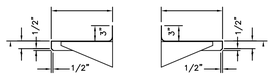

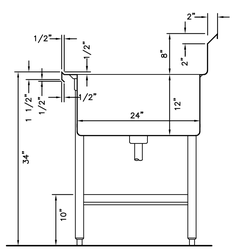

SECTION I–I
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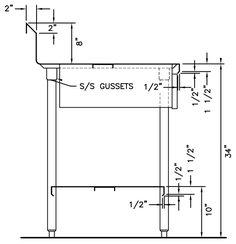

SECTION J–J
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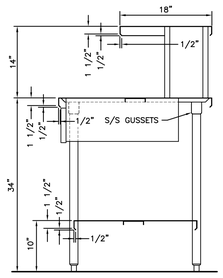

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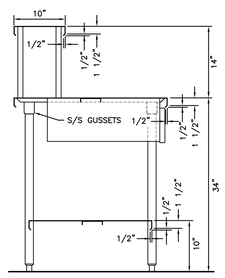

SECTION L–L
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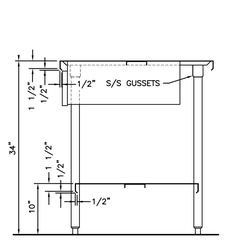

SECTION M–M
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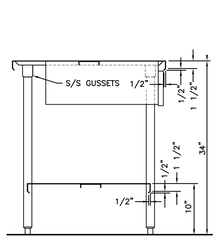

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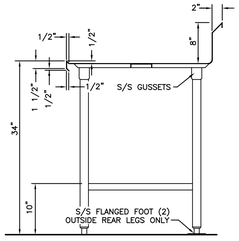

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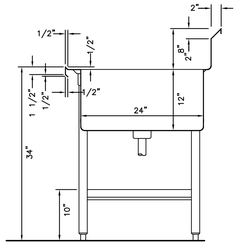

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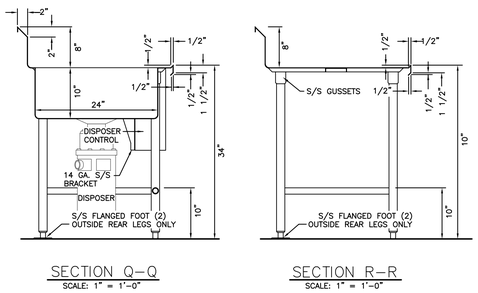


SECTION Q–Q
SCALE: 1" = 1'–0"

SECTION R–R
SCALE: 1" = 1'–0"

SECTION S–S
SCALE: 1" = 1'–0"

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

FOOD SERVICE EQUIPMENT SECTIONS

JOB NO.	1933
DATE	12/16/19
DRAWN	J.B.G.
CHECKED	B.S.

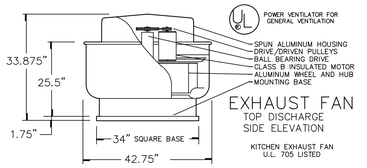
REVISIONS

No.	Description	Date
1		10/16/19

SHEET

FS1.3

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
9/4/2019 9:05:26 AM



EXHAUST FAN

TOP DISCHARGE
SIDE ELEVATION

KITCHEN EXHAUST FAN
U.L. 705 LISTED

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.

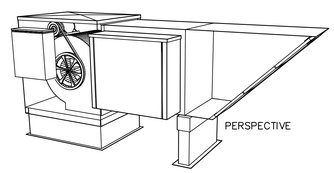
Spun aluminum corrosion resistant housing, mounted on a heavy duty steel substructure.

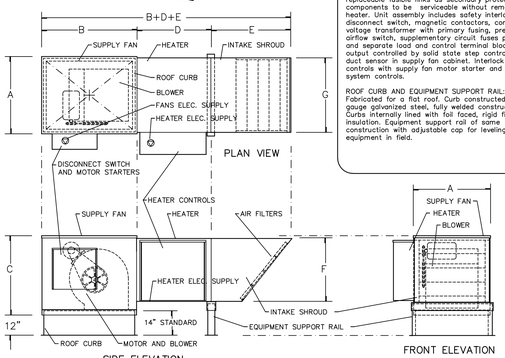
Ball bearing drive, prelubricated, mounted inside motor compartment outside air stream.

Units to be of Type B construction.

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

SUPPLY FAN AND HEATER





SPECIFICATIONS:

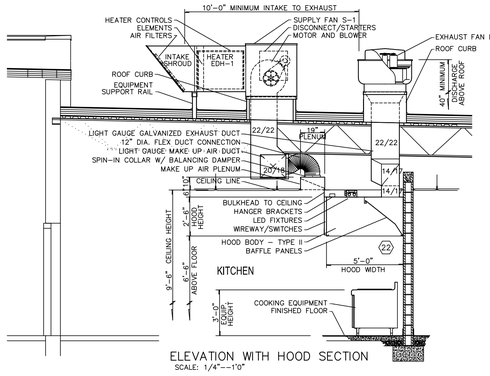
SUPPLY FAN: Fan cabinet constructed of 18 gauge galvanized steel. Forward curved double width, double inlet blower wheel. Die stamped steel housing. 1" steel shaft with sealed ball bearings in rubber mountings. ODP style motor on adjustable base plate. Belt drive, cast iron pulleys with adjustable drive.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

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.

ELECTRIC HEATER: Heater to be U.L. Listed, raintight galvanized steel cabinet with element module removable as a single unit. Six steps arranged to prevent stratification. Terminals of stainless steel, with nonporous ceramic insulators. Automatic reset thermal cutout as primary over temperature protection, replaceable fusible links as secondary protection. All components to be serviceable without removing heater. Unit assembly includes safety interlocking disconnect switch, magnetic contactors, control voltage transformer with primary fusing, pressure type airflow switch, supplementary circuit fuses per NEC and separate load and control terminal blocks. Heater output controlled by solid state step controller and duct sensor in supply fan cabinet. Interlock heater controls with supply fan motor starter and hood system controls.

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.

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



ELEVATION WITH HOOD SECTION
SCALE: 1/4"=1'0"

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 Type II condensate exhaust of light gauge galvanized steel, with lockform joints.

D. Electrical Contractor to furnish control wiring 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)

I. Electrical Contractor to furnish 480V – 97.5 K.W. service to heater on building roof.

J. Hood System Manufacturer to provide and install light gauge aluminum condensate exhaust duct, sealed at all joints and seams.

K. Electrical Contractor to provide single phase power as required to condensate exhaust fan, as indicated on hood system drawings. Interwire fan contacts on dishmachine through condensate exhaust fan circuit for fan actuation.

HOOD SYSTEM SPECIFICATIONS – ITEM 22

HOOD: Provide (1) Type II canopy exhaust hood for condensate removal, 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. Baffle rack mullion to be tack welded to inside end panel.

LIGHTS: (6) 36" LED Recessed light fixtures for canopy exhaust hoods, prewired to junction box and switches on wireway.

BAFFLES: Provide interior baffle panels, providing a 4" capture slot near top of hood. Panels to be constructed of same material as hood body and be removable without use of tools.

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

WIREWAY COVER: 18 gauge stainless steel vertical wireway cover, centered on face of hood.

SWITCHES: Oiltight control switches for hood lights, and exhaust/supply fans. Mounted on wireway cover.

FAN PACKAGE: Exhaust fan (1) upblast centrifugal, spun aluminum, belt driven, UL 705 Listed for general ventilation, with prewired disconnect switch. Wheel size to be 24" minimum and rated at 17.5 sones maximum. Supply air fan (1) centrifugal belt driven, side inlet type in square housing. Provide prewired 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.

ELECTRIC HEATER: Heater to be U.L. Listed, raintight galvanized steel cabinet with element module removable as a single unit. Six steps arranged to prevent stratification. Terminals of stainless steel, with nonporous ceramic insulators. Automatic reset thermal cutout as primary over temperature protection, replaceable fusible links as secondary protection. All components to be serviceable without removing heater. Unit assembly includes safety interlocking disconnect switch, magnetic contactors, control voltage transformer with primary fusing, pressure type airflow switch, supplementary circuit fuses per NEC and separate load and control terminal blocks. Heater output controlled by solid state step controller and duct sensor in supply fan cabinet. Interlock heater controls with supply fan motor starter and hood system controls.

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

EXHAUST DUCT: Type II condensate exhaust to be light gauge galvanized steel, with lockform joints. Provide 1/4" per foot minimum slope toward hood on all horizontal duct runs.

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.

EXHAUST SYSTEM WORK BY OTHER TRADES:

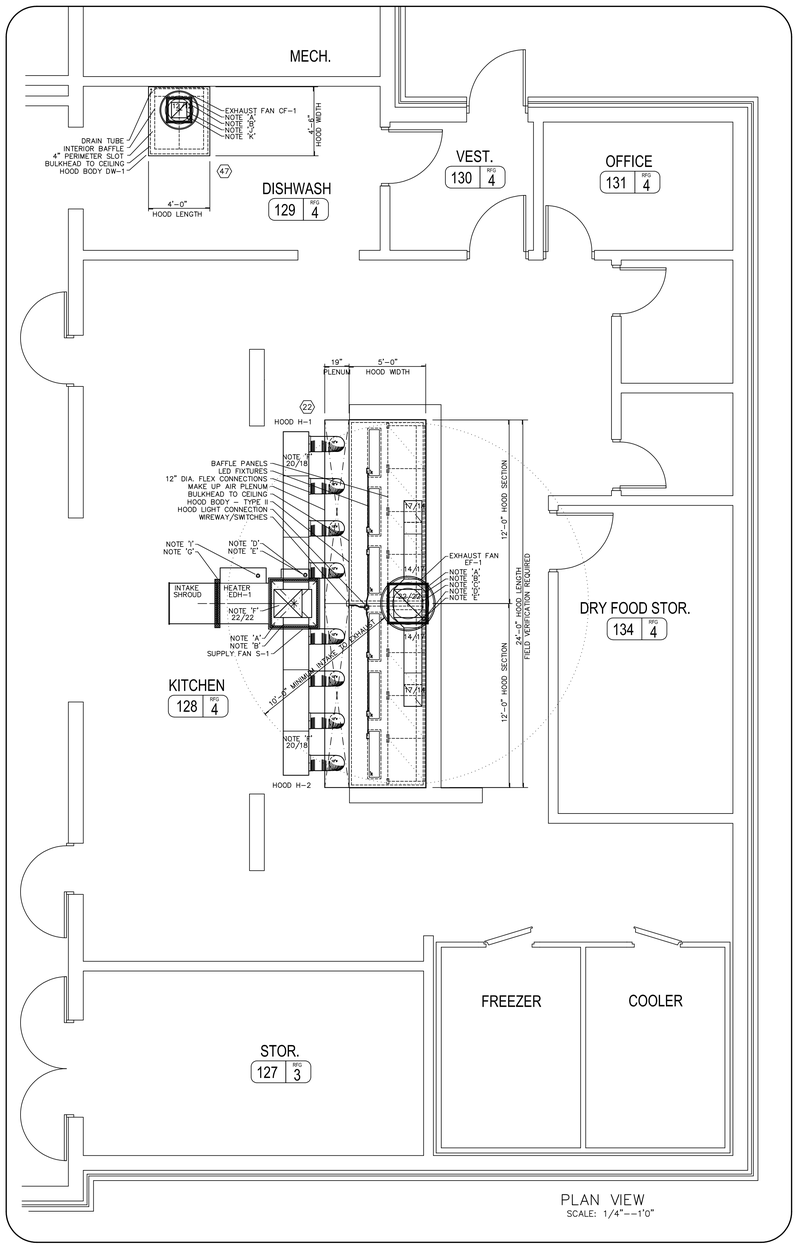
KITCHEN EQUIPMENT CONTRACTOR: Coordinate with General, Electrical, HVAC, and Plumbing contract documents.

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.

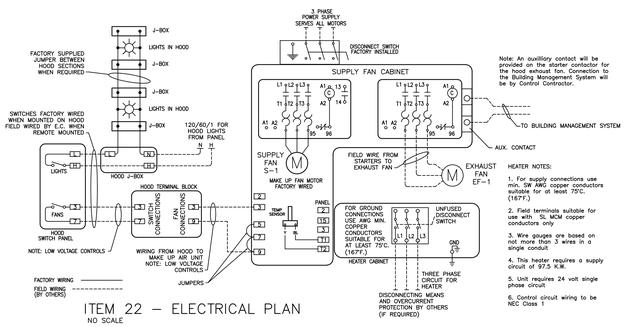
STRUCTURAL CONTRACTOR: Frame roof curb openings as required. Coordinate joist or structural member installation to provide required clearances for ductwork and shaft assemblies.

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 terminal block on hood to terminal block on supply fan motor starter panel. Provide 97.5 K.W. 3 phase service to heater on building roof. This work must be in accordance with 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.



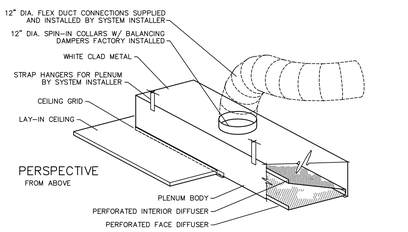
PLAN VIEW
SCALE: 1/4"=1'0"



HEATER NOTES:

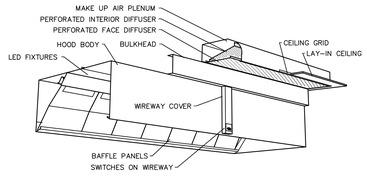
1. For supply connections use min. SW AWG copper conductors suitable for at least 75°C. (167°F.)
2. Field terminals suitable for use with SL MCM copper conductors only
3. Wire gauges are based on not more than 3 wires in a single conduit
4. This heater requires a supply circuit of 97.5 K.W.
5. Unit requires 24 volt single phase circuit
6. Control circuit wiring to be NEC Class 1

ITEM 22 – ELECTRICAL PLAN
NO SCALE

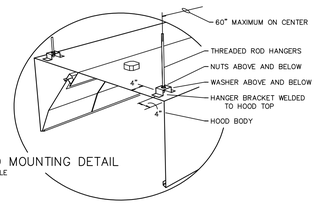


PERSPECTIVE
FROM ABOVE

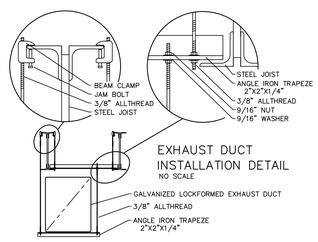
NOTE: Do Not allow fasteners from ceiling grid to obstruct perforated diffuser removal.



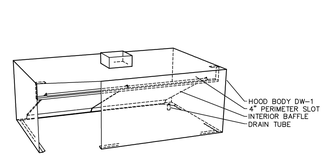
HOOD PERSPECTIVE
NO SCALE



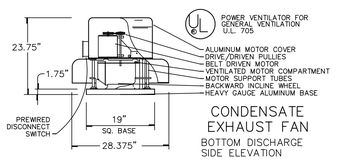
HOOD MOUNTING DETAIL
NO SCALE



EXHAUST DUCT
INSTALLATION DETAIL
NO SCALE



HOOD PERSPECTIVE
NO SCALE



CONDENSATE
EXHAUST FAN
BOTTOM DISCHARGE
SIDE ELEVATION

Motor compartment to be provided with forced air cooling.

All aluminum wheel shall be centrifugal backward inclined airfoil blades.

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

Provide gravity operated backdraft damper.

Belt driven motor with permanently lubricated sealed ball bearings, mounted inside motor compartment outside air stream.

An integral conduit chase shall be provided through the curb cap and into motor compartment to facilitate wiring connections.

DISHWASH SPECIFICATIONS
ITEM 47

CONDENSATE EXHAUST FAN: (1) Spun aluminum, downblast discharge, with 13" wheel and rated at 11.0 sones maximum. UL 705 Listed for general ventilation. Fan to include prewired disconnect switch, gravity operated backdraft damper, and bird screen.

ROOF CURB: 18 gauge welded galvanized steel, internally insulated, field verify roof pitch before construction.

HOOD: Type II Condensate Hood, sized as shown on drawings, constructed of 18 gauge stainless steel. All welded construction with perimeter condensate trough and 12" square x 3" high collar. Provide matching interior baffle panels, removable without tools. Provide bulkhead between top of hood and ceiling on all exposed sides, constructed of same material as hood body.

CONDENSATE EXHAUST DUCT: Ductwork to be light gauge sealed aluminum material.

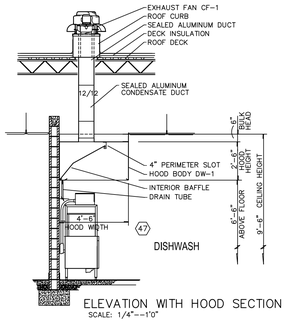
EXHAUST SYSTEM WORK BY OTHER TRADES:

ROOFING CONTRACTOR: Provide roof opening. Set in place and flash (with cant if required) roof curb provided by the hood system manufacturer.

STRUCTURAL CONTRACTOR: Frame roof opening as required. Coordinate joist or structural member installation to provide required clearances for ductwork.

ELECTRICAL CONTRACTOR: Provide single phase power as required to condensate exhaust fan as indicated on hood system drawings. Interwire fan contacts on dishmachine through condensate exhaust fan circuit for fan actuation.

MECHANICAL CONTRACTOR: Provide net room air demand as indicated on the hood system drawings. This air volume is required only when the condensate exhaust hood system is in operation.



ELEVATION WITH HOOD SECTION
SCALE: 1/4"=1'0"

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	24"	17.5	5,890	1.0"	146	3.0	208/60/3
S-1	H-1, H-2	36"X36"	SUPPLY	15"	21.0	4,712	1.5"	294	3.0	208/60/3
CF-1	DW-1	14"X14"	EXHAUST	13"	11.0	1,000	.75"	67	1/2	120/60/1

HEATER	TYPE	INPUT K.W.	VOLTAGE PHASE	CONTROL CIRCUIT	WEIGHT
EDH-1	ELECTRIC	97.5	208/60/3	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	12'0"X5'0"	360	2,945	14"X17"	1,782	.625"	(4)589	(4)12" DIA.	750	.25"
H-2	12'0"X5'0"	360	2,945	14"X17"	1,782	.625"	(4)589	(4)12" DIA.	750	.25"
DW-1	4'0"X4'6"	225	1,000	12"X12"	1,000	.375"	---	---	---	---

SYSTEM TOTALS	
EXHAUSTED AIR	5,890
TEMPERED SUPPLY AIR	4,712
DISHMACHINE EXHAUSTED AIR	1,000
RETURN AIR THRU BUILDING SOURCES	2,178

SHERMAN CARTER BARNHART ARCHITECTS

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

FOOD SERVICE KITCHEN EXHAUST PLAN

JOB NO.	1933
DATE	12/16/19
DRAWN	K.B.
CHECKED	J.B.G.

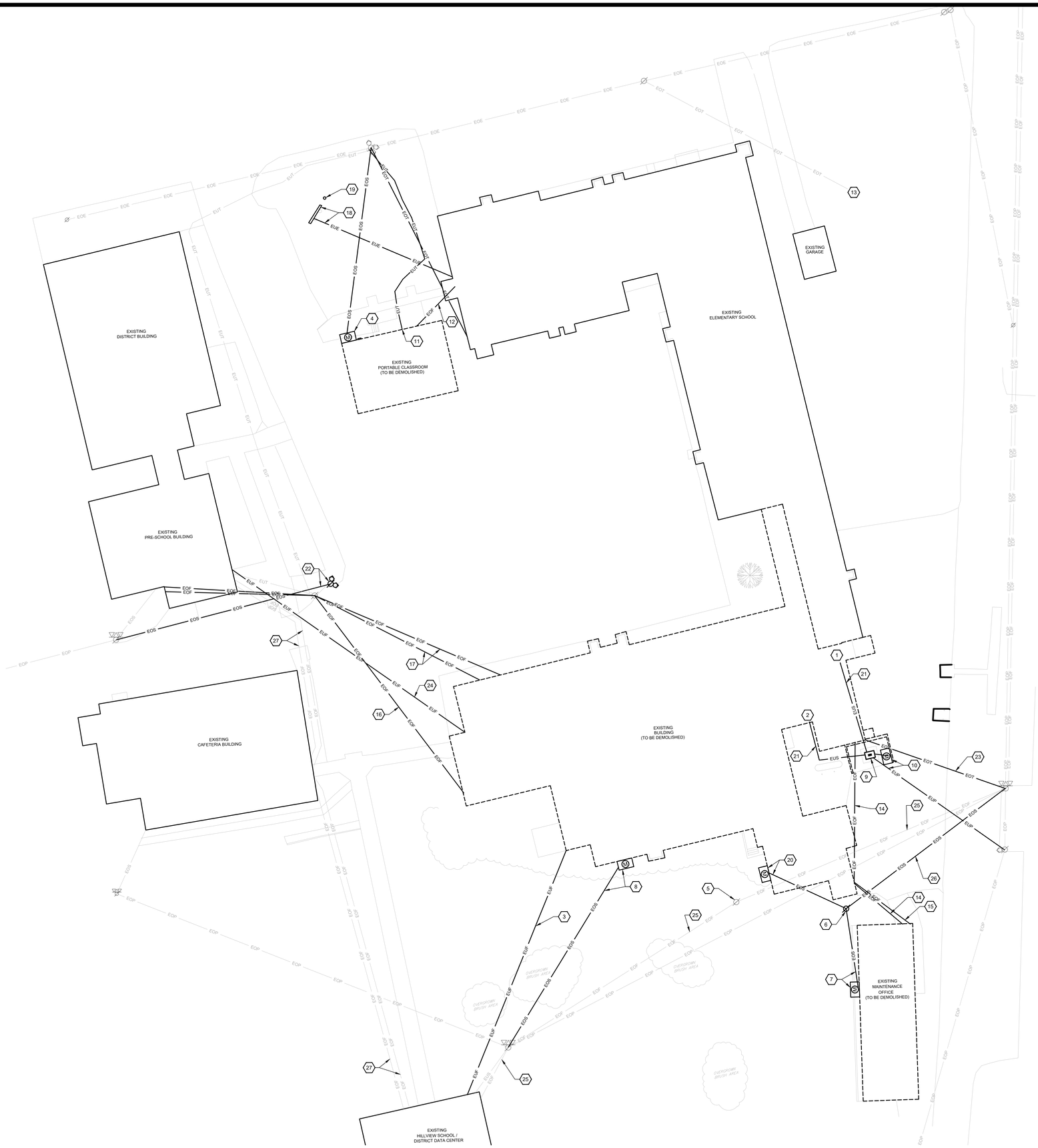
REVISIONS

No.	Description	Date
1		10/16/19

SHEET

FS1.4

1933
SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
9/4/2019 9:05:26 AM



1 ELECTRICAL SITE UTILITIES PLAN - DEMOLITION
SCALE: 1"=20'-0"

PLAN NORTH

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.02.

SHEET KEYNOTES:

1. PADMOUNT TRANSFORMER SERVICE (1 OF 2).THIS SECONDARY RUNS UP SIDE OF BUILDING, ACROSS ROOF TO MAIN ENTRANCE DISTRIBUTION PANELBOARD ("MEP", 1200A) LOCATED ON SECOND LEVEL ROOM: STOR./OFFICE 234, APPROXIMATELY THIS LOCATION.
2. PADMOUNT TRNSFORMER SERVICE (2 OF 2). THIS SECONDARY RUNS UNDERGROUND INTO BOILER ROOM INTO WIREWAY, DISCONNECT LINE-UP, APPROXIMATELY THIS LOCATION.
3. EXISTING UNDERGROUND DISTRICT FIBER FEED FROM HILL VIEW SCHOOL TO ELEMENTARY SCHOOL TO BE DEMOLISHED. FIBER ROUTES THROUGH EXISTING UNDERGROUND STEAM TUNNEL THAT RUNS BETWEEN THE TWO BUILDINGS. DISCONNECT FIBER AT EACH END BEFORE DEMOLISHING.
4. EXISTING PORTABLE CLASSROOM METER AND SERVICE DROP TO BE DEMOLISHED. COORDINATE DISCONNECTING AND REMOVAL OF OVERHEAD SERVICE CONDUCTORS WITH LOCAL UTILITY.
5. EXISTING OWNER RISER POLE FOR OVERHEAD DISTRICT FIBER ROUTING TO REMAIN.
6. EXISTING KENTUCKY UTILITIES RISER POLE TO BE REMOVED. COORDINATE REMOVAL OVERHEAD ELECTRIC LINES AND POLE WITH UTILITY COMPANY.
7. EXISTING MAINTENANCE BUILDING METER AND SERVICE DROP TO BE DEMOLISHED. COORDINATE DISCONNECTING AND REMOVAL OF OVERHEAD SERVICE CONDUCTORS WITH LOCAL UTILITY.
8. EXISTING GYMNASIUM BUILDING METER AND SERVICE DROP TO BE DEMOLISHED. COORDINATE DISCONNECTING AND REMOVAL OF OVERHEAD SERVICE CONDUCTORS WITH LOCAL UTILITY.
9. EXISTING KENTUCKY UTILITIES PAD MOUNT TRANSFORMER. COORDINATE SECONDARY CONDUCTOR DISCONNECTION, PRIMARY CONDUCTOR REMOVAL, AND TRANSFORMER REMOVAL WITH UTILITY. ALL SECONDARY CONDUCTORS AND CONDUITS TO BE DEMOLISHED.
10. EXISTING UNDERGROUND PRIMARY TO BE DEMOLISHED. COORDINATE DISCONNECTING OF SERVICE AND CONDUCTOR REMOVAL WITH LOCAL UTILITY. EMPTY CONDUITS MAY BE ABANDONED IN PLACE.
11. EXISTING UNDERGROUND TELEPHONE SERVICE TO PORTABLE CLASSROOM TO BE DEMOLISHED. COORDINATE DEMOLITION WITH LOCAL TELEPHONE UTILITY. UNDERGROUND CONDUITS MAY BE ABANDONED IN PLACE.
12. EXISTING OVERHEAD DISTRICT DATA NETWORK CONNECTION AND FIRE ALARM CONNECTION FROM SCHOOL BUILDING TO PORTABLE CLASSROOM BUILDING TO BE DEMOLISHED. DEMOLISH DATA CABLING IN SCHOOL BUILDING BACK TO SOURCE.
13. EXISTING OVERHEAD TELECOMMUNICATION CABLING TO NEIGHBORS HOUSE TO REMAIN.
14. EXISTING OVERHEAD DISTRICT DATA NETWORK CABLING FROM SCHOOL BUILDING TO MAINTENANCE BUILDING TO BE DEMOLISHED. DEMOLISH DATA CABLING IN SCHOOL BUILDING BACK TO SOURCE.
15. EXISTING OVERHEAD FIRE ALARM CABLING FROM SCHOOL BUILDING TO MAINTENANCE BUILDING TO BE DEMOLISHED. DEMOLISH FIRE ALARM CABLING IN SCHOOL BUILDING BACK TO SOURCE.
16. EXISTING OVERHEAD FIRE ALARM CABLING FROM SCHOOL BUILDING TO CAFETERIA AND PRE-SCHOOL BUILDING TO BE DEMOLISHED. DEMOLISH FIRE ALARM CABLING IN SCHOOL BUILDING BACK TO SOURCE.
17. EXISTING OVERHEAD DISTRICT DATA NETWORK CABLING FROM SCHOOL BUILDING TO CAFETERIA BUILDING AND PRE-SCHOOL BUILDING TO BE DEMOLISHED. DEMOLISH DATA CABLING IN SCHOOL BUILDING BACK TO SOURCE.
18. EXISTING SCHOOL SIGN TO BE REMOVED BY OTHERS. DEMOLISH CONDUCTORS BACK TO SOURCE. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE. ALL EXPOSED CONDUIT ON THE BUILDING EXTERIOR AND BUILDING INTERIOR ASSOCIATED WITH THIS CIRCUIT SHALL BE DEMOLISHED.
19. EXISTING FLAG POLE TO REMAIN.
20. EXISTING STORAGE BUILDING METER AND SERVICE DROP TO BE DEMOLISHED. COORDINATE DISCONNECTING AND REMOVAL OF OVERHEAD SERVICE CONDUCTORS WITH LOCAL UTILITY.
21. EXISTING SECONDARY SERVICE CONDUCTORS TO BE DEMOLISHED. COORDINATE DISCONNECTING OF SECONDARY CONDUCTORS WITH KENTUCKY UTILITIES. ALL EXPOSED AND UNDERGROUND SECONDARY CONDUITS TO BE DEMOLISHED.
22. EXISTING KENTUCKY UTILITIES RISER POLE AND UTILITY FLOOD LIGHT TO BE REMOVED. COORDINATE POLE, LIGHT, AND OVERHEAD ELECTRIC LINE REMOVAL WITH UTILITY.
23. EXISTING OVERHEAD TELEPHONE LINE. COORDINATE DEMOLITION WITH LOCAL TELECOMMUNICATION UTILITY. DEMOLISH BACK TO SOURCE.
24. EXISTING UNDERGROUND DISTRICT FIBER FROM ELEMENTARY SCHOOL TO PRE-SCHOOL BUILDING TO BE DEMOLISHED. DISCONNECT FIBER CONNECTION AT BOTH ENDS PRIOR TO DEMOLITION. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.
25. EXISTING AERIAL SCHOOL DISTRICT FIBER TO REMAIN. FIBER ORIGINATES FROM HILLVIEW SCHOOL (LOCATION OF SCHOOL DISTRICT DATA CENTER) AND TRAVELS AERIAL TO OTHER SCHOOL DISTRICT BUILDING LOCATIONS.
26. EXISTING OVERHEAD SECONDARY CONDUCTORS TO BE REMOVED. COORDINATE REMOVAL WITH KENTUCKY UTILITIES.
27. EXISTING TEMPORARY AERIAL DISTRICT FIBER TO REMAIN.

SHERMAN CARTER BARNHART ARCHITECTS

SHROUT TATE MECHANICAL AND ELECTRICAL ENGINEERS WILSON
Lexington - Louisville
www.stweng.com

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

ELECTRICAL SITE UTILITIES PLAN - DEMOLITION

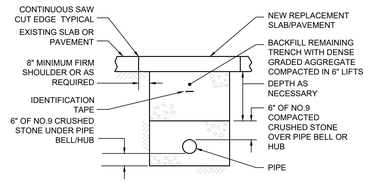
JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

No.	Description	Date

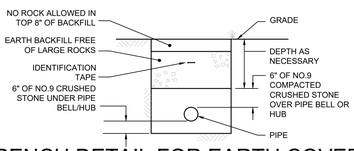
SHEET

UD1.1



TRENCH DETAIL FOR EXISTING SLAB/PAVMENT

NOT TO SCALE



TRENCH DETAIL FOR EARTH COVER

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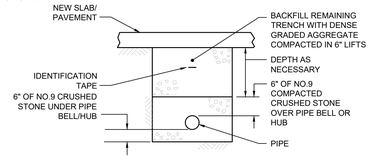

TRENCH DETAIL FOR NEW SLAB/PAVMENT

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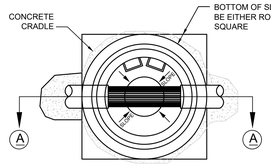
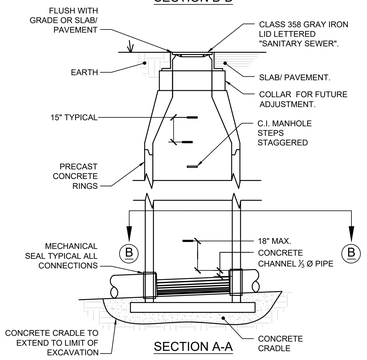


SECTION B-B

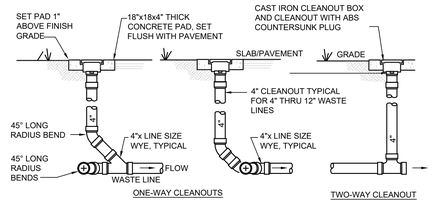


SECTION A-A

STANDARD MANHOLE

MANHOLE DETAIL

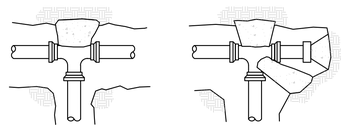
NOT TO SCALE



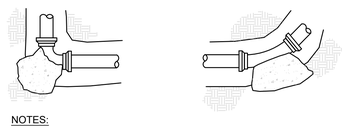
NOTE: CLEANOUTS IN STRAIGHT RUNS OF PIPING SHALL BE TWO-WAY TYPE CLEANOUTS, UNLESS OTHERWISE SHOWN AND OR NOTED.

SANITARY SEWER CLEANOUT DETAIL

NOT TO SCALE



CONCRETE THRUST BLOCK AREAS				
PIPE SIZE	TEES & DEAD ENDS	90° BEND	45° BEND	22 1/2" BEND
4"&<	1 S.F.	1.5 S.F.	1 S.F.	0.5
6"	2 S.F.	3 S.F.	2 S.F.	1 S.F.
8"	4 S.F.	5 S.F.	3 S.F.	1.5 S.F.
12"	8 S.F.	9 S.F.	7 S.F.	2.5 S.F.

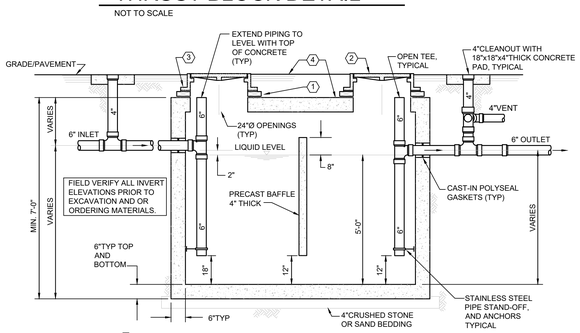


NOTES:

1. BLOCKING SHALL BE 2,500 PSI CONCRETE (MINIMUM) AND BE PLACED AGAINST UNDISTURBED EARTH, TYPICAL.
2. WRAP 4 MIL. PLASTIC AROUND ALL FITTING BOLTS PRIOR TO PLACING CONCRETE BLOCKING.
3. REFER TO PLAN VIEWS FOR PIPE SIZES.

THRUST BLOCK DETAIL

NOT TO SCALE



DETAIL NOTES:

1. CONCRETE ADJUSTING SECTION(S) AS REQUIRED TO MEET GRADE. SEAL TO TOP OF VAULT WITH BUTYL MASTIC.
2. HEAVY DUTY MANHOLE FRAME W/ 24"Ø GASKETED LID, CONCEALED PICK HOLES, "GREASE TRAP" LETTERING IN LID, VULCAN V-1348 HEAVY DUTY 260 LBS OR EQUAL.
3. SET MANHOLE FRAME IN BUTYL MASTIC, CAP WITH CONCRETE GROUT TO TOP OF ROP, TYPICAL.
4. INSTALL GREASE TRAP LEVEL. INSTALL MANHOLES SO THAT GRADE SLOPES AWAY FROM MANHOLES AT 1/8"/FT±.

SPECIFICATIONS

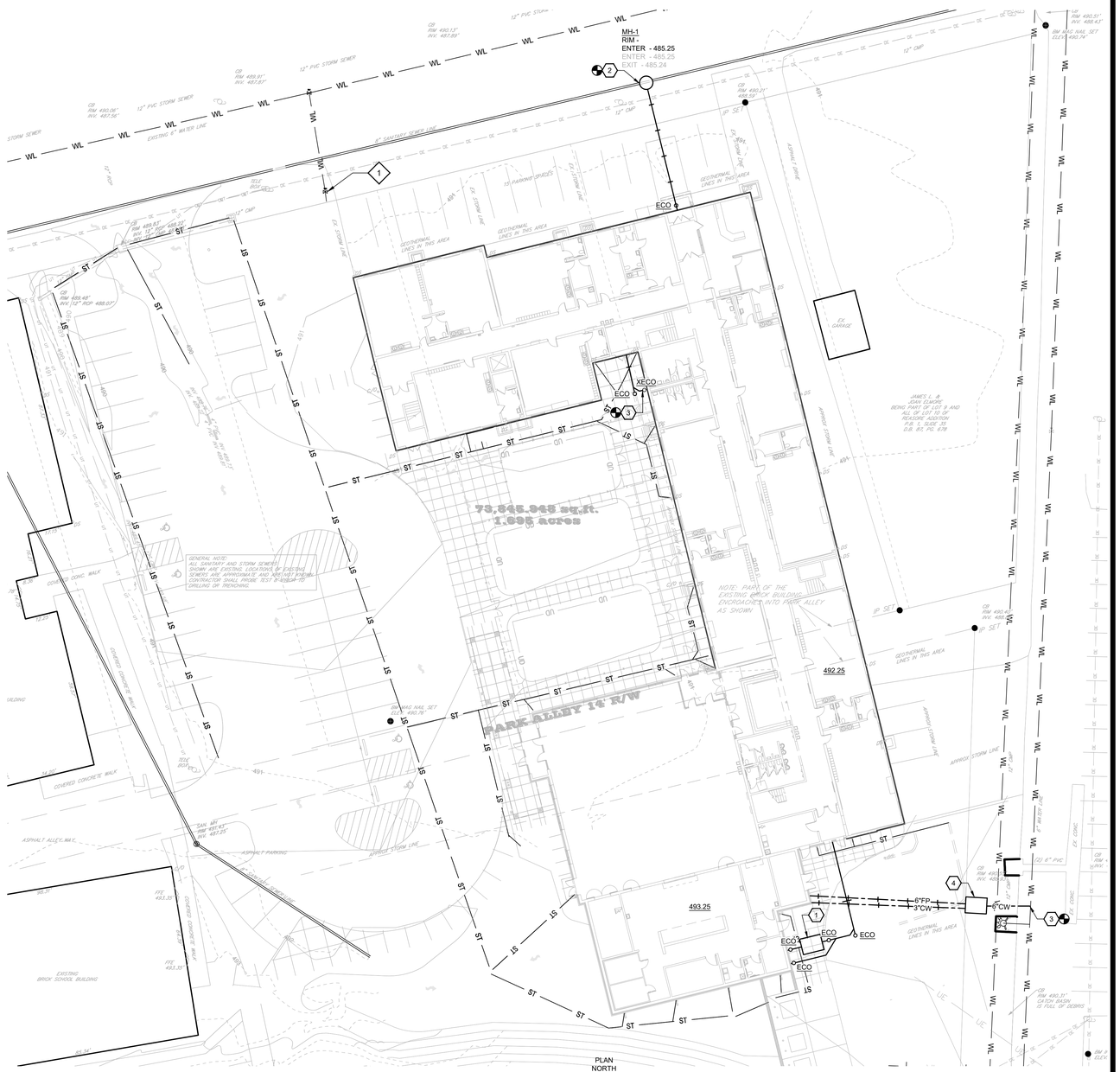
- CONCRETE - 4500 PSI @ 28 DAYS
- REINFORCEMENT -

TANK: TOP & BOTTOM
6x6x10 WIRE MESH
#4 STEEL, REINFORCING BAR ON 20" CENTERS
TANK SIDES: #04 REINFORCING BAR ON 20" CENTERS
#12 TWISTED CABLE

CONSTRUCTED TO THE REQUIREMENTS OF THE CITY OF ELIZABETHTOWN.

1,000 GALLON GREASE TRAP DETAIL FOR HEAVY TRAFFIC

NOT TO SCALE



1 PLUMBING SITE UTILITIES PLAN

SCALE: 1"=20'-0"

SITE UTILITY GENERAL NOTES

1. THE UTILITIES ARE SHOWN ON THE DRAWINGS AS ACCURATELY AS THEY HAVE BEEN PROVIDED TO THE ARCHITECT/ENGINEER. THEIR LOCATIONS ARE NOT GUARANTEED. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND TO HAVE ALL UTILITIES FIELD LOCATED, PRIOR TO STARTING CONSTRUCTION. THE UTILITIES SHOWN REPRESENT OBSERVABLE FEATURES ALONG WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES, AND IS THEREFORE NOT WARRANTED. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY LOCATIONS, SIZES, TYPE ETC. NEEDED TO COMPLETE THE WORK OF THE CONTRACT.
2. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IF A PROBLEM COULD EXIST. IF THE CONTRACTOR PROCEEDS WITHOUT CONTACTING THE UTILITY COMPANIES AND DOES NOT NOTIFY THE ARCHITECT/ENGINEER OF POTENTIAL PROBLEMS HE DOES SO AT HIS OWN RISK.
3. ALL CONTRACTORS SHALL BE REQUIRED TO VISIT THE SITE PRIOR TO SUBMITTING A BID ON THE PROJECT. CHANGE ORDERS FOR DEMOLITION, RENOVATION OR BUILDING ADDITIONS OF ITEMS READILY NOTICEABLE OR REASONABLY INFERRED BY SITE OBSERVATION SHALL NOT BE CONSIDERED.
4. PRIOR TO TERMINATION AND REMOVAL OF UTILITIES, THE CONTRACTOR SHALL VERIFY THESE UTILITIES ARE NOT SERVING AREAS OUTSIDE THE DEMOLITION/NEW WORK LIMITS. IF ANY OF THESE UTILITIES ARE SERVING AREAS OUTSIDE THE DEMOLITION/NEW WORK LIMITS, THE CONTRACTOR SHALL NOT REMOVE ANY OF THESE UTILITIES. NOTIFY THE ARCHITECT/ENGINEER SO COORDINATION AND CLARIFICATION CAN OCCUR.
5. THE CONTRACTOR SHALL HAVE THE UTILITY COMPANY LOCATE THE BURIED LINES.
6. AREAS OUTSIDE THE DEMOLITION/NEW WORK LIMITS HAVE OCCUPIED BUILDINGS. ALL NECESSARY CARE SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THE SAFETY OF THE RESIDENTS, AND ADJACENT PROPERTY.
7. PROVIDE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING STRUCTURES THAT REMAIN IN PLACE, TO BE REUSED OR TO REMAIN THE PROPERTY OF THE OWNER. ANY DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST.
8. ALL EXCESS DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY IN A LANDFILL APPROVED BY AN AGENCY HAVING JURISDICTION.
9. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING PAVING, SIDEWALKS AND CURBS WHERE NOTED TO REMAIN. IF THE PAVING, SIDEWALKS AND/OR CURBS ARE DAMAGED, THE CONTRACTOR SHALL REPAIR THEM PER THE SPECIFICATIONS OF AUTHORITIES HAVING JURISDICTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING THE COST OF ALL PERMITS AND FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. THE CONTRACTOR SHALL PAY FOR ALL HIGHWAY FEES, UTILITY SERVICE FEES (PLUMBING, ELECTRICAL, SANITARY TAP, ETC.), FOR ALL RELOCATION COSTS AND/OR RELOCATION FEES, AND FOR ALL DAMAGES TO SIDEWALKS, STREETS AND/OR OTHER PUBLIC PROPERTY.
11. WHERE PAVEMENT, WALKS, ETC. ARE TO BE DEMOLISHED, SAWCUT EDGE AT ALL AREAS ADJACENT TO ITEMS INDICATED TO REMAIN TO PROVIDE CLEAN, STRAIGHT EDGE.
12. PROVIDE APPROVED PROTECTION AND COORDINATE INSTALLATION OF TEMPORARY SERVICES OR CONNECTION FOR ELECTRICAL AND MECHANICAL UTILITIES.

DEMOLITION SHEET KEYNOTES:

1. DISCONNECT EXISTING WATER SERVICE. REMOVE WATER VALVES AND PIT. CAP EXISTING PIPING.

SHEET KEYNOTES:

1. 1,000 GALLON GREASE TRAP.
2. CONNECT NEW SANITARY TO EXISTING.
3. CONNECT NEW 6"CW TO EXISTING 12"CW
4. COMBINATION WATER METER AND FIRE PROTECTION VAULT.

"KY BUD" BEFORE YOU DIG: (811)

UNDERGROUND UTILITY LOCATIONS WERE DETERMINED FROM SITE SURVEY AND VISUAL INSPECTION OF THE PROPERTY AND SHOULD BE CONSIDERED APPROXIMATE ONLY. CONTACT ALL INDIVIDUAL UTILITY COMPANIES AND "KY BUD" PRIOR TO BEGINNING ANY EXCAVATION.

