SCHOOL DISTRICT OF MILTON

CONSOLIDATED - ADDITION & RENOVATION

4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

MILTON
OPPORTUNITY · ACHIEVEMENT
COMMUNITY

PLUNKETT RAYSICH
ARCHITECTS, LLP

209 south water street milwaukee, wisconsin 53204 t 414 359 3060
2310 crossroads drive suite 2000 madison, wisconsin 53718 t 608 240 9900
1900 main street suite 309 sarasota, florida 54236 t 941 348 3618

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SHEET INDEX

PROJECT INFORMATION

PROJECT DATE:	09-13-19
PRA PROJECT NUMBER:	190106-06
DRAWING SET:	CONSTRUCTION DOCUMENTS

APPLICABLE CODES AND ZONING

2018 WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366)
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL BUILDING CODE
EDUCATIONAL OCCUPANCY, GROUP E
BUSINESS OCCUPANCY, GROUP B

ZONING: TOWN OF JANESVILLE WI ORDINANCES

CONSTRUCTION CLASSIFICATION

ADDITION AND ALTERATION
TYPE OF CONSTRUCTION, UNPROTECTED, TYPE IIB - NON-SPRINKLERED

BUILDING AREA

OVERALL FOOTPRINT	12,748 SF
EXISTING	
FIRST FLOOR	11,756 SF
EXISTING TOTAL	11,756 SF
ADDITIONS	
FIRST FLOOR	968 SF
BUILDING TOTAL	12,723 SF
ALTERATIONS	
FIRST FLOOR	793 SF

PROJECT LOCATION

PROJECT TEAM

JP CULLEN
THE TOUGH JOB EXPERTS

CONSTRUCTION MANAGER
JP Cullen & Sons Inc. TEL(608) 754-6601

CIVIL
Point of Beginning Inc. TEL715) 344-9999

STRUCTURAL
raSmith Inc. TEL(262) 317-3334

PLUMBING
Muermann Engineering LLC TEL(920) 894-7800

MECHANICAL
Fredericksen Engineering Inc. TEL(262) 243-9090

ELECTRICAL
Muermann Engineering LLC TEL(920) 894-7800

GENERAL NOTES:

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER EXCEPT FOR THOSE ITEMS NOTED TO BE SALVAGED, WHICH SHOULD BE TURNED OVER TO THE OWNER.
3. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE START OF DEMOLITION/CONSTRUCTION, IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES.
4. ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE.
5. COORDINATE WITH THE OWNER AND LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING UTILITIES ON SITE PRIOR TO THE START OF WORK.
6. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
7. STRIP TOPSOIL WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS.
8. IF STRIPPED TOPSOIL IS STOCKPILED ON SITE, SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT.

KEYNOTES:

1. SAWCUT EXISTING BITUMINOUS PAVEMENT
2. REMOVE & SALVAGE EXISTING SCHOOL BELL. REINSTALL PER OWNER'S DIRECTION.
3. REMOVE & SALVAGE EXISTING FLAGPOLE. REINSTALL PER OWNER'S DIRECTION.
4. REMOVE EXISTING BUILDING OVERHANG. COORDINATE WITH BUILDING CONTRACTOR.
5. REMOVE EXISTING FIBER OPTIC SERVICE & RECONNECT TO SCHOOL. COORDINATE WITH UTILTIY COMPANY.
6. REMOVE EXISTING GRAVEL AREA
7. PROTECT & MAINTAIN EXISTING SANITARY SEWER & GAS LINE
8. REMOVE & SALVAGE EXISTING SIGNS. RETURN TO OWNER.

DEMOLITION HATCH PATTERNS:

BITUMINOUS REMOVAL

CONCRETE REMOVAL

GRAVEL REMOVAL

CIVIL SHEET INDEX:

BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
60d SPIKE IN POWER POLE, LOCATED ON THE SOUTHWEST SIDE OF NORTH COUNTY ROAD "F" AND BEING APPROXIMATELY 135 FEET SOUTHEAST OF NORTH CONSOLIDATED SCHOOL ROAD.
ELEVATION = 915.15

BENCHMARK #2
60d SPIKE IN POWER POLE, LOCATED IN THE NORTHWEST CORNER OF NORTH COUNTY ROAD "F" AND NORTH CONSOLIDATED SCHOOL ROAD.
ELEVATION = 914.98

DRAWN BY: JHB

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SCHOOL DISTRICT OF MILTON CONSOLIDATED - ADDITION & RENOVATION

4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

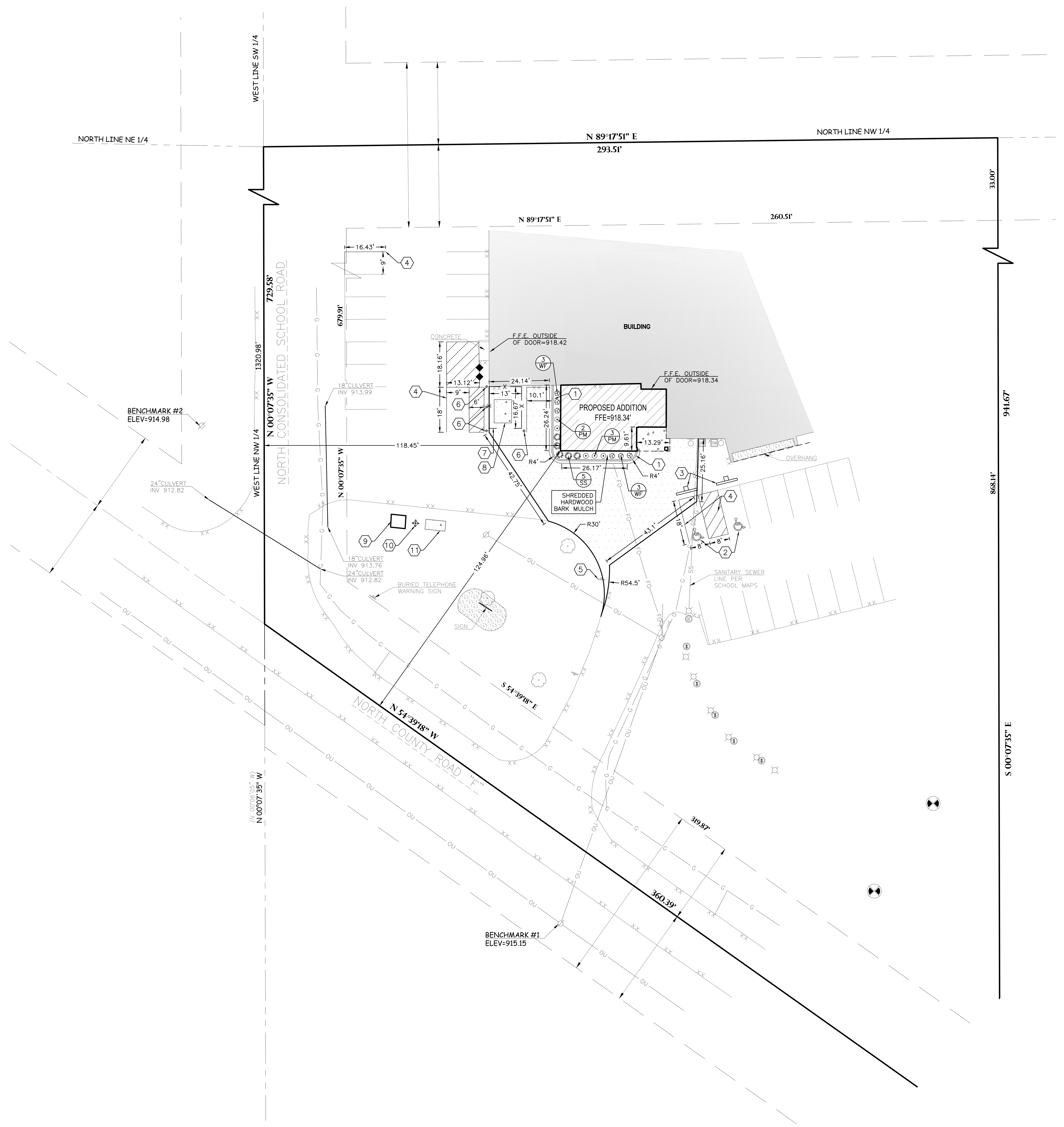
REVISIONS:

DEMOLITION PLAN

Construction Documents

BID PACKAGE:	
DATE:	09-13-19
JOB NO:	190106-06
SHEET NO:	C100

ISSUED FOR BID



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ELEVATION = 914.98

NORTH

0 10 20 40

SCALE: 1" = 20'

DRAWN BY: JHB

GENERAL NOTES:

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ALL REQUIRED EROSION CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
4. SEE SHEET C102 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
5. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
7. ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE.
8. PRIOR TO THE START OF WORK VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
9. COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
10. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING.
11. SEED/FERTILIZE/CRIMP HAY MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION.
12. ALL PLANT MATERIALS LISTED SHALL MEET THE STANDARDS OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION FOR THE SIZES GIVEN.
13. CURV-RITE LANDSCAPE EDGING OR APPROVED EQUAL SHALL BE PLACED AROUND ALL LANDSCAPE BEDS.
14. 3" DEPTH OF SHREDDED HARDWOOD BARK MULCH SHALL BE PLACED IN PLANTING BEDS.
15. FILTER FABRIC SHALL BE PLACED BENEATH ALL BARK MULCH.
16. COORDINATE ALL LANDSCAPE WORK WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.

KEYNOTES:

1. 18" CONCRETE CURB & GUTTER (REJECT) — 3/C101
2. HANDICAP PARKING STALL — 4/C101
3. HANDICAP PARKING SIGN — 5/C101
4. PARKING LOT STRIPING — 4/C101
5. RELOCATE EXISTING SIGN TO BE 4' FROM PAVEMENT
6. CONCRETE BOLLARD (SEE ARCHITECTURAL PLANS)
7. SCREENED ENCLOSURE (SEE ARCHITECTURAL PLANS)
8. TRANSFORMER PAD (SEE ELECTRICAL PLANS)
9. INSTALL SALVAGED SCHOOL BELL (CONFIRM LOCATION WITH OWNER)
10. INSTALL SALVAGED FLAG POLE (CONFIRM LOCATION WITH OWNER)
11. 4'x8' CONCRETE PAD WITH BENCH (BENCH SUPPLIED BY OTHERS. CONFIRM LOCATION WITH OWNER) — 2/C101

PAVEMENT HATCH PATTERNS:

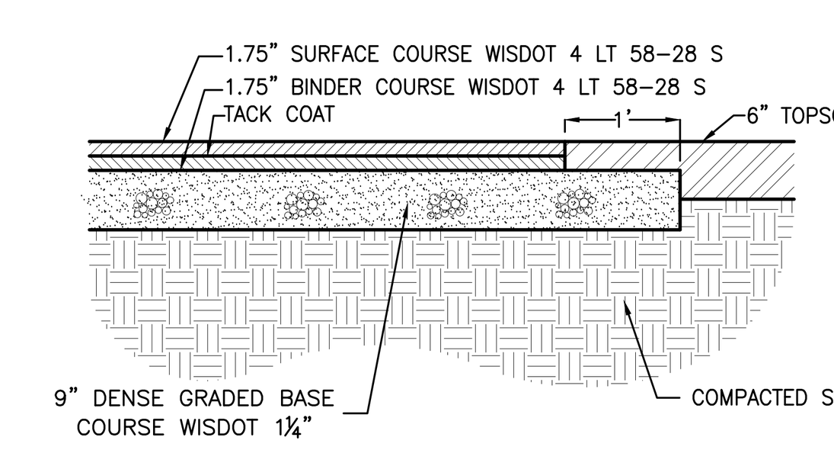
PROPOSED 3.5" ASPHALTIC CONCRETE PAVEMENT W/ 9" BASE COURSE — 1/C101

PROPOSED 4" CONCRETE PAVEMENT — 2/C101

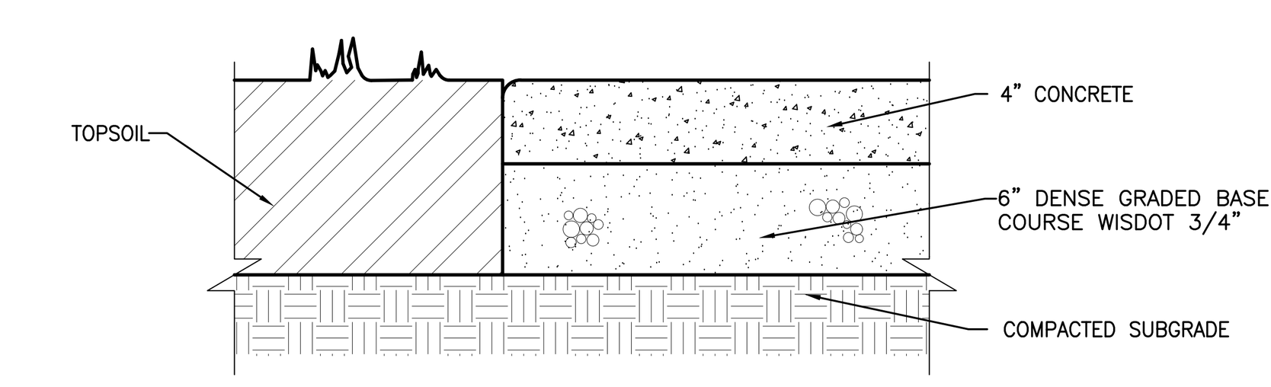
PLANTING SCHEDULE:

SHRUBS SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
PM	PINUS MUGO 'SHERWOOD COMPACT'	SHERWOOD COMPACT MUGO PINE	3 GAL.	2'T & W	5
WF	WEIGELA FLORIDA 'ELVERA'	MIDNIGHT WINE WEIGELA	3 GAL.	10-12"T X 24"W	6

ORNAMENTAL GRASS SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
SS	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	THE BLUES LITTLE BLUESTEM	1 GAL.	2-3'T & W	5

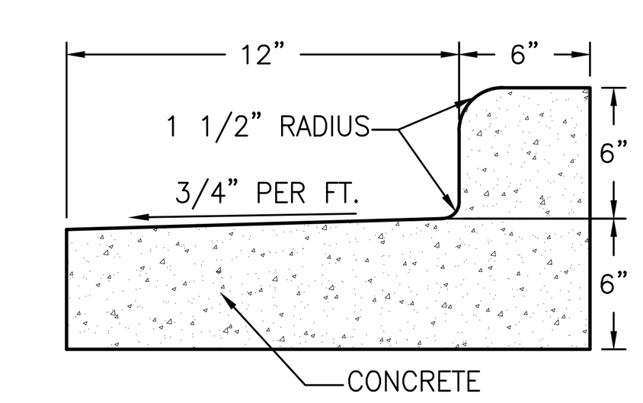


ASPHALT PAVEMENT 1/C101



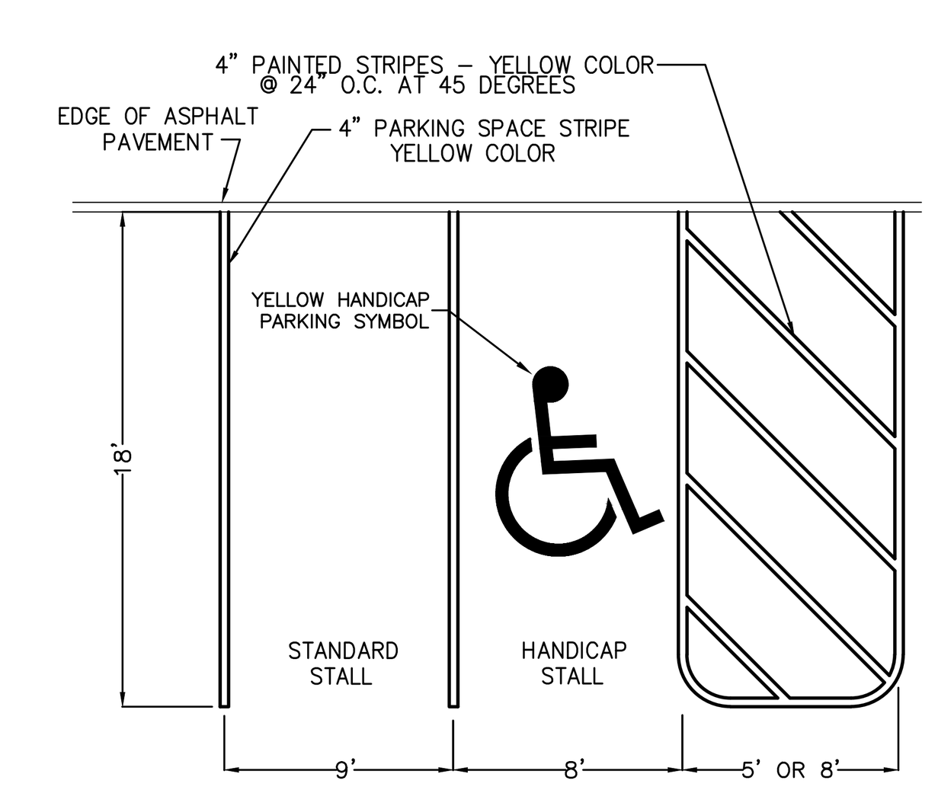
SIDEWALK

CONCRETE PAVEMENT 2/C101

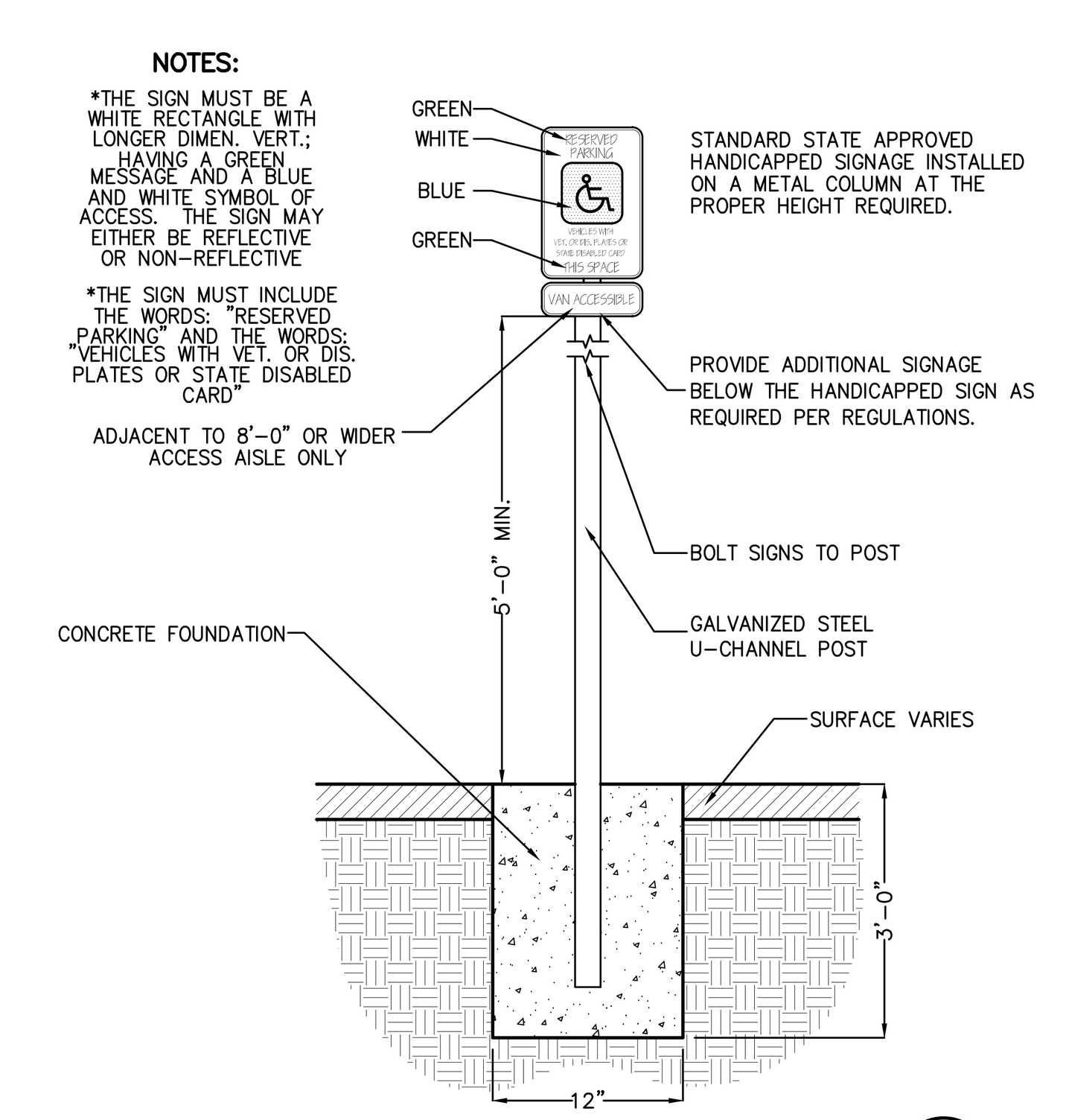


REJECT CURB

18" CURB AND GUTTER 3/C101



PARKING LOT STRIPING 4/C101



HANDICAP PARKING SIGN 5/C101

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REVISIONS:

LAYOUT PLAN

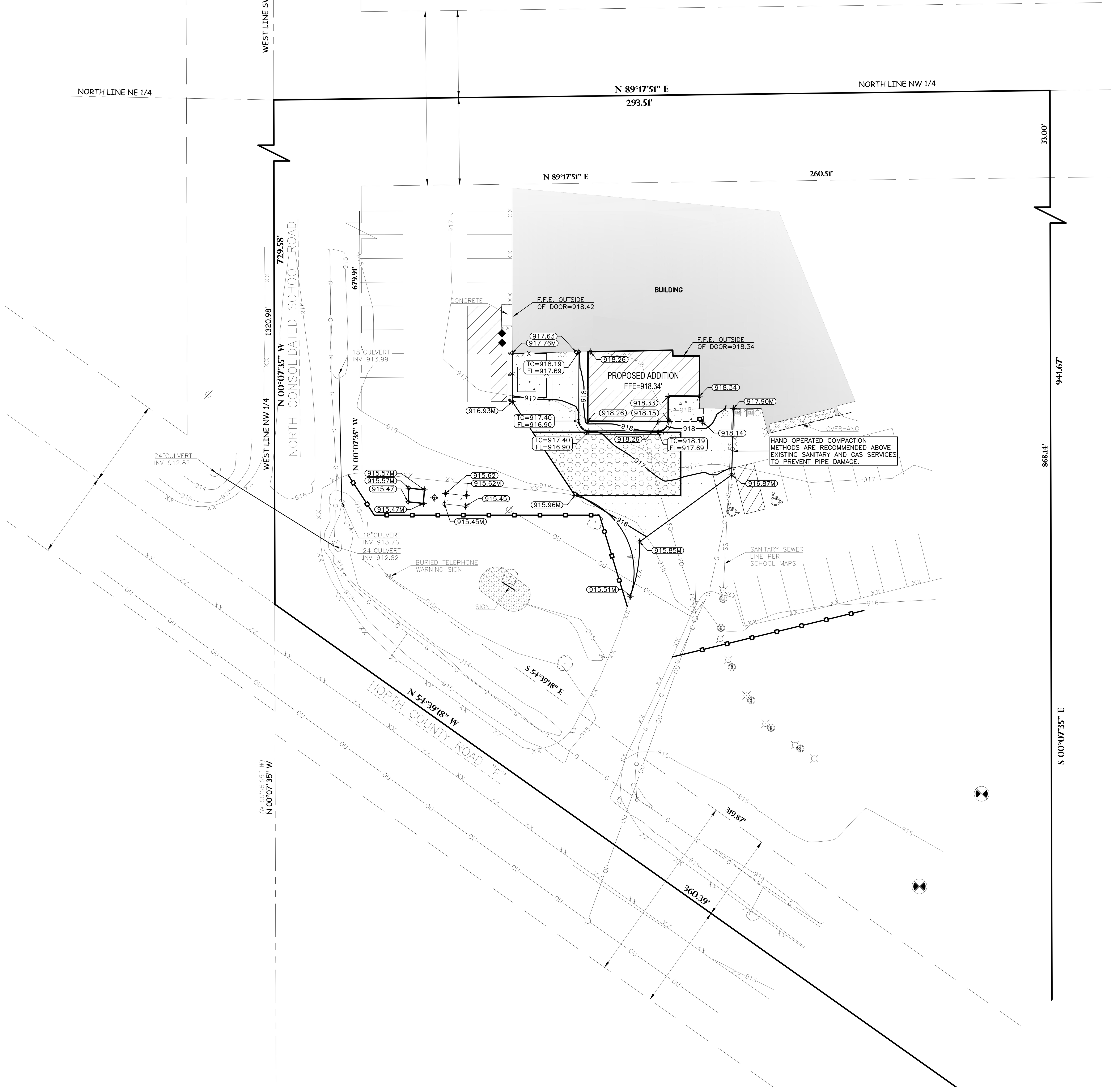
BID PACKAGE: Construction Documents

DATE: 09-13-19

JOB NO: 190106-06

SHEET NO: C101

ISSUED FOR BID



BENCH MARK

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ELEVATION = 914.98

GENERAL NOTES:

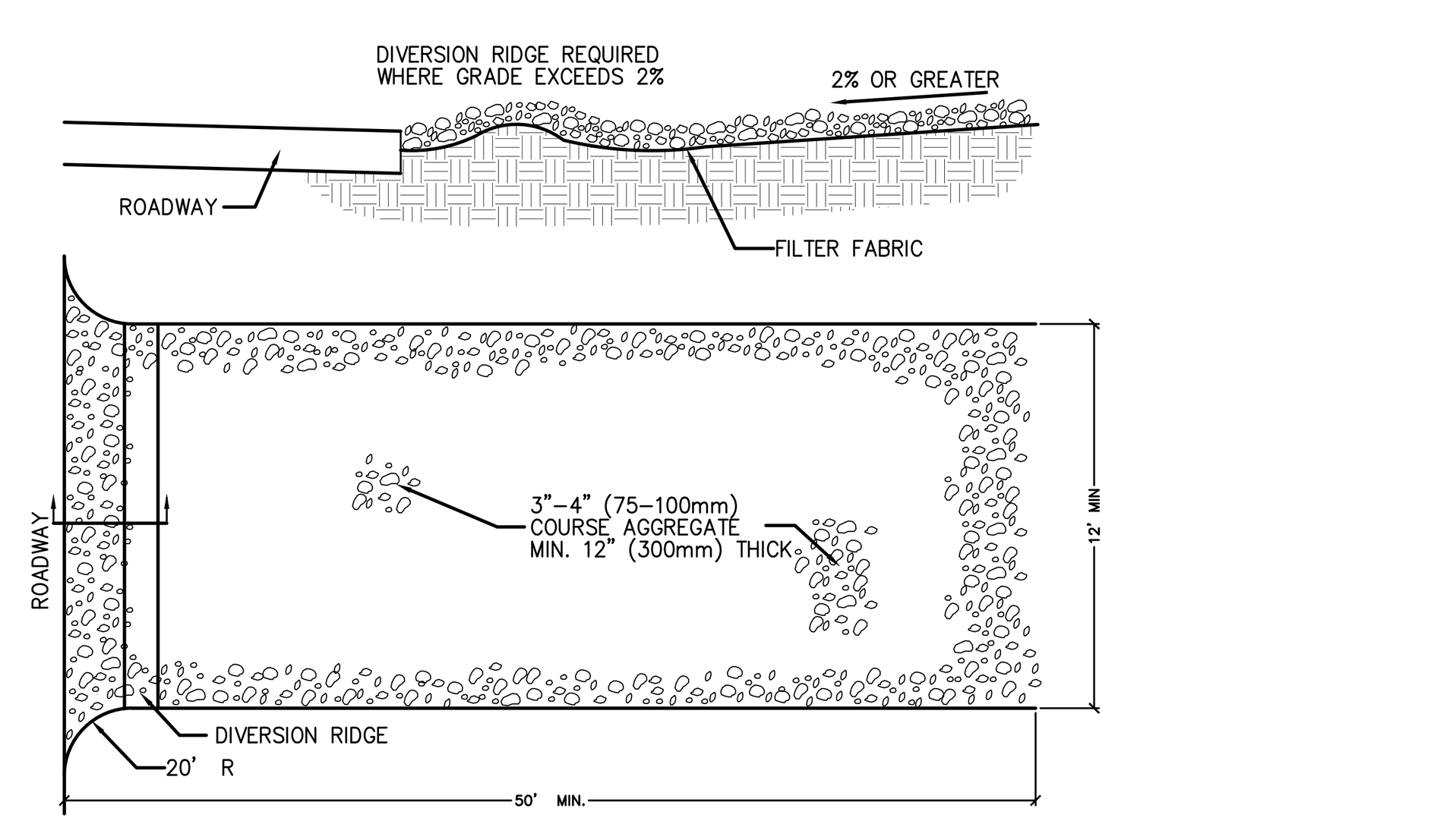
1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION OF 918.34 EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
3. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
4. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES AND THE DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
5. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
6. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
7. COORDINATE ALL EARTHWORK ACTIVITIES WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.
8. EXCESS TOPSOIL SHALL BE REMOVED FROM SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR LOCATION OF STOCKPILE IF THE OWNER CHOOSES TO SALVAGE EXCESS TOPSOIL FOR FUTURE USE. SILT FENCE SHALL BE PLACED AROUND STOCKPILE.
9. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
2. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
3. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
6. OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH THE WI DNR TECHNICAL STANDARDS 1061 TO PREVENT THE DISCHARGE OF SEDIMENT TO THE MAXIMUM EXTENT PRACTICABLE.
13. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOW OR FROZEN GROUND.
14. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
15. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400-187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

GRADING & EROSION CONTROL LEGEND:

EXISTING CONTOUR	712	
PROPOSED CONTOUR	712	
PROPOSED SPOT ELEVATION	892.26	
PROPOSED TOP OF CURB ELEVATION	TC=893.56	
PROPOSED FLOW LINE ELEVATION	FL=893.56	
PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY)	892.05M	
PROPOSED SILT FENCE		2 / C102
ROCK CONSTRUCTION ENTRANCE		1 / C102

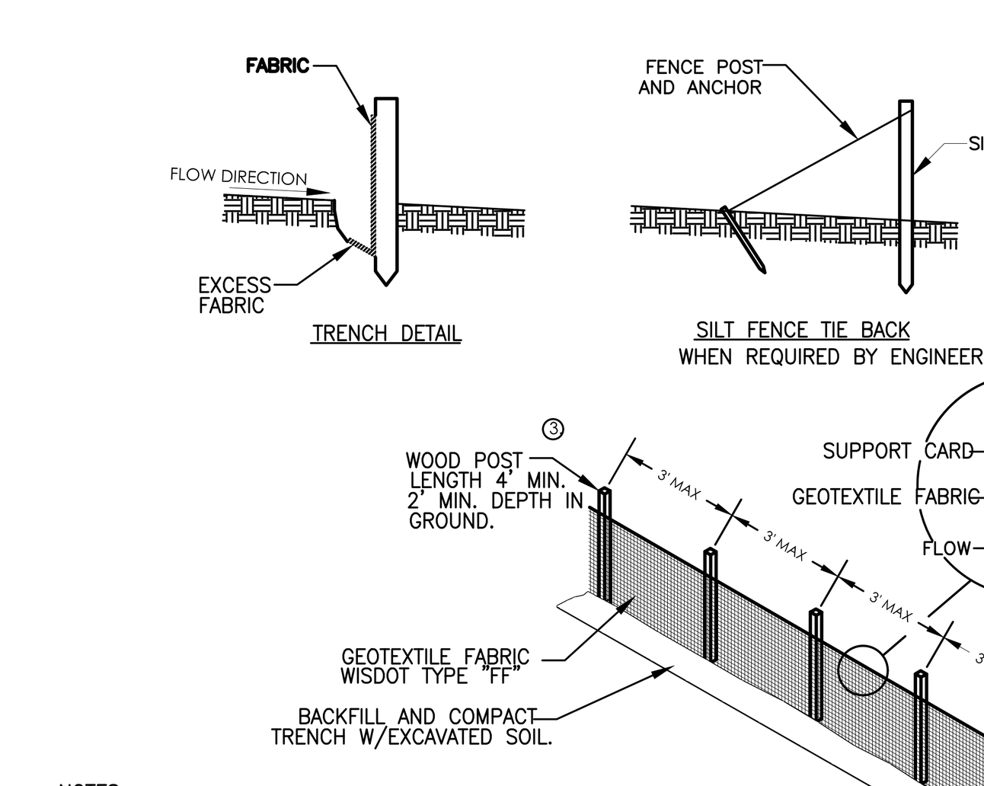
EROSION CONTROL SEQUENCING

1. INSTALL PERIMETER EROSION CONTROL
2. BEGIN DEMOLITION
3. BEGIN ROUGH GRADING AND UTILITY INSTALLATION
4. DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE REMOVED, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT.
5. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
6. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
7. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING. REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. IF TRACKING PAD IS FILLED WITH SEDIMENT REMOVE AND REPLACE COURSE AGGREGATE.

ROCK CONSTRUCTION ENTRANCE (1 / C102)



NOTES:
1. HORIZONTAL BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POST AS DIRECTED BY THE ENGINEER.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE BY 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL. NEXT, COMPACT THE TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM OF 1-1/8" x 1-1/8" IN SIZE AND BE MADE FROM OAK OR HICKORY.
4. ATTACH THE FABRIC TO THE POST WITH WIRE STAPLES OR WOODEN LATH AND NAILS.
5. WOOD POSTS SHALL MAINTAIN A 3' MAXIMUM SPACING WHEN USING STANDARD GEOTEXTILE FABRIC. WHEN WOVEN GEOTEXTILE FABRIC IS USED, THE WOOD POSTS MAY BE SPACED UP TO 8' APART.

SILT FENCE (2 / C102)

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DATE: 09-13-19
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SHEET NO: C102

OCCUPANT LOAD WORKSHEET

ROOM OR SPACE					OCCUPANT LOAD				ACCOUNTED FOR IN OTHER SPACES	NOTES
NUMBER	NAME	OCCUPANCY	AREA		DENSITY	CALCULATED	ACTUAL	COMBINED		
FIRST FLOOR										
101	LOBBY	NON OCCUPIED SPACE	377 SF	GROSS	0 SF	0	0	0	YES	1
102	CORR	NON OCCUPIED SPACE	132 SF	GROSS	0 SF	0	0	0	YES	
103	ALCOVE	NON OCCUPIED SPACE	39 SF	GROSS	0 SF	0	0	0	YES	1
104	GYM ENTRY	NON OCCUPIED SPACE	164 SF	GROSS	0 SF	0	0	0	YES	
106	FLEX SPACE	EDUCATIONAL - CLASSROOM	248 SF	NET	20 SF	13	13	0	NO	
106A	DATA	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	21 SF	GROSS	300 SF	1	0	0	YES	1
107	ALCOVE	NON OCCUPIED SPACE	34 SF	GROSS	0 SF	0	0	0	YES	1
108	TUTORING	EDUCATIONAL - CLASSROOM	89 SF	NET	20 SF	5	5	0	NO	
109	WAITING	BUSINESS AREAS	191 SF	GROSS	100 SF	2	0	0	YES	1
110	RECEPTION	BUSINESS AREAS	102 SF	GROSS	100 SF	2	1	0	NO	
110A	LIFT	NON OCCUPIED SPACE	24 SF	GROSS	0 SF	0	0	0	YES	1
112	CONF./PRIN.	BUSINESS AREAS	161 SF	GROSS	100 SF	2	6	0	NO	
113	HEALTH	BUSINESS AREAS	108 SF	GROSS	100 SF	2	2	0	NO	
117	ELECTRICAL	(none)								
120	JAN/STOR	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	165 SF	GROSS	300 SF	1	0	0	YES	1
T104	BOYS TLT	NON OCCUPIED SPACE	165 SF	GROSS	0 SF	0	0	0	YES	1
T105	GIRLS TLT	NON OCCUPIED SPACE	145 SF	GROSS	0 SF	0	0	0	YES	1
T111	TLT	NON OCCUPIED SPACE	46 SF	GROSS	0 SF	0	0	0	YES	1,2
T114	TLT	NON OCCUPIED SPACE	46 SF	GROSS	0 SF	0	0	0	YES	1,2
V100	VEST	NON OCCUPIED SPACE	69 SF	GROSS	0 SF	0	0	0	YES	1
TOTAL							27			

BUILDING OCCUPANT LOAD GENERAL NOTES:

A. "NET AREA DEDUCT" COLUMN SHOWS AREA DEDUCTIONS BASED ON FLOOR AREA OCCUPIED BY CASEWORK.
B. "OCCUPANT LOAD BY ACTUAL NUMBER" COLUMN SHOWS MAXIMUM CALCULATED OCCUPANCY LIMITS PER IBC 1004.1.1 OR OCCUPANCIES SET BY OWNER DEFINED CURRICULUM PER NOTE 2.
C. "OCCUPANT LOAD BY COMBINATION" COLUMN SHOWS TOTAL POSSIBLE OCCUPANTS EXITING THROUGH SPACES AND CORRIDORS ALONG PRIMARY EXIT PATH FOR LIFE SAFETY EGRESS, INCLUDING OCCUPANTS FROM ADJACENT ROOMS.
D. "OCCUPANTS ACCOUNTED FOR IN OTHER SPACES" COLUMN DENOTES ROOMS THAT ARE CONSIDERED UNOCCUPIED ACCESSORY SPACES. IF 'YES', OCCUPANTS ARE ACCOUNTED FOR IN OTHER AREAS. SEE NOTE 1.

BUILDING OCCUPANT LOAD WORKSHEET NOTES:

1. UNOCCUPIED ACCESSORY AREA PER 2015 IBC SECTION 202 DEFINITIONS FOR "FLOOR AREA, NET"
2. SINGLE USER TOILET ROOM.

EGRESS WIDTH WORKSHEET

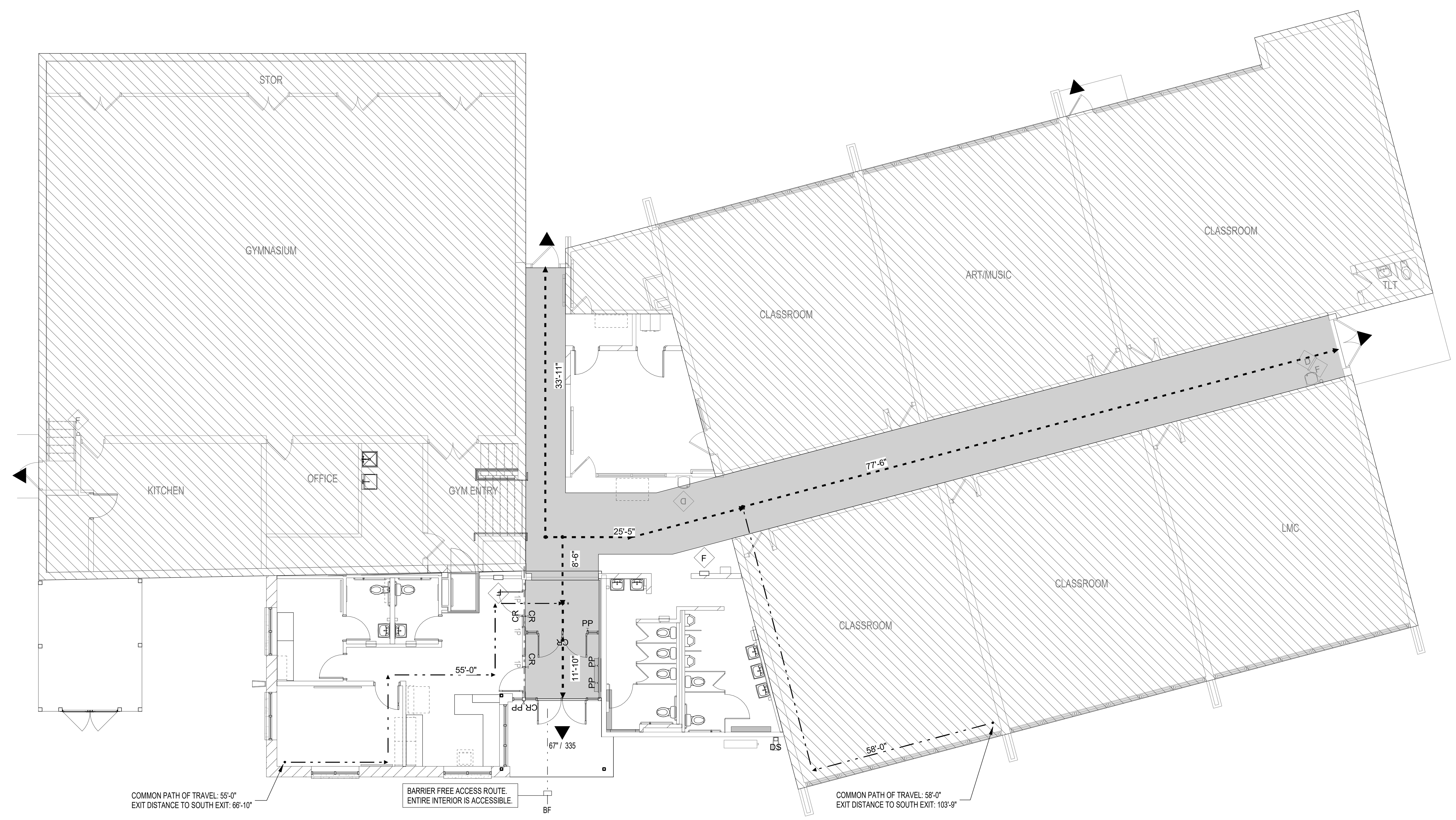
ROOM OR SPACE			CALCULATED OCCUPANT LOAD		STAIR			OTHER EGRESS COMPONENTS			NOTES
NUMBER	NAME	OCCUPANCY	BY AREA (IBC 1004.1.1)	MAX BY AGGREGATE WIDTH	WIDTH FACTOR	REQUIRED WIDTH	PROVIDED WIDTH	WIDTH FACTOR	REQUIRED WIDTH	PROVIDED WIDTH	
FIRST FLOOR											
101	LOBBY	NON OCCUPIED SPACE	0	335	0.3	0"	0"	0.2	0"	67"	-
102	CORR	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	
103	ALCOVE	NON OCCUPIED SPACE	0	360	0.3	0"	0"	0.2	0"	72"	-
104	GYM ENTRY	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	
106	FLEX SPACE	EDUCATIONAL - CLASSROOM	0	168	0.3	0"	0"	0.2	0"	33.5"	-
106A	DATA	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1	188	0.3	0.3"	0"	0.2	0.2"	37.5"	-
107	ALCOVE	NON OCCUPIED SPACE	0	240	0.3	0"	0"	0.2	0"	48"	-
108	TUTORING	EDUCATIONAL - CLASSROOM	0	138	0.3	0"	0"	0.2	0"	27.5"	-
109	WAITING	BUSINESS AREAS	2	335	0.3	0.6"	0"	0.2	0.4"	67"	-
110	RECEPTION	BUSINESS AREAS	2	168	0.3	0.6"	0"	0.2	0.4"	33.5"	-
110A	LIFT	NON OCCUPIED SPACE	0	0	0.3	0"	0"	0.2	0"	0"	-
112	CONF./PRIN.	BUSINESS AREAS	6	168	0.3	1.8"	0"	0.2	1.2"	33.5"	-
113	HEALTH	BUSINESS AREAS	0	168	0.3	0"	0"	0.2	0"	33.5"	-
117	ELECTRICAL	(none)			0.3			0.2			
120	JAN/STOR	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1	168	0.3	0.3"	0"	0.2	0.2"	33.5"	-
T104	BOYS TLT	NON OCCUPIED SPACE	0	230	0.3	0"	0"	0.2	0"	46"	-
T105	GIRLS TLT	NON OCCUPIED SPACE	0	230	0.3	0"	0"	0.2	0"	46"	-
T111	TLT	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	-
T114	TLT	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	-
V100	VEST	NON OCCUPIED SPACE	0	335	0.3	0"	0"	0.2	0"	67"	-
TOTAL			12			3.6"					

EGRESS WIDTH GENERAL NOTES:

A. A 36" DOOR WILL PROVIDE A NOMINAL MINIMUM CLEAR OPENING OF 33.5" AS DEFINED BY IBC SECTION 1008.1.1
B. A PAIR OF 36" DOORS PROVIDES A NOMINAL MINIMUM CLEAR WIDTH OF 67"

EGRESS WIDTH WORKSHEET NOTES:

1. NA



NORTH
FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY LEGEND

SYMBOLS

EXIT WIDTH / MAXIMUM OCCUPANTS SERVED AT EXIT	33.5" / 167 ▲
EXTERIOR EXIT DOOR / EXIT STAIR	
COMMON PATH OF EGRESS TRAVEL (FEET)	XX
BARRIER-FREE ACCESS ROUTE	
POINT IN WHICH 2 EXITS BECOME AVAILABLE	*
FIRE EXTINGUISHER/CABINET	F
DRINKING FOUNTAIN	D
EGRESS CORRIDORS	
EXISTING OCCUPANT LOAD/ EXITS NOT AFFECTED	

CODE ANALYSIS

APPLICABLE CODES AND ZONING
2018 WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366)
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL BUILDING CODE
EDUCATIONAL OCCUPANCY, GROUP E
BUSINESS OCCUPANCY, GROUP B

ZONING: TOWN OF JANESVILLE WI ORDINANCES

CLASS OF CONSTRUCTION
ADDITION AND ALTERATION
TYPE OF CONSTRUCTION, UNPROTECTED, TYPE IIB - NON-SPRINKLERED

FIRE RESISTANCE RATING FOR BUILDING ELEMENTS

PRIMARY STRUCTURAL FRAME	0 HR	TABLE 601
BEARING WALLS:		
EXTERIOR	0 HR	TABLE 601
INTERIOR	0 HR	TABLE 601
NON-BEARING WALLS:		
EXTERIOR	SEE BELOW	TABLE 601
INTERIOR	SEE BELOW	TABLE 601
FLOOR CONSTRUCTION	0 HR	TABLE 601
ROOF CONSTRUCTION	0 HR	TABLE 601
ROOF CLASSIFICATION	TYPE C	1505.1
FIRE ENCLOSURE (STAIRS, ELEVATOR, SHAFTS)	1 HR	1023.2
CORRIDOR WALLS	1 HR	TABLE 1020.1

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS
BASED ON FIRE SEPARATION DISTANCE (TABLE 602)

<5':	1 HR.
>5' & <10':	1 HR.
>10' & <30':	0 HR.
>30'	0 HR.

FIRE PROTECTION
FIRE ALARM SYSTEM
AUTOMATIC FIRE DETECTION SYSTEM

EXIT EGRESS

EXIT AISLES SERVING MEP EQUIPMENT:
24"

-DEAD END CORRIDORS (NON SPRINKLERED):
20' MAX.

COMMON PATH OF TRAVEL:
75' MAX.

MAXIMUM TRAVEL DISTANCE TO AN EXIT:
200' MAX. FROM THE REMOTEST POINT IN A ROOM

ADA ACCESS ROUTE
REFER TO SHEET A050

SUMMARY OF CODE REVIEW INFORMATION

- [ ] MULTIPLE OCCUPANCIES WORKSHEET (N/A)
- [X] ALLOWABLE AREAS CALCULATIONS
- [X] OCCUPANT LOAD WORKSHEETS
- [X] EGRESS WIDTH WORKSHEETS
- [X] FIRE APPARATUS AND FIRE LANE WORKSHEET
- [X] SANITARY FIXTURE DETERMINATION WORKSHEETS
- [ ] CONTROL AREA (N/A) - (NO HAZARDOUS MATERIAL STORED OR USED IN THIS BUILDING)
- [ ] EXTERIOR WALL OPENING WORKSHEET (N/A)
- [ ] GRADE PLANE DETERMINATION WORKSHEET (N/A) - GRADE IS LEVEL AT BUILDING PERIMETER AND NO FLOORS ARE LOCATED 50% BELOW GRADE.
- [ ] DETERMINATION OF NUMBER OF STORIES ABOVE GRADE PLANE (N/A) - EDUCATION OCCUPANCIES ARE 2 STORIES ABOVE GRADE PLANE.

LATERAL SYSTEMS AND CONNECTION WORKSHEET - SEE STRUCTURAL DRAWINGS AND CALCULATIONS.

STRUCTURAL DESIGN WORKSHEET - SEE STRUCTURAL DRAWINGS AND CALCULATIONS.

HVAC CALCULATIONS - SEE MECHANICAL DRAWINGS AND CALCULATIONS.

ALLOWABLE AREA CALCULATION:

$A_a = A_t + (NS \times I_f)$
Aa ALLOWABLE AREA PER STORY (SF)
At TABULAR AREA PER STORY (IN ACCORDANCE WITH TABLE 506.2)
NS TABULAR AREA FACTOR NON SPRINKLERED PER STORY (IN ACCORDANCE WITH TABLE 506.2)
If AREA FACTOR INCREASE DUE TO FRONTAGE (PERCENT) (IN ACCORDANCE TO SECTION 506.3)

FRONTAGE INCREASE FACTOR CALCULATION:
$I_f = (F/P - 0.25) \times W / 30$
F BUILDING PERIMETER THAT FRONTS A PUBLIC WAY WITH 20'-0" MIN WIDTH
P TOTAL PERIMETER OF BUILDING
W WIDTH OF PUBLIC WAY OR OPEN SPACE (506.2.1)

***TYPE IIB CONSTRUCTION**

GROUP - E	BUILDING A - 12,192 SF
At = 14,500	GROUP E - TYPE IIB
NS = 14,500	(ALLOWABLE AREA = 25,375 SF)
P = 601'	(14,500+[14,500x0.75]) = 25,375 SF)
F = 601'	(0.75 = [601/601 - 0.25]x30/30)
W = 30	

REQUIRED PLUMBING FIXTURES

WOMEN	REQUIRED		EXISTING TO REMAIN	PROPOSED	TOTAL	NOTES
W.C.	1 PER 50	2	1	6	7	3,4
LAVS	1 PER 50	2	1	3	4	3,4

MEN	REQUIRED		EXISTING TO REMAIN	PROPOSED	TOTAL	NOTES
W.C.	1 PER 50	2	0	3	3	4
URINALS			0	3	3	5,6
LAVS	1 PER 50	2	0	3	3	4

	REQUIRED		EXISTING TO REMAIN	PROPOSED	TOTAL	NOTES
DRINKING FOUNTAINS	1 PER 100	2	2	0	2	

NOTES:
1. REFER TO IBC TABLE 2902.1 FOR MINIMUM NUMBER OF REQUIRED FIXTURES.
2. NUMBER OF FIXTURES BASED ON ACTUAL OCCUPANT LOAD OF 105. 53 TOTAL OCCUPANTS EACH GENDER. TOTALS BASED ON MAXIMUM ENROLLMENT NUMBERS
3. (1) SINGLE USER EXISTING TO REMAIN WATER CLOSET AND LAVATORY COUNTED TOWARD WOMEN.
4. (1) SINGLE USER PROPOSED WATER CLOSET AND LAVATORY COUNTED TOWARD WOMEN AND (1) TOWARD MEN.
5. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF REQUIRED WATER CLOSETS; PER 2009 INTERNATIONAL PLUMBING CODE SECTION 419.2
6. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF REQUIRED WATER CLOSETS; PER WISCONSIN ADMINISTRATIVE CODE SPS 362.2902 (1) (A) EXCEPTION 1 IN GROUP E.

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SCHOOL DISTRICT OF MILTON CONSOLIDATED - ADDITION & RENOVATION

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REVISIONS:

CODE WORKSHEETS/PLANS

CONSTRUCTION DOCUMENTS	
BID PACKAGE:	
DATE:	09-13-19
JOB NO:	190106-06
SHEET NO:	A050

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DEMOLITION PLAN - SYMBOLS LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW / EXISTING TRANSITION (NEW | EXIST)
- EXISTING ITEM TO REMAIN
- EXISTING ITEM TO BE REMOVED
- DEMOLITION PLAN KEYNOTE
- CONSTRUCTION LIMITS

DEMOLITION PLAN - GENERAL NOTES

A. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.

B. VERIFY EXACT COMPOSITION OF EXISTING WALLS TO BE REMOVED.

C. REMOVE FLOOR FINISHES, INCLUDING SETTING BED IN CERAMIC TILE AREAS, WHERE NEW FLOORING IS INDICATED IN ROOM FINISH SCHEDULE.

D. REMOVE SUSPENDED CEILINGS AND RELATED HANGERS, OR GYPSUM BOARD/ PLASTER CEILINGS WHERE NEW CEILINGS ARE INDICATED ON REFLECTED CEILING PLAN OR ROOM FINISH SCHEDULE.

E. REMOVE ALL COLUMN FINISHES, INCLUDING GYPSUM BOARD AND FURRINGS, FROM EXISTING STRUCTURAL COLUMNS.

F. REMOVE ALL INTERIOR AND WALL MOUNTED ITEMS IN AREAS TO BE REMODELED (REFER TO ROOM FINISH SCHEDULE) INCLUDING BUT NOT LIMITED TO, CABINETRY, EQUIPMENT, LOCKERS, TOILET PARTITIONS, SHELVING, HOOK STRIPS, HANDRAILS, CLOSET POLES, CHALK AND TACK BOARDS, MIRRORS, WALL AND CEILING TRIM, BASE.

G. REFER TO PLUMBING, HVAC AND ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION ITEMS AND NOTES. COORDINATE WORK WITH PLUMBING, HVAC AND ELECTRICAL REQUIREMENTS.

H. COORDINATE DEMOLITION OF LOAD BEARING WALLS WITH STRUCTURAL PLANS.

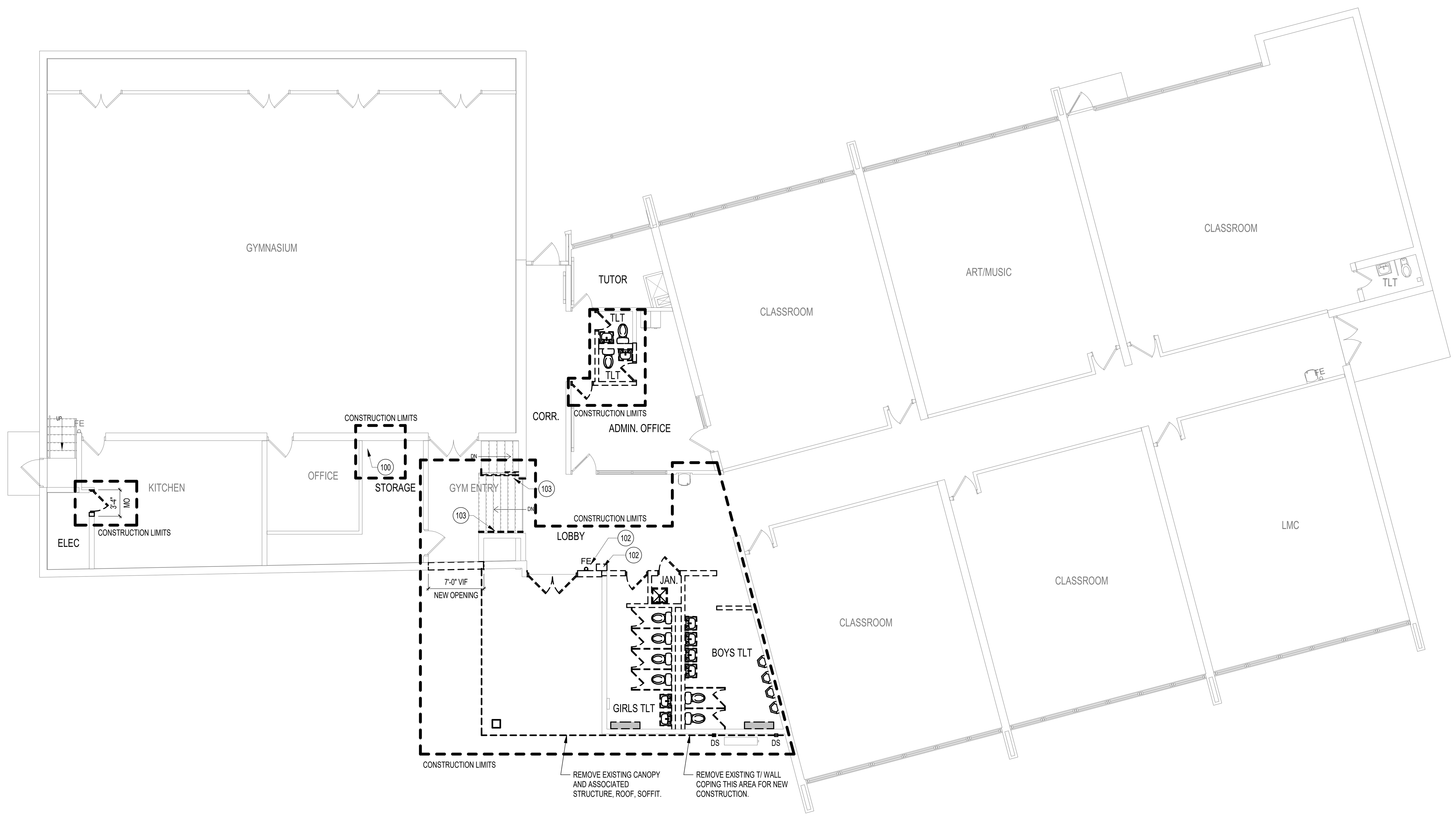
I. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.

J. CONSTRUCT A DUST-PROOF PARTITION TO SEPARATE AREAS OF CONSTRUCTION FROM ADJACENT OCCUPIED AREAS OUTSIDE SCOPE OF CONSTRUCTION. REFER TO DETAIL B1 / A810

K. RETURN ALL WALL MOUNTED TOILET ROOM ACCESSORIES TO OWNER.

DEMOLITION PLAN NOTES

NOTE #	DEMOLITION PLAN NOTE
100	PREP AREA FOR NEW MOP SINK
102	REMOVE FE CABINET AND AED AND RETURN TO OWNER
103	REMOVE RAILING AND ACCESSORIES. PATCH AREA FOR NEW RAILING SYSTEM



NORTH

FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

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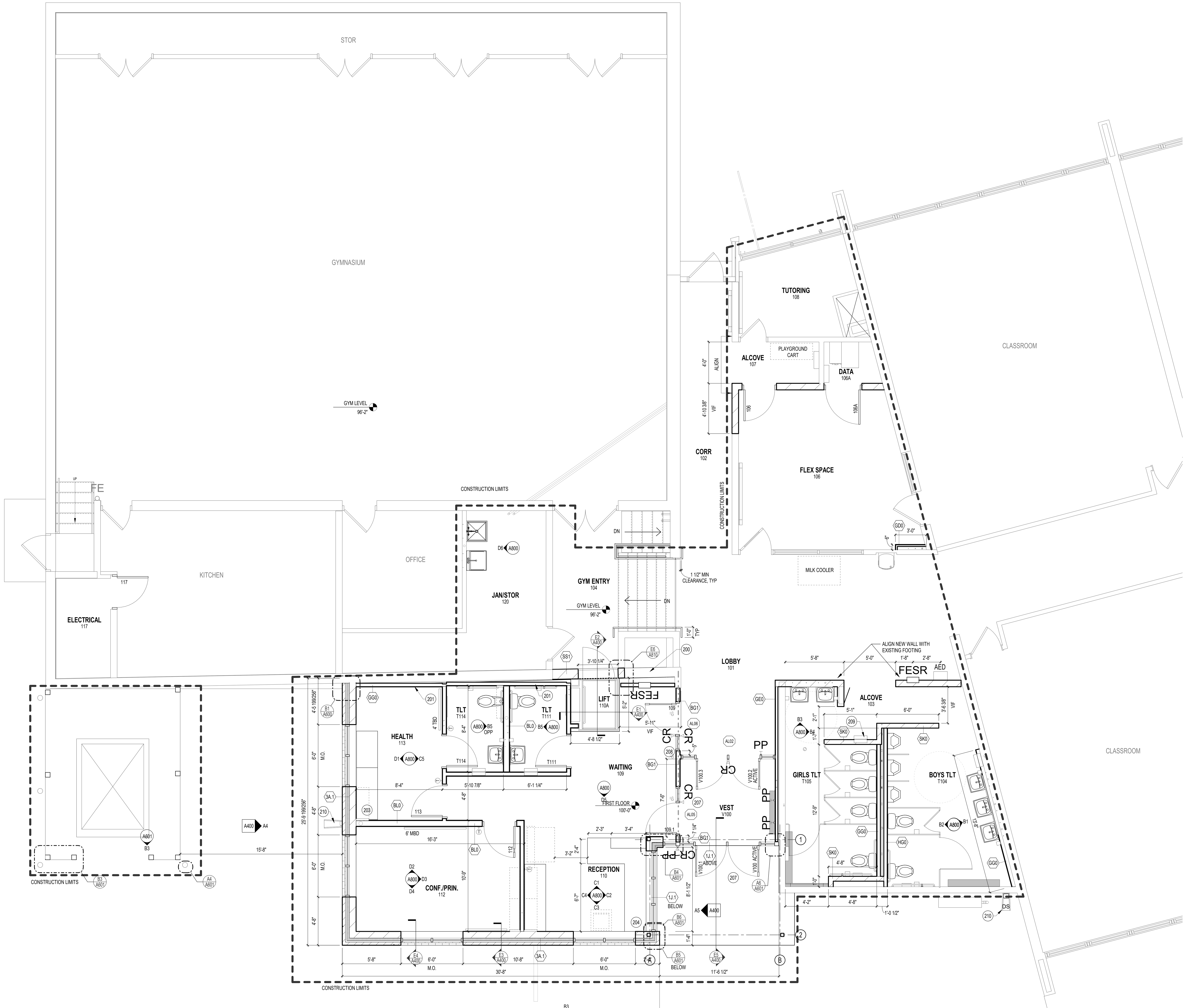


FIRST FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN SYMBOLS LEGEND

- EXISTING WALLS TO REMAIN
- EXISTING DOOR TO REMAIN
- SECTION REFERENCE
- EXTERIOR ELEVATION
- INTERIOR ELEVATION
- FLOOR PLAN NOTE
- CONSTRUCTION LIMITS
- ONE HOUR RATED FIRE PARTITION
- TWO HOUR RATED FIRE BARRIER
- NEW WALL/PARTITION
- NEW DOOR
- EXISTING DOOR RECEIVING NEW WORK - REFER TO DOOR SCHEDULE
- DETAIL REFERENCE
- EQUIPMENT
- WINDOW TYPE
- WALL/PARTITION TYPE
- FLOOR DRAIN - PITCH FLOOR TO DRAIN
- SEMI-RECESSED FIRE EXTINGUISHER

FLOOR PLAN GENERAL NOTES

A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).

B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.

C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.

D. CONTRACTOR TO VERIFY FLOOR TO FLOOR HEIGHTS

FLOOR PLAN NOTES

NOTE #	FLOOR PLAN NOTE
200	INFILL WINDOW OPENING TO MATCH ADJACENT BRICK
201	RUN NEW FURRING WALL PERPENDICULAR WITH NEW CONSTRUCTION COVERING ANGLED WALL.
202	NOT USED
203	UNDERCOUNTER FRIDGE
204	UNDERCOUNTER SAFE
207	CAMERA AND BUZZER
208	BUZZER, COORDINATE EXACT LOCATION WITH OWNER
209	PAPER TOWEL DISPENSER, BY OWNER
210	SPLASH BLOCK

EXTERIOR WALL TYPE SCHEDULE

MARK	ASSEMBLY DESCRIPTION
1J.1	PANEL WALL SYSTEM CONSISTING OF 1-1/2" METAL PANEL, 7/8" HAT CHANNEL , 3" RIGID INSULATION, SPRAY APPLIED AIR/VAPOR BARRIER SYSTEM ON 5/8" GYPSUM SHEATHING, 6" 16 GA (EDIT FOR THICKNESS AND GAUGE) GALVANIZED COLD FORMED STEEL STUDS @ 16" OC AND ONE LAYER 5/8" GYPSUM BOARD @ INTERIOR FACE.
1J.2	PANEL WALL SYSTEM CONSISTING OF 1-1/2" METAL PANEL, 7/8" HAT CHANNEL, SPRAY APPLIED AIR/VAPOR BARRIER SYSTEM ON 5/8" GYPSUM SHEATHING, 6" 16 GA GALVANIZED COLD FORMED STEEL STUDS @ 16" OC AND ONE LAYER 5/8" GYPSUM SHEATHING, WITH EPDM MEMBRANE
1J.3	PANEL WALL SYSTEM CONSISTING OF 1-1/2" METAL PANEL, 7/8" HAT CHANNEL, SPRAY APPLIED AIR/VAPOR BARRIER SYSTEM ON 5/8" GYPSUM SHEATHING, 6" 16 GA GALVANIZED COLD FORMED STEEL STUDS @ 16" OC
3A.1	MASONRY CAVITY WALL CONSISTING OF 4" FACE BRICK, 1-3/4" AIR SPACE, 3" RIGID INSULATION, SPRAY APPLIED AIR AND VAPOR BARRIER SYSTEM ON 8" CONCRETE MASONRY UNIT BACK-UP WALL WITH ADJUSTABLE (TWO-PIECE) HORIZONTAL MASONRY JOINT REINFORCING @ 16" OC (REFER TO STRUCTURAL DRAWINGS FOR REQUIRED VERTICAL REINFORCING). PROVIDE CAVITY DRAINAGE MATERIAL, FLASHING, CAVITY WEEPS/VENTS @ 24" OC AND MASONRY EXPANSION AND CONTROL JOINTS. COMPARTMENTALIZE THE CAVITY AND PROVIDE CAVITY WEEPS/VENTS AT TOP/BOTTOM OF CAVITY. REFER TO DETAIL B2/A600.
3L.1	EPDM ON, 5/8" GYPSUM SHEATHING ON, 1" RIGID INSULATION, SPRAY APPLIED AIR AND VAPOR BARRIER SYSTEM ON 8" CONCRETE MASONRY UNIT BACK-UP WALL FILL CAVITY W/ INSULATION WITH ADJUSTABLE (TWO-PIECE) HORIZONTAL MASONRY JOINT REINFORCING @ 16" OC (REFER TO STRUCTURAL DRAWINGS FOR REQUIRED VERTICAL REINFORCING).

INTERIOR PARTITION SCHEDULE

MARK	ASSEMBLY DESCRIPTION	FIRE RATING	UL	INSULATION	STC
BG0	3-5/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE.	-		3-1/2" SOUND	--
BG1	3-5/8" STEEL STUDS @ 16" OC 1 LAYERS 5/8" GYPSUM BOARD @ EACH FACE.	1 HR	U407	FULL THICKNESS BATT INSULATION	--
BL0	6" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE.	-		FULL WIDTH SOUND	--
GD0	1-5/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD.	-		--	--
GE0	2-1/2" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD.	-		--	--
GG0	3-5/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD.	-		--	--
HG0	3-5/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD.	-		FULL WIDTH SOUND	--
SK0	6" CONCRETE BLOCK.	-		--	--
SN0	8" CONCRETE BLOCK.	-		--	--
SS1	12" CONCRETE BLOCK.	1 HR		--	--

GYPSUM BOARD PARTITIONS GENERAL NOTES

A. ALL GYPSUM BOARD PARTITIONS SHALL BE BG0 UNLESS OTHERWISE NOTED ON FLOOR PLAN.

B. GYPSUM BOARD PARTITION DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED PARTITION TO FACE OF FINISHED PARTITION (NOMINAL).

C. REFER TO GYPSUM BOARD SPECIFICATION FOR LOCATION AND TYPE(S) OF GYPSUM BOARD MATERIAL REQUIRED.

D. PROVIDE FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS.

E. SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS.

F. EXTEND ALL GYPSUM BOARD PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE. AT METAL DECK CONSTRUCTION ABOVE PROVIDE SLIP JOINT BETWEEN TOP OF PARTITION AND UNDERSIDE OF METAL DECK / STRUCTURAL STEEL MEMBER ABOVE. REFER TO DETAIL B2 / A810

MASONRY PARTITIONS GENERAL NOTES

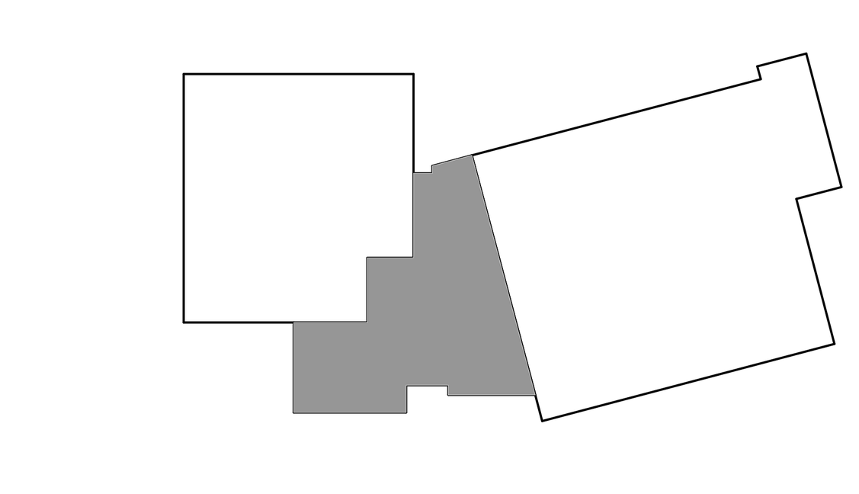
A. MASONRY PARTITIONS INDICATED WITH THE FOLLOWING HATCH PATTERN:

B. ALL MASONRY PARTITIONS SHALL BE 8" CONCRETE BLOCK UNLESS OTHERWISE NOTED OR DIMENSIONED. REFER TO FLOOR PLAN FOR PARTITION THICKNESS.

C. PROVIDE UL RATED CONCRETE BLOCK AT ALL FIRE RATED PARTITIONS.

D. SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL RATED PARTITIONS.

E. EXTEND CONCRETE BLOCK PARTITIONS FULL HEIGHT TO UNDERSIDE OF PRECAST PLANK ABOVE. REFER TO DETAIL B4 / A810 PROVIDE HORIZONTAL MASONRY JOINT REINFORCEMENT AT 16" OC VERTICALLY. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCEMENT REQUIREMENTS.



KEY PLAN

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ROOF PLAN SYMBOLS LEGEND

- 1/4" / 12" — DIRECTION OF STRUCTURAL SLOPE TO DRAIN
- 1/4" / 12" — DIRECTION OF INSULATION TAPER SLOPE TO DRAIN.
- 1 / A101 — DETAIL REFERENCE
- TAPERED INSULATION VALLEY OR RIDGE
- RD/OD — ROOF DRAIN / OVERFLOW DRAIN
- +X" — TAPERED INSULATION THICKNESS
- LOCATION OF CONCRETE PAVER WALKWAY
- ? — ROOF PLAN NOTE
- CONSTRUCTION LIMITS

ROOF PLAN GENERAL NOTES

A. COORDINATE AND VERIFY ALL ROOF OPENINGS AND PENETRATIONS WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL REQUIREMENTS.

B. PROVIDE WATER TIGHT INTEGRITY AT ALL PENETRATIONS AND EQUIPMENT PER ROOFING MANUFACTURERS STANDARD DETAILS AND REQUIREMENTS FOR WARRANTY AND CURRENT NRCA STANDARDS.

C. PROVIDE POSITIVE ROOF DRAINAGE INCLUDING TAPERED INSULATION LAYOUT. PROVIDE SADDLES AND CRICKETS AT ALL ROOF TOP EQUIPMENT AND PENETRATIONS TO ENSURE POSITIVE DRAINAGE.

D. PROVIDE 24" WIDE CONCRETE PAVER FROM ROOF SCUTTLE TO ALL MECHANICAL ROOFTOP UNITS AND ALL ROOF ACCESS LADDERS. PROVIDE PAVERS AROUND PERIMETER OF ROOF SCUTTLE AND HVAC ROOFTOP UNITS. PROVIDE PAVERS AT LANDINGS BELOW ROOF ACCESS LADDERS.

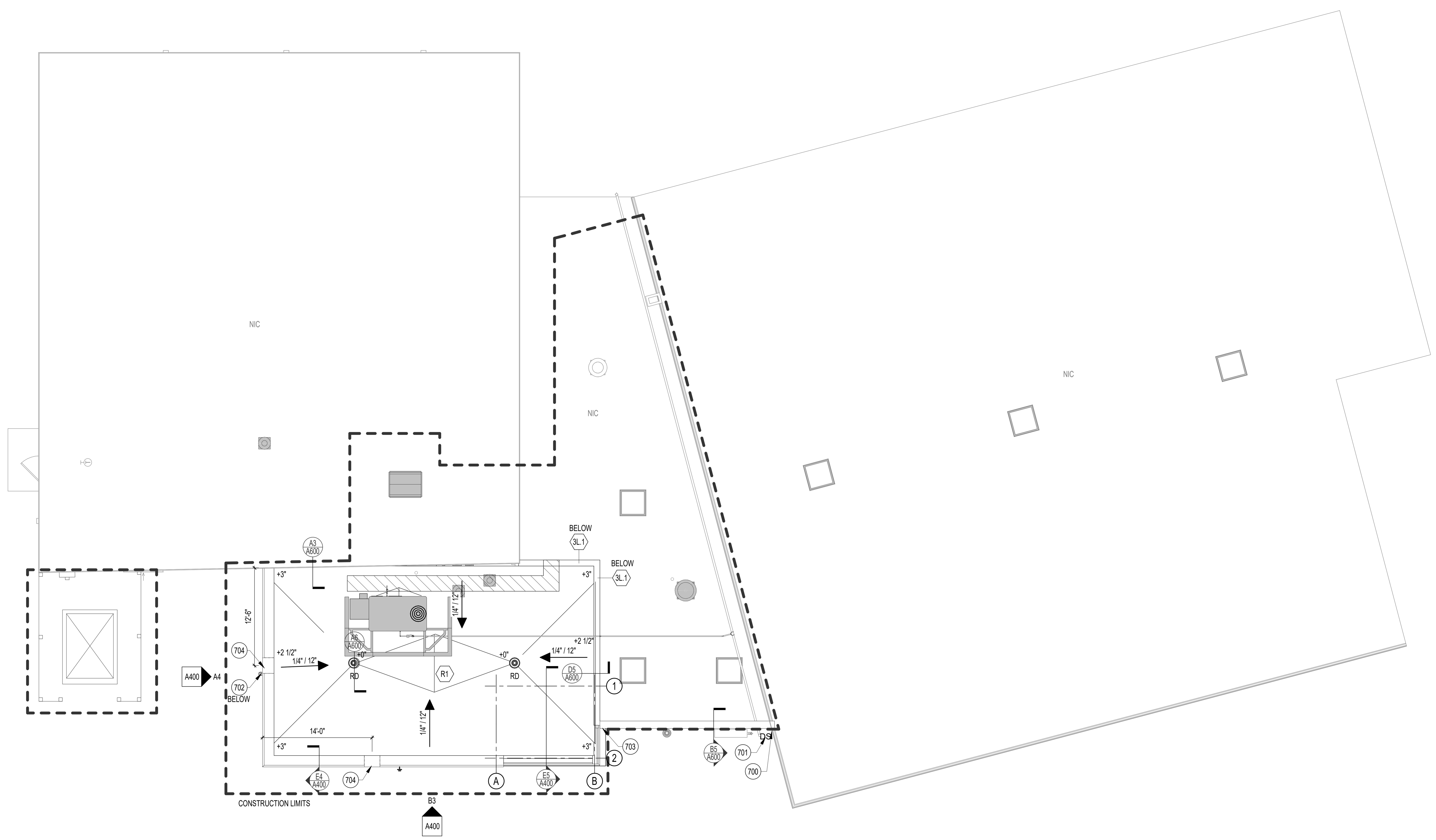
E. MINIMUM ALLOWABLE INSULATION TAPER SLOPE SHALL BE 1/4" PER FOOT UNLESS NOTED OTHERWISE

ROOF PLAN NOTES

NOTE #	ROOF PLAN NOTE
700	REMOVE/PATCH AND REPAIR EXISTING EXTERIOR WALL AND COPING
701	SCUPPER BOX AND DOWNSPOUT TO SPLASH BLOCK
702	LAMBS TONGUE DRAIN TO SPLASH BLOCK
703	TIE IN COPING AND GRAVEL STOP
704	OVERFLOW SCUPPER

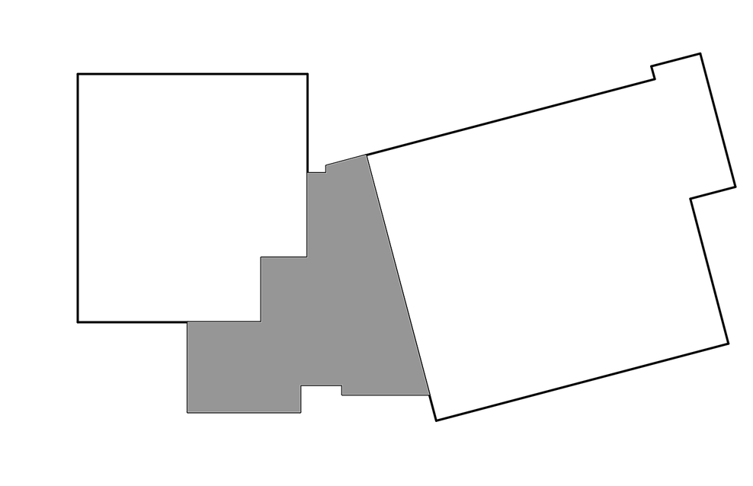
CONSTRUCTION TYPES

TAG	CONSTRUCTION DESCRIPTION
C1A	2X2 LAY-IN CEILING PANELS IN EXPOSED GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE.
C14	EXTERIOR SOFFIT: METAL SOFFIT PANEL SYSTEM (25" PERFORATED) ON METAL ZEE FURRING. BASIS OF DESIGN PAC-CLAD 'FLUSH' SOFFIT PANELS.
E2	ALUMINUM STOREFRONT SYSTEM WITH INSULATING GLASS.
E3	ALUMINUM ENTRANCE SYSTEM WITH TEMPERED INSULATING GLASS 1/4" TEMPERED GLASS IN DOORS.
G1	METAL FASCIA SYSTEM: METAL GRAVEL STOP ON 2x WOOD BLOCKING
G1A	METAL FASCIA SYSTEM: METAL FASCIA ROOF DRAIN OVERFLOW RELIEF
G2	METAL COPING SYSTEM: METAL COPING ON 2x WOOD BLOCKING
J1	PRECAST CONCRETE SILL. SEE DETAIL E2/A600 FOR PROFILE.
R1	SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST PROTECTIVE MAT ON RIGID INSULATION (MIN=R-30) (ON VAPOR RETARDER) ON 5/8" EXTERIOR SHEATHING ON METAL DECKING.
S1	REINFORCED CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL.



NORTH

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



KEY PLAN

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REVISIONS:

ROOF PLAN

CONSTRUCTION DOCUMENTS
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SHEET NO: A220

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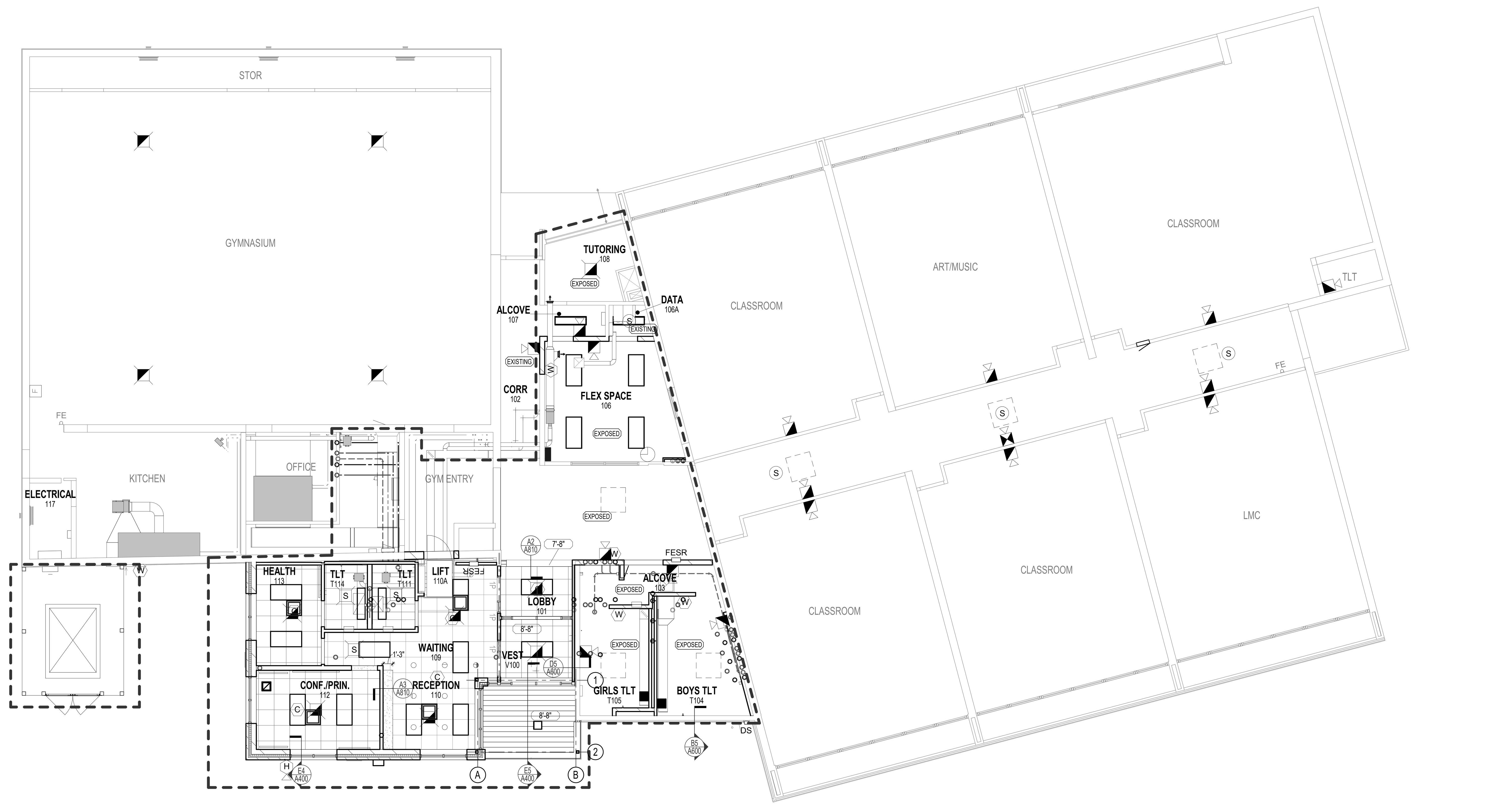
B2 FIRST FLOOR PATTERN PLAN
1/8" = 1'-0"



E2 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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FLOOR PATTERN PLAN - SYMBOLS LEGEND

- FLOOR PATTERN/GRAIN DIRECTION
- PT-1 — ACCENT PAINT/SPECIALTY FINISH EXTENTS
- CG — CORNER GUARD - SURFACE APPLIED
- CONSTRUCTION LIMITS
- WT — WALL TILE EXTENTS

FLOOR PATTERN PLAN - GENERAL NOTES

A. PRIOR TO FLOORING INSTALLATION, SCHEDULE A PRE-INSTALLATION CONFERENCE ON SITE WITH INTERIOR DESIGNER TO COORDINATE FLOORING LAYOUT.

B. PROVIDE A FLUSH TRANSITION BETWEEN FLOORING MATERIALS OF VARYING HEIGHTS. PROVIDE FEATHERING OF LEVELING COMPOUND OR SUBFLOOR LEVELING STRIPS BY JOHNSONITE AS NECESSARY.

C. PROVIDE A FLUSH TRANSITION BETWEEN FLOORING MATERIALS OF VARYING HEIGHTS. PROVIDE TRANSITION STRIPS AND REDUCERS AS NECESSARY. PRIOR TO FLOORING INSTALLATION, SUBMIT SAMPLES OF PROFILE TO INTERIOR DESIGNER FOR APPROVAL AND COLOR SELECTION.

D. CARPET C-1 TO BE INSTALLED IN AN ASHLAR INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO FLOOR PATTERN PLAN FOR PATTERN INSTALLATION DIRECTION.

E. CARPET C-2 TO BE INSTALLED IN A NON DIRECTIONAL INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO FLOOR PATTERN PLAN FOR PATTERN INSTALLATION DIRECTION.

F. AT AREAS WHERE TILE IS SCHEDULED TO CONTINUE UP ON TO THE WALL FROM THE FLOOR, GROUT LINES BETWEEN FLOOR AND WALL TILES ARE TO ALIGN, UNLESS OTHERWISE NOTED.

G. PROVIDE RESILIENT BASE WITH A COVE PROFILE AT HARD SURFACE FLOORING AND A STRAIGHT PROFILE AT CARPET.

H. PROVIDE GROUT GR-1 WITH PORCELAIN TILE PT-1,2,3 AND GR-2 WITH WITH CERAMIC TILE CT-1,2,3.

I. AT AREAS WHERE FLOORING IS INDICATED TO ALIGN WITH AN ARCHITECTURAL ELEMENT SUCH AS COLUMN OR PILASTER, ETC., EDGE OF FLOORING TO ALIGN WITH EDGE OF FINISHED INSTALLED BASE.

J. CARPET VT-1 TO BE INSTALLED IN A 1/3 OFFSET INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO FLOOR PATTERN PLAN FOR PATTERN INSTALLATION DIRECTION.

REFLECTED CEILING PLAN SYMBOLS LEGEND

- 2'-0" x 2'-0" SUSPENDED EXPOSED GRID ACOUSTIC CEILING TILE
- GYPSUM BOARD CEILING OR BULKHEAD
- 1/A101 — DETAIL REFERENCE
- 8' - 0" — CEILING HEIGHT
- REFLECTED CEILING PLAN NOTE
- CONSTRUCTION LIMITS
- 1P 1P — ONE HOUR RATED FIRE PARTITION

REFLECTED CEILING PLAN GENERAL NOTES

A. PERIMETER CEILING TILES SHALL NOT BE LESS THAN 4".

B. LOCATE ALL SPRINKLER HEADS, SMOKE DETECTORS, AUDIO SPEAKERS, HEAT SENSORS IN THE CENTER OF CEILING TILE (OR IN THE CENTER OF THE RAISED/RECESSED FIELD OF A PATTERNED TILE).

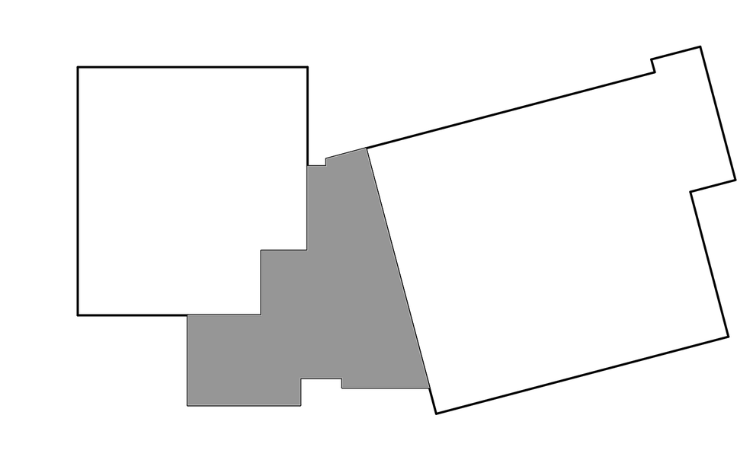
C. REMOVE EXISTING CEILING SYSTEM WHERE NEW WALLS PENETRATE EXISTING CEILING SYSTEMS TO REMAIN. PATCH TO MATCH EXISTING CEILING SYSTEM TO NEW WALL.

D. CEILING HEIGHTS SHALL BE 8'-6" UNLESS NOTED OTHERWISE ON THE REFLECTED CEILING PLANS.

E. MEP CEILING MOUNTED EQUIPMENT IS SHOWN FOR REFERENCE ONLY. REFER TO MEP DRAWINGS FOR SPECIFIC SYMBOLS AND LEGENDS.

CONSTRUCTION TYPES

TAG	CONSTRUCTION DESCRIPTION
C1A	2X2 LAY-IN CEILING PANELS IN EXPOSED GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE.
C14	EXTERIOR SOFFIT: METAL SOFFIT PANEL SYSTEM (25" PERFORATED) ON METAL ZEE FURRING. BASIS OF DESIGN PAC-CLAD 'FLUSH' SOFFIT PANELS.
E2	ALUMINUM STOREFRONT SYSTEM WITH INSULATING GLASS.
E3	ALUMINUM ENTRANCE SYSTEM WITH TEMPERED INSULATING GLASS 1/4" TEMPERED GLASS IN DOORS.
G1	METAL FASCIA SYSTEM: METAL GRAVEL STOP ON 2x WOOD BLOCKING
G1A	METAL FASCIA SYSTEM: METAL FASCIA ROOF DRAIN OVERFLOW RELIEF
G2	METAL COPING SYSTEM: METAL COPING ON 2x WOOD BLOCKING
J1	PRECAST CONCRETE SILL. SEE DETAIL E2/A600 FOR PROFILE.
R1	SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST PROTECTIVE MAT ON RIGID INSULATION (MIN=R-30) (ON VAPOR RETARDER) ON 5/8" EXTERIOR SHEATHING ON METAL DECKING.
S1	REINFORCED CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL.



KEY PLAN

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REVISIONS:

REFLECTED CEILING PLAN AND FLOOR PATTERN PLAN

CONSTRUCTION DOCUMENTS
BID PACKAGE:
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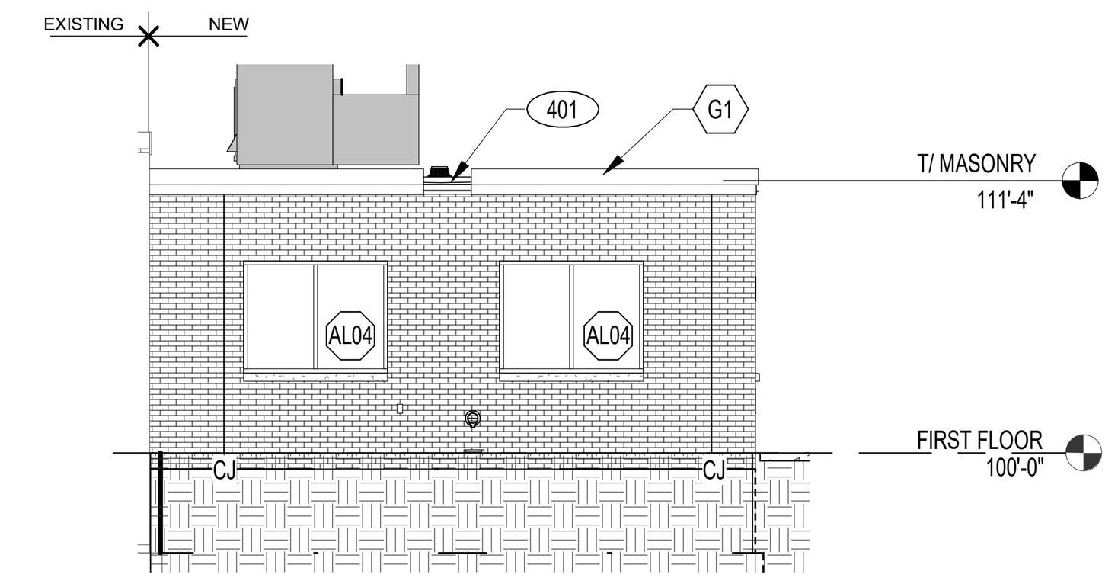
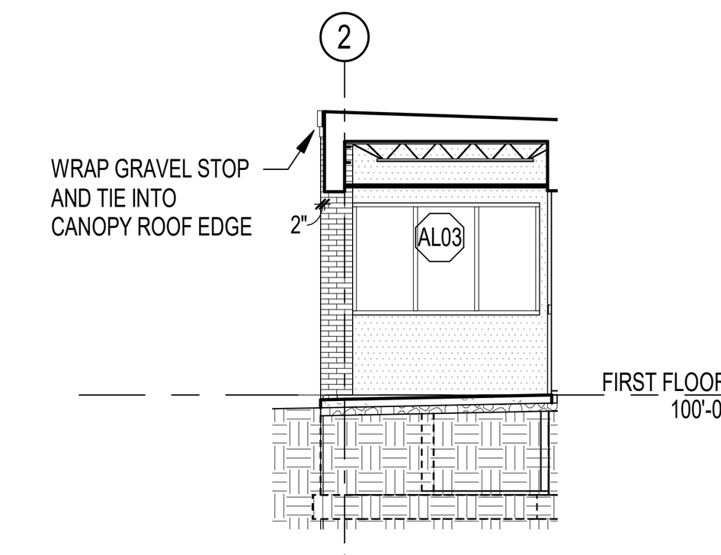
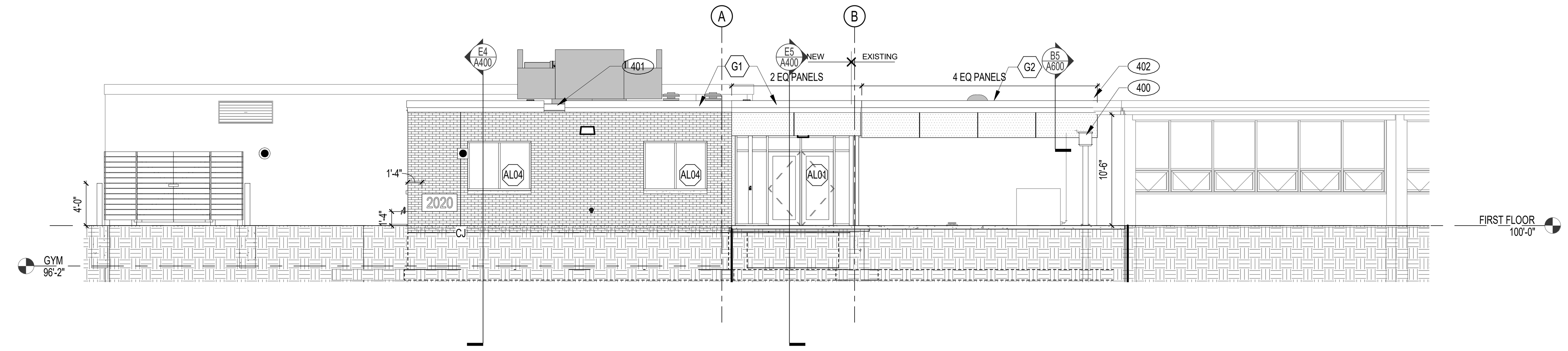
SHEET NO: A300



A4 **WEST ELEVATION**
1/8" = 1'-0"



A5 **EAST ELEVATION**
1/8" = 1'-0"



B3 **SOUTH ELEVATION**
1/8" = 1'-0"

EXTERIOR ELEVATIONS SYMBOLS LEGEND

- SECTION REFERENCE
- DETAIL REFERENCE
- ELEVATION NOTE
- WINDOW TYPE
- CONSTRUCTION KEYNOTE

EXTERIOR FINISH PATTERNS

- BRICK
- METAL PANEL

EXTERIOR ELEVATIONS GENERAL NOTES

A. PAINT ALL EXPOSED STEEL LINTELS TO MATCH ADJACENT MASONRY COLOR

B. TRIM ALL EXTERIOR LIGHTING FIXTURES, OUTLETS, HOSE BIBBS AND ALL OTHER SIDING PENETRATIONS WITH 1X4 FIBER CEMENT TRIM (TYP.)

C. REFER TO SHEET A890 FOR WINDOW FRAME ELEVATIONS

D. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES.

EXTERIOR ELEVATION NOTES

NOTE #	EXTERIOR ELEVATION NOTE
400	WALL SCUPPER AND DOWNSPOUT
401	DRAIN OVERFLOW RELIEF
402	FIELD VERIFY EXACT HEIGHT AND COORDINATE TO ALIGN WITH NEW. GC TO COORDINATE WITH ARCHITECT

CONSTRUCTION TYPES

TAG	CONSTRUCTION DESCRIPTION
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C14	EXTERIOR SOFFIT: METAL SOFFIT PANEL SYSTEM (25" PERFORATED) ON METAL ZEE FURRING. BASIS OF DESIGN PAC-CLAD 'FLUSH' SOFFIT PANELS.
E2	ALUMINUM STOREFRONT SYSTEM WITH INSULATING GLASS.
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G1	METAL FASCIA SYSTEM: METAL GRAVEL STOP ON 2x WOOD BLOCKING
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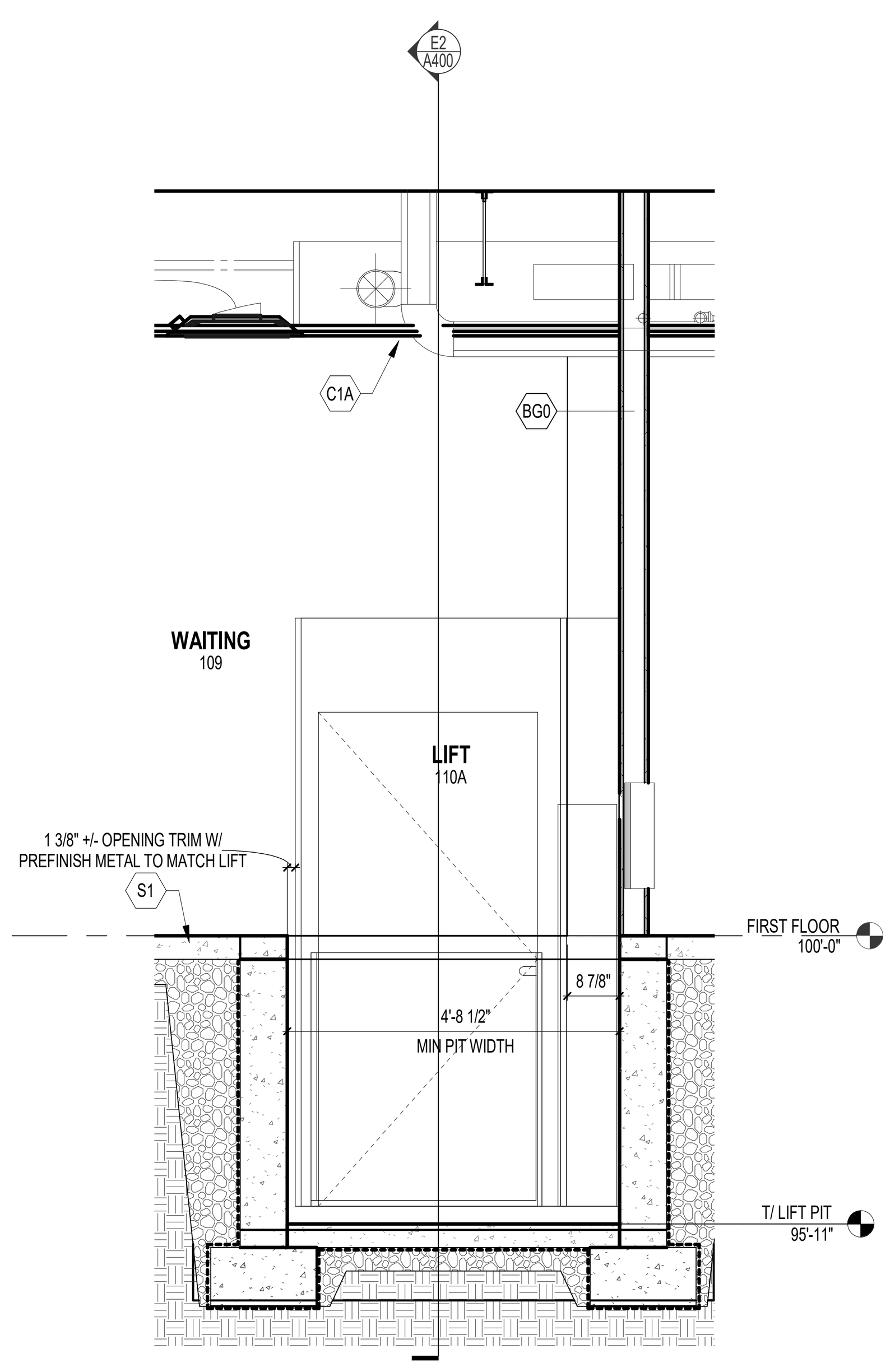
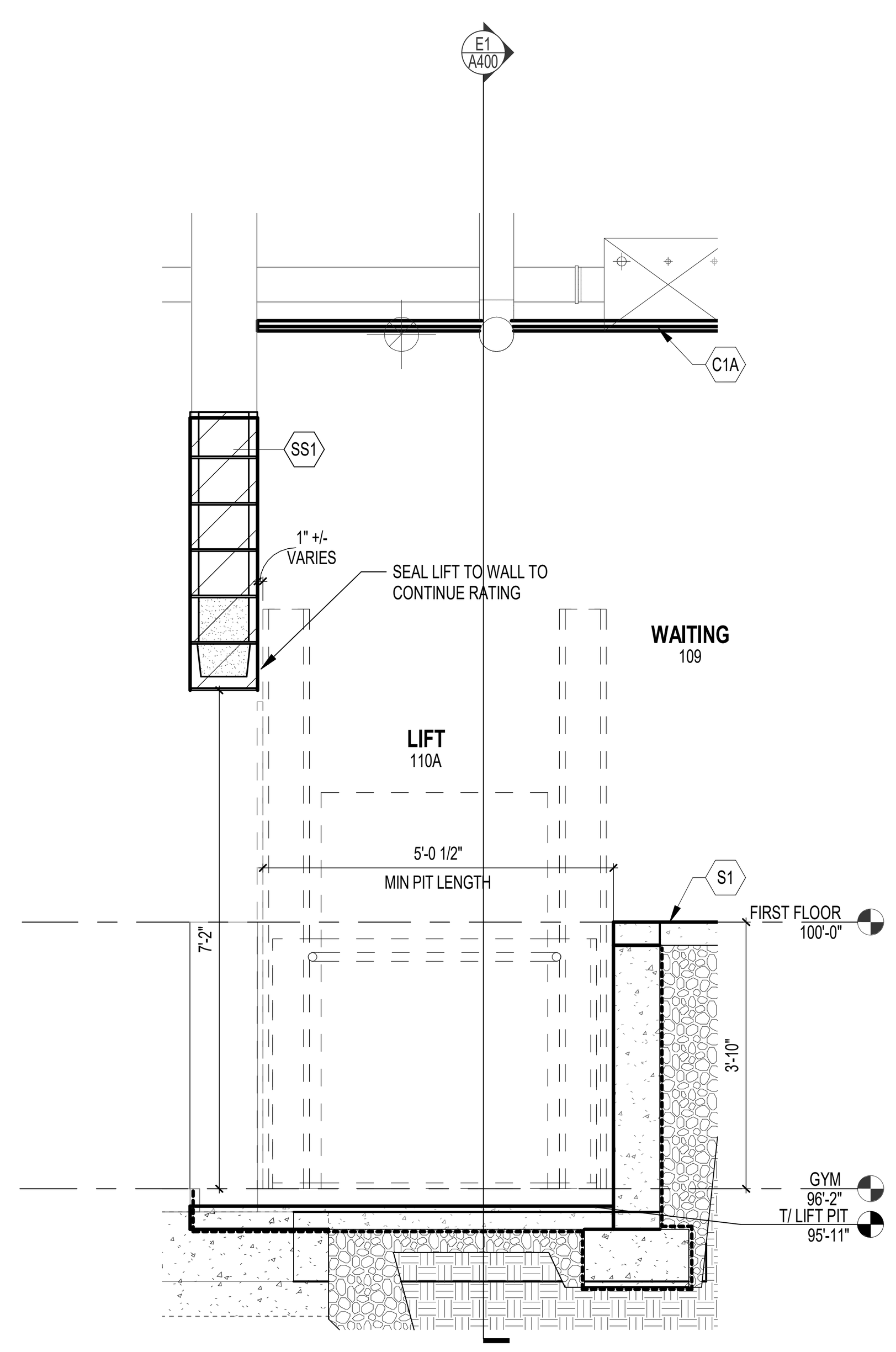
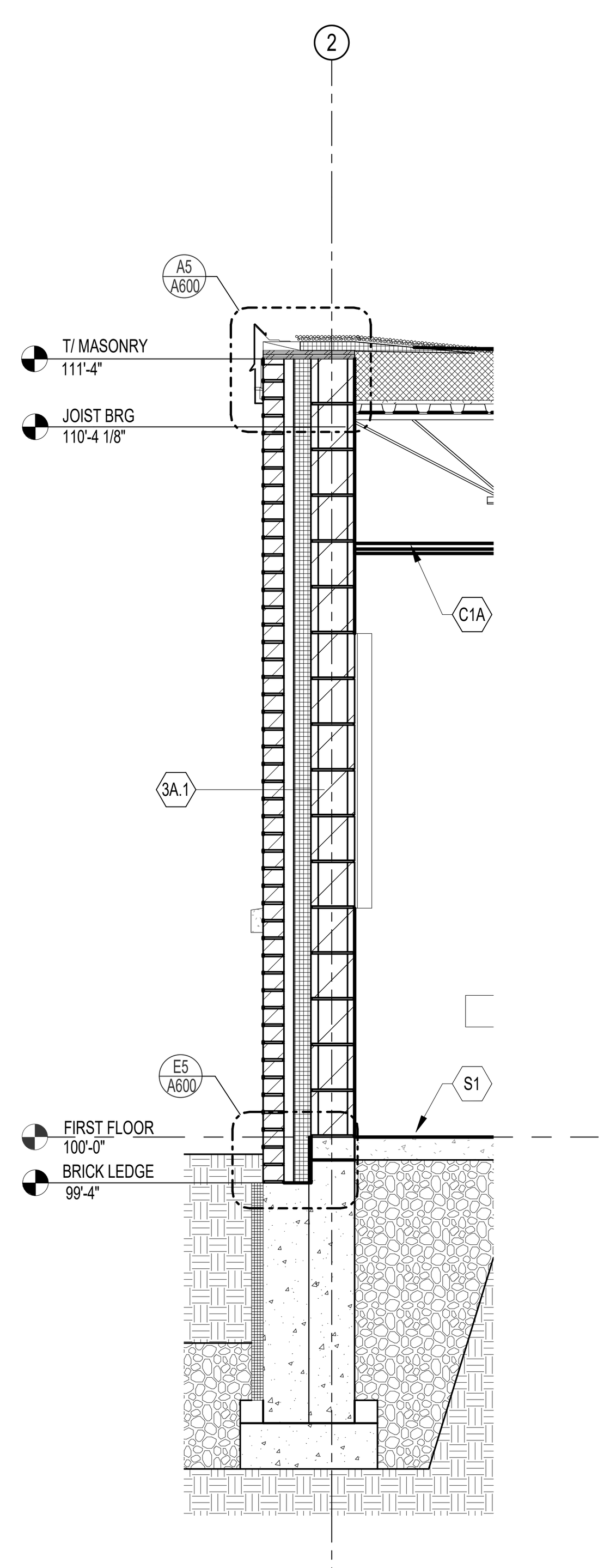
R1	SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST PROTECTIVE MAT ON RIGID INSULATION (MIN=R-30) (ON VAPOR RETARDER) ON 5/8" EXTERIOR SHEATHING ON METAL DECKING.
S1	REINFORCED CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL.