Kentucky 811

UTILITY CONTACT INFORMATION	
CITY OF TAYLORSVILLE HAROLD COMPTON -	PHONE: (502) 477-3235

SHERMAN CARTER BARNHART ARCHITECTS

SHROUT TATE WILSON MECHANICAL AND ELECTRICAL ENGINEERS
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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

PLUMBING SITE UTILITIES PLAN

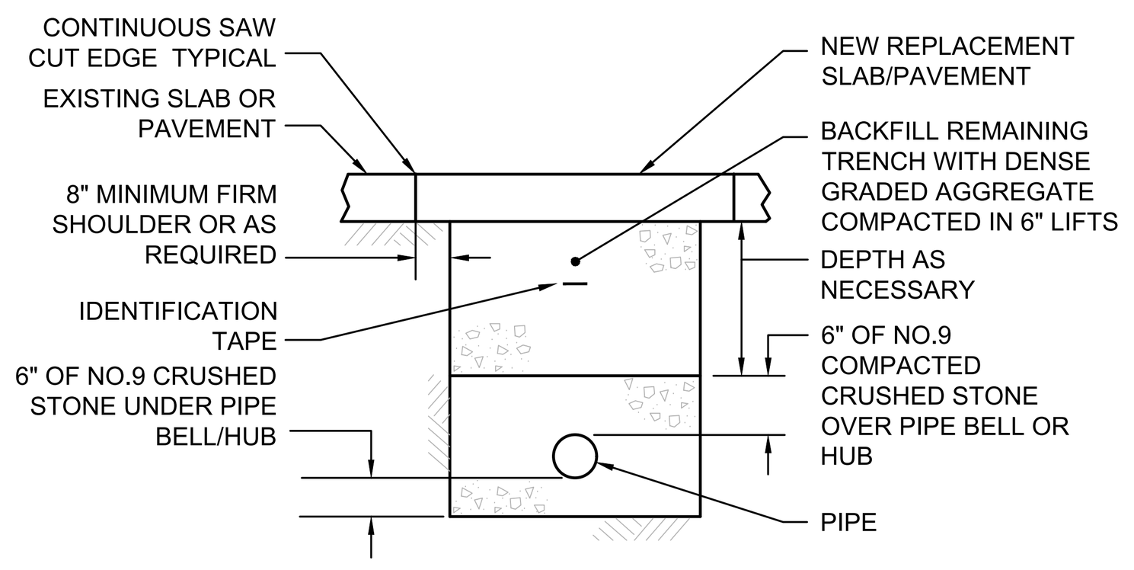
JOB NO.	1759
DATE	12/16/19
DRAWN	MM
CHECKED	NM

REVISIONS

No.	Description	Date

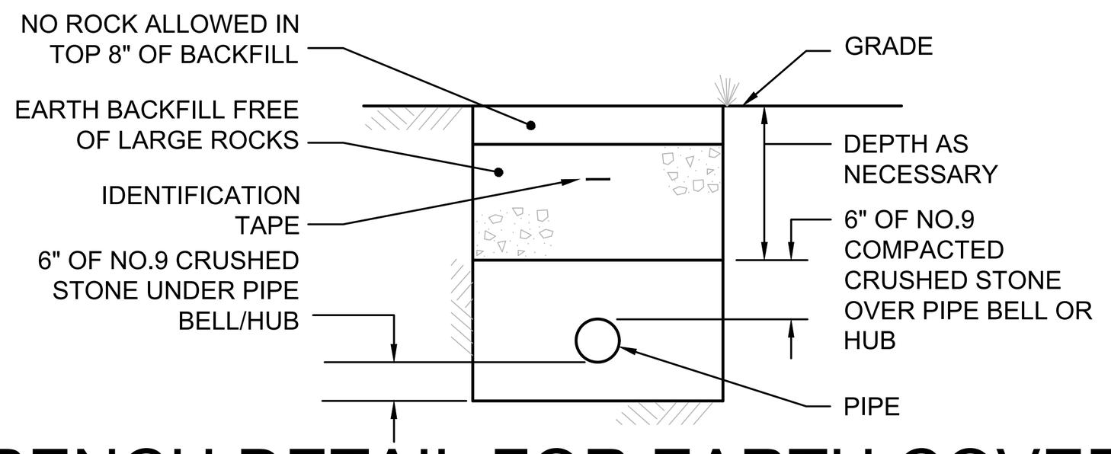
SHEET

U1.1



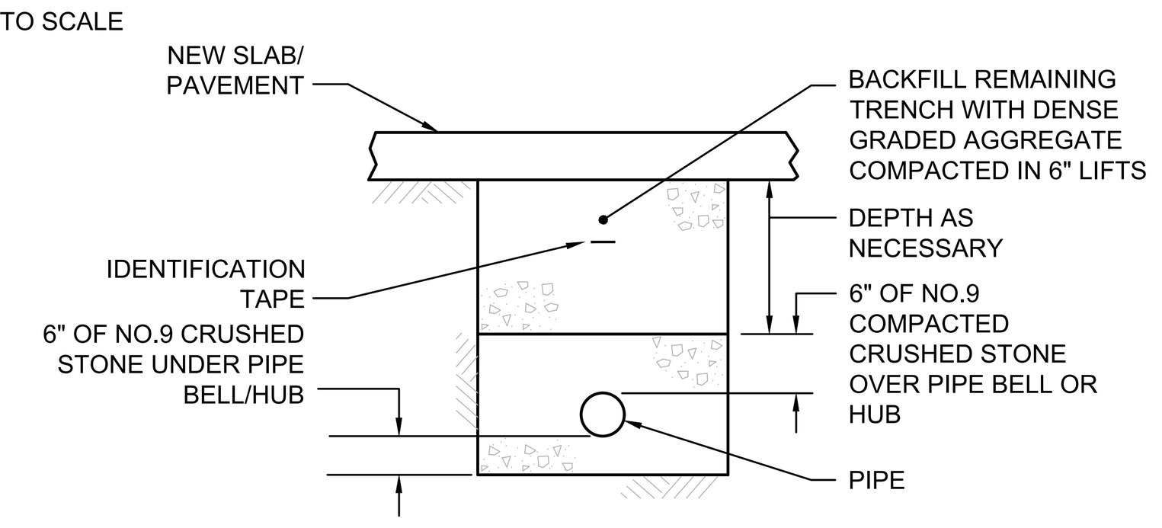
TRENCH DETAIL FOR EXISTING SLAB/PAVMENT

NOT TO SCALE



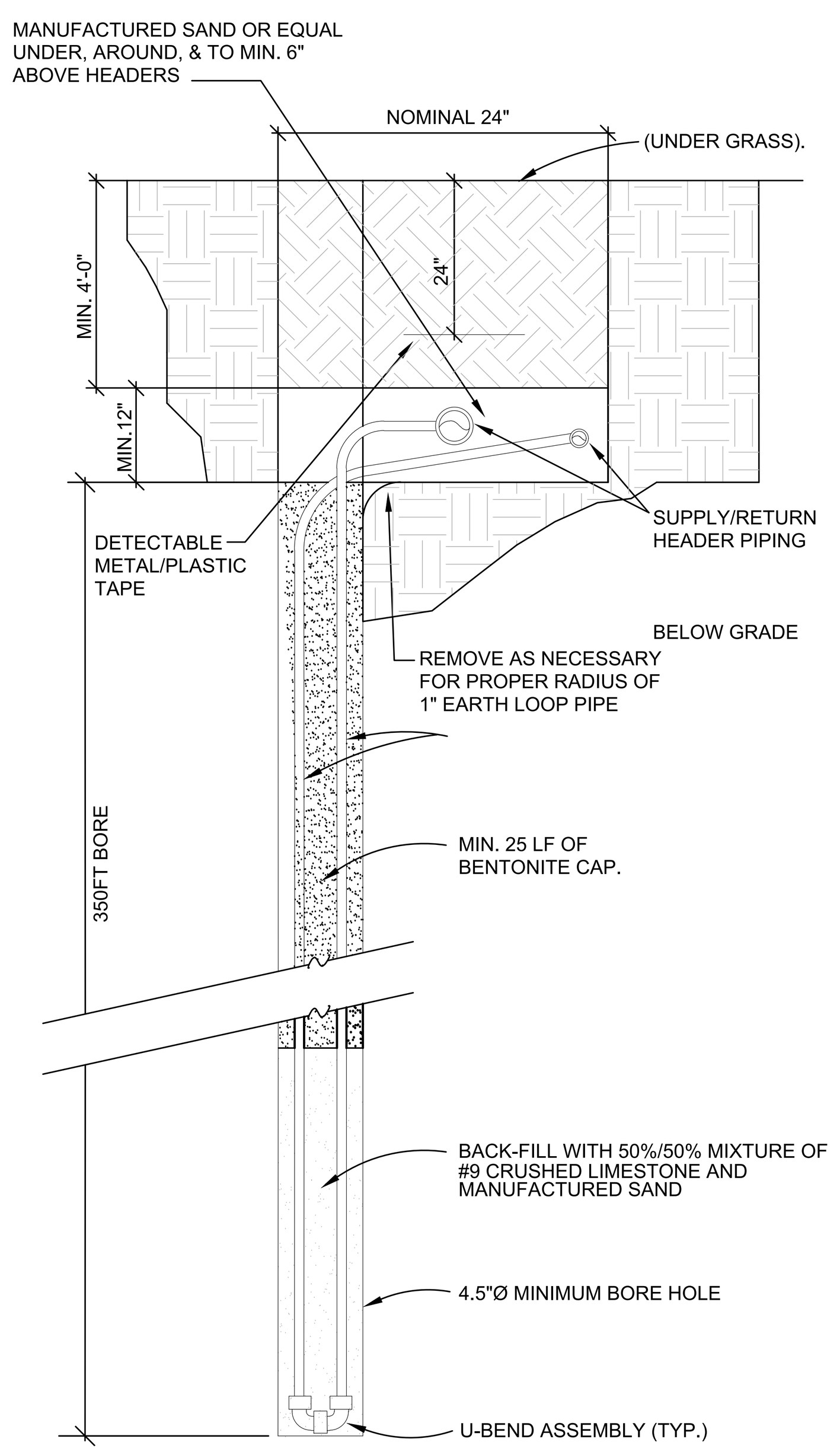
TRENCH DETAIL FOR EARTH COVER

NOT TO SCALE



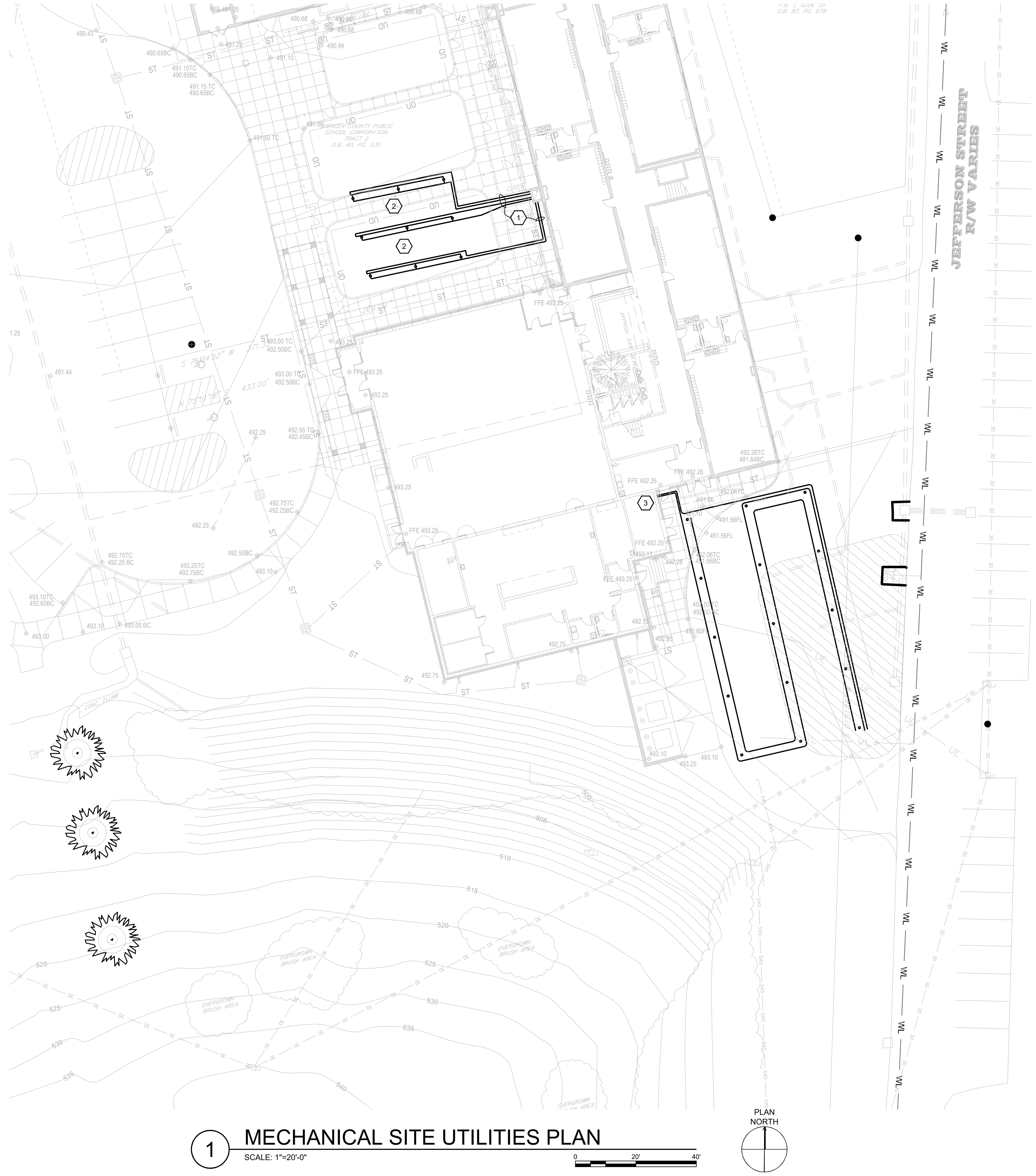
TRENCH DETAIL FOR NEW SLAB/PAVMENT

NOT TO SCALE



2 Earth Loop Bore Detail (Typical All Wells)

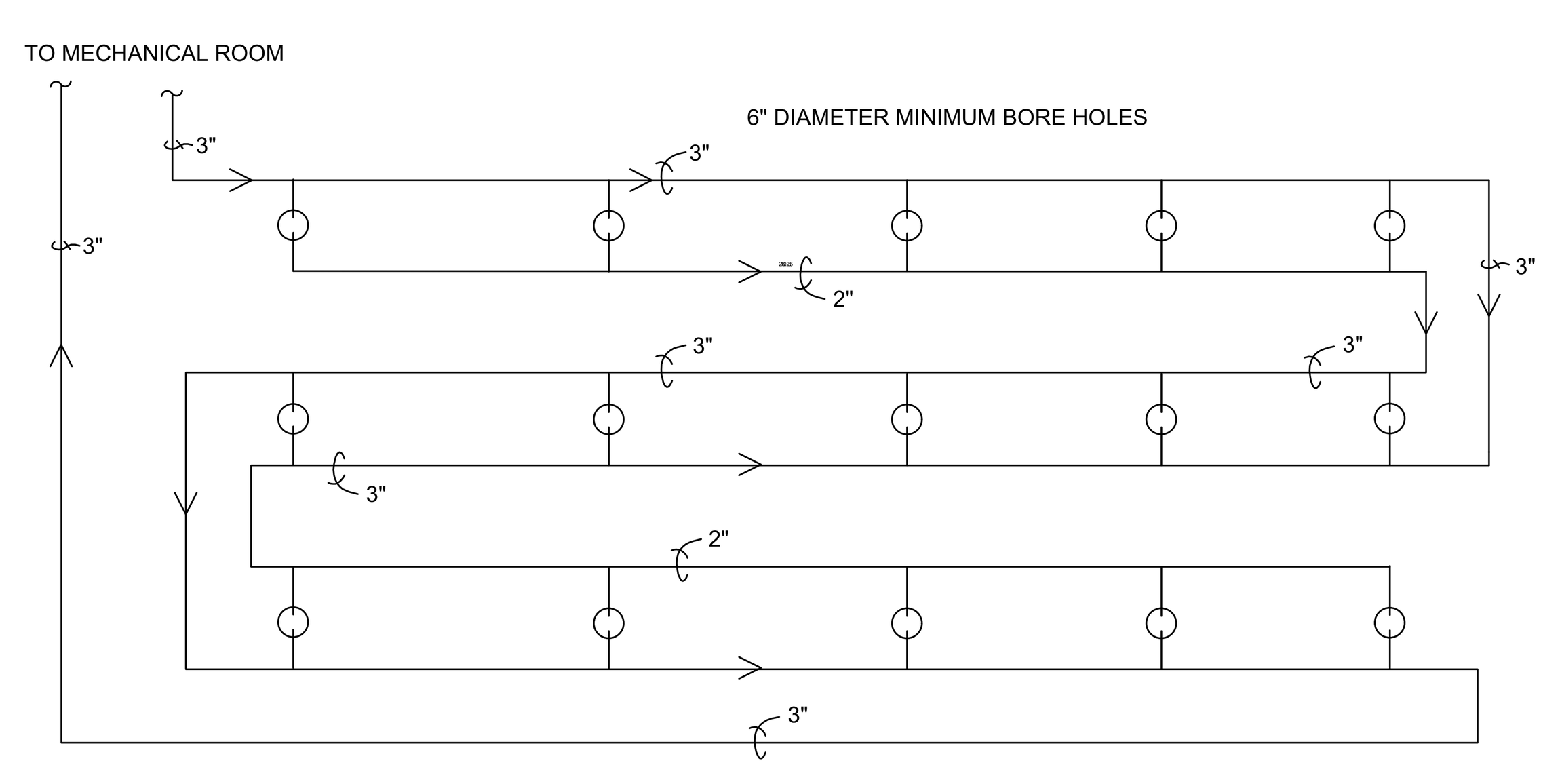
N.T.S



1 MECHANICAL SITE UTILITIES PLAN

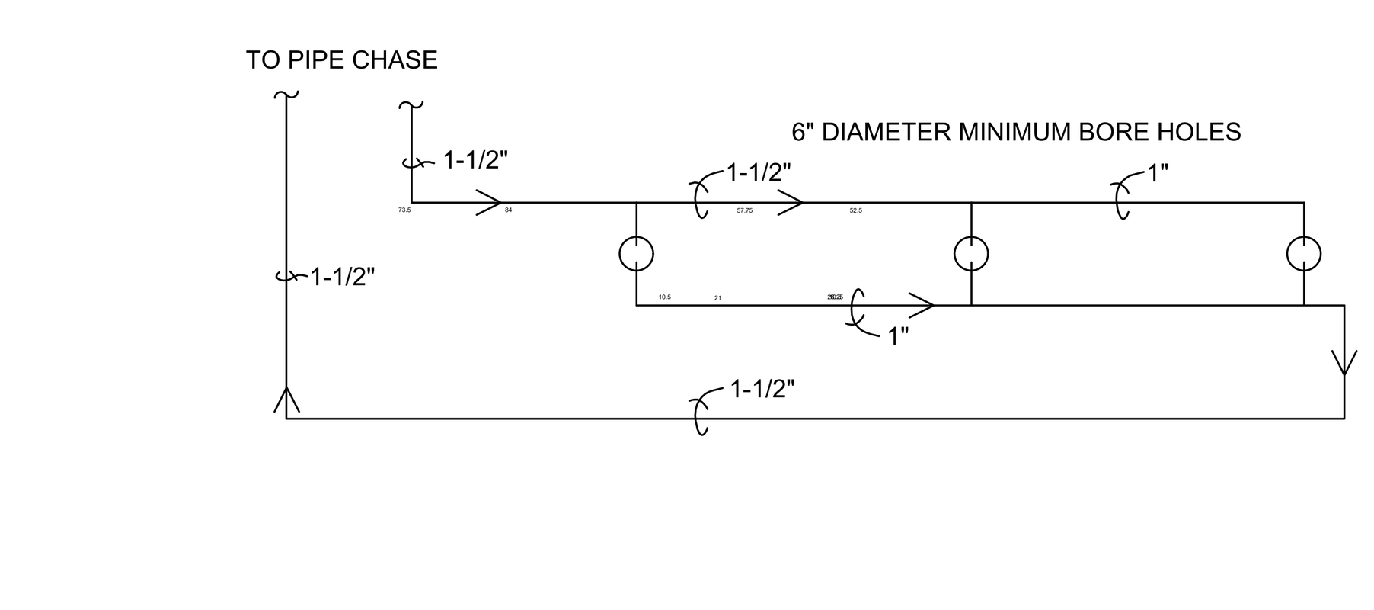
SCALE: 1"=20'-0"

0 20' 40'



3 GEOTHERMAL LOOP PIPING DIAGRAM

N.T.S.



4 GEOTHERMAL LOOP PIPING DIAGRAM

N.T.S.

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY COMPANIES AND SHALL LOCATE AND MARK ALL UNDERGROUND UTILITIES PRIOR TO BORING. CONTRACTOR SHALL ALSO HAVE THE MEANS TO LOCATE THE UTILITIES USING HIS OWN INSTRUMENTS. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED BACK TO ORIGINAL CONDITION WITHOUT COST TO THE OWNER.
2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE GEOTHERMAL WELL FIELD AND LATERALS WITH ALL OF THE OTHER PROPOSED SITE UTILITIES AND SITE DRAINAGE PRIOR TO INSTALLATION.
3. INSTALL GEOTHERMAL WELLS MIN. 20 FT. ON CENTER AND TO THE DEPTH INDICATED IN THE WELL FIELD SCHEDULE.
4. THE CONTRACTOR SHALL BRING THE DISTURBED AREAS OF THE WELL FIELD AND LATERALS BACK TO 12" OF FINAL GRADE.
5. REFER TO SHEET M-2.1 FOR BUILDING ENTRANCE LOCATION AND ADDITIONAL INFORMATION.

Kentucky 811

"KY BUD" BEFORE YOU DIG: (811)

UNDERGROUND UTILITY LOCATIONS WERE DETERMINED FROM SITE SURVEY AND VISUAL INSPECTION OF THE PROPERTY AND SHOULD BE CONSIDERED APPROXIMATE ONLY. CONTACT ALL INDIVIDUAL UTILITY COMPANIES AND "KY BUD" PRIOR TO BEGINNING ANY EXCAVATION.

⬡ SHEET KEYNOTES:

1. CONNECT NEW PIPING INTO EXISTING PIPING WHERE IT LEAVES BUILDING IN PLANTER BOX. FIELD VERIFY LOCATION OF EXISTING PIPES TO BE RECONNECTED. CONTRACTOR TO INCLUDE ADDITIONAL PIPE AND FITTINGS TO MAKE CONNECTION BACK TO EXISTING.
2. COORDINATE WELLS AND LATERALS WITH EXISTING WELL FIELD AND ALL OTHER TRADES.
3. NEW LINES INTO MECHANICAL ROOM. SEE SHEET M2.1 FOR CONTINUATION.

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

MECHANICAL SITE UTILITIES PLAN

JOB NO.	1759
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CHECKED	NM

REVISIONS

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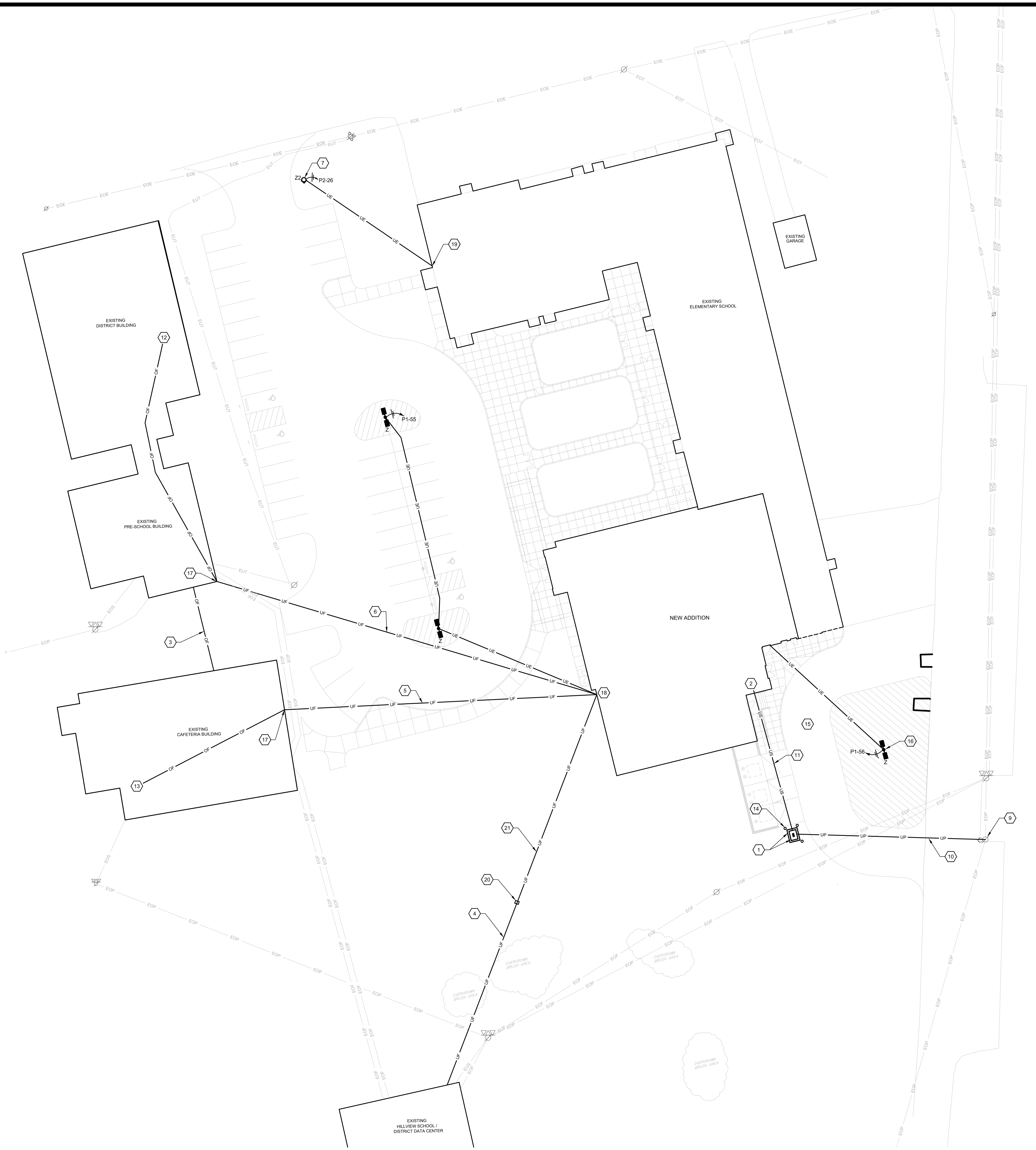
SHEET

U1.2



1 ELECTRICAL SITE UTILITIES PLAN

SCALE: 1"=20'-0"

PLAN NORTH

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.02.

SHEET KEYNOTES:

1. LOCATION OF KENTUCKY UTILITIES PAD-MOUNT UTILITY TRANSFORMER. COORDINATE CONCRETE PAD REQUIREMENTS AND TRANSFORMER INSTALLATION WITH LOCAL UTILITY.
2. APPROXIMATE LOCATION OF SERVICE ENTRANCE MDP.
3. NEW OVERHEAD FIRE ALARM CONNECTION BETWEEN CAFETERIA BUILDING AND PRE-SCHOOL BUILDING.
4. NEW DISTRICT DATA FIBER FROM DISTRICT DATA CENTER LOCATED IN HILLVIEW SCHOOL TO EARLY LEARNING CENTER MDF. FIBER OPTIC CABLE TO BE, 6 STRAND, MULTI-MODE, INDOOR/OUTDOOR RATED, PLENUM RATED, ARMORED. FIBER TO ROUTE THROUGH EXISTING CONCRETE STEAM TUNNEL FROM HILLVIEW TO NEW IN-GRADE PULLBOX, SEE NOTE 20 THIS SHEET.
5. NEW DISTRICT DATA FIBER CONNECTION FROM SCHOOL BUILDING TO CAFETERIA BUILDING. FIBER OPTIC CABLE TO BE, 6 STRAND, MULTI-MODE, INDOOR/OUTDOOR RATED, PLENUM RATED, ARMORED, IN 3" SCHEDULE 80 PVC CONDUIT.
6. NEW DISTRICT DATA FIBER CONNECTION FROM SCHOOL BUILDING TO PRE-SCHOOL BUILDING. FIBER OPTIC CABLE TO BE, 6 STRAND, MULTI-MODE, INDOOR/OUTDOOR RATED, PLENUM RATED, ARMORED, IN 3" SCHEDULE 80 PVC CONDUIT.
7. NEW FLAGPOLE FLOODLIGHT. REFER TO FLOODLIGHT MOUNTING DETAIL ON SHEET E5.1. COORDINATE EXACT FLAGPOLE LOCATION WITH ARCHITECTURAL, SITE.
8. INTERCEPT EXISTING FIBER FEED AT APPROXIMATELY THIS LOCATION. PROVIDE IN-GRADE, 13"WX24L"X12"D CONCRETE POLYMER PULL BOX, AND 3" SCHEDULE 80 PVC CONDUIT FROM PULLBOX TO NEW ADDITION.
9. PROVIDE UNDERGROUND PRIMARY RISER CONDUITS PER KENTUCKY UTILITIES REQUIREMENTS. CONDUITS MUST COME UP ON BACK SIDE OF POLE TO MATCH EXISTING.
10. PROVIDE (2) 4" SCHEDULE 40, PVC CONDUITS WITH PULL STRINGS FOR PRIMARY CONDUCTORS TO BE PULLED BY LOCAL UTILITY. ELBOWS TO BE SCHEDULE 80 PVC, UTILIZE LONG SWEEPS, 42" MINIMUM BURY. COORDINATE INSTALLATION WITH UTILITY.
11. REFER TO POWER ONE-LINE DIAGRAM FOR SECONDAY INFORMATION. PROVIDE 36" MINIMUM BURY.
12. ROUTE FIBER TO BUILDING IDF CLOSET. FIELD VERIFY EXACT LOCATION OF IDF CLOSET WITH OWNER PRIOR TO ROUTING. OWNER IS CURRENTLY IN PROCESS OF MOVING IDF LOCATION.
13. ROUTE FIBER TO BUILDING IDF CLOSET. FIELD VERIFY EXACT LOCATION OF IDF CLOSET WITH OWNER PRIOR TO ROUTING.
14. PROVIDE 4' STEEL, CONCRETE FILLED, SAFETY BOLLARDS TO PROTECT TRANSFORMER. PROVIDE QUANTITY AS INDICATED ON PLAN. COORDINATE BOLLARD PLACEMENT WITH UTILTIY COMPANY. COORDINATE BOLLARD COLOR WITH ARCHITECT.
15. COORDINATE UNDERGROUND ELECTRIC ROUTING IN THIS PAVED AREA WITH NEW GEOTHERMAL WELLS BEING PROVIDED. COORDINATE WITH OTHER TRADES.
16. COORDINATE LIGHT POLE BASE LOCATION WITH GEOTHERMAL WELLS BEING PROVIDED IN THIS AREA.
17. FIBER TO LB INTO EXISTING BUILDING ABOVE ACCESSIBLE CEILING. ROUTE ABOVE CEILING TO BUILDING IDF RACK. PROVIDE J-HOOK SUPPORTS ABOVE ACCESSIBLE CEILING. IN OPEN CEILING AREAS AND ABOVE INACCESSIBLE CEILING PROVIDE EMT CONDUIT PATHWAY FOR FIBER.
18. UNDERGROUND FIBER CONDUITS TO STUB OUT THROUGH SLAB IN STORAGE ROOM 127. APPROXIMATELY THIS LOCATION. KEEP STUB OUTS TIGHT TO EXTERIOR WALL.
19. FLAGPOLE LIGHT CIRCUIT TO LB INTO EXISTING BUILDING ABOVE ACCESSIBLE CEILING IN CORRIDOR.
20. PROVIDE IN-GRADE POLYMER CONCRETE PULL-BOX, 11"W, 18"L, 12"D, LOAD RATING TIER 5, PG STYLE, WITH LABELED COVER THAT READS "FIBER", AS MANUFACTURED BY QUAZITE OR EQUAL.
21. FROM PULLBOX TO NEW ADDITION NEW DISTRICT DATA FIBER TO ROUTE THROUGH NEW 3", SCHEDULE 80, PVC CONDUIT FROM NEW IN-GRADE PULLBOX TO NEW ADDITION OF ELEMENTARY SCHOOL.

SHERMAN CARTER BARNHART ARCHITECTS

STATE OF KENTUCKY WHITLEY C. CASEY 25711 LICENSED PROFESSIONAL ENGINEER 12/12/19

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

ELECTRICAL SITE UTILITIES PLAN

JOB NO.	1759
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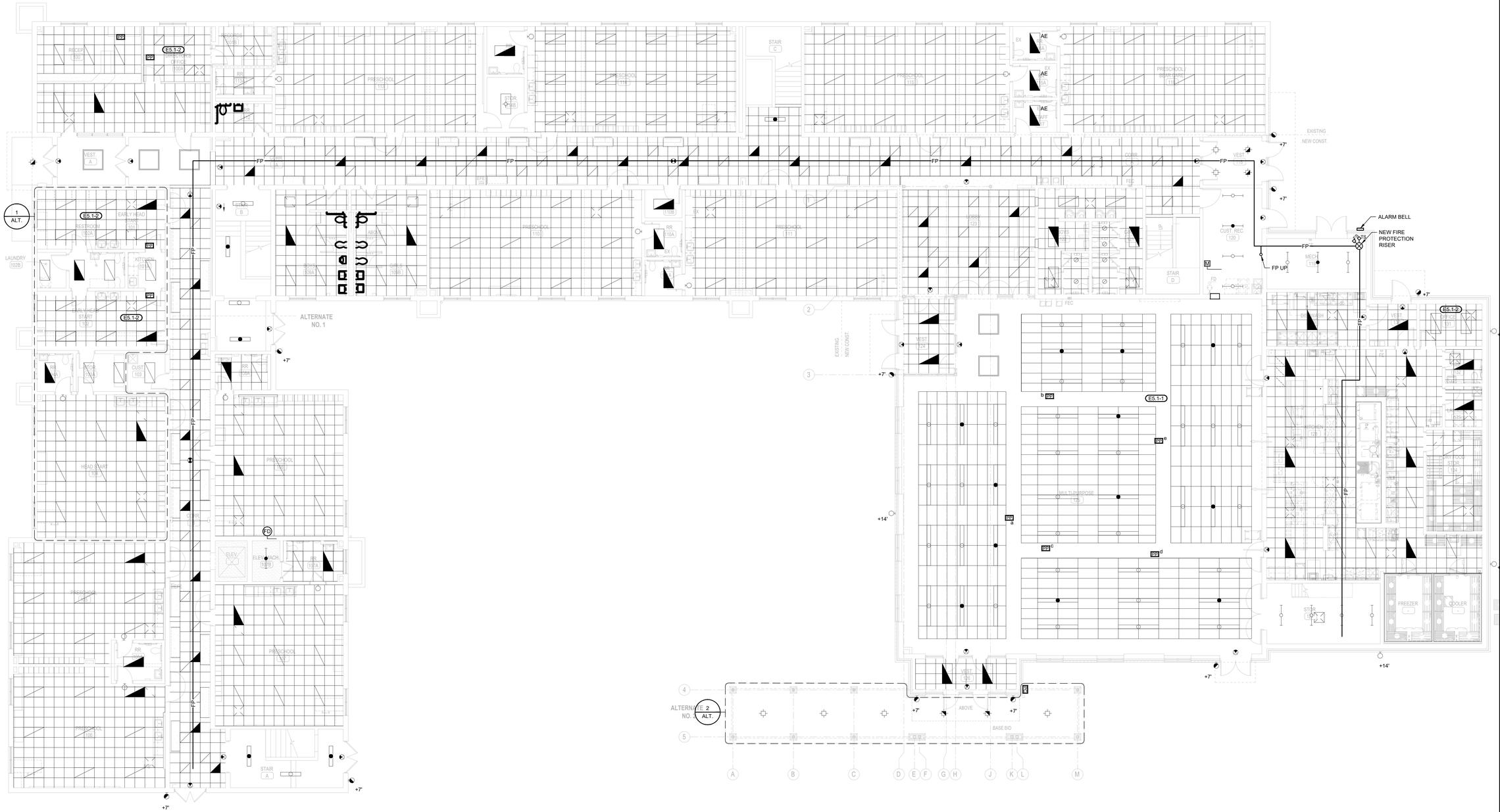
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

U1.3



1 OVERALL FIRST FLOOR NEW WORK PLAN - FIRE PROTECTION

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

FIRE PROTECTION GENERAL NOTES

1. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
2. ALL FIRE-SUPPRESSION WORK SHALL BE PERFORMED BY A LICENSED FIRE-SUPPRESSION CONTRACTOR WITH A MINIMUM OF 5 YEARS EXPERIENCE DESIGN AND ERECTING FIRE-SUPPRESSION SYSTEMS.
3. PROVIDE A COMPLETE FIRE-SUPPRESSION SYSTEM INCLUDING MODIFICATIONS TO EXISTING WORK, NEW PIPING AND ACCESSORIES, AND TESTING AS REQUIRED TO MEET ALL PROVISIONS OF THE KENTUCKY BUILDING CODE AND ALL APPLICABLE NFPA CODES.
4. THE FIRE-SUPPRESSION CONTRACTOR SHALL HYDRAULICALLY DESIGN AND SIZE THE MAIN SERVICE AND SPRINKLER SYSTEM TO FULLY PROTECT THE ENTIRE BUILDING IN COMPLIANCE WITH THE KENTUCKY BUILDING CODE, NFPA-13, NFPA-14, NFPA-20, NFPA-24, AND LOCAL CODES. THE FIRE-SUPPRESSION CONTRACTOR SHALL PROVIDE AND SUBMIT DRAWINGS AND HYDRAULIC CALCULATIONS TO THE MECHANICAL ENGINEER FOR REVIEW AND THE STATE FOR CODE APPROVAL.
5. FIRE-SUPPRESSION CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS AND SHALL COORDINATE ROUTING AND INSTALLATION WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL IN THE LAY-OUT OF SPRINKLER PIPING AND HEADS. COORDINATE HEAD TYPES WITH ARCHITECTURAL CEILING TYPES. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY. DO NOT MOUNT SPRINKLER HEADS OR HANG PIPING SO AS TO BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 36" CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC. FIRE-SUPPRESSION CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL FIRE-SUPPRESSION WORK WITH THE GENERAL CONTRACTOR AND ACCOMMODATE CONSTRUCTION PHASING REQUIREMENTS AND ALL OTHER TRADES AS REQUIRED.
6. CENTER SPRINKLER HEADS (EACH WAY) IN CEILING TILES. SPRINKLER HEADS SHALL BE CENTERED IN 2'x 2' SECTIONS OF 2'x 4' CEILING TILES WHERE INSTALLED IN A LAY-IN CEILING. REFER TO FIRE-SUPPRESSION DETAILS FOR CLARIFICATION. REFER TO ARCHITECTURAL FOR FINAL REFLECTED CEILING PLANS TO CLARIFY CEILING TYPES AND CEILING GRIDS. COORDINATE HEAD LOCATIONS WITH LIGHTING AND AIR DEVICES.
7. INSTALL CAPPED DRAIN VALVES AND ANY AND ALL ADDITIONAL DRAIN VALVES AS REQUIRED TO COMPLETELY DRAIN THE FIRE-SUPPRESSION SYSTEM. INSTALL ALL REQUIRED DRAIN PIPING TO FLOW TEST POINTS. DISCHARGE ALL DRAIN PIPING TO OUTDOORS OR TO AN APPROVED LOCATION. PROVIDE LISTED AIR RELEASE FOR ALL TRAPPED RUNS OF FIRE-SUPPRESSION PIPING.
8. ALL FIRE-SUPPRESSION COMPONENTS INCLUDING BUT NOT LIMITED TO VALVES, PIPE, FITTINGS, CONTROL SYSTEMS, AND TRIM SHALL BE UL AND/OR FM LISTED FOR FIRE SERVICE AS REQUIRED BY THE KENTUCKY BUILDING CODE AND/OR THE AUTHORITY HAVING JURISDICTION.
9. PROVIDE GUARDS AND/OR SPECIAL HEADS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL DESIGN AND INSTALLATION AND AS REQUIRED TO COMPLY WITH NFPA-13. PROVIDE HIGH TEMPERATURE HEADS FOR AREAS NEAR SPACE HEATING OUTLETS AND EQUIPMENT AS REQUIRED.
10. NEW OPENINGS FOR FIRE-SUPPRESSION ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE FIRE-SUPPRESSION CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO HAMMER DRILLING WILL BE ALLOWED.
11. INSTALL FIRE/SMOKE STOPPING FOR ALL FIRE-SUPPRESSION PIPING PENETRATIONS THRU FIRE/SMOKE RATED ASSEMBLIES INCLUDING BUT NOT LIMITED TO PARTITIONS, WALLS, AND SLABS. ALL PENETRATION INSTALLATIONS SHALL BE CONSTRUCTED PER AN APPROVED UL AND/OR FM LISTED PENETRATION ASSEMBLY. THE FIRE-SUPPRESSION CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS FOR SPRINKLER PIPING WITH THE GENERAL CONTRACTOR AND OTHER TRADES AS REQUIRED FOR A COMPLETE INSTALLATION.
12. CERTAIN AREAS ON THE DRAWINGS MAY ILLUSTRATE A SPRINKLER HEAD TYPE AND/OR LOCATION. THE INTENT WITH THIS SCENARIO IS TO ILLUSTRATE CONCEPTUAL REQUIREMENTS. ANY ADDITIONAL HEADS THAT MAY BE REQUIRED TO COMPLY WITH NFPA-13 IS THE RESPONSIBILITY OF THE FIRE-SUPPRESSION CONTRACTOR. ALL AREAS NOT SHOWN TO BE SPRINKLERED BUT REQUIRED TO BE SPRINKLERED PER NFPA-13 SHALL BE SPRINKLERED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND AS PART OF THE DELEGATED DESIGN AND INSTALLATION PROCESS.

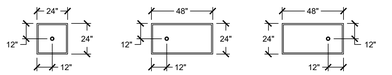
HEAD TYPES

ALL FIRE SUPPRESSION AREAS TO BE QUICK RESPONSE

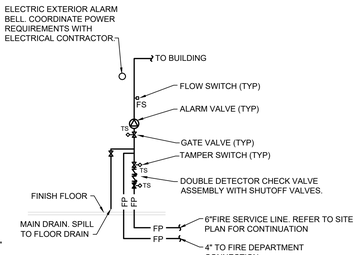
WHITE FULLY RECESSED POP DOWN TYPE SPRINKLER HEADS IN ALL ROOMS WITH CEILING TILES OR DRYWALL CEILINGS

UPRIGHT SPRINKLER HEADS IN ALL ROOMS WITH NO CEILINGS (MECHANICAL ROOMS, ETC)

REFER TO ARCHITECTURAL CEILING PLANS. COORDINATE SPRINKLER PIPING WITH DUCTWORK, DIFFUSERS, LIGHTING, STRUCTURAL AND ALL OTHER TRADES PRIOR TO INSTALLATION



HEAD PLACEMENT IN ACOUSTICAL TILE



ALARM VALVE RISER DETAIL

SC: NONE

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

FIRST FLOOR NEW WORK PLAN - FIRE PROTECTION

JOB NO.	1759
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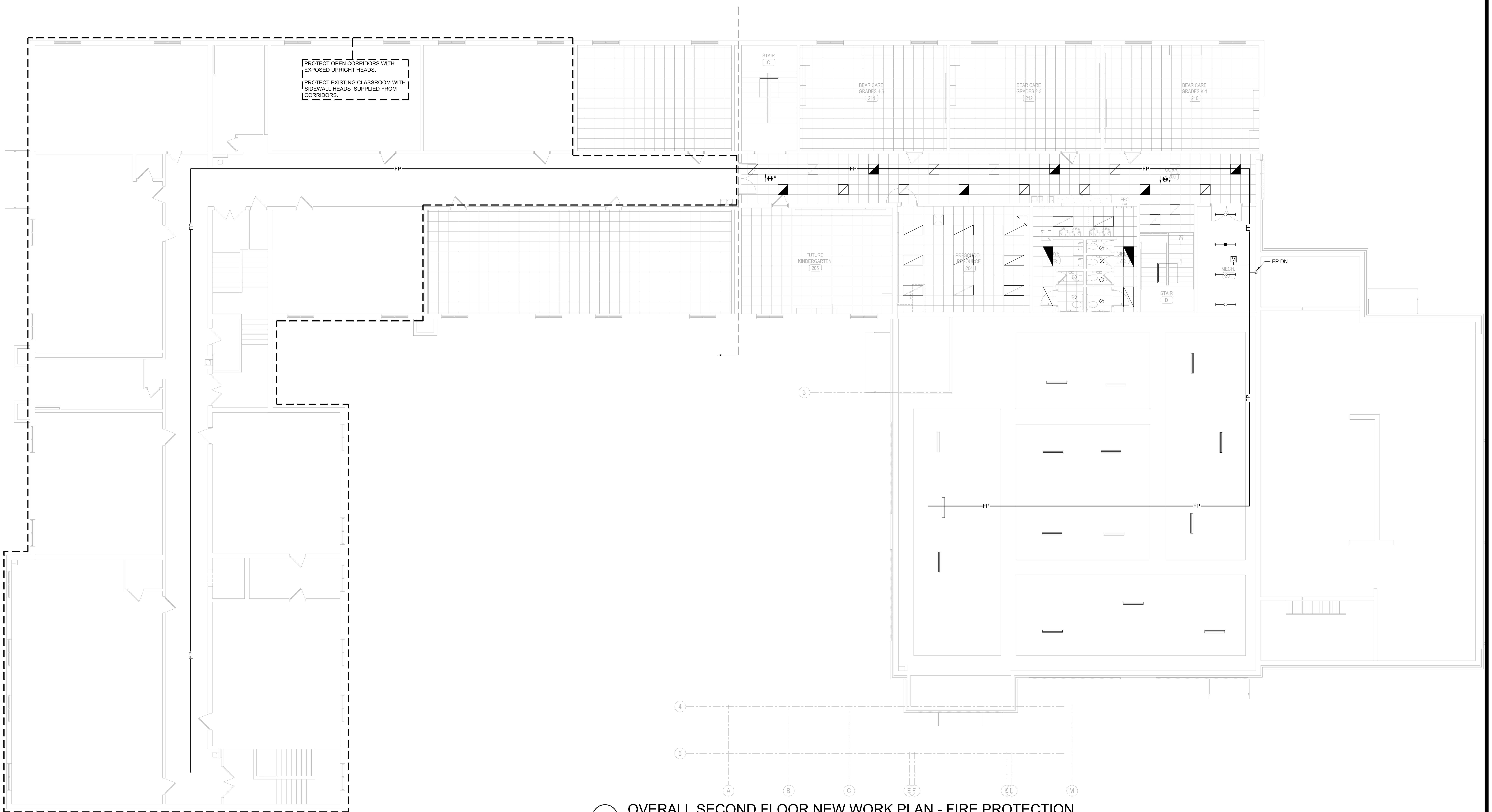
FP1.1



1 OVERALL SECOND FLOOR NEW WORK PLAN - FIRE PROTECTION

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

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SECOND FLOOR NEW WORK PLAN - FIRE PROTECTION

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DRAWN	MM
CHECKED	NM

REVISIONS

No.	Description	Date

SHEET

FP1.2

PLUMBING LEGEND

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	TEE DOWN
	TEE UP
	CONTINUATION
	CAP
	HAMMER ARRESTOR
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	ELECTRIC CONTROL VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	GATE VALVE
	PLUG VALVE
	REDUCER
	UNION
	VALVE IN VERTICAL
	PRESSURE GAUGE
	STRAINER
	FLOW INDICATOR
	CLEANOUT
	FLOOR CLEANOUT
	THERMOMETER
	RECIRC. BALANCING STATION
FS	FLOW SWITCH
TS	TAMPER SWITCH ON VALVE
	PUMP, INLINE
	SUMP PUMP
	GAS METER
W	WATER METER
TB	THRUST BLOCK
R	GAS REGULATOR
	FLOOR DRAIN
	P-TRAP
	FLOOR DRAIN GRATE
TS	FLOOR DRAIN GRATE
XX	SHEET NOTE
XX	DEMOLITION NOTE
	CONNECT NEW TO EXISTING
	EXTENT OF DEMOLITION
XX-XX	EQUIPMENT TAG
RISER X PX.XX	RISER IDENTIFICATION TAG

ABBREVIATIONS

ADP	ACID DILUTION PIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AIR GAP
AV	ACID VENT
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CFH	CUBIC FEET/HOUR
CI	CAST IRON
CRD	COMBINATION ROOF DRAIN
CO	CLEANOUT
CON	CONDENSATE
CW	COLD WATER
D	DISPOSAL
DD	DECK DRAIN
DI	DUCTILE IRON
DF	DRINKING FOUNTAIN
DSN	DOWNSPOUT NOZZLE
ECO	EXTERIOR CLEANOUT
EEW	EMERGENCY EYE WASH
ESEW	EMERGENCY SHOWER / EYE WASH
ET	EXPANSION TANK
ETP	ELECTRONIC TRAP PRIMER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FS	FLOW SWITCH
G	NATURAL GAS
GPM	GALLONS PER MINUTE
GR	GREASE
GRV	GREASE VENT
GT	GREASE TRAP
GWH	GAS WATER HEATER
HA	HAMMER ARRESTOR
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
IMB	ICE MAKER BOX
L/LAV	LAVATORY
LPG	LIQUID PETROLEUM GAS
LT	LAUNDRY TUB
MA	MEDICAL AIR
MB	MOP BASIN
MBH	1,000 BTU
MG	MEDICAL GAS
MH	MANHOLE
MIN	MINIMUM
MS	MOP SINK
N2	NITROGEN
O2	OXYGEN
OR	OPEN RECEPTACLE
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW ROOF LEADER
OWS	OIL WATER SEPARATOR
PD	PUMP DISCHARGE
PDI	PLUMBING DRAINAGE INSTITUTE

ABBREVIATIONS CONT.

PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	PLASTER TRAP
RBS	RECIRC. BALANCE STATION
RD	ROOF DRAIN
RL	ROOF LEADER
RP	RECIRCULATION PUMP
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SINK
SAN	SANITARY
SCO	STACK CLEANOUT
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORAGE TANK
STM	STORM
TB	THRUST BLOCK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
T&P	TEMPERATURE & PRESSURE
TS	TAMPER SWITCH
U	URINAL
UT	UTILITY TUB
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WB	WASHER BOX
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WS	WASH STATION
WS	WATER SOFTENER
X	EXISTING

PLUMBING LINETYPES

SYMBOL	DESCRIPTION
1"CW	UNDER SLAB COLD WATER PIPING WITH SIZE
1"CW	COLD WATER PIPING WITH SIZE
1"HW	HOT WATER PIPING WITH SIZE
1"HWR	HOT WATER RETURN PIPING WITH SIZE
1"SAN	UNDER SLAB SANITARY PIPING WITH SIZE
1"SAN	SANITARY PIPING WITH SIZE
1"V	UNDER SLAB VENT PIPING WITH SIZE
1"V	VENT PIPING WITH SIZE
1"GR	UNDER SLAB GREASE PIPING WITH SIZE
1"GRV	UNDER SLAB GREASE VENT PIPING WITH SIZE
1"GRV	GREASE VENT PIPING WITH SIZE
1"AW	UNDER SLAB ACID WASTE PIPING WITH SIZE
1"AW	ACID WASTE PIPING WITH SIZE
1"AV	UNDER SLAB ACID VENT PIPING WITH SIZE
1"AV	ACID VENT PIPING WITH SIZE
1"RL	ROOF LEADER PIPING WITH SIZE
1"STM	UNDER SLAB STORM WITH SIZE
1"G	UNDER SLAB GAS PIPING WITH SIZE (SLEEVED)
1"G	GAS PIPING WITH SIZE
1"TW	TEMPERED WATER PIPING WITH SIZE

GENERAL NOTES - PLUMBING:

1. CONSTRUCTION PHASING: ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE GENERAL CONTRACTOR, OTHER TRADES, THE OWNER, RELATED UTILITY COMPANIES SHALL COINCIDE WITH CONSTRUCTION PHASING PER THE ARCHITECTURAL DOCUMENTS. CONTACT THE ARCHITECT/ENGINEER IN THE EVENT OF A CONFLICT.
2. NEW UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW UTILITY SERVICES AND COSTS UNDER THIS CONTRACT. COORDINATE AND SCHEDULE ALL RELATED WORK WITH THE UTILITY COMPANIES.
3. MAINTAIN SITE UTILITIES: THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SITE UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE ANY OUTAGE. SCHEDULED SHUT-DOWNS SHALL REQUIRE 48 HOUR PRIOR NOTIFICATION WITH OWNER. COORDINATE ALL RELATED WORK WITH THE OWNER AND THE UTILITY COMPANIES AS REQUIRED.
4. VERIFY UTILITIES: FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE REQUIRED FOR CONNECTIONS OF NEW WORK PRIOR TO CONSTRUCTION AND FABRICATION. DOCUMENT ON THE AS-BUILT DRAWINGS; THE TYPE, SIZE, MATERIAL, LOCATION AND INVERT ELEVATIONS OF ALL UTILITIES ENCOUNTERED. COORDINATE ALL RELATED WORK WITH ALL PARTIES INVOLVED. CONTACT THE ENGINEER IN THE EVENT OF A CONFLICT.
5. CONTACT B.U.D.: THE EXISTING UTILITIES, EQUIPMENT, AND PIPING SHOWN ON THESE DRAWINGS ARE FROM RECORD DRAWINGS AND VISUAL INSPECTION OF THE SITE. THE NUMBER, LOCATION, SIZE, AND TYPE OF UTILITIES SHOWN ARE APPROXIMATE, AND THERE MAY BE OTHER UTILITIES NOT SHOWN. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITY COMPANIES AND KENTUCKY B.U.D. PRIOR TO BEGINNING EXCAVATION.
6. PERMITS, TESTING, AND INSPECTIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, TESTING AND SCHEDULES INSPECTIONS.
7. REMOVAL OF EXISTING UTILITIES: REMOVE UNUSED/ABANDONED EQUIPMENT, PIPING, ETC. AS NECESSARY TO INSTALL THE NEW WORK. CAP THE ENDS OF ALL LINES AND ABANDONED IN PLACE.
8. TEMPORARY CONSTRUCTION HEAT: PROVIDE TEMPORARY HEAT IN CONSTRUCTION AREAS AS REQUIRED TO PREVENT FREEZING OF WATER PIPING DURING CONSTRUCTION.
9. PATCHING AND REPAIRING: PATCH AND REPAIR ALL AREAS WHERE WALLS, SLABS, PAVEMENT, CURBS, VEGETATION AND MATERIALS HAVE BEEN CUT, REMOVED, DISTURBED AND OR MODIFIED. MATCH EXISTING MATERIALS, RATINGS, AND FINISHES.
10. CUTTING EXISTING MATERIALS: CUTTING OF EXISTING PAVEMENT, SLABS, CONCRETE MASONRY, WALLS, ETC. SHALL BE SAW-CUT OR CORE DRILLED. NO "HAMMER DRILLING" WILL BE ALLOWED.
11. ROOFING PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES, THE AMERICAN ROOFING COUNCIL, AND MAINTAIN ALL WARRANTIES.
12. WALL PENETRATIONS: SEAL ALL PIPING PENETRATIONS THROUGH EXTERIOR WALLS WITH SILICONE SEALANT AS REQUIRED TO MAKE WATER/WEATHER TIGHT.
13. EXISTING WALL OPENINGS: EXISTING OPENINGS IN WALLS THAT ARE NOT BEING RE-USED SHALL BE PATCHED/CLOSED BY THE GENERAL CONTRACTOR.
14. NEW OPENINGS: NEW OPENINGS FOR PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
15. FIRE AND SMOKE STOPPING: ALL PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
16. INSULATION: INSULATE ALL DOMESTIC HOT/COLD WATER, RECIRCULATION PIPING, AND ROOF LEADERS.
17. HAMMER ARRESTOR: ALL HAMMER ARRESTORS SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA SHALL BE PROVIDED AND INSTALLED AS SHOWN ON BOTH.
18. VALVES: ALL VALVES SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA, SHALL BE PROVIDED AND INSTALLED AS IF SHOWN ON BOTH.
19. ELECTRICAL PANELS AND EQUIPMENT: PLUMBING PIPING, SYSTEMS, AND EQUIPMENT SHALL BE INSTALLED TO MAINTAIN THE DEDICATED WORKING/ELECTRICAL SPACE ABOVE, BELOW, AND IN FRONT OF ELECTRICAL PANELS AND EQUIPMENT PER THE REQUIREMENTS OF THE N.E.C. (NATIONAL ELECTRIC CODE).

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PLUMBING LEGEND

JOB NO.	1759
DATE	12/16/19
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CHECKED	NM

REVISIONS

No.	Description	Date

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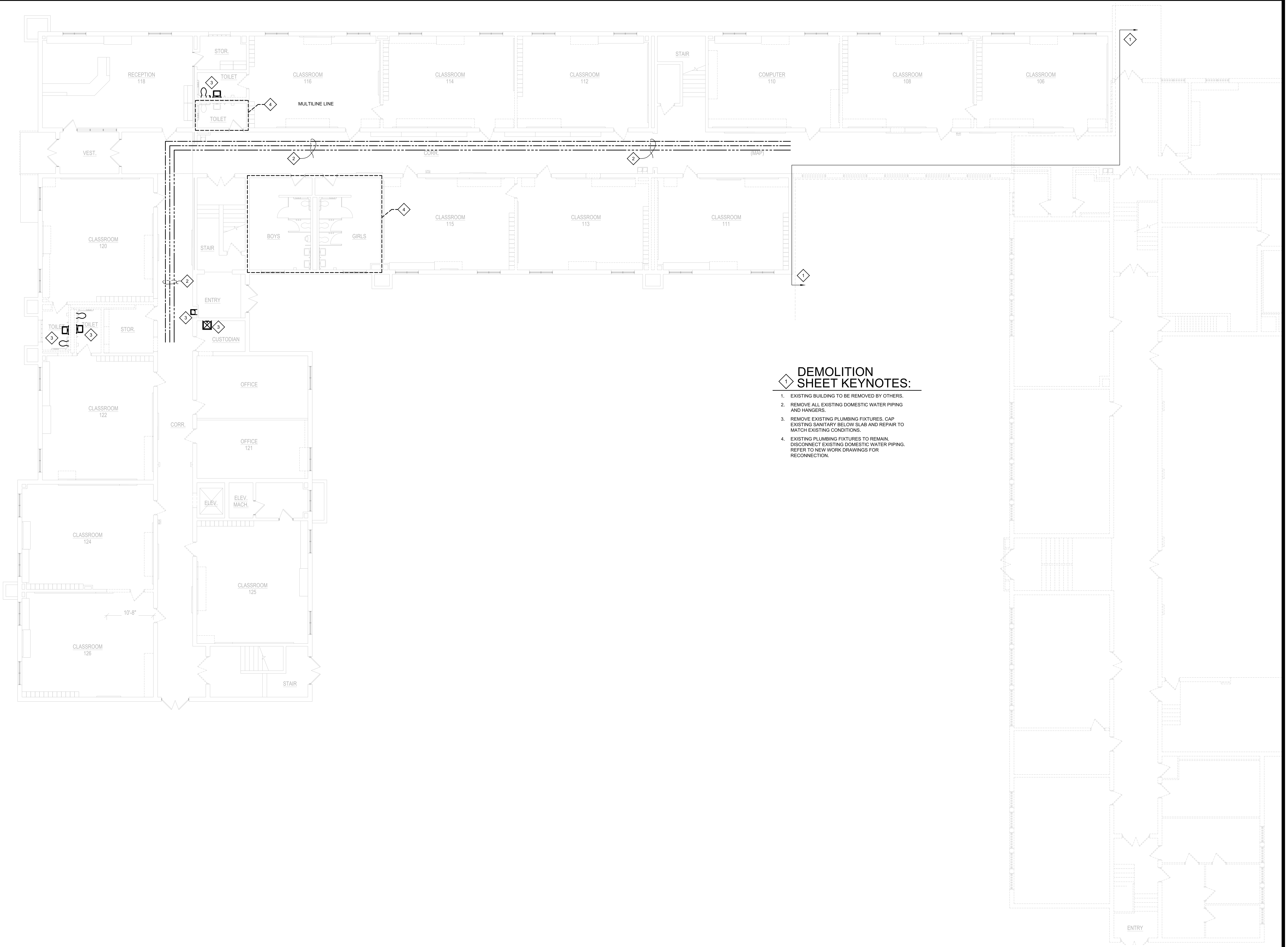
P0.1



DEMOLITION SHEET KEYNOTES:

1. EXISTING BUILDING TO BE REMOVED BY OTHERS.
2. REMOVE ALL EXISTING DOMESTIC WATER PIPING AND HANGERS.
3. REMOVE EXISTING PLUMBING FIXTURES. CAP EXISTING SANITARY BELOW SLAB AND REPAIR TO MATCH EXISTING CONDITIONS.
4. EXISTING PLUMBING FIXTURES TO REMAIN. DISCONNECT EXISTING DOMESTIC WATER PIPING. REFER TO NEW WORK DRAWINGS FOR RECONNECTION.

1 FIRST FLOOR DEMOLITION PLAN - PLUMBING

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

0 4' 8' 16'

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FIRST FLOOR DEMOLITION PLAN - PLUMBING

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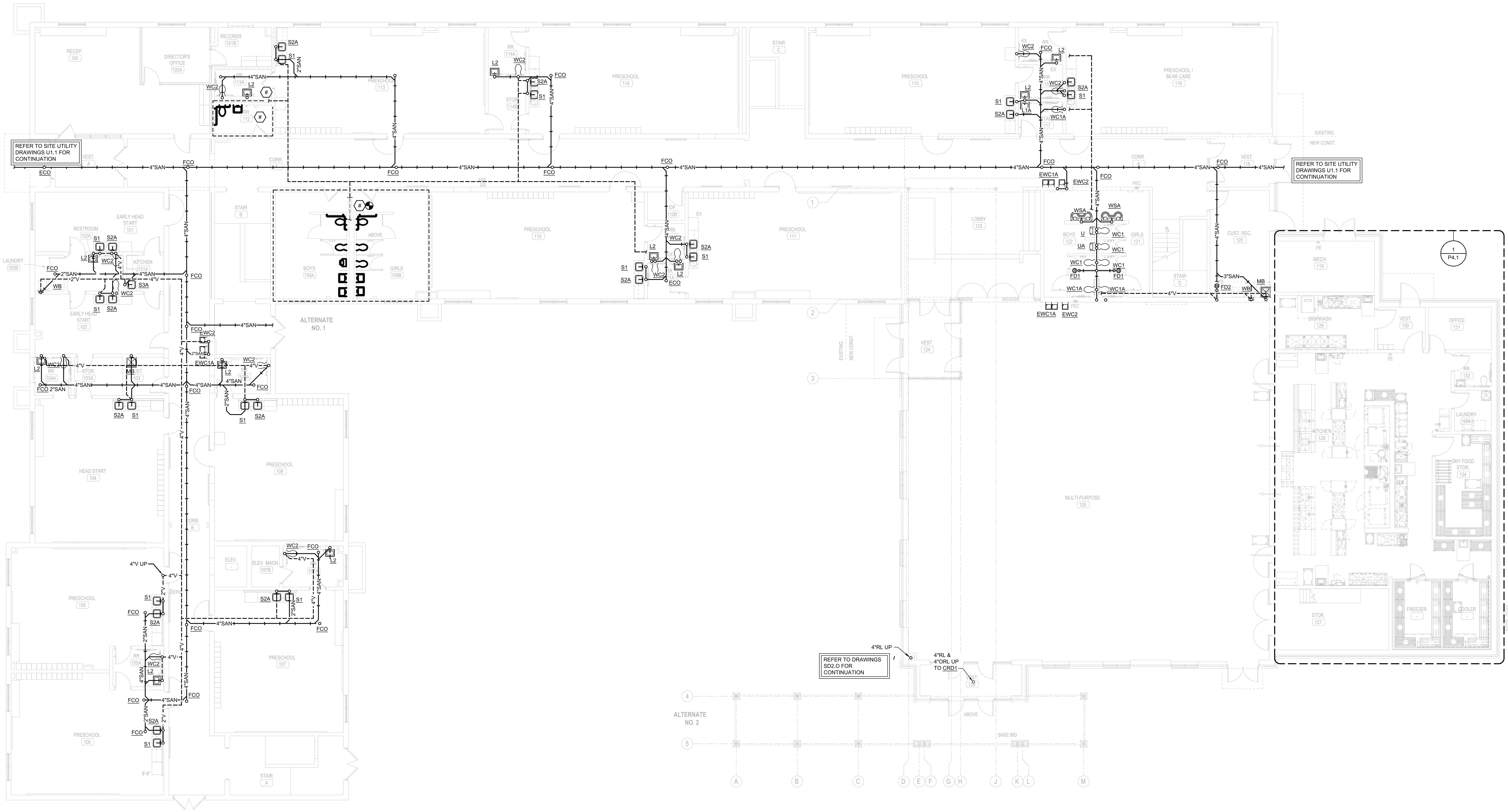

1 FIRST FLOOR NEW WORK PLAN - SANITARY SEWER

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

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FIRST FLOOR NEW WORK PLAN - SANITARY SEWER

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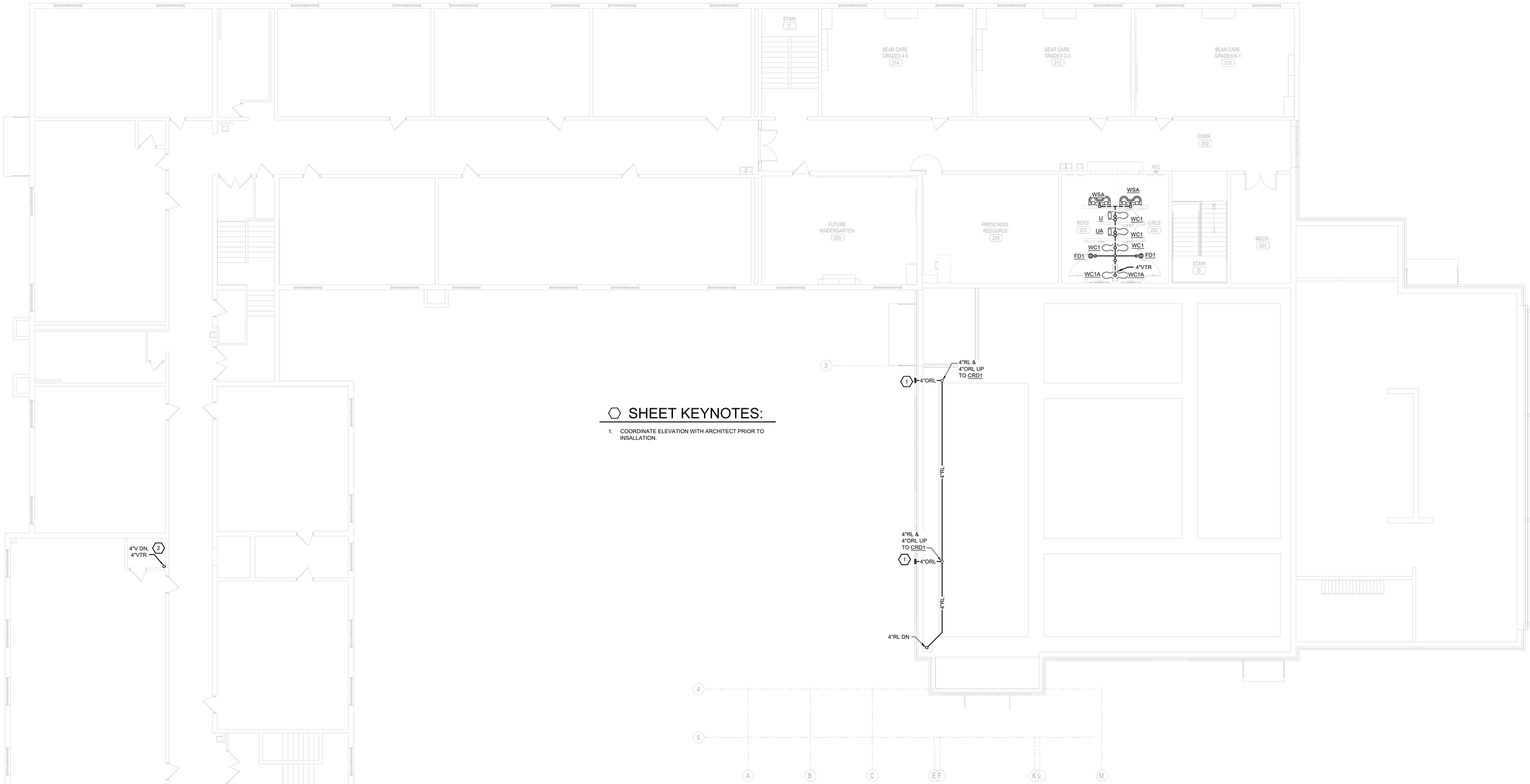

SHEET KEYNOTES:

1. COORDINATE ELEVATION WITH ARCHITECT PRIOR TO INSALLATION.

1 SECOND FLOOR NEW WORK PLAN - SANITARY SEWER

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

0 4' 8' 16'

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SECOND FLOOR NEW WORK PLAN - SANITARY SEWER

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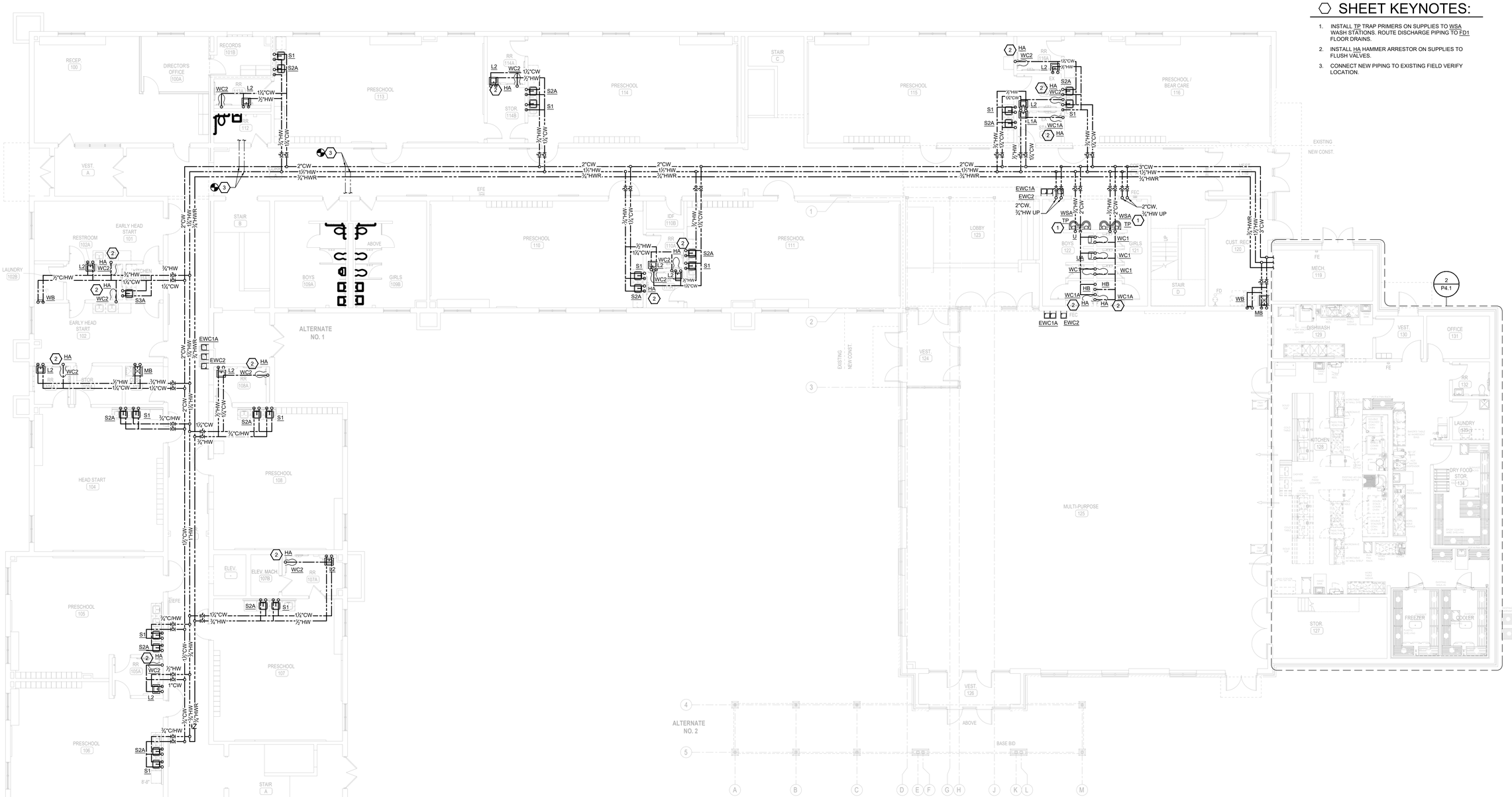
P1.2

GENERAL NOTES:

1. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS ABOVE CEILING. LABEL CEILING GRID AT VALVE LOCATIONS. PROVIDE AP ACCESS PANELS AT VALVE LOCATION ABOVE HARD CEILING.

SHEET KEYNOTES:

1. INSTALL TP TRAP PRIMERS ON SUPPLIES TO WSA WASH STATIONS. ROUTE DISCHARGE PIPING TO FD1 FLOOR DRAINS.
2. INSTALL HA HAMMER ARRESTOR ON SUPPLIES TO FLUSH VALVES.
3. CONNECT NEW PIPING TO EXISTING FIELD VERIFY LOCATION.



1 FIRST FLOOR NEW WORK PLAN - DOMESTIC WATER

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

0 4' 8' 16'

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FIRST FLOOR NEW WORK PLAN - DOMESTIC WATER

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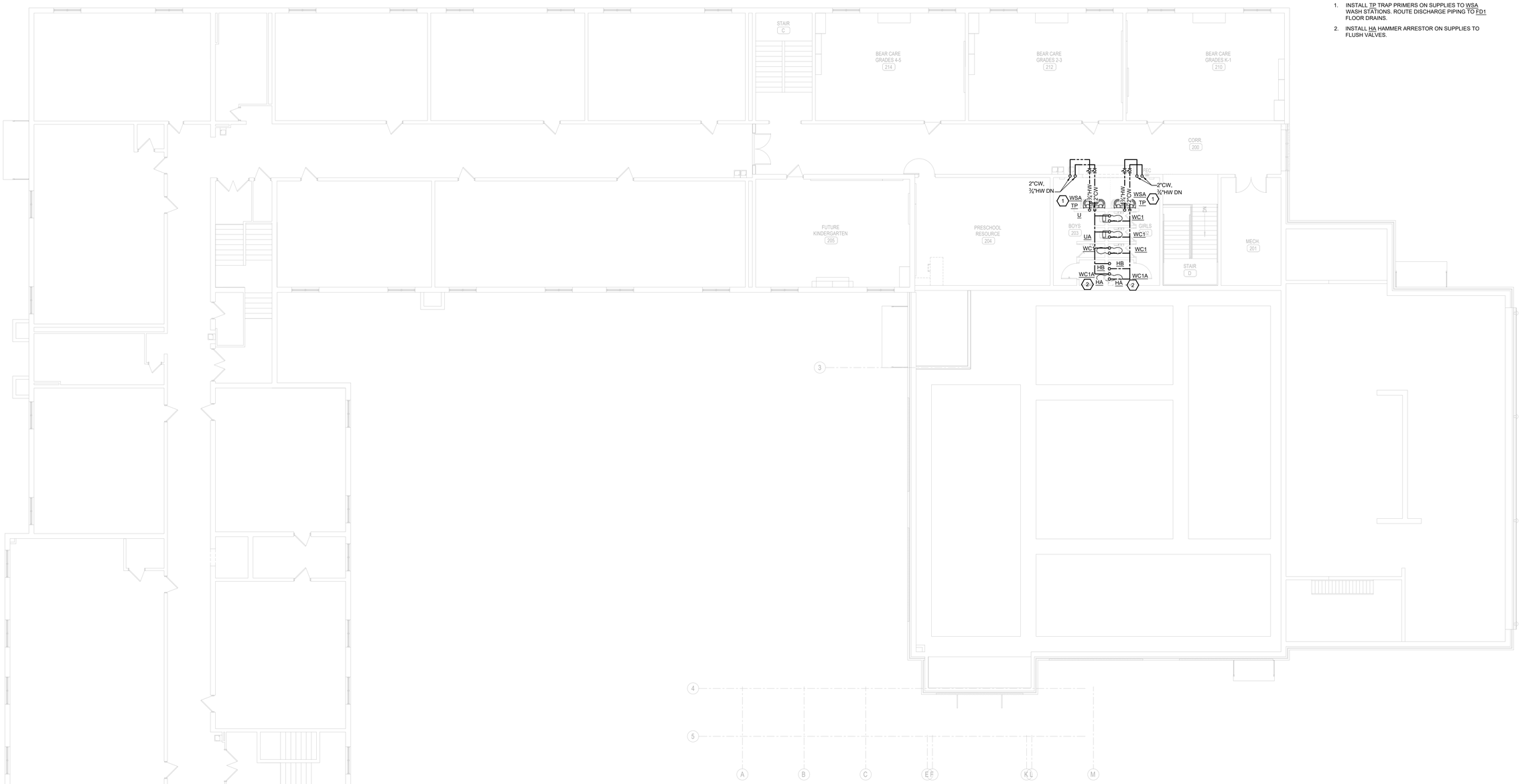
P2.1

GENERAL NOTES:

1. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS ABOVE CEILING. LABEL CEILING GRID AT VALVE LOCATIONS. PROVIDE AP ACCESS PANELS AT VALVE LOCATION ABOVE HARD CEILING.

⬡ SHEET KEYNOTES:

1. INSTALL TP TRAP PRIMERS ON SUPPLIES TO WSA WASH STATIONS. ROUTE DISCHARGE PIPING TO FD1 FLOOR DRAINS.
2. INSTALL HA HAMMER ARRESTOR ON SUPPLIES TO FLUSH VALVES.



1 SECOND FLOOR NEW WORK PLAN - DOMESTIC WATER

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

0 4' 8' 16'

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SECOND FLOOR NEW WORK PLAN - DOMESTIC WATER

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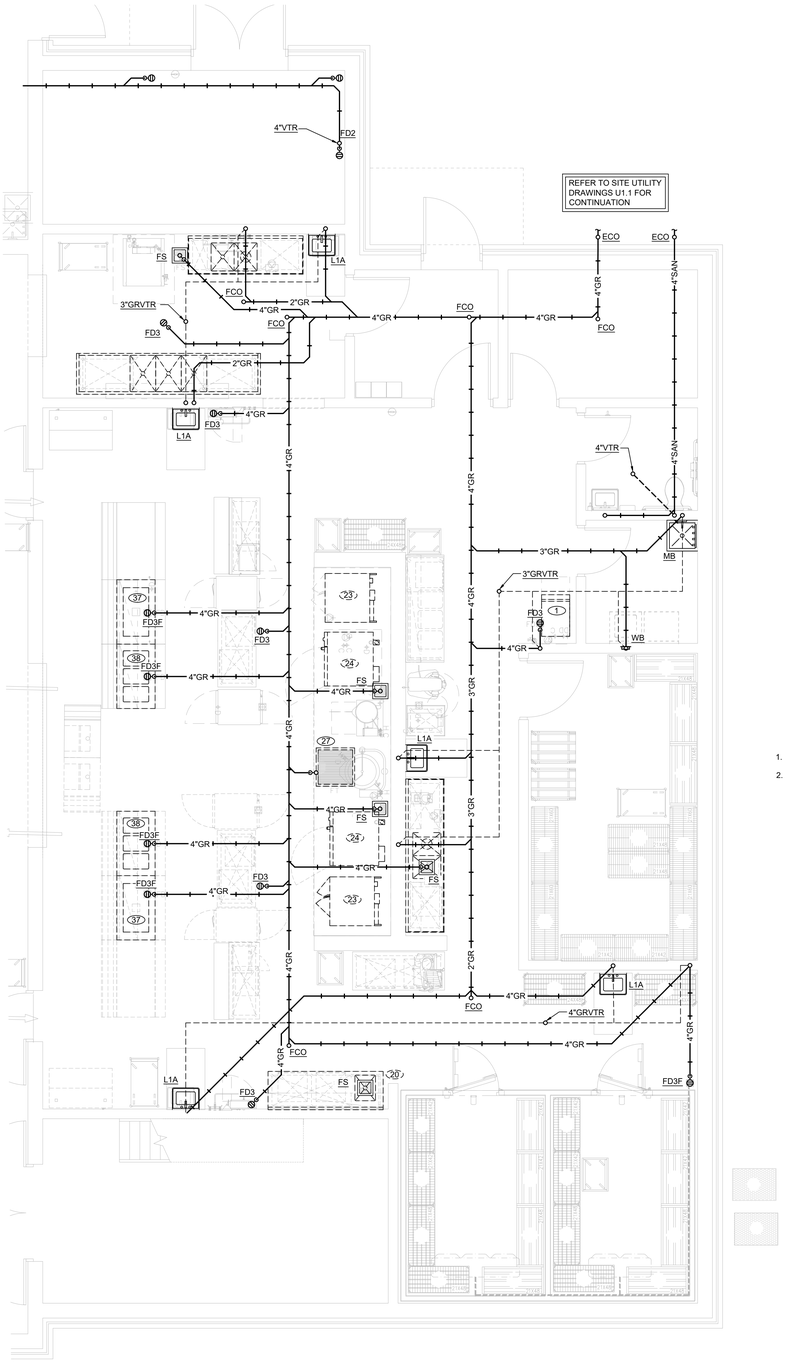


1 ENLARGED KITCHEN PLAN - SANITARY SEWER

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

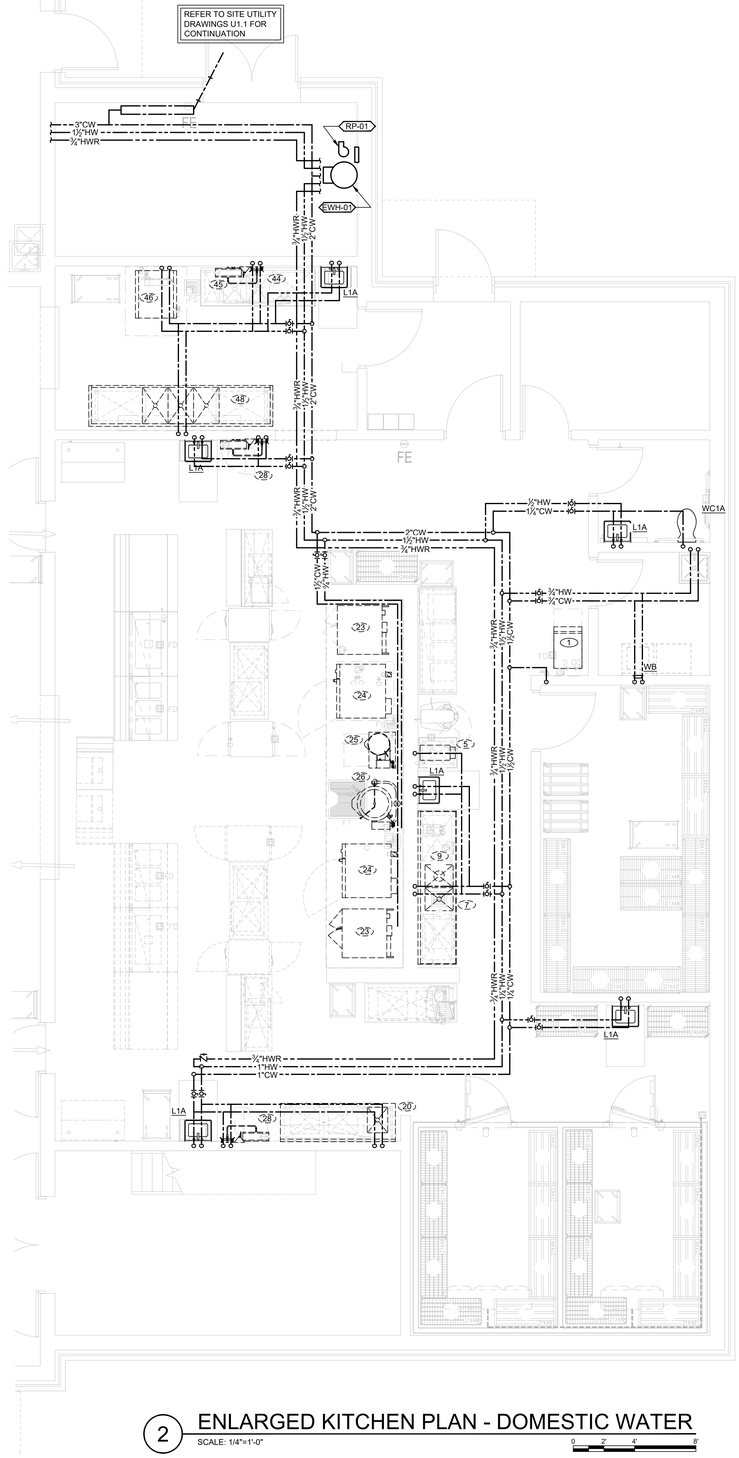
0 2' 4' 8'

KITCHEN EQUIPMENT SCHEDULE

(SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER UNLESS OTHERWISE NOTED)

MARK	FIXTURE	CW	HW	WASTE	NOTES
1	ICE MACHINE	1/2"	---	FD3	
5	HOT WATER DISPENSER	---	1/2"	---	
7	PREP SINK	1/2"	1/2"	2" TO FS	
9	DISPOSER	1/2"	---	2"	
20	WORK TABLE W/ SINK	1/2"	1/2"	2" TO FS	CUT DISCHARGE PIPING AT 45° ANGLE AND ROUTE INTO FS FLOOR SINK
23	*FUTURE DOUBLE COMBI OVEN*	---	3/4"	2" TO FS	
25	KETTLE 12 GALLON	1/2"	1/2"	---	
26	KETTLE 12 GALLON	1/2"	1/2"	---	
27	FLOOR TROUGH	---	---	4"	
28	HOSE REEL	1/2"	1/2"	---	
43	TWO COMPARTMENT WASH SINK	1/2"	1/2"	2"	
44	DISPOSER	1/2"	---	2"	
45	HOSE REEL	1/2"	1/2"	---	
46	POTS, PANS, & UTENSIL WASHER	1/2"	1/2"	2" TO FS	
48	THREE COMPARTMENT SINK	1/2"	1/2"	2"	

1. REFER TO ARCHITECTURAL KITCHEN DRAWING FOR MORE INFORMATION.
2. PLUMBING CONTRACTOR TO PROVIDE ALL CONNECTIONS NECESSARY FOR KITCHEN EQUIPMENT INSTALLATION.



2 ENLARGED KITCHEN PLAN - DOMESTIC WATER

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

0 2' 4' 8'

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ENLARGED KITCHEN PLANS - PLUMBING

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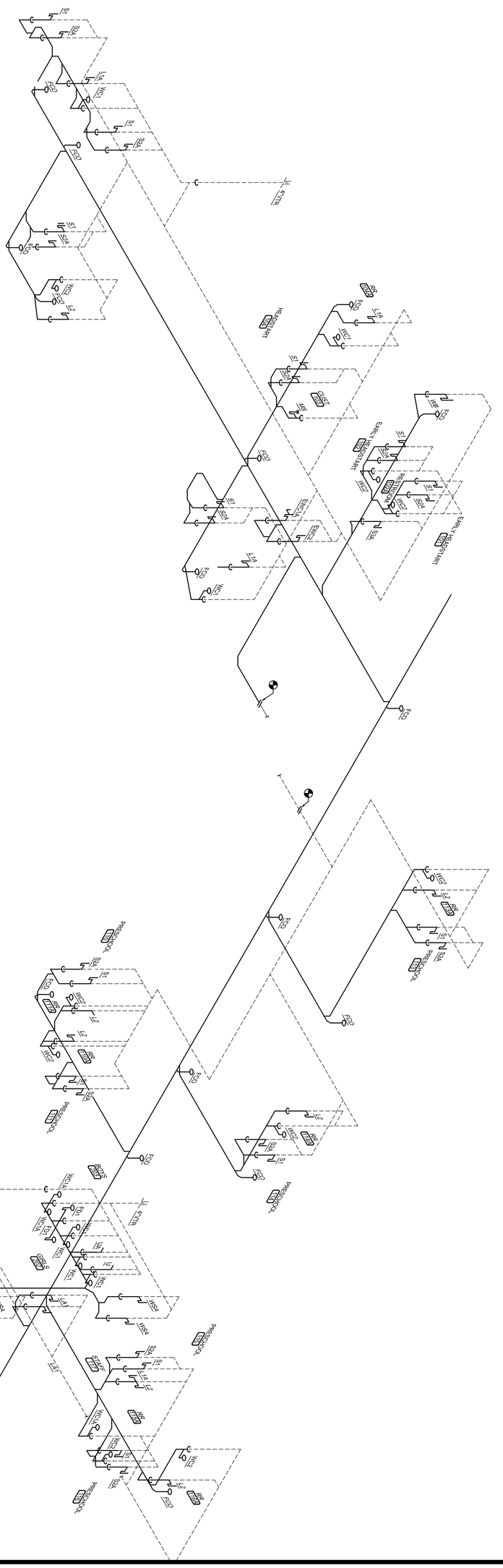
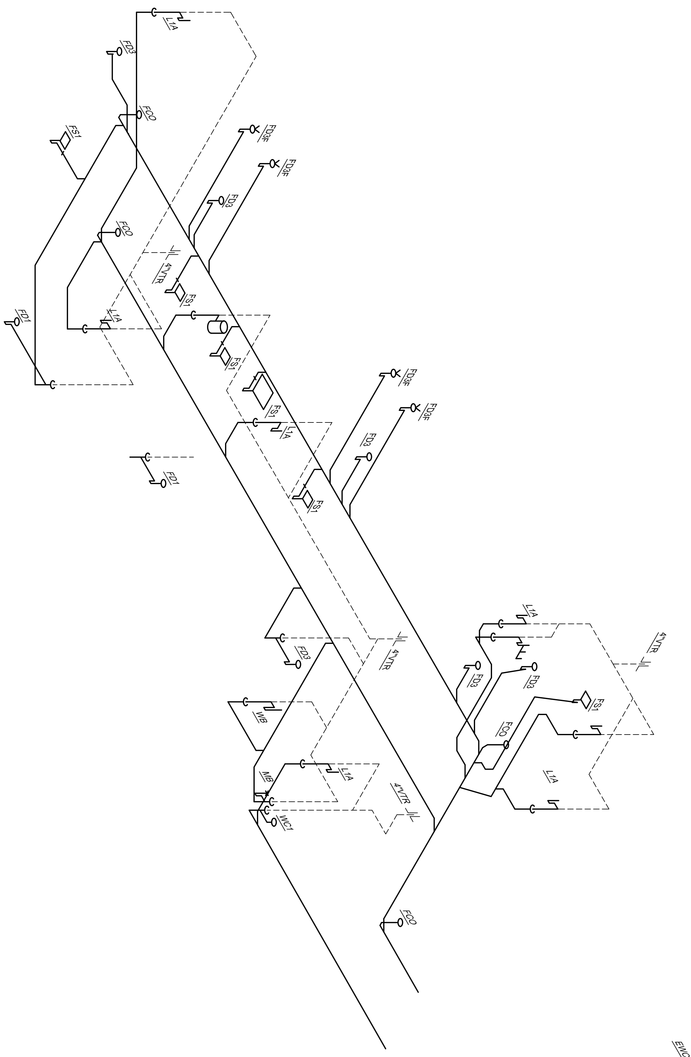


1 SANITARY RISER
NOT TO SCALE



2 SANITARY KITCHEN RISER
NOT TO SCALE

SANITARY SEWER RISERS

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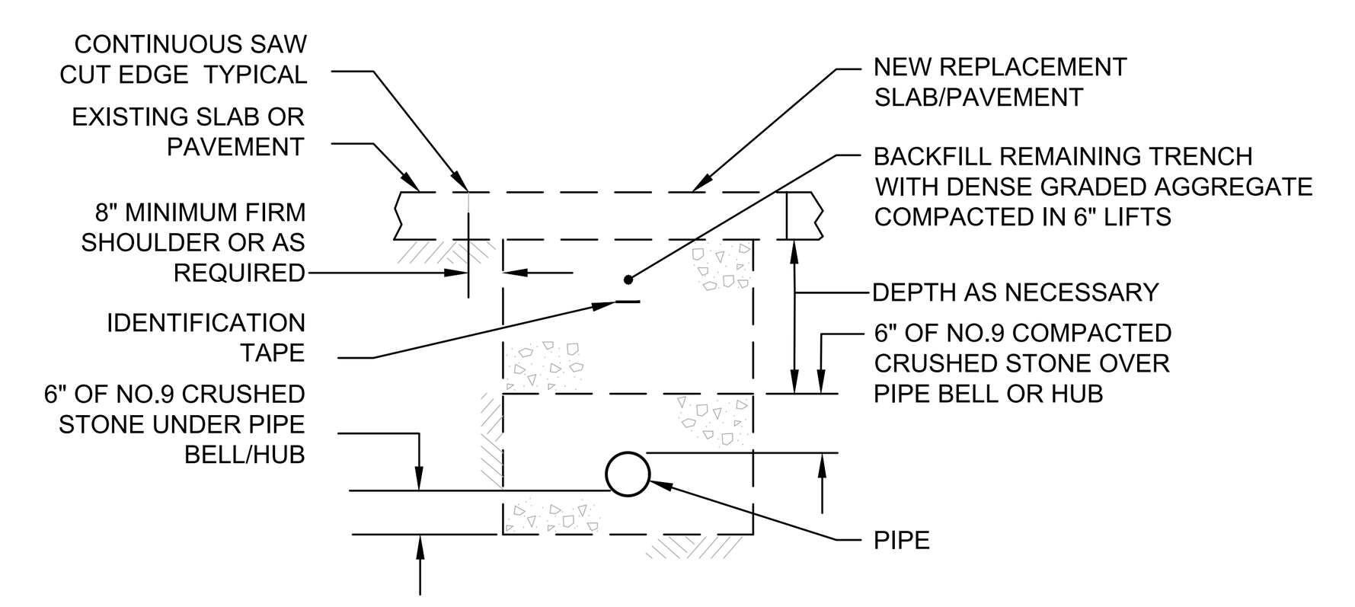
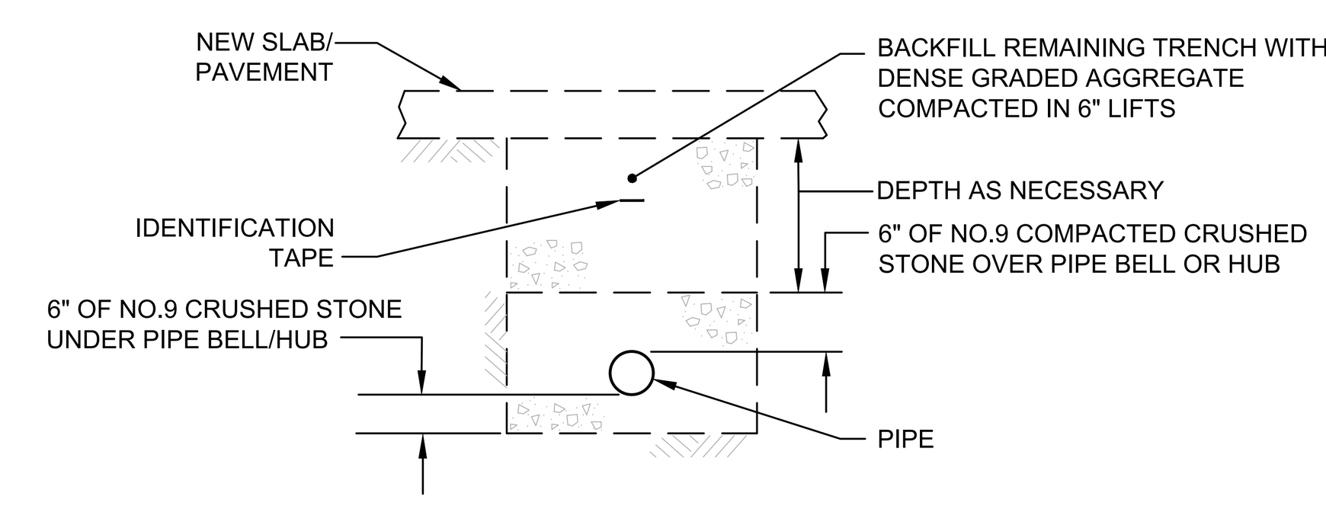