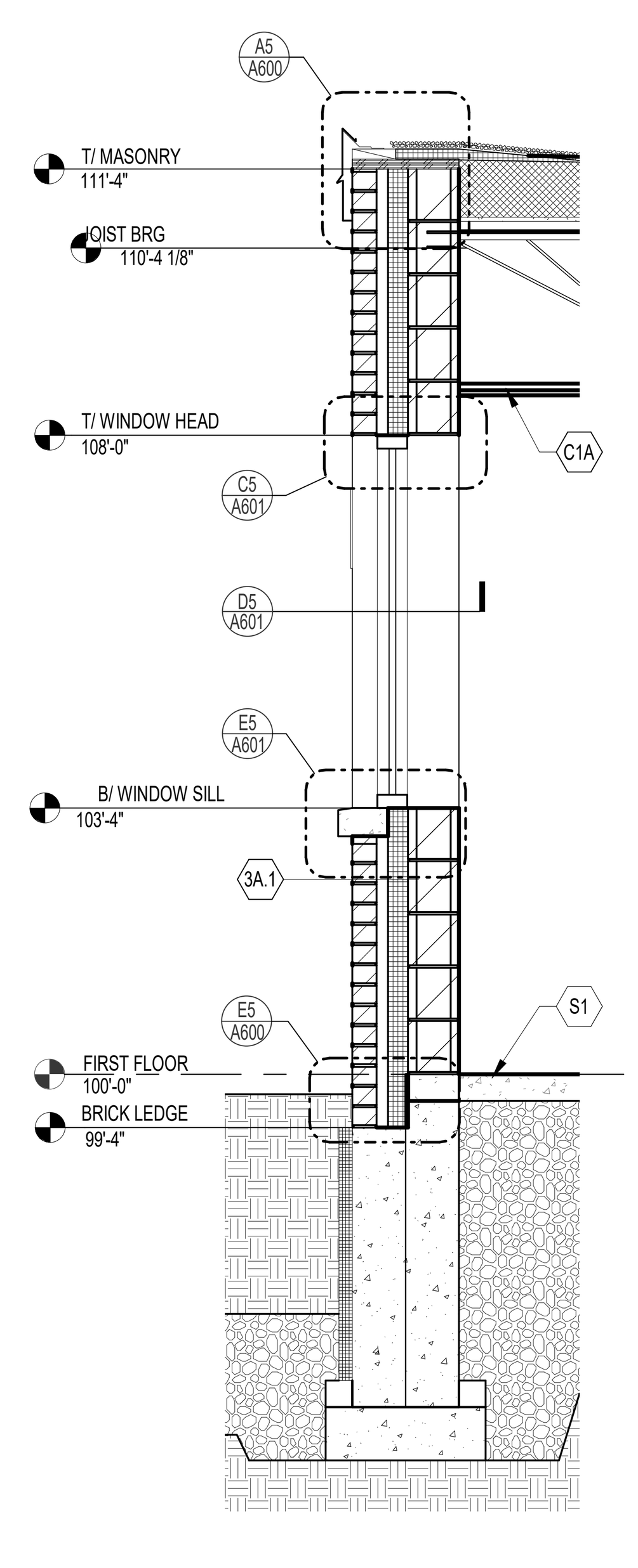
E1 **PLATFORM LIFT**
1/2" = 1'-0"



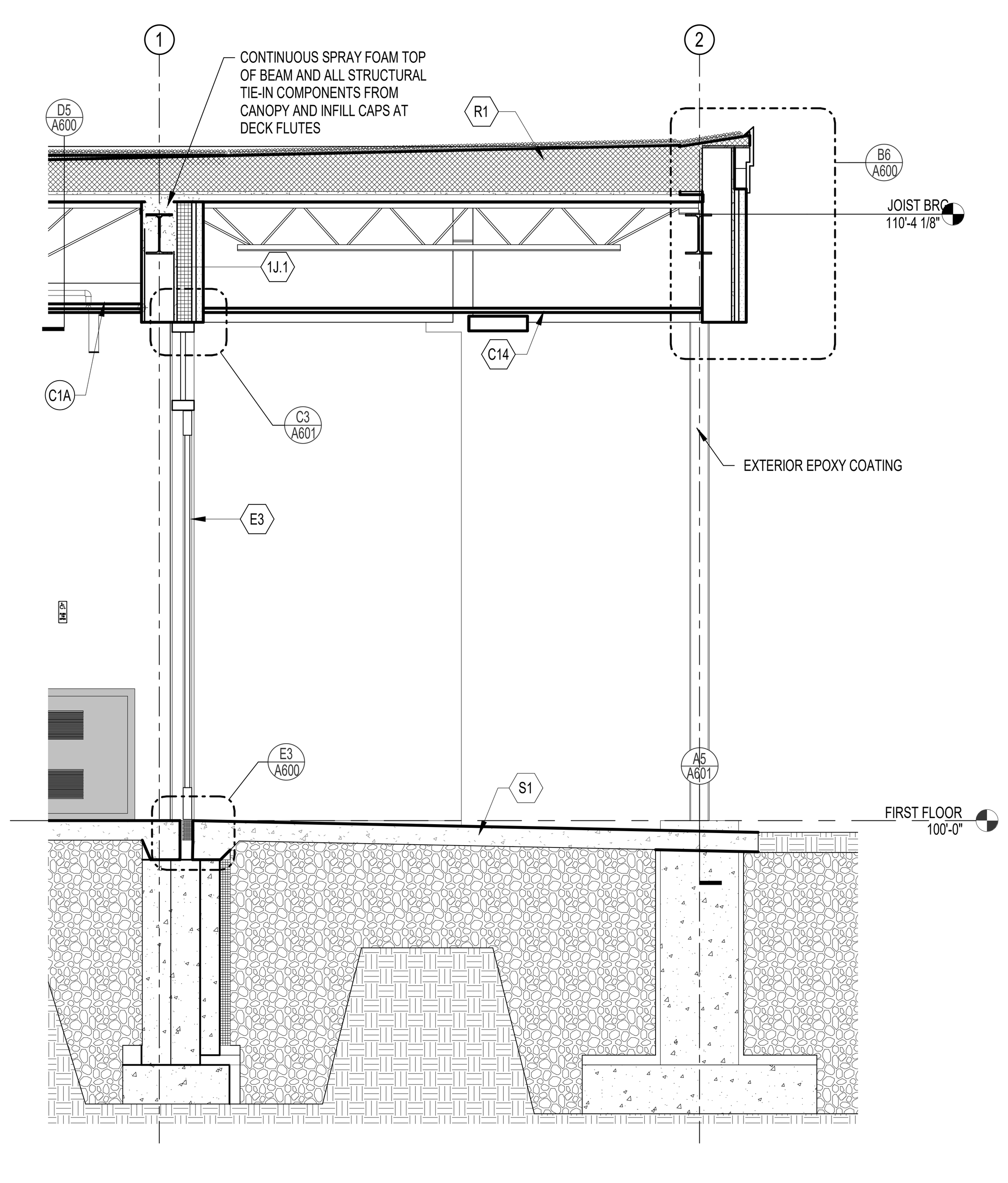
E2 **PLATFORM LIFT AT DOORS**
1/2" = 1'-0"



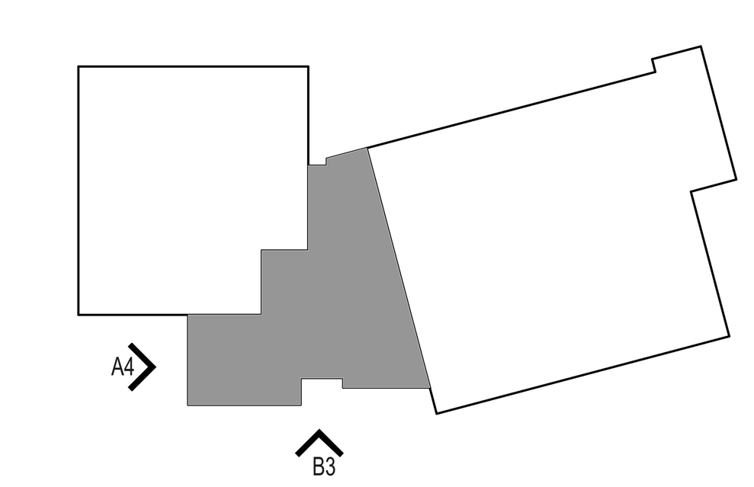
E3 **TYPICAL WALL SECTION**
1/2" = 1'-0"



E4 **TYPICAL SECTION @ WINDOW**
1/2" = 1'-0"



E5 **SECTION @ ENTRY CANOPY**
1/2" = 1'-0"



KEY PLAN

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EXTERIOR ELEVATIONS & WALL SECTIONS

CONSTRUCTION DOCUMENTS
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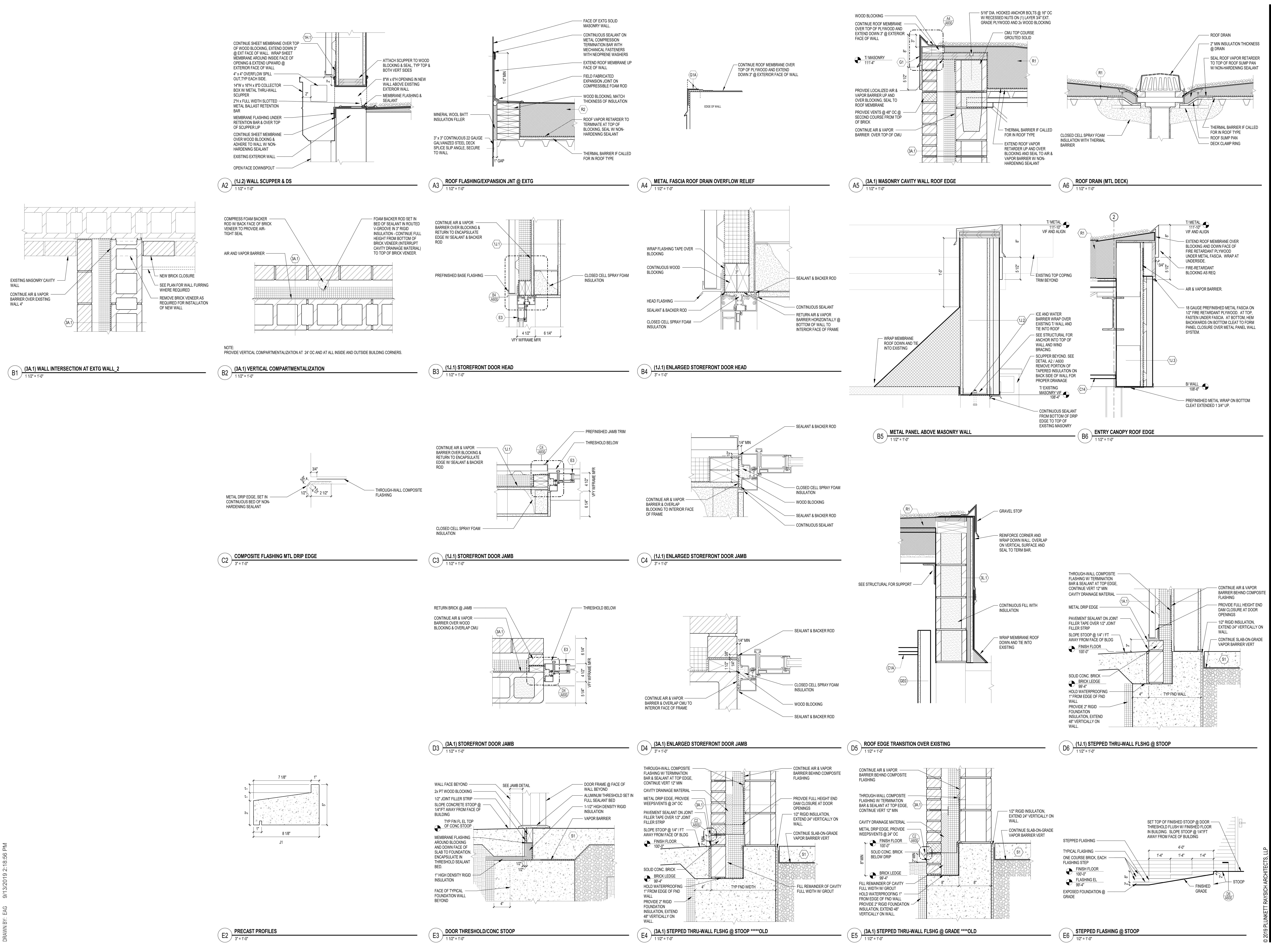
SHEET NO:
A400



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EXTERIOR DETAILS

CONSTRUCTION DOCUMENTS
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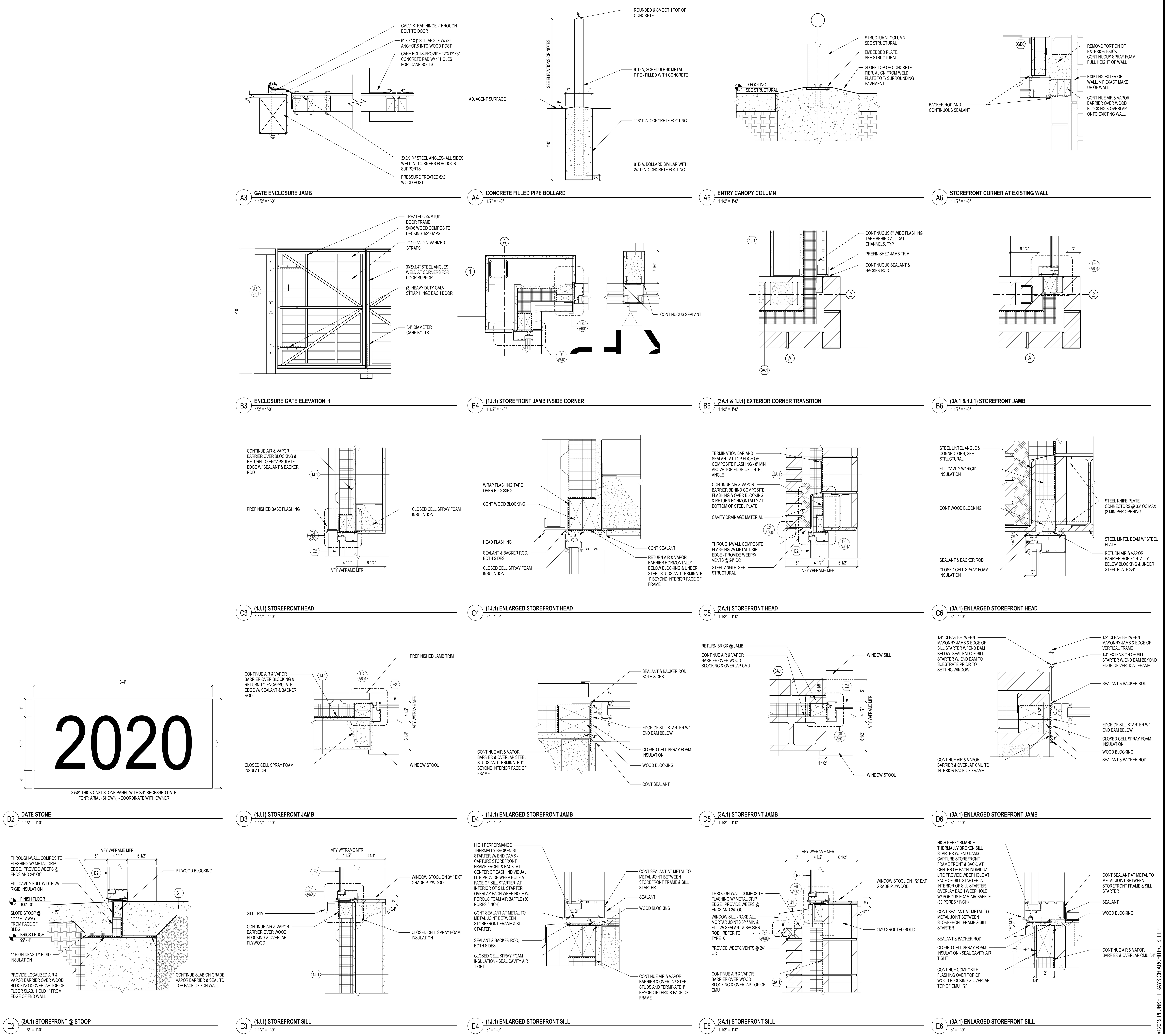
A600



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JOB NO: 190106-06

SHEET NO: A601

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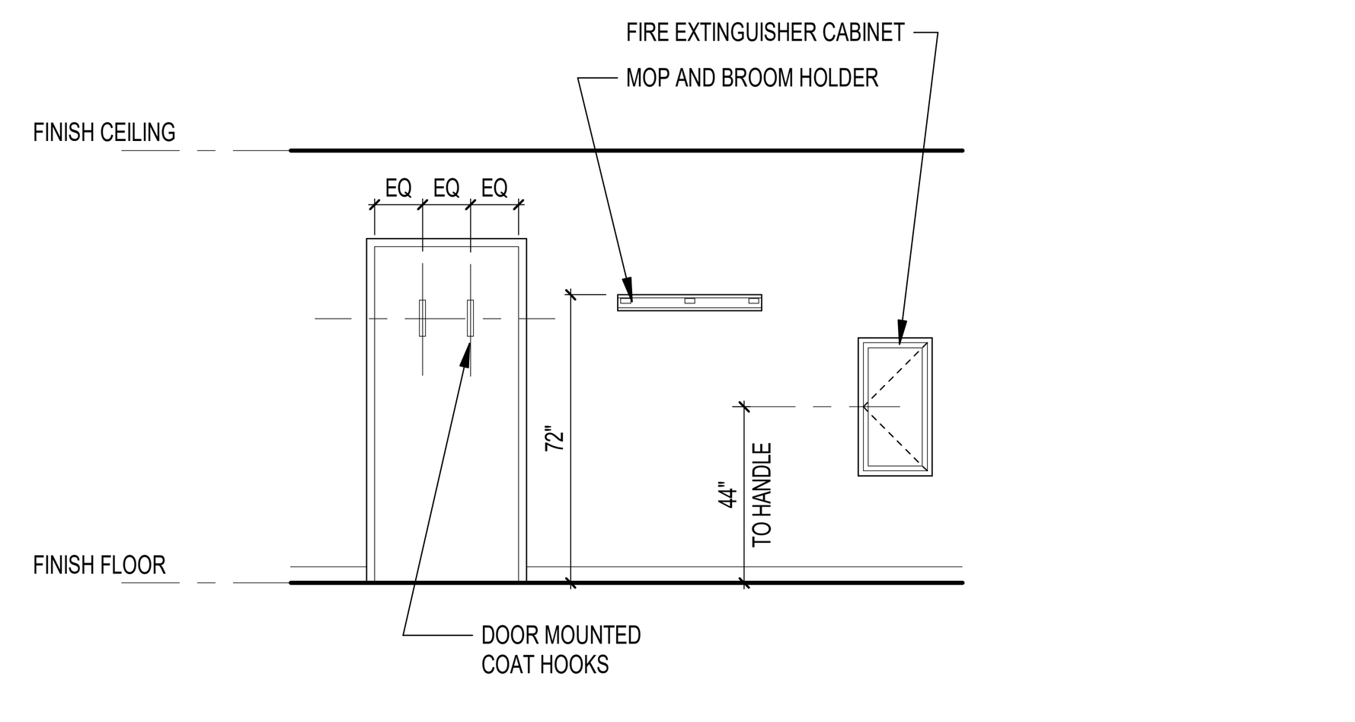
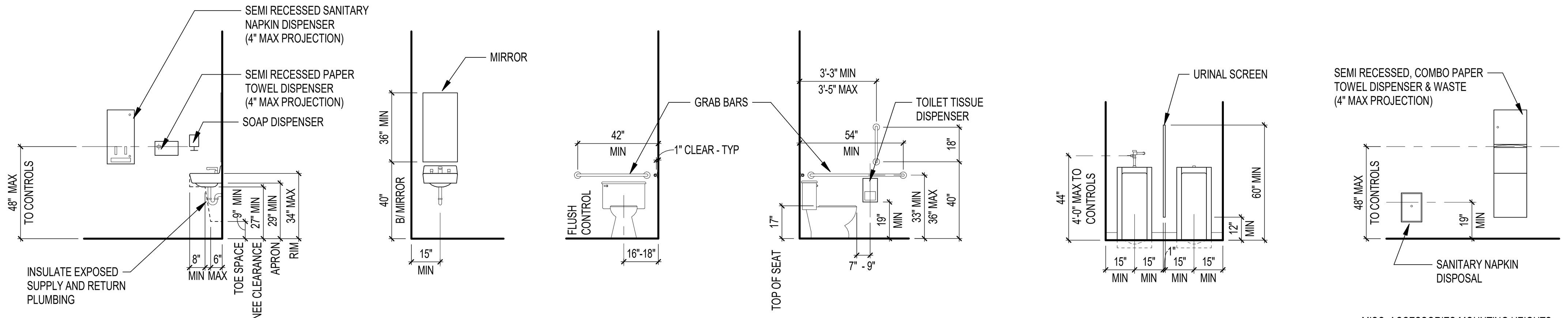


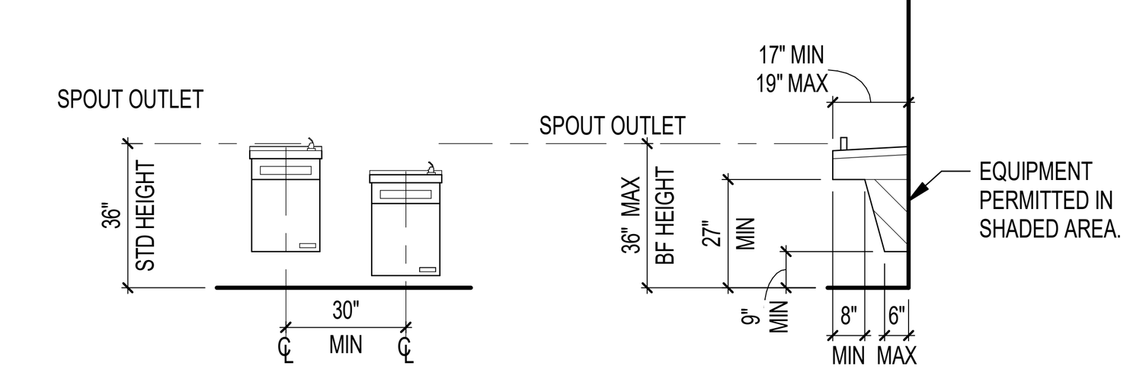
FOR REFERENCE ONLY - THIS DOES NOT INDICATE EQUIPMENT OR FIXTURES TO BE PROVIDED

BARRIER-FREE - MOUNTING HEIGHTS (PUBLIC SPACES)



MISC. ACCESSORIES MOUNTING HEIGHTS

BARRIER-FREE - MOUNTING HEIGHTS (TLT)



WISCONSIN ENROLLED COMMERCIAL BUILDING CODE: REFER TO ANSI A117.1 602 DRINKING FOUNTAIN AND WATER COOLER, FIG 602.5

BARRIER-FREE - MOUNTING HEIGHTS (EWC/DF)

INTERIOR ELEVATION SYMBOLS LEGEND

1/A101 — INTERIOR DETAIL REFERENCE

○ — INTERIOR ELEVATION NOTE

INTERIOR ELEVATION GENERAL NOTES

A. INTERIOR ELEVATION DIMENSIONS ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL.

CASEWORK GENERAL NOTES

A. REFER TO ROOM FINISH AND MATERIAL SCHEDULES FOR PLASTIC LAMINATE SELECTIONS.

B. PROVIDE BASE, AS LISTED IN ROOM FINISH SCHEDULE, AT ALL CASEWORK.

C. PROVIDE GROMMETS IN CASEWORK COUNTERTOPS WHEREVER ELECTRICAL OR COMMUNICATIONS OUTLETS ARE INDICATED IN KNEE SPACE BELOW. VERIFY LOCATION IN FIELD.

D. ROUND ALL OUTSIDE CORNERS OF COUNTERTOPS WITH MINIMUM 1-1/2" RADIUS UNLESS NOTED OTHERWISE.

E. PROVIDE 1-1/2" (MINIMUM) FILLERS AT PERPENDICULAR JUNCTION OF ALL CABINETS AND AT PERPENDICULAR JUNCTURE WITH ADJACENT WALL(S), UNLESS NOTED OTHERWISE. SCRIBE ALL EDGES AND APPLY SEALANT TO JOINTS.

F. PROVIDE SEALANT BETWEEN BACKSPLASH / SIDE SPLASH OR COUNTERTOP AND WALL.

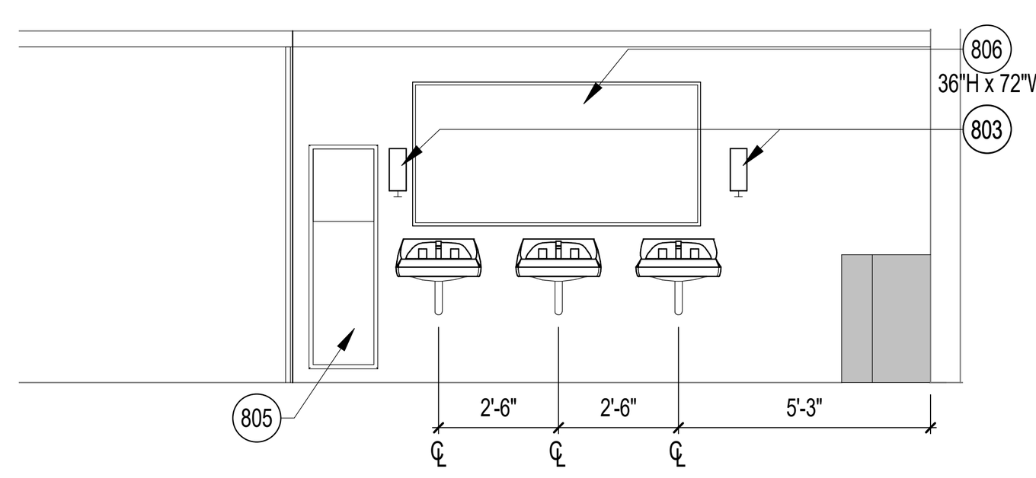
G. ALL SHELVING IN CASEWORK TO BE ADJUSTABLE UNLESS NOTED OTHERWISE.

H. SEE KEY TO ABBREVIATIONS FOR ADDITIONAL CASEWORK AND EQUIPMENT ABBREVIATIONS.

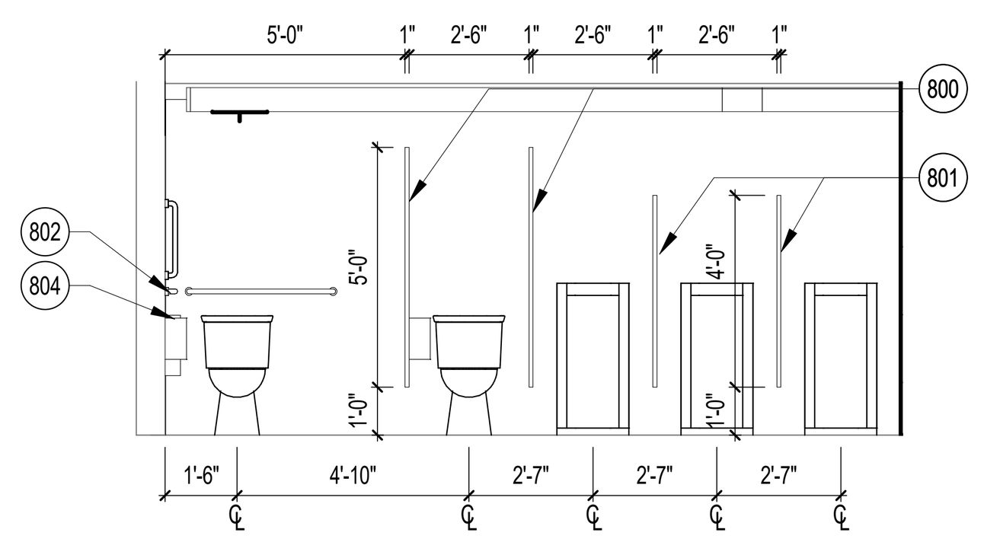
I. ALL FILE CABINETS TO ACCOMMODATE PENDAFLEX FILE SYSTEM.

INTERIOR ELEVATION NOTES

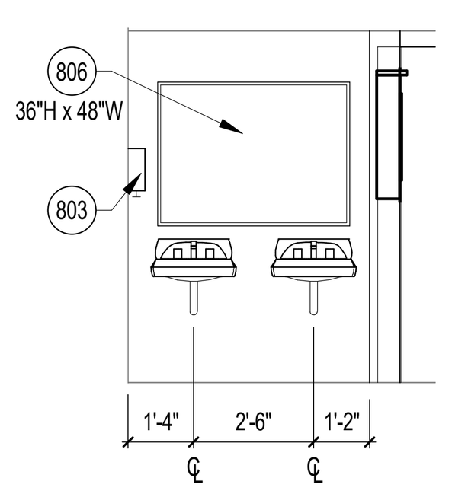
NOTE #	INTERIOR ELEVATION NOTE
800	TOILET PARTITION
801	URINAL SCREEN
802	GRAB BARS
803	SOAP DISPENSER, BY OWNER
804	TOILET PAPER DISPENSER, BY OWNER
805	PAPER TOWEL DISPENSER, BY OWNER
806	FRAMED MIRROR. SEE ELEVATION FOR SIZE
807	REFRIGERATOR, BY OWNER
808	EQUIPMENT, BY OWNER
811	MOP HOLDER



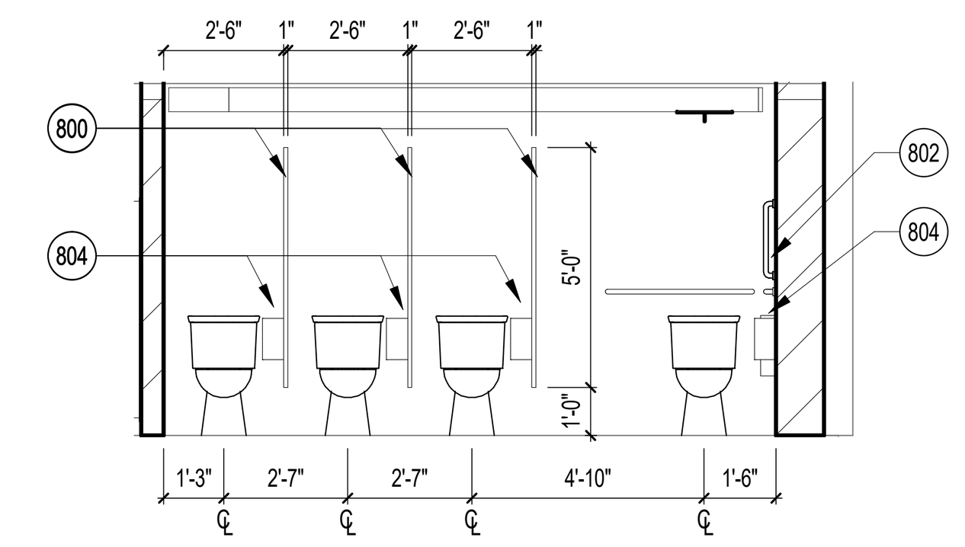
B1 BOYS TLT - T104 (EAST)
1/4" = 1'-0"



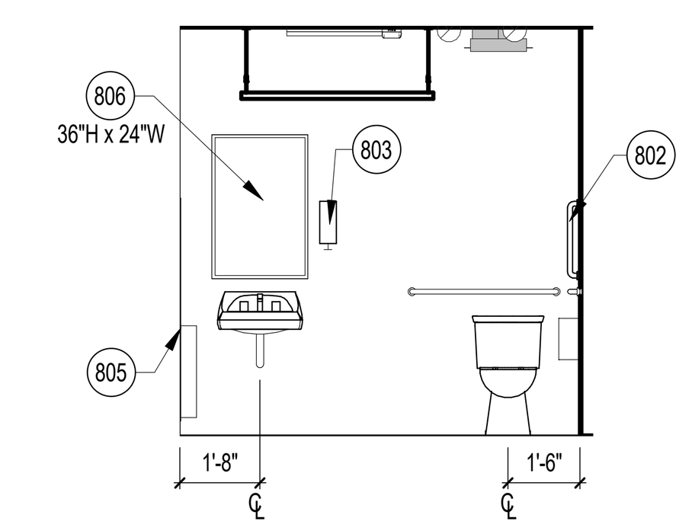
B2 GIRLS TLT - T105 (WEST)
1/4" = 1'-0"



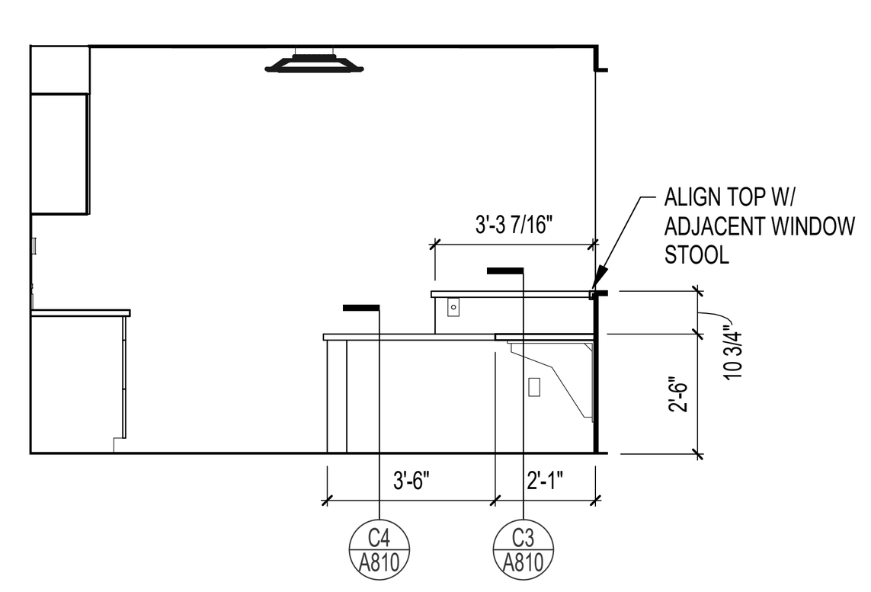
B3 GIRLS & BOYS TLT - (NORTH)
1/4" = 1'-0"



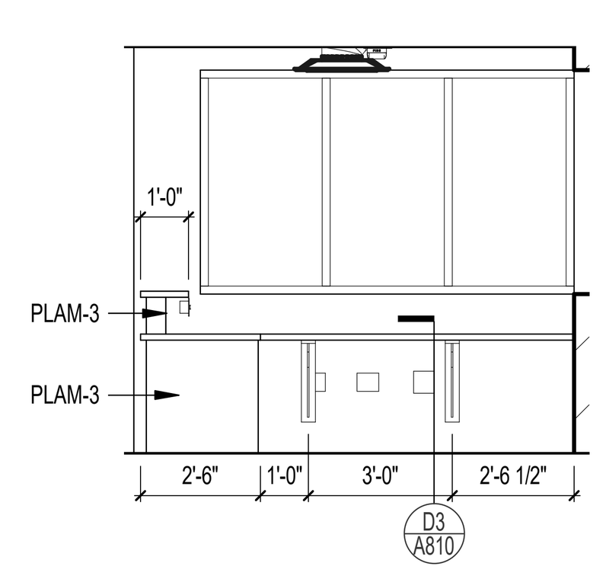
B4 GIRLS TLT - T105 (EAST)
1/4" = 1'-0"



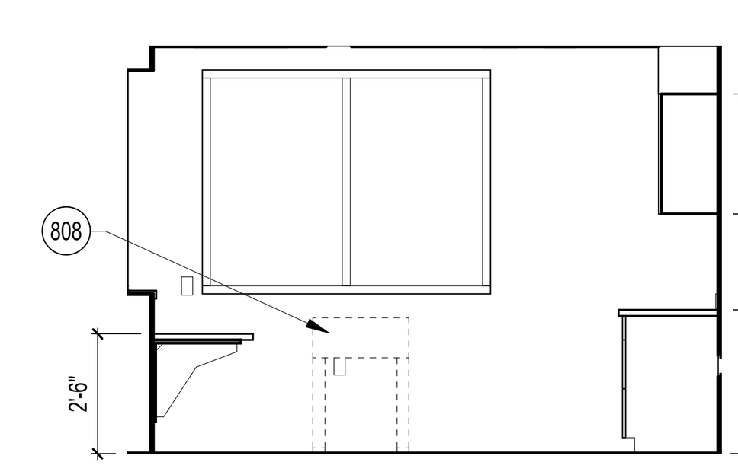
B5 TLT - T111 (WEST)
1/4" = 1'-0"



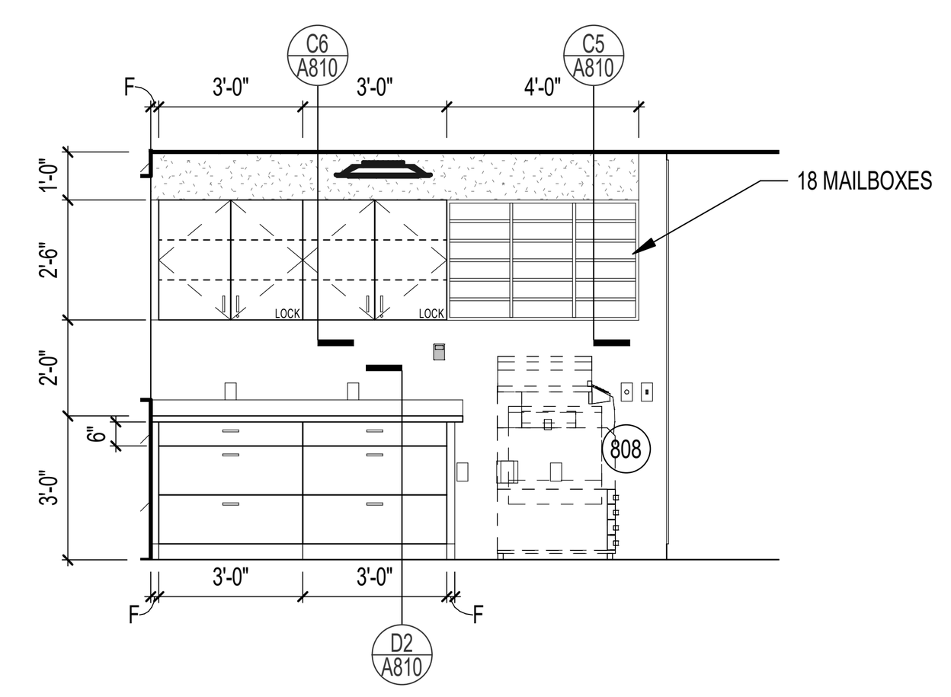
C1 RECEPTION - 110 (NORTH)
1/4" = 1'-0"



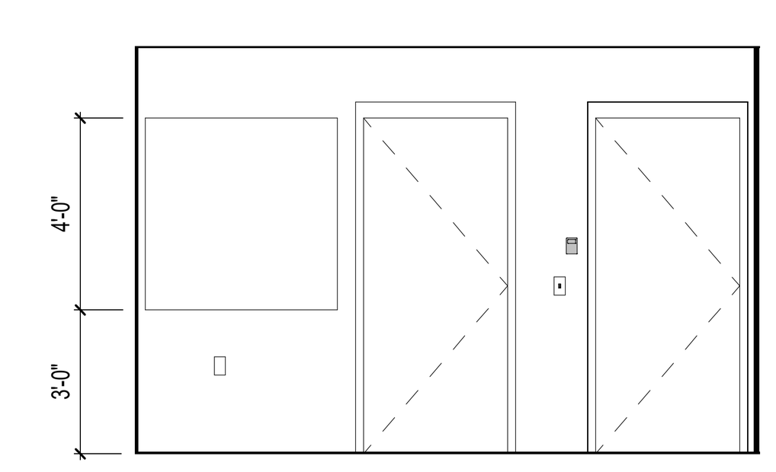
C2 RECEPTION - 110 (EAST)
1/4" = 1'-0"



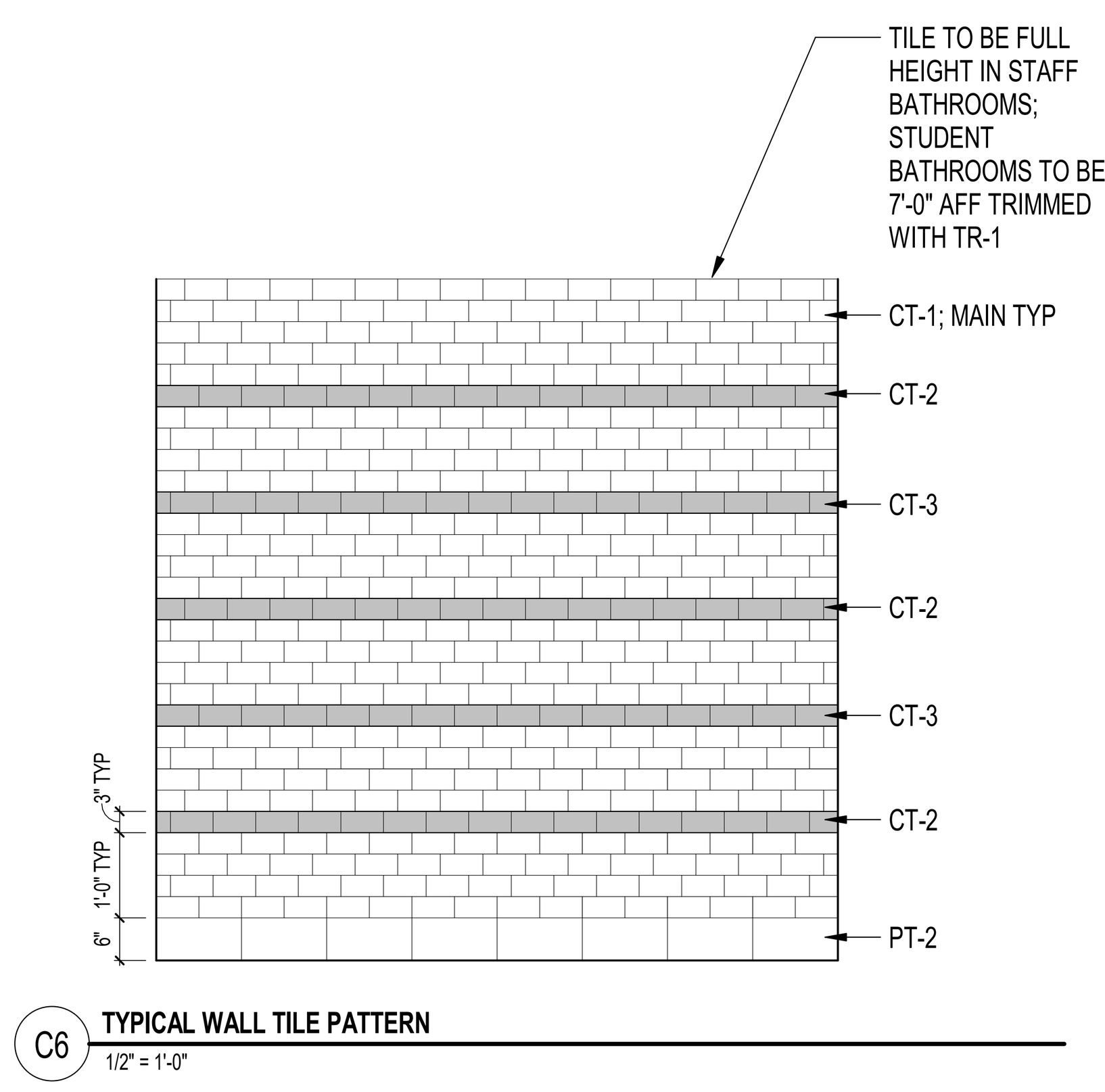
C3 RECEPTION - 109 (SOUTH)
1/4" = 1'-0"



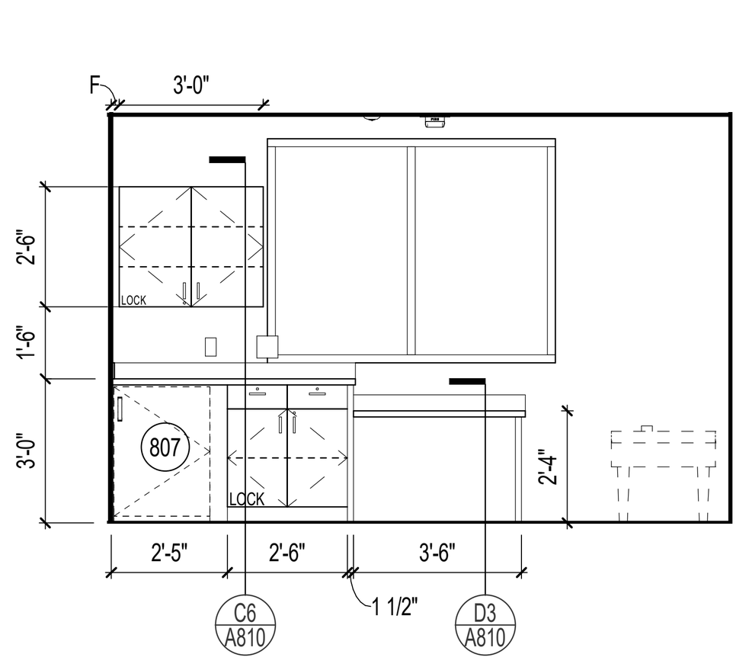
C4 RECEPTION - 109 (WEST)
1/4" = 1'-0"



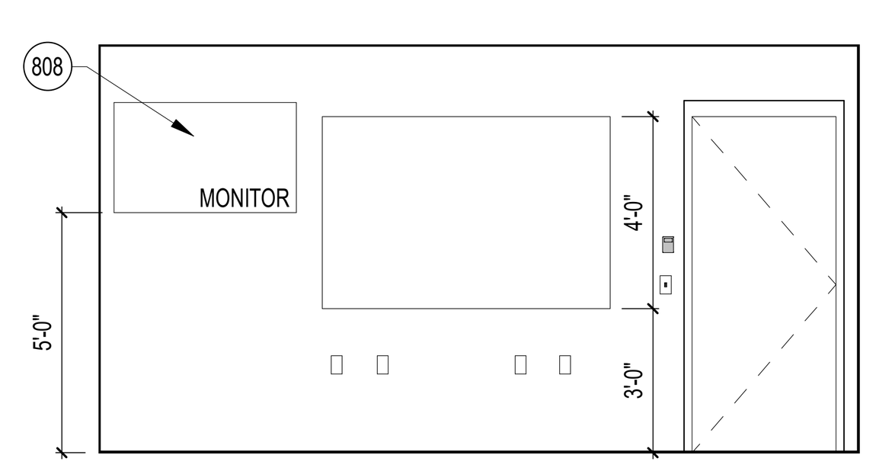
C5 HEALTH - 113 (EAST)
1/4" = 1'-0"



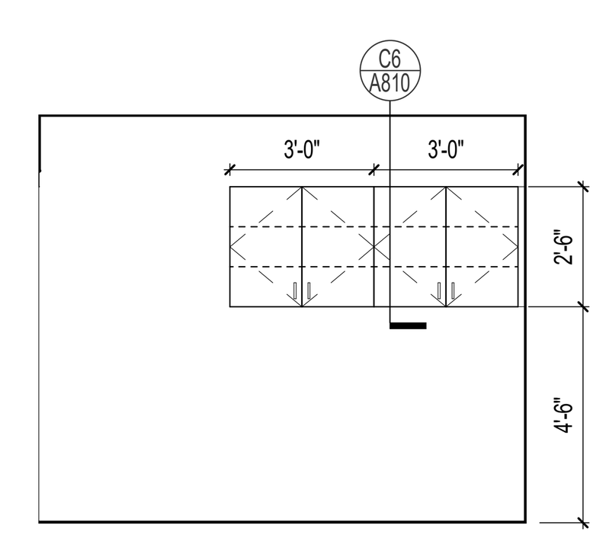
C6 TYPICAL WALL TILE PATTERN
1/2" = 1'-0"



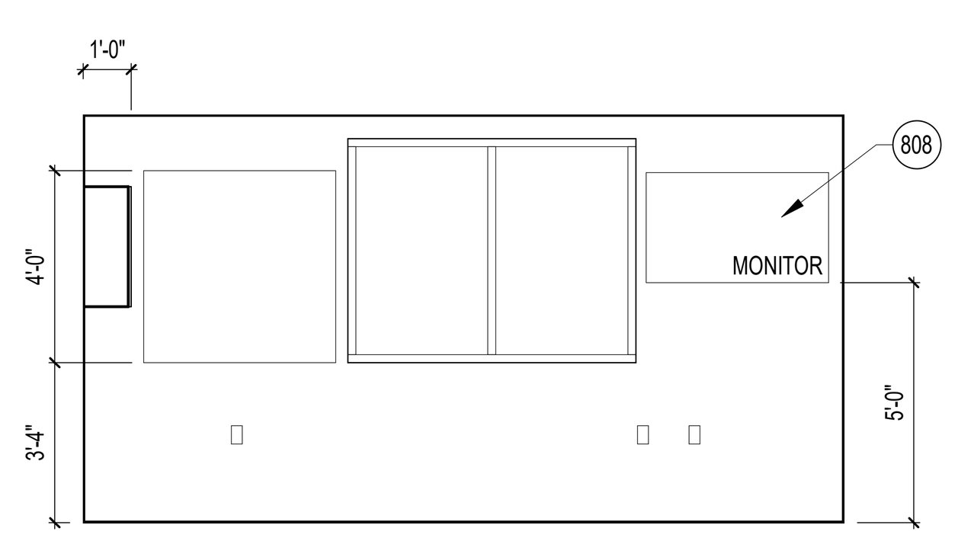
D1 HEALTH - 113 (WEST)
1/4" = 1'-0"



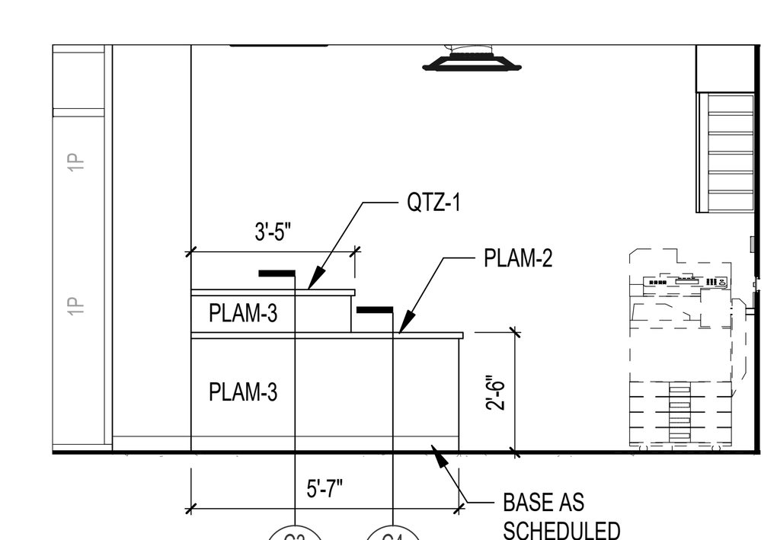
D2 CONF/PRIN - 112 (NORTH)
1/4" = 1'-0"



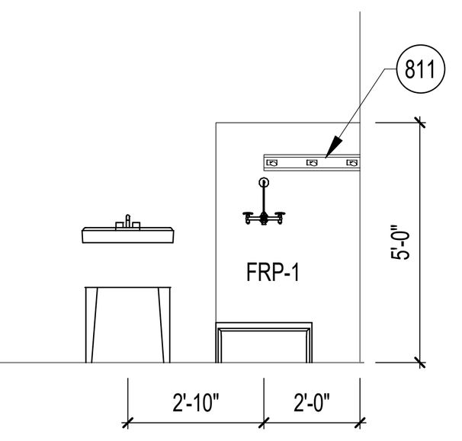
D3 CONF/PRIN - 112 (EAST)
1/4" = 1'-0"



D4 CONF/PRIN - 112 (SOUTH)
1/4" = 1'-0"



D5 WAITING - 109 (SOUTH)
1/4" = 1'-0"



D6 JAN/STOR - 120 (WEST)
1/4" = 1'-0"

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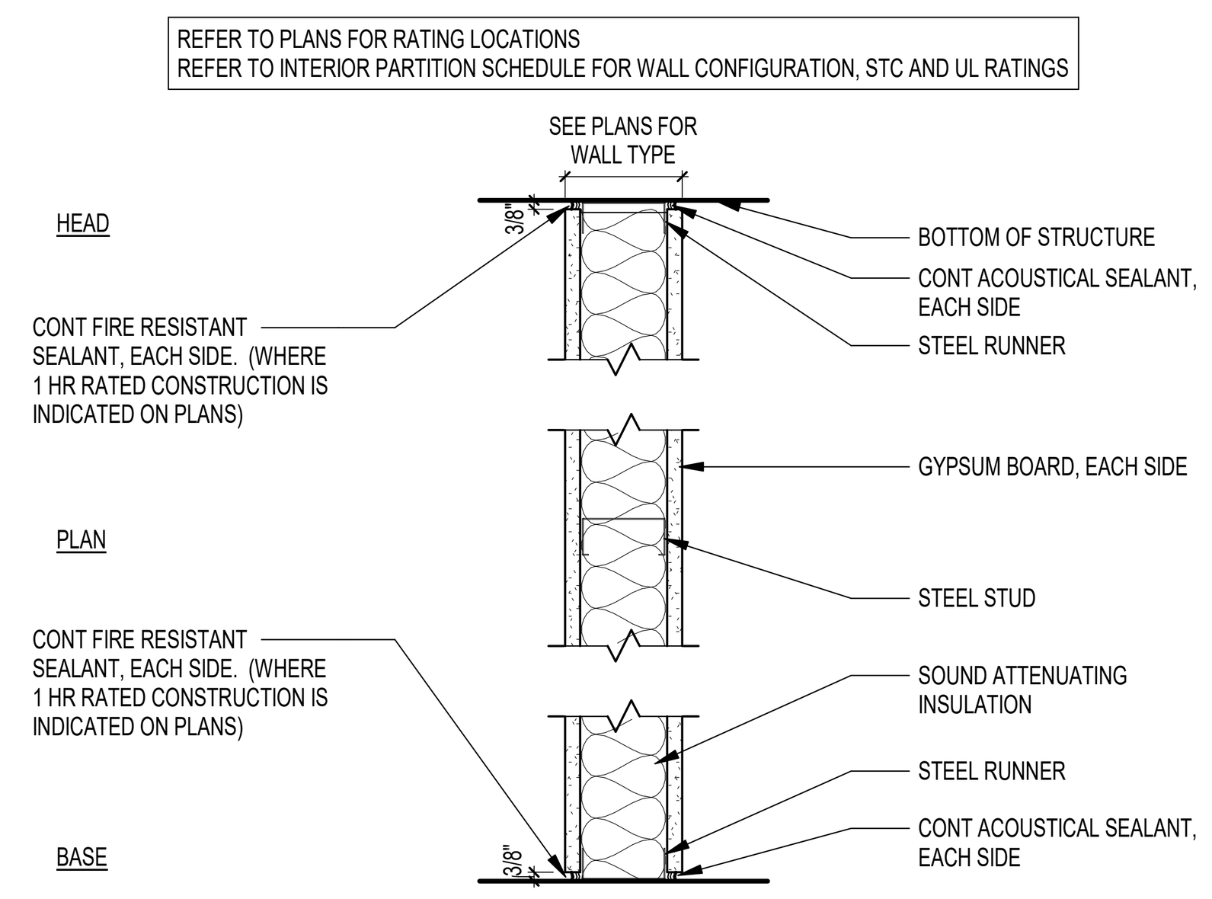
SCHOOL DISTRICT OF MILTON CONSOLIDATED - ADDITION & RENOVATION

4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

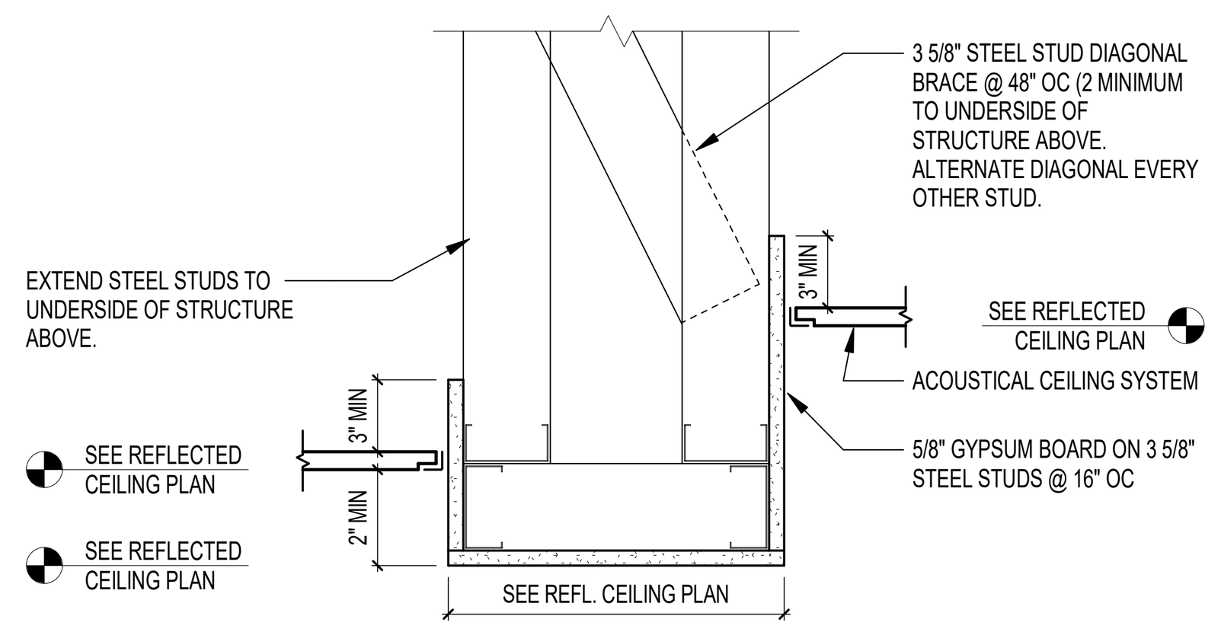
REVISIONS:

INTERIOR ELEVATIONS

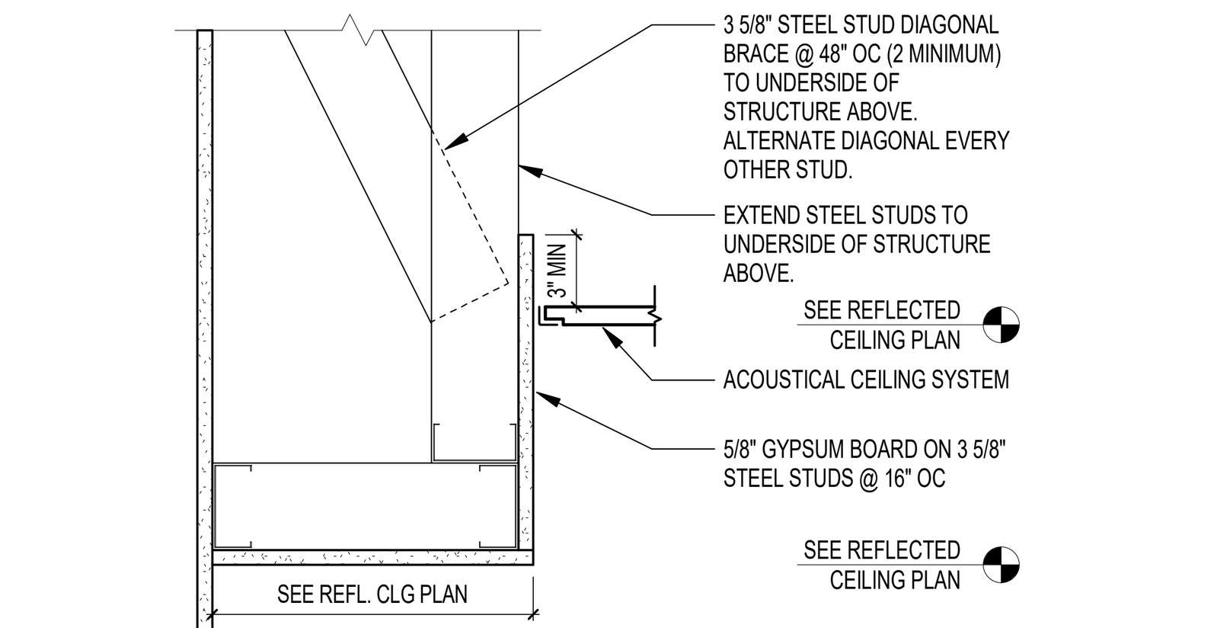
CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: A800



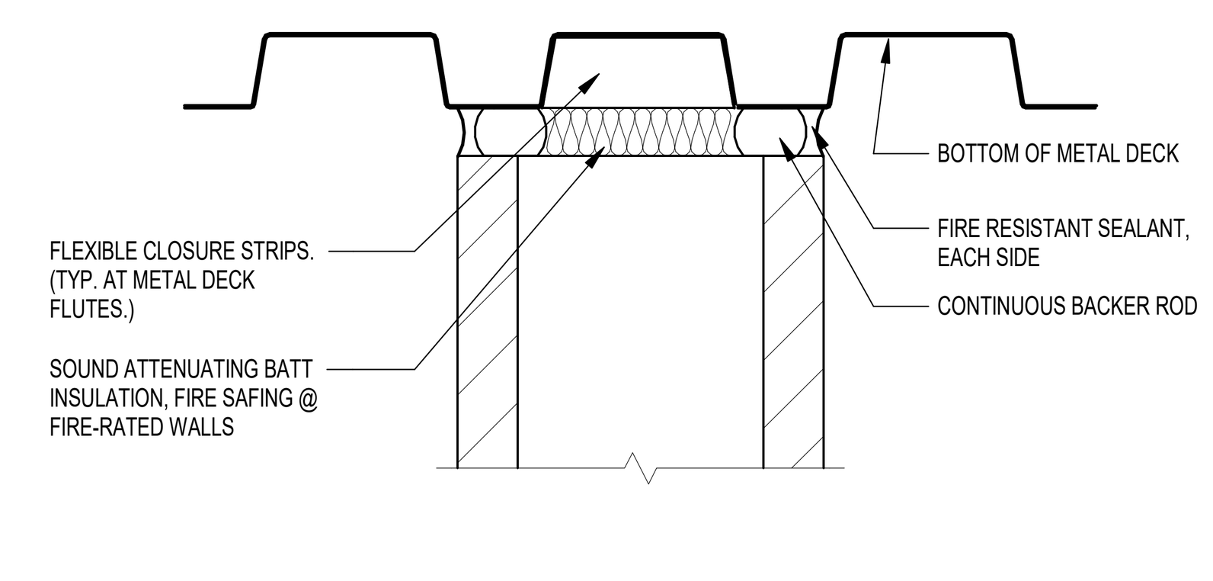
A1 (B SERIES) INTERIOR PARTITION
1 1/2" = 1'-0"



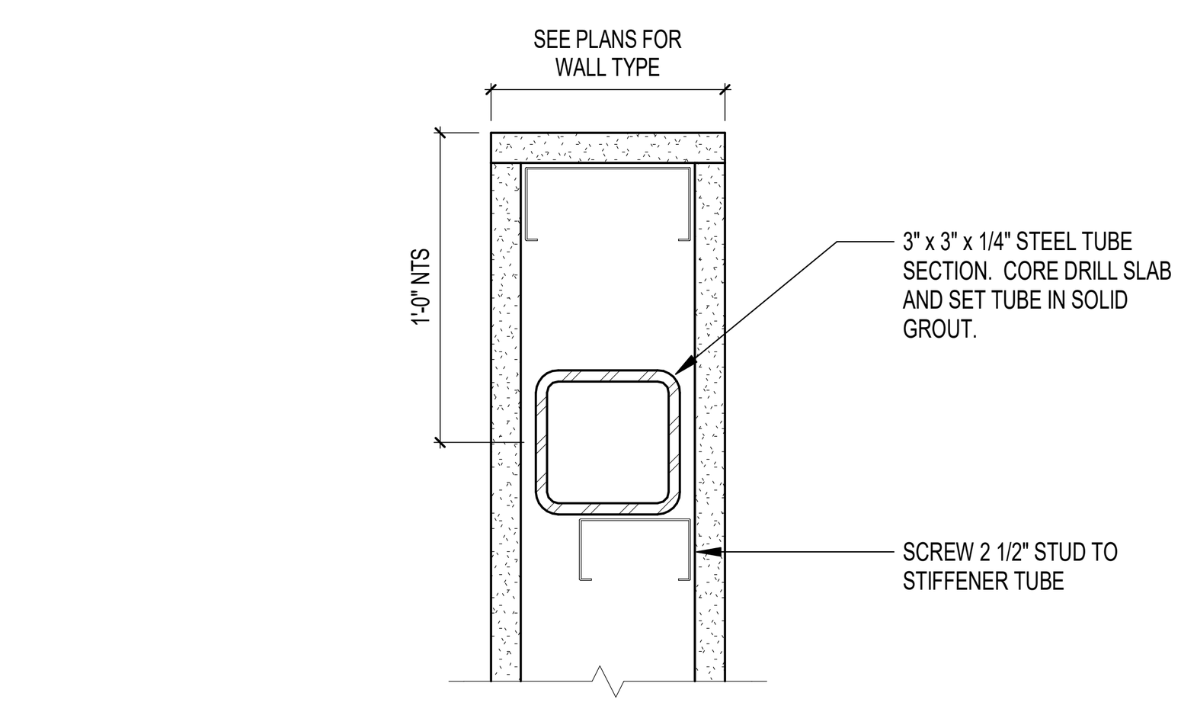
A2 WIDE BULKHEAD
1 1/2" = 1'-0"



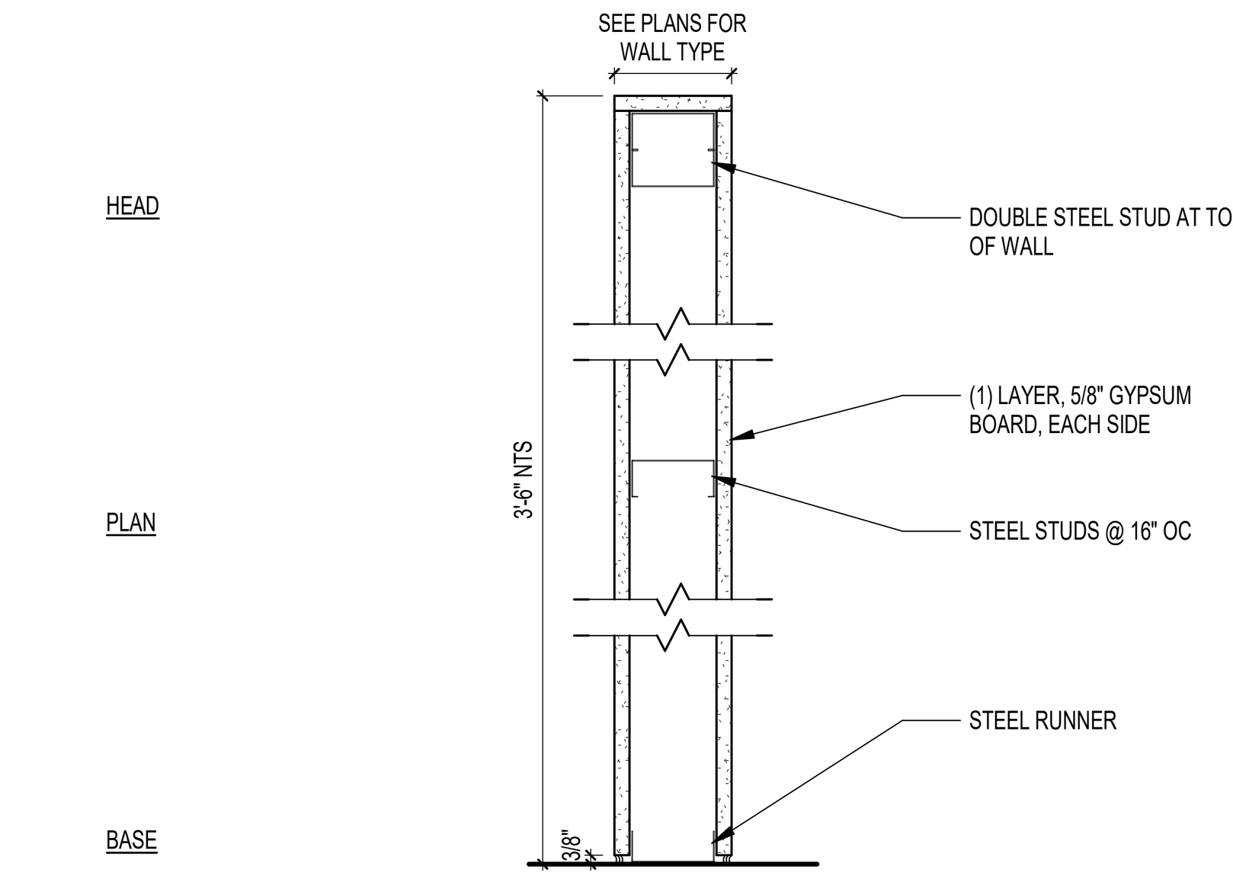
A3 SOFFIT AT WALL
1 1/2" = 1'-0"



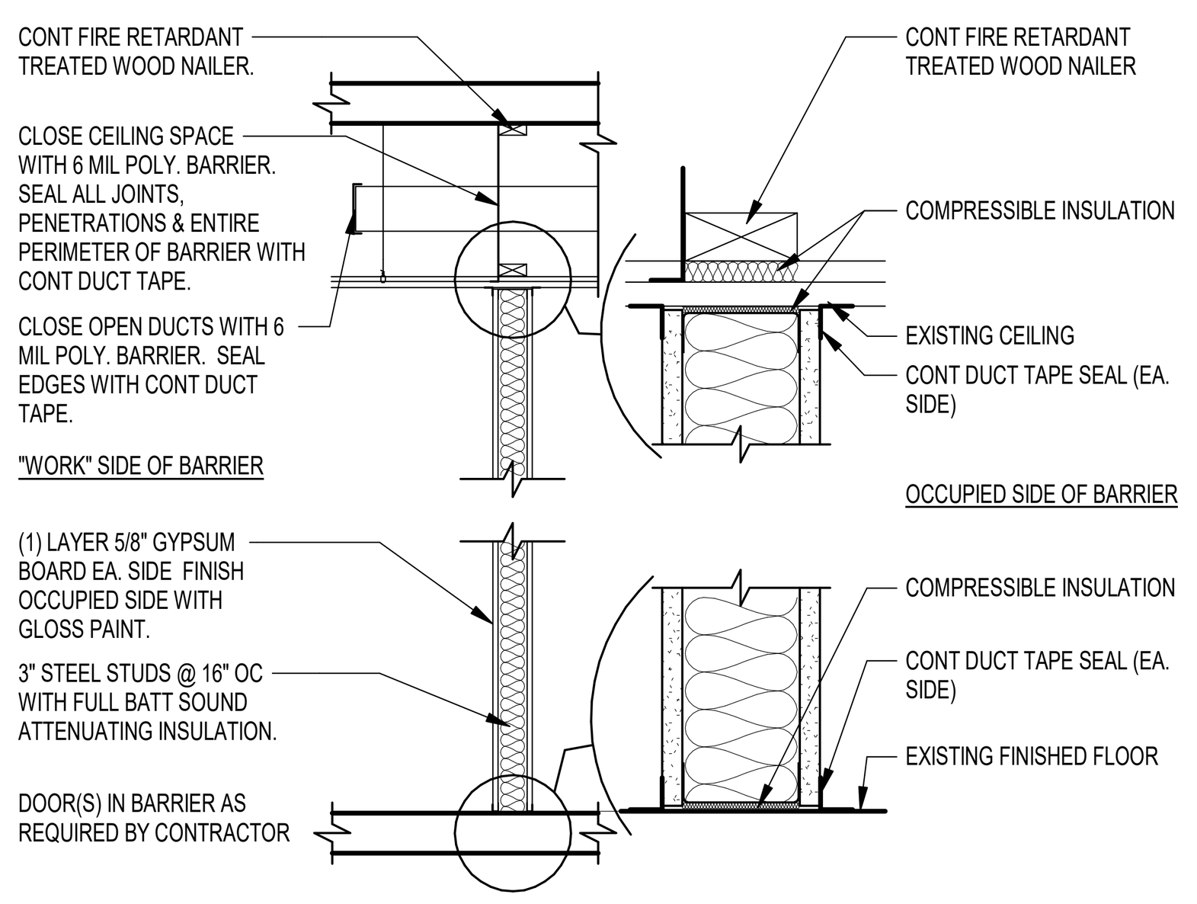
A4 MASONRY PART CLOSURE @ MTL DECK
3" = 1'-0"



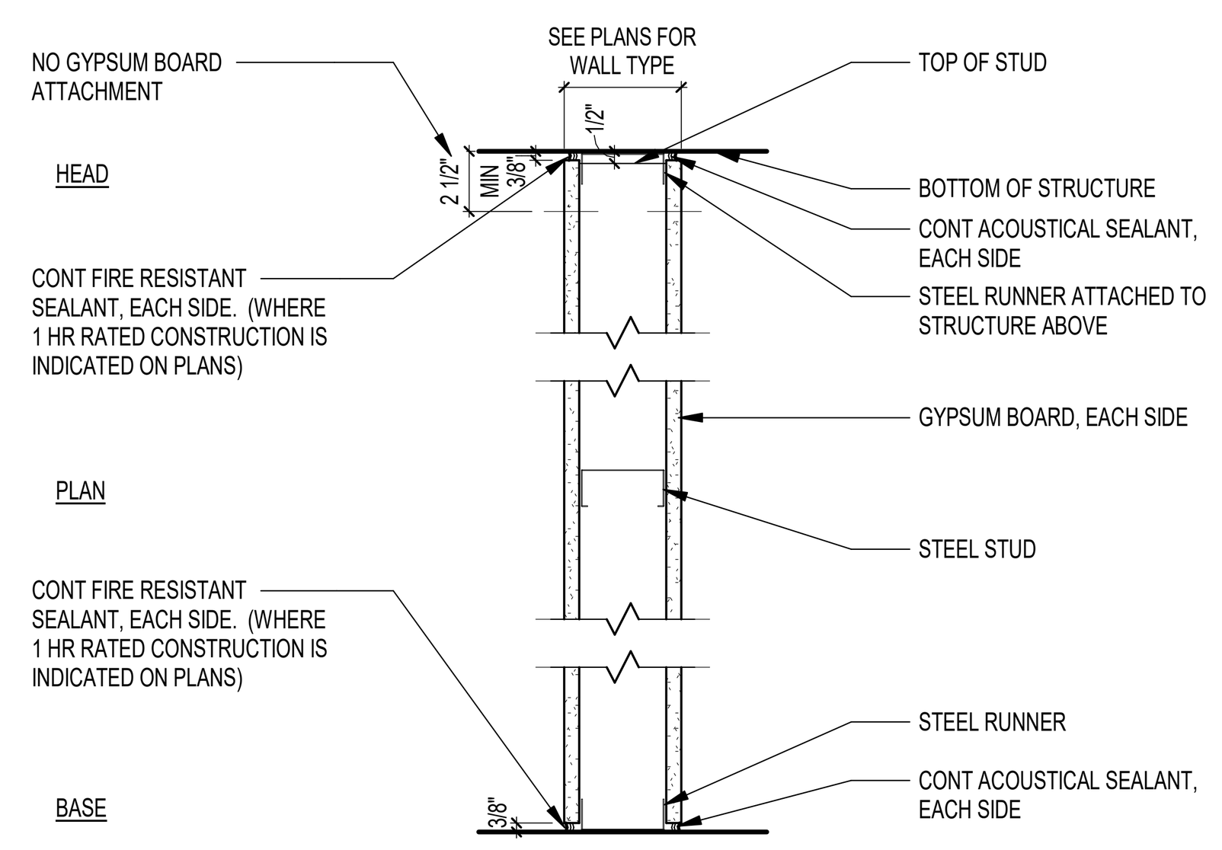
A5 LOW PARTITION STIFFENER_1
3" = 1'-0"



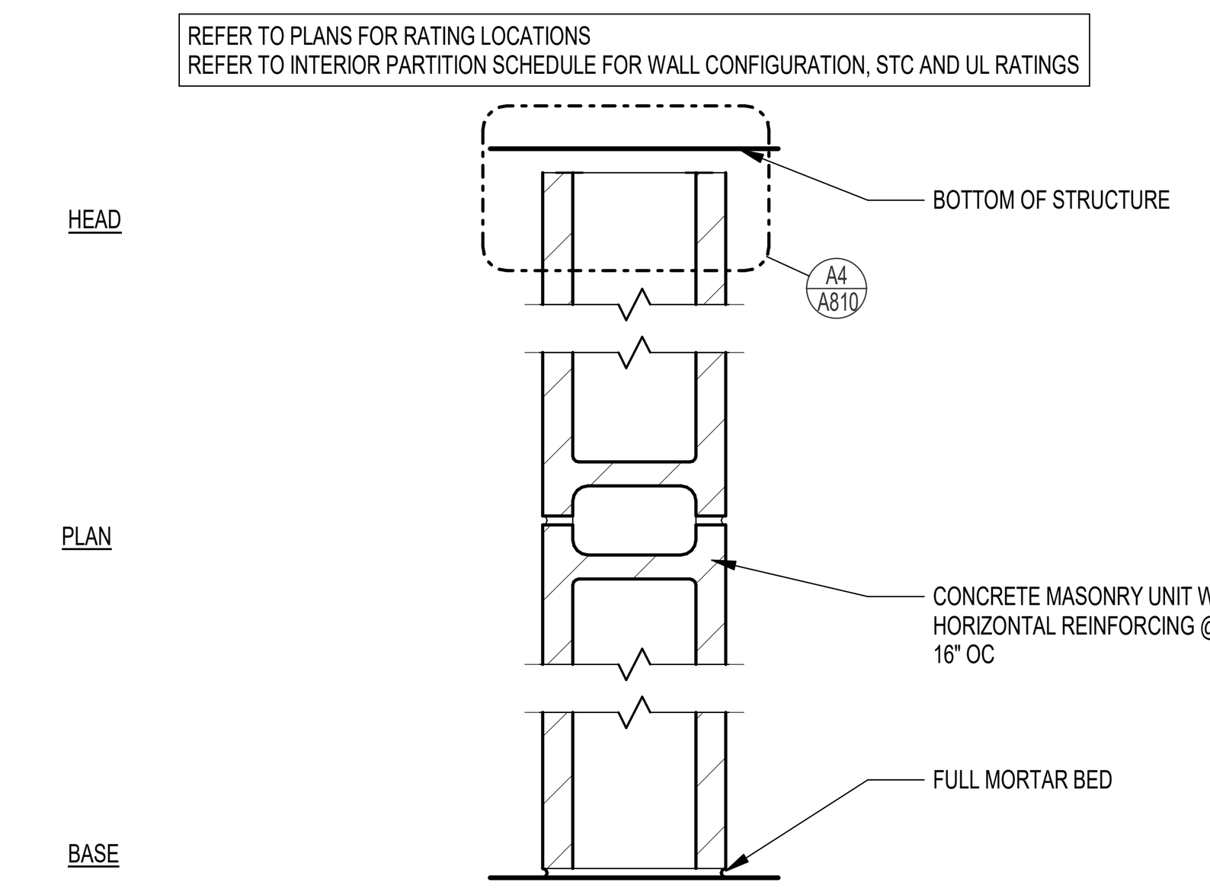
A6 LOW PARTITION
1 1/2" = 1'-0"



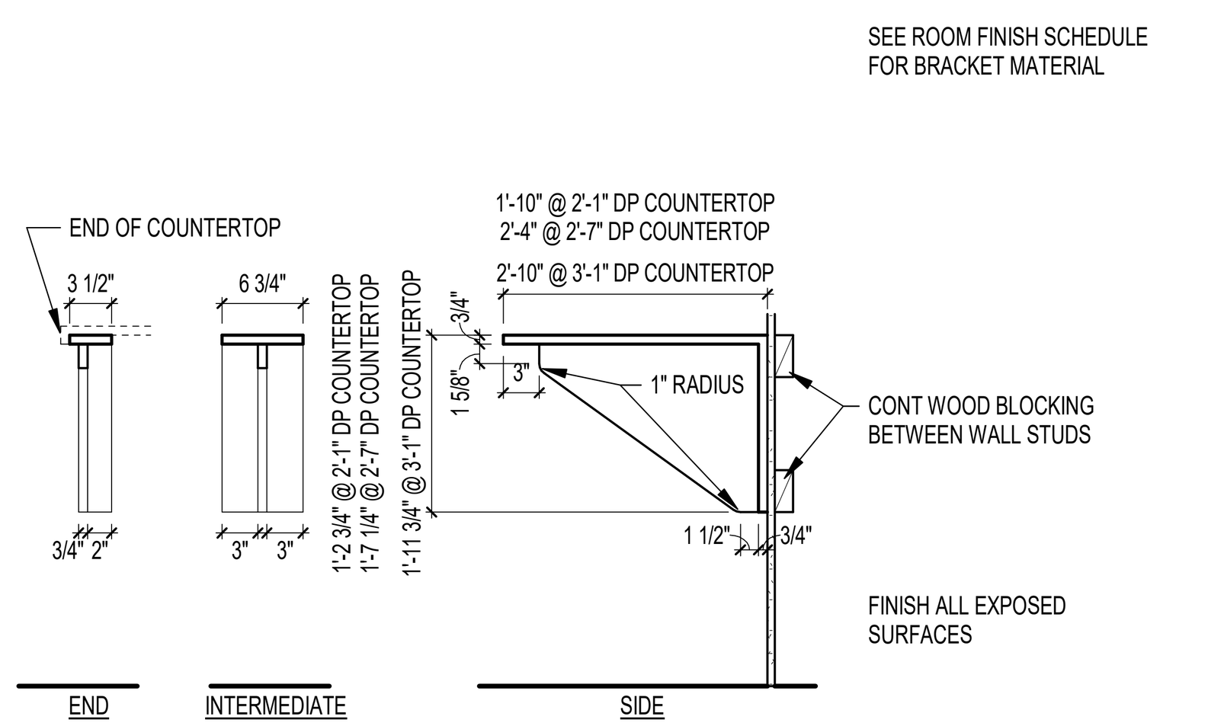
B1 TYPICAL DUST-PROOF BARRIER
1/2" = 1'-0"



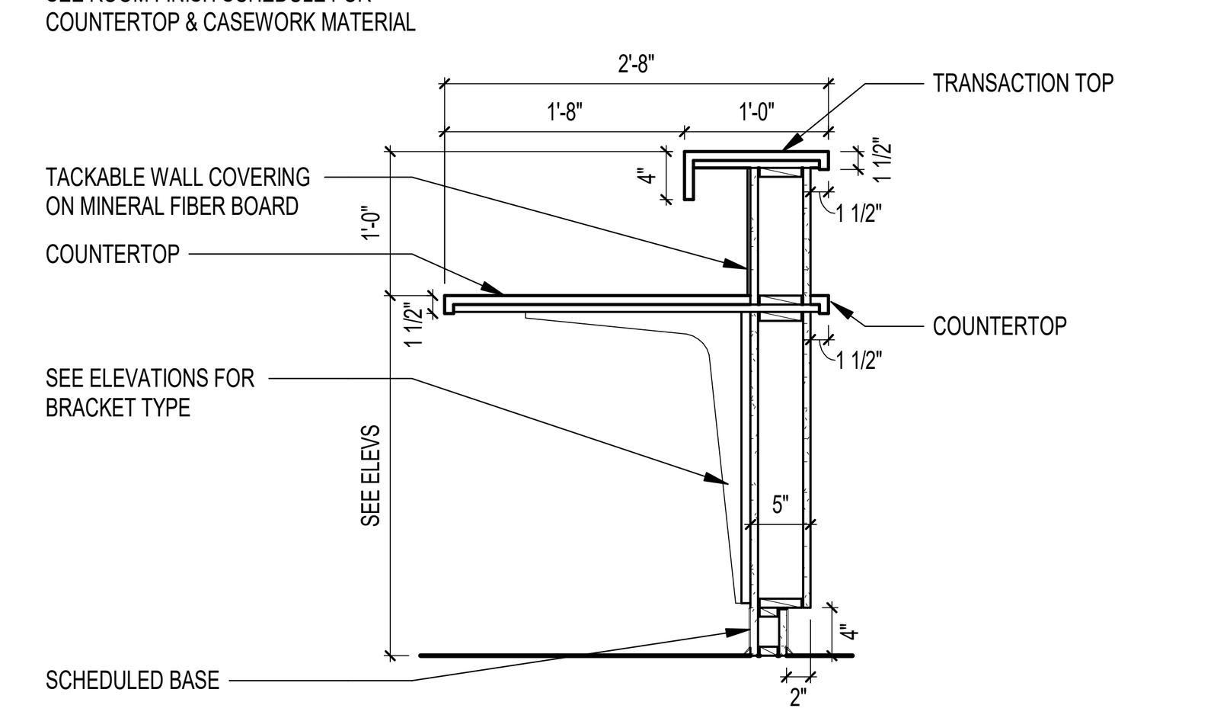
B2 PARTITION SLIP JOINT
1 1/2" = 1'-0"



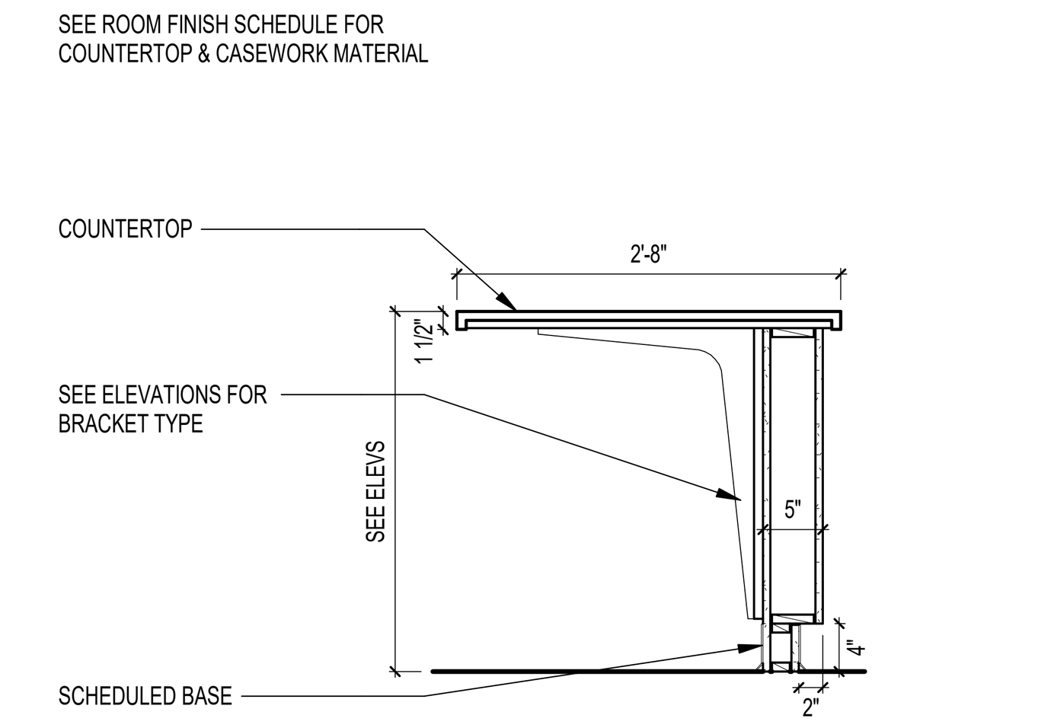
B4 (S SERIES) MASONRY PARTITION
1 1/2" = 1'-0"



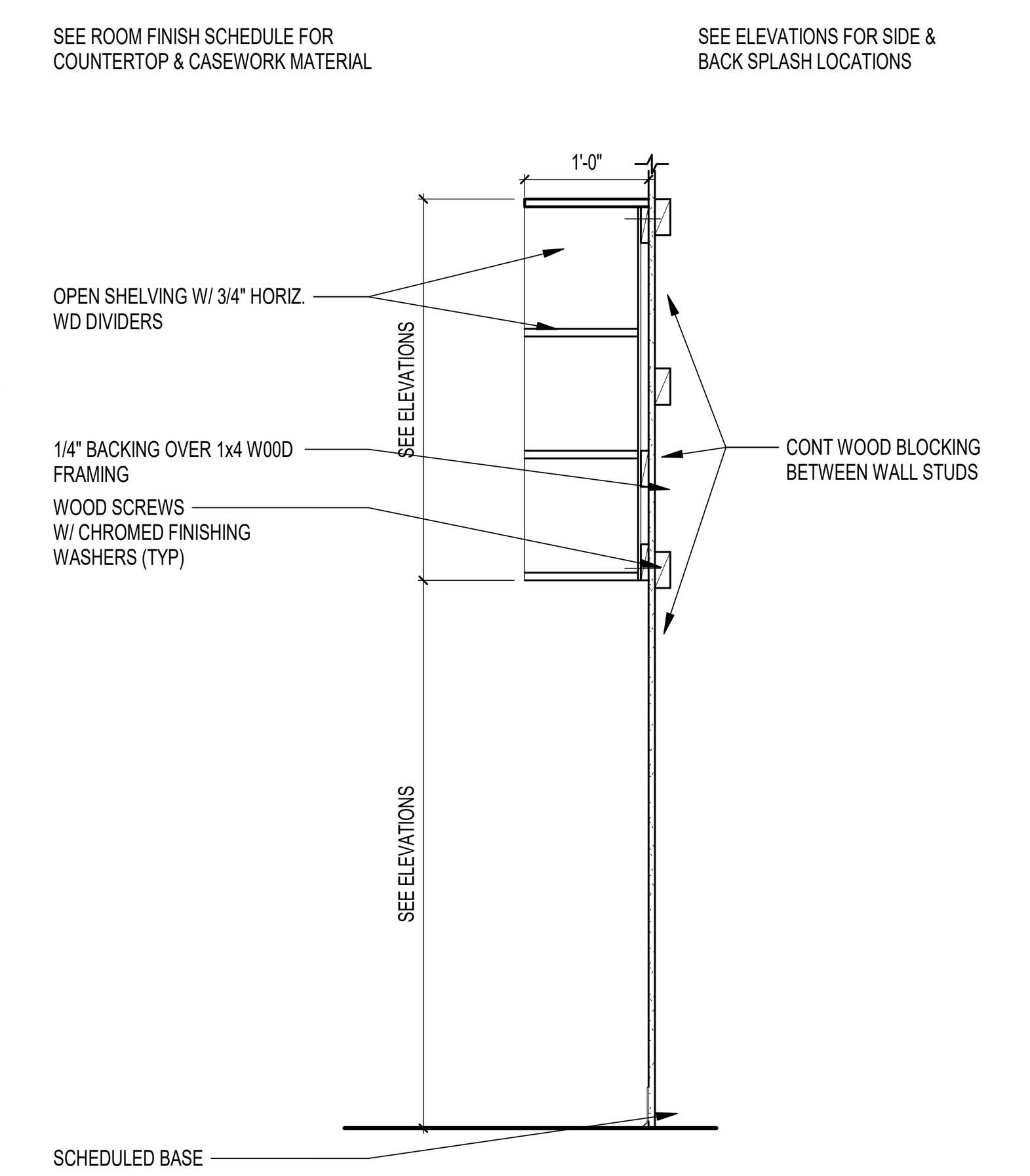
C1 COUNTERTOP BRACKET
3/4" = 1'-0"



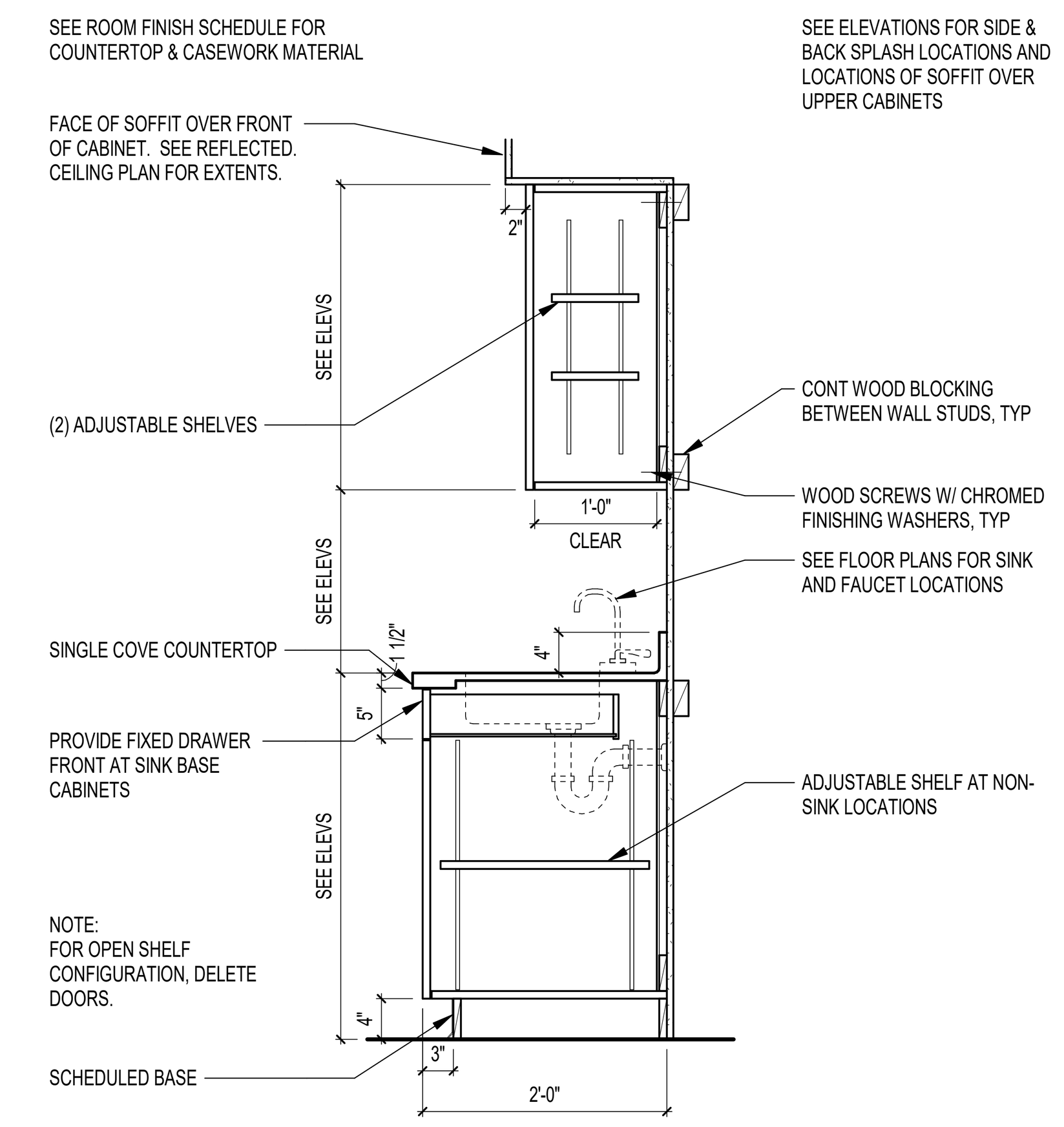
C3 RECEPTION DESK @ HIGH COUNTER
3/4" = 1'-0"



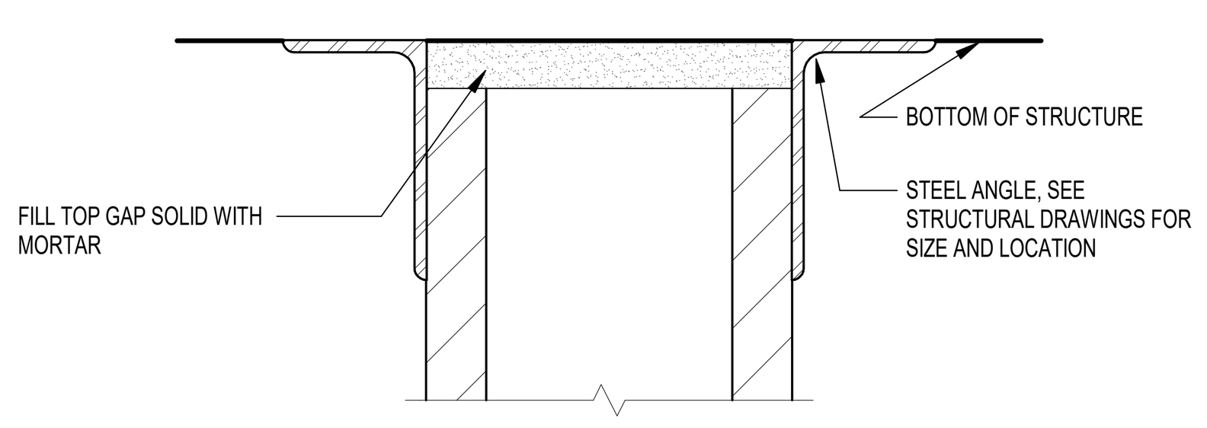
C4 RECEPTION DESK @ LOW COUNTER
3/4" = 1'-0"



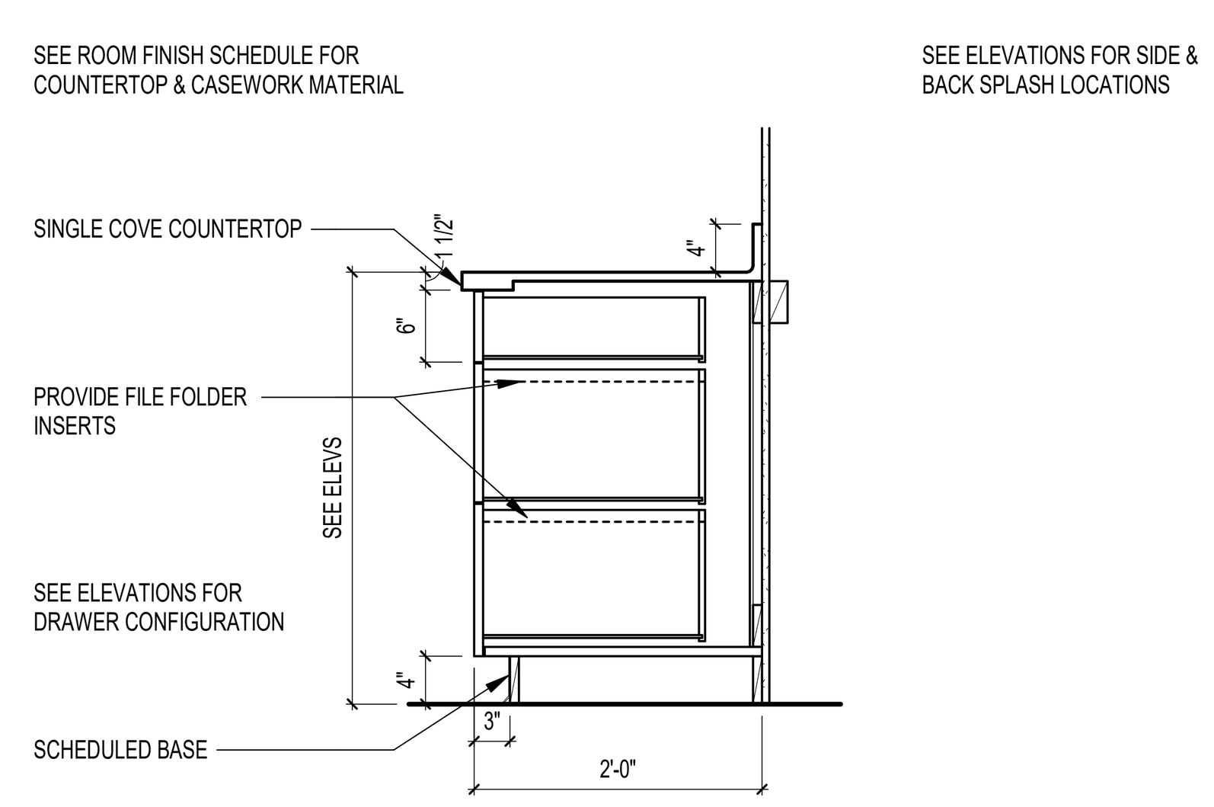
C5 MAIL CABINET
3/4" = 1'-0"



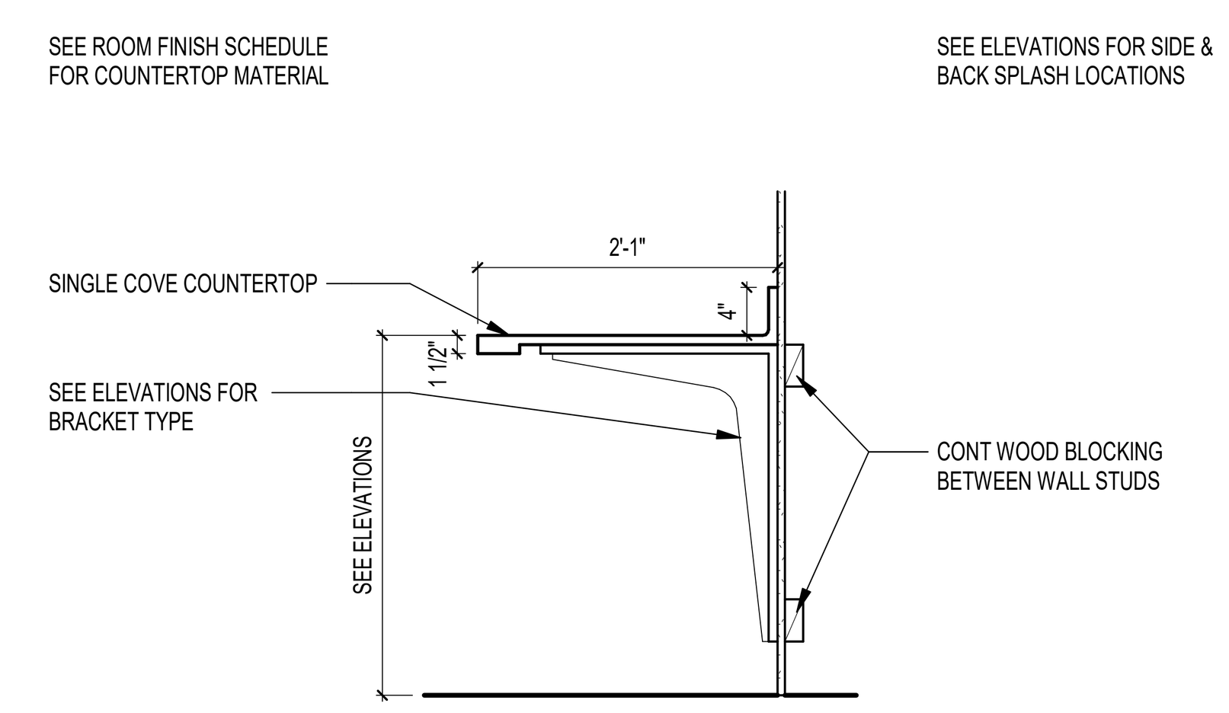
C6 BASE & UPPER CABINET (243630)1
3/4" = 1'-0"



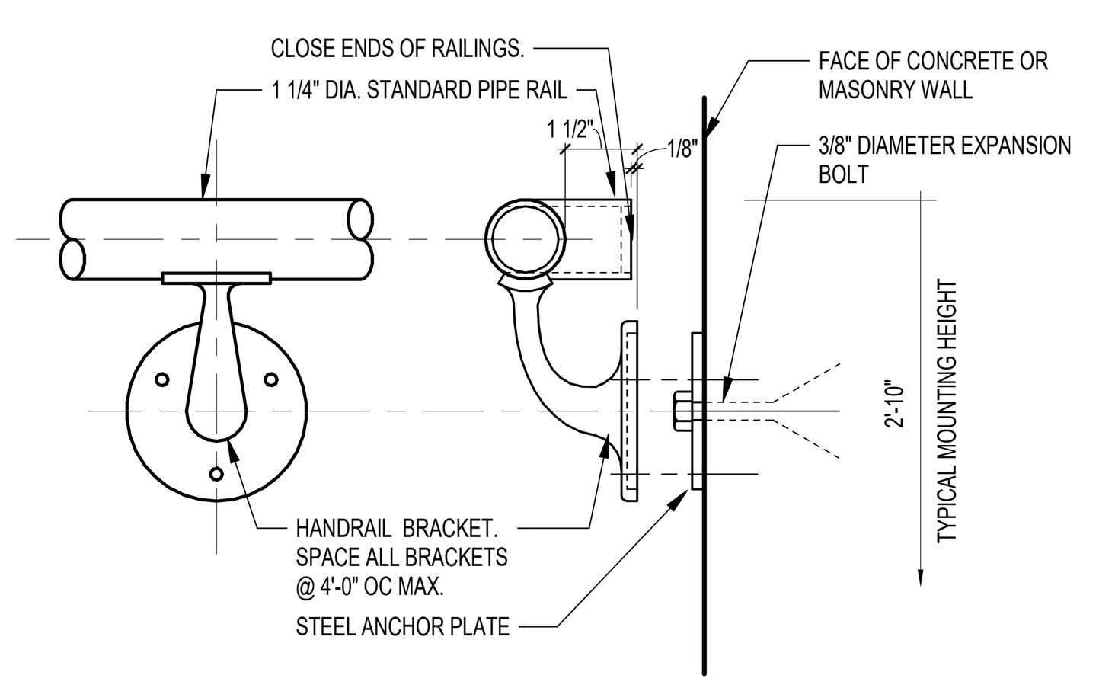
D1 MASONRY PART CLOSURE @ STRUCTURE
3" = 1'-0"



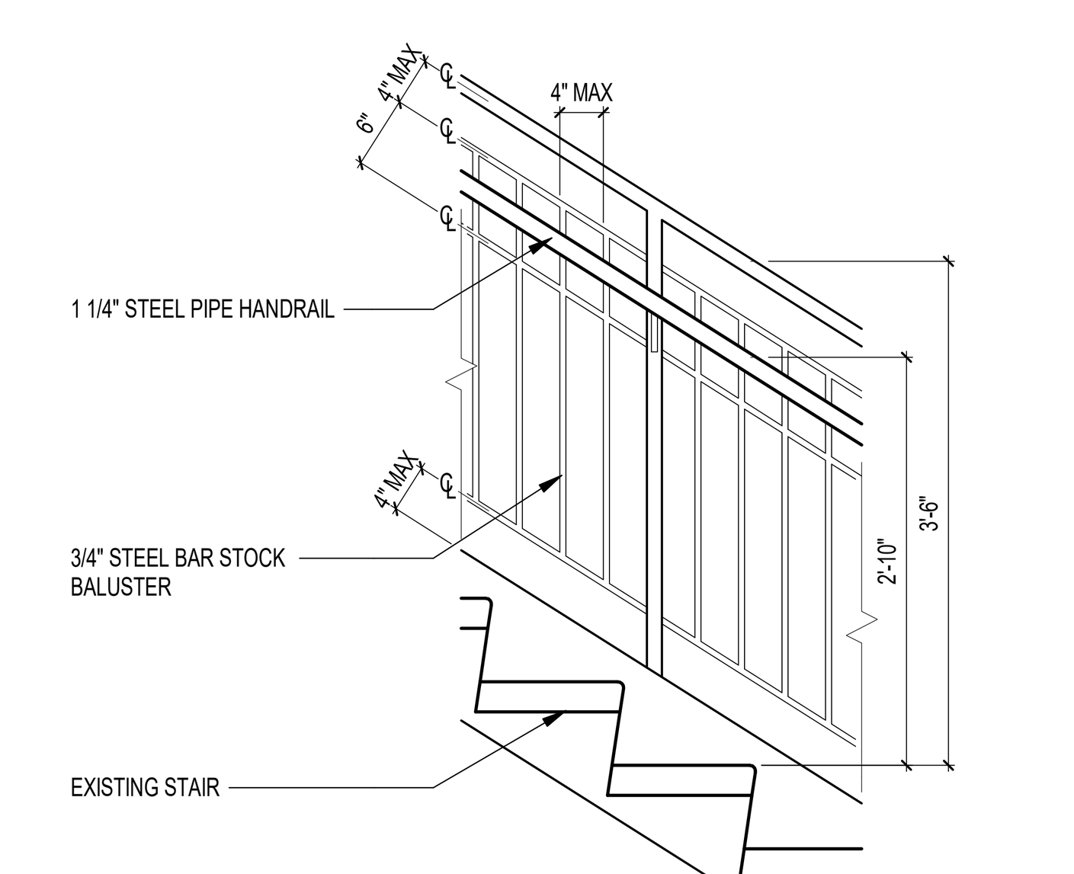
D2 BASE CABINET DRAWERS (2436)
3/4" = 1'-0"



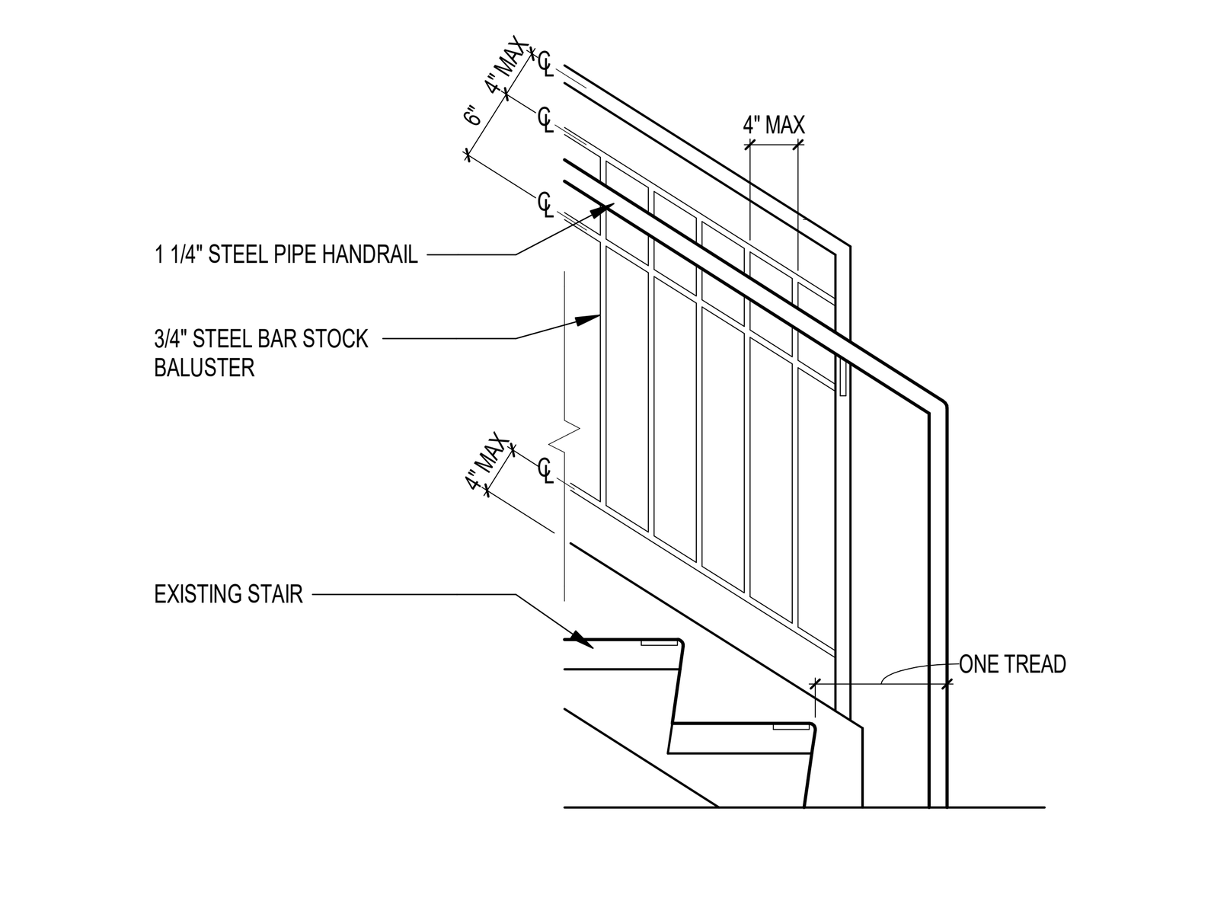
D3 WRITING SURFACE
3/4" = 1'-0"



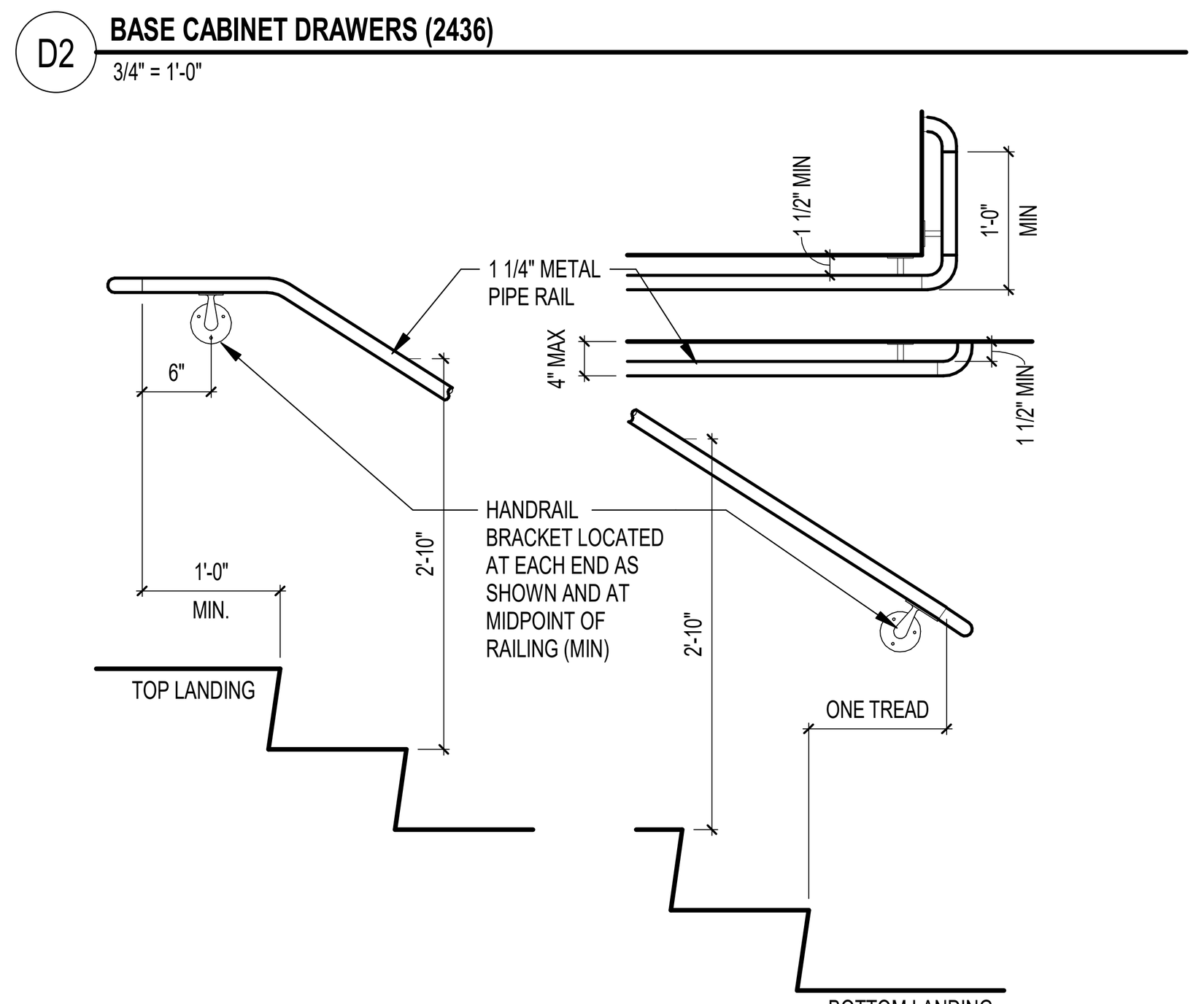
D4 METAL HANDRAIL WALL BRACKET
3" = 1'-0"