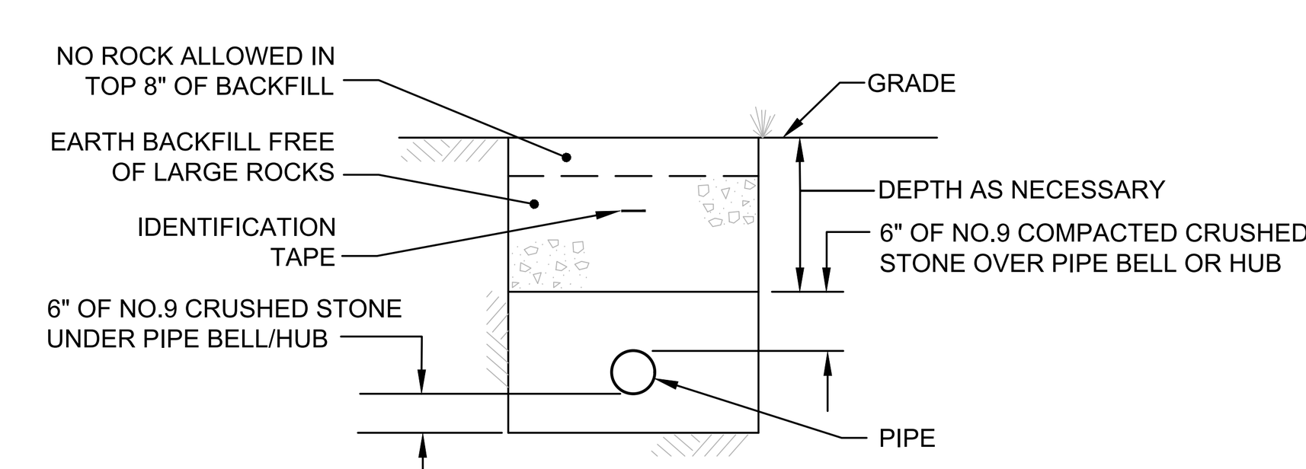
TRENCH DETAIL FOR EXISTING SLAB/PAVMENT

NOT TO SCALE



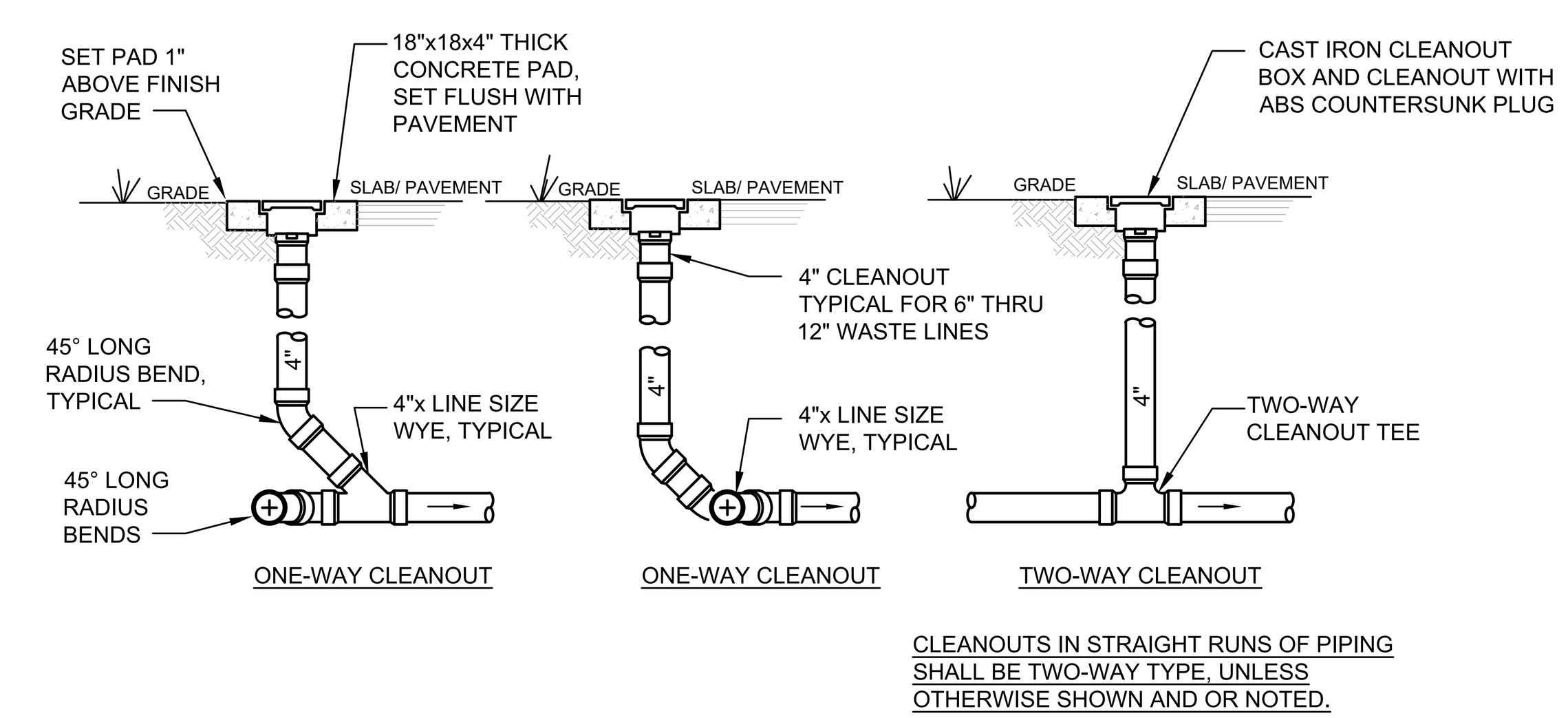
TRENCH DETAIL FOR NEW SLAB/PAVMENT

NOT TO SCALE



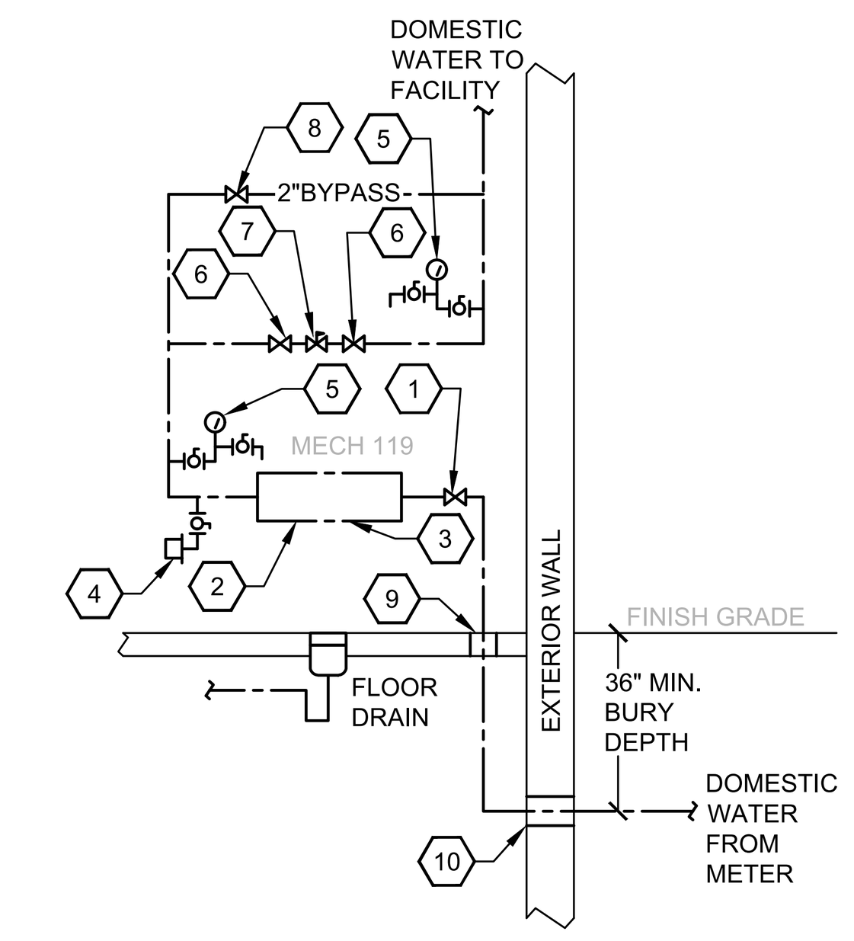
TRENCH DETAIL FOR EARTH COVER

NOT TO SCALE



SANITARY SEWER CLEANOUT DEATILS

NOT TO SCALE



DETAIL NOTES

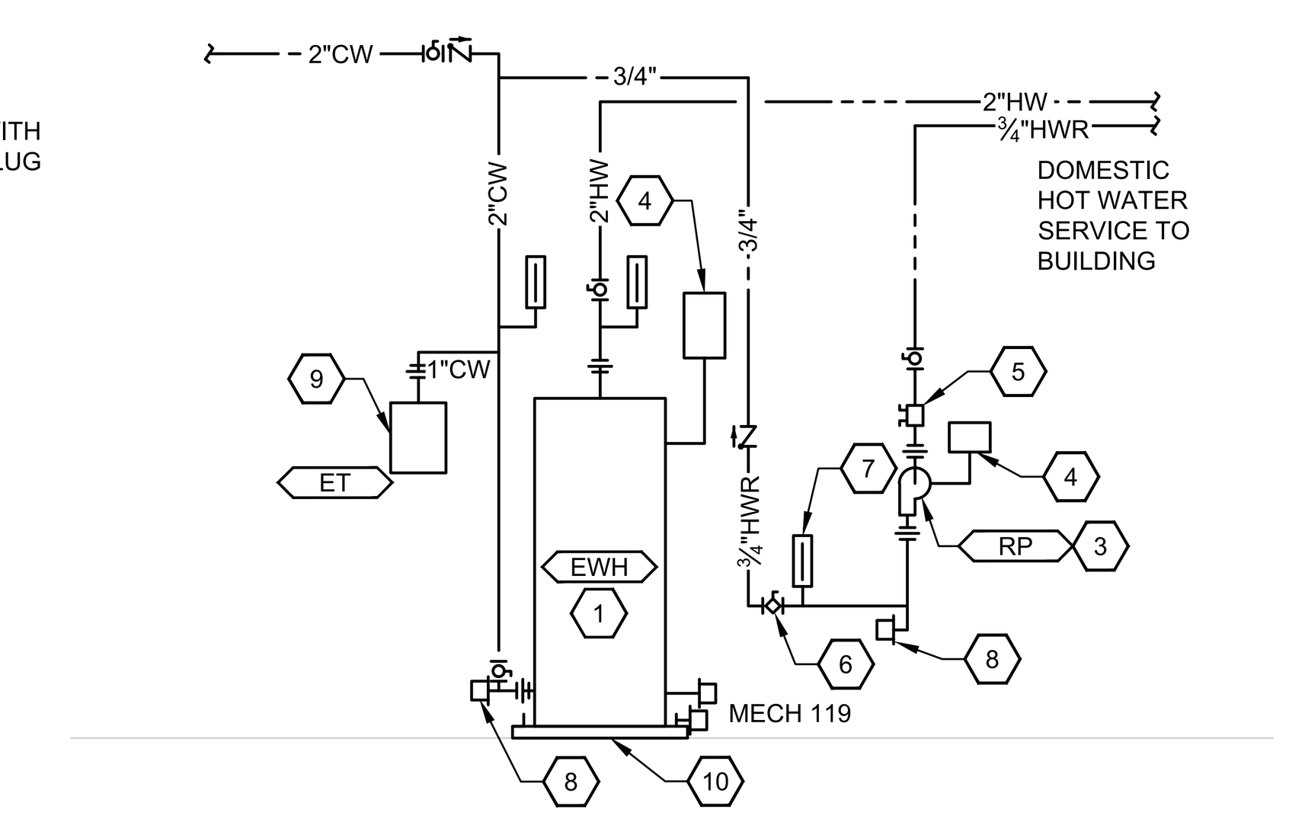
1. MAIN DOMESTIC WATER SERVICE VALVE. EPOXY COATED NON-RISING STEM RESILIENT WEDGE GATE VALVE, SIZE OF WATER SERVICE.
2. DOUBLE CHECK VALVE BACK FLOW PREVENTER, WITH OPTIONAL WYE STRAINER, AND OPTIONAL OS&Y GATE VALVES. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
3. LOCATE ABOVE FLOOR DRAIN.
4. ¾" HB HOSE BIBB AND SHUT-OFF VALVE FOR SYSTEM DRAIN DOWN.
5. PRESSURE GAUGE WITH GAUGE PROTECTER, SHUTOFF, AND BLEED VALVE.
6. SERVICE SIZE OS&Y GATE VALE FOR PRV ISOLATION.
7. PRV PRESSURE REDUCING VALVE WITH LOW FLOW BY-PASS AND EPOXY COATING. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
8. NORMALLY CLOSED 2" OS&Y GATE VALVE FOR EMERGENCY BYPASS.
9. SLEEVE WATER SERVICE THROUGH FLOOR SLAB.
10. SLEEVE WATER SERVICE IN FOUNDATION WALL IF NECESSARY. COORDINATE LOCATION AND DEPTH WITH STRUCTURAL CONTRACTOR.

DOMESTIC WATER SERVICE ENTRANCE DETAIL (OVER 2" DBL. CK.)(PRV)

NOT TO SCALE

GENERAL WATER HEATER NOTES

- PROVIDE UNI-STRUT TYPE VERTICAL SUPPORTS FOR RECIRCULATION PUMP.
- INSTALL DIELECTRIC PIPE NIPPLES WITH UNIONS AT ALL WATER CONNECTIONS TO HEATERS.
- LABEL ALL PIPING AND EQUIPMENT PER SPECIFICATIONS.



DETAIL NOTES

1. ELECTRIC WATER HEATER. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SET TEMPERATURE TO 110°F. REFER TO FLOOR PLAN FOR LOCATION. INSTALL WITH 3" DRAIN PAN.
2.
3. RECIRCULATION PUMP. INSTALL WITH OPTIONAL AQUASTAT AND TIMER. PROGRAM PUMP PER OWNER'S SCHEDULE. CONNECT TO BUILDING AUTOMATION SYSTEM.
4. POWER AND DISCONNECT BY ELECTRICAL CONTRACTOR.
5. GLASS SIGHT FLOW INDICATOR.
6. BALANCING VALVE.
7. THERMOMETER, TYPICAL
8. ¾" HB HOSE SYSTEM DRAIN.
9. EXPANSION TANK. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
10. 4" FORMED CONCRETE EQUIPMENT PLATFORMS.
11.

ELECTRIC WATER HEATER PIPING DETAIL

NOT TO SCALE

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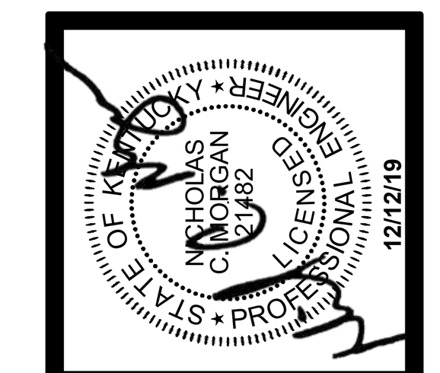

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PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL / TYPE	TRIM	CW	HW	TRAP	WASTE	VENT	MOUNTING	REMARKS	OTHER ACCEPTABLE MANUFACTURERS
WC1	AMERICAN STANDARD	2234.001 WATER CLOSET	FLUSH VALVE: AMERICAN STANDARD 6065.161.002 SEAT: AMERICAN STANDARD 5901.100	1"	---	INTEGRAL	4"	2"	FLOOR SET: RIM 15"	ELONGATED BOWL, TOP SPUD, 1.6G DC SENSOR FLUSH VALVE, HEAVY DUTY OPEN FRONT SEAT LESS COVER.	ZURN, SLOAN, KOHLER, CRANE
WC1A	AMERICAN STANDARD	3043.001 WATER CLOSET	FLUSH VALVE: AMERICAN STANDARD 6065.161.002 SEAT: AMERICAN STANDARD 5901.100	1"	---	INTEGRAL	4"	2"	FLOOR SET: RIM 16-1/2"	ADA COMPLIANT, ELONGATED BOWL, TOP SPUD, 1.6G DC SENSOR FLUSH VALVE, HEAVY DUTY OPEN FRONT SEAT LESS COVER.	ZURN, SLOAN, KOHLER, CRANE
WC2	ZURN	5670.001.09.00.00 WATER CLOSET BUNDLE	FLUSH VALVE: ZURN 600AV-WS1 SEAT: ZURN 5959SS-JUZ	1"	---	INTEGRAL	4"	2"	FLOOR SET: RIM 12"	CHILDS HEIGHT, ELONGATED BOWL, TOP SPUD, 1.6G MANUAL FLUSH VALVE, WHITE OPEN FRONT CHILDS TOILET SEAT	ZURN, SLOAN, KOHLER, CRANE
U / UA	AMERICAN STANDARD	6590.001 URNIAL	FLUSH VALVE: AMERICAN STANDARD 6063.101.002	3/4"	---	INTEGRAL	2"	2"	WALL HUNG: U1 - LIP 24" U1A - LIP 17"	TOP SPUD, 1.0G DC SENSOR FLUSH VALVE, WITH CARRIER	ZURN, SLOAN, KOHLER, CRANE
L1A	AMERICAN STANDARD	0355.012 ADA LAVATORY	FAUCET: AMERICAN STANDARD 7385.003 TRIM: CHROME PLATED GRID DRAIN, LOOSE KEY OPERATED SUPPLY STOPS, ADA COMPLIANT INSULATION WRAP.	1/2"	1/2"	1-1/4"	2"	2"	WALL HUNG: RIM 34"	20-1/2 " X 18-1/4", VITREOUS CHINA, 4" CENTERS, BACK AND SIDE SPLASH, HEAVY DUTY CONCEALED ARM CARRIERS, SINGLE HANDLE FAUCET	ZURN, SLOAN, KOHLER, CRANE, MOEN, DELTA, T&S
L2	AMERICAN STANDARD	0355.012 LAVATORY	FAUCET: AMERICAN STANDARD 7385.003 TRIM: CHROME PLATED GRID DRAIN, LOOSE KEY OPERATED SUPPLY STOPS, ADA COMPLIANT INSULATION WRAP.	1/2"	1/2"	1-1/4"	2"	2"	WALL HUNG: RIM 24"	20-1/2 " X 18-1/4", VITREOUS CHINA, 4" CENTERS, BACK AND SIDE SPLASH, HEAVY DUTY CONCEALED ARM CARRIERS, TWO BUTTON METERING FAUCET.	ZURN, SLOAN, KOHLER, CRANE, MOEN, DELTA, T&S
S1	ELKAY	DRKAD2517-5 ADA CLASSROOM SINK	FAUCET: LK1000 SINGLE HANDLE FAUCET TRIM: LK35 GRID STRAINER, LK1141A BUBBLER, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/4"	2"	2"	COUNTER SET	16" X 13-1/2" X 5" INSIDE BOWL, #18 GAUGE 304 STAINLESS STEEL, OFF-CENTER REAR DRAIN, 4 HOLE PUNCH.	JUST, AMERICAN STANDARD, KOHLER, MOEN, DELTA,T&S
S2A	ELKAY	LRAD1918-5 ADA SINGLE COMPARTMENT SINK	FAUCET: AMERICAN STANDARD 4205.000 TRIM: CHROME PLATED GRID STRAINER, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/4"	2"	2"	COUNTER SET	16" X 11-1/2" X 5" INSIDE BOWL, #18 GAUGE 304 STAINLESS STEEL, OFF-CENTER REAR DRAIN, 3 HOLE PUNCH, SINGLE HANDLE FAUCET	JUST, AMERICAN STANDARD, KOHLER, MOEN, DELTA T&S
S3A	ELKAY	LRAD1918-5 ADA SINGLE COMPARTMENT SINK	FAUCET: AMERICAN STANDARD 4205.001 TRIM: CHROME PLATED GRID STRAINER, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/4"	2"	2"	COUNTER SET	16" X 11-1/2" X 5" INSIDE BOWL, #18 GAUGE 304 STAINLESS STEEL, OFF-CENTER REAR DRAIN, 4 HOLE PUNCH, SINGLE HANDLE FAUCET W/ HAND SPRAY	JUST, AMERICAN STANDARD, KOHLER, MOEN, DELTA,T&S
MB	FIAT	TSB100 TERRAZZO MOP SINK	FAUCET: 830AA WITH VACUUM BREAKER TRIM: 832AA HOSE AND HANGER, MSG WALL GUARDS	3/4"	3/4"	3"	3"	2"	FLOOR SET	24" X 24" X 12", STAINLESS STEEL CAPS ON ALL SIDES, ACCESSIBLE CHECK VALVES ON SUPPPLIES	STERN WILLIAMS, MUSTEE
WSA	BRADLEY	MG-2 / IR 2 STATION TERREON SOLID SURFACE WASH STATION	TRIM: S-CHROME P-TRAP, TMA NAVIGATOR THERMOSTATIC MIXING ASSEMBLY, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/4"	2"	2"	RIM 34"	DESIGNER COLOR BY ARCHITECT, INFRARED SENSOR, WITH SOLENOID VALVE AND LOW VOLTAGE TRANSFORMER	ACORN, WILLOUGHBY, SLOAN
EWC1A	ACORN	172108F-UBL-BF1 ADA HI-LO WATER COOLER & BOTTLE FILLER	TRIM: CSC3 CONCEALED ARM SUPPORT, SK5 SKIRT KIT, CHROME P-TRAP	1/2"	---	1-1/4"	2"	2"	WALL HUNG: SPOUT 34" / 40"	PUSH BUTTON BOTTLE FILLER, 8 GPH OF CHILLED WATER, GRANITE FINISH, FLEXIBLE BUBBLER.	ELKAY, OASIS, HALSEY TAYLOR, MURDOCK
EWC2	ACORN	171108F-UBL ADA WATER COOLER	TRIM: CSC3 CONCEALED ARM SUPPORT, SK5 SKIRT KIT, CHROME P-TRAP	1/2"	---	1-1/4"	2"	2"	WALL HUNG: SPOUT - EWC2 - 24"	8 GPH OF CHILLED WATER, GRANITE FINISH, FLEXIBLE BUBBLER.	ELKAY, OASIS, HALSEY TAYLOR, MURDOCK
HB	MURDOCK	8121-LF BENT NOSE HOSE BIBB	WITH VACUUM BREAKER & REMOVABLE LOOSE KEY HANDLE	3/4"	---	---	---	---	18" AFF	WITH FLANGE	WOODFORD, ZURN , MIFAB
WH	MURDOCK	M-3509QT NON FREEZE BOX WALL HYDRANT	VARIATIONS: -CL CYLINDER LOCK, -W WATER COVER	3/4"	---	---	---	---	18" AFG	WITH INTEGRAL VACUUM BREAKER, QUARTER TURN FULL FLOW VALVE, COORDINATE DEPTH WITH INTERIOR WALL.	WOODFORD, ZURN , MIFAB
WB	SIOUX CHIEF	696-2333XF WASHING MACHINE OUTLET BOX	TRIM: VALVES WITH SLOTTED SHUT-OFF WITH ARRESTORS	1/2"	1/2"	1-1/4"	2"	2"	48" AFF	FIRE RATED, WITH FRAME, SUPPLY CONNECTION TYPE BY CONTRACTOR	ZURN, GUY GRAY, OATEY, JAY R SMITH
IMB	SIOUX CHIEF	696RG1010XF ICE MAKER OUTLET BOX	TRIM: NO LEAD VALVES, WITH ARRESTORS	1/2"	---	---	---	---	48" AFF	FIRE RATED, WITH FRAME, SUPPLY CONNECTION TYPE BY CONTRACTOR	ZURN, GUY GRAY, OATEY, JAY R SMITH
PT	ZURN	Z1180 SOLIDS INTERCEPTOR	TRIM: -RS REPLACEMENT SCREEN	---	---	2"	---	---	IN OR UNDER CASEWORK	TOP ACCESS, INSTALL SO THAT BUCKET ASSEMBLY CAN BE REMOVED.	SIOUX CHIEF, PPP, MIFAB, JAY R SMITH, JOSAM
HA	ZURN	1250 XL HAMMER ARRESTORS	---	1/2", 3/4", 1"	---	---	---	---	ON SUPPLY LINES TO FIXTURES	SIZE AND INSTALL PER MANUFACTURERS INSTRUCTIONS	SIOUX CHIEF, PPP, MIFAB, JAY R SMITH, JOSAM
TP	PRECISION PLUMBING PRODUCTS	PRO1-500, PRO1-ULP500. PR500	*MODEL VARIES WITH INSTALLTION LOCATION AND CONDITION. INSTALLTION SHALL BE TO THE MANUFACTURERS INSTALLATION INSTRUCTIONS..*	1/2"	---	---	1/2"	---	ON COLD WATER SUPPLY	NUMBER OF OUTLETS AS TO NUMBER OF DRAINS BEING SERVED. ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE TRAPS PRIMED.	WATTS, SIOUX CHIEF, MIFAB
CRD1	FROET	100C4-LP COMBINATION ROOF DRAIN	15" CAST IRON DOME, OTHER OPTIONS AS NECESSARY FOR INSTALLATION.	---	---	---	(2) '4"	---	FLUSH IN ROOF	INSULATE ROOF DRAIN BODY.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
DSN1	JOSAM	25014 DOWN SPOUT NOZZEL	POLISHED BRONZE BODY, REMOVABLE STAINLESS STEEL SCREEN	---	---	---	4"	---	VARIES	ARCHITECT TO APPROVE ALL LOCATIONS AND ELEVATIONS	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
FD1	JOSAM	30004-A FLOOR DRAIN	7" SATIN FINISH BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
FD2	JOSAM	32104 FLOOR DRAIN	9" DUCTILE IRON STRAINER, 1/2" PRIMER CONNECTION, SEDIMENT BUCKET	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
FD2F	JOSAM	32104 FLOOR DRAIN	9" DUCTILE IRON STRAINER, 1/2" PRIMER CONNECTION, SEDIMENT BUCKET, 4" FUNNEL ASSEMBLY	1/2"	---	---	4"	---	FLUSH IN FLOOR	INSTALL FUNNEL ON FLOOR DRAIN GRATE. COORDINATE ALL CONDENSATE AND T&P RELIEF DISCHARGE PIPING WITH FUNNEL	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
FD3	JOSAM	30004-E FLOOR DRAIN	9" SATIN BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
FD3F	JOSAM	30004-E2 FLOOR DRAIN	7" SATIN BRONZE STRAINER W/ FUNNEL ASSEMBLY, 1/2" TRAP PRIMER CONNECTION	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
4"O.R.	JOSAM	88210 DEEP SEAL TRAP	1/2" THREADED CONNECTION, INTERNAL BUCKET, CLEANOUT WITH BRONZE PLUG	1/2"	---	---	3"	1-1/2"	VARIES	INSTALL IN ACCESSIBLE LOCATION WITH AP ACCESS PANELS. ROUTE CONDENSATE AND DISCHARGE PIPING TO SPILL INTO OPENING.	---
AP	JR SMITH	4760 ACCESS PANEL	12"X12" VANDAL RESISTANT ACCESS PANEL.	---	---	---	---	---	VARIES	ARCHITECT TO APPROVE ALL LOCATIONS AND ELEVATIONS	WATTS, JAY R SMITH, MIFAB, WADE, ZURN
FCO, ECO	JOSAM	55000 CLEANOUT	SATIN BRONZE	---	---	---	4"	---	FLUSH IN FLOOR		WATTS, JAY R SMITH, MIFAB, WADE, ZURN

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TANK CAPACITY (GAL)	RECOVERY AT 100◦F RISE	EXPANSION TANK #	ELECTRICAL KW	ELECTRICAL V / Ø	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
EWH-01	A.O.SMITH	DVE-120-54	MECH 119	119	111 GPH	ET-01	54	208/3	---	---	1,2

REMARKS:
1. INSTALL ON 4" POURED CONCRETE PAD.
2. INSTALL METAL DRIP PAN UNDER WATER HEATES.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: STATE, AMERICAN

PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	FLOW (GPM)	HEAD (FT)	CONNECTIONS INLET	CONNECTIONS OUTLET	ELECTRICAL HP	ELECTRICAL V / Ø / Hz	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
RP-01	TACO	SPE-1	MECH 119	11	13	3/4"	3/4"	0.5	120/1/60	12.2	20	1,2,3

REMARKS:
1. PROGRAMABLE PUMP
2. INSTALL PER MANUFACTURERS INSTRUCTIONS.
3
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: BELL & GOSSETT, WILO. REFER TO SPECIFICIATIONS FOR ADDITIONAL REQUIREMENTS.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	REMARKS
ET-1	ZURN	WTTA-5	MECH 119	3.5	2.3	1,2

REMARKS:
1. ASME RATED
2. 100 PSIG PRESSURE RATING
3
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: WESSELS, WATTS.
REFER TO SPECIFICIATIONS FOR ADDITIONAL REQUIREMENTS.

SHERMAN CARTER BARNHART ARCHITECTS

SHROUT TATE WILSON MECHANICAL AND ELECTRICAL ENGINEERS
Lexington - Louisville
www.stweng.com

SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

PLUMBING SCHEDULES

JOB NO.	1759
DATE	12/16/19
DRAWN	MM
CHECKED	NM

REVISIONS

No.	Description	Date

SHEET

P6.1

GENERAL NOTES:

1. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL MECHANICAL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.
3. ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER (CM) OR GENERAL CONTRACTOR (GC), OTHER TRADES, THE OWNER, AND RELATED UTILITY COMPANIES. ALL WORK SHALL COINCIDE WITH THE CONSTRUCTION PHASING PER THE CONTRACT DOCUMENTS OR CONSTRUCTION DOCUMENTS AND/OR AS MODIFIED BY THE CM/GC AND APPROVED BY THE OWNER AND DESIGN TEAM. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND DEVELOP A PHASING PLAN WHERE ONE IS NOT EXPLICITLY SHOWN AND SHALL ENSURE THAT SAID PHASING PLAN IS APPROVED PRIOR TO PROCEEDING WITH WORK. ANY AND ALL DEMOLITION SHALL NOT PERMIT INTERRUPTION OF SERVICE IN AN OCCUPIED BUILDING UNLESS COORDINATED AND APPROVED.
4. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF DUCTWORK, PIPING, EQUIPMENT, AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. CONTRACTOR TO PROVIDE ANY ADDITIONAL DUCT OR PIPING OFFSETS AND/OR FITTINGS, INCLUDING DIVIDED DUCTS AND FLATTENED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
5. THE MECHANICAL CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BID AND SHALL COORDINATE ROUTING AND INSTALLATION OF MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, AND ELECTRICAL.
6. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE KENTUCKY BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.
7. THE EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH ALL OTHER TRADES. CEILING MOUNTED LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
8. THE MECHANICAL DRAWINGS REFLECT A "BASIS OF DESIGN" HVAC SYSTEM THAT HAS BEEN DESIGNED AROUND SPECIFIC PRODUCTS/MANUFACTURER'S (SEE SCHEDULES). THE SELECTION OF A "BASIS OF DESIGN" HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). THE CONTRACTOR MAY USE "NON-BASIS OF DESIGN" PRODUCTS/MANUFACTURER'S AS PERMITTED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. IF "NON-BASIS OF DESIGN" MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED, OR INSTALLED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL OF HIS OR HER SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID. SUBSEQUENTLY, ANY ADDITIONAL COST BORE BY THE ENGINEER (MECHANICAL, ELECTRICAL, ETC) TO ACCOMMODATE "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE BORE BY THE CONTRACTOR AND PAID TO THE ENGINEER OF RECORD DURING SUBMITTALS.
9. EQUIPMENT OR MATERIALS AS ALLOWED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS, WHICH ARE INSTALLED AND SUBSEQUENTLY VIEWED UNSATISFACTORY BY THE OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL VISIT THE JOB SITE, FIELD VERIFY FIT, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, INSTALLING EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR LACK THEREOF.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR ALL PERMITS, TESTING, AND INSPECTIONS.
12. CONTRACTOR TO REMOVE UNUSED/ABANDONED HVAC SYSTEMS AND EQUIPMENT UNLESS INDICATED OTHERWISE ON THE CONTRACT DOCUMENTS.
13. COORDINATE WITH THE CONTRACT DOCUMENTS AND PROVIDE TEMPORARY HEAT AS REQUIRED.
14. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS BUT NOT SHOWN ON PLANS AND VICE VERSA, SHALL BE PROVIDED AS IF REQUIRED BY BOTH.
15. THE ENTIRE MECHANICAL INSTALLATION SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATINGS AND/OR "UL" ASSEMBLY RATINGS AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL FIRE/SMOKE SEPARATIONS AND/OR "UL" RATED ASSEMBLIES. COORDINATE ALL PENETRATIONS WITH THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR. PROVIDE ADDITIONAL FIRE DAMPERS, SMOKE DETECTORS, AND SMOKE DAMPERS (INCLUSIVE OF WIRING) AS REQUIRED FOR A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.
16. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.
17. ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH THE ARCHITECT AND SHALL BE FLASHED AND SEALED WEATHER-TIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY THE ARCHITECT. NEW OPENINGS AND/OR PENETRATIONS FOR MECHANICAL ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE MECHANICAL CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO "HAMMER DRILLING" WILL BE ALLOWED.
18. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES. PROVIDE ADDITIONAL DUCTWORK, OFFSETS, ETC. TO ACCOMMODATE FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM AT NO ADDITIONAL COST. ADDITIONAL OFFSETS REQUIRE APPROVAL FROM THE ENGINEER. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE.
19. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.
20. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
21. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR INSPECTION OF ALL INSTALLED FIRE DAMPERS AS DIRECTED BY SMACNA HVAC CONSTRUCTION STANDARDS.
22. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL 181 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING AND KINKING. INSULATED FLEXIBLE DUCTS SHALL MEET MINIMUM R-VALUES REQUIRED BY THE IECC.
23. ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.
24. THE MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVES WITH COMPLETE NEBB/AABC BALANCE REPORT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AS MANY ADDITIONAL SITE VISITS BY THE LICENSED TAB CONTRACTOR AS REQUIRED BY THE ENGINEER FOR A COMPLETE AND FUNCTIONING AND APPROVED SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
25. ALL RECTANGULAR 90 DEG. AND 45 DEG. ELBOWS SHALL HAVE TURNING VANES.
26. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AT NO ADDITIONAL COST. PROVIDE A MAIN RETURN DAMPER UPSTREAM OF OUTSIDE AIR CONNECTIONS IN RETURN AIR PLENUM DESIGNS. COORDINATE ADDITIONAL MANUAL VOLUME DAMPER LOCATIONS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM WITH THE ENGINEER PRIOR TO ORDER, FABRICATION, OR INSTALLATION.
27. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR "CLEAR" DUCT DIMENSIONS.
28. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND EXHAUST, PLUMBING VENTS, ETC. AND/OR AS REQUIRED BY IMC, WHICHEVER IS MORE STRINGENT.
29. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM EDGE OF ROOFTOP EQUIPMENT TO ROOF EDGE UNLESS RAILING OR PARAPET OF SUFFICIENT HEIGHT IS TO BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO: IBC, IMC, LOCAL CODES, OSHA GUIDELINES (WHERE APPLICABLE). REFER TO ARCHITECTURAL.
30. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH NEC.
31. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS AND LOCATION OF ALL EQUIPMENT.
32. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR BENDS IN PIPING AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES AND DIFFERENCES IN THE AMBIENT TEMPERATURE WHEN PIPING AND EQUIPMENT IS INSTALLED.
33. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS OF ALL HYDRONIC PIPING. AUTOMATIC AIR VENTS SHALL BE INSTALLED WHERE INDICATED IN THE CONTRACT DOCUMENTS AND/OR AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
34. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL PLANS AND GC/CM ALL AREAS WHERE MECHANICAL / ELECTRICAL EQUIPMENT AND DEVICES ARE INDICATED TO BE DEMOLISHED AND THE REQUIRED REPAIR AND RESTORATION OF ALL WALLS, ROOFS, CEILINGS, FLOORS, ETC. SHALL BE INCLUDED IN THEIR BID.
35. ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES AND THE AMERICAN ROOFING COUNCIL. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AS NECESSARY TO MAINTAIN ALL WARRANTIES.
36. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY.
37. DO NOT BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING, DUCTWORK, OR EQUIPMENT OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 30" x 42" (W x D) CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC.

MECHANICAL LEGEND

HVAC

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER (4-WAY, 3-WAY, 2-WAY, 1-WAY)
	SUPPLY AIR DIFFUSER (ROUND)
	RETURN GRILLES
	EXHAUST GRILLES
	FLEXIBLE CONNECTION
	SUPPLY AIR DUCT (UP,- DOWN)
	RETURN AIR DUCT (UP,- DOWN)
	EXHAUST AIR DUCT (UP,- DOWN)
A.D.	ACCESS DOOR
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
	RECTANGULAR TO RECTANGULAR TRANSITION
R	DUCT CHANGE IN ELEVATION; R= RISE, D= DROP
BD	DUCT SIZE BACKDRAFT DAMPER (ARROW INDICATES FLOW DIRECTION)
FD	FIRE DAMPER
	MANUAL VOLUME CONTROL BALANCE DAMPER
SD	SMOKE DAMPER
M	MOTORIZED DAMPER
FD SD	COMBINATION - FIRE / SMOKE DAMPER
	ELBOW WITH TURNING VANES
	ELBOW ROUND
	CONNECT NEW TO EXISTING
	INDICATES AIR FLOW DIRECTION
GV	GATE VALVE (HORIZ. - VERT.)
GLV	GLOBE VALVE (HORIZ. - VERT.)
BFV	BUTTERFLY VALVE (HORIZ. - VERT.)
BV	BALL VALVE (HORIZ. - VERT.)
	CONTROL VALVE (2-WAY, 3-WAY)
	TRIPLE-DUTY VALVE
P	PRESSURE GAUGE
T	TEMPERATURE GAUGE / THERMOMETER
	PRESSURE REDUCING VALVE
	STRAINER
	CHECK VALVE
	FLOW INDICATOR
	BALANCE VALVE
	EXISTING PIPING/DUCT/EQUIPMENT TO REMAIN
	EXISTING PIPING/DUCT/EQUIPMENT TO BE REMOVED
	CAP OR PLUG
	PIPE DOWN, PIPE UP
	INCREASER / REDUCER
FS	FLOW SWITCH (FS)
FM	FLOW METER (FM)(DDC)
TS	TEMP SENSOR (TS)(DDC)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
T	ROOM THERMOSTAT OR DUCT STAT
S	SENSOR (CO, CO2, ETC.)
H	HUMIDISTAT
X-XXX / XXX	SUPPLY AIR DEVICE (S-1) / AIRFLOW (CFM)
XX-XX	EQUIPMENT IDENTIFICATION
X / MX.XX	DETAIL NO./ SHEET NO.
X / MX.XX	SECTION NO / SHEET NO.
XX	INDICATED TAG OR SHEET NOTE
XX	DEMOLITION NOTE
###	REVISION TAG
	EXTENT OF DEMOLITION
	EXPANSION JOINT

HVAC

SYMBOL	DESCRIPTION
	PIPE ANCHOR
	COMBINATION FLOW INDICATOR / BALANCING (4"-SMALLER)
36"	COMBINATION FLOW INDICATOR / BALANCING (5"-LARGER)
	TEMP./ PRESS. RELIEF VALVE
	FLANGED CONNECTION
	UNION
	FLEXIBLE CONNECTION
	PUMP

HVAC

SYMBOL	DESCRIPTION
CD	CONDENSATE DRAIN LINE
CWR	CHILLED WATER RETURN PIPING
CWS	CHILLED WATER SUPPLY PIPING
EA	EXHAUST AIR DUCTWORK
HR	HYDRONIC RETURN PIPING
HS	HYDRONIC SUPPLY PIPING
HPR	HIGH PRESSURE RETURN
HPS	HIGH PRESSURE STEAM
HWR	HOT WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE STEAM
MPR	MEDIUM PRESSURE RETURN
MPS	MEDIUM PRESSURE STEAM
OA	OUTSIDE AIR DUCTWORK
R	REFRIGERANT LINE SET PIPING
RA	RETURN AIR DUCTWORK
SA	SUPPLY AIR DUCTWORK

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU-X	AIR HANDLING UNIT
AS-X	AIR SEPARATOR
ATV	AUTO. TEMPERING VALVE
B-X	BOILER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	COMMON
CAS-X	VARIABLE REFRIGERANT CASSETTE UNIT
CFM	CUBIC FEET PER MINUTE
CH-X	CHILLER
CT-X	COOLING TOWER
CU-X	CONDENSING UNIT
E-X	EXHAUST AIR DEVICE
EF-X	EXHAUST FAN DESIGNATION
EH-X	ELECTRIC HEATER
ERU-X	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
EXT-X	EXPANSION TANK
FCU-X	FAN COIL UNIT
FZT	FREEZSTAT
GBD	GRAVITY BACKDRAFT DAMPER
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HP-X	HEAT PUMP UNIT
HT-X	HEAT TRACE
HX-X	HEAT EXCHANGER
KW	KILOWATT
L-X	LOUVER DESIGNATION
MAU-X	MAKE-UP AIR UNIT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
P-X	PUMP
PRV	PRESSURE REDUCING VALVE
R-X	RETURN AIR DEVICE
RTU-X	ROOFTOP UNIT
S-X	SUPPLY AIR DEVICE
SF-X	SUPPLY FAN DESIGNATION
SP	TOTAL STATIC PRESSURE
T-X	TRANSFER AIR DEVICE
VAV-X	VARIABLE AIR VOLUME BOX

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

MECHANICAL LEGEND

JOB NO.	1759
DATE	12/16/19
DRAWN	BC
CHECKED	NM

REVISIONS

No.	Description	Date

SHEET

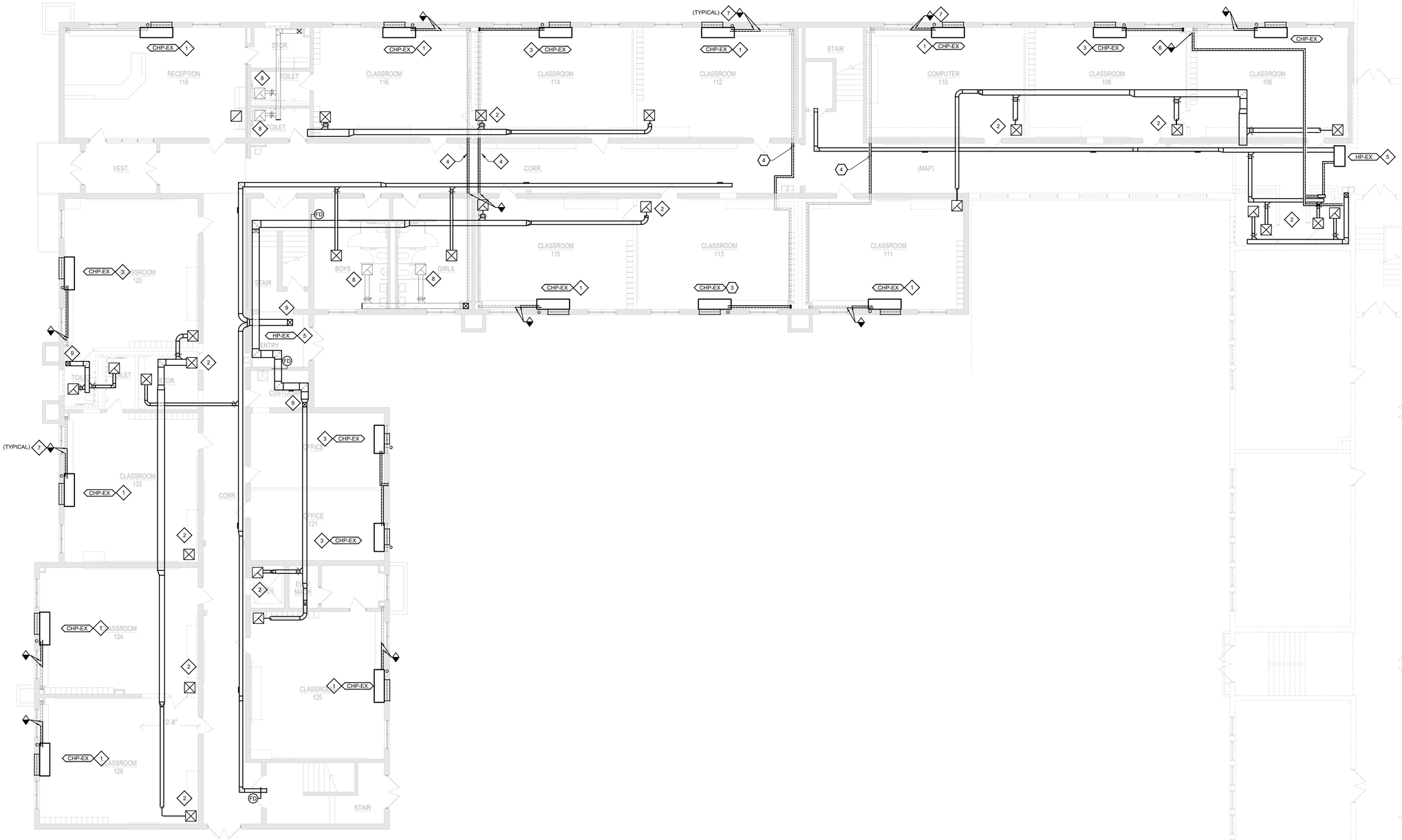
M0.1

GENERAL NOTES:

1. FIELD VERIFY ALL EXISTING DUCT/EQUIPMENT LOCATIONS.

SHEET KEYNOTES:

1. DEMO EXISTING CABINET HEAT PUMP FOR REPLACEMENT WITH NEW UNIT. SEE NEW WORK. DEMO EXISTING PIPING AS SHOWN.
2. DEMO EXISTING DIFFUSERS, GRILLES AND CONNECTING DUCTWORK. TYPICAL OF ALL.
3. DEMO EXISTING CABINET HEAT PUMP AND EXISTING PIPING. CAP AT PIPING CONNECTION TO MAIN LINE.
4. DEMO EXISTING PIPING CROSSING CORRIDOR AS NECESSARY.
5. DEMO EXISTING WATER SOURCE HEAT PUMP AND ALL ASSOCIATED DUCTWORK AND PIPING AS REQUIRED.
6. CAP EXISTING HPS/HPR LINES AT THE CHASE AT THIS LOCATION. FIELD VERIFY EXACT LOCATION.
7. DEMO EXISTING PIPE TO THIS POINT. SEE NEW WORK FOR NEW CONNECTIONS.
8. EXISTING EXHAUST GRILLES AND DUCT TO REMAIN.
9. CAP EXISTING DUCTWORK AT THE FLOOR IN THESE APPROXIMATE LOCATIONS.