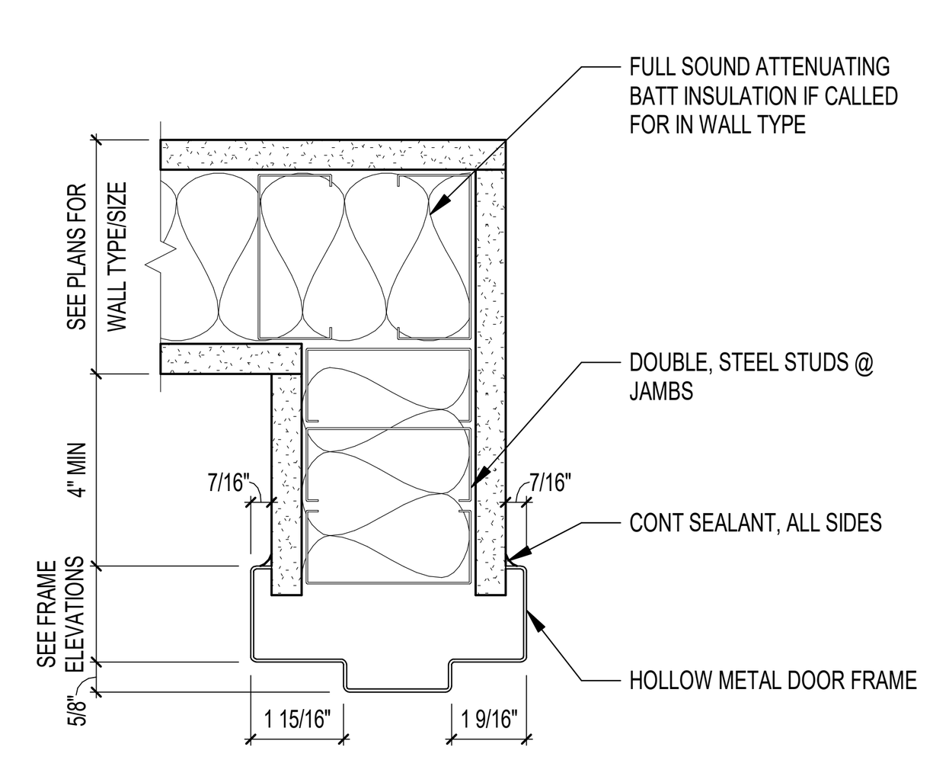
D5 TYPICAL RAILING ELEVATION
3/4" = 1'-0"



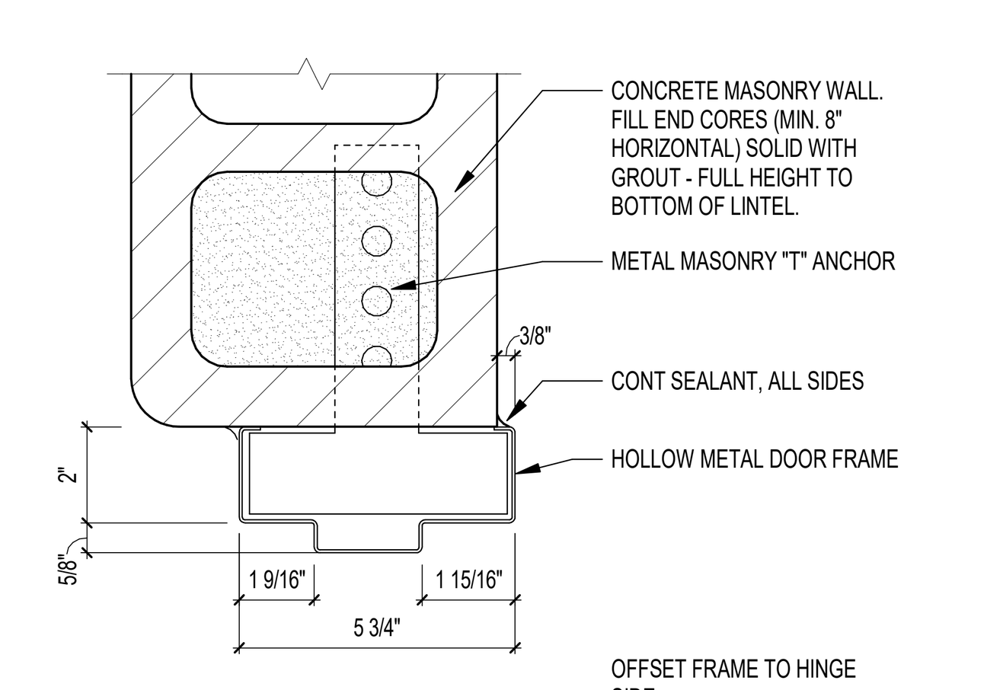
D6 STAIR BOTTOM LANDING
3/4" = 1'-0"



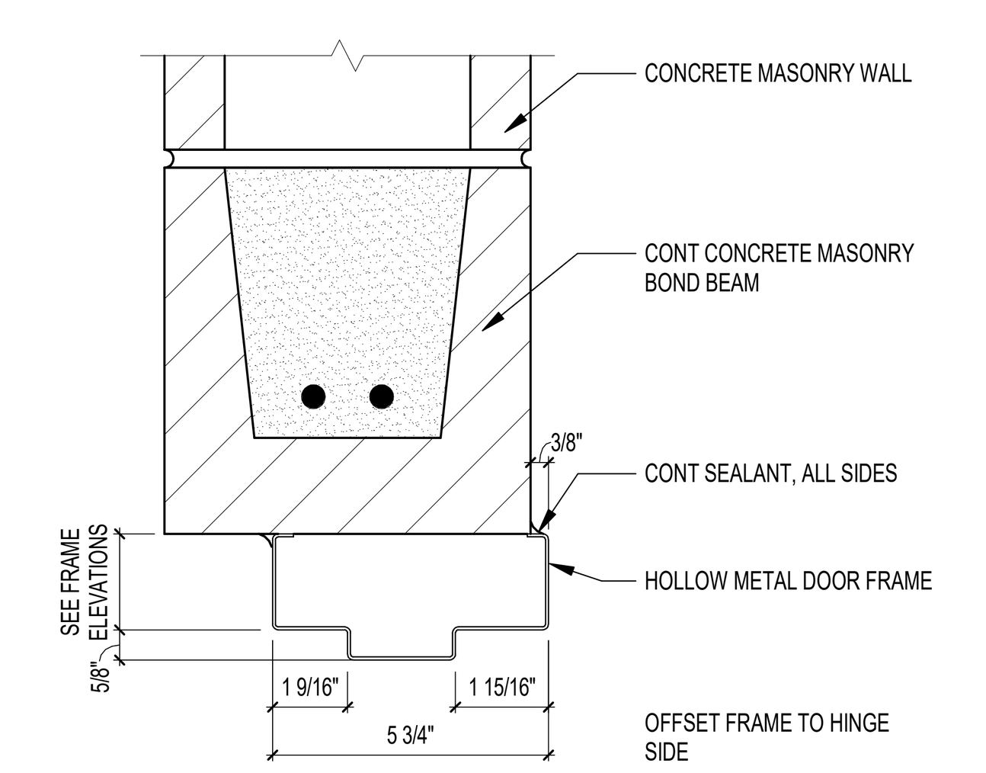
E2 WALL MOUNTED HANDRAIL EXTENSIONS
3/4" = 1'-0"



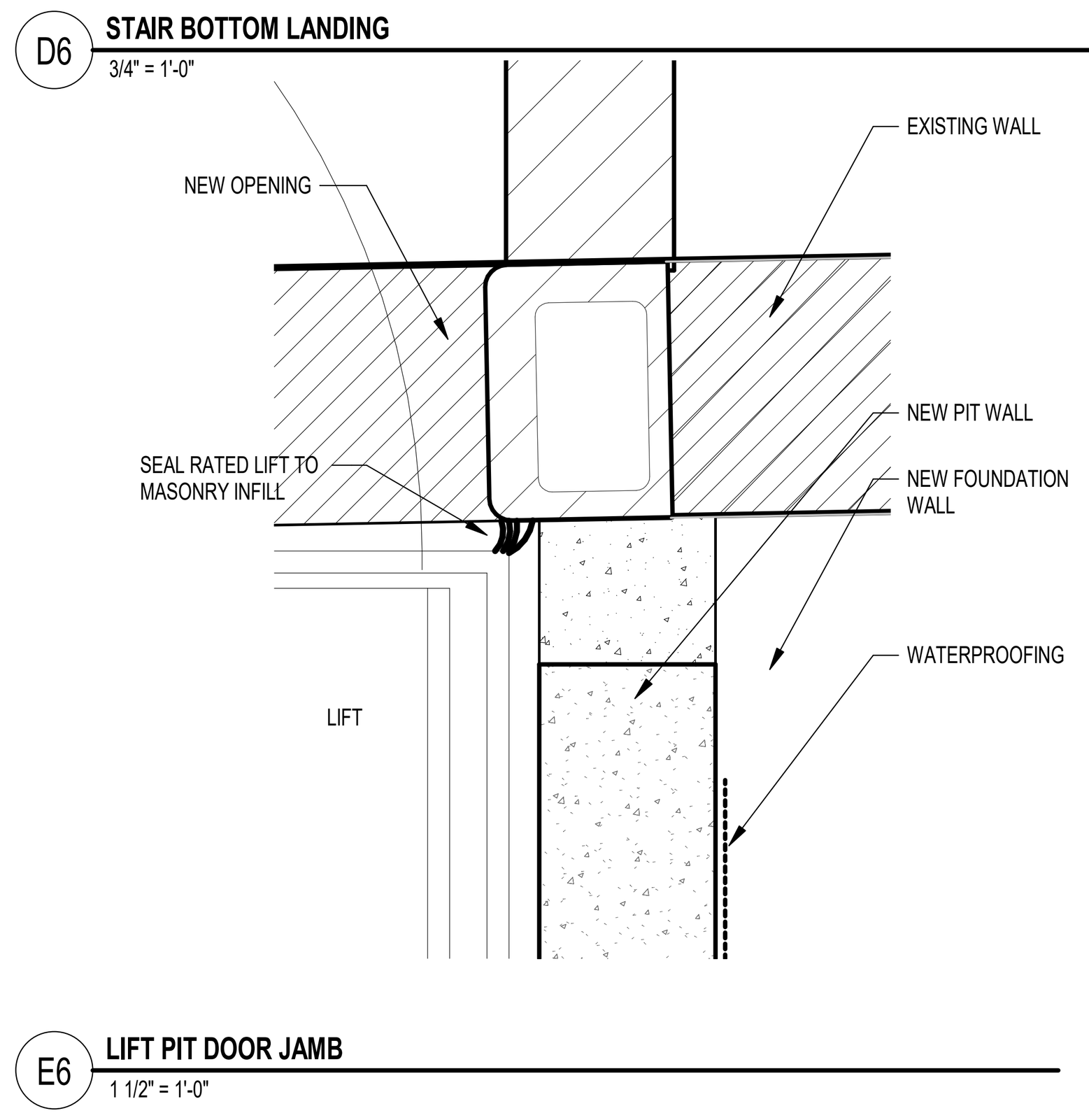
E3 HM FRAME JAMB @ STL STUD PARTITION_3
3" = 1'-0"



E4 HM FRAME JAMB @ CMU PARTITION_1
3" = 1'-0"



E5 HM FRAME HEAD @ CMU PARTITION (BB)
3" = 1'-0"



E6 LIFT PIT DOOR JAMB
1 1/2" = 1'-0"

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A810

STANDARD ABBREVIATIONS

[	CHANNEL
A	AIR (MEDICAL)
AC	ACOUSTICAL CEILING
ACM	ALUMINUM COMPOSITE MATERIAL, ASBESTOS CONTAINING MATERIAL
ADA	AMERICANS WITH DISABILITIES ACT
ADH	ADHESIVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ATTD	ATTACHED
AWP	ACOUSTICAL WALL PANEL
B	BASE
B/	BOTTOM OF
BB	BULLETIN BOARD
BD	BOARD
BF	BARRIER FREE
BL	BLINDS, BORROWED LITE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM OR BENCH MARK
BOT	BOTTOM
BR	BRICK
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	CARPET
CAB	CABINET
CB	CATCH BASIN
CBD	CHALK BOARD
CC	CUBICLE CURTAIN
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMPT	COMPARTMENT
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CR	CRASH RAIL, CARD READER
CRK	CORK (FLOORING)
CS	COMPUTER STATION
CT	CERAMIC TILE
CTR	CENTER OR COUNTER
CTSK	COUNTERSUNK
CUB	CUBICLE
CUH	CABINET UNIT HEATER
CURT	CURTAIN
DBL	DOUBLE
DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DP	DEPTH OR DEEP
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBD	ELECTRONIC MARKER BOARD
EP	ELECTRICAL PANEL
EQ	EQUAL
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
EXP	EXPOSED
EXT	EXTERIOR
EXTG	EXISTING
F	FILLER
FAB	FABRIC
FB	FACE BRICK
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER (BRACKET MTD.)
FER	FIRE EXTINGUISHER IN (RECESSED CAB.)
FES	FIRE EXTINGUISHER IN (SURFACE MTD. CAB.)
FESR	FIRE EXTINGUISHER IN (SEMI-RECESSED CAB.)
FF	FACTORY FINISH, FINISH FLOOR
FG	FIRE RATED SAFETY GLASS
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FL	FLUSH
FLR	FLOOR
FLRG	FLOORING
FLSHG	FLASHING
FM	FLOOR MAT
FND	FOUNDATION
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FTG	FOOTING
FV	FILM VIEWER, FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GR	GROUT
GRAN	GRANITE
GYP	GYPSUM
H	HEIGHT (HIGH)
HB	HOSE BIBB
HD	HAIR DRYER, HAND DRYER, HEAD OR HARD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IG	INSULATING GLASS
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
JAN	JANITOR
JST	JOIST
JT	JOINT
KD	KNOCKED-DOWN
KO	KNOCK(ED)-OUT
KS	KNEE SPACE
KT	KEYBOARD TRAY
L	ANGLE
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LG	LONG, LAMINATED GLASS
LIN	LINOLEUM
LKR	LOCKER
LL	LEAD LINED
LSJ	LONG SPAN JOIST
LT	LIGHT
MAS	MASONRY
MAX	MAXIMUM
MBD	MARKER BOARD
MBL	MARBLE
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MG	MONOLITHIC FLOAT GLASS
MICRO	MICROWAVE
MIN	MINIMUM, MINUTE

STANDARD ABBREVIATIONS

MISC	MISCELLANEOUS
MJT	MOVEMENT JOINT
MLAM	METAL LAMINATE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NC	NURSE CALL STATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
PA	PAINT
PAD	PAINT, DRYWALL
PAE	PAINT WITH EGGSHELL FINISH
PAF	PAINT WITH FLAT FINISH
PART	PARTITION
PAS	PAINT WITH SEMI-GLOSS FINISH
PASS	PASSAGE
PAT	PAINT WITH SATIN FINISH
PAX	PAINT, EPOXY
PBD	PARTICLE BOARD
PC	PRE-CAST
PE	POURED EPOXY
PERP	PERPENDICULAR
PG	PATTERNED GLASS
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PP	PUSH PLATE (BARRIER FREE DOOR ACTIVATOR)
PPT	PARAPET
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PT	PRESERVATIVE TREATED OR PORCELAIN TILE
PTD	PAPER TOWEL DISPENSER
PTM	PATCH TO MATCH
PTS	PNEUMATIC TUBE STATION
PU	POURED URETHANE
QT	QUARRY TILE
QTZ	QUARTZ SURFACING MATERIAL
R	RISER, RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RBR	RUBBER, RUBBER FLOORING
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
REV	REVISION
RF	RESILIENT FLOORING
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING, REVERSE OSMOSIS
RST	RESILIENT STAIR TREAD
RT	RESILIENT TILE
RTU	ROOFTOP UNIT
S	SWITCH
SC	SPECIAL COATING
SCHD	SCHEDULE
SCONC	SEALED CONCRETE
SD	SOAP DISPENSER
SG	SPANDREL GLASS
SGT	STRUCTURAL GLAZED TILE
SHT	SHEET
SIM	SIMILAR
SL	SLATE
SLD	SOLID SURFACING MATERIAL
SM	SHEET METAL
SND/D	SANITARY NAPKIN DISPENSER/DISPOSAL UNIT
SPF	SPRAY POLYURETHANE FOAM
SPG	SPECIALTY GLASS
SQ	SQUARE
SS	STAINLESS STEEL
ST	STONE
STC	STORAGE CABINET
STCONC	STAINED CONCRETE
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
T & G	TONGUE AND GROOVE
T/	TOP OF
TBD	TACK BOARD
TEL	TELEPHONE
TEMP	TEMPERED OR TEMPORARY
TER	TERRAZZO
TH	THICK(NESS)
TLT	TOILET
TOB	TOP OF BEAM
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOS	TOP OF SLAB OR TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPG	TOPPING
TPH	TOILET PAPER HOLDER
TS	TUBING, STRUCTURAL OR TRANSITION STRIP
TV	TELEVISION OR TV OUTLET
TWC	TACKABLE WALL COVERING
TYP	TYPICAL
UC	UNDER COUNTER OR CABINET
UCD	UNDERCUT DOOR
UCL	UNDER CABINET LIGHT
UH	UNIT HEATER
UNEXC	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
V	VINYL
VAC	VACUUM
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
W	WIDTH OR WIDE
W/	WITH
W/O	WITHOUT
WC	WALL COVERING
WD	WOOD
WDW	WINDOW
WDWK	WOOD WORK
WF	WIDE FLANGE
WLHG	WALL HUNG
WRC	WARDROBE CABINET
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCEMENT

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING		CASEWORK		COMMENTS	REV
				NORTH	EAST	SOUTH	WEST	TYPE	FINISH	CABINET	COUNTERTOP		
FIRST FLOOR													
101	LOBBY	C-2	RB-1	PAS-1,4	PAS-1,4	PAS-1.4	PAS-1,4	SUSP/EXP	AC-1/PAD-1	--	--	6,7	
102	CORR	EXTG	EXTG/RB	EXTG	EXTG/PAS-1,4	--	EXTG	EXTG	EXTG	--	--	6	
103	ALCOVE	PT-1	PT-2	CT-1,2,3	CT-1,2,3	CT-1,2,3	CT-1,2,3	EXP	PAD-1	--	--	2	
104	GYM ENTRY	EXTG	EXTG/RB	EXTG	EXTG	EXTG/PA	EXTG	EXTG	EXTG	--	--	1	
106	FLEX SPACE	C-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-2	EXP	PAD-1	--	--	1	
106A	DATA	C-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	EXTG	EXTG	--	--	1	
107	ALCOVE	C-2	RB-1	PAS-1	PAS-1	PAS-1	--	EXTG	EXTG	--	--	1	
108	TUTORING	C-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-2	EXP	PAD-1	--	--	1	
109	WAITING	C-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	SUSP	AC-1	--	--		
110	RECEPTION	C-1	RB-1	--	PAS-1	PAS-1	PAS-2	SUSP/GYP	AC-1/PAS-2	PLAM-1,3	PLAM-2/QTZ-1	5	
110A	LIFT	--	--	--	--	--	--	--	--	--	--		
112	CONF./PRIN.	C-1	RB-1	PAS-2	PAS-1	PAS-1	PAS-1	SUSP	AC-1	--	--		
113	HEALTH	VT-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	SUSP	AC-1	PLAM-1	PLAM-2		
117	ELECTRICAL												
120	JAN/STOR	EXTG	EXTG	EXTG	EXTG	EXTG	EXTG/FRP-1	EXTG	EXTG	--	--	1,4	
T104	BOYS TLT	PT-1,3	PT-2	CT-1,2,3	CT-1,2,3	CT-1,2,3	CT-1,2,3	EXP	PAD-1	--	--	2,3,8	
T105	GIRLS TLT	PT-1	PT-2	CT-1,2,3	CT-1,2,3	CT-1,2,3	CT-1,2,3	EXP	PAD-1	--	--	2,3,8	
T111	TLT	PT-1	PT-2	CT-1,2,3	PAS-1	PAS-1	CT-1,2,3	SUSP	AC-2	--	--	2,8	
T114	TLT	PT-1	PT-2	CT-1,2,3	CT-1,2,3	PAS-1	PAS-1	SUSP	AC-2	--	--	2,8	
V100	VEST	C-2	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	SUSP	AC-1	--	--		

ROOM FINISH GENERAL NOTES:

A. ALL WINDOW STOOLS TO BE SLD-1.
B. ALL FACES AND UNDERSIDES OF SOFFITS TO BE PAINTED ADJACENT WALL COLOR.
C. PAINT ALL MISC. METAL/GRILLES, ETC. TO MATCH PAINT OF ADJACENT WALL.
D. ALL WINDOWS TO RECEIVE RS-1.
E. ALL OUTSIDE TILE CORNERS AND BASE WITHOUT TILE ABOVE TO RECEIVE TRIM TR-1 AND TILE FLOORING TRANSITIONS TO RECEIVE TR-2.
F. REFER TO THE FLOOR PATTERN PLAN FOR CORNER GUARD LOCATIONS.
G. ALL TACK BOARDS AND TACK STRIPS TO BE TWC-2.

ROOM FINISH SCHEDULE COMMENTS:

1. PATCH TO MATCH EXISTING FINISHES AS NECESSARY.
2. REFER TO TYPICAL WALL TILE PATTERN FOR DETAILS. C6 / A800
3. PROVIDE TP-1.
4. PROVIDE FRP-1 AT MOP SINK 4'-0" AFF. REFER TO ELEVATION.
5. FRONT OF RECEPTION DESK TO BE PLAM-3. WORKSURFACE TO BE PLAM-2 AND TRANSACTION TOP TO BE QTZ-1. PROVIDE TWC-1 BETWEEN WORKSURFACE AND TRANSACTION TOP. CASEWORK ON THE WEST WALL TO BE PLAM-1 WITH PLAM-2 COUNTER TOPS. MAILBOXES TO BE PLAM-1. REFER TO ELEVATIONS FOR DETAILS.
6. MATCH EXISTING PAINT PATTERN.
7. PATCH EXISTING CARPET DIRECTION.
8. REFER TO FLOOR PATTERN PLAN FOR DETAILS.

DOOR SCHEDULE

DOOR NUMBER	ROOM NUMBER	ROOM NAME	DOOR					FRAME		DOOR RATING	HARDWARE GROUP	COMMENTS	REV
			SIZE	TYPE	MATERIAL	FINISH	GLASS	TYPE	FINISH				
GYM													
117	117	ELECTRICAL	3'-0"W x 7'-0"H	F : 1	WD	STN	-	HM2 : B	PA	-	1.8	-	
FIRST FLOOR													
106	106	FLEX SPACE	3'-0"W x 7'-0"H	F : 1	WD	STN	-	HM2 : B	PA	-	8.3	-	
106A	106A	DATA	3'-4"W x 7'-0"H	F : 1	WD	STN	-	HM2 : B	PA	-	8.6	9	
109	109	WAITING	3'-0"W x 7'-0"H	FG : 5	AL	ANOD	MGT	AL : 06	ANOD	-	10.0	-	
109.1	109	WAITING	3'-0"W x 7'-0"H	FG : 5	AL	ANOD	IGT	AL : 05	ANOD	-	10.0	-	
112	112	CONF./PRIN.	3'-0"W x 7'-0"H	N : 4	WD	STN	MGT	HM2 : B	PA	-	7.1	-	
113	113	HEALTH	3'-0"W x 7'-0"H	F : 1	WD	STN	-	HM2 : B	PA	-	7.1	9	
T111	T111	TLT	3'-0"W x 7'-0"H	F : 1	WD	STN	-	HM2 : B	PA	-	4.1	9	
T114	T114	TLT	3'-0"W x 7'-0"H	F : 1	WD	STN	-	HM2 : B	PA	-	4.0	9	
V100	V100	VEST	3'-0"W x 7'-0"H	FG : 5	AL	ANOD	MGT	AL : 01	ANOD	-	1.6	-	
V100.1	V100	VEST	3'-0"W x 7'-0"H	FG : 5	AL	ANOD	MGT	AL : 01	ANOD	-	1.6	-	
V100.2	V100	VEST	3'-0"W x 7'-0"H	FG : 3	AL	ANOD	IGT	AL : 02	ANOD	-	1.6	-	
V100.3	V100	VEST	3'-0"W x 7'-0"H	FG : 3	AL	ANOD	IGT	AL : 02	ANOD	-	1.6	-	

GENERAL DOOR NOTES:

A. ALL METAL, FRAMES AND MISC. METAL TO BE PAINTED PAS-3.
B. ALL WOOD DOORS TO BE STAINED STN-1.
C. DOOR NUMBER IS IDENTICAL TO NUMBER OF ROOM IN WHICH DOOR OCCURS. IN CASES OF MULTIPLE DOORS IN ONE ROOM, SUFFIXES ARE ADDED TO DOOR NUMBER.
D. ALL DOORS ARE 1-3/4" THICK, UNLESS NOTED OTHERWISE.
E. ALL DOORS RECEIVING PANIC HARDWARE - LITES TO BE 3'-6" AFF MINIMUM FOR HARDWARE CLEARANCE BELOW LITE.

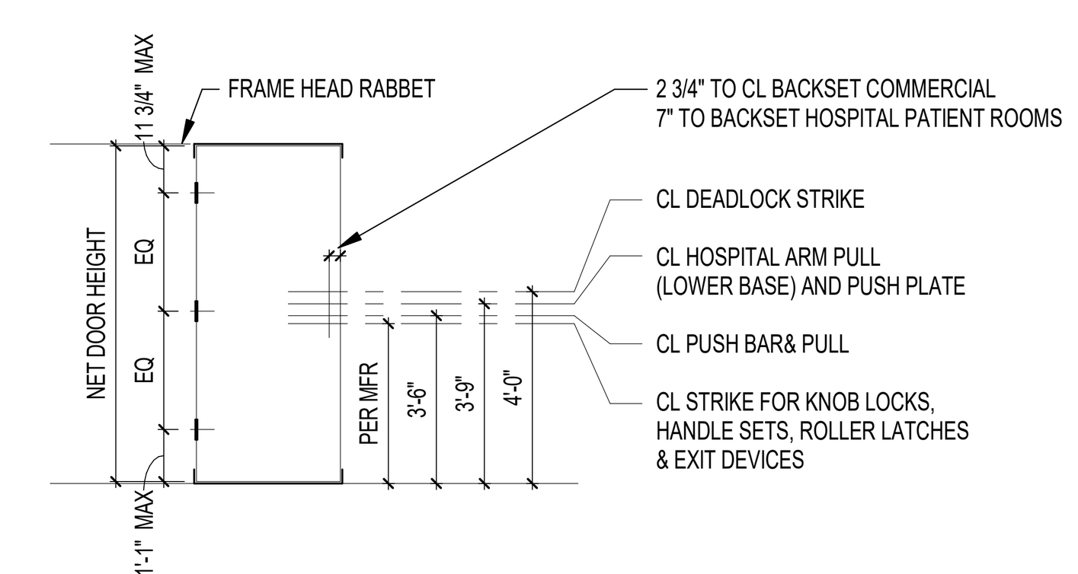
DOOR SCHEDULE COMMENTS:

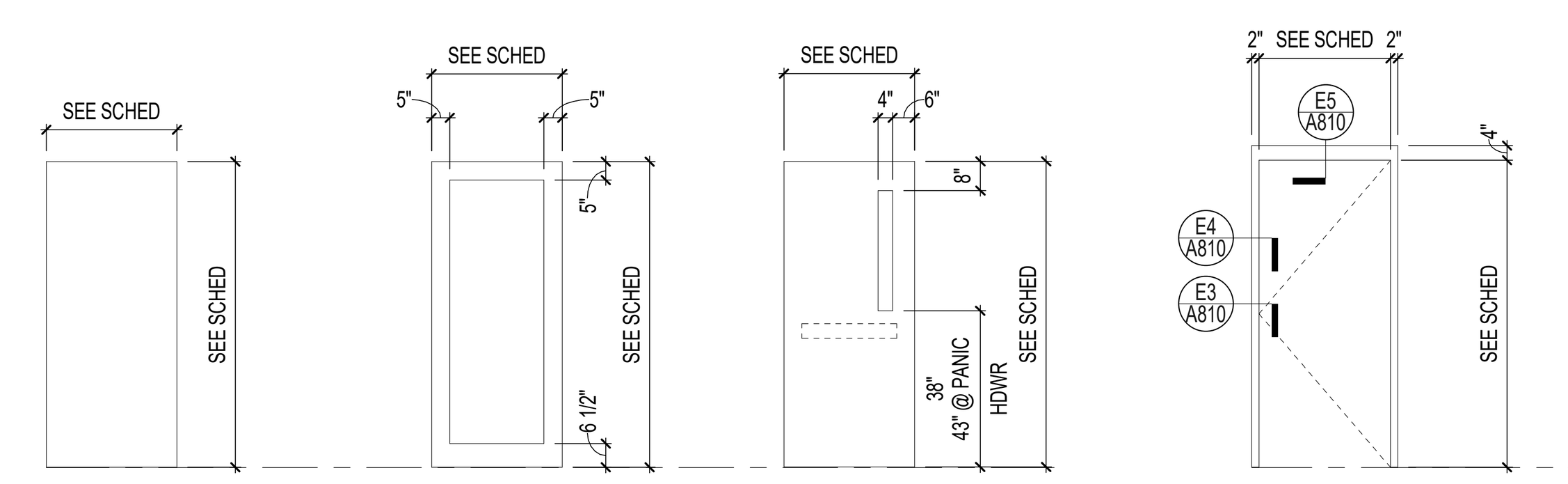
1. SEE EXTERIOR ELEVATIONS OR FLOOR PLANS FOR FRAME TYPES.
2. MAGNETIC HOLD-OPEN, TIE TO FIRE ALARM
3. MAGNETIC HOLD-OPEN, TIE TO REMOTE LOCKDOWN
4. ELECTRIC STRIKE OR LOCK
5. CARD ACCESS
6. REMOVABLE MULLION.
7. CLOSER
8. AUTOMATIC SWING DOOR OPERATOR
9. 1" DOOR UNDERCUT. REFER TO MECHANICAL DRAWINGS

GLAZING SCHEDULE:

MGT MONOLITHIC FLOAT GLASS - FULLY TEMPERED
FG FIRE-RATED SAFETY GLASS
IGT INSULATING GLASS - FULLY TEMPERED

DOOR HARDWARE GRAPHIC





F-1
FLUSH DOOR

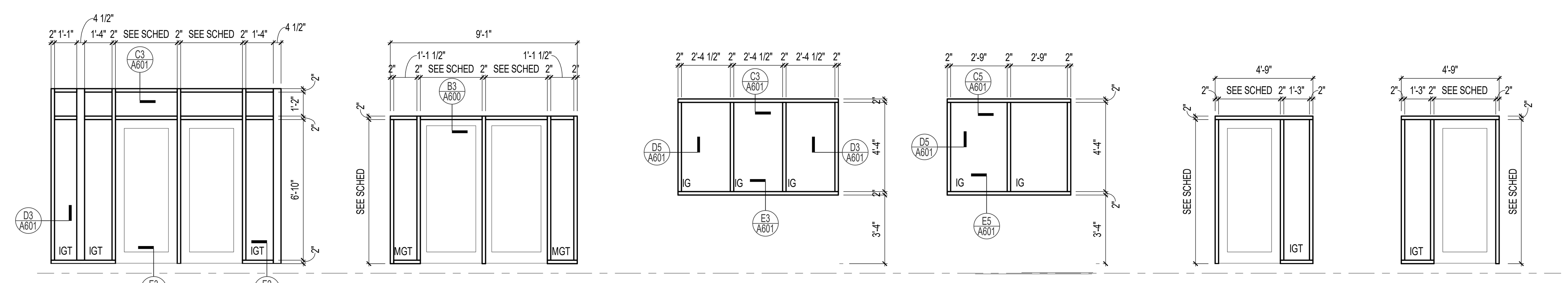
FG:5
ENTRANCE
(MEDIUM STILE)

N:4
FLUSH DOOR
W/ NARROW GLASS

HM:2B
HOLLOW METAL FRAME

DOOR TYPES

FRAME ELEVATIONS



AL01
EXTERIOR ALUMINUM STOREFRONT

AL02
INTERIOR ALUMINUM STOREFRONT

AL03
EXTERIOR ALUMINUM STOREFRONT

AL04
EXTERIOR ALUMINUM STOREFRONT

AL05
EXTERIOR ALUMINUM STOREFRONT

AL06
EXTERIOR ALUMINUM STOREFRONT

ALUMINUM FRAME ELEVATIONS

MATERIAL SCHEDULE

CODE	MATERIAL	NAME & NUMBER	MANUFACTURER	REV
INTERIOR ARCHITECTURAL WOODWORK - DIVISION 6				
PLAM-1	PLASTIC LAMINATE	7994-38 LOWELL ASH; FINE VELVET FINISH	WILSONART	
PLAM-2	PLASTIC LAMINATE	P-405CA VALENKI GREY	ARBORITE	
PLAM-3	PLASTIC LAMINATE	Y0661-60 CRIMSON HONEYCOMB; MATTE FINISH	WILSONART	
QTZ-1	QUARTZ	MANHATTAN Q1016	WILSONART	
SLD-1	SOLID SURFACE	CHILLED EARTH 9228SS	WILSONART	
*	PVC EDGE BANDING	TO BE DETERMINED	TO BE DETERMINED	
TILE - DIVISION 9				
CT-1	CERAMIC TILE	BRIGHT & MATTE PROFILES, ICE WHITE 0025, 3" X 6"	AMERICAN OLEAN	
CT-2	CERAMIC TILE	BRIGHT & MATTE PROFILES, LIGHT SMOKE 0042, 3" X 6"	AMERICAN OLEAN	
CT-3	CERAMIC TILE	SEMI-GLOSS, VERMILLION 0DM1, 3" X 6"	DALTILE	
PT-1	PORCELAIN TILE (FLOOR)	ARGENT, ON THE ROCKS 12" X 24"; UNPOLISHED	CROSSVILLE/VIRGINIA TILE	
PT-2	PORCELAIN TILE (BASE)	ARGENT, ON THE ROCKS 6" X 12" COVE BASE; UNPOLISHED	CROSSVILLE/VIRGINIA TILE	
PT-3	PORCELAIN TILE (FLOOR)	ARGENT, ON THE ROCKS 6" X 6"; UNPOLISHED	CROSSVILLE/VIRGINIA TILE	
TR-1	TRANSITION STRIP	SCHLUTER, JOLLY; STAINLESS STEEL	SCHLUTER	
TR-2	TRANSITION STRIP	SCHLUTER, SCHIENE; STAINLESS STEEL	SCHLUTER	
GR-1	GROUT	TRU COLOR, FRENCH GRAY H142	BOSTIK	
GR-2	GROUT	TRU COLOR, MISTY GRAY H144	BOSTIK	
ACOUSTICAL CEILING - DIVISION 9				
AC-1	ACOUSTICAL CEILING	CANYON 1490, SQUARE LAY-IN, 24" X 24" X 5/8" WHITE WITH 15/16" PRELUDE GRID, WHITE	ARMSTRONG	
AC-2	ACOUSTICAL CEILING	#868 CLEAN ROOM VL, SQUARE LAY-IN, UNPERFORATED, 2' X 2' X 5/8", WITH 15/16" PRELUDE GRID, WHITE	ARMSTRONG	
RESILIENT FLOORING - DIVISION 9				
RB-1	RESILIENT BASE	4" VINYL BASE; TO MATCH EXISTING SCHOOL STANDARD	JOHNSONITE	
VT-1	VINYL TILE	MATUTO PLUS, 927 SONIC SILVER, 12" X 24"	MOHAWK	
*	TRANSITION STRIP	TO BE DETERMINED	TO BE DETERMINED	
CARPET - DIVISION 9				
C-1	CARPET (TILE)	CENTRAL LINE TILE 5T176, COLOR MARKET RED 72506; 9" X36" WITH ECOWORX TILE BACKING	SHAW CONTRACT	
C-2	CARPET (WALK OFF)	STEP REPEAT SR999, COLOR 104945 ONYX, 50CM X 50CM WITH GLASBAC TILE BACKING	INTERFACE	
*	TRANSITION STRIP	TO BE DETERMINED	TO BE DETERMINED	
TACKABLE WALLCOVERING - DIVISION 9				
TWC-1	TACKABLE WALL PANEL	GAMUT, 3468-808 PEWTER	DESIGNTEX	
TWC-2	TACKABLE WALLCOVERING	2182 POTATO SKIN	FORBO	
PAINTING / STAINING - DIVISION 9 (REFER TO ROOM FINISH SCHEDULE FOR FINISH DESIGNATION) PAD, PAE, PAF, PAS, PAT or PAX				
PA-1	PAINT	MILTON STANDARD WHITE - JUICE VANHORN	HALLMAN LINDSAY	
PA-2	PAINT	SW7668 MARCH WIND	SHERWIN WILLAIMS	
PA-3	PAINT	TO MATCH EXISTING DOOR FRAMES	HALLMAN LINDSAY	
PA-4	PAINT	MILTON STANDARD PEPPERCORN	HALLMAN LINDSAY	
STN-1	STAIN	TO MATCH PLAM-1	--	
MISC SPECIALTIES - DIVISION 10				
CG-1	CORNER GUARD	1/2" STAINLESS STEEL FULL HEIGHT	INPRO	
FRP-1	FIBERGLASS REINFORCED PLASTIC	BRITE WHITE P-199 PEBBLE TEXTURED, CLASS A	MARLITE	
INTERIOR SIGNAGE - DIVISION 10				
SIGN-1	INTERIOR SIGNAGE	TO MATCH SCHOOL STANDARD	--	
TOILET COMPARTMENTS - DIVISION 10				
TP-1	TOILET PARTITION - PLASTIC	CHARCOAL #9237	ASI	
WINDOW TREATMENT - DIVISION 12				
RS-1	ROLLER SHADES	ENLIGHTENED STYLE E SCREEN 3% OPENNESS, COLOR R8108 CHARCOAL/GRAY	BUDGET BLINDS/HUNTER DOUGLAS	

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SCHOOL DISTRICT OF MILTON
CONSOLIDATED - ADDITION & RENOVATION

4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

REVISIONS:

ABBREVIATIONS, SCHEDULES, DOOR & FRAME TYPES

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO:

► BUILDING CODES
- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE 2018 WISCONSIN COMMERCIAL BUILDING CODE AS CONTAINED IN CHAPTERS SPS 361 TO 366 OF THE WISCONSIN ADMINISTRATIVE CODE.

RISK CATEGORY	III

► DESIGN LOADS AND DATA
- ROOF LOADS

DEAD	25 PSF
LIVE ROOF	20 PSF
GROUND SNOW (p_g)	30 PSF
SNOW DENSITY	17.9 PCF
ROOF EXPOSURE	PARTIALLY EXPOSED
SNOW IMPORTANCE FACTOR (I_s)	1.10
SNOW EXPOSURE FACTOR (C_e)	1.0
THERMAL FACTOR - BUILDING (C_t)	1.0
FLAT ROOF SNOW LOAD (p_f)	23.1 PSF
DRIFT LOAD	PER ASCE 7-10 AND AS NOTED ON DRAWINGS
MECHANICAL EQUIPMENT, PIPING AND ROOF TOP AHU'S	AS NOTED ON DRAWINGS

- WIND DATA

BASIC WIND SPEED (3 SECOND GUST)	120 MPH
BUILDING ENCLOSURE	ENCLOSED
EXPOSURE	C
WIND DIRECTIONALITY FACTOR (K_d)	0.85
TOPOGRAPHIC FACTOR (K_{zt})	1.0
GUST FACTOR (BUILDING IS RIGID) (G)	0.85
INTERNAL PRESSURE COEFFICIENT (GC_{pi})	± 0.18
ANALYSIS PROCEDURE	CHAPTER 28
COMPONENTS AND CLADDING	SEE ADJACENT TABLE

- SEISMIC DATA

SEISMIC IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S_S)	0.098
MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (S_1)	0.050
SITE CLASS PER GEOTECHNICAL REPORT	C
DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S_{DS})	0.078
DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (S_{D1})	0.057
SEISMIC DESIGN CATEGORY	A
ANALYSIS PROCEDURE	ASCE SECTION 11.7 AND SECTION 1.4

► MATERIAL STRENGTHS AND STANDARDS
THE MATERIAL STRENGTHS AND STANDARDS LISTED HERE REPRESENT A SELECTED SUMMARY OF THE REQUIREMENTS NOTED IN THE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE SPECIFICATIONS, THESE NOTES SHALL GOVERN.

● SOILS	
DESIGN SOIL BEARING CAPACITY FOR SPREAD/STRIP FOOTINGS	2000 PSF (PER GEOTECH)
● CONCRETE (28 DAY STRENGTH)	
FOOTINGS	f'_c = 3,000 PSI
FOUNDATION WALLS, INTEGRAL PIERS	f'_c = 4,000 PSI
INTERIOR SLAB-ON-GRADE	f'_c = 4,000 PSI
EXTERIOR SLAB-ON-GRADE	f'_c = 4,500 PSI
● REINFORCING STEEL	
WELDED WIRE FABRIC, PROVIDED IN FLAT SHEETS ONLY (ASTM A185)	f_y = 65,000 PSI
DEFORMED BARS (ASTM A615, GRADE 60)	f_y = 60,000 PSI
● MASONRY	
SOLID CONCRETE BRICK (ASTM C55)	3,500 PSI
CONCRETE MASONRY UNIT ASSEMBLY	f'_m = 2,250 PSI
CONCRETE MASONRY UNIT (ASTM C90 - LIGHTWEIGHT)	3,275 PSI
MORTAR (ASTM C270)	TYPE S
GROUT (ASTM C476)	f'_c = 3,000 PSI
ANCHOR RODS (ASTM F1554, GRADE 36)	f_y = 36,000 PSI
● STRUCTURAL STEEL (SHAPES)	
WF, WT SECTIONS (ASTM A992)	F_y = 50,000 PSI; F_u = 65,000 PSI
M, S, HP SECTIONS, CHANNELS, ANGLES (ASTM A36)	F_y = 36,000 PSI; F_u = 58,000 PSI
HSS SHAPES – RECTANGULAR (ASTM A500, GRADE C)	F_y = 50,000 PSI; F_u = 62,000 PSI
PLATES (ASTM A36)	F_y = 36,000 PSI; F_u = 58,000 PSI
● STRUCTURAL STEEL (CONNECTIONS)	
HIGH STRENGTH BOLTS (1 1/2" MAXIMUM DIAMETER)	A325AS NOTED
WELDING ELECTRODES	E70XX
SHEAR STUD CONNECTORS (ASTM A108, GRADE 1010 THROUGH 1020)	F_y = 50,000 PSI
THREADED RODS (ASTM A36)	F_y = 36,000 PSI

► GENERAL NOTES
- EXISTING CONDITIONS

INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THE STRUCTURAL DRAWINGS REPRESENTS THE ACTUAL EXISTING FIELD CONDITION TO THE BEST OF OUR KNOWLEDGE. R.A. SMITH, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS, DIMENSIONS AND BUILDING CONDITIONS AFFECTING THE WORK BY DIRECT SURVEY AND MEASUREMENT PRIOR TO THE FABRICATION, ERECTION OR CONSTRUCTION OF ANY ITEM IMPACTED BY EXISTING CONDITIONS. REPORT DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS FOR REVIEW. ANY WORK PERFORMED PRIOR TO THE RESOLUTION OF THE DISCREPANCIES IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

EXISTING STRUCTURE TO REMAIN IS SHOWN WITH LIGHT GRAY LINES. EXISTING STRUCTURE TO BE REMOVED IS NOT GENERALLY SHOWN ON STRUCTURAL DRAWINGS - SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION DRAWINGS.

ALL EXISTING STRUCTURE TO REMAIN TO BE SUPPORTED BY NEW CONSTRUCTION SHALL BE SHORED UNTIL NEW CONSTRUCTION IS IN PLACE, COMPLETED, AND CAPABLE OF SUPPORTING THE EXISTING STRUCTURE. EXISTING STRUCTURE TO REMAIN THAT IS AFFECTED, BUT NOT SUPPORTED, BY NEW CONSTRUCTION SHALL BE SHORED UNTIL IT IS NO LONGER AFFECTED BY CONSTRUCTION ACTIVITIES.

- CONSTRUCTION

UNLESS SPECIFICALLY NOTED OTHERWISE, BUILDING STRUCTURE HAS BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION ONLY, AND HAS NOT BEEN ANALYZED, INVESTIGATED OR DESIGNED FOR OVERALL STRUCTURE, OR INDIVIDUAL MEMBER, STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING AND SUPPORTS FOR ALL STRUCTURAL ELEMENTS, BOTH INDIVIDUALLY AND COLLECTIVELY, AS REQUIRED AT EVERY STAGE OF CONSTRUCTION UNTIL THE FINAL COMPLETION OF THE STRUCTURE. NO PORTION OF THE BUILDING STRUCTURE, WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTORS TEMPORARY BRACES AND SUPPORTS, WHICH SHALL ADDITIONALLY PROVIDE SUPPORT FOR ALL CONSTRUCTION LOADING. MATERIALS AND EQUIPMENT SHALL BE STORED, TRANSPORTED AND INSTALLED IN A MANNER THAT WILL NOT EXCEED THE DESIGN FLOOR LOADING.

CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TEMPORARY BRACING, SUPPORTS, SHORING, FORMING TO SUPPORT IMPOSED CONSTRUCTION LOADS, AND OTHER SIMILAR ITEMS.

STRUCTURAL DOCUMENTS MAY REFER TO OSHA REQUIREMENTS. SUCH REFERENCES ARE INCIDENTAL, AND ARE NOT INTENDED TO IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS.

- COMPLETENESS

INFORMATION CONTAINED IN THE GENERAL NOTES IS ONLY A PARTIAL SUMMARY OF PROJECT REQUIREMENTS. SEE SPECIFICATIONS, PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT MANUALLY SCALE THE DRAWINGS OR USE ANY DIMENSIONS MEASURED FROM ELECTRONIC DRAWING FILES.

UNLESS NOTED OTHERWISE, CENTERLINE OF FLOOR FRAMING ELEMENTS COINCIDES WITH COLUMN CENTERLINES, AND FRAMING ELEMENTS ARE EQUALLY SPACED BETWEEN ADJACENT COLUMN CENTERLINES.

MAJOR OPENING LOCATIONS AND SIZES ARE INDICATED ON THE STRUCTURAL DRAWINGS - SMALLER OPENINGS AND SLEEVES REQUIRED TO ACCOMMODATE VARIOUS BUILDING SERVICES MAY NOT BE NOTED. CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING OPENINGS, INCLUDING CLEARANCE REQUIREMENTS CONTAINED IN THE RESPECTIVE DISCIPLINE DOCUMENTS FOR INSTALLATION AND IN-PLACE OPERATION OF THE RESPECTIVE EQUIPMENT OR ITEMS. UNDER NO CIRCUMSTANCES MAY PENETRATIONS BE MADE IN ANY STRUCTURAL ELEMENT AFTER FINAL PLACEMENT IN THE BUILDING STRUCTURE, WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

CONSULT ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND MANUFACTURERS SPEC SHEETS FOR LOCATIONS AND DIMENSIONS OF PADS, CURBS, EQUIPMENT SUPPORTS, DEPRESSIONS, INSERTS, DRIPS, REGLETS, REVEALS, FINISHES AND OTHER MISCELLANEOUS PROJECT REQUIREMENTS THAT NECESSITATE INCIDENTAL ACCOMMODATION BY THE BUILDING STRUCTURE BUT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

- GENERAL

THE STRUCTURE HAS BEEN DESIGNED AS UNRESTRAINED FOR THE PURPOSE OF FIRE RATING AND FIREPROOFING ASSEMBLY EVALUATIONS.

STRUCTURAL COMPONENTS HAVE NOT BEEN DESIGNED FOR VIBRATORY EQUIPMENT UNLESS NOTED OTHERWISE. PLACE VIBRATORY EQUIPMENT AND EQUIPMENT SENSITIVE TO VIBRATIONS ON VIBRATION ISOLATORS SPECIFICALLY DESIGNED FOR THE EQUIPMENT.

LATERAL BRACING FOR NON-STRUCTURAL ELEMENTS DESIGNED AND DETAILED BY COMPONENT SUPPLIERS SHALL BE DESIGNED TO APPLY LOADS DIRECTLY TO FLOOR OR ROOF DIAPHRAGMS. BRACES SHALL NOT ATTACH DIRECTLY TO BOTTOM FLANGES OF BEAMS OR BOTTOM CHORDS OF JOISTS UNLESS THE COMPONENT SUPPLIER PROVIDES ADDITIONAL BRACING FROM THOSE ELEMENTS TO THE FLOOR OR ROOF DIAPHRAGM AT EACH ATTACHMENT POINT.

HOLES, NOTCHES, BLOCK-OUTS AND OTHER SIMILAR FIELD MODIFICATIONS TO STRUCTURAL MEMBERS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED SHOP DRAWINGS ARE NOT PERMITTED.

EXCEPT AS NOTED BELOW, ALL FUTURE EXPANSION IS ASSUMED TO BE COMPLETELY SELF SUPPORTING FOR BOTH GRAVITY AND LATERAL LOADS.

► SYSTEM NOTES
- FOUNDATIONS AND EARTHWORK

REMOVE EXISTING SURFICIAL TOP SOIL AND VEGETATION FROM WITHIN THE BUILDING AREA AND A MINIMUM OF TEN FEET BEYOND. EXCAVATE MATERIAL TO PROPOSED SLAB-ON-GRADE SUBGRADE. PROOFROLL WITH A HEAVY RUBBER TIRED VEHICLE. SOILS WHICH HEAVE, PUMP, OR DO NOT READILY COMPACT SHALL BE EXCAVATED AND REPLACED WITH ENGINEERED FILL.

SUBGRADE PREPARATION FOR FOOTINGS SHALL CONSIST OF EXCAVATION TO REQUIRED ALLOWABLE BEARING CAPACITY SOILS AT OR NEAR DESIGN FOOTING ELEVATIONS. WHERE UNSUITABLE SOIL IS ENCOUNTERED AT NOMINAL BEARINGDEPTH, SEE OVER EXCAVATION DETAIL.

ALL COMPACTION REQUIREMENTS REFER TO % OF MAXIMUM DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR. GRANULAR STRUCTURAL FILL BENEATH FOOTINGS SHALL BE PLACED IN LAYERS NO MORE THAN 8" THICK, AND EACH LAYER SHALL BE COMPACTED TO 95%. COHESIVE FILL APPROVED BY THE GEOTECHNICAL CONSULTANT SHALL BE PLACED IN LAYERS NO THICKER THAN 8", AND EACH LAYER SHALL BE COMPACTED TO 95%. MOISTURE CONDITION FILL MATERIALS AS REQUIRED TO OBTAIN PROPER COMPACTION. COHESIVE SOILS OR GRANULAR SOILS WITH A SIGNIFICANT PERCENT OF COHESIVE FINES SHALL BE CONDITIONED TO WITHIN 3% OF OPTIMUM MOISTURE CONTENT AT COMPACTION.

FOR GENERAL INFORMATION AND SPECIFIC RECOMMENDATIONS AND REQUIREMENTS PERTAINING TO THE PROJECT SITE, REFER TO THE PROJECT GEOTECHNICAL REPORT PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC., JOB NUMBER 00522408-1, DATED SEPTEMBER 4, 2019 ALL ACTIVITIES CONCERNING PREPARATION AND VERIFICATION OF BEARING SOILS FOR SLAB-ON-GRADE AND FOOTINGS SHALL BE SUPERVISED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.

COLUMNS, PIERS, AND SPREAD FOOTINGS ARE CENTERED ON GRIDLINES UNLESS NOTED OTHERWISE. CONTINUOUS FOOTINGS ARE CENTERED ON WALLS ABOVE UNLESS NOTED OTHERWISE.

BACKFILL UNIFORMLY ON EACH SIDE OF FOUNDATION WALLS, GRADE BEAMS AND OTHER SIMILAR ELEMENTS. DO NOT BACKFILL AGAINST ANY STRUCTURAL ELEMENT UNTIL THAT ELEMENT HAS ATTAINED FULL DESIGN STRENGTH. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL TOP AND BOTTOM OF WALL IS BRACED BY FLOOR FRAMING AND SLAB-ON-GRADE.

TOP OF FOOTING ELEVATION NOTED ON DRAWINGS REPRESENT CONSIDERED ENGINEERING JUDGMENTS ABOUT PROTECTION FROM FROST AND MINIMUM DEPTH TO SOILS CAPABLE OF PROVIDING DESIGN SOIL BEARING CAPACITY. UNCERTAINTIES INHERENT IN DETERMINING THE ELEVATION OF SOILS ADEQUATE TO PROVIDE DESIGN BEARING CAPACITY MAY REQUIRE FOUNDATIONS TO BE LOWERED – IN NO CASE SHALL TOP OF FOOTING BE HIGHER THAN NOTED. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOIL AT THE FOOTING BASE IS ADEQUATE TO PROVIDE THE REQUIRED DESIGN SOIL BEARING CAPACITY.

- CAST-IN-PLACE CONCRETE

DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 –14 EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

REINFORCING CLEAR COVER SHALL BE AS NOTED BELOW UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#3 - #5 BARS	1 1/2"
#6 - #18 BARS	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
WALLS - #3 THRU #11 BARS	3/4"
WALLS - #14 THRU #18 BARS	1 1/2"
STRUCTURAL SLABS - TOP, BOTTOM	1"
JOIST TIES AND MAIN REINFORCING - TOP, BOTTOM , SIDES	1 1/2"
BEAM TIES - TOP, BOTTOM, SIDES	1 1/2"
BEAM MAIN REINFORCING - TOP, BOTTOM, SIDES	2"
COLUMN TIES	1 1/2"
COLUMN MAIN REINFORCING	2"

PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONAL BARS AT ALL OPENING AND RE-ENTRANT CORNERS. BARS SHALL EXTEND A MINIMUM OF 24" PAST OPENING.

ALL BAR SPLICES SHALL BE CONTACT LAP SPLICED USING CLASS B TENSION LAP LENGTHS, WITH ADJACENT LAPS STAGGERED A MINIMUM OF 3'-0" UNLESS DETAILED OTHERWISE. SEE ADJACENT TABLES FOR REQUIRED LAP AND DEVELOPMENT LENGTHS.

FIELD WELDING OF ASTM A615 REINFORCING STEEL IS NOT PERMITTED. FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.

CORING OF COLUMNS, WALLS, BEAMS, JOISTS AND SLABS IS NOT PERMITTED. PROVIDE STEEL SLEEVES FOR ALL PENETRATIONS AT ALL LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

- CONCRETE MASONRY

DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 530 -13 AND ACI 530.1 -13 EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

ALL CMU SHALL BE PLACED IN RUNNING BOND. UNLESS NOTED OTHERWISE PROVIDE CONTINUOUS LADDER TYPE REINFORCEMENT WITH 9 GAUGE SIDE AND CROSS RODS AT 16" OC VERTICALLY IN ALL WALLS AND PIERS, AND AT 8" OC VERTICALLY AT PARAPETS. WHERE VERTICAL BARS ARE REQUIRED, CONSTRUCT CMU WALL TO PROVIDE A CONTINUOUS UNOBSTRUCTED CELL FROM BOTTOM TO TOP OF BAR. CELL CONTAINING A SINGLE BAR SHALL NOT BE LESS THAN 3" X 4" IN PLAN AREA.

PORTIONS OF CMU CONSTRUCTION REQUIRING STRUCTURAL FILL SHALL USE GROUT ONLY. USE OF CONCRETE FILL IN CMU CONSTRUCTION IS NOT PERMITTED. WHERE CLEARANCES AND CONGESTION PERMIT, USE COARSE GROUT WITH PEA GRAVEL AGGREGATE; OTHERWISE USE FINE GROUT.

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL VERTICAL CONTROL JOINTS IN EXTERIOR WYTHES OF PERIMETER WALLS AND FOR EXTERIOR WALLS.

PROVIDE STEEL PIPE SLEEVES AT ALL LOCATIONS WHERE PIPING PASSES THROUGH CMU WALL.