1 FIRST FLOOR DEMOLITION PLAN - MECHANICAL

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

0 4' 8' 16'

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TAYLORSVILLE, KENTUCKY

FIRST FLOOR DEMOLITION PLAN - MECHANICAL

JOB NO.	1759
DATE	12/16/19
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CHECKED	

REVISIONS

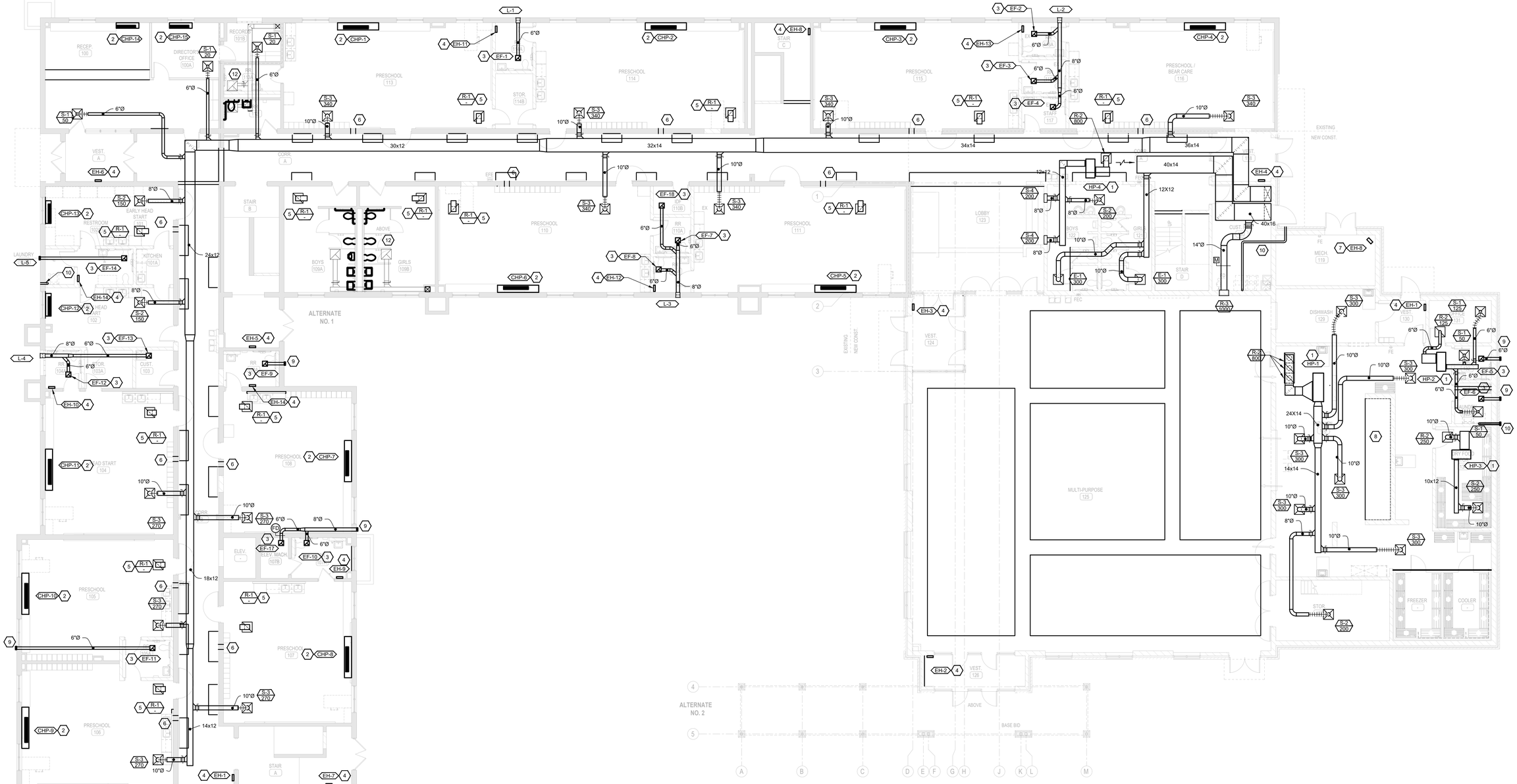
No.	Description	Date

SHEET

MD1.1

SHEET KEYNOTES:

1. PROVIDE AND INSTALL HORIZONTAL HEAT PUMP UNIT ABOVE CEILING WITH NECESSARY CLEARANCE PER MANUFACTURERS INSTRUCTIONS.
2. PROVIDE AND INSTALL NEW CABINET HEAT PUMP WHERE EXISTING HEAT PUMP WAS LOCATED. SEE SHEET M2.1 FOR RECONNECTION OF PIPING.
3. PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN PER MANUFACTURER'S INSTRUCTION S WHERE INDICATED.
4. PROVIDE AND INSTALL NEW ELECTRIC WALL HEATER PER MANUFACTURER'S INSTRUCTIONS WHERE INDICATED 18"A.F.F. TO BOTTOM OF HEATER.
5. PROVIDE AND INSTALL RETURN AIR GRILLES WITH 14X8 PLENUM ON TOP. SEE DETAIL ON SHEET M-501.
6. PROVIDE 12X6 OPENING ABOVE CEILING WITH DUCT SLEEVE WHERE INDICATED FOR TRANSFER AIR.
7. PROVIDE AND INSTALL ELECTRIC UNIT HEATER ON WALL WITH BRACKET PER MANUFACTURERS INSTRUCTIONS.
8. KITCHEN HOOD BY OTHERS. COORDINATE DUCT ROUTING WITH HOOD AND ASSOCIATED DUCTWORK.
9. ROUTE EXHAUST DUCT TO 10X6 BRICK VENT WHERE INDICATED. COORDINATE ELEVATION WITH ARCHITECT.
10. 4" DRYER VENT WITH CLEAN-OUT ROUTED TO EXTERIOR WALL CAP.
11. PROVIDE AND INSTALL LOUVER WHERE INDICATED PER MANUFACTURERS INSTRUCTIONS. COORDINATE LOCATION WITH ARCHITECT.
12. EXISTING DUCT AND GRILLES TO REMAIN.



1 FIRST FLOOR NEW WORK PLAN - HVAC

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

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TAYLORSVILLE, KENTUCKY

FIRST FLOOR NEW WORK PLAN - HVAC

JOB NO.	1759
DATE	12/16/19
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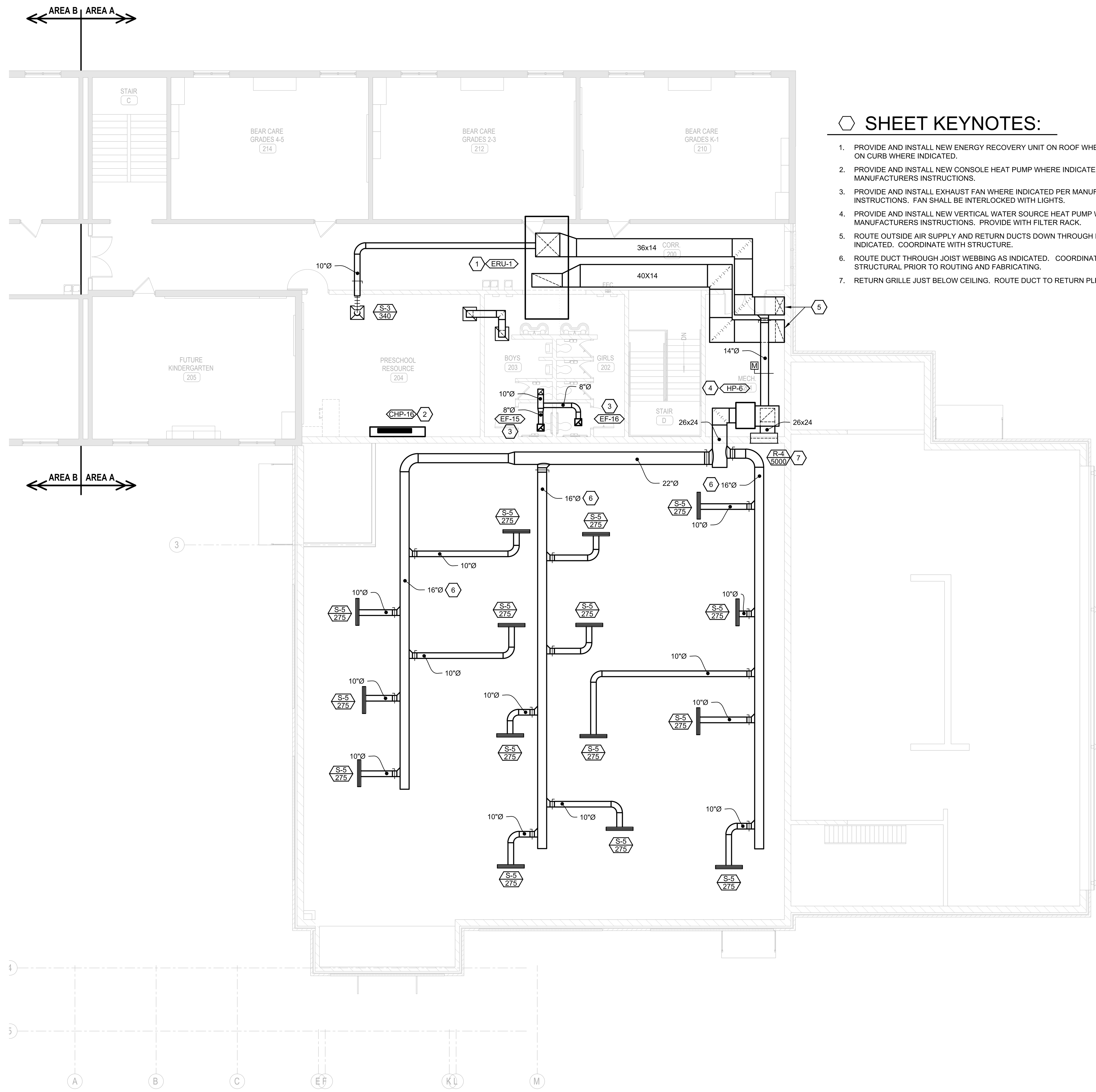
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

M1.1



1 SECOND FLOOR NEW WORK PLAN - HVAC

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

⬡ SHEET KEYNOTES:

1. PROVIDE AND INSTALL NEW ENERGY RECOVERY UNIT ON ROOF WHERE INDICATED. MOUNT ON CURB WHERE INDICATED.
2. PROVIDE AND INSTALL NEW CONSOLE HEAT PUMP WHERE INDICATED PER MANUFACTURERS INSTRUCTIONS.
3. PROVIDE AND INSTALL EXHAUST FAN WHERE INDICATED PER MANUFACTURERS INSTRUCTIONS. FAN SHALL BE INTERLOCKED WITH LIGHTS.
4. PROVIDE AND INSTALL NEW VERTICAL WATER SOURCE HEAT PUMP WHERE INDICATED PER MANUFACTURERS INSTRUCTIONS. PROVIDE WITH FILTER RACK.
5. ROUTE OUTSIDE AIR SUPPLY AND RETURN DUCTS DOWN THROUGH FLOOR WHERE INDICATED. COORDINATE WITH STRUCTURE.
6. ROUTE DUCT THROUGH JOIST WEBBING AS INDICATED. COORDINATE ROUTING WITH STRUCTURAL PRIOR TO ROUTING AND FABRICATING.
7. RETURN GRILLE JUST BELOW CEILING. ROUTE DUCT TO RETURN PLENUM AS SHOWN.

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TAYLORSVILLE, KENTUCKY

SECOND FLOOR NEW WORK PLAN - HVAC

JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

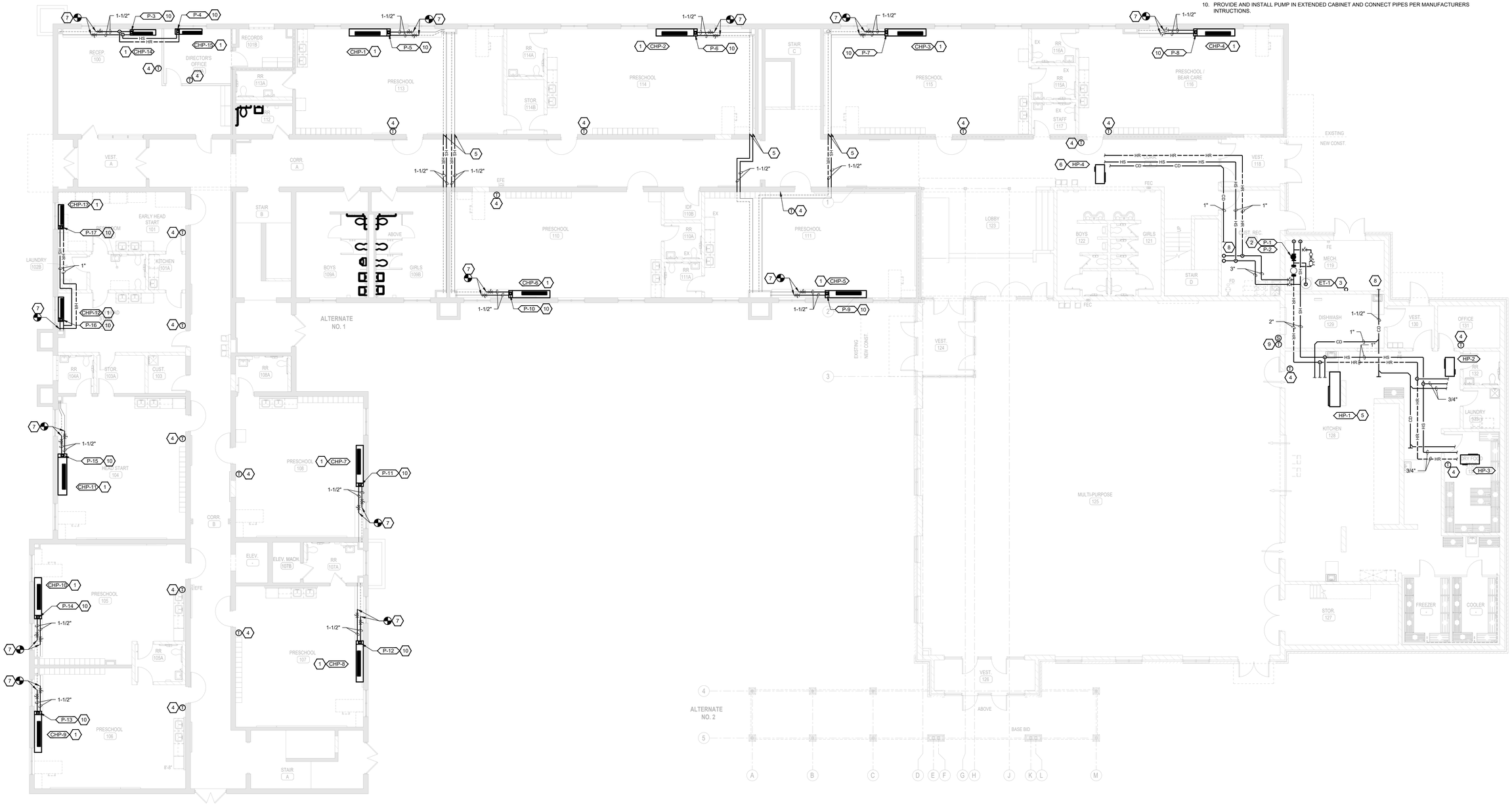
M1.2

GENERAL NOTES:

1. REPLACE ALL HYDRONIC VALVES FOR HEAT PUMPS.

SHEET KEYNOTES:

1. PROVIDE AND INSTALL CABINET HEAT PUMP WHERE INDICATED PER MANUFACTURER'S INSTRUCTIONS. RECONNECT TO EXISTING PIPING AS SHOWN AND PROVIDE NEW SHUT-OFF AND BALANCE VALVES. ROUTE CONDENSATE OUT OF WALL TO EXTERIOR. ROUTE IN SAME LOCATION OF EXISTING CONDENSATE WHERE POSSIBLE.
2. PROVIDE AND INSTALL IN-LINE PUMP SUSPENDED FROM STRUCTURE. P-2 SHALL BE MOUNTED BELOW P-1, AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE. ENSURE PROPER CLEARANCES ARE MAINTAINED FOR PUMP AND PUMP-MOUNTED VFD. REFER TO SHEET M2.2 FOR IN-LINE PUMP INSTALLATION DETAIL.
3. INSTALL EXPANSION TANK ON 4" HOUSEKEEPING PAD WHERE INDICATED PER MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE AND INSTALL UNIT THERMOSTAT MOUNTED AT 48" A.F.F. WHERE INDICTED. ROUTE CONTROL WIRING CONCEALED BACK TO UNIT SERVED. TYPICAL OF ALL THERMOSTATS.
5. ROUTE NEW PIPING ACROSS CORRIDOR CEILING AS NECESSARY TO MISS NEW OUTSIDE AIR DUCTWORK.
6. PROVIDE AND INSTALL HORIZONTAL WATER SOURCE HEAT PUMP PER MANUFACTURER'S INSTRUCTIONS. CONNECT PIPING AS INDICATED.
7. CONNECT NEW PIPING TO EXISTING AT THIS APPROXIMATE LOCATION. PROVIDE NEW BALL/BALANCE VALVES.
8. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
9. PROVIDE AND INSTALL THERMOSTAT AND CO2 SENSOR 48" A.F.F. WITH LOCKABLE COVER WHERE INDICATED AND ROUTE TO CORRESPONDING HEAT PUMP UNIT. CO2 SENSOR TO BE INTERLOCKED WITH MOTORIZED DAMPER IN OUTSIDE AIR DUCT TO HEAT PUMP AND OPEN WHEN CO2 RISES ABOVE 1200 PPM AND CLOSE WHEN SATISFIED.
10. PROVIDE AND INSTALL PUMP IN EXTENDED CABINET AND CONNECT PIPES PER MANUFACTURERS INTRUCTIONS.



1 FIRST FLOOR NEW WORK PLAN - MECHANICAL PIPING

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

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TAYLORSVILLE, KENTUCKY

FIRST FLOOR NEW WORK PLAN - MECHANICAL PIPING

JOB NO.	1759
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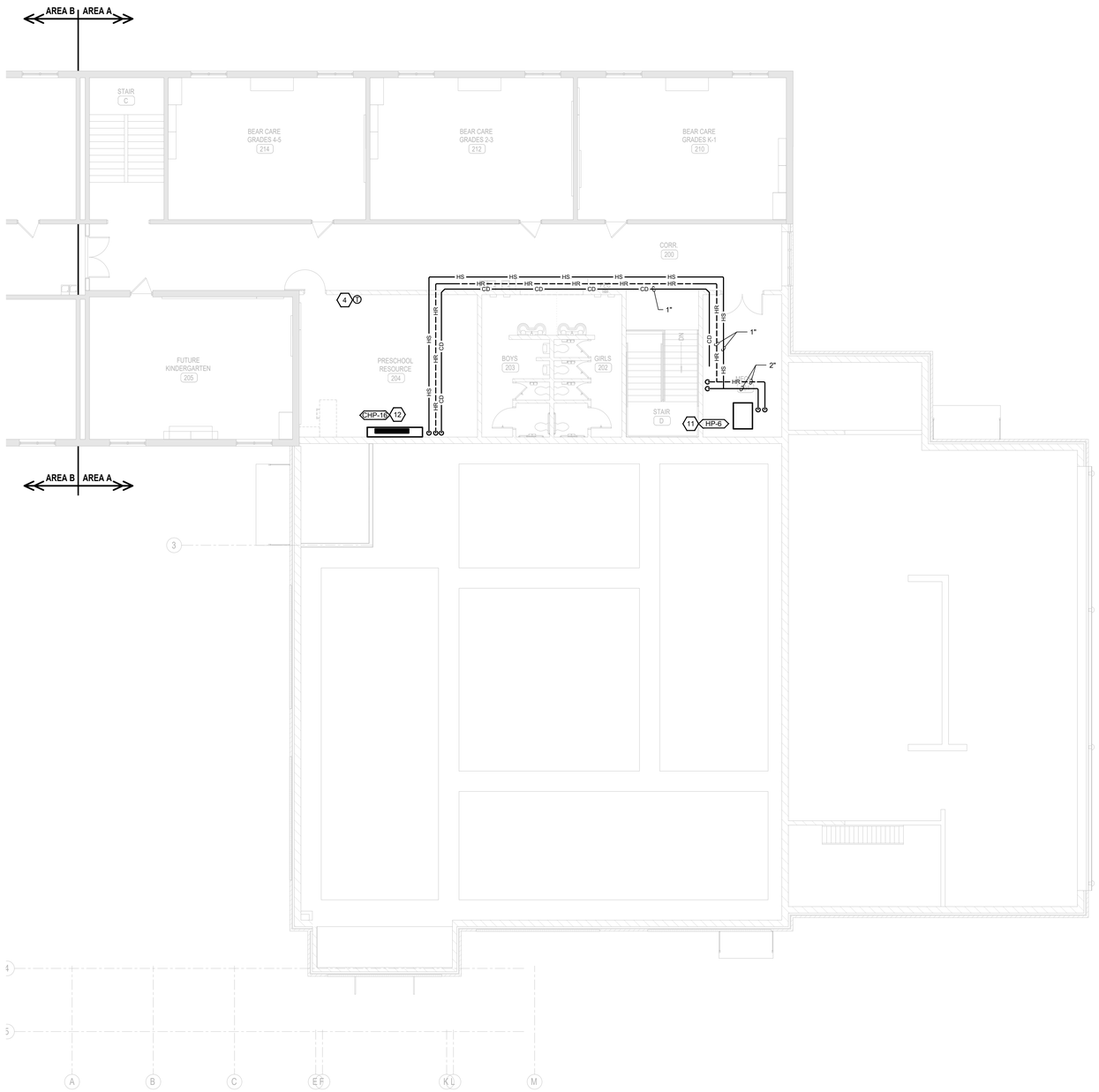
No.	Description	Date

SHEET

M2.1



1 SECOND FLOOR NEW WORK PLAN - MECHANICAL PIPING

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

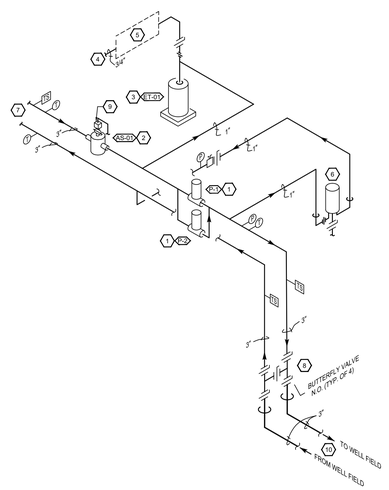
0 4' 8' 16'

GENERAL NOTES:

1. REPLACE ALL HYDRONIC VALVES FOR HEAT PUMPS.

SHEET KEYNOTES:

1. PROVIDE AND INSTALL IN-LINE PUMP SUSPENDED FROM STRUCTURE. P-2 SHALL BE MOUNTED BELOW P-1, AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE. ENSURE PROPER CLEARANCES ARE MAINTAINED FOR PUMP AND PUMP-MOUNTED VFD.
2. PROVIDE AND INSTALL IN-LINE AIR SEPERATOR SUSPENDED FROM STRUCTURE WHERE INDICATED.
3. INSTALL EXPANSION TANK ON 4" HOUSEKEEPING PAD WHERE INDICATED PER MANUFACTURER'S INSTRUCTIONS.
4. 3/4" DOMESTIC WATER MAKE-UP.
5. 3/4" MAKE-UP WATER ASSEMBLY BY MECHANICAL CONTRACTOR.
6. SYSTEM WATER FILTER/CHEMICAL FEEDER.
7. ROUTE 3" HPS AND HPR ABOVE CEILING TO SERVE THE BUILDING.
8. ROUTE 3" HPS AND HPR PIPED DOWN THROUGH FLOOR TO MINIMUM 48" BELOW GRADE. PROVIDE BYPASS VALVE ASSEMBLY AT BOTTOM OF RISER.
9. INSTALL PRESSURE RELIEF VALVE WHERE INDICATED SET TO 80 PSIG. ROUTE DISCHARGE LINE TO SPILL INTO FLOOR DRAIN.
10. REFER TO SHEET U1.2 FOR CONTINUATION.
11. PROVIDE AND INSTALL VERTICAL HEAT PUMP WHERE INDICATED PER MANUFACTURERS INSTRUCTIONS. ROUTE CONDENSATE TO FLOOR DRAIN AND CONNECT HPS/HPR PIPING.



2 MECHANICAL ROOM ISOMETRIC

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

0 4' 8' 16'

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TAYLORSVILLE, KENTUCKY

SECOND FLOOR NEW WORK PLAN - MECHANICAL PIPING

JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

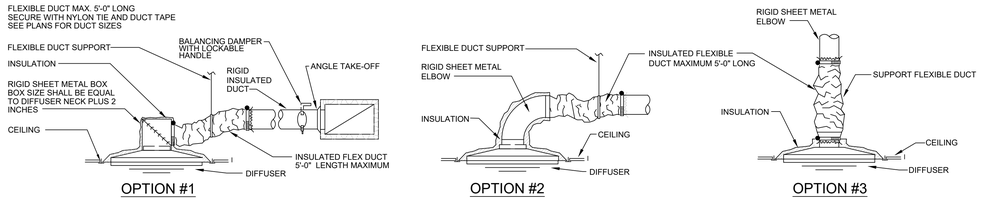
No.	Description	Date

SHEET

M2.2

NOTE:
PROVIDE A MINIMUM OF FOUR (4) SHEET METAL SCREWS THRU 3-WRAPS OF DUCT TAPE TO SECURE FLEXIBLE DUCT TO THE SHEET METAL PRIOR TO INSTALLING THE 1/4" WIDE PLENUM RATED NYLON TIE. THE FLEXIBLE DUCT INSULATION SHALL BE SECURED WITH 3-WRAPS OF DUCT TAPE.

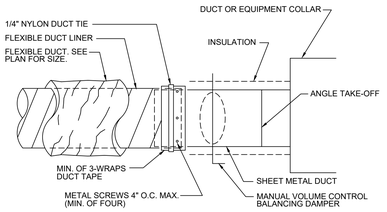
NOTE:
ALL MATERIALS USED FOR DUCT CONNECTION MUST BE PLENUM RATED.



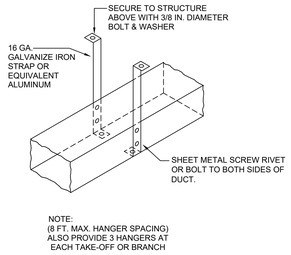
DIFFUSER RUNOUT DETAIL
NO SCALE

NOTE:
PROVIDE A MIN. OF FOUR (4) SHEET METAL THRU 3-WRAPS OF DUCT TAPE TO SECURE FLEXIBLE DUCT TO THE SHEET METAL PRIOR TO INSTALLING THE 1/4" WIDE PLENUM RATED NYLON TIE. THE FLEXIBLE DUCT INSULATION SHALL BE SECURED WITH 3-WRAPS OF DUCT TAPE.

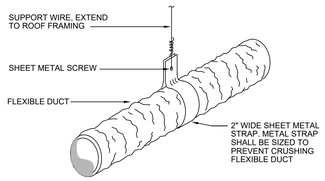
NOTE:
ALL MATERIALS USED FOR DUCT CONNECTION MUST BE PLENUM RATED.



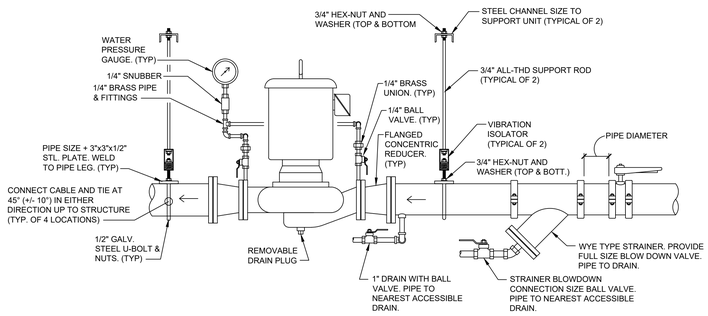
FLEXIBLE DUCT CONNECTION
NO SCALE



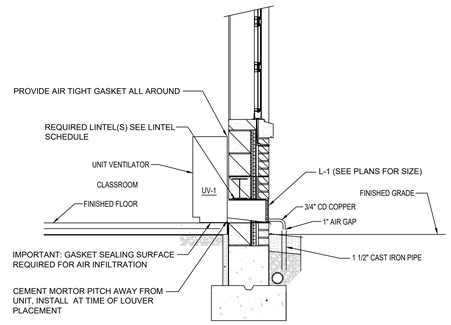
RECTANGULAR DUCT HANGER DETAIL
NO SCALE



FLEXIBLE DUCT SUPPORT DETAIL
NO SCALE



IN-LINE PUMP DETAIL (SUSPENDED)
NO SCALE

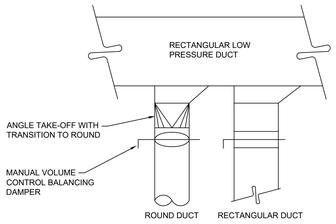


UNIT VENTILATOR THRU WALL SECTION
NO SCALE

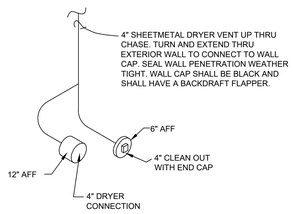
HANGER STRAPS OR RODS			
MAX. DUCT DIA.	HANGER	MAX. LOAD lb.	MAX. SPACING FT.
48"	ONE 1"x 22 GA STRAP	260	12

NOTE:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

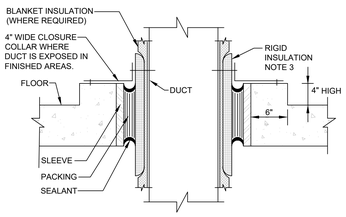
ROUND DUCT HANGER DETAIL
NO SCALE



LOW PRESSURE BRANCH TAKE OFF DETAIL
NO SCALE



DRYER VENT DETAIL
NO SCALE



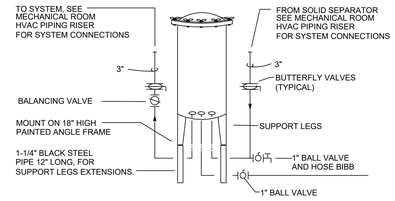
NOTES:

1. EXTERNALLY INSULATED DUCT SHALL BE CAULKED TO PROVIDE A COMPLETE SEAL BETWEEN THE INSULATION AND CLOSURE COLLAR

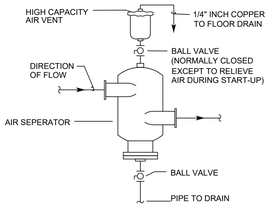
2. THIS DETAIL IS FOR NONFIRE-RATED CONSTRUCTION. DUCT PENETRATIONS IN FIRE-RATED CONSTRUCTION WHERE FIRE DAMPER IS NOT REQUIRED SHALL BE FIRESTOPPED WITH A UL-CLASSIFIED SYSTEM.

3. RIGID INSULATION SHALL BE SAME THICKNESS AS FLEXIBLE BLANKET INSULATION

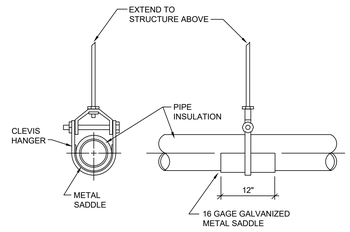
DUCT PENETRATION THROUGH FLOOR DETAIL
NO SCALE



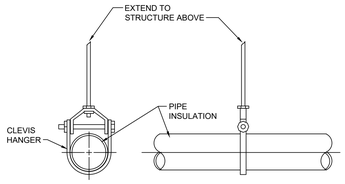
COMBINATION FILTER/ POT FEEDER DETAIL
NO SCALE



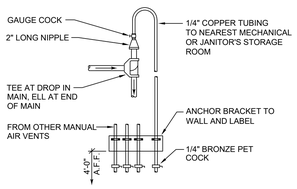
AIR SEPARATOR PIPING DETAIL
NO SCALE



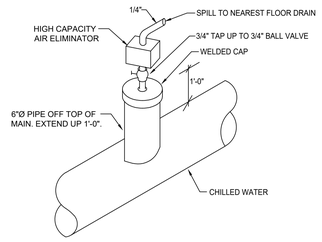
INSULATED PIPE HANGER DETAIL
NO SCALE



UNINSULATED PIPE HANGER DETAIL
NO SCALE



MANUAL AIR VENT DETAIL
NO SCALE



AIR ELIMINATION POCKET DETAIL
NO SCALE

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TAYLORSVILLE, KENTUCKY

MECHANICAL DETAILS

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SHEET

M5.1

WATER-SOURCE HEAT PUMP CONSOLE UNIT SCHEDULE

MARK (CHP-#)	MANUFACTURER	MODEL	NOMINAL TONNAGE	CAPACITY MODULATION	ESP (IN H20)	AIRFLOW (CFM)	FLUID FLOW (GPM)	WPD (FT H20)	COOLING CAPACITIES							HEATING CAPACITIES					ELECTRICAL						REMARKS
									LWT (°F)	LAT		TOTAL (MBTU/HR)	SENSIBLE (MBTU/HR)	HEAT OF REJECTION (MBTU/HR)	EER AT AHRI GEO LOOP CONDITIONS	LWT (°F)	LDB (°F)	TOTAL (MBTU/HR)	HEAT OF ABSORPTION (BTU/HR)	COP AT AHRI GEO LOOP CONDITIONS	V/Hz/Ø	COMP RLA	FAN MOTOR FLA	TOTAL UNIT FLA	MCA	MOCP	
										LDB (°F)	LWB (°F)																
7,8,9,10,11	DAIKIN	UGRQ9024	2	FULL	-	1000	6	1.53	94.3	59	55.3	22.3	16.8	28	13.1	29	94	24	22.20	4.20	208/60/1	10.2	2.7	12.9	17.7	25	XX
1,2,3,4,5,6	DAIKIN	UGRQ9040	3	FULL	-	1200	9.00	7.20	94.2	56.4	52.8	37.5	25.2	46.7	13.8	27.2	90.0	38.6	34.20	4.00	208/60/1	12.5	2.7	15.2	25.4	40	XX
12,13	DAIKIN	WMHC2012	1	FULL	-	400	3.00	15.50	94.1	54.8	52.5	10.6	7.8	13.4	12.8	48.7	100.7	11.9	9.20	4.14	208/60/1	4.4	0.3	4.7	5.8	15	XX
14	DAIKIN	WMHC2018	1.5	FULL	-	500	4.50	12.60	93.5	56.1	51.0	16	9.6	19.2	15.5	49.0	103.7	17.30	13.30	4.31	208/60/1	6.2	0.5	6.7	8.2	15	XX
15	DAIKIN	WMHC2007	0.5	FULL	-	275	1.50	3.20	98.2	56.5	56.4	8.1	5.8	9.9	15.4	38.1	92.9	6.8	5.20	4.30	208/60/1	2.9	0.4	3.3	4.0	15	

Remarks:
1. HORIZONTAL UNIT
2. VERTICAL UNIT
3. PROVIDE WITH FLEXIBLE DUCT CONNECTIONS
4. PROVIDE UNIT CONNECTION SIZE HOSE KITS
5. PROVIDE PIPING RUN-OUT SPRING TYPE VIBRATION ISOLATORS
6. PROVIDE VIBRATION ISOLATORS AS REQUIRED
7. PROVIDE WITH HOT GAS REHEAT
8. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS
9. VARIABLE SPEED COMPRESSOR

SELCTIONS BASED ON THE FOLLOWING CONDITIONS: COOLING FULL CAPACITY 80 EDB / 67 EWB, 77 EWT (PART LOAD MODULATION 70 EDB / 59 EWB, 60 EWT). HEATING FULL CAPACITY 68 EDB, 32 EWT (PART LOAD MODULATION 70 EDB, 75 EWT). ANTIFREEZE: 20% EXOENDOSOL CONCENTRATION BY VOLUME.
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CLIMATEMASTER, FLORIDA HEAT PUMP, TRANE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PACKAGED ROOF TOP UNIT ENERGY RECOVERY UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	UNIT							COOLING						HEAT PUMP HEATING				AUXILIARY ELECTRIC HEATING				HEAT RECOVERY				ELECTRICAL			REMARKS
			EER / SEER	SUPPLY FAN			RETURN/EXHAUST FAN			LAT		TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COMPRESSOR			TOTAL CAPACITY (MBH)	O/A TEMP (°F)	EAT (°F)	LAT (°F)	TYPE	SIZE	TOTAL CAPACITY (MBH)	EDB/LDB	WINTER SUPPLY LDB/LWB F	WINTER RETURN EDB/EWB F	SUMMER SUPPLY LDB/LWB F	SUMMER RETURN EDB/EWB F	V/Ø/Hz	MCA	MOCP	
				AIRFLOW (CFM)	TSP (inH²O)	MOTOR SIZE (HP)	AIRFLOW (CFM)	TSP (inH²O)	MOTOR SIZE (HP)	LDB (F)	LWB(F)			STAGES	QTY	REFRIGERANT															
ERU-01	DAIKIN	DPS016A	12	4400	2.33	5	4200	1	4	54.7	54.6	179.1	124.9	Multiple	1	410A	166.4	5	48.2	82.8	Electric	30KW	102	48.2/69.7	48.2/37.2	70/50	80.6/67.7	75/62	208/60/3	194.3	225	ALL

REMARKS:
1. COOLING DESIGN CONDITIONS: EAT 75F DB / 62F WB AND 95F DB / 78F WB AMBIENT. HEATING AMBIENT DESIGN CONDITIONS BASED ON 5F DB / 4F WB.
2. AIR SOURCE HEAT PUMP
3. PROVIDE ROOF TOP UNIT WITH ROOF CURB.
4. WITH AUXILIARY ELECTRIC HEAT THAT CAN RUN SIMULTANEOUSLY WITH COMPRESSORS
5. SINGLE POINT POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH AND 115V GFI CONVENIENCE OUTLET.
6. ENERGY RECOVERY WHEEL
7. FAN CYCLING CONTROL OPTION
8. HIGH AND LOW PRESSURE SWITCH.
9. COMPRESSOR SHORT CYCLE TIMER.
10. PROVIDE WITH HAIL GUARD.
11. FACTORY MOUNTED DDC CONTROLLERS WITH BACNET INTERFACE.
12. SEE SPECIFICATIONS FOR MORE INFORMATION
13. MODULAR HOT GAS REHEAT
14. VFD'S ON SUPPLY AND RETURN FANS.
15. PROVIDE WITH PHASE PROTECTION.
16. PROVIDE WITH SMOKE DETECTOR SHUT DOWN.
17. PROVIDE UNIT WITH CUSTOM COLOR OPTION. COLOR BY ARCHITECT.
18. PROVIDE UNIT WITH 2", 30% EFFICIENCY PRIMARY FILTERS.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: XXXXX, XXXXX, XXXXX. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

WATER-SOURCE HEAT PUMP CONSOLE UNIT SCHEDULE

MARK (CHP-#)	MANUFACTURER	MODEL	NOMINAL TONNAGE	CAPACITY MODULATION	ESP (IN H20)	AIRFLOW (CFM)	FLUID FLOW (GPM)	WPD (FT H20)	COOLING CAPACITIES							HEATING CAPACITIES					ELECTRICAL						REMARKS
									LWT (°F)	LAT		TOTAL (MBTU/HR)	SENSIBLE (MBTU/HR)	HEAT OF REJECTION (MBTU/HR)	EER AT AHRI GEO LOOP CONDITIONS	LWT (°F)	LDB (°F)	TOTAL (MBTU/HR)	HEAT OF ABSORPTION (BTU/HR)	COP AT AHRI GEO LOOP CONDITIONS	V/Hz/Ø	COMP RLA	FAN MOTOR FLA	TOTAL UNIT FLA	MCA	MOCP	
										LDB (°F)	LWB (°F)																
7,8,9,10,11	DAIKIN	UGRQ9024	2	FULL	-	1000	6	1.53	94.3	59	55.3	22.3	16.8	28	13.1	29	94	24	22.20	4.20	208/60/1	10.2	2.7	12.9	17.7	25	XX
1,2,3,4,5,6	DAIKIN	UGRQ9040	3	FULL	-	1200	9.00	7.20	94.2	56.4	52.8	37.5	25.2	46.7	13.8	27.2	90.0	38.6	34.20	4.00	208/60/1	12.5	2.7	15.2	25.4	40	XX
12,13	DAIKIN	WMHC2012	1	FULL	-	400	3.00	15.50	94.1	54.8	52.5	10.6	7.8	13.4	12.8	48.7	100.7	11.9	9.20	4.14	208/60/1	4.4	0.3	4.7	5.8	15	XX
14	DAIKIN	WMHC2018	1.5	FULL	-	500	4.50	12.60	93.5	56.1	51.0	16	9.6	19.2	15.5	49.0	103.7	17.30	13.30	4.31	208/60/1	6.2	0.5	6.7	8.2	15	XX
15	DAIKIN	WMHC2007	0.5	FULL	-	275	1.50	3.20	98.2	56.5	56.4	8.1	5.8	9.9	15.4	38.1	92.9	6.8	5.20	4.30	208/60/1	2.9	0.4	3.3	4.0	15	

Remarks:
1. HORIZONTAL UNIT
2. VERTICAL UNIT
3. PROVIDE WITH FLEXIBLE DUCT CONNECTIONS
4. PROVIDE UNIT CONNECTION SIZE HOSE KITS
5. PROVIDE PIPING RUN-OUT SPRING TYPE VIBRATION ISOLATORS
6. PROVIDE VIBRATION ISOLATORS AS REQUIRED
7. PROVIDE WITH HOT GAS REHEAT
8. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS
9. VARIABLE SPEED COMPRESSOR

SELCTIONS BASED ON THE FOLLOWING CONDITIONS: COOLING FULL CAPACITY 80 EDB / 67 EWB, 77 EWT (PART LOAD MODULATION 70 EDB / 59 EWB, 60 EWT). HEATING FULL CAPACITY 68 EDB, 32 EWT (PART LOAD MODULATION 70 EDB, 75 EWT). ANTIFREEZE: 20% EXOENDOSOL CONCENTRATION BY VOLUME.
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CLIMATEMASTER, FLORIDA HEAT PUMP, TRANE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	CFM	BTUH	ELECTRICAL				REMARKS
						V/Ø/Hz	KW	MCA	MOCP	
EH-1-7	MARKEL	HF3325TD	WALL MOUNTED	175	7,763	208/1/60	2.25	10.8	15	1,4,5
EH-8	MARKEL	F1F5105	UNIT HEATER	400	17,100	208/1/60	5	24.1	30	1,4
EH-9-14	MARKEL	E3321TD	WALL MOUNTED	175	2,560	120/1/60	0.75	6.25	15	1,4,5

REMARKS:
1. INTEGRAL THERMOSTAT AND DISCONNECT
2. INTEGRAL DISCONNECT AND WALL THERMOSTAT
3. INSTALL IN LAY-IN CEILING
4. PROVIDE REQUIRED MOUNTING BRACKET FOR MOUNTING AS INDICATED ON PLANS
5. SEMI-RECESSED WALL UNIT. BOTTOM OF UNIT SHALL BE AT 12" AFF
6

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: Q-MARK, REDDI. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	SYSTEM VOLUME (GAL)	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	REMARKS
ET-1	BELL & GOSSETT	B-100	MECH RM.	38,000	1057	53	ALL

REMARKS:
1. ASME RATED
2. 100 PSIG PRESSURE RATING
3. SYSTEM VOLUME CALCULATED FROM DESIGN DOCUMENTS. CONTRACTOR TO VERIFY ACTUAL VOLUME OF INSTALLED SYSTEM.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: WESSELS, WATTS.
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

AIR SEPARATOR SCHEDULE

MARK	MANUFACTURER	MODEL	INLET/OUTLET CONNECTIONS	FLOW GPM	REMARKS
AS-1	BELL & GOSSETT	R-3F	3"/3"	105	ALL

REMARKS:
1. ASME RATED COMPLETE WITH INTERNAL STRAINER AND AUTOMATIC AIR VENT

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: ARMSTRONG, WESSELS
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION/FEEDING	FLOW (GPM)	HEAD (FT)	RPM	PUMP CONFIG.	CONNECTIONS		ELECTRICAL				REMARKS
								INLET	OUTLET	HP	V / Ø / Hz	MCA	MOCP	
P-1,2	BELL & GOSSETT	E90 1.5AAB	MECHROOM/GEOTHERMAL	90	65	3600	INLINE	2"	2"	5	208/3/60	25	30	1 2 3 4 5 6
P-3-17	BELL & GOSSETT	PL-36	CONSOLE UNITS	9	35	3300	INLINE	1-1/2"	1-1/2"	1/6	115/1/60	2.1	15	

REMARKS:
1. PUMPS SHALL BE RATED FOR CONTINUOUS DUTY.
2. PROVIDE HOA STARTER/DISCONNECT FOR EACH PUMP WITH CONTROL TRANSFORMER.
3. PROVIDE WITH SUCTION DIFFUSER AND TRIPLE DUTY VALVE.
4. MOTOR SHALL BE NON-OVERLOADING.
5. PROVIDE PHASE FAILURE RELAY.
6. PROVIDE WITH VARIABLE FREQUENCY DRIVE. TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.
7. PROVIDE WITH STRAINER.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: TACO, CRANE, ARMSTRONG. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP (IN H20)	SONES	DRIVE TYPE	RPM	ELECTRICAL				REMARKS
								V/Ø/Hz	HP	MCA	MOCP	
EF-1-13	COOK	GC-144	75	0.25	1.2	DIRECT	775	120/1/60	FRAC.	2.2	15	1,2,3,4,5
EF-14	COOK	GC-164	150	0.25	3.4	DIRECT	1112	120/1/60	FRAC.	3.1	15	1,2,3,4,5
EF-15,16	COOK	GC-542	300	0.25	4.0	DIRECT	1389	120/1/60	FRAC.	5.1	15	1,2,3,4,5
EF-17,18	COOK	GC-164	200	0.25	4.1	DIRECT	1374	120/1/60	FRAC.	3.1	15	1,2,3,4,8

REMARKS:
1. PROVIDE WITH UNIT MOUNTED DISCONNECT
2. PROVIDE WITH UNIT MOUNTED SPEED CONTROL
3. PROVIDE WITH APPROPRIATE BACKDRAFT DAMPER
4. CEILING MOUNTED WITH APPROPRIATE CEILING GRILLE
5. INTERLOCK WITH WALL SWITCH, COORDINATE WITH ELECTRICAL CONTRACTOR
6. SUPPORT FROM THE STRUCTURE
7. ROOF MOUNTED, DOWN BLAST, PROVIDE WITH APPROPRIATE ROOF CURB (MIN. 12"). ROOF SLOPE SHALL BE CONFIRMED PRIOR TO ORDERING ROOF CURB
8. INTERLOCK EXHAUST FAN TO THERMOSTAT AS INDICATED ON DRAWING M3.0. EXHASUT FAN SHALL ACTIVATE WHEN TEMPERATURE IN ROOM IS ABOVE 75 F (ADJ)

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CARNES, GREENHECK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	MAX CFM	MODULE	AIR PATTERN	NECK	MAX NC	REMARKS
S-1	KRUEGER	1400	100	24x24	4-WAY	6" ROUND	20	2,3,5
S-2	KRUEGER	1400	200	24x24	3-WAY	8" ROUND	20	2,3,5
S-3	KRUEGER	1400	400	24x24	4-WAY	10" ROUND	20	2,3,5
S-4	KRUEGER	5800	200	12X8	3-WAY	10X8	20	3,5,7,9
S-5	KRUEGER	1900	300	6X48	1-WAY	10" ROUND	20	1,3,4,5,10,11
R-1	KRUEGER	S580	-	24x24	-	22x22	20	2,3,5
R-2	KRUEGER	S580	-	24X24	-	22X22	20	2,3,5,8
R-3	KRUEGER	S580H	-	32X14	-	30X12	20	3,5,6,9
R-4	KRUEGER	S580H	-	62X32	-	60X30	20	3,5,6,9
E-1	KRUEGER	S580	-	24x24	-	22x22	20	2,3,5

REMARKS:
1. SURFACED MOUNTED
2. LAY-IN TYPE
3. PROVIDE WITH WHITE FINISH
4. 1" SLOT WIDTH, 4-SLOT
5. COORDINATE AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS PRIOR TO INSTALLATION. LIGHTING HAS PRIORITY OVER HVAC
6. OPPOSED BLADE DAMPER
7. DOUBLE DEFLECTION GRILLE
8. HINGED FILTER GRILLE WITH MINIMUM TWO THUMB SCREWS
9. SIDEWALL MOUNTED
10. LINEAR SLOT DIFFUSER
11. PROVIDE INSULATED PLENUM

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: PRICE, TITUS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	INTAKE / EXHAUST	SIZE			CFM	PRESSURE DROP (IN)	FREE AREA (SQ FT)	VELOCITY (FPM)	REMARKS
				WIDTH	HEIGHT	DEPTH					
L-1-5	UNITED ENERTECH	BVE128	EXHAUST	12	8	4	150	0.09	0.236	800	1,2,3

REMARKS:
1. LOUVER COLOR SELECTED BY ARCHITECT
2. COORDINATE ALL LOUVER LOCATIONS WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION
3. ALUMINUM CONSTRUCTION
4. DRAINABLE BLADES
5. STORM PROOF LOUVER
6. MAXIMUM NC LEVEL OF 25
7. PROVIDE WITH FACTORY MOUNTED DAMPER ACTUATOR. CONTROLS CONTRACTOR SHALL PROVIDE REQUIRED POWER TO ACTUATOR.
8. PROVIDE BIRD SCREEN
9. PROVIDE INSECT SCREEN
10

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: RUSKIN, GREENHECK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SHERMAN CARTER BARNHART ARCHITECTS

SHROUT TATE MECHANICAL AND ELECTRICAL ENGINEERS WILSON
Lexington - Louisville
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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

MECHANICAL SCHEDULES

JOB NO.	1759
DATE	12/16/19
DRAWN	BC
CHECKED	NM

REVISIONS

No.	Description	Date

SHEET

M6.1

ELECTRICAL LEGEND

LIGHTING

SYMBOL	DESCRIPTION
	SURFACE MOUNTED LUMINAIRE (NORMAL & EMERGENCY)
	RECESSED LUMINAIRE (NORMAL & EMERGENCY)
	WALL MOUNTED LUMINAIRE (NORMAL AND EMERGENCY)
	RECESSED LUMINAIRE (NORMAL AND EMERGENCY)
	SURFACE MOUNTED LUMINAIRE (NORMAL AND EMERGENCY)
	LINEAR PENDANT LUMINAIRE (NORMAL AND EMERGENCY)
	CIRCULAR LUMINAIRE (NORMAL AND EMERGENCY)
	WALL BRACKET LUMINAIRE (NORMAL AND EMERGENCY)
	INDUSTRIAL STRIP LUMINAIRE (NORMAL AND EMERGENCY)
	TRACK LUMINAIRE
	CEILING FAN
	TWO-HEAD EMERGENCY LIGHTING UNIT
	EMERGENCY REMOTE HEAD (SINGLE OR DOUBLE)
	EMERGENCY EXIT SIGN WITH COMBINATION EMERGENCY LUMINAIRE WALL AND CEILING MOUNT
	EMERGENCY EXIT SIGN - SINGLE FACE WITH ARROWS AS INDICATED WALL AND CEILING MOUNTED
	EMERGENCY EXIT SIGN - DOUBLE FACE
	POLE MOUNTED LUMINAIRE
	FLOOD OR SPOT LUMINAIRE
	BOLLARD OR POST TOP LUMINAIRE
	LIGHTING CONTROL ROOM TAG
PC	PHOTOCELL
EP	EMERGENCY POWER PACK
EB	EMERGENCY BYPASS RELAY (UL924)
ET	EMERGENCY TRANSFER CONTROL (UL1008)
BP	BATTERY PACK
LCP	LIGHTING CONTROL POWER PACK
RP	LOW VOLTAGE LIGHTING RELAY PANEL
PLC	PLUG LOAD CONTROL PACK
C	CONTACTOR, POLES AS REQUIRED
DL	DAYLIGHT SENSOR
OSX	DUAL TECHNOLOGY LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH POWER PACK AND CEILING MOUNT BRACKET. MOUNT IN CEILING TILE UNLESS OTHERWISE NOTED.
OS	DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED, 360° OCCUPANCY SENSOR.
	LIGHTING CONTROL PANEL
	LIGHT SWITCH - SUBSCRIPT INDICATES THE FOLLOWING : 3 - 3 WAY, 4 - 4 WAY, K - KEY OPERATED, D - DIMMER, OS - LINE VOLTAGE OCCUPANCY SENSOR, L - LOW VOLTAGE, M - MANUAL MOTOR STARTER W/ HANDLE GUARD KIT AND PADLOCK. SEE LIGHTING CONTROL DIAGRAM SHEET FOR OTHER SUBSCRIPTS.