WHERE BOND BEAMS INTERSECT AT WALL CORNERS AT DIFFERENT ELEVATIONS, RUN EACH BOND BEAM AROUND THE CORNER FOR A MINIMUM OF TWO FULL BLOCK LENGTHS BEFORE TERMINATING. WHERE BOND BEAMS ADJOIN ON THE SAME WALL AT DIFFERENT ELEVATIONS, RUN BOND BEAMS PAST ONE ANOTHER A MINIMUM OF FOUR FULL BLOCK LENGTHS BEFORE TERMINATING

- STRUCTURAL STEEL

DESIGN, DETAILING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 360-10, THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AISC 303-10, AND THE STEEL CONSTRUCTION MANUAL FOURTEENTH EDITION.

TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. THEY ARE NOT INTENDED TO CONVEY COMPLETE INFORMATION CONCERNING SIZE AND QUANTITY OF CONNECTORS, PLATES, ANGLES, WELDS AND SIMILAR ITEMS THAT ARE DEVELOPED THROUGH THE DESIGN OF AN INDIVIDUAL CONNECTION FOR A SPECIFIC SET OF LOADS AND COMBINATIONS. DETAILS THAT CONVEY SPECIFIC COMPONENT INFORMATION ESTABLISH MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO CONVEY A COMPLETE DESIGN UNLESS NOTED.

UNLESS OTHERWISE NOTED, ALL STEEL TO STEEL FRAMING HAS BEEN SELECTED ASSUMING ATTACHMENTS FOR SHEAR ONLY, USING DOUBLE ANGLE OR DOUBLE BENT PLATE CONNECTIONS SHOP WELDED TO FRAMING MEMBER AND FIELD BOLTED TO SUPPORTING MEMBER WITH HIGH STRENGTH BOLTS IN BEARING. CONNECTIONS SHALL BE SYMMETRICAL ABOUT THE BEAM WEB. FABRICATORS PROPOSING TO USE ALTERNATIVE METHODS OF ATTACHMENT NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS SHALL SUBMIT ALTERNATIVE FOR CONSIDERATION DURING BIDDING, AND SHALL BEAR ALL COSTS ASSOCIATED WITH REVIEW, ENGINEERING REDESIGN, AND APPROVAL OF ALTERNATIVE CONNECTIONS

SINGLE PLATE SHEAR TAB CONNECTIONS MAY BE USED IN LIEU OF DOUBLE ANGLE OR DOUBLE BENT PLATE CONNECTIONS WHERE SPECIFICALLY NOTED ON DRAWINGS OR WHERE CONNECTION OF FRAMING MEMBER TO ONE SIDE OF A SUPPORT MEMBER IS MATCHED BY A SIMILAR CONNECTION ON THE OPPOSITE SIDE OF THE SAME SUPPORT MEMBER, AND WHERE BEAM SPANS DO NOT DIFFER BY MORE THAN 50% OF THE LARGER SPAN. SINGLE PLATE SHEAR TABS MAY NOT BE USED FOR CONNECTION OF FRAMING MEMBERS TO COLUMNS OR TO SPANDREL (EDGE) SUPPORT MEMBERS UNLESS SPECIFICALLY DETAILED ON DRAWINGS.

CONNECTIONS FOR ALL STRUCTURAL STEEL BEAMS AND GIRDERS NOT SHOWN OR COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WISCONSIN AND RETAINED BY THE FABRICATOR, USING THE REACTIONS SHOWN. IF NO REACTION IS SHOWN, BEAM CONNECTIONS SHALL BE DESIGNED FOR 50 % OF THE TOTAL UNIFORM LOAD CAPACITY FOR THE GIVEN MEMBER SIZE, SPAN AND GRADE OF STEEL. IN NO CASE SHALL A CONNECTION BE DESIGNED FOR A REACTION LESS THAN 12 KIPS, OR SHALL A CONNECTION USE LESS THAN 2 BOLTS OR 3/16 FILLET WELDS.

DESIGN OF STAIRS, HANDRAILS AND GUARDRAILS SHALL BE BY THE STEEL SUPPLIER.

REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STRUCTURAL STEEL NOT NOTED ON STRUCTURAL DRAWINGS.

- BAR JOISTS

ALL STANDARD K, LH AND DLH SERIES JOISTS SHALL BE DESIGNED FOR A SHEAR CAPACITY EQUAL TO THE REACTION, AND VARYING LINEARLY TO 25% OF THE REACTION AT THE MIDSPAN OF THE JOIST. IN ORDER TO ACCOUNT FOR POTENTIAL STRESS REVERSALS THE SHEAR CAPACITY OF THE JOIST SHALL BE MAINTAINED AT THE 25% VALUE FOR A DISTANCE BEYOND THE MIDSPAN EQUAL TO MINIMUM OF ONE PANEL WIDTH, ROUNDED UP TO THE NEXT PANEL POINT.

WHERE JOISTS ARE DESIGNATED BY DEPTH, SERIES AND TOTAL LOAD / LIVE LOAD, FINAL DESIGN SHALL BE PER NOTED LOAD PLUS SELF WEIGHT OF JOIST AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.

WHERE JOIST DESIGNATION INCLUDES "SP", FINAL DESIGN SHALL BE PER LOADING DIAGRAM PROVIDED PLUS SELF WEIGHT OF JOIST AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.

WHERE STANDARD JOIST DESIGNATION FOR DEPTH, SERIES AND SIZE OCCURS PRIOR TO THE DESIGNATION "SP", FINAL DESIGN SHALL BE PER LOADING DIAGRAM PROVIDED PLUS SELF WEIGHT OF JOIST, SHALL AT A MINIMUM USE THE STANDARD CHORDS AND WEB MEMBERS FOR THE DEPTH AND SERIES NOTED, AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.

UPLIFT DESIGN OF JOISTS AND BRIDGING SHALL NOT UTILIZE A 1/3 STRESS INCREASE.

WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATION, CONTRACTOR MAY REMOVE BRIDGING AFTER METAL DECK IS COMPLETE IN PLACE, UPON RECIEPT OF WRITTEN APPROVAL FROM THE ENGINEER. BRIDGING REMOVED SHALL BE REPLACED AS DIRECTED BY THE ENGINEER, INCLUDING ADDITIONAL SUPPLEMENTAL BRACING AS MAY BE NECESSARY IN THE SOLE JUDGEMENT OF THE ENGINEER.

NO FIELD DRILLED HOLES OR CUTS ARE PERMITTED IN ANY JOIST CHORD OR WEB MEMBER.

MAXIMUM HANGER LOAD TO BE LOCATED ALONG BAR JOIST TOP CHORD BETWEEN PANEL POINTS IS 100 POUNDS.

ALL CONCENTRATED LOADS EXCEEDING 100 POUNDS SHALL BE APPLIED AT A JOIST PANEL POINT UNLESS LOADS ARE INDICATED ON LOAD DIAGRAMS AND CHORDS HAVE BEEN SPECIFICALLY DESIGNED FOR CONCENTRATED LOADS, OR UNLESS SUPPLEMENTAL CHORD BRACING IS PROVIDED. SUPPLEMENTAL CHORD BRACING SHALL BE PROVIDED AS DETAILED ON THE DRAWINGS BY THE CONTRACTOR RESPONSIBLE FOR THE CONCENTRATED LOADS NOT APPLIED AT PANEL POINTS.

JOISTS AND SEAT CONNECTIONS SHALL BE DESIGNED TO RESIST AXIAL LOADS INDICATED, OR RESIST A HORIZONTAL FORCE ACTING PARALLEL TO THE JOIST NOT LESS THAN 5% OF THE (DEAD + LIVE) LOAD REACTION, WHICHEVER IS GREATER.

WHERE FIRE PROTECTION LINE RUNS PARALLEL TO A BAR JOIST, LINES UP TO AND INCLUDING 4" MAY BE SUPPORTED BY A SINGLE JOIST. LINES LARGER THAN 4" SHALL BE HUNG BETWEEN BAR JOISTS USING TRAPEZE HANGER.

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, MAXIMUM SPACING OF HANGERS ON ANY SIZE FIRE PROTECTION LINE MAY NOT BE MORE THAN 15'.

- METAL DECKING

PROVIDE ANGLE SUPPORTS FOR METAL DECK AT ALL COLUMN FACES WHERE SUPPORT IS REQUIRED, AND IS NOT PROVIDED BY MEMBERS FRAMING TO COLUMN. ANGLE FRAMING SHALL BE A MINIMUM OF L2x2x3/16.

NO LOADS FROM ARCHITECTURAL, MECHANICAL, ELECTRICAL OR PLUMBING ITEMS, SINGLY OR IN AGGREGATE, IN EXCESS OF 25 POUNDS SHALL BE HUNG FROM METAL ROOF DECK IN ANY 4 SQUARE FOOT AREA. LOADS EXCEEDING THIS LIMIT REQUIRE SUPPLEMENTAL FRAMING ATTACHED DIRECTLY TO STRUCTURAL FRAMING.

SPLICES AT CONTINUOUS DIAPHRAGM CHORD ANGLES SHALL BE FULL PENETRATION WELDS UNLESS NOTED.

- POST-INSTALLED ANCHORAGE

ALL POST-INSTALLED ANCHORS MUST BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, DRILL TYPE, HOLE CLEANING, INSTALLATION TORQUE, AND TEMPERATURE CONSTRAINTS.

ALL PERSONNEL INSTALLING POST-INSTALLED ANCHORS SHALL BE TRAINED BY THE MANUFACTURER ON PROPER INSTALLATION TECHNIQUE. CONTRACTOR SHALL COORDINATE ANY ON-SITE TRAINING WITH THE ANCHOR MANUFACTURER. TRAINING DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST.

WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS, THAT SPECIFIC PRODUCT SHALL BE USED UNLESS NOTED OTHERWISE. BELOW CONTAINS A LIST OF PRE-APPROVED ANCHORS FOR USE AS AN EQUAL (WHERE "OR EQUAL" IS INDICATED) OR WHERE POST-INSTALLED ANCHORAGE IS REFERRED TO IN THE DOCUMENTS GENERICALLY (E.G. "ADHESIVE ANCHOR").

PROVIDE SPECIAL INSPECTION FOR ALL POST-INSTALLED ANCHORS PER THE EVALUATION REPORT OR AS INDICATED OTHERWISE. THE ANCHOR MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR TO REVIEW AND APPROVE THE CONTRACTOR'S INSTALLATION PROCEDURES.

○ CONCRETE

PRIOR TO INSTALLING POST-INSTALLED ANCHORS, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF OF 2,500 PSI AND BE 21 DAYS OLD. ADHERE TO MANUFACTURER'S REQUIREMENTS FOR REQUIRED INSTALLATION TEMPERATURES AND HOLE CONDITION (WET, DRY, SATURATED).

EXPANSION ANCHORS FOR USE IN CONCRETE INCLUDE:
HILTI: KWIK-BOLT TZ
SIMPSON STRONG-TIE: STRONG-BOLT 2
DEWALT/POWERS: POWER-STUD+SD2

SCREW ANCHORS FOR USE IN CONCRETE INCLUDE:
HILTI: HUS-EZ
SIMPSON STRONG-TIE: TITEN HD
DEWALT/POWERS: SCREW-BOLT+

ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE:
HILTI: HIT-RE 500 V3 OR HIT-HY 200
SIMPSON STRONG-TIE: SET-XP OR AT-XP
DEWALT/POWERS: PURE110+ OR AC200+ GOLD

DO NOT USE ADHESIVE ANCHORS IN OVERHEAD APPLICATIONS UNLESS SPECIFICALLY INDICATED ON THE CONTRACT DOCUMENTS. FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED, INSTALLER SHALL HOLD AN ACTIVE ACI/CRSI ISSUED ADHESIVE ANCHOR INSTALLER CERTIFICATION IN ADDITION TO TRAINING BY THE ANCHOR MANUFACTURER. CONTINUOUS SPECIAL INSPECTION FOR ADHESIVE ANCHORS INSTALLED AT THESE ANGLES IS REQUIRED. THE SPECIAL INSPECTOR SHALL PROVIDE A REPORT TO THE STRUCTURAL ENGINEER OF RECORD INDICATING THAT THE MATERIALS USED AND INSTALLATION PROCEDURES CONFORM WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

ALL OTHER POST-INSTALLED ANCHORS SHALL HAVE PERIODIC SPECIAL INSPECTION AT A MINIMUM UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN THE SPECIFIC ANCHOR'S EVALUATION REPORT.

○ MASONRY ANCHORS

INSTALLATION OF POST-INSTALLED ANCHORAGE INTO GROUTED CELLS SHALL BE MADE ONCE GROUT HAS REACHED A COMPRESSIVE STRENGTH OF 2,000 PSI.

PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORAGE INTO MASONRY. IF MORE STRINGENT REQUIREMENTS ARE INDICATED IN THE SPECIFIC ANCHOR'S EVALUATION REPORT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

EXPANSION ANCHORS TO SOLID OR GROUTED CMU INCLUDE:
HILTI: KWIK-BOLT 3
SIMPSON STRONG-TIE: STRONG-BOLT 2
DEWALT/POWERS: POWER-STUD+SD1

SCREW ANCHORS TO SOLID OR GROUTED CMU INCLUDE:
HILTI: KWIK-HUS-EZ
SIMPSON STRONG-TIE: TITEN HD
DEWALT/POWERS: SCREW-BOLT+

ADHESIVE ANCHORS TO SOLID, GROUTED, OR HOLLOW CMU AND UNREINFORCED BRICK INCLUDE:
HILTI: HIT-HY 70
SIMPSON STRONG-TIE: SET-XP (CMU ONLY)
SIMPSON STRONG-TIE: AT (BRICK ONLY)
DEWALT/POWERS: AC100+ GOLD

- ELEVATORS

ELEVATOR HOISTWAY DIMENSIONS, PIT DEPTHS, SHEAVE BEAM LAYOUT, MACHINE ROOM SLABS, HOIST BEAMS, DIVIDER BEAMS AND ELEVATOR REACTIONS ARE BASED ON PRELIMINARY ELEVATOR INFORMATION ONLY. FINAL ELEVATOR SHOP DRAWINGS WERE NOT AVAILABLE DURING PREPARATION OF CONSTRUCTION DOCUMENTS.

CONTRACTOR SHALL SUBMIT FINAL ELEVATOR SHOP DRAWINGS TO THE ENGINEER THROUGH THE ARCHITECT FOR REVIEW. ELEVATOR SHOP DRAWINGS SHALL INDICATE THE LOADS FOR THE MACHINES, COUNTERWEIGHTS, CAR BUFFERS, COUNTERWEIGHT BUFFERS, AND GUIDE RAILS. CONNECTION OF THESE ELEMENTS TO THE STRUCTURE SHALL BE CLEARLY DEPICTED FOR VERIFICATION OF THE LOAD CARRYING CAPACITY OF THE SUPPORTING STRUCTURE.

CONTRACTOR SHALL NOT BEGIN FABRICATION OR CONSTRUCTION OF ANY STRUCTURAL ELEMENTS RELATED TO THE ELEVATORS UNTIL FINAL ELEVATOR SHOP DRAWINGS HAVE BEEN SUBMITTED, RECEIVED BY THE ARCHITECT AND ENGINEER FOR COORDINATION PURPOSES, AND APPROVED. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, ELEVATOR PIT WALLS AND FOUNDATIONS, SEPARATOR BEAMS, GUIDE RAILS SUPPORT TUBES, JOIST BEAMS, MACHINE ROOM FRAMING AND SHEAVE BEAMS.

CONTRACTOR SHALL COORDINATE THE NUMBER AND LOCATION OF ELEVATOR GUIDE RAIL SUPPORT TUBES FOR ELEVATOR GUIDE RAILS AND COUNTERWEIGHT RAILS WITH THE FINAL ELEVATOR SHOP DRAWINGS.

- COLD-FORMED METAL FRAMING

COLD-FORMED METAL FRAMING IS PERFORMANCE BASED, AND SHALL BE COMPLETELY DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN AND RETAINED BY THE COLD-FORMED SUPPLIER. DESIGN SHALL BE SUBJECT TO THE LIMITATIONS NOTED. COLD-FORMED MEMBERS NOTED SHOULD BE CONSIDERED MINIMUM SIZES. CONNECTION DETAILS INDICATE INTENT FOR CONNECTION BEHAVIOR ONLY.

FOR RIGID VENEER, LIMIT THE MAXIMUM SIMPLE SPAN LATERAL DEFLECTION OF COLD-FORMED METAL PROVIDING LATERAL SUPPORT TO SPAN/600 - LIMIT THE MAXIMUM CANTILEVER LATERAL DEFLECTION TO CANTILEVER SPAN/360 AT THE WINDOW HEAD AND SILL. IN ALL CASES, THE COLD-FORMED METAL FRAMING ALONE SHALL TAKE ALL THE LATERAL LOAD – NO COMPOSITE ACTION WITH SHEATHING, BRICK, CMU, STONE, OR ANY RIGID VENEER MATERIAL IS PERMITTED.

FOR FLEXIBLE VENEER, LIMIT THE MAXIMUM SIMPLE SPAN LATERAL DEFLECTION OF COLD-FORMED METAL PROVIDING LATERAL SUPPORT TO SPAN/360 - LIMIT THE MAXIMUM CANTILEVER LATERAL DEFLECTION TO CANTILEVER SPAN/240 AT THE WINDOW HEAD AND SILL. IN ALL CASES, THE COLD-FORMED METAL FRAMING ALONE SHALL TAKE ALL THE LATERAL LOAD – NO COMPOSITE ACTION WITH SHEATHING MATERIAL IS PERMITTED.

LIMIT VERTICAL DEFLECTION OF STUD LINTEL ASSEMBLIES TO 1/8 INCH AT THE HEAD OF WINDOWS OR OPENINGS.

HEADERS AND JAMBS AT OPENING MAY CONSIST OF BUILT-UP COLD-FORMED METAL FRAMING OR HOT-ROLLED STEEL SECTIONS AS DETERMINED BY THE COLD-FORMED FRAMING DESIGNER. SOME CONDITIONS MAY NECESSITATE HOT-ROLLED SECTIONS, WHICH ARE TO BE SUPPLIED AND INSTALLED BY THE COLD-FORMED METAL CONTRACTOR.

STANDARD ABBREVIATIONS:

AB	ANCHOR BOLT (ROD)	LLBB	LONG LEG BACK TO BACK
AHU	AIR HANDLING UNIT	LLH	LONG LEG HORIZONTAL
ALT	ALTERNATE	LLV	LONG LEG VERTICAL
APPROX	APPROXIMATELY	LP	LOW POINT
ARCH	ARCHITECTURAL	LSB	CLASS 'B' BAR LAP
BF	BOTTOM OF FOOTING	LSL	LAMINATED STRAND LUMBER
BS	BOTTOM OF STEEL	LTWT	LIGHTWEIGHT
BC	BOTTOM CHORD	LVL	LAMINATED VENEER LUMBER
BLDG	BUILDING	LW	LONG WAY
BRG	BEARING	MAX	MAXIMUM
BTWN	BETWEEN	MECH	MECHANICAL
CB	CATCH BASIN	MFR	MANUFACTURER
CIP	CAST-IN-PLACE	MIN	MINIMUM
CJ	CONTROL JOINT	MISC	MISCELLANEOUS
CL	CENTER LINE	MO	MASONRY OPENING
CLR	CLEAR (DISTANCE)	MS	MIDDLE STRIP
CMU	CONCRETE MASONRY UNIT	NA	NOT APPLICABLE
COL	COLUMN	NIC	NOT IN CONTRACT
CONC	CONCRETE	NOM	NOMINAL
CONT	CONTINUOUS	NTS	NOT TO SCALE
CS	COLUMN STRIP	OC	ON CENTER
DBA	DEFORMED BAR ANCHOR OR DECK BEARING ANGLE	OD	OUTSIDE DIAMETER
		OF	OUTSIDE FACE
DBE	DECK BEARING ELEVATION	OPNG	OPENING
DEMO	DEMOLITION / DEMOLISH	OPP	OPPOSITE
DIA	DIAMETER	OSL	OUTSTANDING LEG
DL	DEAD LOAD	PC	PRECAST / PRESTRESSED
DWG	DRAWING	PCI	POUNDS PER CUBIC INCH
EOD	EDGE OF DECK	PDF	POUNDS PER CUBIC FOOT
EOS	EDGE OF SLAB	PL	PLATE
EF	EACH FACE	PLBG	PLUMBING
EJ	EXPANSION JOINT	PLF	POUNDS PER LINEAR FOOT
EL	ELEVATION	PROJ	PROJECTION
ELEC	ELECTRICAL	PSF	POUNDS PER CUBIC FOOT
ENG	ENGINEER	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	PT	PRE (POST) -TENSIONED
ES	EDGE STRIP	RD	ROOF DRAIN
EW	EACH WAY	REF	REFERENCE
EWEF	EACH WAY EACH FACE	REINF	REINFORCE(D)
EXP	EXPANSION	REM	REMAINDER
EXT	EXTERIOR	RTU	ROOF TOP UNIT
EXTG or (e)	EXISTING	SC	SLIP CRITICAL
FD	FLOOR DRAIN	SCHED	SCHEDULE
FLG	FLANGE	SHT	SHEET
FLR	FLOOR	SIM	SIMILAR
FND	FOUNDATION	SL	SNOW LOAD
FTG	FOOTING	SLBB	SHORT LEGS BACK TO BACK
FRMG	FRAMING	SOG	SLAB-ON-GRADE
FUT	FUTURE	SPA	SPAC(ES)(ED)(ING)
FV	FIELD VERIFY	SPEC	SPECIFICATION(S)
GA	GAUGE	SQ	SQUARE
GALV	GALVANIZED	SS	STAINLESS STEEL
GC	GENERAL CONTRACTOR	STD	STANDARD
GLULAM	GLUE-LAMINATED BEAM(S)	SW	SHORT WAY
GT	GIRDER TRUSS	TF	TOP OF FOOTING
HK	HOOK	TL	TOP OF LEDGE
HORIZ	HORIZONTAL	TP	TOP OF PIER
HP	HIGH POINT	TS	TOP OF STEEL
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	TW	TOP OF WALL
		TC	TENSION CONTROL
HWS	HEADED WELDED STUD(S)	TC	TOP CHORD
ID	INSIDE DIAMETER	THK	THICK (NESS) (ENED)
IF	INSIDE FACE	TL	TOTAL LOAD
INT	INTERIOR	TYP	TYPICAL
JBE	JOIST BEARING ELEVATION	UNO	UNLESS NOTED OTHERWISE
K	KIP	VERT	VERTICAL
KO	KNOCKOUT PANEL	VIF	VERIFY IN FIELD
KSI	KIPS PER SQUARE INCH	VWA	VERIFY WITH ARCHITECT
L	ANGLE	WL	WIND LOAD
LB	POUNDS	WP	WORKING POINT
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC

COMPONENTS AND CLADDING WIND PRESSURES (PSF)

ZONE	WIND AREA (SF)	ROOF SLOPE 0° TO 7° (+)	0° TO 7° (-)	7° TO 27° (+)	7° TO 27° (-)	27° TO 45° (+)	27° TO 45° (-)	ZONE	WIND AREA (SF)	(+)	(-)
1	10	10.5	25.9	14.9	23.7	23.7	25.9	4	10	25.9	28.1
1	20	9.9	25.2	13.6	23.0	23.0	24.6	4	20	24.7	26.9
1	50	9.0	24.4	11.9	22.2	22.2	22.8	4	50	23.2	25.4
1	100	8.3	23.7	10.5	21.5	21.5	21.5	4	100	22.0	24.2
2	10	10.5	43.5	14.9	41.3	23.7	30.3	5	10	25.9	34.7
2	20	9.9	38.8	13.6	38.0	23.0	29.0	5	20	24.7	32.4
2	50	9.0	32.7	11.9	33.6	22.2	27.2	5	50	23.2	29.3
2	100	8.3	28.1	10.5	30.3	21.5	25.9	5	100	22.0	26.9
3	10	10.5	65.4	14.9	61.0	23.7	30.3				
3	20	9.9	54.2	13.6	57.1	23.0	29.0				
3	50	9.0	39.3	11.9	51.8	22.2	27.2				
3	100	8.3	28.1	10.5	47.9	21.5	25.9				

(-) WIND PRESSURE ON ROOF OVERHANGS

LOCATION	WIND AREA (SF)	ROOF SLOPE 0° TO 7° ZONE 2	0° TO 7° ZONE 3	7° TO 27° ZONE 2	7° TO 27° ZONE 3	27° TO 45° ZONE 2	27° TO 45° ZONE 3
OVERHANG	10	37.2	61.4	48.2	80.9	43.7	43.7
OVERHANG	20	36.6	48.1	48.2	73.0	42.4	42.4
OVERHANG	50	35.7	30.7	48.2	62.6	40.7	40.7
OVERHANG	100	35.1	17.4	48.2	54.7	39.4	39.4

ADJUSTMENT FACTOR

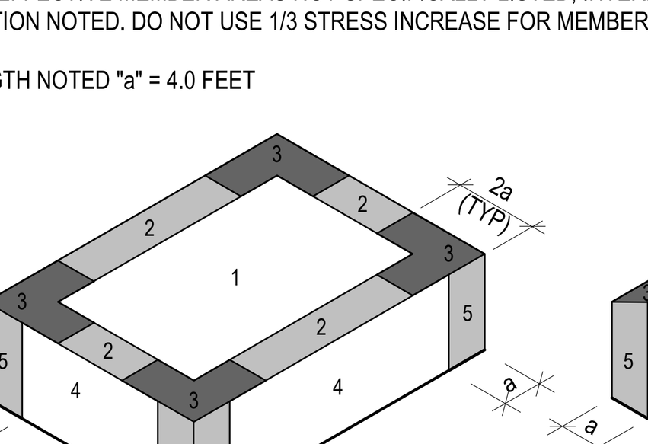
MEAN ROOF HEIGHT (FT)	EXPOSURE B	EXPOSURE C
15	1.00	1.21
20	1.00	1.29
25	1.00	1.35
30	1.00	1.40
35	1.05	1.45
40	1.09	1.49
45	1.12	1.53
50	1.16	1.56
55	1.19	1.59
60	1.22	1.62

NOTES:
1) BASED ON SIMPLIFIED PROVISIONS FOR ENCLOSED REGULAR-SHAPED BUILDINGS WITH MEAN ROOF HEIGHT LESS THAN OR EQUAL TO 60'-0" (ASCE 7-10) ASSUMING 120 MPH WIND, EXPOSURE B, I=1.0, Kzt = 1.0 AT MEAN ROOF HEIGHT = 30'-0". MULTIPLY TABLE VALUES BY THE TABLES VALUES ABOVE IMMEDIATE RIGHT AT OTHER MEAN ROOF HEIGHTS AND BY IMPORTANCE FACTOR IF OTHER THAN I = 1.0.

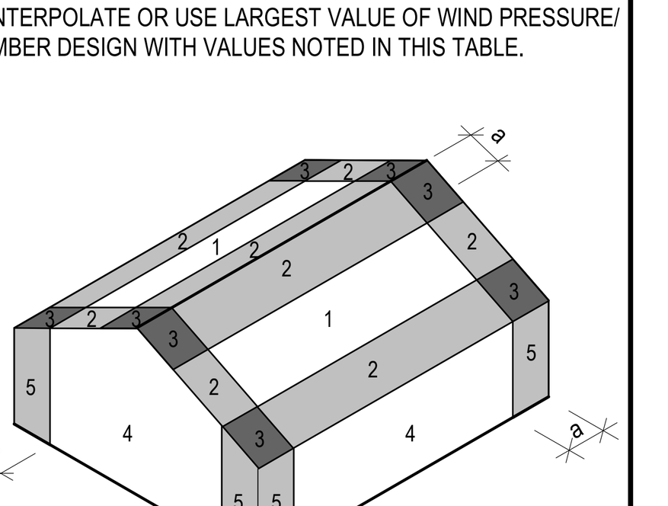
2) (+) = POSITIVE (INWARD) PRESSURE.
(-) = NEGATIVE (OUTWARD) PRESSURE.
SF = SQUARE FEET

3) FOR EFFECTIVE MEMBER AREAS NOT SPECIFICALLY LISTED, INTERPOLATE OR USE LARGEST VALUE OF WIND PRESSURE/ SUCTION NOTED. DO NOT USE 1/3 STRESS INCREASE FOR MEMBER DESIGN WITH VALUES NOTED IN THIS TABLE.

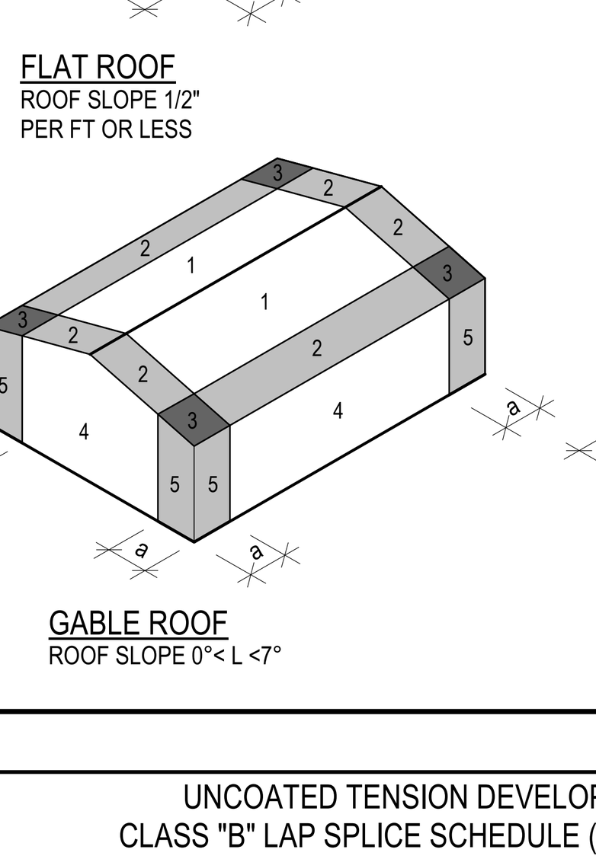
4) LENGTH NOTED "a" = 4.0 FEET



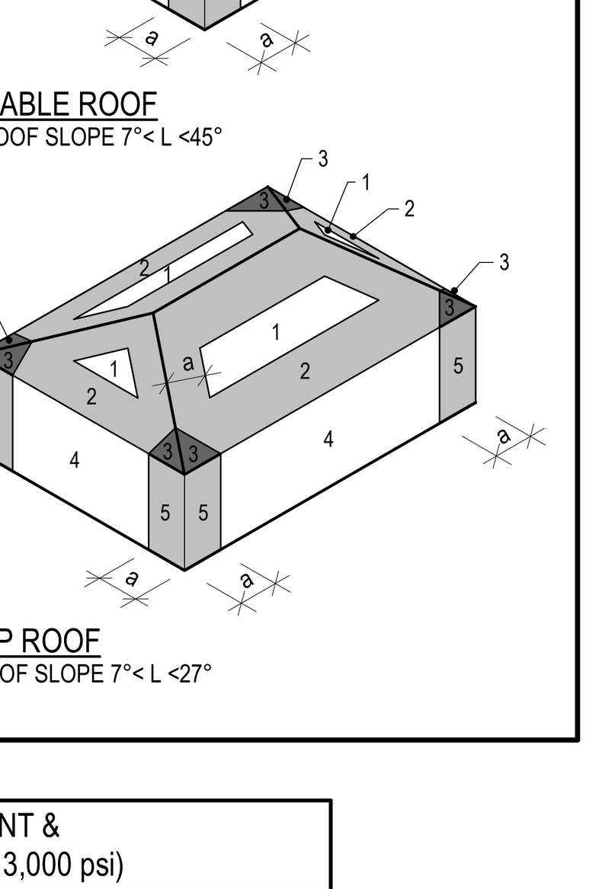
FLAT ROOF
ROOF SLOPE 1/2" PER FT OR LESS



GABLE ROOF
ROOF SLOPE 7°< L <45°



GABLE ROOF
ROOF SLOPE 0°< L <7°



HIP ROOF
ROOF SLOPE 7°< L <27°

UNCOATED TENSION DEVELOPMENT & CLASS "B" LAP SPLICE SCHEDULE (f'c = 3,000 psi)

BAR SIZE	TENSION DEVELOPMENT LENGTH CLR COV = .75" BOT BARS	CLR COV = .75" TOP BARS	CLR COV = 1" BOT BARS	CLR COV = 1" TOP BARS	CLR COV = 1.5" BOT BARS	CLR COV = 1.5" TOP BARS	CLASS "B" TENSION LAP LENGTH CLR COV = .75" BOT BARS	CLR COV = .75" TOP BARS	CLR COV = 1" BOT BARS	CLR COV = 1" TOP BARS	CLR COV = 1.5" BOT BARS	CLR COV = 1.5" TOP BARS
#3	12	13	12	13	12	13	13	17	13	17	13	17
#4	17	22	13	17	13	17	22	28	17	23	17	23
#5	24	32	20	26	17	22	32	41	26	33	22	28
#6	33	43	27	35	20	26	43	56	35	46	26	34
#7	53	69	44	57	33	43	69	90	57	74	43	55
#8	66	86	55	72	41	54	86	111	72	93	54	70
#9	80	104	67	87	51	66	104	135	87	113	66	86
#10	96	125	81	106	62	81	125	162	106	137	81	105
#11	113	146	96	125	74	97	146	190	125	162	97	125

SCHEDULE NOTES:
1) BASED ON:
1a. GRADE 60 REINFORCEMENT BARS.
1b. NORMAL WEIGHT CONCRETE.
1c. FOR BARS IN WALLS AND SLABS.
2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BARS.
3) FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABLED VALUES BY 1.33.

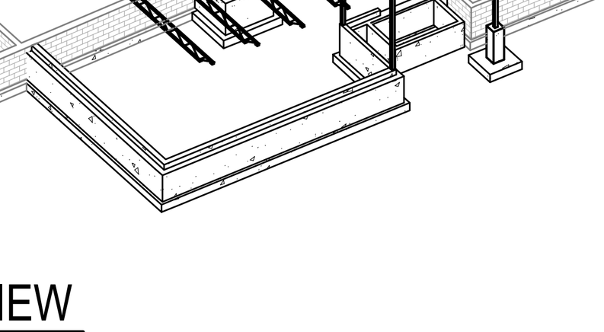
THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP LENGTHS.

UNCOATED TENSION DEVELOPMENT & CLASS "B" LAP SPLICE SCHEDULE (f'c = 4,000 psi)

BAR SIZE	TENSION DEVELOPMENT LENGTH CLR COV = .75" BOT BARS	CLR COV = .75" TOP BARS	CLR COV = 1" BOT BARS	CLR COV = 1" TOP BARS	CLR COV = 1.5" BOT BARS	CLR COV = 1.5" TOP BARS	CLASS "B" TENSION LAP LENGTH CLR COV = .75" BOT BARS	CLR COV = .75" TOP BARS	CLR COV = 1" BOT BARS	CLR COV = 1" TOP BARS	CLR COV = 1.5" BOT BARS	CLR COV = 1.5" TOP BARS
#3	12	12	12	12	12	12	12	15	12	15	12	15
#4	15	19	12	15	12	15	19	24	15	20	15	20
#5	21	28	17	22	15	19	28	36	22	29	19	24
#6	29	37	24	31	17	22	37	48	31	40	22	29
#7	46	60	38	50	28	37	60	78	50	64	37	48
#8	57	74	48	62	36	47	74	96	62	80	47	60
#9	69	90	58	76	44	57	90	117	76	98	57	74
#10	83	108	70	92	54	70	108	140	92	119	70	91
#11	98	127	83	108	64	84	127	165	108	141	84	109

SCHEDULE NOTES:
1) BASED ON:
1a. GRADE 60 REINFORCEMENT BARS.
1b. NORMAL WEIGHT CONCRETE.
1c. FOR BARS IN WALLS AND SLABS.
2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BARS.
3) FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABLED VALUES BY 1.33.

THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP LENGTHS.



3D VIEW
NOTE: 3D VIEW IS FOR REFERENCE ONLY.

STRUCTURAL SHEET INDEX

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REVISIONS:

STRUCTURAL NOTES

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
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ISOLATED FOOTING SCHEDULE

MARK	ISOLATED FOOTING DIMENSIONS LENGTH	WIDTH	THICKNESS	FOOTING REINFORCEMENT	REMARKS
F40	4'-0"	4'-0"	12"	(4) #5; B, EW	

CONTINUOUS FOOTING SCHEDULE

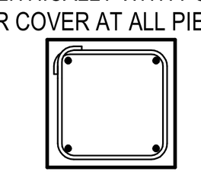
MARK	CONTINUOUS FOOTING DIMENSIONS WIDTH	THICKNESS	FOOTING REINFORCEMENT	REMARKS
(e)W14	1'-4"	12"		
(e)W20	2'-0"	12"		
W20	2'-0"	12"	(2) #5; B, CONT	

NOTES:
1. B = BOTTOM, T = TOP, LW = LONG WAY, SW = SHORT WAY, EW = EACH WAY.
2. ALL REINFORCEMENT BARS TO BE BOTTOM BARS UNLESS NOTED OTHERWISE.

CONCRETE PIER SCHEDULE

MARK	PIER DIMENSIONS X	Y	PIER TYPE	REINFORCEMENT VERTICAL	TIES	REMARKS
P1	16"	16"	I	(4) #6	#3 AT 16" OC.	

NOTES:
1. PIERS TO BE CENTERED ON BUILDING GRID LINE(S), UNLESS NOTED OTHERWISE.
2. REFERENCE DETAIL 8/S800 FOR TYPICAL PIER INFORMATION.
3. CAST PIER MONOLITHICALLY WITH FOUNDATION WALL.
4. PROVIDE 2" CLEAR COVER AT ALL PIER TYPES.
5. PIER TYPES:


I

LOOSE STEEL LINTEL SCHEDULE (SEE NOTE 1)

WALL THICKNESS	CLEAR MASONRY OPENING WIDTH	SECTION
ALL	AT FIRE EXTINGUISHER CABS AND DRINKING FOUNTAINS	1/4" PL
4"	TO 5'-0"	ST 3 X 6.25 (3/16 1 1/2 - 8)
4"	TO 7'-0"	PL 3/8 X 4 1/2 ON PL 3/8 X 3 1/2
4"	TO 9'-0"	PL 3/8 X 7 1/2 ON PL 3/8 X 3 1/2
6"	TO 5'-0"	(2) L 3 1/2 X 2 1/2 X 1/4 LLV
6"	TO 7'-0"	WT 4 X 10.5
6"	TO 9'-0"	WT 7 X 11
8"	TO 5'-0"	(2) L 3 1/2 X 3 1/2 X 1/4
8"	TO 7'-0"	(2) L 4 X 3 1/2 X 5/16 LLV
8"	TO 9'-0"	WT 7 X 15
10"	TO 7'-0"	W8 X 10 WITH PL 5/16 X 9 (3/16 1 1/2 - 8)
10"	TO 10'-0"	W8 X 15 WITH PL 5/16 X 9
12"	TO 5'-0"	(3) L 3 1/2 X 3 1/2 X 1/4
12"	TO 7'-0"	W8 X 10 WITH PL 5/16 X 11 (3/16 1 1/2 - 8)
12"	TO 10'-0"	W8 X 15 WITH PL 5/16 X 11

LINTEL NOTES:
1) LINTELS CALLED OUT IN THIS SCHEDULE ARE FOR NON-LOAD BEARING MASONRY WALLS.
2) PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.
3) CENTER LINTELS IN WALL UNLESS NOTED OTHERWISE.
4) BOTTOM PLATES UNDER WIDE FLANGE SHAPES SHALL BE EXTENDED FULL LENGTH OF LINTEL.
5) WELD LINTEL COMPONENTS INTO SINGLE UNIT.
6) GROUT BLOCK CORES SOLID MINIMUM (1) COURSES BELOW LINTEL BEARING.

LOOSE LINTEL SCHEDULE (BRICK VENEER)

MAX OPENING (CLEAR DISTANCE BETWEEN WINDOW/DOOR JAMBS)	LINTEL SIZE
8'-0" & LESS	L6x6x5/16 (LLV)
8'-0" - 9'-0"	L6x6x3/8 (LLV)

EXTERIOR MISC VENEER LINTEL SCHEDULE NOTES:
1. THIS SCHEDULE APPLIES AT ALL OPENINGS IN EXTERIOR VENEER (BRICK, STONE, ETC.).
2. BEAR VENEER LINTEL 8" MINIMUM EACH END.
3. REFER TO ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

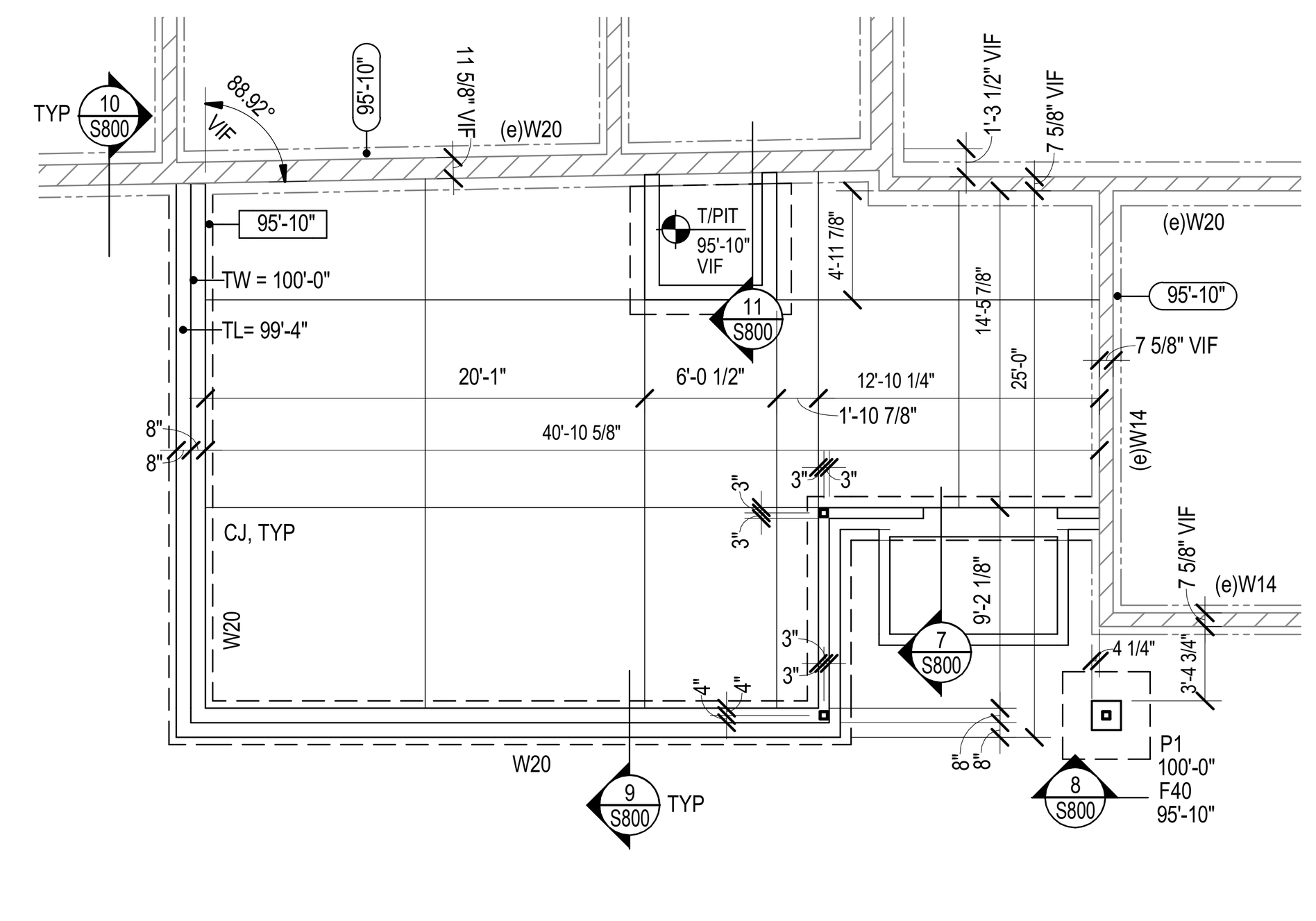
LINTEL SCHEDULE

LINTEL MARK	DESCRIPTION	SECTION	REMARKS
L1	W8X18 WITH 5/16" X0'-7" BOTTOM PLATE	3/16 3-12	
L2	8" HIGH BOND BEAM WITH (2) #5 BARS		

GENERAL NOTES:
1. UNLESS NOTED OTHERWISE ALL LINTELS ARE DROPPED LINTELS PLACED AT OPENING HEIGHT OF WALL. REFER TO ARCH FOR OPENING HEIGHTS.

STEEL LINTEL NOTES:
1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL, UNO.
2. CENTER LINTELS IN WALL STRUCTURAL WALLS UNO.
3. BOTTOM PLATES WHERE CALLED FOR SHALL EXTEND FULL LENGTH OF LINTEL.
4. WELD MULTIPLE STEEL SECTION LINTELS INTO A SINGLE UNITS.
5. SEE DETAIL 5/S810 FOR LINTEL BEARING REQUIREMENTS.
6. LINTELS IN EXTERIOR WALLS ARE TO BE GALVANIZED. LINTELS IN INTERIOR WALLS ARE TO BE PAINTED STEEL.

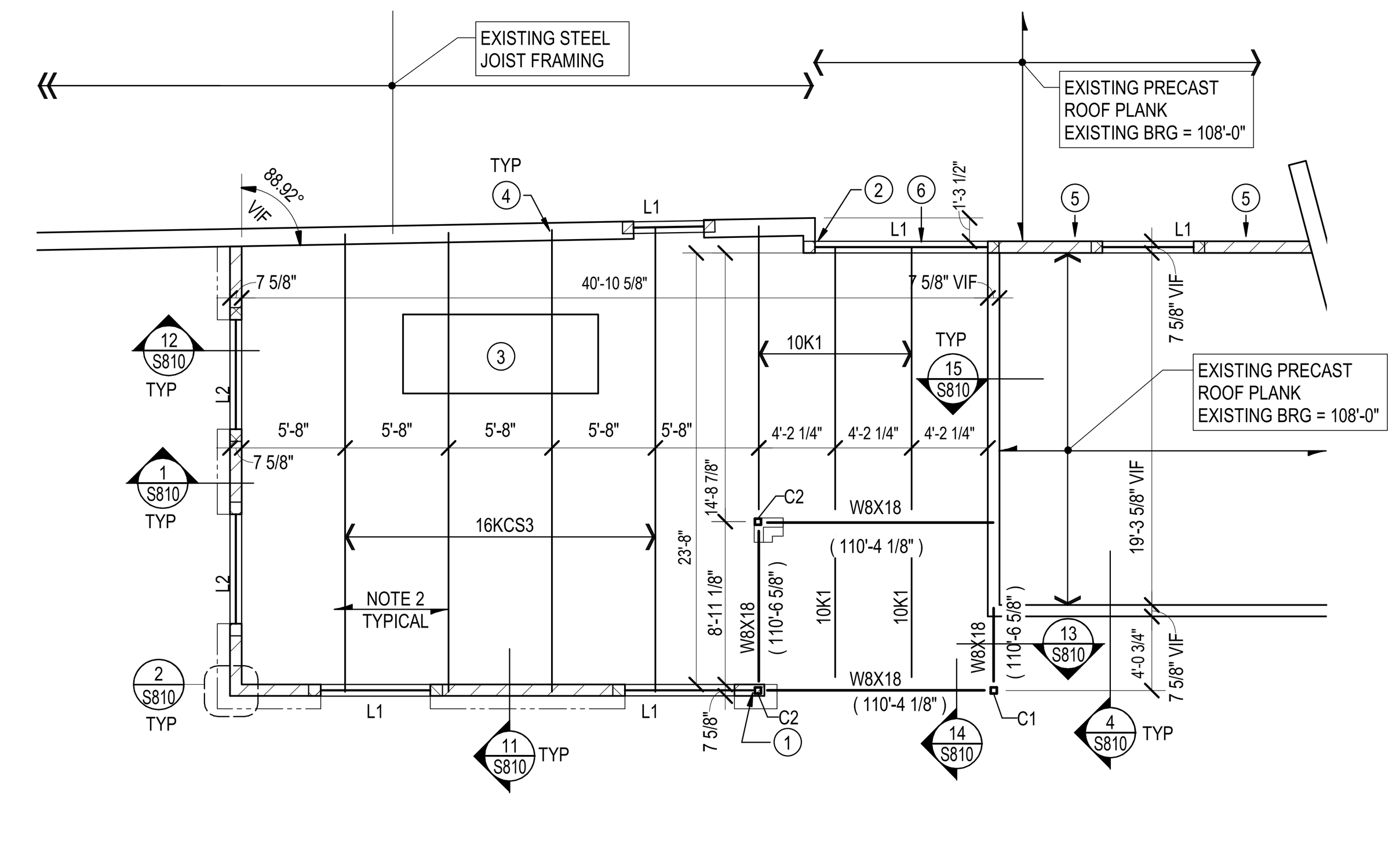
CMU BOND BEAM LINTEL NOTES:
1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL. (RUN REINFORCEMENT 16" PAST BEARING POINT OF LINTEL UNO, BREAK FACE SHELLS AS REQUIRED).
2. BOND BEAM TO MATCH WIDTH OF CMU WALL LINTEL IS IN.
3. GC TO PROVIDE SHORING BENEATH LINTEL AS REQUIRED TILL LINTEL REACHES FULL STRENGTH.
4. ALL REINFORCING STEEL TO BE 60,000 PSI.
5. PROVIDE 2" COVER FOR ALL REINFORCING STEEL.



1 S100 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. FINISH SLAB ELEVATION = 100'-0". LOCAL DATUM UNLESS NOTED OTHERWISE. TOP OF FOOTING ELEVATION = 95'-10" UNLESS NOTED OTHERWISE.
2. SLAB-ON-GRADE TO BE 4" THICK WITH 5 LB./ CU YD. MACRO POLYPROPYLENE SYNTHETIC FIBERS (REFER TO SPECIFICATION) VAPOR BARRIER ON 1/2" CHOKER COURSE OVER 6" COARSE STONE BASE UNLESS NOTED OTHERWISE.
3. TYPICAL WHERE SLAB-ON-GRADE ABUTS WALL OR COLUMN, PROVIDE 1/4" x (SOG THICKNESS) ISOLATION FILLER STRIP. SET STRIP 1/4" BELOW FINISH SLAB ELEVATION.
4. OVER-EXCAVATION PER DETAIL 4/S800 MAY BE REQUIRED TO REMOVE EXISTING UNDOCUMENTED FILL AND UNSUITABLE BEARING SOIL.
5. TYPICAL DETAILS THAT APPLY TO PLAN INCLUDE:
   - 1/S800 SLAB-ON-GRADE JOINT DETAIL
   - 2/S800 CONCRETE WALL JOINT DETAIL
   - 3/S800 CORNER REINFORCEMENT DETAIL
   - 5/S800 FOOTING STEP DETAIL
   - 6/S800 WALL FOOTING OVER LATERAL



2 S100 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

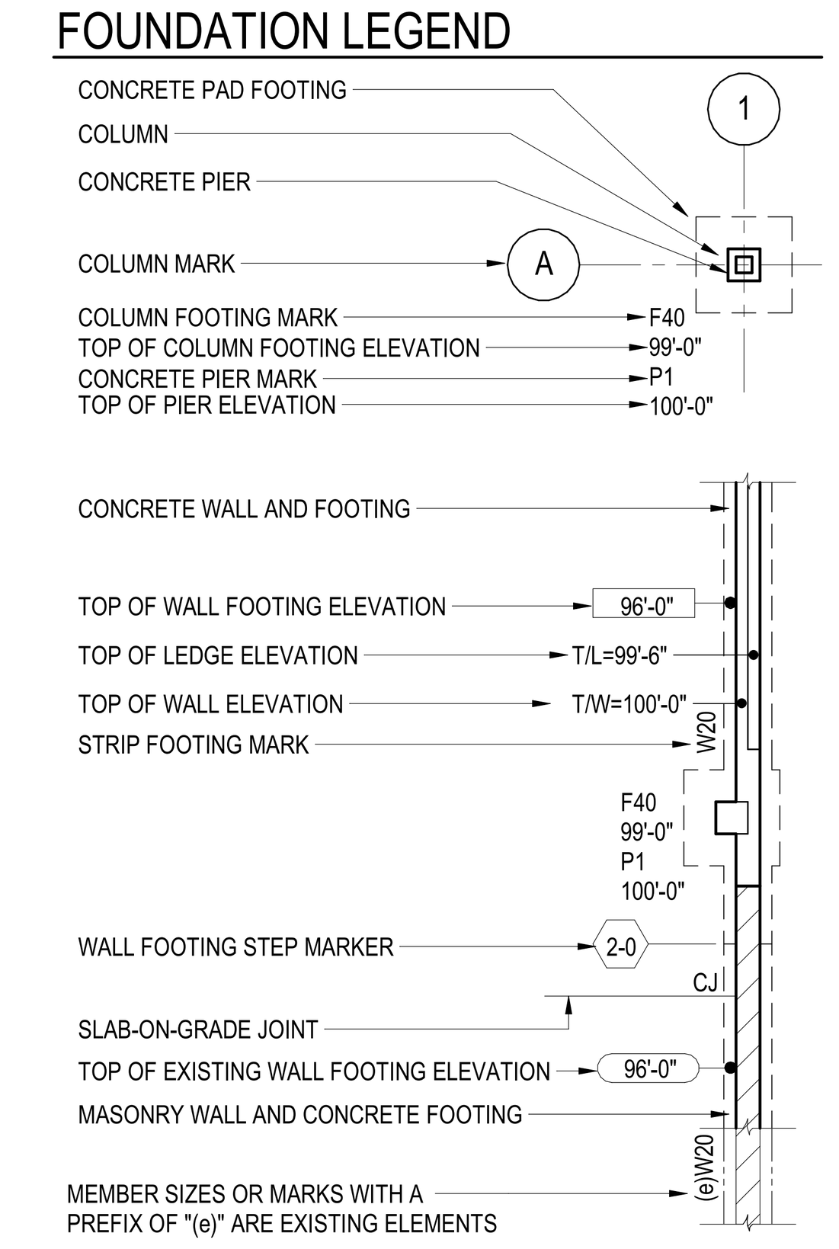
ROOF FRAMING PLAN NOTES

1. TOP OF STEEL IS AS NOTED ON DRAWINGS.
2. ROOF DECKING SHALL BE 1 1/2" x 22GA WIDE RIB PRIME PAINTED METAL ROOF DECK FASTENED TO SUPPORTING STRUCTURE USING 36/4 PATTERN OF ANY OF THE ATTACHMENT METHODS SHOWN IN DETAIL 6/S810 WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE DECK WITH THE FOLLOWING PROPERTIES:
   THICK = 0.0295 in I_p = 0.155 in^4/ft S_p = 0.186 in^3/ft
   F_y = 33 KSI I_p = 0.183 in^4/ft S_n = 0.192 in^3/ft
   INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.
3. PROVIDE 8" TALL BOND BEAM WITH (2) #5 CONTINUOUS AT JOIST BEARING ELEVATIONS UNLESS NOTED OTHERWISE. WHERE JOIST BEARING IS NOT AT COURSING, PROVIDE PARTIAL HEIGHT BLOCK GROUTED SOLID TO TOP OF BOND BEAM. WIDTH OF BOND BEAM TO MATCH WALL THICKNESS AND IS TO RUN CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE CORNER BARS WHERE THEY OCCUR AND LAP ALL BOND BEAM STEPS A MINIMUM OF 24". CONTINUE BOND BEAM ELEVATION AT END WALLS PER DETAIL 12/S810.
4. UNLESS NOTED OTHERWISE ALL CMU WALLS SHALL HAVE #5 VERTICAL BARS WITH MATCHING DOWELS TO CONCRETE CENTERED IN CELLS AT 96" OC.
5. REFER TO 1/S810 FOR TYPICAL REINFORCED CMU WALL CONSTRUCTION. REFER TO 2/S810 FOR MASONRY BOND BEAM CORNER REINFORCEMENT. REFER TO 3/S810 FOR KEY CMU CONTROL JOINTS DETAIL.
6. JOIST SUPPLIER TO PROVIDE HORIZONTAL BRIDGING AT FIRST BOTTOM CHORD PANEL POINT. JOIST SUPPLIER TO PROVIDE CONTINUOUS TOP AND BOTTOM CHORD HORIZONTAL BRIDGING AS REQUIRED TO RESIST UPLIFT LOADING. PROVIDE DIAGONAL X-BRIDGING WHERE INDICATED AND AS REQUIRED.
7. PROVIDE ANGLE FRAME SUPPORT AT ALL ROOF OPENINGS IN ACCORDANCE WITH DETAIL 7/S810. AT SMALLER OPENINGS PROVIDE REINFORCEMENT PER DETAIL 8/S810.
8. ALL BAR JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 0.6*WL = 15 PSF IN ADDITION TO GRAVITY VERTICAL LOADS REQUIRED BY THE BAR JOIST DESIGNATION.
9. PROVIDE (1) MC6X15.1 AND (1) C12X20.7 BELOW ROOFTOP UNIT CURB PER DETAIL 10/S810 AND REINFORCE JOIST AS NEEDED AT CURB LOCATION IN ACCORDANCE WITH DETAILS 9/S810.
10. JOIST BEARING AT CMU WALLS= 110' - 4 1/8"

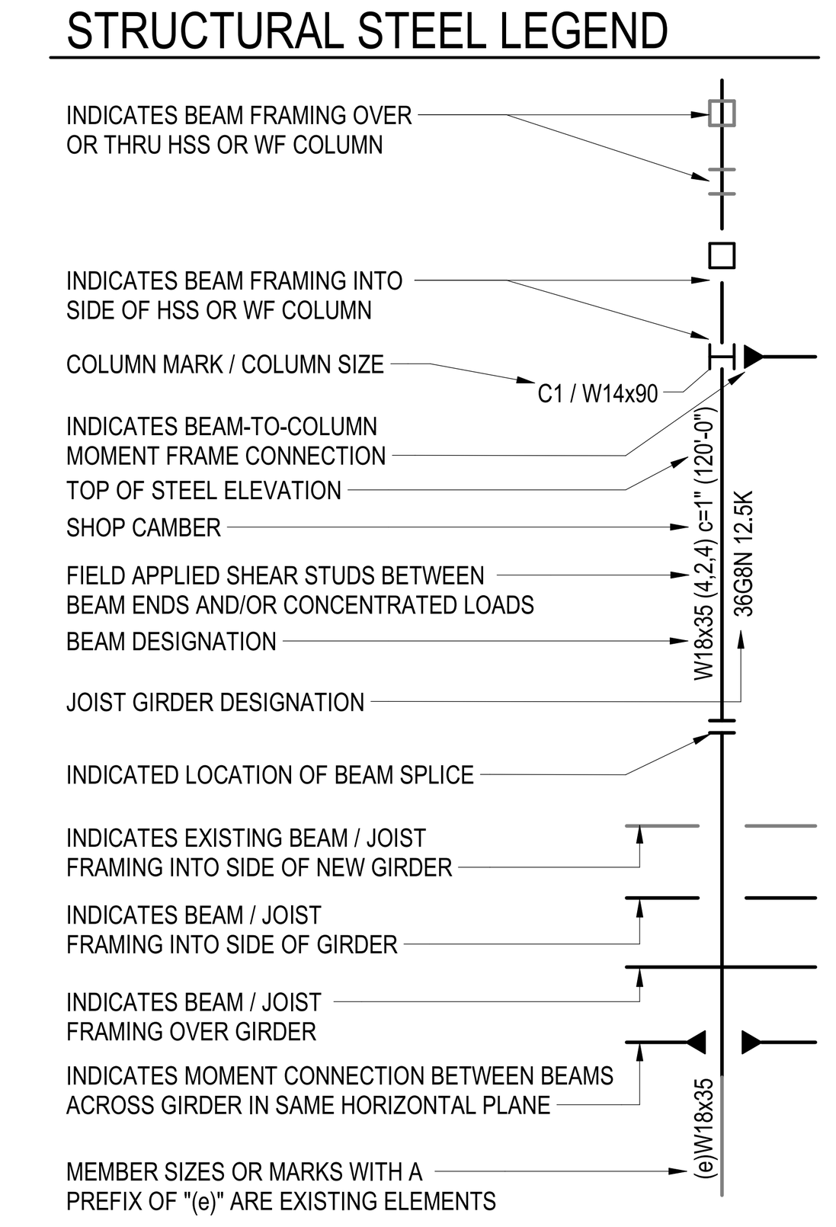
ROOF FRAMING KEY NOTES

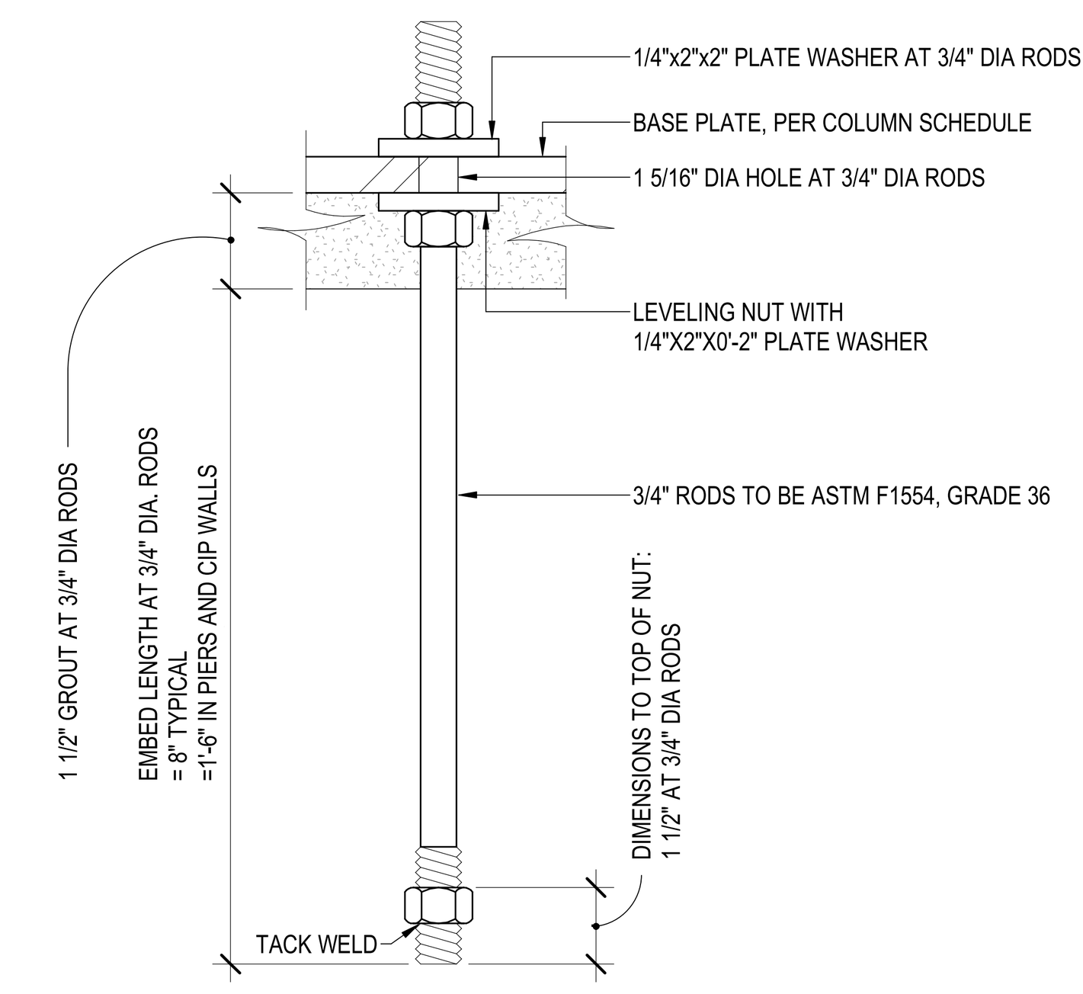
1. CONNECT LINTEL TO STEEL COLUMN WITH (2) BOLT SHEAR TAB CONNECTION.
2. GROUT CMU SOLID FULL-HEIGHT AT NEW LINTEL BEARING LOCATION.
3. MECHANICAL UNIT WITH WEIGHT OF 900 LB. G.C. TO COORDINATE EXACT LOCATION AND WEIGHT.
4. GROUT (1) CORE OF CMU SOLID FOR 12" IN ALL DIRECTIONS OF NEW STEEL JOIST BEARING PLATE. PROVIDE BEARING PLATE PER DETAIL 11/S810.
5. EXISTING CMU WALL TO BE REMOVED (REFER TO ARCH DEMO DRAWINGS) AND REPLACED WITH NEW CMU. EXISTING BOND BEAM/GROUTED BLOCK AT TOP OF WALL TO REMAIN. PROVIDE NEW CMU WALL AS NOTED REFER TO 16/S800 FOR DOWEL CONNECTIONS AT THE TOP AND BOTTOM OF WALL.
6. PROVIDE EXTENSION OF CMU WALL ALIGNED WITH EXISTING WALL BELOW WITH BOND BEAM AS NOTED IN DETAIL 15/S810. PROVIDE JOIST BEARING PLATE PER DETAIL 11/S810 AT EACH JOIST.

FOUNDATION LEGEND



STRUCTURAL STEEL LEGEND



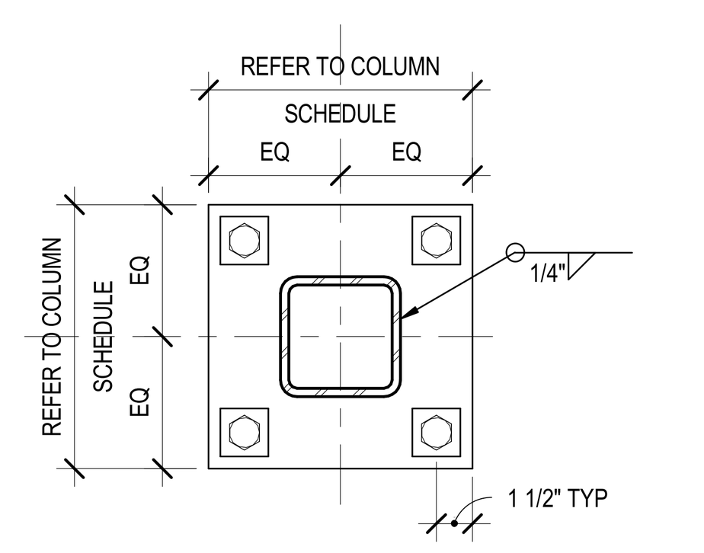


3 S100 3/4" DIA. ANCHOR RODS
SCALE: 3" = 1'-0"

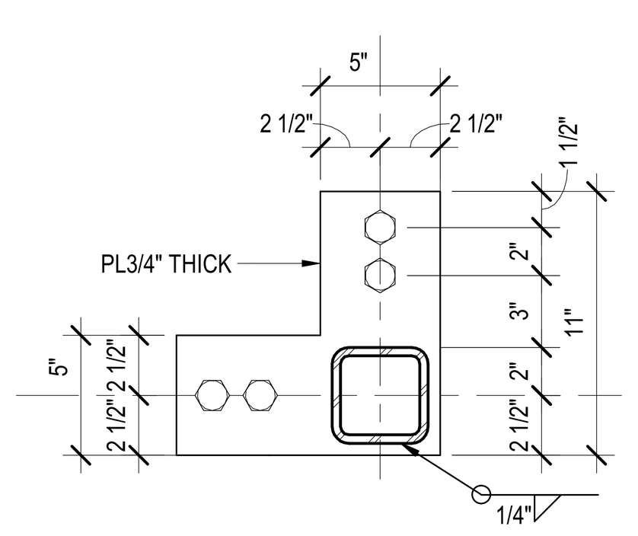
STEEL COLUMN SCHEDULE

MARK	C1	C2
DETAIL	-	-
CAP PLATE	1/4"	1/4" (NOTE 2)
ROOF / TOP OF SLAB	HSS4X4X1/4	HSS4X4X1/4
BASE PLATE	3/4"X10"X0'-10"	5/S100
ANCHOR BOLTS	(4) 3/4" DIA.	(4) 3/4" DIA.
SPACING	7"X7"	5/S100
DETAIL	4/S100	5/S100

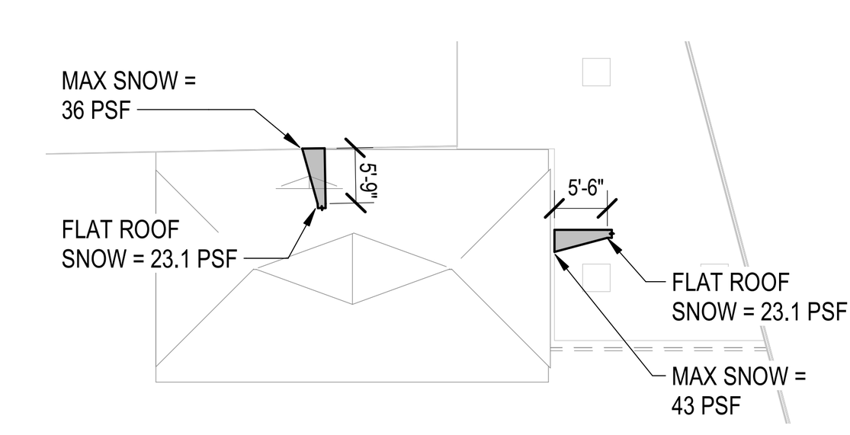
COLUMN SCHEDULE NOTES
1. FASTEN COLUMN TO TOP OF CONCRETE USING (4) ANCHOR BOLTS 3/4" DIA. ASTM F1554 GRADE 36 ANCHOR RODS PER 3/S100 UNLESS NOTED OTHERWISE.
2. PROVIDE 1/2" THICK COLUMN CAP AT LOCATIONS JOIST BEAR ON COLUMN CAP PLATE.
3. COLUMNS HAVE BEEN SIZED TO ACCEPT INFRAMING MEMBERS VIA SINGLE PLATE SHEAR CONNECTION PLATE WELDED TO COLUMN BOLTED TO BEAM UNLESS SPECIFICALLY DETAILED OTHERWISE.



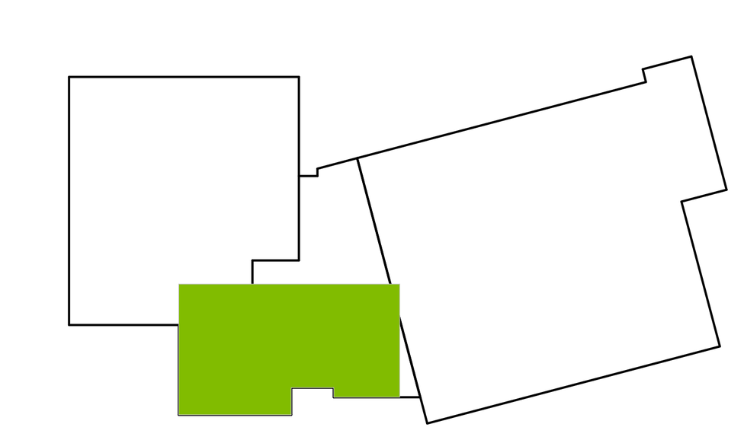
4 S100 HSS ANCHOR LAYOUT
SCALE: 1 1/2" = 1'-0"



5 S100 HSS ANCHOR LAYOUT
SCALE: 1 1/2" = 1'-0"



6 S100 SNOW PLAN
SCALE: 1" = 20'-0"



KEY PLAN

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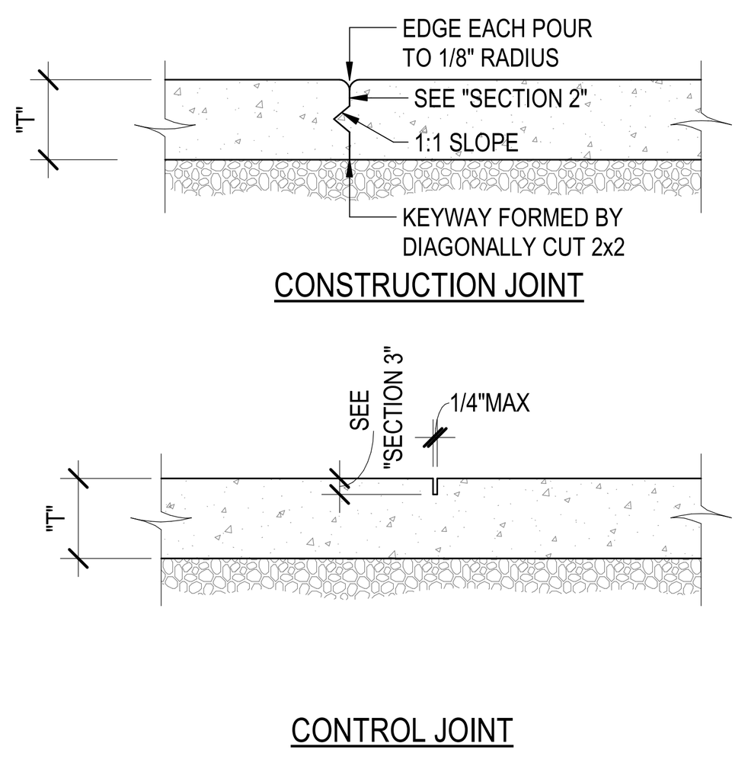


SECTION 1: SLAB-ON-GRADE NOTES

- SLAB-ON-GRADE CONSTRUCTION SHOULD CONFORM WITH THE RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE LATEST RELEASE OF ACI 302 GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
- REFER TO THE GENERAL NOTES, THE SPECIFICATIONS AND THE DRAWINGS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION, AND/OR MUD SLAB AND VAPOR RETARDER REQUIREMENTS.
- THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
- REFER TO PLANS FOR SLAB THICKNESS ("T") AND REINFORCEMENT (WWF OR REINFORCEMENT BARS). REFER TO SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCING BARS SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
- PROVIDE (2) #5 x6'-0" AT ALL RE-ENTRANT CORNERS AND OTHER SIMILAR SLAB DISCONTINUITIES.
- UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36x("T") UNO. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.

SECTION 2: CONTRUCTION JOINT NOTES

- BREAK THE BOND BETWEEN NEW AND PREVIOUSLY PLACED SLABS BY SPRAYING OR BY PAINTING THE EXPOSED SIDE OF THE JOINT WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.

SECTION 3: CONTROL JOINT NOTES

- FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
- DEPTH OF SAW-CUT SHOULD BE 1-1/4" IF PRODUCED USING THE EARLY ENTRY DRY-CUT PROCESS AND "T"/4 (1" MIN) IF PRODUCED USING THE CONVENTIONAL WET-CUT PROCESS.
- REFER TO SPECIFICATIONS REGARDING EPOXY RESIN OR ELASTOMERIC SEALANT REQUIREMENTS FILL CONTROL JOINTS.

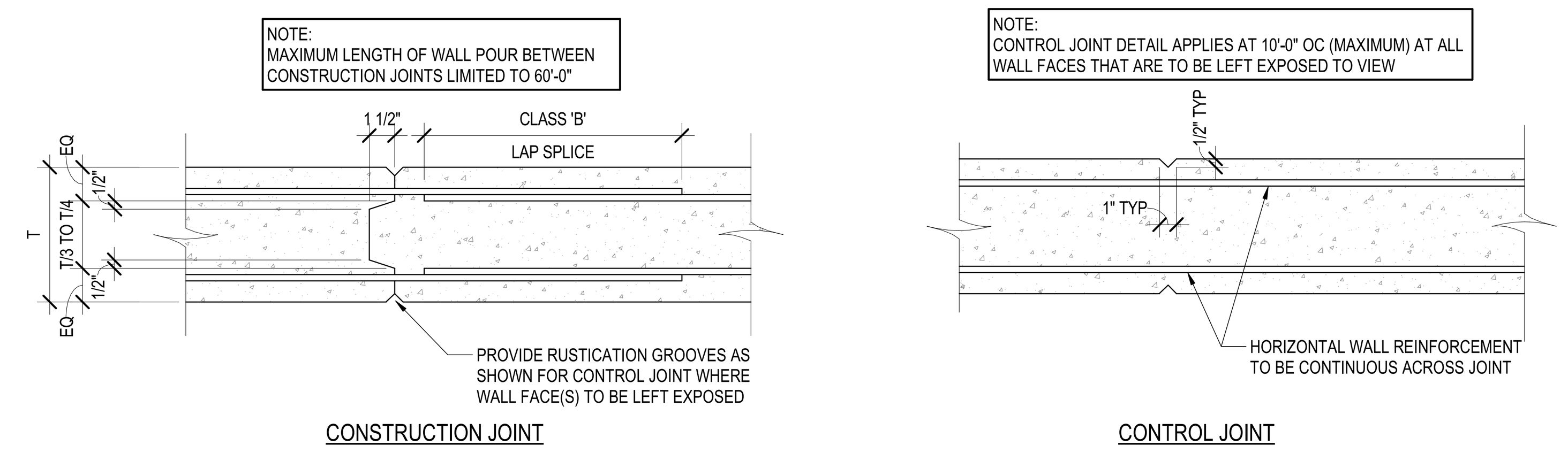
SECTION 4: FORMED CONTROL JOINT OPTION NOTES

- FORM CONTROL JOINTS BY INSERTING A PRE-MOLDED STRIP INTO THE FRESH CONCRETE UNTIL THE TOP SURFACE OF THE STRIP IS FLUSH WITH THE TOP SURFACE OF THE SLAB.
- TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8" MAX RADIUS.
- AFTER THE CONCRETE HAS CURED, REMOVE THE INSERTS AND CLEAN THE GROOVE OF LOOSE DEBRIS.

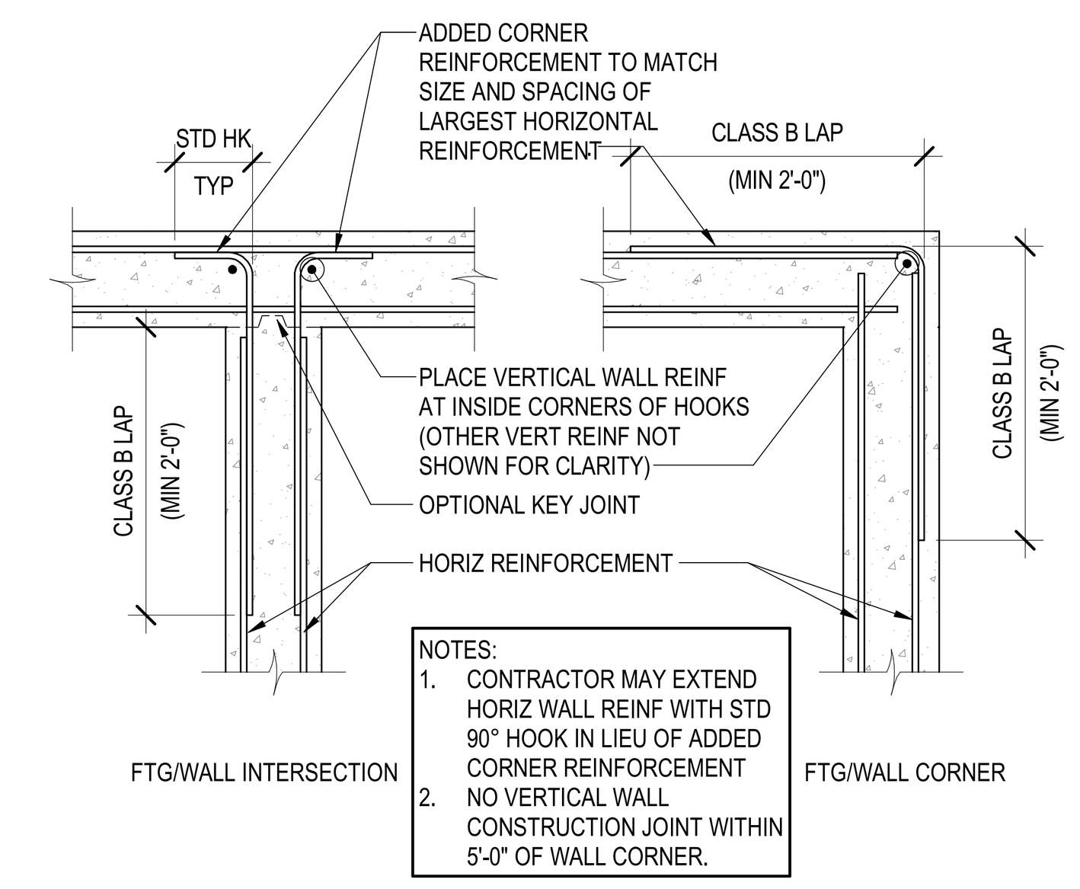
1 S800 SLAB-ON-GRADE JOINT DETAIL
SCALE: 1" = 1'-0"

NOTE:
MAXIMUM LENGTH OF WALL POUR BETWEEN CONSTRUCTION JOINTS LIMITED TO 60'-0"

NOTE:
CONTROL JOINT DETAIL APPLIES AT 10'-0" OC (MAXIMUM) AT ALL WALL FACES THAT ARE TO BE LEFT EXPOSED TO VIEW

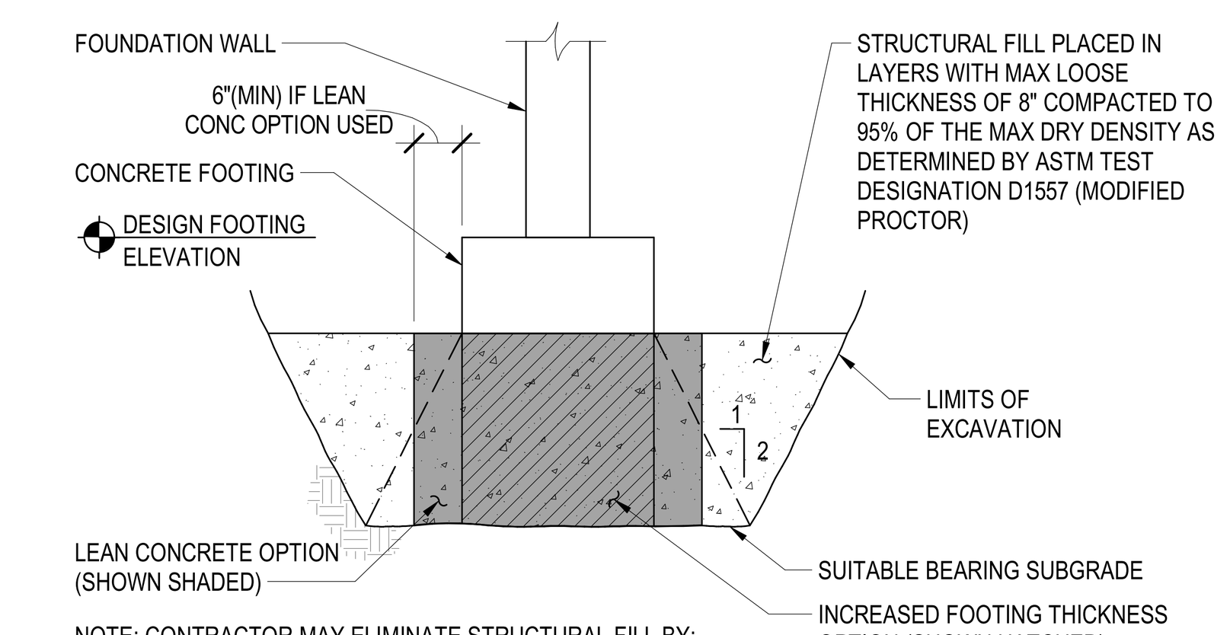


2 S800 CONCRETE WALL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



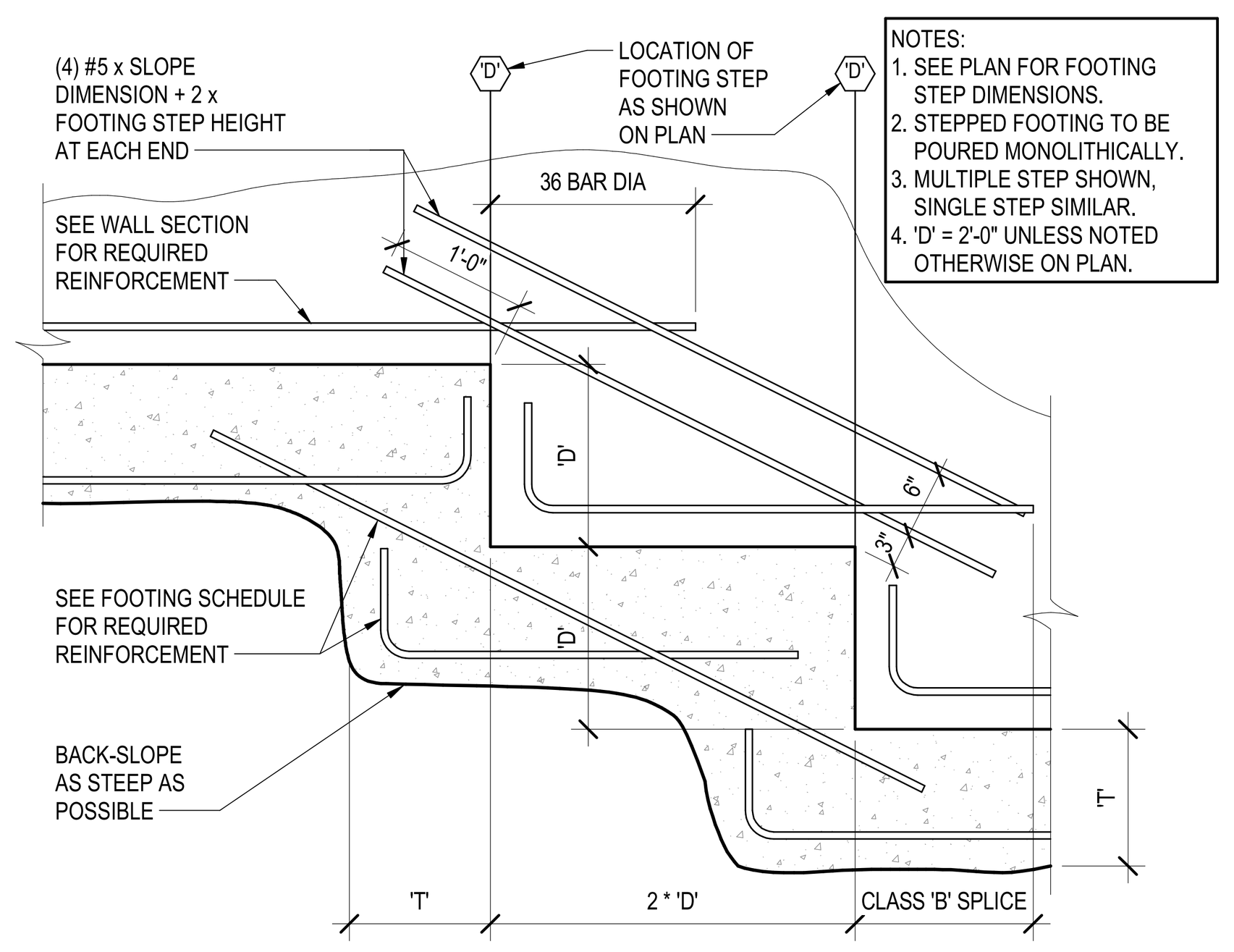
NOTES:
1. CONTRACTOR MAY EXTEND HORIZ WALL REINF WITH STD 90° HOOK IN LIEU OF ADDED CORNER REINFORCEMENT
2. NO VERTICAL WALL CONSTRUCTION JOINT WITHIN 5'-0" OF WALL CORNER.

3 S800 CORNER REINFORCEMENT DETAIL
SCALE: 3/4" = 1'-0"



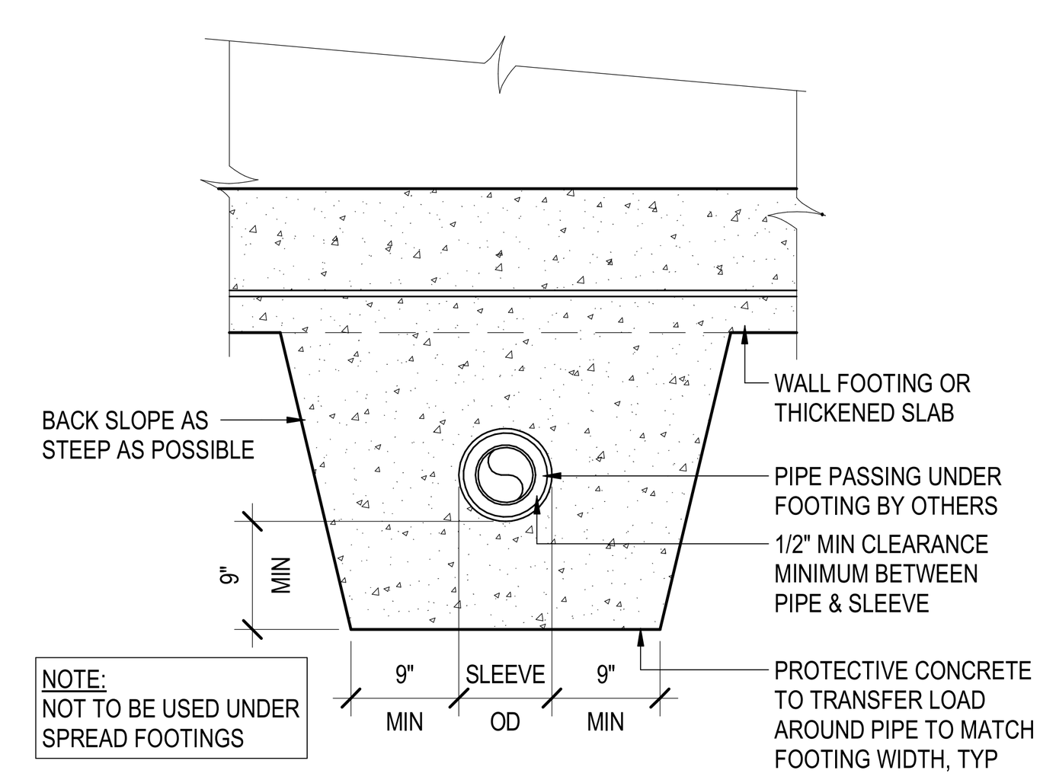
NOTE: CONTRACTOR MAY ELIMINATE STRUCTURAL FILL BY:
1. LOWERING DESIGNED FOOTING ELEVATION SO THAT FOOTING RESTS DIRECTLY ON SUITABLE BEARING SUBGRADE
2. PROVIDING LEAN CONCRETE (fc = 500 PSI) UNDER THE FOOTING TO SUITABLE BEARING SUBGRADE AS SHOWN SHADED ABOVE. (NOT APPLICABLE IN GRANULAR SOILS)
3. INCREASING FOOTING THICKNESS TO REACH SUITABLE BEARING SUBGRADE AS SHOWN HATCHED ABOVE.

4 S800 OVER EXCAVATION
SCALE: 1/2" = 1'-0"



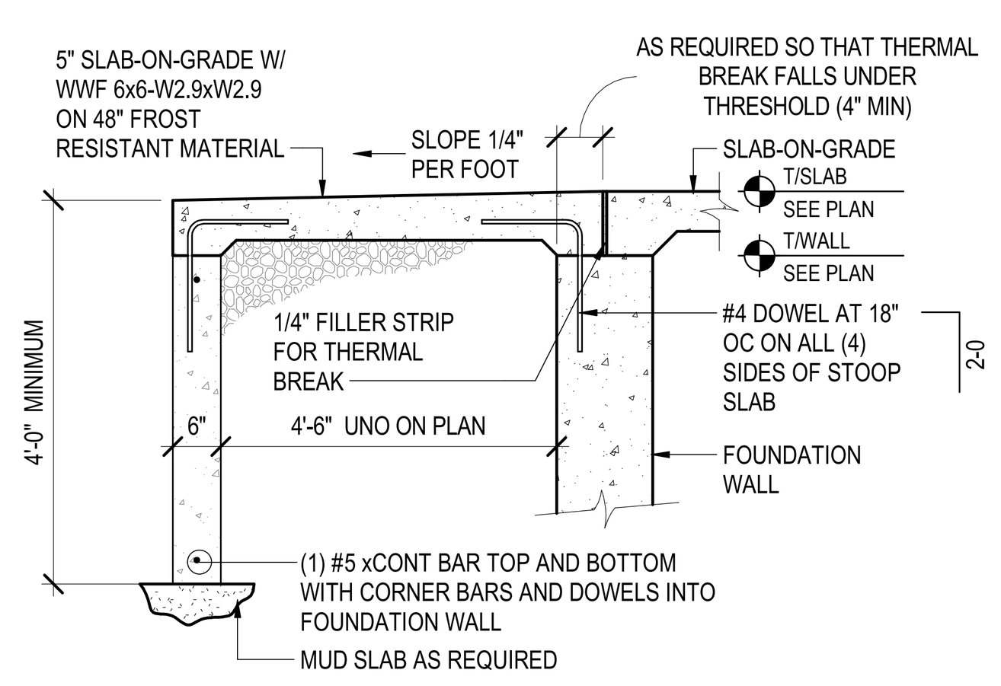
NOTES:
1. SEE PLAN FOR FOOTING STEP DIMENSIONS.
2. STEPPED FOOTING TO BE POURED MONOLITHICALLY.
3. MULTIPLE STEP SHOWN, SINGLE STEP SIMILAR.
4. 'D' = 2'-0" UNLESS NOTED OTHERWISE ON PLAN.

5 S800 FOOTING STEP DETAIL
SCALE: 3/4" = 1'-0"



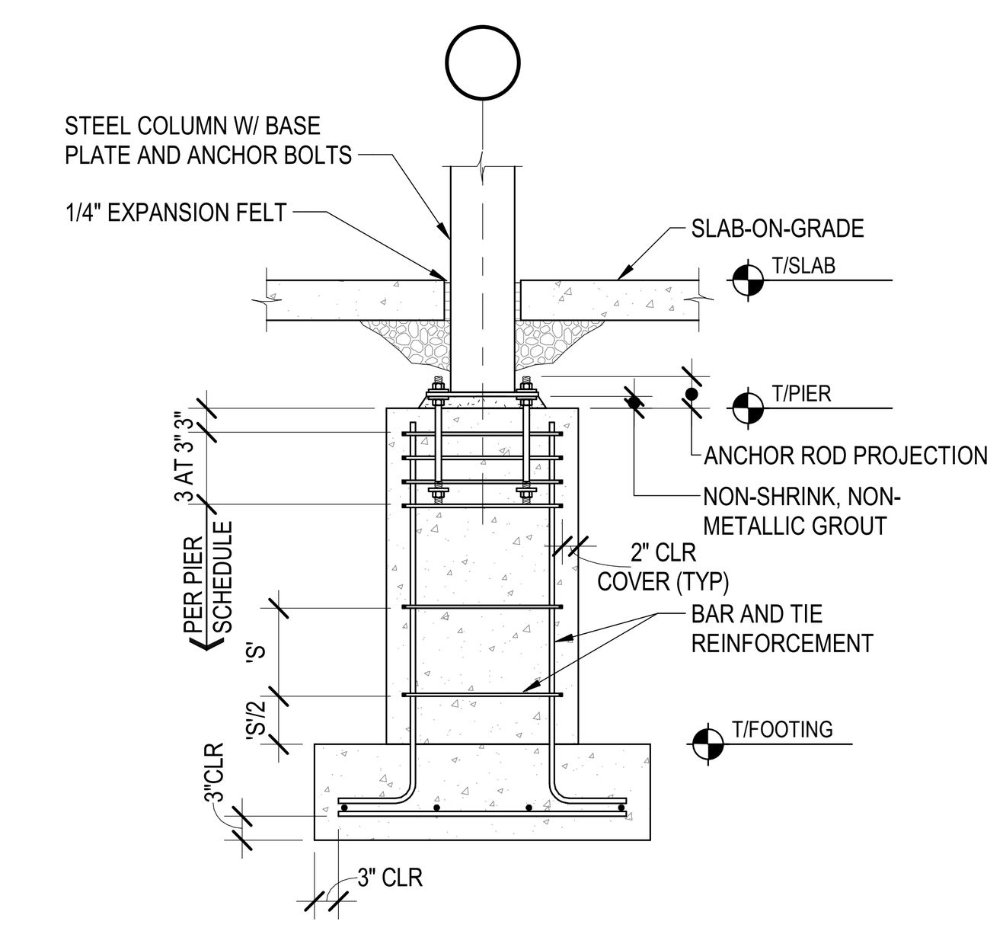
NOTE:
NOT TO BE USED UNDER SPREAD FOOTINGS

6 S800 PIPE PASSING UNDER WALL FOOTING
SCALE: 3/4" = 1'-0"

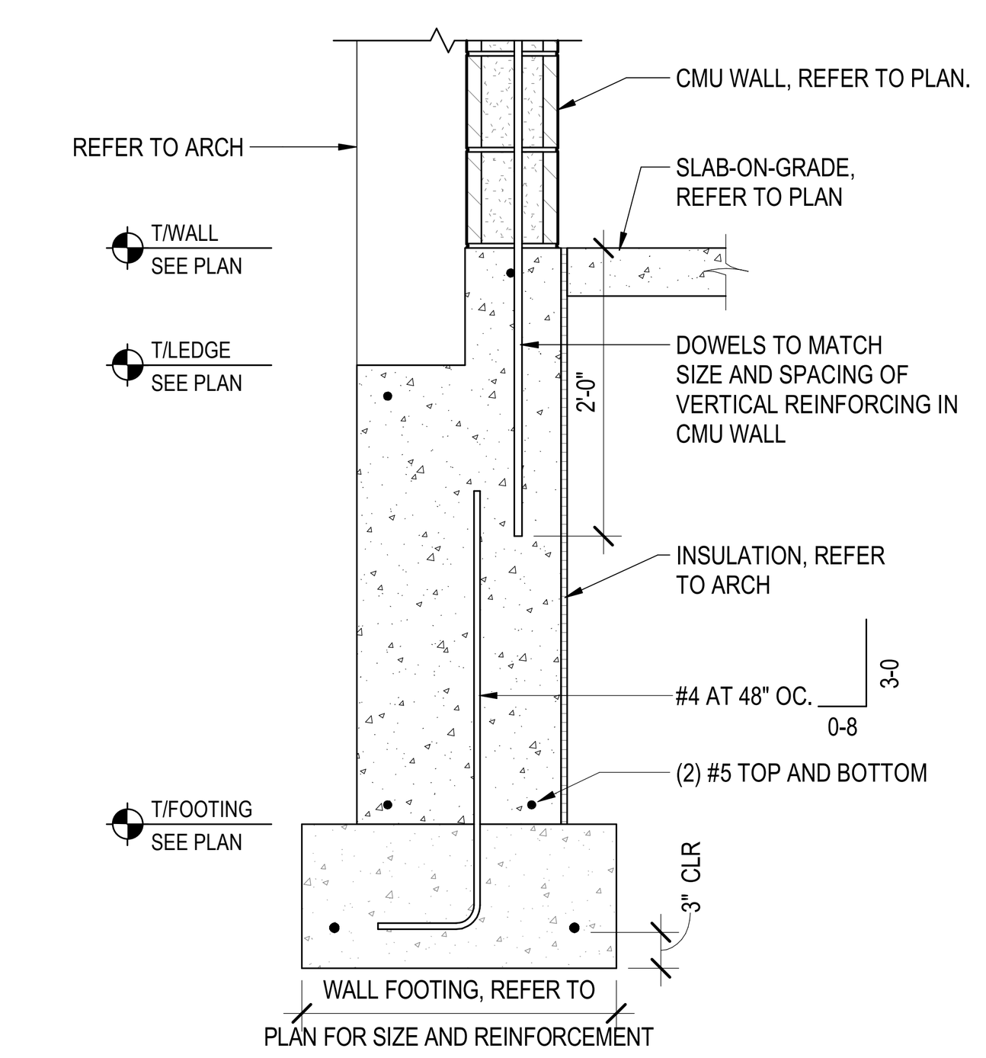


NOTE:
REFER TO ARCH DRAWINGS BUT AS A MINIMUM, PROVIDE 5'-0" WIDE (1'-6" PAST HANDLE SIDE OF DOOR) AT SINGLE DOORS AND 8'-0" WIDE AT DOUBLE DOORS.

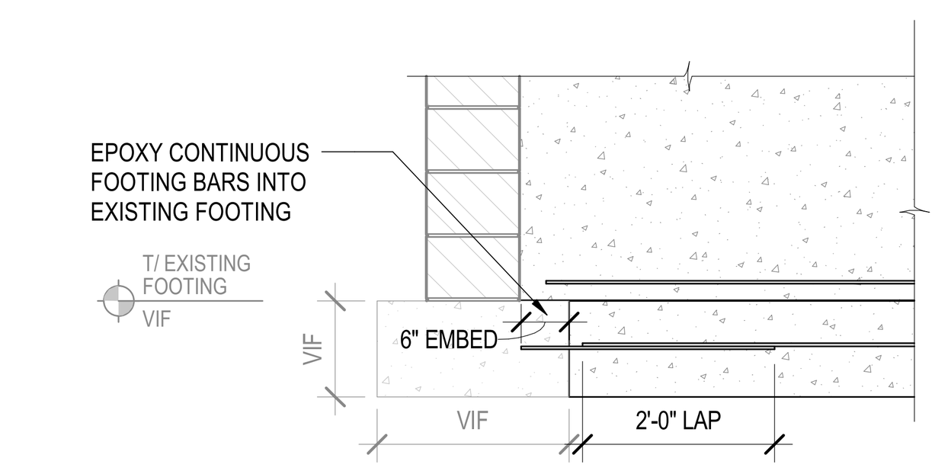
7 S800 STOOP DETAIL AT NEW
SCALE: 1/2" = 1'-0"



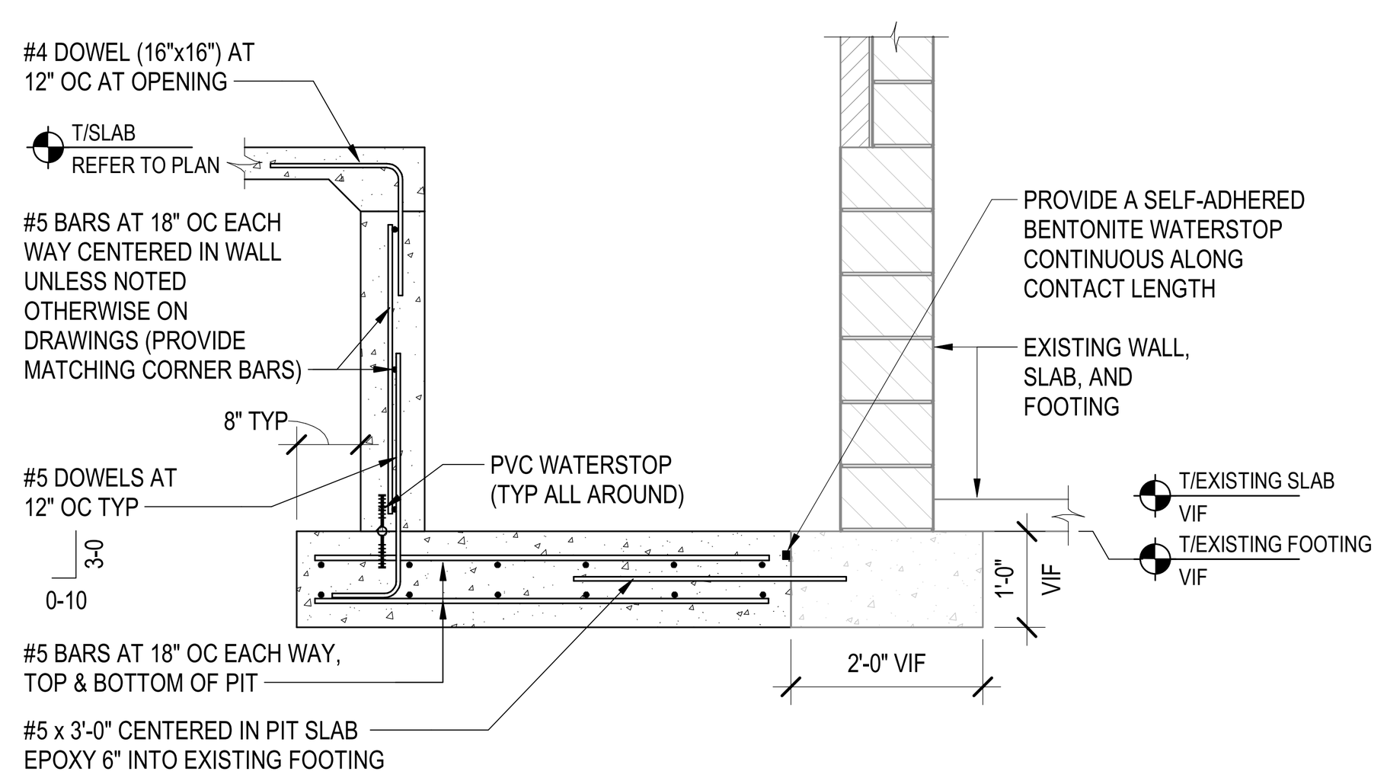
8 S800 TYPICAL CONCRETE PIER
SCALE: 1/2" = 1'-0"



9 S800 TYPICAL EXTERIOR WALL
SCALE: 3/4" = 1'-0"



10 S800 FOOTING DOWELS AT EXISTING
SCALE: 1/2" = 1'-0"



11 S800 LIFT SLAB
SCALE: 1/2" = 1'-0"

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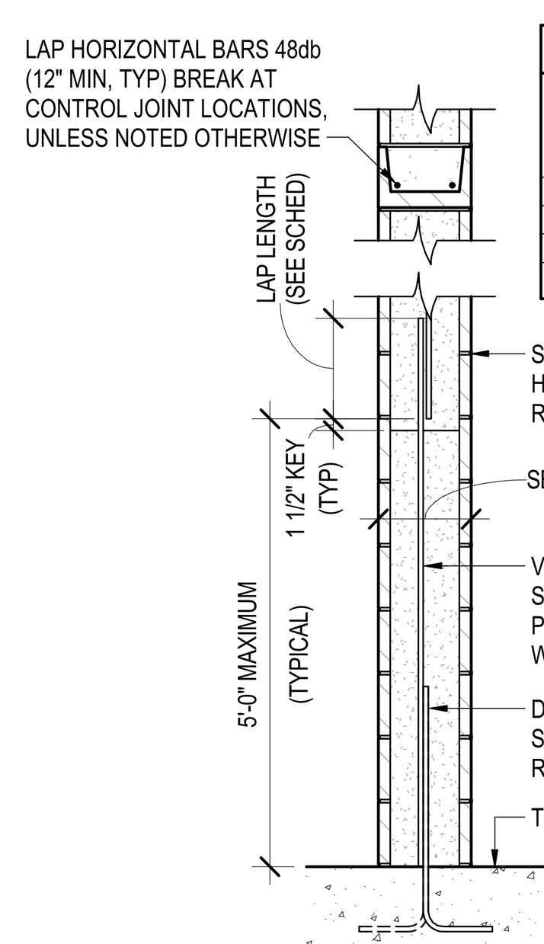
REVISIONS:

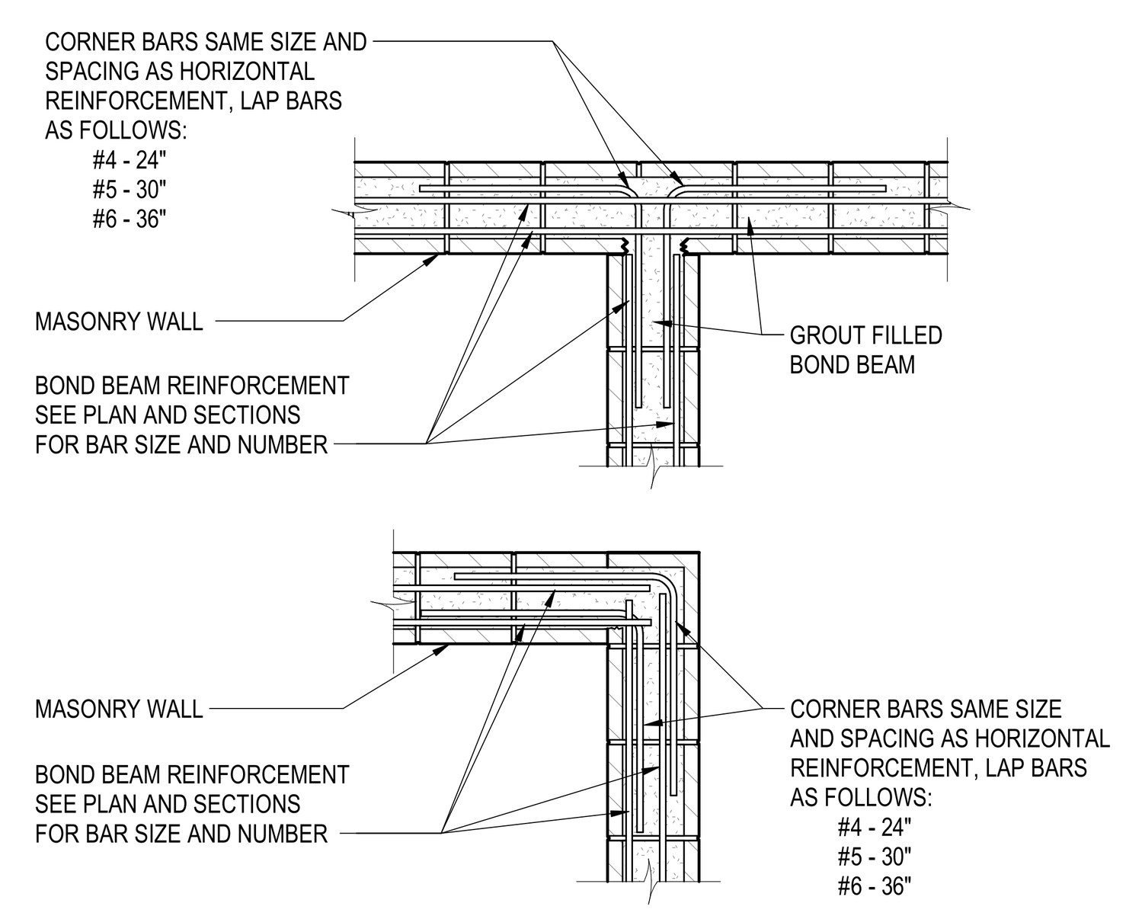
FOUNDATION DETAILS

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: S800

LAP LENGTH SCHEDULE		
BAR SIZE	BARS EACH FACE OR 2" CLEAR COVER (in)	BARS CENTERED IN WALL OR ≥ 5 db COVER (in)
#4	21 (42 db)	17 (33 db)
#5	33 (52 db)	21 (33 db)
#6	54 (72 db)	33 (43 db)
#7	63 (72 db)	38 (43 db)

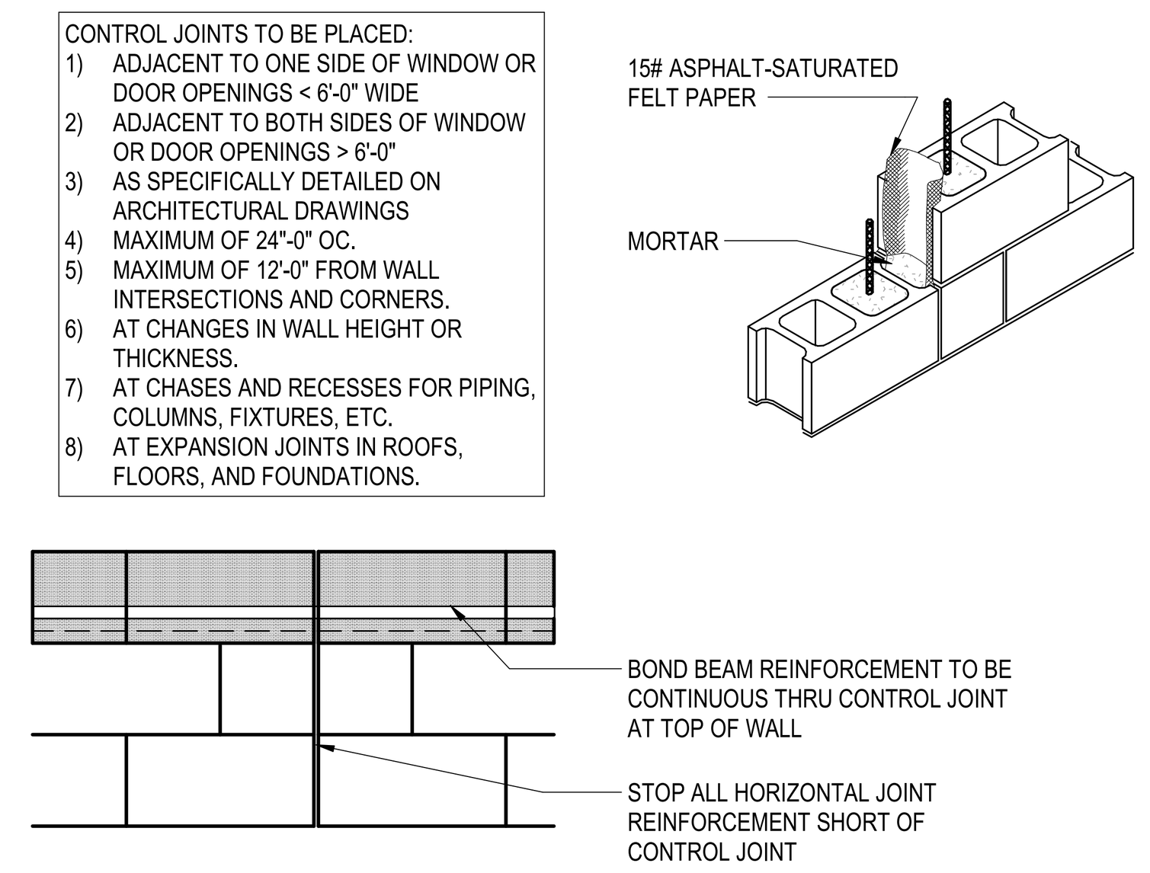


1 S810 TYP REINFORCED CMU WALL CONSTRUCTION
SCALE: 1/2" = 1'-0"

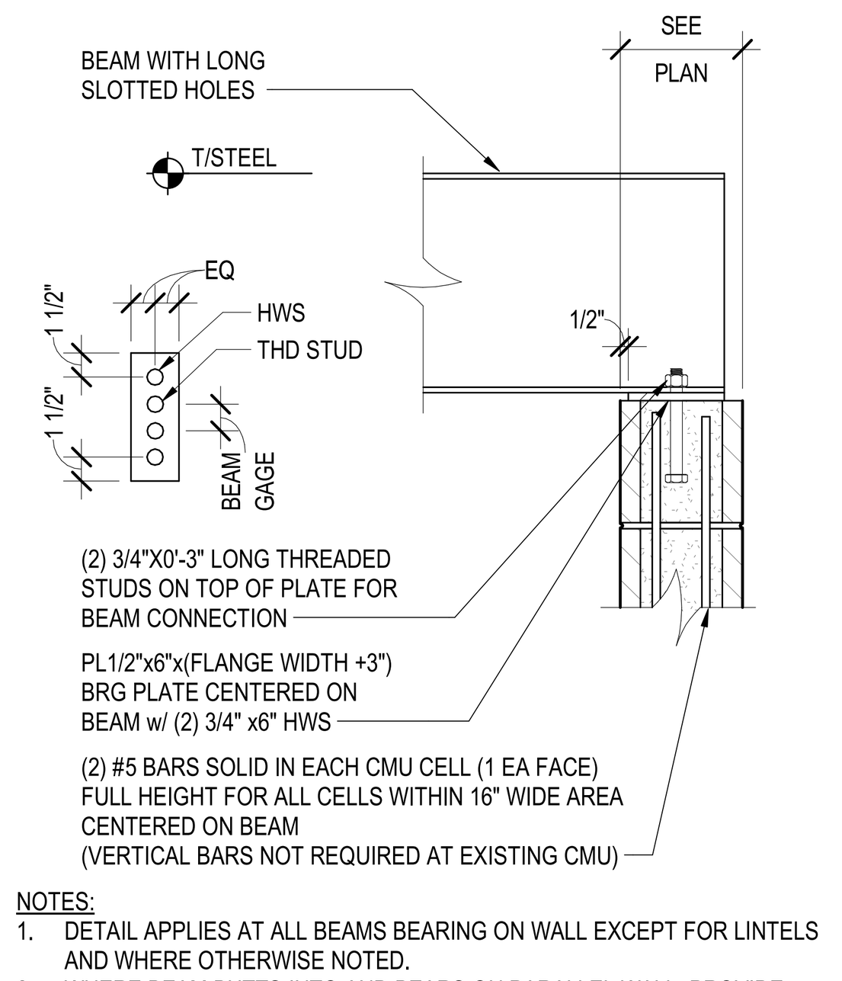


2 S810 MASONRY BOND BEAM CORNER REINFORCEMENT
SCALE: 3/4" = 1'-0"

CONTROL JOINTS TO BE PLACED:
1) ADJACENT TO ONE SIDE OF WINDOW OR DOOR OPENINGS < 6'-0" WIDE
2) ADJACENT TO BOTH SIDES OF WINDOW OR DOOR OPENINGS > 6'-0"
3) AS SPECIFICALLY DETAILED ON ARCHITECTURAL DRAWINGS
4) MAXIMUM OF 24"-0" OC.
5) MAXIMUM OF 12'-0" FROM WALL INTERSECTIONS AND CORNERS.
6) AT CHANGES IN WALL HEIGHT OR THICKNESS.
7) AT CHASES AND RECESSES FOR PIPING, COLUMNS, FIXTURES, ETC.
8) AT EXPANSION JOINTS IN ROOFS, FLOORS, AND FOUNDATIONS.