ONE LINE DIAGRAM

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
GF	GROUND FAULT PROTECTION
VFD	VARIABLE FREQUENCY DRIVE
DMM	DIGITAL MONITORING METER
SPD	SURGE PROTECTION DEVICE
KWH	DIGITAL METER DISPLAY
M	POWER METERING DEVICE
	NON FUSED SWITCH
	FUSED SWITCH
	FUSE
	RELAY (NORMALLY OPEN)
	PANEL
	DOUBLE THROW SWITCH OR TRANSFER SWITCH
	3 POSITION SELECTOR SWITCH: LOCAL-OFF-REMOTE HAND-OFF-AUTOMATIC
	GROUND
	ELECTRIC HEATER

POWER

SYMBOL	DESCRIPTION
	TAMPER RESISTANT DUPLEX RECEPTACLE - SUBSCRIPT INDICATES THE FOLLOWING : C - ABOVE COUNTER, CM - CEILING MOUNTED, E - EMERGENCY, G - GROUND FAULT CIRCUIT INTERRUPTER, GB - BLANK FACE GROUND FAULT INTERRUPT, IG - ISOLATED GROUND, P - PLUG LOAD CONTROL, WP - WEATHER PROOF
	TAMPER RESISTANT QUADRUPLEX RECEPTACLE
	TAMPER RESISTANT SINGLE RECEPTACLE
	TAMPER RESISTANT SPECIAL PURPOSE RECEPTACLE
	TAMPER RESISTANT PEDESTAL MOUNTED RECEPTACLE
	TAMPER RESISTANT FLOOR MOUNTED RECEPTACLE AND COVERPLATE. SEE PLAN FOR CONFIGURATION.
	POKE THRU BOX
	COMBO POKE THRU BOX
	COMBINATION FLOOR BOX WITH THREE DUPLEX RECEPTACLES AND RJ45 DATA JACKS. PROVIDE WITH COVERPLATE. INSTALL CATEGORY UTP WET LOCATION CABLES IN A 1 INCH CONDUIT FROM THE DATA COMPARTMENT TO THE NEAREST MDF OR IDF (X - INDICATES THE NUMBER OF JACKS AND CABLES)
	EMERGENCY SHUT-OFF BUTTON
	JUNCTION BOX
	HAND DRYER
	DISCONNECT SWITCH (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	ENCLOSED CIRCUIT BREAKER DISCONNECT (SIZE/POLES/NEMA - OPTIONAL)
	COMBINATION MOTOR STARTER AND DISCONNECT (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	MOTOR STARTER (SIZE/FUSING/POLES/NEMA - OPTIONAL)
VFD	VARIABLE FREQUENCY DRIVE
	MOTOR
	CORD REEL
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT WITH END CAP
	EQUIPMENT CONNECTION
	CONDUIT CONTINUATION
	TRANSFORMER; X - INDICATES IDENTIFICATION
	SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL; X - INDICATES IDENTIFICATION
	FLUSH MOUNTED PANELBOARD; X - INDICATES IDENTIFICATION
	EXISTING SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL; X - INDICATES IDENTIFICATION
	EXISTING FLUSH MOUNTED PANELBOARD; X - INDICATES IDENTIFICATION
	GROUND ROD
	LOW-VOLTAGE CIRCUIT WITH CONDUCTOR TYPES AS REQUIRED BY THE MANUFACTURER FOR THE PARTICULAR SYSTEM.
	UTP LIGHTING CONTROL CABLE
	CIRCUIT CONNECTED TO EMERGENCY POWER
	SURFACE MOUNTED RACEWAY
4#8, 1#10, 1"C XX-XX	BRANCH CIRCUIT HOMERUN TO PANELBOARD. THE NUMBER OF TICK MARKS INDICATES THE NUMBER OF CONDUCTORS. LONG TICK MARKS REPRESENT UNGROUNDED CONDUCTORS. SHORT TICK MARKS REPRESENT GROUNDED CONDUCTORS (NEUTRAL). A GROUNDING CONDUCTOR (GROUND) SHALL BE INSTALLED WITH ALL CIRCUITS. TICK MARKS AND CONDUCTOR SIZES ARE ONLY SHOWN ON THE HOMERUN. INSTALL THE REQUIRED QUANTITY AND SIZE CONDUCTORS TO EACH DEVICE ON THE SAME CIRCUIT AS INDICATED ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE = #12 MINIMUM CONDUIT SIZE = 3/4 INCH SUBSCRIPT EXAMPLE: 4#8 = (3) UNGROUNDED AND (1) NEUTRAL CONDUCTORS SIZE IF OTHER THAN #12 1#10 = GROUNDING CONDUCTOR SIZE IF OTHER THAN #12 1"C = CONDUIT SIZE A-1,3,5 = PANEL NAME - POLE POSITION IN PANEL
	ELECTRICAL METER
	EXISTING UTILITY POLE
	NEW UTILITY POLE
	NEW UTILITY POLE WITH POLE MOUNTED TRANSFORMERS
	EXISTING UTILITY POLE WITH POLE MOUNTED TRANSFORMERS

DEMOLITION vs EXISTING LINE WEIGHTS

DEMO	EXISTING

FIRE ALARM

SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM STROBE (WALL & CEILING)
	FIRE ALARM COMBINATION AUDIO/VISUAL APPLIANCE. (WALL & CEILING)
S H A M CO SP CS	FIRE ALARM DEVICE - SUBSCRIPT INDICATES THE FOLLOWING : S - SMOKE DETECTOR, H - HEAT DETECTOR, A - ADDRESSABLE MODULE, CO - CARBON MONOXIDE DETECTOR, SP - SPEAKER, CS - COMBINATION SMOKE CARBON MONOXIDE DETECTOR.
	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	WALL MOUNTED MAGNETIC DOOR HOLDER
	FLOOR MOUNTED MAGNETIC DOOR HOLDER
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL. PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING.
FAA	FIRE ALARM ANNUNCIATOR. PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING.

SYSTEMS

SYMBOL	DESCRIPTION
	EXISTING COMMUNICATIONS OUTLET
WAP WAP	DATA OUTLET FOR WIRELESS ACCESS POINT WITH TWO RJ45 DATA JACKS WITH TWO UTP CABLES IN SURFACE RACEWAY, ONE INCH CONDUIT OR CABLE TRAY TO THE NEAREST MDF OR IDF. (WALL & CEILING)
#V/#D	VOICE/DATA OUTLET WITH # VOICE AND # OF DATA JACKS AND # UTP CABLES IN SURFACE RACEWAY, ONE INCH CONDUIT, OR CABLE TRAY TO THE NEAREST MDF OR IDF (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES), C - ABOVE COUNTER, CG - CEILING MOUNTED
#V/#D	PEDESTAL MOUNTED VOICE/DATA OUTLET WITH #VOICE AND # DATA JACKS AND # RJ45 DATA JACKS AND # UTP WET LOCATION CABLES IN A 1 INCH CONDUIT TO THE NEAREST MDF OR IDF. (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES)
#V/#D	FLOOR BOX WITH # RJ45 DATA JACKS. PROVIDE WITH COVERPLATE. INSTALL # UTP WET LOCATION CABLES IN A 1 INCH CONDUIT FROM THE DATA COMPARTMENT TO THE NEAREST MDF OR IDF (# - INDICATES THE NUMBER OF JACKS AND CABLES)
	MULTIMEDIA OUTLET. 4 11/16" OUTLET BOX WITH TWO 1-1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING. (WALL & CEILING)
V	VGA/RCA OUTLET WITH ONE VGA CONNECTOR AND TWO RCA CONNECTORS. INSTALL CABLES IN SURFACE RACEWAY, 1-1/4 INCH CONDUIT, J-HOOKS OR CABLE TRAY. THE VGA CABLE MUST BE RAPID RUN TYPE WITH REMOVABLE LEADS OR APPROVED EQUAL.
T	TELEVISION OUTLET WITH ONE F-TYPE CONNECTOR WITH COAXIAL CABLE IN SURFACE RACEWAY, 3/4 INCH CONDUIT, OR CABLE TRAY TO THE TELEVISION DISTRIBUTION SYSTEM
	PROJECTOR (CEILING & WALL MOUNT)
ACC	ADMINISTRATIVE CONTROL CENTER. CONNECT TO THE INTERCOM SYSTEM AS REQUIRED
DB	DOOR RELEASE BUTTON
	INTERCOM SPEAKER (CEILING; RECESSED WALL-MOUNTED; HORN-TYPE WALL MOUNTED
	INTERCOM SPEAKER WITH INTEGRAL VOLUME CONTROL (CEILING & WALL MOUNT)
	SELF-AMPLIFIED SPEAKER (CEILING & WALL MOUNT)
SC SG SM	SOUND SYSTEM SPEAKER (SC - CAFETERIA; SG - GYMNASIUM; SM - MEDIA CENTER)
V	SPEAKER VOLUME CONTROL
D A	SINGLE SIDED CLOCK (DIGITAL & ANALOG)
D A	DOUBLE SIDED CLOCK (DIGITAL & ANALOG)
M	MICROPHONE OUTLET
A	AUXILIARY INPUT OUTLET FOR THE LOCAL SOUND SYSTEM
	INTERCOM CALL BUTTON
	CABLE TRAY. MINIMUM DIMENSIONS AS INDICATED ON DRAWINGS.
	FLOOR MOUNTED FOUR POST DATA RACK, 84 INCHES TALL, 30 INCHES DEEP, WITH VERTICAL WIRE MANAGEMENT.
	FLOOR MOUNTED TWO POST DATA RACK, 84 INCHES TALL, 30 INCHES DEEP, WITH VERTICAL WIRE MANAGEMENT.
DB	DOORBELL PUSH BUTTON
DB	DOORBELL AUDIO/VISUAL NOTIFICATION DEVICE
S	SECURITY SYSTEM SIREN
I	SECURITY INTERCOM STATION
K	SECURITY SYSTEM KEY PAD
CR	SECURITY SYSTEM CARD READER
	SECURITY SYSTEM AUDIO SENSOR
M M	SECURITY SYSTEM MOTION DETECTOR (CEILING & WALL); X - DEGREE OF MOTION
	CEILING MOUNTED SECURITY SYSTEM CAMERA
	WALL MOUNTED SECURITY SYSTEM CAMERA
DC	DOOR CONTACT/POSITION SWITCH
A	PRESS PLATE FOR AUTOMATIC DOOR OPERATOR
ADH	ACCESS POINTS WITH ELECTRIFIED DOOR HARDWARE
	SOUND SYSTEM ANTENNA

ABBREVIATIONS

±10'	+10' INDICATES THE MOUNTING HEIGHT OF THE DEVICE TO BOTTOM.
1Ø	1-PHASE
3Ø	3-PHASE
BTM	BOTTOM
C	DEVICE TO BE INSTALLED 4 INCHES ABOVE COUNTER BACKSPLASH.
CT	CURRENT TRANSFORMER
EOE	EXISTING OVERHEAD ELECTRIC
EOF	EXISTING OVERHEAD FIBER OPTIC
EOP	EXISTING OVERHEAD PRIMARY
EOS	EXISTING OVERHEAD SECONDARY
EOT	EXISTING OVERHEAD TELEPHONE
EUE	EXISTING UNDERGROUND ELECTRIC
EUF	EXISTING UNDERGROUND FIBER OPTIC
EUP	EXISTING UNDERGROUND PRIMARY
EUS	EXISTING UNDERGROUND SECONDARY
EUT	EXISTING UNDERGROUND TELEPHONE
EOTV	EXISTING OVERHEAD TELEVISION
EUTV	EXISTING UNDERGROUND TELEVISION
GF	GROUND FAULT PROTECTION
GND	GROUND
KWH	KILO WATT HOUR
OE	OVERHEAD ELECTRIC
OF	OVERHEAD FIBER OPTIC
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OT	OVERHEAD TELEPHONE
OTV	OVERHEAD TELEVISION
PT	POTENTIAL TRANSFORMER
SPD	SURGE PROTECTIVE DEVICE
T	DEVICE TO BE WALL MOUNTED 72 INCHES ABOVE FINISHED FLOOR.
UE	UNDERGROUND ELECTRIC
UF	UNDERGROUND FIBER OPTIC
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
UT	UNDERGROUND TELEPHONE
UTP	UNSHIELDED TWISTED PAIR
UTV	UNDERGROUND TELEVISION
W	DEVICE TO BE WALL MOUNTED 48 INCHES ABOVE FLOOR.
WG	PROVIDE DEVICE WITH MANUFACTURER'S WIREGUARD.
WP	PROVIDE DEVICE WITH WEATHERPROOF COVER. RECEPTACLES TO BE WEATHER-RESISTANT TYPE AND PROVIDED WITH A CAST ALUMINUM, EXTRA DUTY, WHILE-IN-USE COVER.

ELECTRICAL DEVICE MOUNTING HEIGHTS

SWITCHES	48 INCHES TO TOP
INTERIOR RECEPTACLES	16 INCHES TO BOTTOM
EXTERIOR RECEPTACLES	24 INCHES TO BOTTOM
COMMUNICATIONS / DATA OUTLETS	16 INCHES TO BOTTOM
FIRE ALARM MANUAL PULL STATIONS	48 INCHES TO TOP
FIRE ALARM HORN/STROBE SIGNAL	80 INCHES TO BOTTOM
FIRE ALARM STROBE SIGNAL	80 INCHES TO BOTTOM
WALL TELEPHONES	48 INCHES TO TOP
TELEVISION OUTLETS	72 INCHES TO BOTTOM
CLOCKS	96 INCHES TO TOP
NOTE: MOUNTING HEIGHTS UNLESS OTHERWISE NOTED ON DRAWINGS.	

LOW-VOLTAGE CABLING COLOR STANDARDS

WAPs	YELLOW
DATA	BLUE
SECURITY CAMERAS	ORANGE

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TAYLORSVILLE, KENTUCKY

ELECTRICAL LEGEND

JOB NO.	1759
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GENERAL NOTES:

DEMOLITION

1. ALL ELECTRICAL DEVICES SHOWN AS LIGHTER WEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. ALL ELECTRICAL DEVICES SHOWN IN HEAVIER WEIGHT SHALL BE REMOVED UNLESS OTHERWISE NOTED.
3. CONDUCTORS FOR REMOVED DEVICES AND EXPOSED CONDUITS SHALL BE REMOVED.
4. WHERE ANY EXISTING ELECTRICAL DEVICES ARE SHOWN TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL RECONNECT WIRING AS REQUIRED TO ENSURE ALL DOWNSTREAM DEVICES REMAIN OPERATIONAL.
5. REMOVE ALL EXISTING AND ACCESSIBLE ABANDONED LOW VOLTAGE CABLING. ACCESSIBLE AREAS INCLUDE, BUT NOT LIMITED TO, ABOVE LAY-IN CEILINGS, BELOW RAISED FLOORS AND EXPOSED LOCATIONS.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHERE WALLS, SLABS AND MATERIALS HAVE BEEN CUT, REMOVED OR MODIFIED AS A RESULT OF DEMOLITION. PATCHING AND REPAIRS SHALL MATCH THE ADJACENT EXISTING MATERIALS, RATINGS AND FINISHES.
7. COORDINATE WITH MECHANICAL CONTRACTOR FOR TIMING/SEQUENCE OF ELECTRICAL DEMOLITION ASSOCIATED WITH MECHANICAL EQUIPMENT. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL DEMOLITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REMOVING THE ELECTRICAL CONNECTION TO EQUIPMENT.
8. ALL EXISTING UTILITIES AND DEVICES SHOWN HAVE BEEN COMPILED FROM SITE SURVEYS, RECORD DRAWINGS AND VISUAL SITE INSPECTIONS. ALL DEVICES ITEMS TO BE REMOVED MAY NOT BE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH THE EXTENT OF THE DEMOLITION WORK REQUIRED.
9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL EXISTING DEVICES AND SYSTEMS ACTIVE UNTIL THEY ARE DEMOLISHED IN THEIR RESPECTIVE PHASES. PROVIDE ALL TEMPORARY CONNECTIONS AS REQUIRED. COORDINATE ALL DEMOLITION WORK WITH THE TIMING/SEQUENCE OF NEW WORK.
10. ALL EXISTING FLUORESCENT LIGHT FIXTURES TO BE ABANDONED AND REMOVED IN THIS CONTRACT, SHALL BE ASSUMED TO BE EQUIPPED WITH PCB FILLED BALLASTS. LIGHT FIXTURES SHALL BE DISASSEMBLED AND THE BALLAST REMOVED PRIOR TO SALVAGE AND/OR DISPOSAL. BALLASTS CONTAINING PCB'S SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SITE UTILITIES:

1. COORDINATE ALL SITE UTILITY WORK WITH THE FOLLOWING:

   POWER COMPANY
   NAME - NUMBER

   TELEVISION COMPANY
   NAME - NUMBER

   TELEPHONE COMPANY
   NAME - NUMBER

2. ALL COSTS FROM THE UTILITY COMPANIES LISTED ABOVE SHALL BE THE ELECTRICAL CONTRACTOR'S FINANCIAL RESPONSIBILITY.
3. CONDUCTORS FOR REMOVED DEVICES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUITS MAY BE ABANDONED IN PLACE. ENDS OF THE EXISTING CONDUITS SHALL BE REMOVED TO 30 INCHES BELOW GRADE AND CAPPED.
4. KY B.U.D: BEFORE YOU DIG PHONE 1-800-752-6007. THE UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE FROM SITE SURVEYS, RECORD DRAWINGS AND FROM VISUAL SITE INSPECTIONS. UTILITY LOCATIONS ARE APPROXIMATE AND THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE AREA. CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY EXCAVATION.
5. IF ANY CHARTED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER/ARCHITECT.
6. COORDINATE ALL ELECTRICAL SITE WORK (DEMOLITION AND NEW INSTALLATIONS) WITH THE NEW SITE GRADING.
7. UNDERGROUND CONDUITS SHALL BE BURIED A MINIMUM OF 30-INCHES BELOW GRADE UNLESS OTHERWISE NOTED.

LIGHTING

1. THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER OF CONDUCTORS BETWEEN SWITCHES, LIGHT FIXTURES AND ASSOCIATED DEVICES FOR A COMPLETE AND WORKING SYSTEM. PROVIDE SINGLE-LEVEL OR DUAL-LEVEL SWITCHING, THREE-WAY SWITCHING OR OTHER SWITCHING METHOD AS INDICATED ON THE DRAWINGS.
2. INSTALL AN UNSWITCHED CONDUCTOR TO ALL EXIT LIGHTS, EMERGENCY LIGHTS AND ALL OTHER FIXTURES USED FOR EMERGENCY ILLUMINATION AND SUPPLIED WITH INTEGRAL OR EXTERNAL BATTERIES. INSTALL A NORMAL UNSWITCHED CONDUCTOR TO ALL EMERGENCY RELAYS WHEN EMERGENCY POWER IS PROVIDED BY A GENERATOR OR MEANS OTHER THAN BATTERY POWER. THE UNSWITCHED CONDUCTOR SHALL BE FED FROM THE SAME CIRCUIT AS THE SWITCHED CONDUCTOR(S).
3. CABLING ASSOCIATED WITH THE LOW VOLTAGE LIGHTING CONTROLS, INCLUDING DIMMING, NETWORK AND CONTROL CABLES, SHALL BE INSTALLED AND SUPPORTED IN A SIMILAR MANNER AS THE TELECOMMUNICATIONS CABLING. CABLING SHALL BE INSTALLED IN CONDUIT WHEN LOCATED IN AREAS WITH EXPOSED CEILINGS OR STRUCTURES, ABOVE INACCESSIBLE CEILINGS AND WHERE LOCATED WITHIN WALLS. CABLING INSTALLED ABOVE ACCESSIBLE, CONCEALED CEILINGS SHALL BE INSTALLED IN CONDUIT OR SHALL BE SUPPORTED BY J-HOOKS. THE CABLING SHALL BE INSTALLED SEPARATE FROM LINE VOLTAGE CONDUCTORS AND TELECOMMUNICATIONS CABLING. J-HOOKS MAY BE ATTACHED TO THE OUTSIDE OF THE TELECOMMUNICATIONS CABLE TRAY, IF AVAILABLE, PROVIDING THE MAXIMUM RATED WEIGHT CAPACITY OF THE CABLE TRAY IS NOT EXCEEDED.

SYSTEMS

1. ALL FIRE ALARM CABLING SHALL BE INSTALLED WITHIN A MINIMUM OF 3/4 INCH CONDUIT.
2. ALL ELECTRICALLY CONDUCTIVE CABLES THAT ARE CONNECTED TO EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH A SURGE PROTECTIVE DEVICE. INCLUDING, BUT NOT LIMITED TO, FIRE ALARM CABLES FOR TAMPER AND FLOW SWITCHES, SECURITY CAMERAS AND INTERCOM SPEAKERS.
3. INSTALL A DEDICATED 4-PAIR CATEGORY 6 TELEPHONE CABLE FROM THE TELEPHONE DEMARCATION TO THE FIRE ALARM COMMUNICATOR/TRANSMITTER. CONNECT CABLE AHEAD OF ANY TELEPHONE SYSTEM AS REQUIRED FOR THE COMMUNICATOR/TRANSMITTER TO CAPTURE TWO TELEPHONE LINES.

SURFACE RACEWAY

1. ALL SURFACE RACEWAYS SHALL BE WIREMOLD V700, AND V2400 SERIES OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
2. V700 SERIES SHALL BE USED FOR RECEPTACLES, SWITCHES AND FIRE ALARM DEVICES. V2400 SERIES SHALL BE INSTALLED FOR VOICE AND DATA CABLING.
3. ALL SURFACE RACEWAY IS TO BE MOUNTED ON EXISTING WALLS ONLY. USE SUPPORTING CLIPS AND NOT MOUNTING STRAPS. THE CONTRACTOR HAS THE OPTION TO FISH FLEXIBLE CONDUIT DOWN EXISTING WALLS IN LIEU OF USING SURFACE RACEWAY.
4. COORDINATE THE ROUTING OF ALL RACEWAY WITH WALL MOUNTED FURNISHINGS (I.E. TACKBOARDS, MARKERBOARDS, INTERACTIVE WHITEBOARDS, ETC.).
5. ARCHITECT TO SELECT SURFACE RACEWAY FINISH FROM MANUFACTURER'S FULL LINE.

CABLING

1. ALL EXPOSED LOW VOLTAGE CABLING SHALL BE PLENUM RATED.

KITCHEN

1. ELECTRICAL CONTRACTOR IS TO MAKE ALL KITCHEN HOOD ELECTRICAL CONNECTIONS BETWEEN THE KITCHEN HOOD AND ASSOCIATED ROOF-TOP MECHANICAL UNITS. COORDINATE ALL REQUIREMENTS AND CONNECTION LOCATIONS WITH THE MECHANICAL CONTRACTOR.
2. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONNECTIONS BETWEEN THE KITCHEN HOOD CONTROL PANEL AND THE FIRE ALARM SYSTEM, KITCHEN HOOD MAKE-UP AIR UNIT SUPPLY FAN MOTOR(S) AND THE SHUNT-TRIP BREAKERS SERVING WITH THE KITCHEN EQUIPMENT. IN THE EVENT THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED, THE FIRE ALARM SYSTEM SHALL ACTIVATE, THE SHUNT-TRIP BREAKERS SHALL TRIP AND THE SUPPLY FAN MOTOR(S) SHALL SHUT-OFF.
3. WHERE RECEPTACLES ARE LOCATED IN THE KITCHEN. ALL 120 VOLT AND 208 VOLT SINGLE PHASE RECEPTACLES RATED 50 AMPS OR LESS AND ALL 208 VOLT THREE-PHASE RECEPTACLES RATED 100 AMPS OR LESS SHALL BE GFCI PROTECTED.
4. INSTALL AN APPROPRIATE SEALING CONDUIT FITTING AT EACH LOCATION CONDUIT ENTERS THE WALK-IN COOLER/FREEZER. SEAL WITH AN APPROVED SEALING COMPOUND.
5. KITCHEN EQUIPMENT ELECTRICAL LAYOUT AND POWER REQUIREMENTS ARE SHOWN FOR BID PURPOSES ONLY. COORDINATE ALL KITCHEN EQUIPMENT ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH THE REVIEWED KITCHEN SHOP DRAWINGS AND THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION OF ANY CIRCUITS SERVING THE KITCHEN EQUIPMENT.

ELEVATOR

ELECTRICAL REQUIREMENTS FOR ELEVATOR INSTALLATIONS:

MACHINE ROOM:

1. A TELEPHONE (VOICE) LINE MUST BE RUN IN CONDUIT FROM BUILDING TELEPHONE DEMARC TO A TELEPHONE OUTLET IN THE ELEVATOR MACHINE ROOM, AND TERMINATED, FOR CONNECTION TO THE ELEVATOR CONTROLLER.
2. THE MACHINE ROOM RECEPTACLE MUST BE GFI TYPE. THE MACHINE ROOM LIGHT, LIGHT SWITCH AND RECEPTACLE MUST BE ON ONE DEDICATED 120V CIRCUIT. IF 277V LIGHTING IS USED, THE ELEVATOR MACHINE ROOM LIGHT(S) MUST BE ON ITS OWN DEDICATED CIRCUIT. A MINIMUM OF 50fc IS REQUIRED. NO ADDITIONAL DEVICES MAY BE CONNECTED TO THESE CIRCUITS.
3. IF SPRINKLERS ARE INSTALLED IN THE MACHINE ROOM, THEN A SHUNT-TRIP DEVICE MUST BE PROVIDED AND INSTALLED ON THE MAIN ELEVATOR POWER CIRCUIT. THIS SHUNT-TRIP DEVICE MUST REMOVE MAIN LINE VOLTAGE FROM THE ELEVATOR BEFORE WATER IS APPLIED BY THE SPRINKLER SYSTEM. ONE FIXED-TEMPERATURE 135 DEGREE HEAT DETECTOR, WITH AUXILIARY CONTACTS, SHALL BE INSTALLED WITHIN 18" OF EACH SPRINKLER HEAD LOCATED IN THE MACHINE ROOM. EACH HEAT DETECTOR SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND SHALL ALSO BE CONNECTED TO THE SHUNT-TRIP DEVICE FOR THE MAIN ELEVATOR POWER CIRCUIT, TO REMOVE MAIN LINE POWER FROM THE ELEVATOR WHEN THE HEAT DETECTOR GOES INTO ALARM.
4. PROVIDE A 120V CONNECTION BETWEEN THE MAIN-LINE ELEVATOR DISCONNECT IN THE MACHINE ROOM AND THE EMERGENCY BATTERY LOWERING DEVICE AT THE ELEVATOR CONTROLLER. THIS IS TO BE ACCOMPLISHED VIA AUXILIARY CONTACTS INSTALLED IN THE MAIN-LINE DISCONNECT AS PER NEC 620. WIRE IN THE SAME OPEN/CLOSED STATE AS THE MAIN POWER CIRCUIT TO THE ELEVATOR, AND WIRE TO THE CONTROLLER.
5. PROVIDE A 120V MONITOR CIRCUIT (POWER TO OPERATE THE SHUNT-TRIP BREAKER) WHICH WILL MONITOR FOR PRESENCE OF OPERATING VOLTAGE AND WILL TIE INTO THE FIRE ALARM SYSTEM VIA RELAY AUXILIARY CONTACTS, SO THAT IT SENDS A SUPERVISORY SIGNAL TO THE FIRE ALARM PANEL. ALSO, FOR THE EMERGENCY BATTERY LOWERING FUNCTION, PROVIDE AUXILIARY CONTACTS FOR THE SHUNT-TRIP DEVICE, THAT WILL BE WIRED IN SERIES WITH THE POWER CIRCUIT, AND GO INTO THE ELEVATOR CONTROLLER.
6. NO CONDUIT OR WIRING NOT RELATED TO THE ELEVATOR IS ALLOWED IN THE MACHINE ROOM OR ABOVE THE MACHINE ROOM FIRE RATED CEILING.

ELEVATOR PIT:

1. IN THE PIT, INSTALL ONE LIGHT FIXTURE ON EACH OF THE TWO SIDE SHAFT WALLS (TWO FIXTURES TOTAL). SEE PLANS FOR FIXTURE TYPES. ALSO INSTALL ONE GFI DUPLEX RECEPTACLE, AND ONE NON-GFI SIMPLEX RECEPTACLE. ALL OF THESE DEVICES SHALL BE CONNECTED TO ONE DEDICATED CIRCUIT, WITH NO OTHER DEVICES CONNECTED TO THE CIRCUIT. THE LIGHTS AND SIMPLEX RECEPTACLE MUST REMAIN ACTIVE IF THE GFI RECEPTACLE TRIPS.
2. ALL ELECTRICAL BOXES, INCLUDING LOW-VOLTAGE DEVICES, LOCATED IN THE PIT BELOW 48" ABOVE THE LEVEL OF THE PIT FLOOR MUST BE NEMA 4 (WATERTIGHT). MOUNT THE LIGHT SWITCH ABOVE 48" ON THE SIDE WALL NEAREST THE PIT LADDER AND AS CLOSE AS POSSIBLE TO THE PIT STOP SWITCH. THE SWITCH MUST BE REACHABLE FROM OUTSIDE THE PIT. MOUNT THE GFI RECEPTACLE ON A SIDE WALL ABOVE THE 48" LEVEL IN A NORMAL, NON-NEMA 4 BOX. RUN ONE PIECE OF SEAL-TITE FLEX (NOT TO EXCEED 6' IN LENGTH) DOWN FROM A STANDARD ELECTRICAL BOX TO EACH NEMA 4 LIGHT FIXTURE MOUNTED APPROXIMATELY AT THE LEVEL OF THE ELEVATOR SPRINGS. MOUNT THE SIMPLEX RECEPTACLE AS CLOSE AS POSSIBLE TO THE SUMP PUMP ON THE SIDE WALL ABOVE THE 48" LEVEL AND PULL THE SUMP CORD UP TO THE OUTLET.
3. DO NOT RUN ANY ELECTRICAL CONDUITS BEHIND THE LOWER PORTION OF THE PIT LADDER NOR IN THE TRAVELING CABLE SPACE.
4. NEITHER SMOKE NOR HEAT DETECTORS SHALL BE INSTALLED IN THE ELEVATOR PIT.

TOP OF ELEVATOR SHAFT:

1. NEITHER SMOKE NOR HEAT DETECTORS SHALL BE INSTALLED IN THE ELEVATOR SHAFT.

SMOKE DETECTORS IN THE MACHINE ROOM AND ELEVATOR LOBBIES:

1. ONE SMOKE DETECTOR MUST BE INSTALLED OUTSIDE OF THE ELEVATOR DOOR AT EVERY EXIT FROM THE ELEVATOR, AND ONE SMOKE DETECTOR MUST BE INSTALLED IN THE ELEVATOR MACHINE ROOM. THE SMOKE DETECTORS MUST BE CONFIGURED INTO THREE ZONES (NORMALLY OPEN DRY CONTACTS THAT CLOSE UPON ALARM). A PAIR OF WIRES FOR EACH ZONE (SIX WIRES) MUST BE RUN IN CONDUIT TO THE ELEVATOR CONTROLLER IN THE ELEVATOR MACHINE ROOM. THE FIRST ZONE INCLUDES ALL ELEVATOR RELATED SMOKE DETECTORS LOCATED ABOVE OR BELOW THE MAIN EGRESS FLOOR (PER THE ELEVATOR CONTRACTOR). THE SECOND ZONE INCLUDES ALL ELEVATOR RELATED SMOKE DETECTORS LOCATED ON THE MAIN EGRESS FLOOR. THE THIRD ZONE INCLUDES SMOKE DETECTORS LOCATED IN THE ELEVATOR MACHINE ROOM. NOTE THAT THE SMOKE DETECTORS IN THE MACHINE ROOM ARE INCLUDED IN TWO ZONES. THREE ADDRESSABLE RELAYS MAY BE LOCATED WITHIN THE ELEVATOR MACHINE ROOM (WITHIN 3' OF THE ELEVATOR CONTROLLER) AND PIPED TO THE ELEVATOR CONTROLLER.

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12/12/19

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

ELECTRICAL GENERAL NOTES

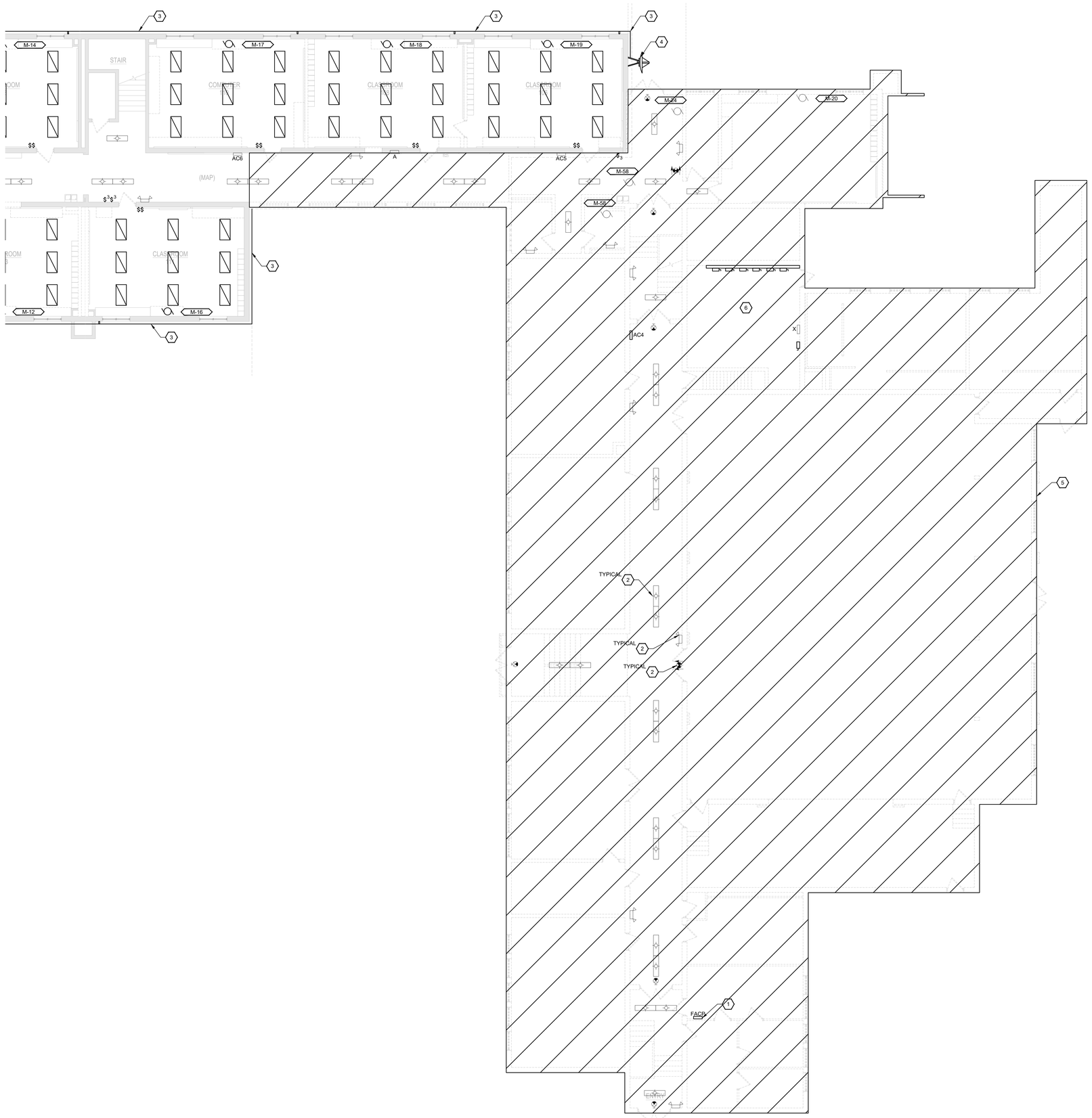
JOB NO.	1759
DATE	12/16/19
DRAWN	JE
CHECKED	WC

REVISIONS

No.	Description	Date

SHEET

E0.2



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

0 4' 8' 16'

GENERAL NOTES:

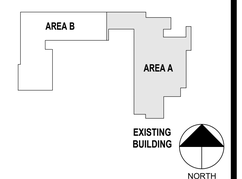
1. REFER TO GENERAL NOTES ON SHEET E0.2.

SHEET KEYNOTES:

1. EXISTING FIRE ALARM CONTROL PANEL TO BE DISCONNECTED AND REMOVED PRIOR TO DEMOLITION. REFER TO NEW WORK SYSTEMS PLANS FOR NEW WORK ASSOCIATED WITH THIS EXISTING CONTROL PANEL.
2. EXISTING LINEAR PENDANT MOUNT LIGHT FIXTURES IN CORRIDORS AND STAIRWELLS, EXIT SIGNS, AND EMERGENCY LIGHTS TO BE REMOVED AND TURNED OVER TO OWNER PRIOR TO BEGINNING GENERAL DEMOLITION OF THIS AREA, TYPICAL.
3. EXISTING SURFACE MOUNTED CONDUIT AND CABLING ON EXISTING BUILDING EXTERIOR FOR ANTENNA TV SYSTEM TO BE DEMOLISHED.
4. EXISTING ANTENNA, ANTENNA TV SYSTEM EQUIPMENT, AND CABLING TO BE DEMOLISHED.
5. THIS AREA OF EXISTING BUILDING TO BE COMPLETELY DEMOLISHED. REFER TO OTHER NOTES IN THIS AREA FOR SELECTIVE DEMOLITION.
6. DISCONNECT CONDUCTORS AT BOTH ENDS FOR ALL EQUIPMENT FED FROM DISCONNECTS IN THIS SPACE PRIOR TO DEMOLITION. DEMOLISH CONDUIT AND CONDUCTORS FROM SOURCE TO EQUIPMENT SERVED. TYPICAL.

KEY PLAN

NOT TO SCALE



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TAYLORSVILLE, KENTUCKY

FIRST FLOOR DEMOLITION PLAN - AREA A - ELECTRICAL

JOB NO.	1759
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CHECKED	

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No.	Description	Date

SHEET

ED1.1

1 FIRST FLOOR DEMOLITION PLAN AREA B - ELECTRICAL

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

GENERAL NOTES:

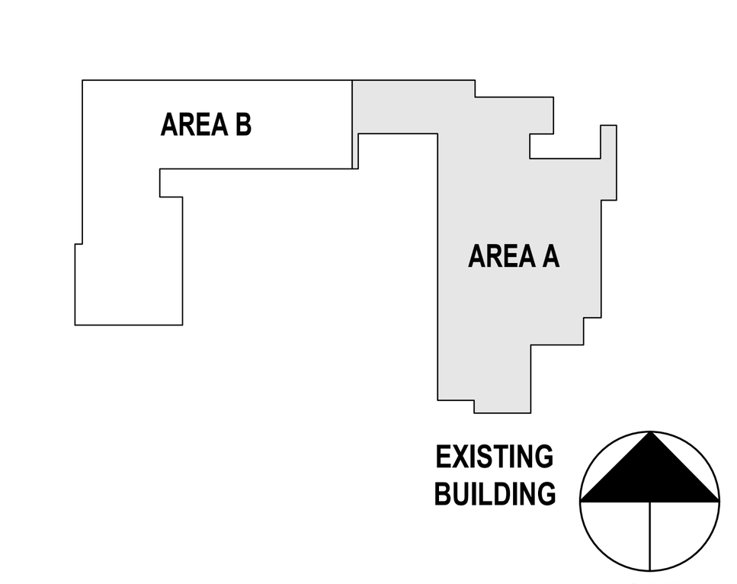
1. REFER TO GENERAL NOTES ON SHEET E0.2.

SHEET KEYNOTES:

1. EXISTING LINEAR PENDANT MOUNT LIGHT FIXTURES IN CORRIDORS AND STAIRWELLS, EXIT SIGNS, AND EMERGENCY LIGHTS TO BE REMOVED AND TURNED OVER TO OWNER PRIOR TO BEGINNING GENERAL DEMOLITION OF THIS AREA. TYPICAL.
2. EXISTING LIGHT FIXTURE TO BE DEMOLISHED. COVER EXISTING JUNCTION BOX WITH BLANK STAINLESS STEEL FACEPLATE.
3. EXISTING CANOPY MOUNT LIGHT FIXTURE ABOVE DOOR TO BE DEMOLISHED. DEMOLISH CIRCUIT AND CONDUIT BACK TO NEAREST INTERIOR JUNCTION BOX.
4. EXISTING SURFACE MOUNTED CONDUIT AND CABLING ON EXISTING BUILDING EXTERIOR FOR ANTENNA TV SYSTEM TO BE DEMOLISHED.
5. ALTERNATE #1 - DEMOLISH ELECTRICAL DEVICES AS INDICATED. UNDER BASE BID NO DEMOLITION TO OCCUR IN THIS AREA. AREA TO REMAIN AS IS.
6. FIRE ALARM NOTIFICATION DEVICES IN THIS AREA STILL BE BE DEMOLISHED UNDER BASE BID.

KEY PLAN

NOT TO SCALE



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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

FIRST FLOOR DEMOLITION PLAN - AREA B - ELECTRICAL

JOB NO.	1759
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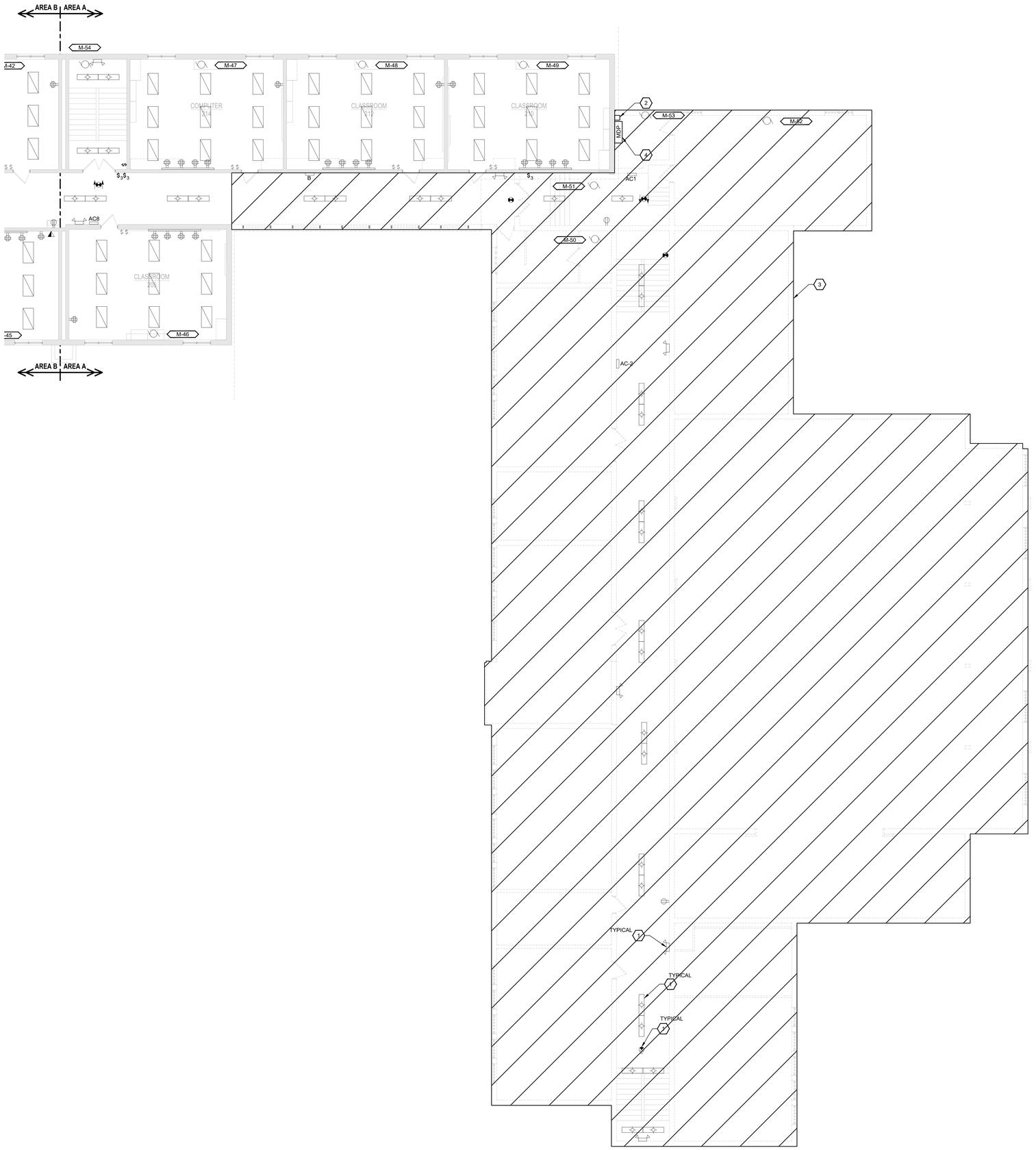
REVISIONS

No.	Description	Date

SHEET

ED1.2



1 SECOND FLOOR DEMOLITION PLAN AREA A - ELECTRICAL

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

0 4' 8' 16'

GENERAL NOTES:

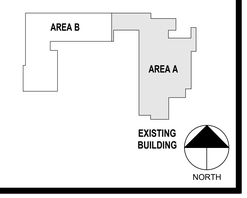
1. REFER TO GENERAL NOTES ON SHEET E0.2.

SHEET KEYNOTES:

1. EXISTING LINEAR PENDANT MOUNT LIGHT FIXTURES IN CORRIDORS AND STAIRWELLS, EXIT SIGNS, AND EMERGENCY LIGHTS TO BE REMOVED AND TURNED OVER TO OWNER PRIOR TO BEGINNING GENERAL DEMOLITION OF THIS AREA. TYPICAL.
2. EXISTING SURFACE MOUNTED CABINET FOR ANTENNA TV SYSTEM. DEMOLISH CABINET, COMPONENTS, AND CABLING. ANTENNA TELEVISION DISTRIBUTION CABLING ORIGINATING AT THIS LOCATION TO BE PULLED BACK AND DEMOLISHED.
3. THIS AREA OF EXISTING BUILDING TO BE COMPLETELY DEMOLISHED. REFER TO OTHER NOTES IN THIS AREA FOR SELECTIVE DEMOLITION.
4. DISCONNECT CONDUCTORS AT BOTH ENDS FOR ALL EQUIPMENT FED FROM MSB PRIOR TO DEMOLITION. DEMOLISH CONDUIT AND CONDUCTORS FROM SOURCE TO EQUIPMENT SERVED. TYPICAL.

KEY PLAN

NOT TO SCALE



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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SECOND FLOOR DEMOLITION PLAN - AREA A - ELECTRICAL

JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

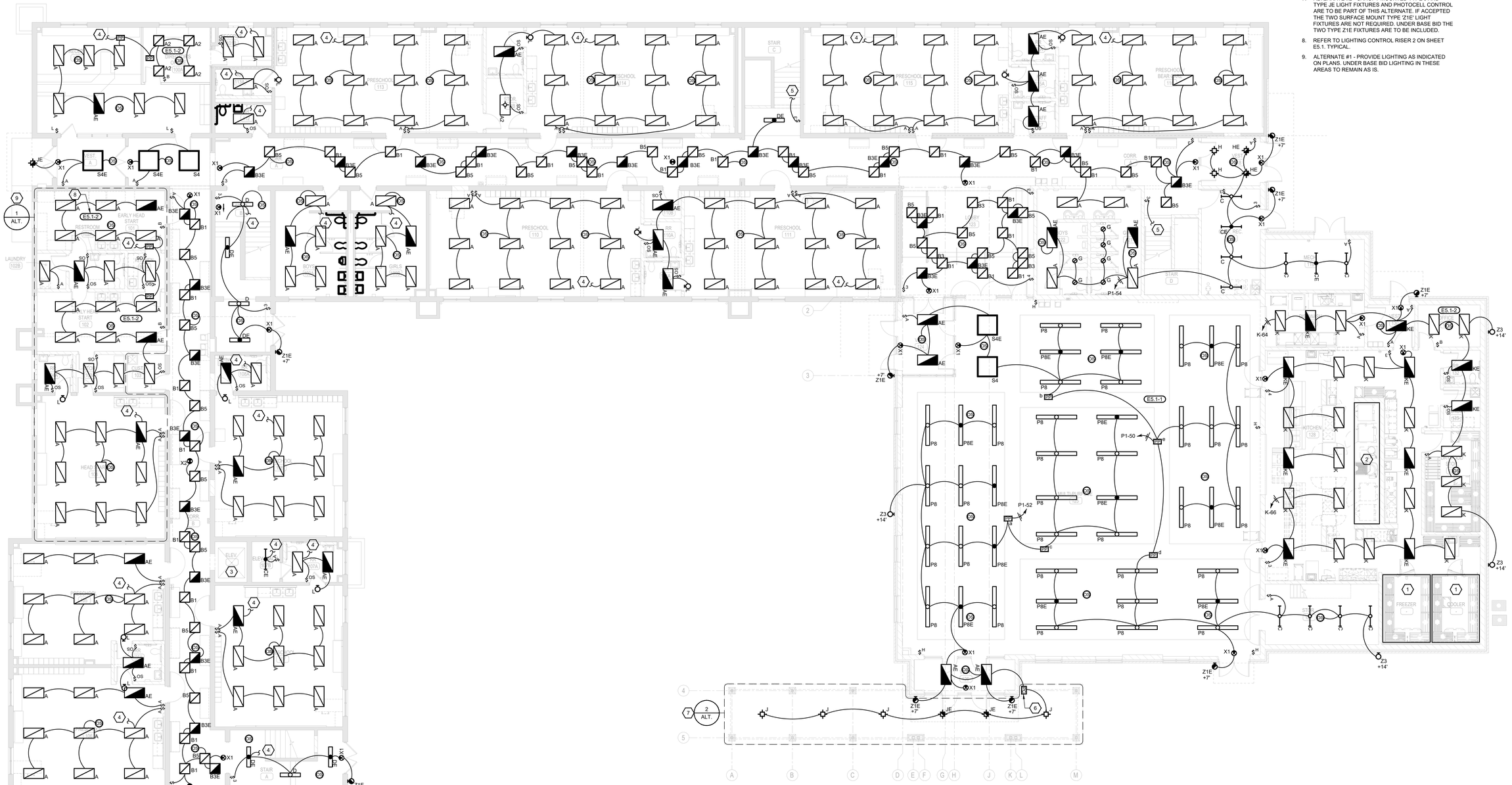
ED1.3

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.2.

⬡ SHEET KEYNOTES:

1. WALK-IN FREEZER/COOLER. ALL LIGHTS PROVIDED WITH EQUIPMENT.
2. KITCHEN HOOD. ALL LIGHTS UNDER KITCHEN HOOD PROVIDED WITH EQUIPMENT.
3. EXISTING ELEVATOR PIT, CAB, SHAFT LIGHTING TO REMAIN AS IS.
4. CONNECT TO EXISTING LIGHTING CIRCUIT IN SPACE
5. TO STAIRWELL LIGHT FIXTURE ON LEVEL ABOVE.
6. CANOPY LIGHT FIXTURES TO BE ROUTED THROUGH A 120V PHOTOCELL.
7. ALTERNATE #2 - CANOPY MOUNTED TYPE J AND TYPE JE LIGHT FIXTURES AND PHOTOCELL CONTROL ARE TO BE PART OF THIS ALTERNATE. IF ACCEPTED THE TWO SURFACE MOUNT TYPE 'Z1E' LIGHT FIXTURES ARE NOT REQUIRED. UNDER BASE BID THE TWO TYPE Z1E FIXTURES ARE TO BE INCLUDED.
8. REFER TO LIGHTING CONTROL RISER 2 ON SHEET E5.1. TYPICAL.
9. ALTERNATE #1 - PROVIDE LIGHTING AS INDICATED ON PLANS. UNDER BASE BID LIGHTING IN THESE AREAS TO REMAIN AS IS.



1 FIRST FLOOR NEW WORK PLAN - LIGHTING

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

0 4' 8' 16'

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FIRST FLOOR NEW WORK PLAN - LIGHTING

JOB NO.	1759
DATE	12/16/19
DRAWN	
CHECKED	

REVISIONS

No.	Description	Date

SHEET

E1.1

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.2.

⬡ SHEET KEYNOTES:

1. EXISTING LIGHTING TO REMAIN AS IS FOR THIS AREA.
2. TO STAIRWELL LIGHT SWITCH ON LEVEL BELOW.
3. LIGHTING IN THIS AREA TO REMAIN AS IS FOR SECOND LEVEL UNLESS OTHERWISE NOTED. MAINTAIN ALL EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS, FIXTURES, AND SWITCHES/CONTROLS.
4. PROVIDE ADDITIONAL LIGHT SWITCH FOR CORRIDOR LIGHTING CIRCUIT DUE TO NEW DOOR BEING ADDED. REWORK EXISTING CIRCUIT AS NECESSARY.

1 SECOND FLOOR NEW WORK PLAN - LIGHTING

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

0 4' 8' 16'

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TAYLORSVILLE, KENTUCKY

SECOND FLOOR NEW WORK PLAN - LIGHTING

JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

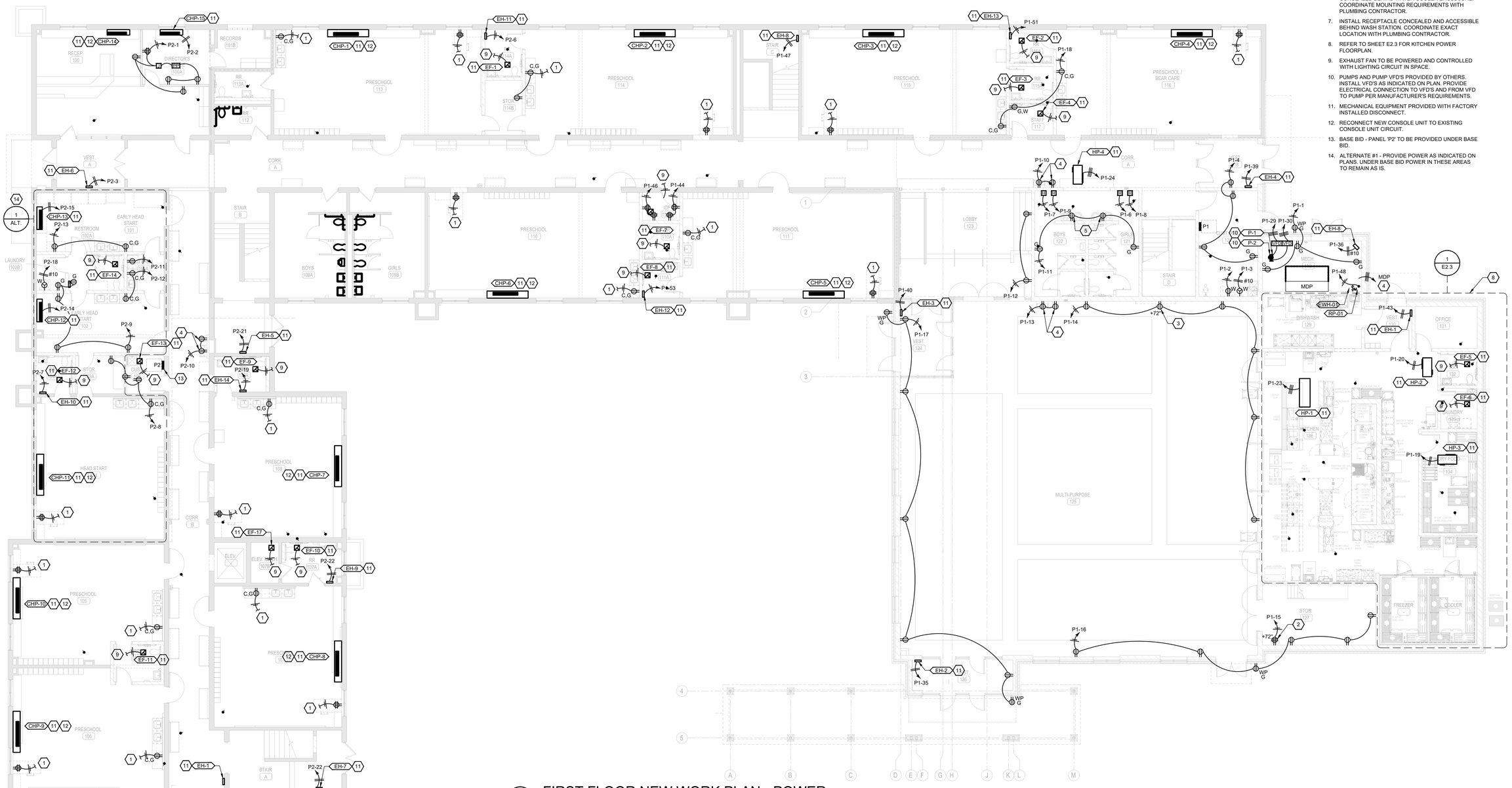
E1.2

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.2.

SHEET KEYNOTES:

1. CONNECT TO EXISTING GENERAL RECEPTACLE CIRCUIT IN SPACE.
2. RECEPTACLE FOR MULTI-PURPOSE ROOM MEDIA CABINET.
3. PROVIDE CONNECTION ENCLOSURE BEHIND OWNER PROVIDED DISPLAY FOR POWER (ONE DUPLEX RECEPTACLE), DATA (2 DATA), AND AV CABLING. CONNECTION ENCLOSURE TO BE MANUFACTURED BY HUBBELL, NETSELECT FFPTV MODEL #NSAV62M, OR EQUAL. PROVIDE A 3/4" CONDUIT FOR POWER AND A 1-1/4" CONDUIT FOR DATA/AV. DATA/AV CONDUIT SHALL PROVIDE PATHWAY FROM ENCLOSURE BEHIND DISPLAY TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION WITH DISPLAY MOUNTING BRACKET PRIOR TO ROUGH-IN. ENCLOSURE TO BE CONCEALED BEHIND MONITOR.
6. RECEPTACLE FOR WATER COOLER TO BE INSTALLED CONCEALED BEHIND WATER COOLER ENCLOSURE. COORDINATE MOUNTING REQUIREMENTS WITH PLUMBING CONTRACTOR.
7. INSTALL RECEPTACLE CONCEALED AND ACCESSIBLE BEHIND WASH STATION. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
8. REFER TO SHEET E2.3 FOR KITCHEN POWER FLOORPLAN.
9. EXHAUST FAN TO BE POWERED AND CONTROLLED WITH LIGHTING CIRCUIT IN SPACE.
10. PUMPS AND PUMP VFD'S PROVIDED BY OTHERS. INSTALL VFD'S AS INDICATED ON PLAN. PROVIDE ELECTRICAL CONNECTION TO VFD'S AND FROM VFD TO PUMP PER MANUFACTURER'S REQUIREMENTS.
11. MECHANICAL EQUIPMENT PROVIDED WITH FACTORY INSTALLED DISCONNECT.
12. RECONNECT NEW CONSOLE UNIT TO EXISTING CONSOLE UNIT CIRCUIT.
13. BASE BID - PANEL 'P2' TO BE PROVIDED UNDER BASE BID.
14. ALTERNATE #1 - PROVIDE POWER AS INDICATED ON PLANS. UNDER BASE BID POWER IN THESE AREAS TO REMAIN AS IS.



1 FIRST FLOOR NEW WORK PLAN - POWER

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

0 4' 8' 16'

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TAYLORSVILLE, KENTUCKY

FIRST FLOOR NEW WORK PLAN - POWER

JOB NO.	1759
DATE	12/16/19
DRAWN	
CHECKED	

REVISIONS

No.	Description	Date

SHEET

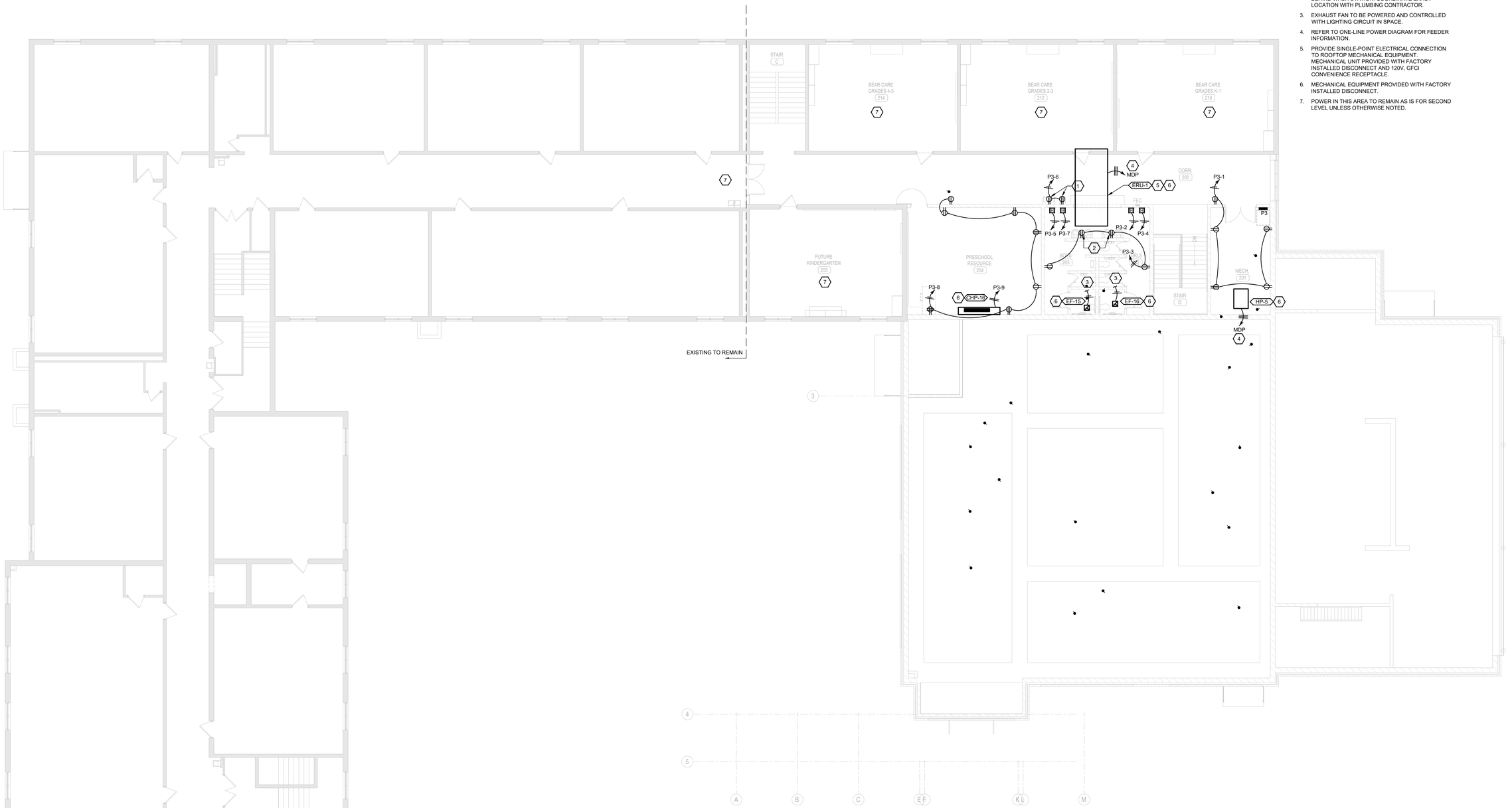
E2.1

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.2.

⬡ SHEET KEYNOTES:

1. RECEPTACLE FOR WATER COOLER TO BE INSTALLED CONCEALED BEHIND WATER COOLER ENCLOSURE. COORDINATE MOUNTING REQUIREMENTS WITH PLUMBING CONTRACTOR.
2. INSTALL RECEPTACLE CONCEALED AND ACCESSIBLE BEHIND WASH STATION. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
3. EXHAUST FAN TO BE POWERED AND CONTROLLED WITH LIGHTING CIRCUIT IN SPACE.
4. REFER TO ONE-LINE POWER DIAGRAM FOR FEEDER INFORMATION.
5. PROVIDE SINGLE-POINT ELECTRICAL CONNECTION TO ROOFTOP MECHANICAL EQUIPMENT. MECHANICAL UNIT PROVIDED WITH FACTORY INSTALLED DISCONNECT AND 120V, GFCI CONVENIENCE RECEPTACLE.
6. MECHANICAL EQUIPMENT PROVIDED WITH FACTORY INSTALLED DISCONNECT.
7. POWER IN THIS AREA TO REMAIN AS IS FOR SECOND LEVEL UNLESS OTHERWISE NOTED.



1 SECOND FLOOR NEW WORK PLAN - POWER
SCALE: 1/8"=1'-0"

0 4' 8' 16'

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TAYLORSVILLE, KENTUCKY

SECOND FLOOR NEW WORK PLAN - POWER

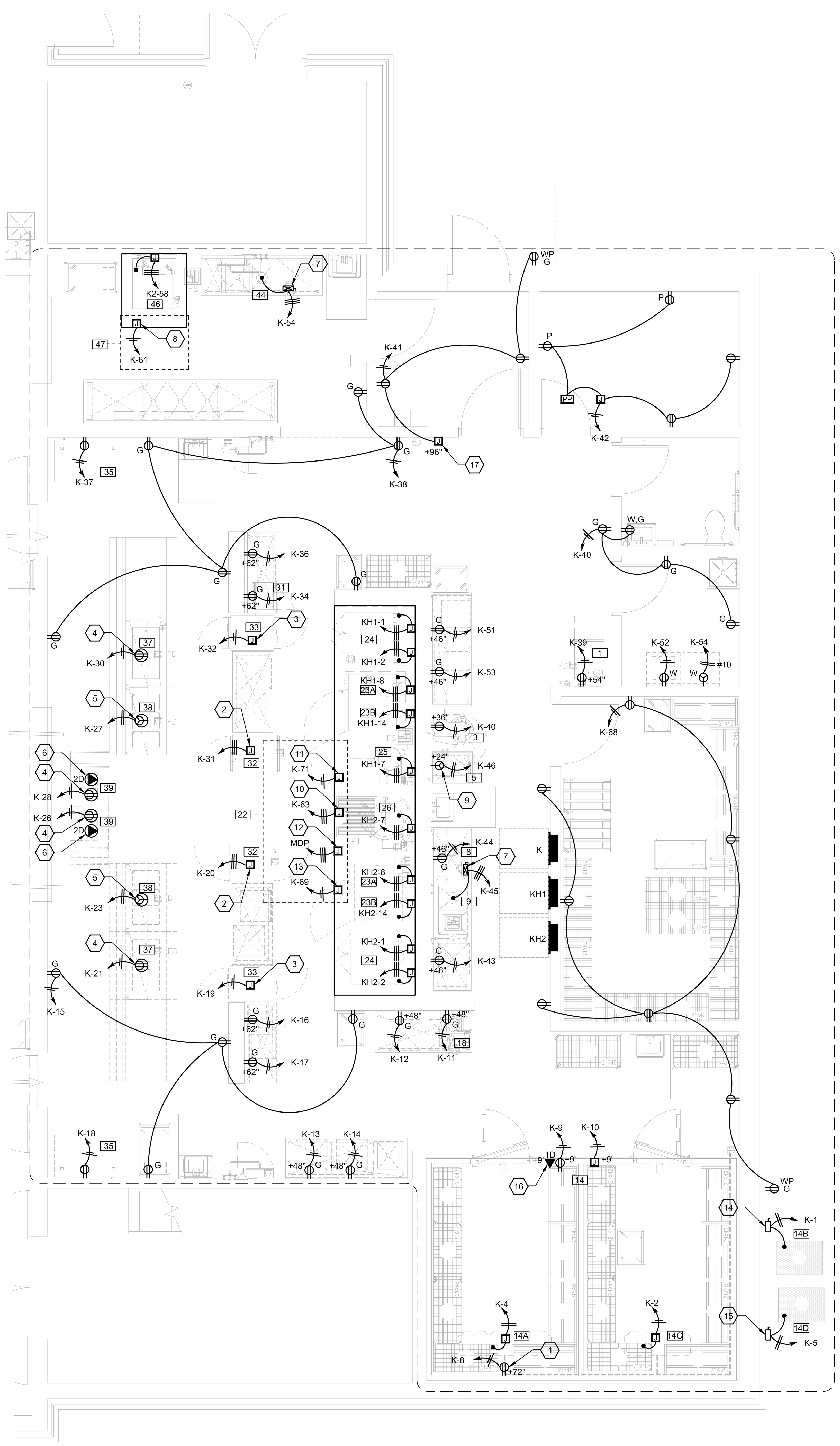
JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

E2.2



1 ENLARGED KITCHEN PLAN - POWER AND SYSTEMS
SCALE: 1/4"=1'-0"

EQUIPMENT SCHEDULE

ITEM NO.	NO. REQ'D	DESCRIPTION	ELECTRICAL KW.	HP	V/PH	AMPS	CONN.	MTG. HT.	KW LOAD'G	CIRCUIT	RESPONSIBILITY FURN. BY	INSTALL BY	CONN. MC	PC	EC	NOTES & COMMENTS
1	1	ICE MACHINE			115/1	9.05	PLUG	54"AFF			K.E.C.	K.E.C.		*	*	(10)
2	1	BAKER'S TABLE W/INGEDIENT BINS									K.E.C.	K.E.C.				(22)
3	1	30 QT MIXER W/ STAND		3/4	120/1	9.5	PLUG	36"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.			*	(10)
4	1	WORK TABLE									K.E.C.	K.E.C.				
5	1	HOT WATER DISPENSER	5		208/1	24.0	PLUG	24"AFF		2#10,1#10G,3/4"C	K.E.C.	K.E.C.		*		
6	5	HAND SINKS									P.C.	P.C.		*		
7	1	PREP SINK									K.E.C.	K.E.C.		*		
8	1	FOOD PROCESSOR		1/3	120/1	3.5	PLUG	46"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				
9	1	DISPOSER		1-1/2	208/3	4.9	DIR	46"AFF		3#12,1#12G,3/4"C	K.E.C.	K.E.C.		*	*	(4)(5)
10		OPEN NUMBER														
11	1 LOT	DUNNAGE RACKS – DRY STORAGE									K.E.C.	K.E.C.				
12	1 LOT	SHELVING – DRY STORAGE									K.E.C.	K.E.C.				
13	2 EA.	MOBILE CAN RACKS									K.E.C.	K.E.C.				
14	1	WALK-IN COOLER/FREEZER EXISTING			120/1 115/1 120/1	20 5 20	DIR PLUG PLUG	9'AFF 9'AFF 72"AFF		(3)2#12,1#12G,3/4"C	O.S.	K.E.C.			*	(1)(2)(3)(19)(20)
14A	1	BLOWER COIL – COOLER EXISTING			115/1	1.8	DIR	86"AFF		2#12,1#12G,3/4"C	O.S.	K.E.C.				(19)(20)
14B	1	CONDENSER – COOLER EXISTING			208/1	10.6	DIR	36" ABOVE GRADE		2#10,1#10G,3/4"C	O.S.	K.E.C.			*	(19)(20)
14C	1	BLOWER COIL – FREEZER EXISTING			208/1	14.35	DIR	86"AFF		2#12,1#12G,3/4"C	O.S.	K.E.C.				(19)(20)
14D	1	CONDENSER – FREEZER EXISTING			208/1	16.4	DIR	36" ABOVE GRADE		2#8,1#10G,3/4"C	O.S.	K.E.C.			*	(19)(20)
15	1 LOT	DUNNAGE RACKS – WALK-IN									K.E.C.	K.E.C.				
16	1 LOT	SHELVING – WALK-IN									K.E.C.	K.E.C.				
17	1	WORK TABLE									K.E.C.	K.E.C.				
18	1	SLICER		1/2	120/1	5.6	PLUG	48"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				
19	5	BUN PAN RACK									K.E.C.	K.E.C.				
20	1	WORK TABLE W/SINK, & OVERSHELF									K.E.C.	K.E.C.		*		
21	4	UTILITY CARTS									K.E.C.	K.E.C.				
22		HOOD SYSTEM			120/1	3.99	DIR	ABV CLNG		2#12,1#12G,3/4"C	K.E.C.	K.E.C.			*	(6)(7)
		HOOD SYSTEM– EXHAUST AIR FAN		3	208/3		DIR	@BUILDING ROOF		3#10,1#10G,3/4"C	K.E.C.	K.E.C.			*	(6)(8)
		HOOD SYSTEM – MAKE UP AIR FAN		3	208/3	20.7	DIR	@BUILDING ROOF		COMBINED W/ ABOVE	K.E.C.	K.E.C.			*	(6)(8)
		HOOD SYSTEM – MAKE UP AIR HEATER	97.5		208/3	156.25	DIR	@BUILDING ROOF		SEE POWER ONE-LINE	K.E.C.	K.E.C.			*	(6)
23A	2	COMBI OVEN – LOWER UNIT (1 FUTURE)	37		208/3	102.7	DIR	24"AFF		(2)3#2,1#6G,1-1/4"C	K.E.C.	K.E.C.		*	*	(14)(21)
23B	2	COMBI OVEN – UPPER UNIT (1 FUTURE)	22.1		208/3	61.4	DIR	36"AFF		(2)3#3,1#8G,1-1/4"C	K.E.C.	K.E.C.		*	*	(14)(21)
24	2	CONVECTION OVEN – DOUBLE STACK (1 FUTURE)	(2)15.15		(2)208/3	54 EA.	DIR	24"/36"AFF		(2)3#6,1#10G,1"C	K.E.C.	K.E.C.			*	(21)
25	1	KETTLE – 12 GAL. TILTING, W/STAND	12.3		208/3	34.1	DIR	24"AFF		3#6,1#10G,1"C	K.E.C.	K.E.C.		*	*	
26	1	KETTLE – 40 GAL. TILTING EXISTING	14.7		208/3	40.9	DIR	24"AFF		3#6,1#10G,1"C	O.S.	K.E.C.		*	*	(19)(20)
27	1	FLOOR TROUGH									K.E.C.	P.C.		*		
28	2	HOSE REEL – 30 FT. (1 FUTURE)									K.E.C.	K.E.C.		*		(21)
29		OPEN NUMBER														
30	2	WORK TABLE W/ OVERSHELF (1 FUTURE)									K.E.C.	K.E.C.				
31	2	MICROWAVE OVEN (1 FUTURE)			120/1	13.0	PLUG	62"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				(21)
32	2	PASS-THROUGH HEAT & HOLD OVEN (1 FUTURE)	12		208/3	50A CIRCUIT	PLUG	PIGTAIL FROM CLNG		3#6,1#10G,1"C	K.E.C.	K.E.C.			*	(11)(12)(21)
33	2	PASS THROUGH REFRIGERATOR (1 FUTURE)		1/3	115/1	9.8	PLUG	PIGTAIL FROM CLNG		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				(12)(21)
34	2	WORK TABLE (1 FUTURE)									K.E.C.	K.E.C.				
35	2	MILK COOLER (1 FUTURE)		1/4	115/1	3	PLUG	18"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				(18)(21)
36	2	SOLID TOP TABLE (1 FUTURE)									K.E.C.	K.E.C.				
37	2	REFRIGERATED COLD FOOD TABLE (1 FUTURE)		1/3	120/1	7.6	PLUG	5"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				(21)
38	2	HOT FOOD TABLE (1 FUTURE)			208/1	14.4	PLUG	5"AFF		2#10,1#10G,3/4"C	K.E.C.	K.E.C.			*	(21)
39	2	CASHIER STATION (1 FUTURE)			120/1	20	PLUG	5"AFF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.				(16)(17)(21)
40	2	POS SYSTEM (1 FUTURE)			120/1	12	PLUG				B.O.	B.O.				(21)
41	2	TRAY CARTS									K.E.C.	K.E.C.				
42		OPEN NUMBER														
43	1	TWO COMPARTMENT WASH SINK									K.E.C.	K.E.C.		*		
44	1	DISPOSER		2	208/3	6	DIR	18"AFF			K.E.C.	K.E.C.		*	*	(13)
45	1	HOSE REEL – 30 FT.									K.E.C.	K.E.C.		*		
46	1	POT, PAN & UTENSIL WASHER			208/3 120/1	47.6 20	DIR	65"AFF 18"AFF		3#6,1#10G,1"C	K.E.C.	K.E.C.		*	*	(9)(14)(15)
47	1	CONDENSATE HOOD		1/2	120/1		DIR	@BUILDING ROOF		2#12,1#12G,3/4"C	K.E.C.	K.E.C.			*	(6)(15)
48	1	THREE COMPARTMENT SINK W/ POTRACK									K.E.C.	K.E.C.		*		

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.02.

⬡ SHEET KEYNOTES:

1. PROVIDE RECEPTACLE ON BACK WALL OF FREEZER 72" AFF FOR CORD PLUG HEAT TRACE FOR FREEZER CONDENSATE DRAIN LINE. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT CONTRACTOR.
2. PROVIDE CEILING MOUNTED JUNCTION BOX WITH SJO CORD DROP TO 6" ABOVE EQUIPMENT BEING SERVED. SJO CORD TO HAVE FEMALE (NEMA 15-50P) PLUG END. PROVIDE STAINLESS STEEL STRAIN RELIEF ON EACH END.
3. PROVIDE CEILING MOUNTED JUNCTION BOX WITH SJO CORD DROP TO 6" ABOVE EQUIPMENT BEING SERVED. SJO CORD TO HAVE FEMALE (NEMA 5-20P) PLUG END. PROVIDE STAINLESS STEEL STRAIN RELIEF ON EACH END.
4. PROVIDE LOW-PROFILE PEDESTAL WITH DUPLEX RECEPTACLE FOR SERVING LINE KITCHEN EQUIPMENT. PEDESTAL HOUSING TO BE AS MANUFACTURED BY RACO MODEL #6300 WITH STAINLESS STEEL FACEPLATE #6313.
5. PROVIDE LOW-PROFILE PEDESTAL WITH NEMA 6-30P RECEPTACLE FOR SERVING LINE KITCHEN EQUIPMENT. PEDESTAL HOUSING TO BE AS MANUFACTURED BY RACO MODEL #6300 WITH STAINLESS STEEL FACEPLATE #6312.
6. NOT USED.
7. DISPOSAL DISCONNECT SWITCH AND CONTROLLER PROVIDED WITH EQUIPMENT. PROVIDE ELECTRICAL CONNECTION TO CONTROLLER AND FROM CONTROLLER TO DISPOSAL PER MANUFACTURERS REQUIREMENTS.
8. PROVIDE ELECTRICAL CONNECTION TO DISHMACHINE CONDENSATE HOOD EXHAUST FAN ON ROOF. EXHAUST FAN PROVIDED WITH FACTORY INSTALLED DISCONNECT. INTERWIRE FAN CONTACTS ON DISHMACHINE THROUGH CONDENSATE EXHAUST FAN CIRCUIT FOR FAN ACTUATION.
9. PROVIDE NEMA 6-30P RECEPTACLE CONFIGURATION.
10. PROVIDE A SINGLE POINT ELECTRICAL CONNECTION TO KITCHEN HOOD EXHAUST AND SUPPLY FAN UNIT ON ROOF. TERMINATE CONNECTION AT MOTOR STARTER PANEL LOCATED ON SIDE OF UNIT. FAN UNIT PROVIDED WITH FACTORY INSTALLED DISCONNECT. EXTEND WIRING FROM MOTOR STARTER PANEL TO EXHAUST FAN CONNECTION POINT IN UNIT. ALSO, PROVIDE INTERCONNECTION FROM ROOFTOP FAN UNIT STARTER PANEL TO KITCHEN HOOD TERMINAL BLOCK ON TOP OF HOOD PER MANUFACTURE'S REQUIREMENTS.
11. PROVIDE ELECTRICAL CONNECTION FOR HOOD LIGHTS AND CONTROL. HOOD LIGHTS AND SWITCHES ARE PRE-WIRED FROM FACTORY. PROVIDE CONNECTION TO JUNCTION BOX ON TOP OF HOOD ASSEMBLY.
12. PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HEATER SECTION IN ROOFTOP FAN UNIT. ELECTRIC HEATER SECTION PROVIDED WITH FACTORY INSTALLED DISCONNECT. REFER TO ONE-LINE POWER DIAGRAM FOR FEEDER INFORMATION.
13. PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HEATER SECTION CONTROLLER IN ROOFTOP UNIT.
14. PROVIDE 30A, 2-POLE, NON-FUSED DISCONNECT SWITCH.
15. PROVIDE 60A, 2-POLE, NON-FUSED DISCONNECT SWITCH.
16. PROVIDE ONE (1) DATA DROP, 9'AFF, AT THE TOP OF WALK-IN COOLER/FREEZER FOR ALARM DIALER.
17. PROVIDE 120V CONNECTION TO KITCHEN DOORBELL.

ⓧ EQUIPMENT NOTES

(1) 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.

(2) 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.

(3) 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.

(4) P.C. TO BRANCH WATER SUPPLY TO THIS ITEM FROM PREP-SINK WATER SUPPLY.

(5) K.E.C. TO INTER-WIRE TO SOLENOID & DISPOSER FROM CONTROL PANEL.

(6) SEE WRITTEN SPECIFICATIONS AND HOOD PLANS FOR SERVICE REQUIREMENTS AND WORK TO BE PROVIDED BY GENERAL, STRUCTURAL, ROOFING, ELECTRICAL, PLUMBING, AND MECHANICAL CONTRACTORS.

(7) 120V 1PH 3.99 AMP ELECTRICAL REQUIREMENTS FOR HOOD LIGHTS.

(8) EXHAUST AND MAKE-UP AIR FANS POWER SUPPLY SHALL BE COMBINED TO A 208V 3PH 20.7A SINGLE POINT CONNECTION LOCATED ON THE SIDE OF THE MAKE-UP AIR UNIT. SEE HOOD PLANS FOR EXACT LOCATION AND DETAILS.

(9) WATER PRESSURE TO BE 35 PSI MINIMUM, 60PSI MAXIMUM.

(10) E.C. TO PROVIDE CORD AND PLUG.

(11) HOLDING UNIT WILL BE SHIPPED WITH CORD, TWIST LOCK MALE AND FEMALE PLUGS. E.C. TO DROP SUPPLY LINE FROM CEILING TO JUST ABOVE HOLDING UNIT AND MOUNT FEMALE TWIST LOCK PLUG.

(12) ON ISLAND UNITS – E.C. TO PIGTAIL DUPLEX RECEPTACLE FROM CEILING TO 6" ABOVE TOP OF EQUIPMENT.

(13) P.C. TO BRANCH WATER SUPPLY FOR THIS ITEM FROM DISH ROOM HOSE REEL.

(14) K.E.C. RESPONSIBLE FOR INSTALLING DRAIN LINE & DRAIN WATER TEMPERING KIT. E.C. RESPONSIBLE FOR COMPLETE WIRING OF DRAIN WATER TEMPERING KIT. P.C. RESPONSIBLE FOR CONNECTING COLD WATER TO DRAIN WATER TEMPERING KIT PER MANUFACTURER INSTRUCTIONS.

(15) E.C. TO PROVIDE CONDUIT FROM ABOVE CEILING TO 68" AFF. FOR CONDENSATE FAN CONTROL WIRING. E.C. TO INTER-WIRE CONDENSATE FAN CONTROL WIRING FROM FAN TO CONTROL PANEL LOCATED ON DISH MACHINE.

(16) P.O.S. TO PLUG INTO OUTLET INCLUDED IN CASHIER STATION.

(17) DEDICATED CIRCUIT REQUIRED AT ELECTRICAL PANEL FOR P.O.S. SYSTEM.

(18) VENDOR PROVIDED ITEM. SPECIFICATIONS ARE THOSE OF EQUIPMENT COMMONLY FURNISHED FOR THIS APPLICATION. ELECTRICAL, PLUMBING, AND MECHANICAL CONTRACTORS TO VERIFY CONNECTION REQUIREMENTS WITH VENDOR.

(19) EXISTING EQUIPMENT – K.E.C. TO RELOCATE AS SHOWN ON KITCHEN EQUIPMENT FLOOR PLAN.

(20) EXISTING EQUIPMENT – K.E.C., E.C., AND P.C. TO VERIFY CONNECTION REQUIREMENTS BEFORE BIDDING.

(21) PROVIDE UTILITY CONNECTIONS SHOWN, ON SCHEDULE, FOR FUTURE ADDITION OF THIS ITEM.

(22) OUTLET BEHIND BAKER'S TABLE MUST BE MOUNTED AT 46"AFF TO TOP OF RECEPTACLE.

EQUIPMENT 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
AG	ABOVE GRADE
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

SHERMAN CARTER BARNHART ARCHITECTS

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION
TAYLORSVILLE, KENTUCKY

ENLARGED KITCHEN PLAN - POWER AND SYSTEMS

JOB NO.	1759
DATE	12/16/19
DRAWN	MM
CHECKED	NM

REVISIONS

No.	Description	Date

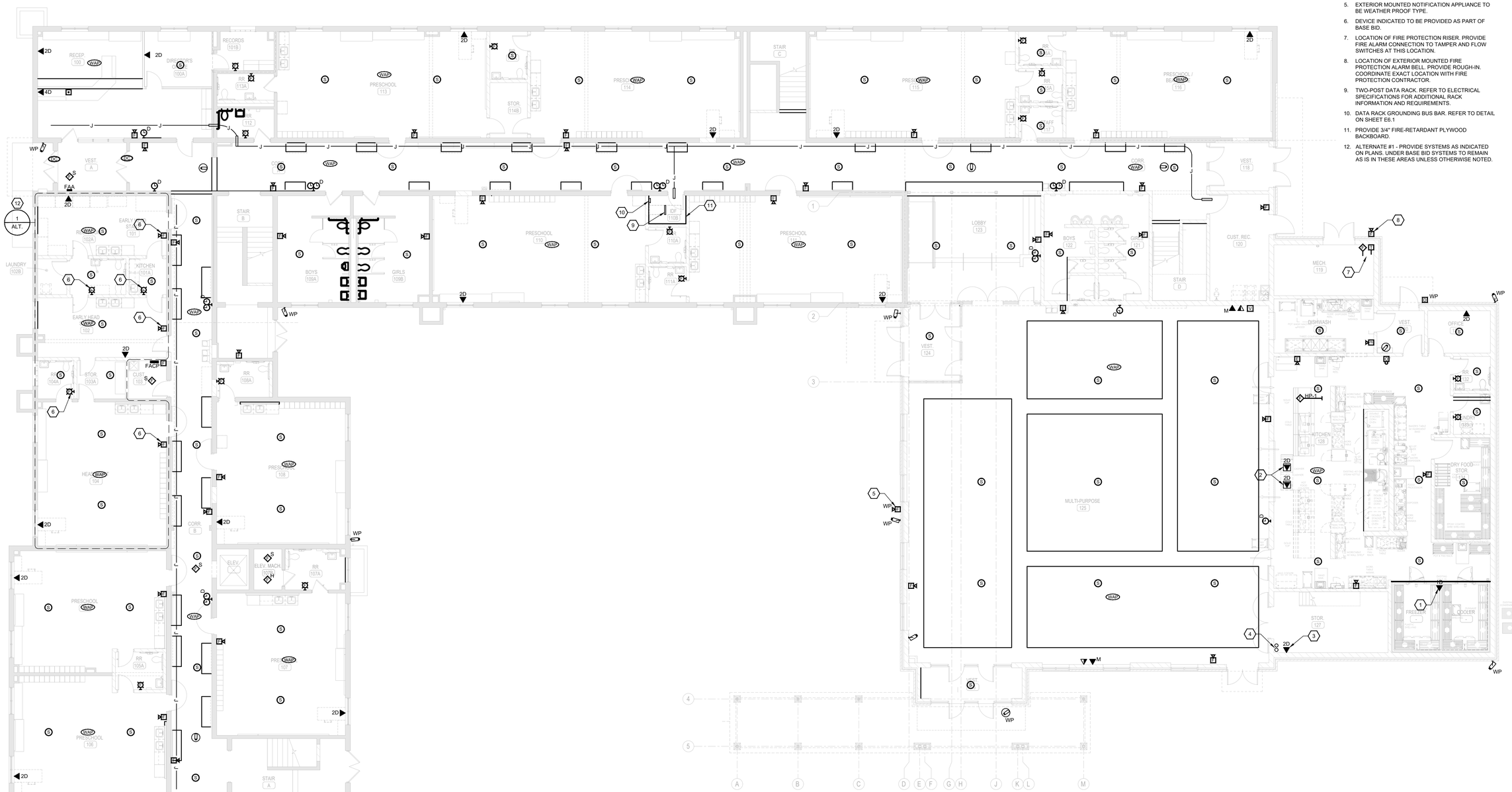
SHEET
E2.3

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.2.

SHEET KEYNOTES:

1. PROVIDE ONE (1) DATA DROP, 9'AFF, AT THE TOP OF WALK-IN COOLER/FREEZER FOR ALARM DIALER.
2. PROVIDE LOW-PROFILE PEDESTAL WITH DATA OUTLET AND (2) DATA DROPS FOR CASHIER STAND. PEDESTAL HOUSING TO BE AS MANUFACTURED BY RACO MODEL #6300.
3. PROVIDE (2) DATA DROPS FOR WALL MOUNTED MULTI-PURPOSE ROOM MEDIA CABINET.
4. PROVIDE (1) 3", SCHEDULE 80 PVC CONDUIT FROM THIS LOCATION TO EXISTING CAFETERIA BUILDING AND (1) 3", SCHEDULE 80 PVC CONDUIT FROM THIS LOCATION TO EXISTING PRE-SCHOOL BUILDING, REFER TO SITE PLAN FOR ROUTING.
5. EXTERIOR MOUNTED NOTIFICATION APPLIANCE TO BE WEATHER PROOF TYPE.
6. DEVICE INDICATED TO BE PROVIDED AS PART OF BASE BID.
7. LOCATION OF FIRE PROTECTION RISER. PROVIDE FIRE ALARM CONNECTION TO TAMPER AND FLOW SWITCHES AT THIS LOCATION.
8. LOCATION OF EXTERIOR MOUNTED FIRE PROTECTION ALARM BELL. PROVIDE ROUGH-IN. COORDINATE EXACT LOCATION WITH FIRE PROTECTION CONTRACTOR.
9. TWO-POST DATA RACK. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL RACK INFORMATION AND REQUIREMENTS.
10. DATA RACK GROUNDING BUS BAR. REFER TO DETAIL ON SHEET E6.1
11. PROVIDE 3/4" FIRE-RETARDANT PLYWOOD BACKBOARD.
12. ALTERNATE #1 - PROVIDE SYSTEMS AS INDICATED ON PLANS. UNDER BASE BID SYSTEMS TO REMAIN AS IS IN THESE AREAS UNLESS OTHERWISE NOTED.



1 FIRST FLOOR NEW WORK PLAN - SYSTEMS

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

0 4' 8' 16'

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TAYLORSVILLE, KENTUCKY

FIRST FLOOR NEW WORK PLAN - SYSTEMS

JOB NO.	1759
DATE	12/16/19
DRAWN	
CHECKED	

REVISIONS

No.	Description	Date

SHEET

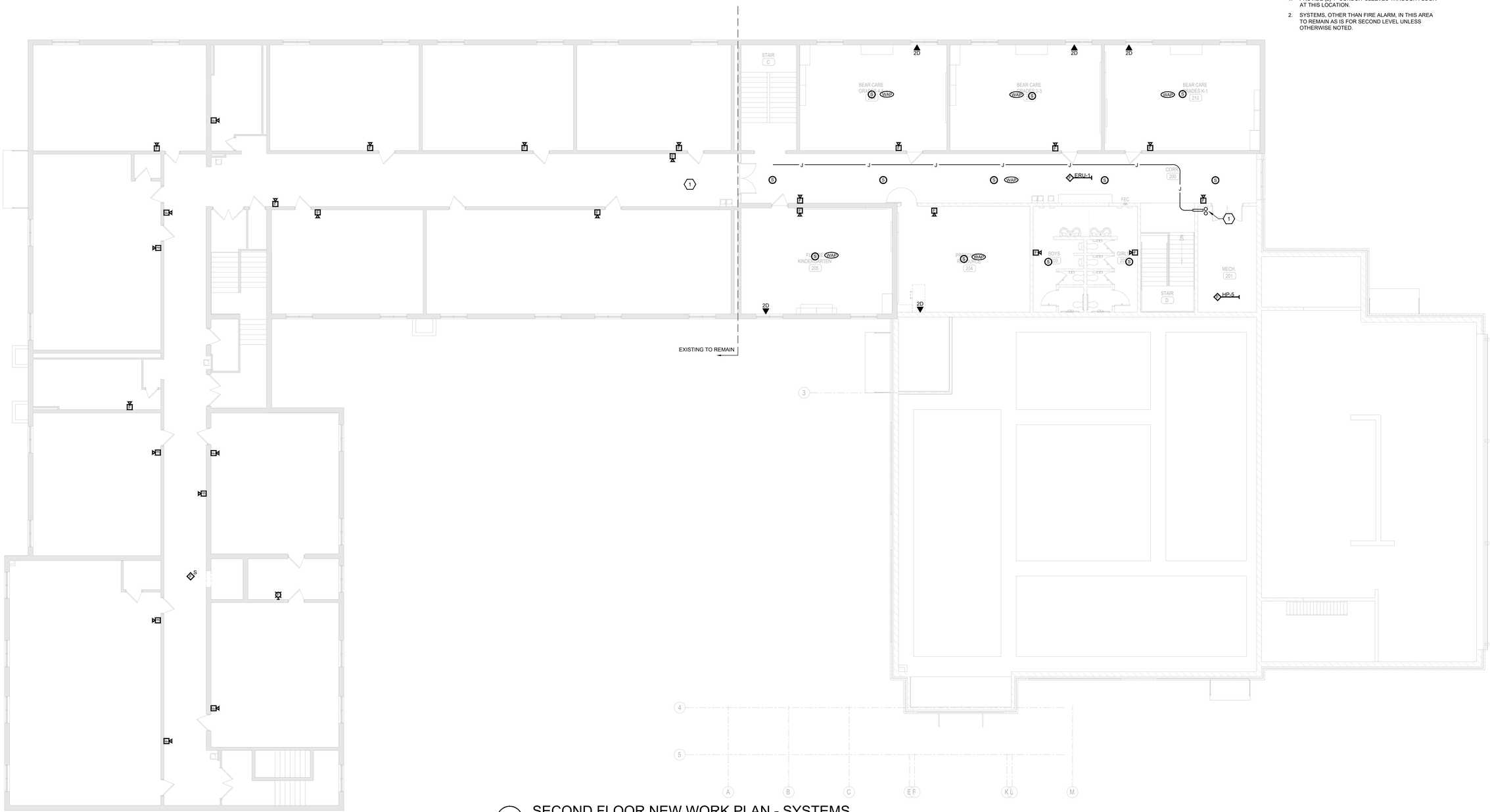
E3.1

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET E0.2.

SHEET KEYNOTES:

1. PROVIDE (2) 4" CONDUIT SLEEVES THROUGH FLOOR AT THIS LOCATION.
2. SYSTEMS, OTHER THAN FIRE ALARM, IN THIS AREA TO REMAIN AS IS FOR SECOND LEVEL UNLESS OTHERWISE NOTED.



1 SECOND FLOOR NEW WORK PLAN - SYSTEMS

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

0 4' 8' 16'

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KENTUCKY LICENSED PROFESSIONAL ENGINEER 12/12/19

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

SECOND FLOOR NEW WORK PLAN - SYSTEMS

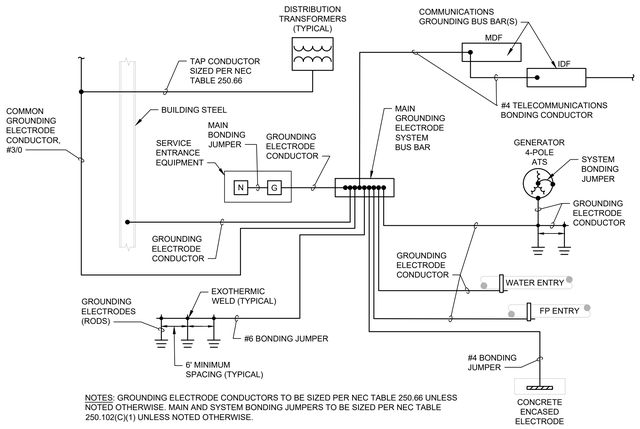
JOB NO.	1759
DATE	12/16/19
DRAWN	XX
CHECKED	XX

REVISIONS

No.	Description	Date

SHEET

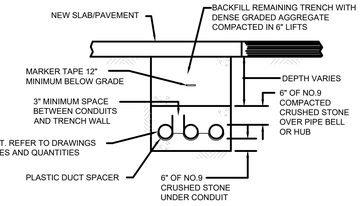
E3.2



NOTES: GROUNDING ELECTRODE CONDUCTORS TO BE SIZED PER NEC TABLE 250.66 UNLESS NOTED OTHERWISE. MAIN AND SYSTEM BONDING JUMPERS TO BE SIZED PER NEC TABLE 250.102(C)(1) UNLESS NOTED OTHERWISE.

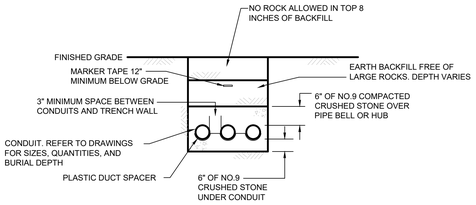
ELECTRICAL SYSTEM GROUNDING DETAIL

NOT TO SCALE



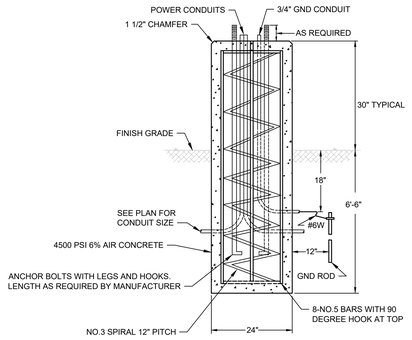
TRENCH DETAIL FOR NEW SLAB/PAVEMENT

NOT TO SCALE



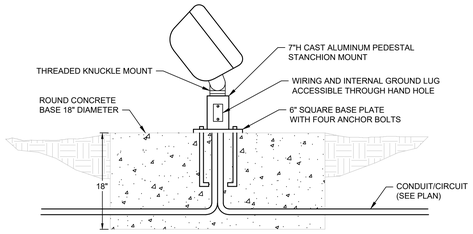
TRENCH DETAIL FOR EARTH COVER

NOT TO SCALE



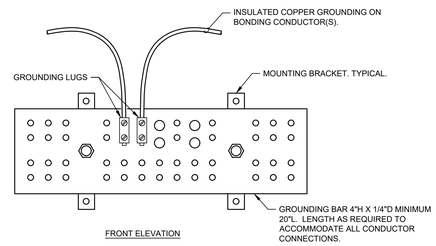
TALL POLE BASE DETAIL

NOT TO SCALE



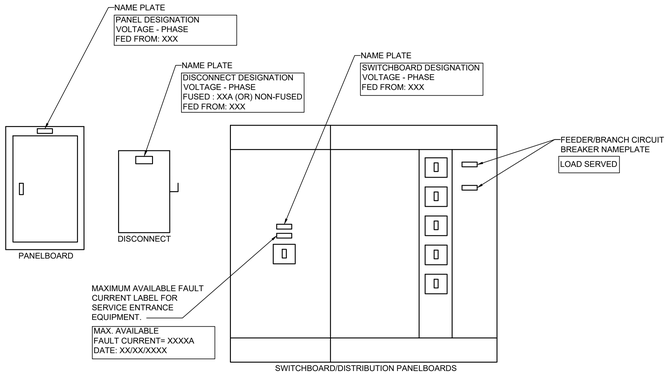
FLOODLIGHT MOUNTING DETAIL

NOT TO SCALE



GROUNDING BUS BAR DETAIL

NOT TO SCALE

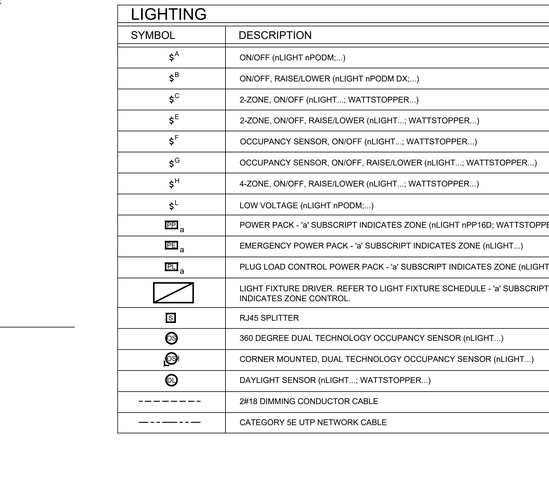


NOTE:

1. THIS DETAIL IS A REPRESENTATION OF THE LABELING REQUIREMENTS FOR ELECTRICAL EQUIPMENT. ALL ELECTRICAL EQUIPMENT, WHETHER IT IS EXPLICIT SHOWN OR NOT, SHALL BE LABELED IN A SIMILAR MANNER.
2. ALL LABELS SHALL BE ENGRAVED LAMINATED ACRYLIC. THE EQUIPMENT DESIGNATION SHALL HAVE A MINIMUM TEXT HEIGHT OF 3/8". THE REMAINING TEXT SHALL HAVE A MINIMUM HEIGHT OF 1/8".
3. LABELS FOR EQUIPMENT CONNECTED TO THE NORMAL POWER SYSTEM SHALL BE BLACK WITH WHITE TEXT. LABELS FOR EQUIPMENT CONNECTED TO THE EMERGENCY POWER SYSTEM SHALL BE RED WITH WHITE TEXT.
4. NAMEPLATES FOR EQUIPMENT LOCATED IN THE INTERIOR OF THE BUILDING SHALL BE ATTACHED WITH 3M SELF-ADHESIVES. EQUIPMENT INSTALLED AT EXTERIOR OF THE BUILDING SHALL BE ATTACHED WITH SCREWS AND THE LABEL SHALL HAVE PRE-PUNCHED OR PREDRILLED HOLES.

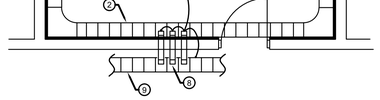
ELECTRICAL EQUIPMENT IDENTIFICATION

NOT TO SCALE



SUSPENDED LIGHT FIXTURE MOUNTING DETAIL

NOT TO SCALE

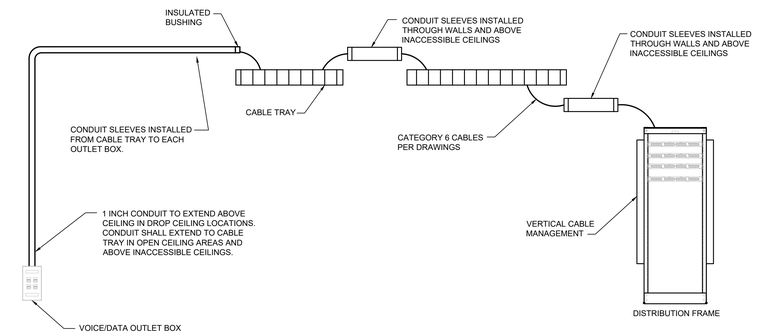


DETAIL NOTES

1. INSTALL 3/4 INCH THICK, FIRE RETARDANT PLYWOOD AROUND THE PERIMETER WALLS.
2. INSTALL CABLE RUNWAY AROUND THE PERIMETER WALLS. MOUNT ABOVE TOP OF DOOR FRAME.
3. INSTALL COPPER GROUNDING BUSBAR ADJACENT TO THE COMMUNICATION RACK(S). BUSBAR SHALL BE A MINIMUM OF 1/4 INCH THICK BY 4 INCHES WIDE BY 20 INCHES LONG. REFER TO DETAIL THIS SHEET FOR MORE INFO.
4. INSTALL A #4 MINIMUM INSULATED GROUNDING CONDUCTOR IN CONDUIT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM.
5. INSTALL A MINIMUM #6 INSULATED BONDING CONDUCTOR TO THE COMMUNICATION RACK(S), CONDUIT SLEEVES, CABLE RUNWAY, AND CABLE TRAY.
6. COMMUNICATION RACK SHOWN FOR REFERENCE ONLY. REFER TO THE FLOOR PLAN FOR THE EXACT LOCATION AND QUANTITY OF RACKS TO BE INSTALLED.
7. INSTALL BONDING CONDUCTOR TO TELEPHONE, DATA, AND TELEVISION SERVICE ENTRANCE. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY. REFER TO THE FLOOR PLANS FOR SERVICE ENTRANCE LOCATIONS.
8. INSTALL 3 INCH EMT CONDUIT SLEEVES WITH INSULATED BUSHINGS ON EACH END BETWEEN THE COMMUNICATIONS CLOSET AND CABLE TRAY. REFER TO THE FLOOR PLANS FOR CABLE TRAY LOCATIONS. INSTALL QUANTITY OF CONDUITS AS REQUIRED TO MAINTAIN A 40% FILL RATIO.
9. CABLE TRAY. REFER TO THE FLOOR PLANS FOR LOCATION.
10. INSTALL COMMUNICATION SERVICE ENTRANCE CONDUITS. INSTALL CONDUITS TO 4 INCHES ABOVE FINISHED FLOOR. REFER TO THE FLOOR PLANS FOR THE SERVICE ENTRANCE LOCATION, QUANTITY, AND SIZE OF CONDUITS.
11. THIS DETAIL DESCRIBES THE GENERAL CONSTRUCTION REQUIREMENTS FOR ALL COMMUNICATION CLOSETS. REFER TO THE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.

TYPICAL COMMUNICATION CLOSET CONSTRUCTION DETAIL

NOT TO SCALE



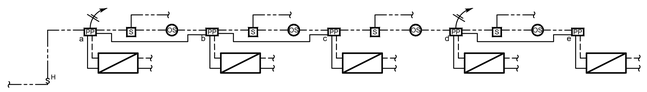
TYPICAL CABLE DISTRIBUTION ONE-LINE DIAGRAM

NOT TO SCALE

1. ALL VOICE AND DATA CABLING SHALL BE RUN ABOVE THE FINISHED FLOOR EXCEPT FOR FLOOR BOX AND ISLAND FURNITURE (RECEPTION DESK, ETC.) LOCATIONS.
2. ALL VOICE AND DATA CABLING ROUTED IN-SLAB OR BELOW SLAB TO SERVE THE FLOOR BOXES OR OTHER LOCATIONS SHALL BE WET LOCATION RATED (MOHAWK INDOOR/OUTDOOR RATED OR EQUIVALENT). INSTALL IN CONDUIT. THE CONDUIT SHALL EXTEND TO THE NEAREST MDF OR IDF AND CONNECT TO THE PATCH PANELS AS REQUIRED.
3. ALL CABLING INCLUDING COAXIAL, VGA, SPEAKER, CLOCK, HVAC CONTROLS, ETC. SHALL BE ROUTED IN THE MANNER SHOWN. NO CABLING SHALL BE ROUTED THROUGH TRUSSES OR SUPPORTED BY CEILING GRID WIRE TIES OR LIGHT FIXTURE WIRE TIES.
4. PROVIDE A COMPLETE UNINTERRUPTED PATHWAY BETWEEN ALL HEADEND EQUIPMENT AND OUTLETS AS SHOWN IN THE DIAGRAM. CONDUIT SLEEVES SHALL BE SIZED TO NOT EXCEED 40% CAPACITY. ANY CABLES THAT PENETRATE A WALL SHALL BE INSTALLED IN A CONDUIT SLEEVE.
5. CABLE STRAPS SHALL BE REUSABLE BLACK VELCRO CABLE WRAPS. NO ZIP TIES WILL BE PERMITTED.

LIGHTING

SYMBOL	DESCRIPTION
S^A	ON/OFF (nLIGHT nPODM;...)
S^B	ON/OFF, RAISE/LOWER (nLIGHT nPODM DX;...)
S^C	2-ZONE, ON/OFF (nLIGHT...; WATTSTOPPER...)
S^E	2-ZONE, ON/OFF, RAISE/LOWER (nLIGHT...; WATTSTOPPER...)
S^F	OCCUPANCY SENSOR, ON/OFF (nLIGHT...; WATTSTOPPER...)
S^G	OCCUPANCY SENSOR, ON/OFF, RAISE/LOWER (nLIGHT...; WATTSTOPPER...)
S^H	4-ZONE, ON/OFF, RAISE/LOWER (nLIGHT...; WATTSTOPPER...)
S^L	LOW VOLTAGE (nLIGHT nPODM;...)
PP$_a$	POWER PACK - 'a' SUBSCRIPT INDICATES ZONE (nLIGHT nPP16D; WATTSTOPPER...)
EP$_a$	EMERGENCY POWER PACK - 'a' SUBSCRIPT INDICATES ZONE (nLIGHT...)
PL$_a$	PLUG LOAD CONTROL POWER PACK - 'a' SUBSCRIPT INDICATES ZONE (nLIGHT...)
	LIGHT FIXTURE DRIVER. REFER TO LIGHT FIXTURE SCHEDULE - 'a' SUBSCRIPT INDICATES ZONE CONTROL.
S	RJ45 SPLITTER
OS	360 DEGREE DUAL TECHNOLOGY OCCUPANCY SENSOR (nLIGHT...)
OS	CORNER MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR (nLIGHT...)
DS	DAYLIGHT SENSOR (nLIGHT...; WATTSTOPPER...)
	2#18 DIMMING CONDUCTOR CABLE
	CATEGORY 5E UTP NETWORK CABLE

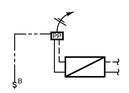


ZONE CONTROL

1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
2. MANUAL RAISE/LOWER BY SWITCH.
3. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

1 TYPICAL LIGHTING CONTROL RISER

NOT TO SCALE

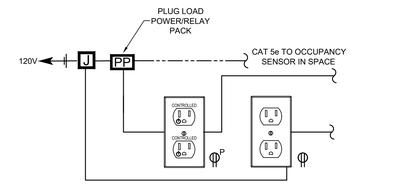


ZONE CONTROL

1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
2. MANUAL RAISE/LOWER BY SWITCH.
3. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

2 TYPICAL LIGHTING CONTROL RISER

NOT TO SCALE



TYPICAL CONTROLLED RECEPTACLE WIRING DIAGRAM

NOT TO SCALE

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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

ELECTRICAL DETAILS

JOB NO.	1759
DATE	12/16/19
DRAWN	JE
CHECKED	WC

REVISIONS

No.	Description	Date

SHEET

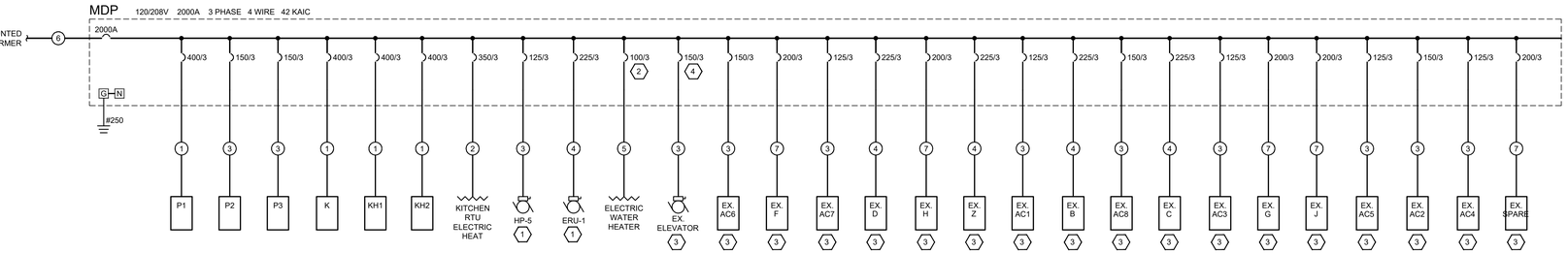
E5.1

ONE LINE SCHEDULE

1	(2 SETS) 3#3/0, 1#3G, 2-1/2"C
2	(2 SETS) 3#2/0, 1#3G, 2"C
3	3#1/0, 1#6G, 2"C
4	3#4/0, 1#4G, 2-1/2"C
5	3#1, 1#8G, 1-1/2"C
6	(7 SETS) 3#350, 3-1/2"C
7	3#3/0, 1#6G, 2-1/2"C

SHEET KEYNOTES:

1. MECHANICAL EQUIPMENT PROVIDED WITH FACTORY INSTALLED DISCONNECT.
2. BREAKER TO BE LOCKABLE.
3. ITEMS WITH "EX." IN THEIR NAME ARE EXISTING TO REMAIN. CIRCUIT BREAKERS AND FEEDERS FROM NEW "MDP" TO THESE EXISTING PANELBOARDS ARE TO BE NEW.
4. BREAKER TO BE SHUNT TRIP TYPE.



LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	LAMPS TYPE	CRI	DIMMING	COLOR TEMP	LUMENS	WATTS	VOLTS	MOUNTING TYPE	MANUFACTURER - MODEL NUMBER	NOTES
A	RECESSED 2'x4' TROFFER LED	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA - 2BLT4 EATON EQUAL HUBBELL EQUAL	1
AE	SAME AS TYPE 'A' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA - 2BLT4 EATON EQUAL HUBBELL EQUAL	1
A2	RECESSED 2'x2' TROFFER LED	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA - 2BLT2 EATON EQUAL HUBBELL EQUAL	1
A2E	SAME AS TYPE 'A2' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA - 2BLT2 EATON EQUAL HUBBELL EQUAL	1
B1	RECESSED 2'x2' TROFFER LED, 1" DROP LENS.	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	AXIS - SKYEFALL EATON EQUAL HUBBELL EQUAL	1
B3	RECESSED 2'x2' TROFFER LED, 3" DROP LENS.	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	AXIS - SKYEFALL EATON EQUAL HUBBELL EQUAL	1
B3E	SAME AS TYPE 'B3' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	AXIS - SKYEFALL EATON EQUAL HUBBELL EQUAL	1
B5	RECESSED 2'x2' TROFFER LED, 5" DROP LENS.	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	AXIS - SKYEFALL EATON EQUAL HUBBELL EQUAL	1
BE	SAME AS TYPE 'A2' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	AXIS - SKYEFALL EATON EQUAL HUBBELL EQUAL	1
C	4' LED STRIP, CHAIN MOUNT	LED	>80	0-10V, @ 1%	3500K	3900	38	120	SUSPENDED	LITHONIA - CLX EATON EQUAL HUBBELL EQUAL	1
CE	SAME AS TYPE 'C' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	SUSPENDED	LITHONIA - CLX EATON EQUAL HUBBELL EQUAL	1
D	4' LED STRIP	LED	>80	0-10V, @ 1%	3500K	3900	38	120	SURFACE	LITHONIA - WL4 EATON EQUAL HUBBELL EQUAL	1
DE	SAME AS TYPE 'D' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	SURFACE	LITHONIA - WL4 EATON EQUAL HUBBELL EQUAL	1
F	PENDANT - DECORATIVE	LED	>80	0-10V, @ 1%	3500K	12000	100	120	PENDANT	SPI - PENTAGON EATON EQUAL HUBBELL EQUAL	1
G	LED 6" DOWNLIGHT	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA LDN6 EATON EQUAL HUBBELL EQUAL	1
H	LED 6" CYLINDER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	PENDANT	LITHONIA LDN6C EATON EQUAL HUBBELL EQUAL	1
HE	SAME AS TYPE 'H' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	PENDANT	LITHONIA LDN6C EATON EQUAL HUBBELL EQUAL	1
J	LED ROUGH SERVICE FIXTURE	LED	>80	0-10V, @ 1%	3500K	3900	38	120	SURFACE	LITHONIA EATON EQUAL HUBBELL EQUAL	1
K	RECESSED 2'x4' TROFFER LED	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA - WRT EATON EQUAL HUBBELL EQUAL	1
KE	SAME AS TYPE 'K' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	3900	38	120	RECESSED GRID	LITHONIA - WRT EATON EQUAL HUBBELL EQUAL	1
L	LED BATHROOM MARKER LIGHT	LED	>80	NO	3500K	1500	7	120	SURFACE	LITHONIA EATON EQUAL HUBBELL EQUAL	1
P2	LINEAR RECESSED, 4" WIDE, 2' LENGTH	LED	>80	0-10V, @ 1%	3500K	12000	100	120	PENDANT	AXIS - BEAM4 EATON EQUAL HUBBELL EQUAL	1
P4	LINEAR RECESSED, 4" WIDE, 4' LENGTH	LED	>80	0-10V, @ 1%	3500K	12000	100	120	PENDANT	AXIS - BEAM4 EATON EQUAL HUBBELL EQUAL	1
P4E	SAME AS TYPE 'P4' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	3500K	12000	100	120	PENDANT	AXIS - BEAM4 EATON EQUAL HUBBELL EQUAL	1
P6	LINEAR RECESSED, 4" WIDE, 6' LENGTH	LED	>80	0-10V, @ 1%	3500K	12000	100	120	PENDANT	AXIS - BEAM4 EATON EQUAL HUBBELL EQUAL	1
P8	LINEAR RECESSED, 4" WIDE, 8' LENGTH	LED	>80	0-10V, @ 1%	3500K	12000	100	120	PENDANT	AXIS - BEAM4 EATON EQUAL HUBBELL EQUAL	1
R4	LINEAR PENDANT, 3" WIDE, 4' LENGTH	LED	>80	NO	3500K	12000	100	120	SUSPENDED	AXIS - BEAM 3 EATON EQUAL HUBBELL EQUAL	1, 2
R6	LINEAR PENDANT, 3" WIDE, 6' LENGTH	LED	>80	NO	3500K	12000	100	120	SUSPENDED	AXIS - BEAM 3 EATON EQUAL HUBBELL EQUAL	1, 2
Z	LED POLE LIGHT	LED	>70	NO	3500K	12000	100	120	POLE	LITHONIA EATON EQUAL HUBBELL EQUAL	1
Z1E	LED EGRESS WALLPACK	LED	>70	NO	3500K	9700	80	120	SURFACE	LITHONIA - KAXW EATON EQUAL HUBBELL EQUAL	1
Z2	LED FLOOD LIGHT	LED	>70	NO	3500K	12000	100	120	POLE	LITHONIA DSX EATON EQUAL HUBBELL EQUAL	1
Z3	LED WALLPACK	LED	>70	NO	3500K	12000	100	120	POLE	LITHONIA DSX EATON EQUAL HUBBELL EQUAL	1
X1	LED EXIT SIGN, SINGLE SIDED	LED	N/A	N/A	N/A	N/A	2.5	120	SURFACE	LITHONIA - LE EATON EQUAL HUBBELL EQUAL	1
X2	LED EXIT SIGN, DOUBLE SIDED	LED	N/A	N/A	N/A	N/A	2.5	120	SURFACE	LITHONIA - LE EATON EQUAL HUBBELL EQUAL	1

NOTES:
1 ARCHITECT TO SELECT FINISH FROM MANUFACTURERS FULL LINE
2 FIXTURE TO BE SUSPENDED SUCH THAT BOTTOM OF FIXTURE IS EVEN WITH ADJACENT CEILING PANEL

PANEL 'P1'

BRANCH CIRCUIT PANELBOARD

VOLTAGE 120/208 | 3 PHASE 4 WIRE | POLES 54 | MAIN AMPS 400 | MAIN TYPE MLO | A. I. RATING 22,000 | MOUNTING SURFACE

POLE NO.	BREAKER TRIP	BREAKER P	LOAD SERVED	PHASE LOADS KVA	A	B	C	KVA	LOAD SERVED	BREAKER TRIP	BREAKER P	POLE NO.
1	20	1	RECEPTS. MECH 119, EXT.	0.7	1.7			1.0	WASHER	20	1	2
3	30	2	DRYER	1.5		2.2		0.7	RECEPTS. 120,118	20	1	4
5				1.5			2.5	1.0	HAND DRYER 121	20	1	6
7	20	1	HAND DRYER	1.0	2.0			1.0	HAND DRYER 121	20	1	8
9	20	1	HAND DRYER	1.0		1.5		0.5	WATER COOLERS CORR. A	20G	1	10
11	20	1	RECEPT. 121, 122	0.7			1.1	0.4	RECEPT. 123	20	1	12
13	20G	1	WATER COOLER 125	0.5	1.6			1.1	RECEPTS. 125	20	1	14
15	20	1	RECEPT. DATA 127	1.0		2.1		1.1	RECEPTS. 125	20	1	16
17	20	1	RECEPT. 125, 126, 124, EXT.	1.3			1.8	0.5	RECEPTS. 117, CNTR 115/116	20	1	18
19	15	2	HP-3 KITCHEN	0.6	1.0			0.4	HP-2 KITCHEN	15	2	20
21				0.6		1.0		0.4				22
23	40	3	HP-1 KITCHEN	2.7			3.9	1.3	HP-4 CORR. A	15	3	24
25				2.7	3.9			1.3				26
27				2.7		3.9		1.3				28
29	35	3	P-1 MECH. 119	2.1			4.2	2.1	P-2 MECH 119	35	3	30
31				2.1	4.2			2.1				32
33				2.1		4.2		2.1				34
35	15	2	EH-2 VEST. 126	1.1			3.6	2.5	EH-8	30	2	36
37				1.1	3.6			2.5				38
39	15	2	EH4 VEST. 118	1.1		2.3		1.1	EH-3	15	2	40
41				1.1			2.3	1.1				42
43	15	2	EH-1 VEST. 130	1.1	2.1			1.0	RECEPT IDF	20	1	44
45				1.1		2.1		1.0	RECEPT IDF	20	1	46
47	30	2	EH-8	2.5			3.4	0.9	RP-01	20	1	48
49				2.5	4.0			1.5	LIGHTING 125	20	1	50
51	15	1	EH-13	0.8		2.3		1.5	LIGHTING 125	20	1	52
53	15	1	EH-12	0.8			0.0	1.5	LIGHTING 119-123	20	1	54
55	20	1	LIGHT SITE POLE - MIDDLE	0.8	0.0			0.4	LIGHT SITE POLE - BACK	20	1	56
57					0.0							58
59						0.0						60
61					0.0							62
63						0.0						64
65							0.0					66
67					0.0							68
69						0.0						70
71				0.8			0.0					72
			PHASE TOTALS:		24.2	21.6	22.8	TOTAL:	68.5	KVA		

NOTES:
1.
2.

ABBREVIATIONS:
G - GFCI BREAKER
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L - LOCKOUT BREAKER
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C - COMBINATION GFCI/AFCI BREAKER
MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY

PANEL 'P2'

BRANCH CIRCUIT PANELBOARD

VOLTAGE 120/208 | 3 PHASE 4 WIRE | POLES 54 | MAIN AMPS 150 | MAIN TYPE MLO | A. I. RATING 22,000 | MOUNTING SURFACE

POLE NO.	BREAKER TRIP	BREAKER P	LOAD SERVED	PHASE LOADS KVA	A	B	C	KVA	LOAD SERVED	BREAKER TRIP	BREAKER P	POLE NO.
1	20	1	RECEPTS. 100A	0.9	1.2			0.3	CHP-15 100A	15	2	2
3	15	2	EH-6 VEST. A	1.1		1.5		0.3	-	-	-	4
5	-	-	-	1.1			1.9	0.8	EH-11 114A	15	1	6
7	15	1	EH-10 104A	0.8	1.5			0.7	RECEPTS. 103A, 103, 104 CNTR	20	1	8
9	20	1	RECEPTS. 102, 102B, 102A	0.9		1.4		0.5	WATER COOLERS CORR. B	20G	1	10
11	20G	1	REFRIGERATOR 101A	1.0			1.4	0.4	RECEPT. CNTR, 101A, 102	20	1	12
13	20	1	RECEPTS. 101	0.4	0.9			0.5	CHP-12 RM. 102	15	2	14
15	15	2	CHP-13 RM. 101	0.5		1.0		0.5	-	-	-	16
17	-	-	-	0.5			2.5	2.0	DRYER 102B	30	2	18
19	15	1	EH-12 RM. 108A	0.8	2.8			2.0	-	-	-	20
21	15	2	EH-5 STAIR B	1.1		1.9		0.8	EH-9 RM 107A	15	1	22
23	20	1	LIGHTING	1.0			2.0	1.0	LIGHTING	20	1	24
25	20	1	SPARE	0.5	0.6			0.1	FLAGPOLE LIGHT	20	1	26
27	20	1	SPARE	0.5		0.5		0.0	SPACE	-	-	28
29	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	30
31	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	32
33	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	34
35	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	36
37	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	38
39	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	40
41	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	42
			PHASE TOTALS:		6.9	6.2	7.7	TOTAL:	20.9	KVA		

NOTES:
1.
2.

ABBREVIATIONS:
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A - AFCI BREAKER
L - LOCKOUT BREAKER
S - SHUNT TRIP BREAKER
C - COMBINATION GFCI/AFCI BREAKER
MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY

PANEL 'P3'

BRANCH CIRCUIT PANELBOARD

VOLTAGE 120/208 | 3 PHASE 4 WIRE | POLES 54 | MAIN AMPS 150 | MAIN TYPE MLO | A. I. RATING 22,000 | MOUNTING SURFACE

POLE NO.	BREAKER TRIP	BREAKER P	LOAD SERVED	PHASE LOADS KVA	A	B	C	KVA	LOAD SERVED	BREAKER TRIP	BREAKER P	POLE NO.
1	20	1	RECEPTS. 201, 200	0.9	1.9			1.0	HAND DRYER 202	20	1	2
3	20G	1	RECEPTS. 202, 203	0.7		0.7			HAND DRYER 202	20	1	4
5	20	1	HAND DRYER 203	1.0			1.5	0.5	WATER COOLER 200	20	1	6
7	20	1	HAND DRYER 203	1.0	2.4			1.4	RECEPTS. 204	20	1	8
9	15	2	CHP-16, RM. 204	0.3		0.8		0.5	SPARE	20	1	10
11	-	-	-	0.3			0.8	0.5	SPARE	20	1	12
13	20	1	SPARE	0.5	1.0			0.5	SPARE	20	1	14
15	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	16
17	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	18
19	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	20
21	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	22
23	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	24
25	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	26
27	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	28
29	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	30
31	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	32
33	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	34
35	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	36
37	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	38
39	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	40
41	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	42
			PHASE TOTALS:		5.3	1.6	2.3	TOTAL:	9.2	KVA		

NOTES:
1.
2.

ABBREVIATIONS:
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MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY

PANEL 'K'

BRANCH CIRCUIT PANELBOARD

VOLTAGE 120/208 | 3 PHASE 4 WIRE | POLES 72 | MAIN AMPS 400 | MAIN TYPE MLO | A. I. RATING 22,000 | MOUNTING FLUSH

POLE NO.	BREAKER TRIP	BREAKER P	LOAD SERVED	PHASE LOADS KVA	A	B	C	KVA	LOAD SERVED	BREAKER TRIP	BREAKER P	POLE NO.
1	25	2	COOLER CU (EXISTING)	1.1	1.3			0.2	COOLER BLOWER (EXISTING)	15	1	2
3	-	-		1.1		2.6		1.5	FREEZER BLOWER (EXISTING)	20	2	4
5	45	2	FREEZER CU (EXISTING	1.7			3.2	1.5				
7	-	-		1.7	2.2			0.5	FREEZER HEAT TRACE	20G	1	8
9	20G	1	RECEPT. COOLER/FREEZER ALARM	0.5		1.5		1.0	COOLER/FREEZER 1GTS, CNTRL	20	1	10
11	20	1	RECEPT. SLICER	0.7			1.2	0.5	RECEPT. COUNTER	20	1	12
13	20	1	RECEPT.COUNTER	0.5	1.0			0.5	RECEPT. COUNTER	20	1	14
15	20	1	RECEPTS	0.7		1.2		0.5	RECEPT. COUNTER	20	1	16
17	20	1	RECEPT. COUNTER	0.5			0.9	0.4	RECEPT. MILK COOLER	20G	1	18
19	20G	1	PASS THROUGH REFRIG.	1.2	5.2			4.0	PASS THROUGH OVEN	50G	3	20
21	20G	1	RECEPT. COLD FOOD TABLE	0.9		4.9		4.0	-	-	-	22
23	30G	2	RECEPT. HOT FOOD TABLE	1.5			5.5	4.0	-	-	-	24
25	-	-	-	1.5	2.0			0.5	RECEPT. CASHIER	20G	1	26
27	30G	2	RECEPT. HOT FOOD TABLE	1.5		2.0		0.5	RECEPT. CASHIER	20G	1	28
29	-	-	-	1.5			2.4	0.9	RECEPT. COLD FOOD TABLE	20G	1	30
31	50G	3	PASS THROUGH OVEN	4.0	5.2			1.2	PASS THROUGH REFRIG.	20G	1	32
33	-	-	-	4.0		5.6		1.6	RECEPT. COUNTER MICROWAVE	20	1	34
35	-	-	-	4.0			4.5	0.5	RECEPT. COUNTER	20	1	36
37	20G	1	RECEPT. MILK COOLER	0.4	1.3			0.9	RECEPTS. LAUNDRY STAFF RR	20	1	38
39	20G	1	RECEPT. ICE MACHINE	1.1		1.8		0.7	RECEPTS. LAUNDRY STAFF RR	20	1	40
41	20	1	RECEPT. VESTIBULE EXT DOOR BELL	0.5			1.3	0.7	RECEPT. OFFICE	20	1	42
43	20	1	RECEPT. COUNTER	0.5	0.9			0.4	RECEPT. FOOD PROCESSER	20	1	44
45	15	3	DISPOSAL - KITCHEN	0.6		3.1		2.5	RECEPT. HOT WATER	30	2	46
47	-	-	-	0.6			3.1	2.5	-	-	-	48
49	-	-	-	0.6	1.7			1.1	RECEPT. 30QT MIXER	20	1	50
51	20	1	RECEPT. COUNTER	0.5		1.5		1.0	WASHER	20G	1	52
53	20	1	RECEPT. COUNTER	0.5			3.0	2.5	DRYER	30	2	54
55	15	3	DISPOSAL DISH AREA	0.7	3.2			2.5		-	-	56
57	-	-	-	0.7		6.4		5.7	POT/PAN WASH	60	3	58
59	-	-	-	0.7			6.4	5.7	-	-	-	60
61	15	1	CF-1 (ROOF)	0.5	6.2			5.7	-	-	-	62
63	30	3	SE-1/EF-1 (ROOF)	2.5		3.0		0.5	LIGHTING	20	1	64
65	-	-	-	2.5			3.0	0.5	LIGHTING	20	1	66
67	-	-		2.5	3.9			1.4	RECEPTS., EXT.	20G	1	68
69	20	1	ELEC. HEAT CNTRL (ROOF)	0.5		0.5		0.0	SPACE	-	-	70
71	20	1	KITCHEN HOOD HG/CNTRL	0.5			0.5	0.0	SPACE	-	-	72
			PHASE TOTALS:		34.2	34.1	34.9	TOTAL:	103.2	KVA		

NOTES:
1.
2.

ABBREVIATIONS:
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C - COMBINATION GFCI/AFCI BREAKER
MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY

PANEL 'KH1'

BRANCH CIRCUIT PANELBOARD

VOLTAGE 120/208 | 3 PHASE 4 WIRE | POLES 54 | MAIN AMPS 400S | MAIN TYPE MCB | A. I. RATING 22,000 | MOUNTING FLUSH

POLE NO.	BREAKER TRIP	BREAKER P	LOAD SERVED	PHASE LOADS KVA	A	B	C	KVA	LOAD SERVED	BREAKER TRIP	BREAKER P	POLE NO.
1	60	3	DOUBLE STACK OVEN 1 (A)	5.2	10.3			5.2	DOUBLE STACK OVEN 1 (B)	60	3	2
3	-	-	-	5.2		10.3		5.2	-	-	-	4
5	-	-	-	5.2			10.3	5.2	-	-	-	6
7	45	3	KETTLE 12 GAL	4.1	16.4			12.3	COMBI OVEN 1 (LOWER)	125	3	8
9	-	-	-	4.1		16.4		12.3	-	-	-	10
11	-	-	-	4.1			16.4	12.3	-	-	-	12
13	20	1	SPARE	0.5	7.9			7.4	COMBI OVEN 1 (UPPER)	70	3	14
15	20	1	SPARE	0.5		7.9		7.4	-	-	-	16
17	-	-	SPACE	0.0			7.4	7.4	-	-	-	18
19	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	20
21	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	22
23	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	24
25	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	26
27	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	28
29	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	30
			PHASE TOTALS:		34.6	34.6	34.1	TOTAL:	103.3	KVA		

NOTES:
1.MAIN BREAKER TO BE INTERLOCKED WITH HOOD CONTROLLER. ACTIVATION OF HOOD FIRE-SUPRESSION SYSTEM TO SHUNT-TRIP MAIN BREAKER IN THIS PANEL.

ABBREVIATIONS:
G - GFCI BREAKER
A - AFCI BREAKER
L - LOCKOUT BREAKER
S - SHUNT TRIP BREAKER
C - COMBINATION GFCI/AFCI BREAKER
MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY

PANEL 'KH2'

BRANCH CIRCUIT PANELBOARD

VOLTAGE 120/208 | 3 PHASE 4 WIRE | POLES 54 | MAIN AMPS 400S | MAIN TYPE MCB | A. I. RATING 22,000 | MOUNTING FLUSH

POLE NO.	BREAKER TRIP	BREAKER P	LOAD SERVED	PHASE LOADS KVA	A	B	C	KVA	LOAD SERVED	BREAKER TRIP	BREAKER P	POLE NO.
1	60	3	DOUBLE STACK OVEN 2 (A)	5.2	10.3			5.2	DOUBLE STACK OVEN 2 (B)	60	3	2
3	-	-	-	5.2		10.3		5.2	-	-	-	4
5	-	-	-	5.2			10.3	5.2	-	-	-	6
7	55		KETTLE 40 GAL (EXISTING)	4.9	17.2			12.3	COMBI OVEN 2 (LOWER)	125	3	8
9	-	-	-	4.9		17.2		12.3	-	-	-	10
11	-	-	-	4.9			17.2	12.3	-	-	-	12
13	20	1	SPARE	0.5	7.9			7.4	COMBI OVVEN 2 (UPPER)	70	3	14
15	20	1	SPARE	0.5		7.9		7.4	-	-	-	16
17	-	-	SPACE	0.0			7.4	7.4	-	-	-	18
19	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	20
21	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	22
23	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	24
25	-	-	SPACE	0.0	0.0			0.0	SPACE	-	-	26
27	-	-	SPACE	0.0		0.0		0.0	SPACE	-	-	28
29	-	-	SPACE	0.0			0.0	0.0	SPACE	-	-	30
			PHASE TOTALS:		35.4	34.9		TOTAL:	105.8	KVA		

NOTES:
1.MAIN BREAKER TO BE INTERLOCKED WITH HOOD CONTROLLER. ACTIVATION OF HOOD FIRE-SUPRESSION SYSTEM TO SHUNT-TRIP MAIN BREAKER IN THIS PANEL.

ABBREVIATIONS:
G - GFCI BREAKER
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SPENCER COUNTY EARLY LEARNING CENTER PHASE 1 ADDITION AND RENOVATION

TAYLORSVILLE, KENTUCKY

ELECTRICAL SCHEDULES & POWER ONE-LINE DIAGRAM

JOB NO.	1759
DATE	12/16/19
DRAWN	JE
CHECKED	WC

REVISIONS

No.	Description	Date

SHEET

E6.1