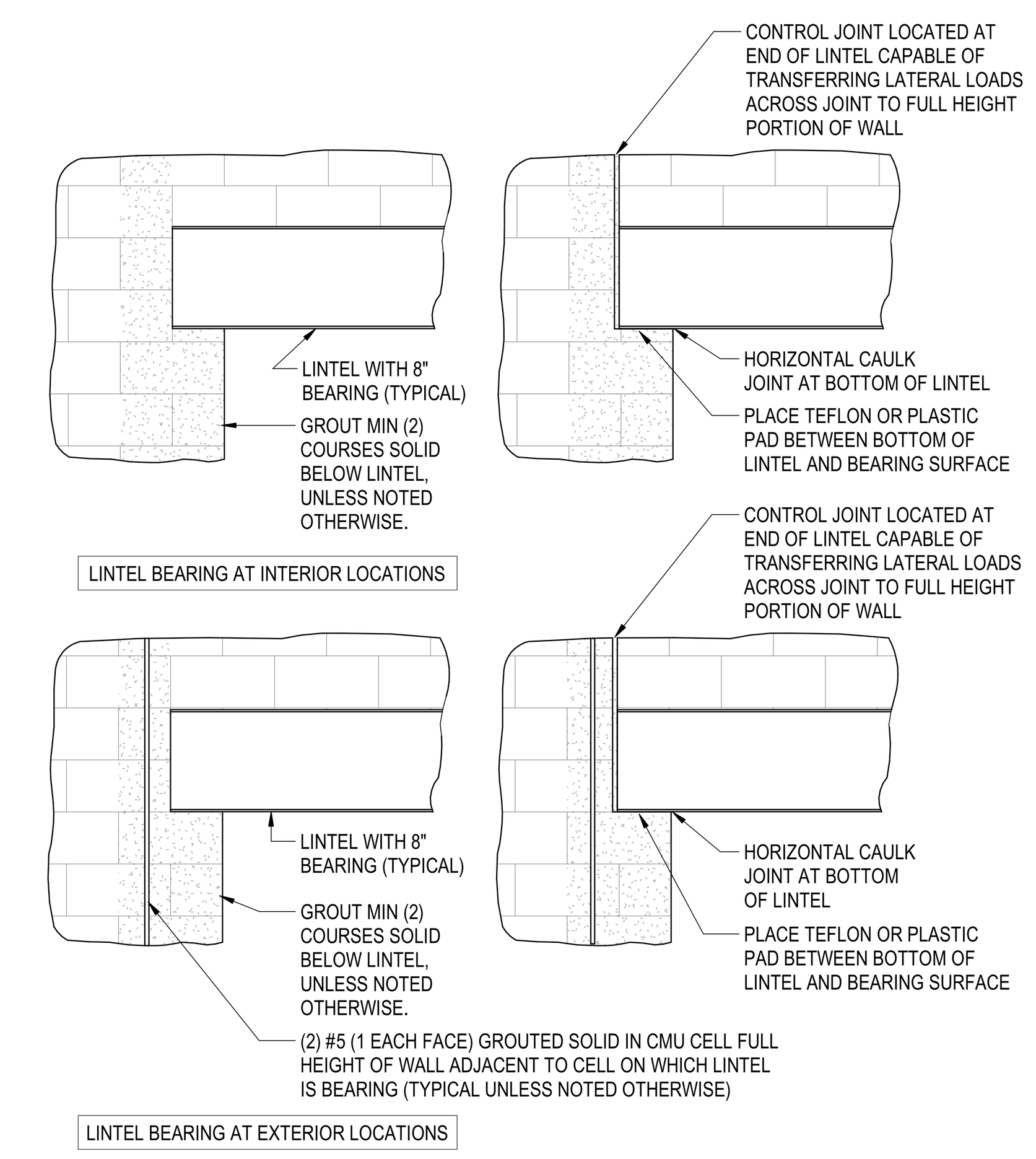


3 S810 KEYED CMU CONTROL JOINTS
SCALE: 12" = 1'-0"

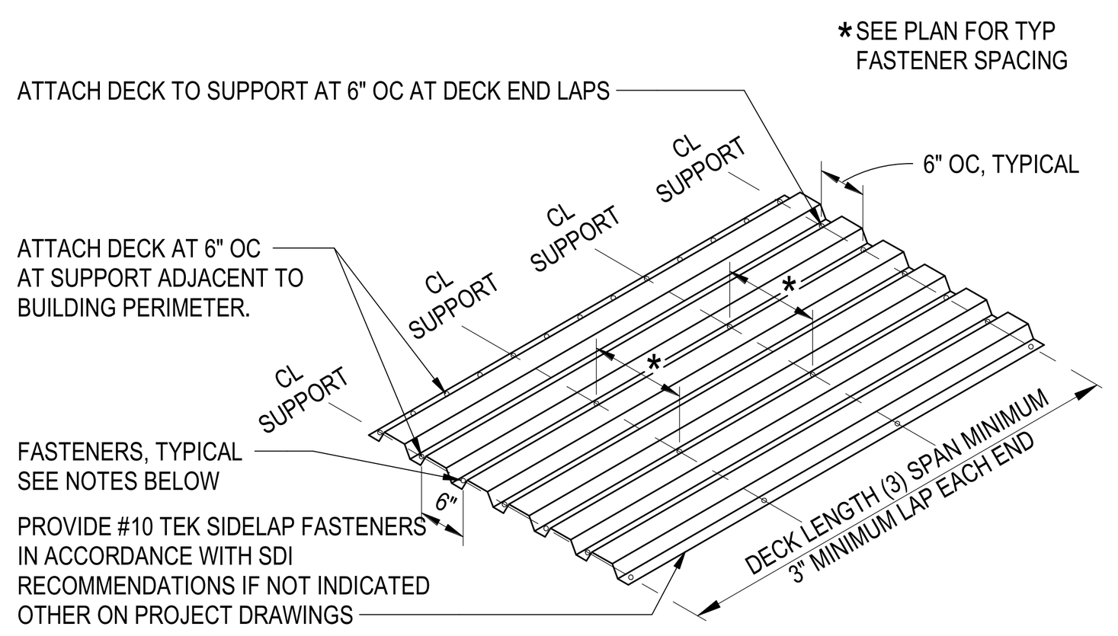


NOTES:
1. DETAIL APPLIES AT ALL BEAMS BEARING ON WALL EXCEPT FOR LINTELS AND WHERE OTHERWISE NOTED.
2. WHERE BEAM BUTTS INTO AND BEARS ON PARALLEL WALL, PROVIDE 3/4"x12"x(FLANGE WIDTH +3", BUT NO GREATER THAN WALL WIDTH-1") BEARING PLATE SIMILAR TO ABOVE

4 S810 BEAM BEARING AT CMU WALL
SCALE: 1" = 1'-0"

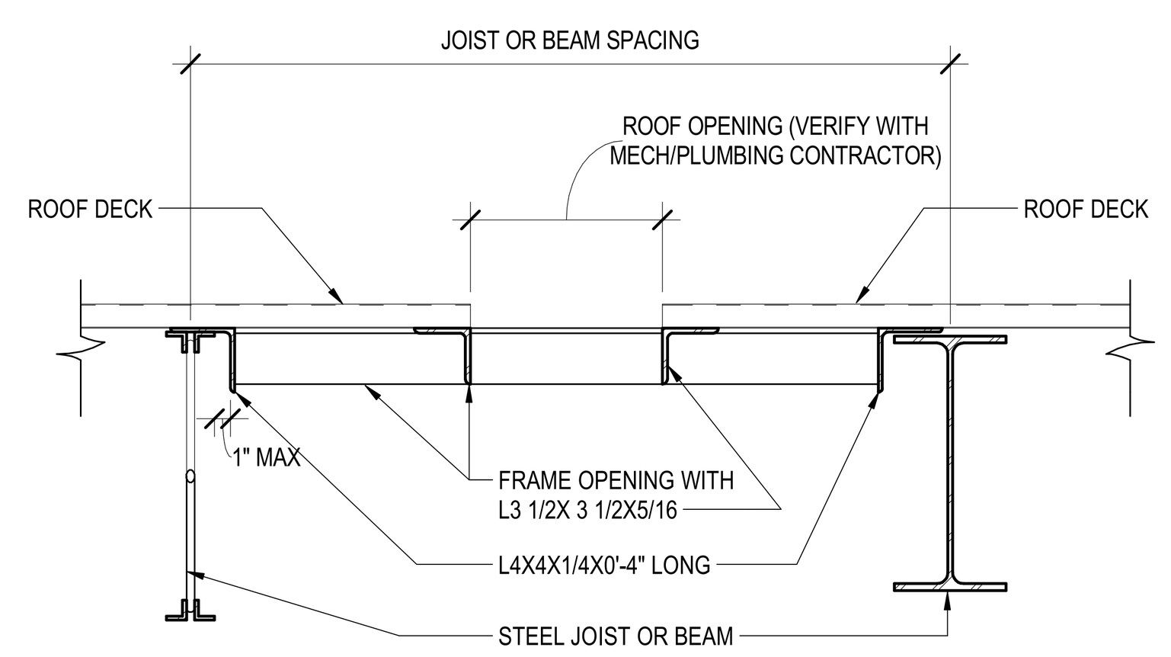


5 S810 LINTEL BEARING DETAIL
SCALE: 1/2" = 1'-0"



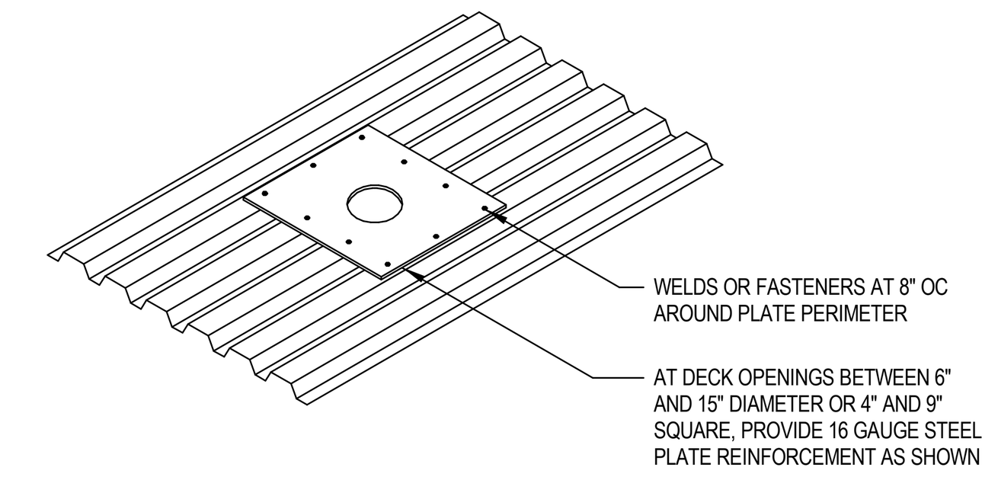
FAST DECK TO SUPPORTING MEMBERS USING FASTENING METHOD INDICATED ON DRAWINGS AND ACCORDING TO THE FOLLOWING REQUIREMENTS:
a. WELDING (DEFAULT UNO): ALL WEDS ARE TO BE 5/8" DIA PUDDLE WELDS.
b. POWDER-ACTUATED FASTENERS: HILTI X-HSN 24 AND X-ENP 19L15, RAMSET 265D, OR APPROVED EQUAL (SUBMIT MANUFACTURER'S LITERATURE FOR APPROVAL ON EQUAL PRIOR TO USING POWDER-ACTUATED PRODUCT).
c. PNEUMATICALLY-DRIVEN FASTENERS: PNUETEK PINS OR EQUAL (SUBMIT MANUFACTURER'S LITERATURE FOR APPROVAL ON EQUAL PRIOR TO USING PNEUMATICALLY-DRIVEN PRODUCT).

6 S810 METAL DECK FASTENING DETAIL
SCALE: 12" = 1'-0"



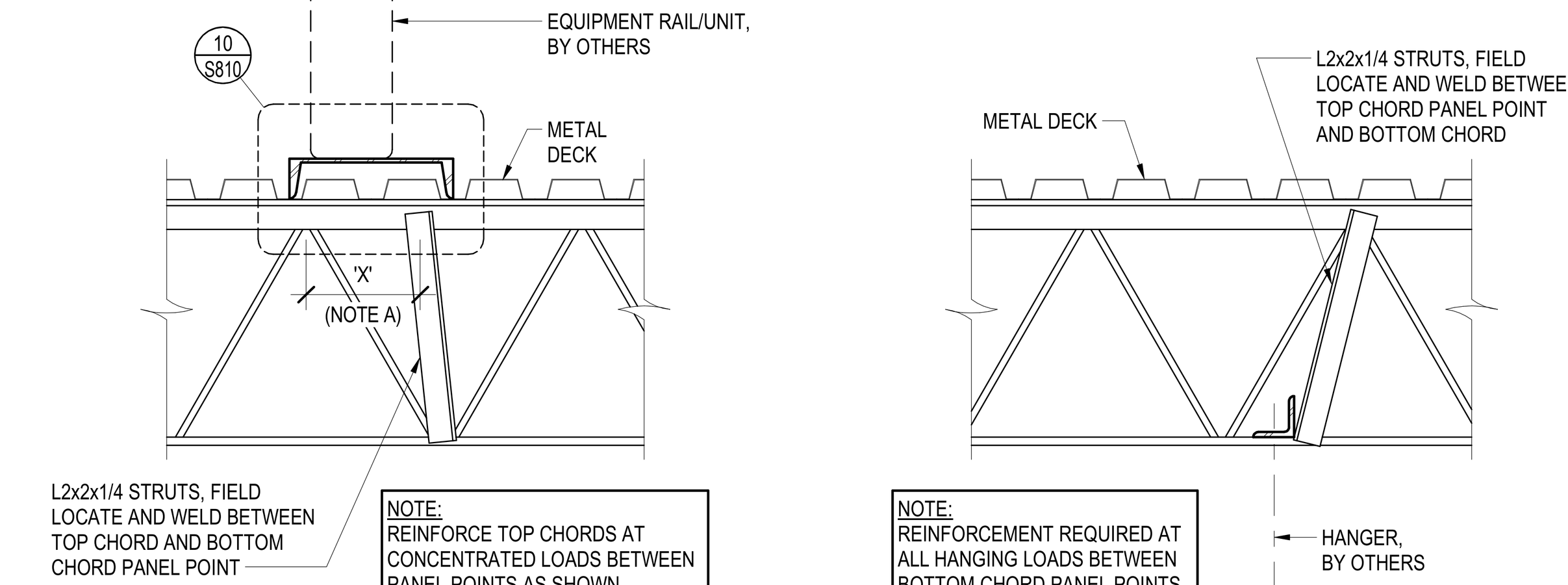
NOTE:
GC TO VERIFY SIZE, SHAPE AND LOCATION OF ALL ROOF OPENINGS WITH APPROPRIATE TRADES PROVIDING TYPICAL FRAME AT ALL OPENINGS:
1. LARGER THAN 13"Ø OR 9" SQUARE OR
2. SUPPORTING IN EXCESS OF 60LBS EQUIPMENT LOADS

7 S810 TYPICAL FRAMING AT ROOF OPENINGS
SCALE: 1" = 1'-0"



NOTE:
A) NO PLATE REINFORCEMENT REQUIRED AT DECK OPENINGS SMALLER THAN 6" DIAMETER OR 4" SQUARE.
B) FOR DECK OPENINGS LARGER THAN 13" DIAMETER OR 9" SQUARE, PROVIDE STEEL FRAME PER TYPICAL FRAMING AT ROOF OPENINGS DETAIL.

8 S810 TYPICAL ROOF DECK OPENING
SCALE: 1" = 1'-0"



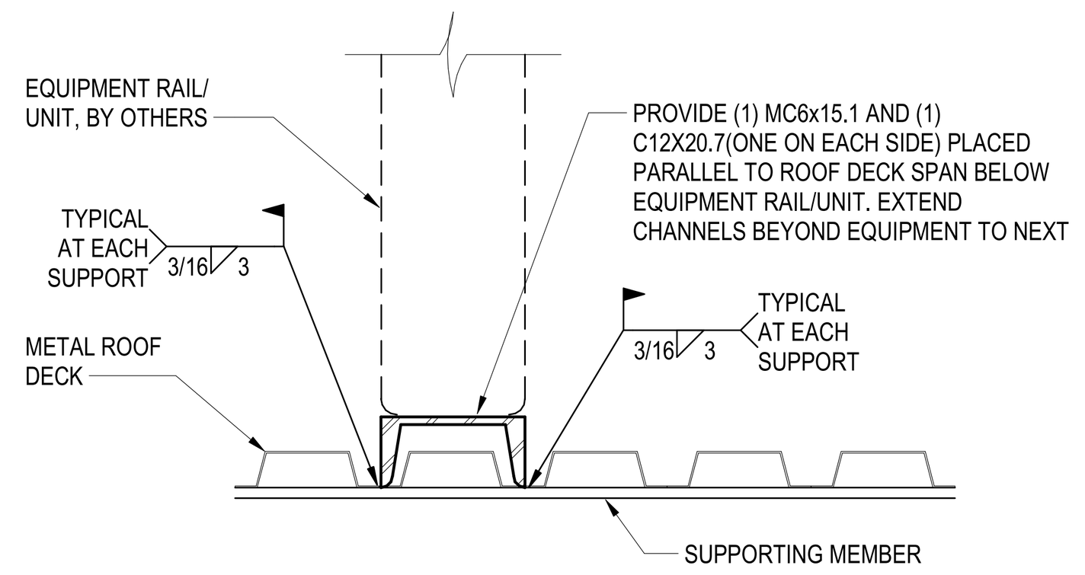
NOTE:
REINFORCE TOP CHORDS AT CONCENTRATED LOADS BETWEEN PANEL POINTS AS SHOWN.

NOTE:
REINFORCEMENT REQUIRED AT ALL HANGING LOADS BETWEEN BOTTOM CHORD PANEL POINTS AND AS NOTED ON PLAN.

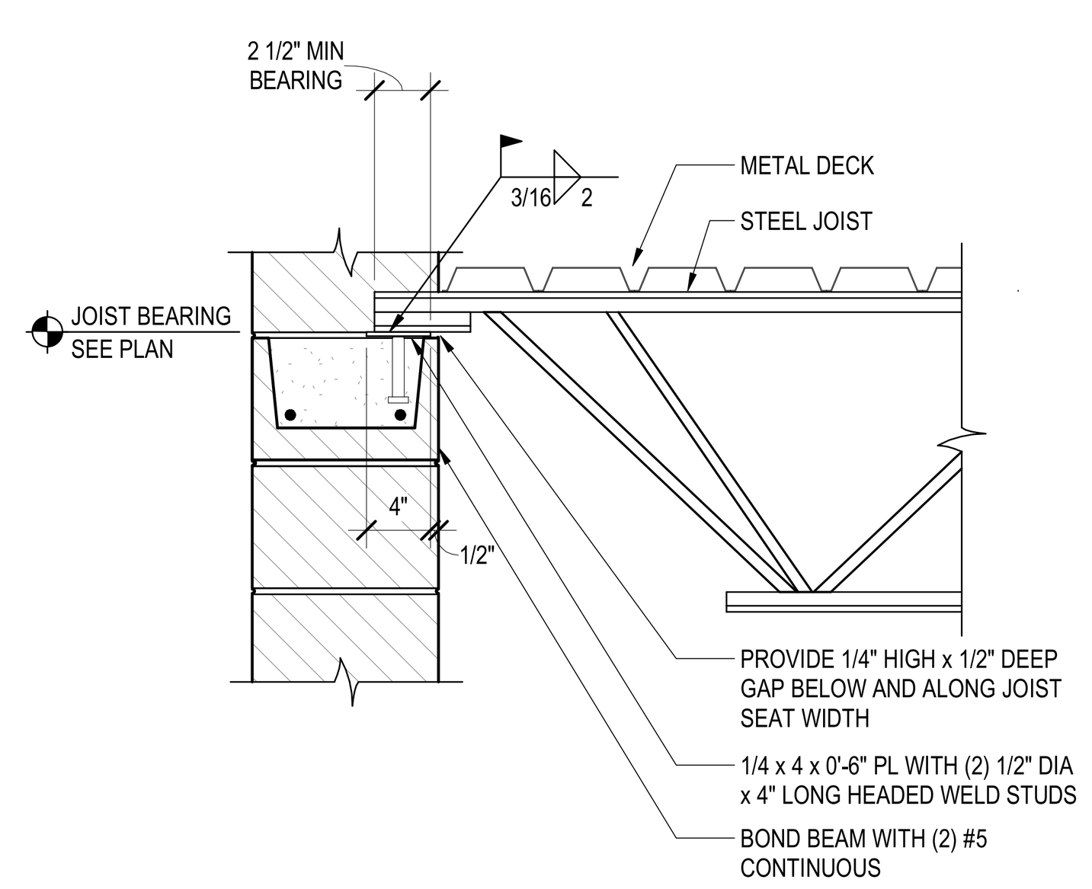
NOTE A:
AS LONG AS CONCENTRATED LOAD ALONG JOIST TOP CHORD IS AT OR WITHIN 2" OF JOIST PANEL POINT, L2x2 IS NOT REQUIRED

NOTE:
PRIOR TO INSTALLATION, VERIFY LOADS WITH ENGINEER IF ACTUAL DIFFER FROM THOSE POSTED ON DRAWINGS.

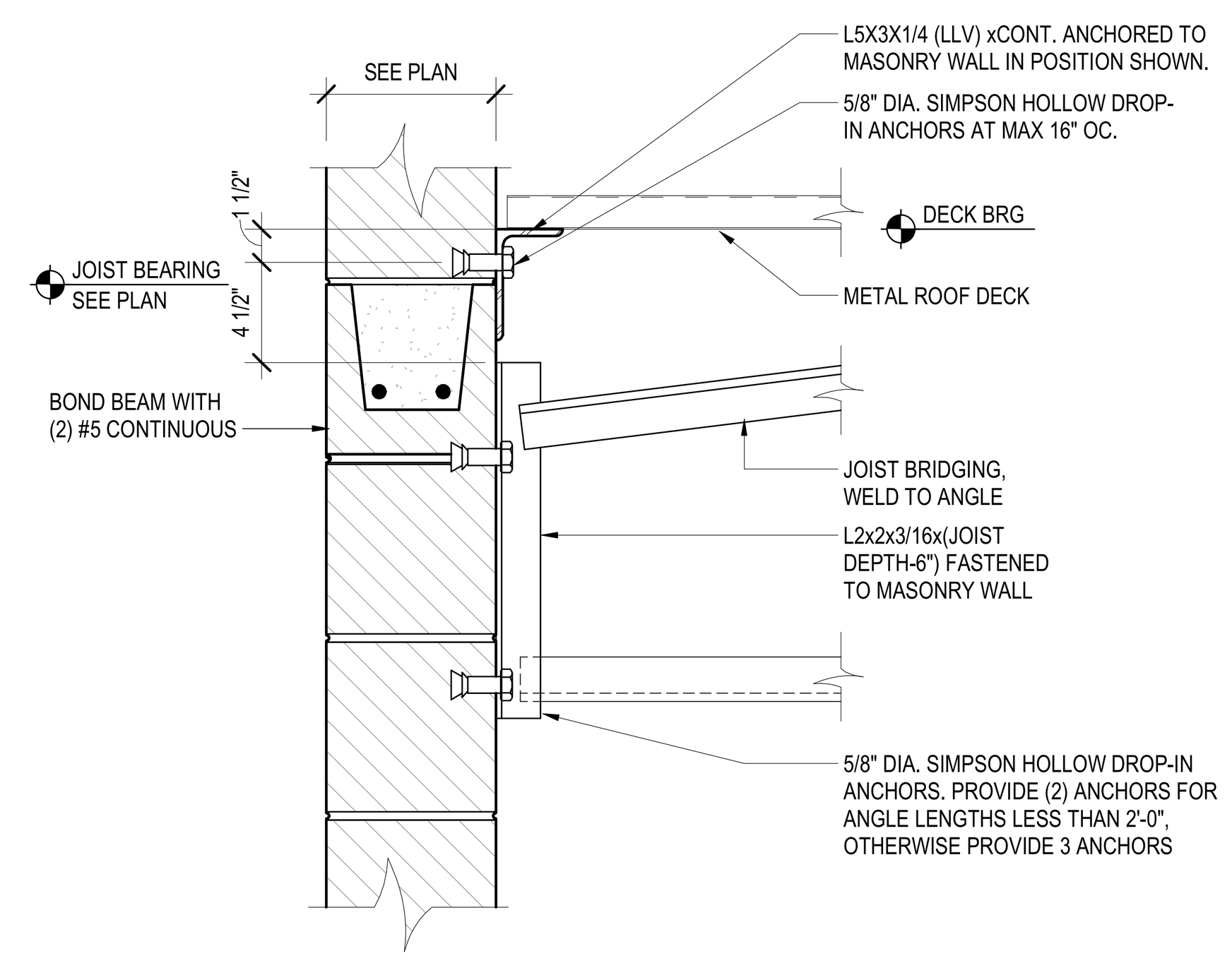
9 S810 CONCENTRATED LOAD AT JOIST
SCALE: 1" = 1'-0"



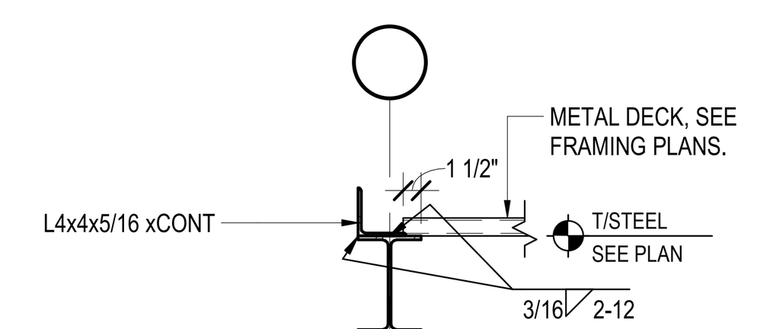
10 S810 EQUIPMENT RAIL SUPPORT
SCALE: 1 1/2" = 1'-0"



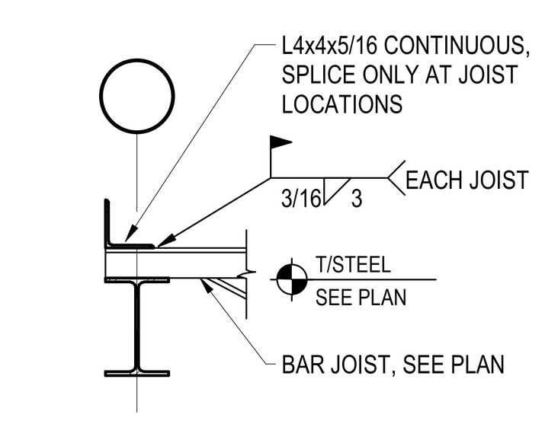
11 S810 JOIST ON MASONRY WALL (1 SIDE)
SCALE: 1" = 1'-0"



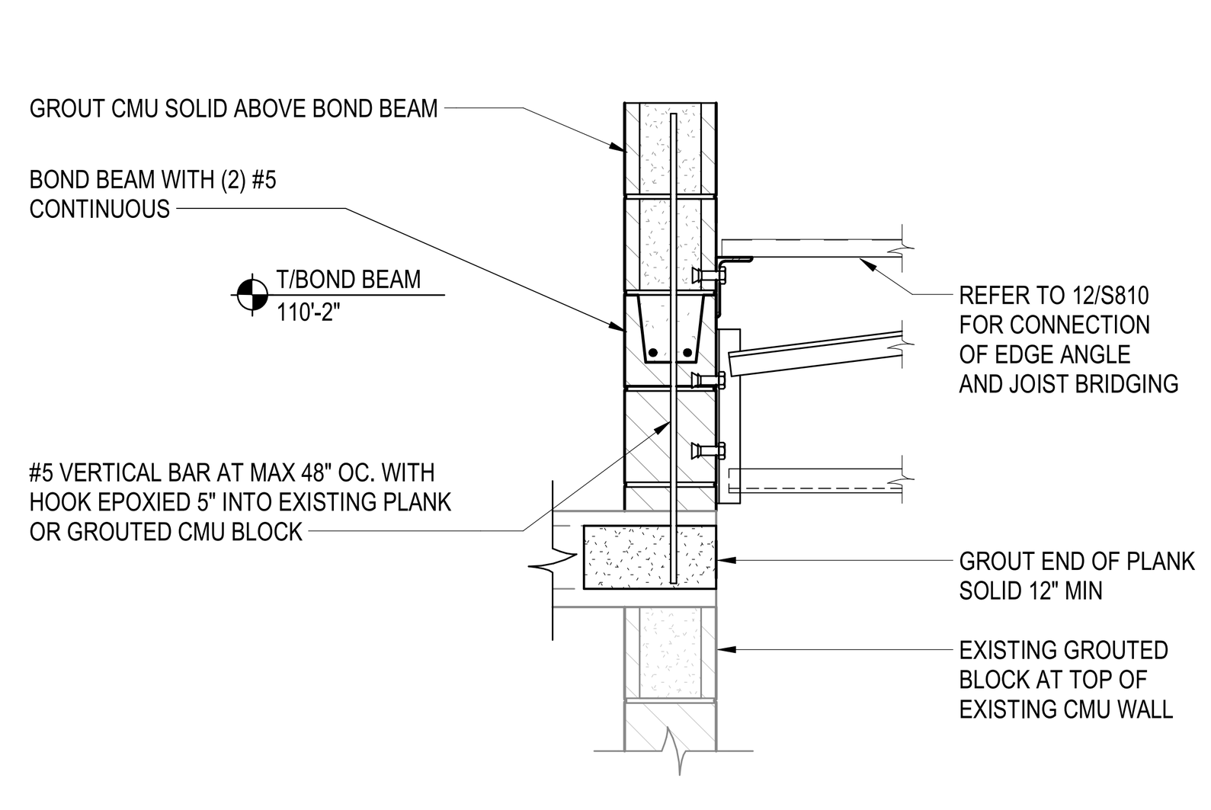
12 S810 TYPICAL END WALL DETAIL
SCALE: 1 1/2" = 1'-0"



13 S810 ROOF EDGE DETAIL
SCALE: 3/4" = 1'-0"

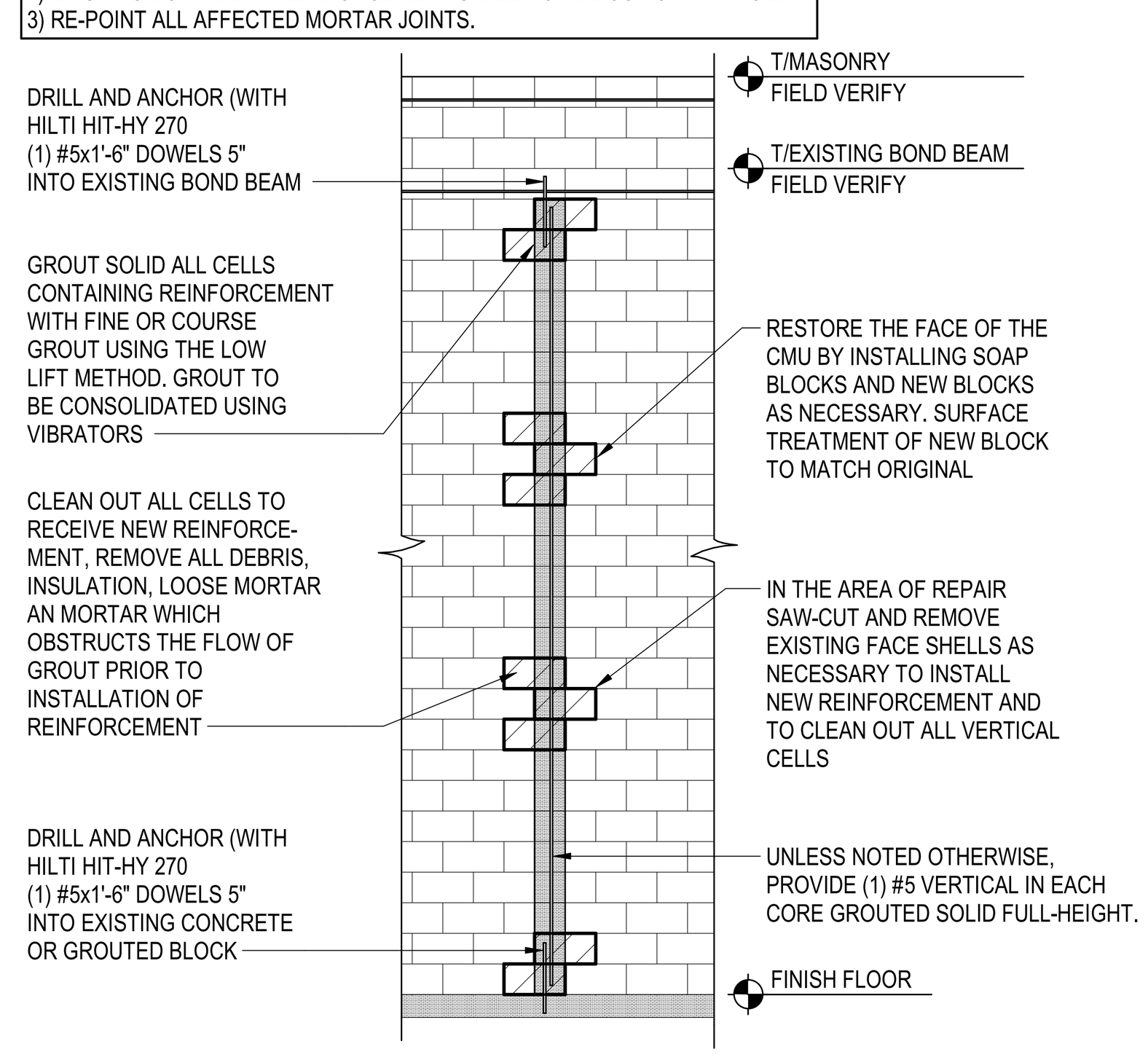


14 S810 ROOF EDGE DETAIL
SCALE: 3/4" = 1'-0"



15 S810 SIDELAP AT OVERBUILD
SCALE: 3/4" = 1'-0"

CONTRACTOR NOTES:
1) SHORE EXISTING STRUCTURE AS REQUIRED.
2) EXISTING BOND BEAM REINFORCEMENT SHALL NOT BE CUT OR DAMAGED
3) RE-POINT ALL AFFECTED MORTAR JOINTS.



16 S810 INSTALLATION OF NEW REINFORCEMENT IN EXISTING CMU WALL
SCALE: 1/4" = 1'-0"

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4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

REVISIONS:

FRAMING DETAILS

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: S810

LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYM.	ABBR.	IDENTIFICATION	SYM.	ABBR.	IDENTIFICATION
PIPING ACCESSORIES					
	CO	CLEAN OUT			UNION
	WCO	WALL CLEAN OUT			THERMOMETER
	FCO	FLOOR CLEAN OUT (FLUSH)			PRESSURE GAUGE
	BFP	BACKFLOW PREVENTER		HB	HOSE BIBB
	PRV	PRESSURE REDUCING VALVE		RD / OF	ROOF DRAIN / OVERFLOW DRAIN
		SHUTOFF VALVE		DSN	DOWN SPOUT NOZZLE
		BALANCE VALVE		FD	FLOOR DRAIN
		CHECK VALVE		HD	HUB DRAIN
	WHA	WATER HAMMER ARRESTOR		SD	SITE DRAIN
		TEST CONNECTION	(X)		FIXTURE UNIT
		PIPING CAP			
PIPING					
	CW	COLD HARD WATER PIPING	— P —	P	PROCESS DRAIN PIPING
— S —	CWS	COLD SOFT WATER PIPING	— LS —	LS	LOW STRENGTH PROCESS DRAIN PIPING
	HW	HOT WATER PIPING	— HS —	HS	HIGH STRENGTH PROCESS DRAIN PIPING
	HWR	HOT WATER RETURN PIPING	— ST —	ST	STORM / CONDUCTOR PIPING
— 140S —	140 HWS	140° HOT WATER PIPING	— OF —	OF	STORM / CONDUCTOR PIPING - OVERFLOW
— 140R —	140 HWR	140° HOT WATER RETURN PIPING		V	VENT PIPING
- HP CW -	HP CW	HIGH PRESSURE COLD WATER SUPPLY	— AW —	AW	ACID WASTE PIPING
- HP HW -	HP HW	HIGH PRESSURE HOT WATER SUPPLY	— AV —	AV	ACID VENT PIPING
-HP HWR-	HP HWR	HIGH PRESSURE HOT WATER RETURN	— CLW —	CLW	CLEARWATER WASTE PIPING
— NP —	NP	NON-POTABLE WATER PIPING	— CLV —	CLV	CLEARWATER VENT PIPING
-NP HW-	NP HW	NON-POTABLE HOT WATER	— G —	G	GAS PIPING - NATURAL
-NP HWR-	NP HWR	NON-POTABLE HOT WATER RETURN	— A —	AIR	AIR PIPING - COMPRESSED
— TW —	TW	TEMPERED WATER PIPING	— HS —	HS	HYDRAULIC SUPPLY PIPING
— SAN —	SAN	SANITARY DRAIN PIPING	— HR —	HR	HYDRAULIC RETURN PIPING
— GW —	GW	GREASE WASTE PIPING	— NIT —	NIT	NITROGEN PIPING
— ST —	ST	STORM DRAIN PIPING	— CO2 —	CO2	CARBON DIOXIDE PIPING
MISCELLANEOUS					
	EL	ELEVATION		C.T.E.	CONNECT TO EXISTING
		SECTION NUMBER / SHEET NUMBER			CALLOUT OR DETAIL NUMBER / SHEET NUMBER
ABBREVIATIONS					
				NIC	NOT IN CONTRACT
	AFF	ABOVE FINISHED FLOOR		NTS	NOT TO SCALE
	AFG	ABOVE FINISHED GRADE		OC	ON CENTER
	BFF	BELOW FINISHED FLOOR		RI	ROUGH IN
	EC	ELECTRICAL CONTRACTOR		BJ	BETWEEN JOISTS
	FPC	FIRE PROTECTION CONTRACTOR		TJ	THRU JOISTS
	GC	GENERAL CONTRACTOR / CONSTRUCTION MANAGER		TTS	TIGHT TO STRUCTURE
	PC	PLUMBING CONTRACTOR		TYP	TYPICAL
	MC	MECHANICAL CONTRACTOR		VTR	VENT THRU ROOF
	IE	INVERT ELEVATION		WP	WEATHER PROOF
FIRE RATED WALLS					
		FIRE - 1 HOUR			FIRE - 3 HOUR
		FIRE - 2 HOUR			FIRE - 4 HOUR

GENERAL INSTALLATION NOTES

1. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
2. PLUMBING INSTALLATION SHALL BE INSTALLED PER WISCONSIN UNIFORM PLUMBING CODE AND PER LOCAL PLUMBING CODE FOR ITEMS NOT NOTED.
3. FIELD VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND SIZE AT POINT OF CONNECTION AND THAT NEW PIPE ROUTE IS CLEAR OF UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO INSTALLATION OF ANY UNDERGROUND PIPING. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. ALL PIPING IS TO BE CONCEALED. IF BUILDING CONSTRUCTION DOES NOT PERMIT CONCEALING PIPING, LOCATIONS AND ROUTING ARE TO BE APPROVED BY ARCHITECT/OWNER PRIOR TO INSTALLATION.
5. ROUTE ALL PIPING IN COORDINATION WITH OTHER TRADES.
6. FLOOR AND WALL CLEANOUT LOCATIONS NOT PERMITTED TO BE MOVED WITHOUT APPROVAL OF ARCHITECT/ENGINEER.
7. SEE ARCHITECTURAL SHEETS FOR ADA RELATED INSTALLATION DETAILS.
8. SEE STRUCTURAL FOOTING, TRUSS AND JOIST ELEVATIONS AND DETAILS.
9. SEE MECHANICAL PLANS FOR AREAS THAT ARE USED AS A RETURN AIR PLENUM. PROVIDE PLENUM RATED PIPE OR PIPE WRAP AS PER PROJECT'S PLUMBING SPECIFICATIONS.
10. SEE MECHANICAL PLANS AND HVAC CONTRACTOR FOR FINAL LOCATION OF HVAC EQUIPMENT IN MECHANICAL / BOILER ROOMS TO COORDINATE FINAL LOCATIONS OF FLOOR / HUB / SITE DRAINS PRIOR TO INSTALLATION.
11. SEE PLUMBING ISOMETRICS SHEETS FOR PIPE SIZE AND LOAD INFORMATION NOT SHOWN ON FLOOR PLANS.
12. SLOPE ALL SANITARY AND STORM PIPING 3" AND LARGER AT 1/8"/FT UNLESS NOTED OTHERWISE.
13. SLOPE ALL SANITARY AND STORM PIPING 2" AND SMALLER AT 1/4"/FT UNLESS NOTED OTHERWISE.
14. INSTALL CLEANOUTS AT STACKS WHICH PENETRATE THE LOWEST FLOOR LEVEL 30" A.F.F. UNLESS NOTED OTHERWISE.
15. INSTALL BALL VALVES TO ISOLATE HOT AND COLD WATER BRANCH PIPING FROM HOT AND COLD WATER MAINS FOR EACH PLUMBING FIXTURES OR ROOMS WITH MULTIPLE PLUMBING FIXTURES.
16. INSTALL EXTERIOR HOSE BIBBS AT 18" A.F.F. UNLESS NOTED OTHERWISE.
17. INSTALL INTERIOR HOSE BIBBS AT 24" A.F.F. UNLESS NOTED OTHERWISE.
18. INSTALL DOWN SPOUT NOZZLES AT 18" A.F.F. UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES

1. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
2. ALL PIPING AND FIXTURES SHOWN HEAVY DASHED ARE TO BE DEMOLISHED.
3. ALL PIPING AND FIXTURES SHOWN LIGHTER ARE EXISTING TO REMAIN.
4. COORDINATE DEMOLITION OF EXISTING PIPING TO BE REMOVED WITH GENERAL CONTRACTOR.
5. SOME EXISTING PLANS OF UNDERGROUND PIPING EXIST. PIPING SHOWN WITHOUT EXISTINGS PLANS ARE THE ENGINEER'S ESTIMATION OF ROUTING. FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD CONDITIONS.
6. FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD CONDITIONS.
7. WHERE EXISTING PIPING IS SHOWN TO BE REMOVED, CAP BRANCH PIPE IF NOT BEING USED FOR NEW CONSTRUCTION.

DESIGN PROFESSIONAL

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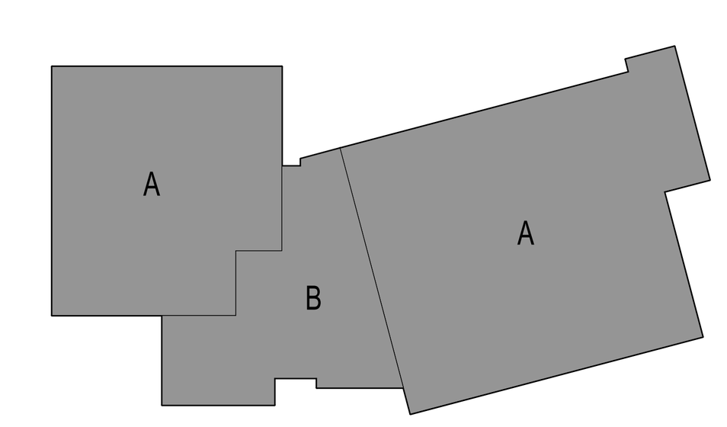

KEY PLAN

SHEET INDEX - PLUMBING	
SHEET NUMBER	SHEET NAME
P000	LEGEND AND GENERAL NOTES
P100	FIRST FLOOR DEMOLITION PLAN
P101	LOWER LEVEL DEMOLITION PLAN
P200	FIRST FLOOR PLAN
P201	LOWER LEVEL PLAN
P202	FOUNDATION PLAN AND LOWER LEVEL PLAN
P220	ROOF PLAN
P300	SANITARY ISOMETRICS
P301	WATER ISOMETRIC
P302	STORM ISOMETRIC
P400	DETAILS
P500	SCHEDULES

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LEGEND AND GENERAL NOTES

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BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: P000

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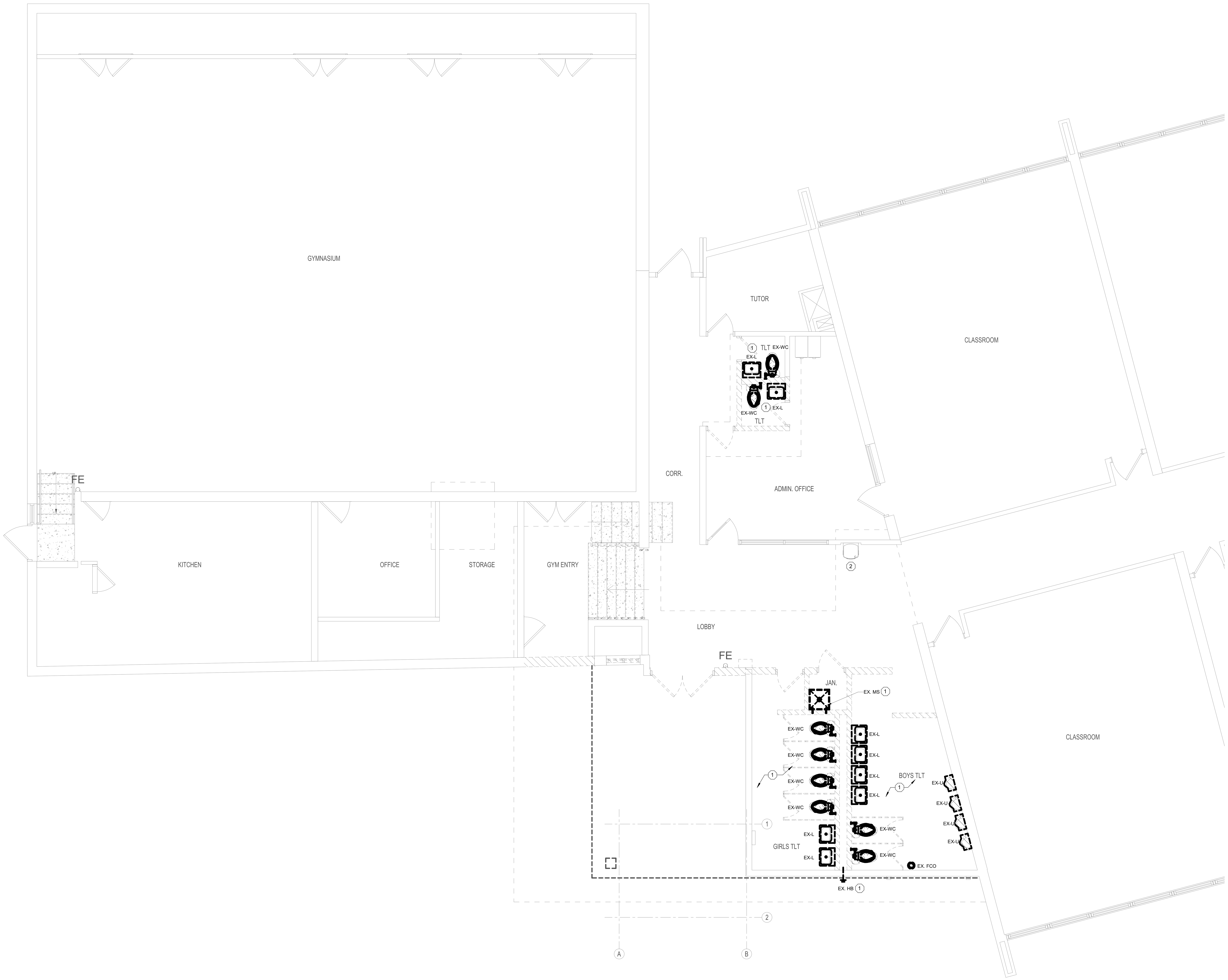
DEMOLITION NOTES

NOT ALL KEYNOTES APPEAR ON THIS SHEET

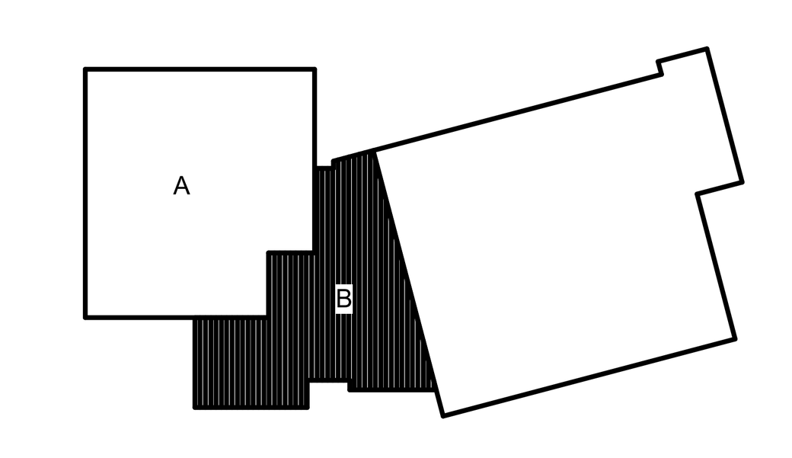
1. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE(S) / EQUIPMENT IN THIS AREA. PLUG / CAP EXISTING PLUMBING SUPPLY PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. WATER PIPING SHALL BE CAPPED BACK AT ACTIVE MAIN.
2. EXISTING PLUMBING FIXTURE(S) / EQUIPMENT IN THIS AREA SHALL REMAIN.
3. REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND PLUG / CAP. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING
4. REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND TEMPORARY PLUG / CAP FOR REUSE DURING NEW CONSTRUCTION PHASE.



NORTH

FIRST FLOOR DEMOLITION PLAN

1/4" = 1'-0"



KEY PLAN

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SCHOOL DISTRICT OF MILTON
CONSOLIDATED - ADDITION & RENOVATION

4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

REVISIONS:

FIRST FLOOR DEMOLITION PLAN

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO:

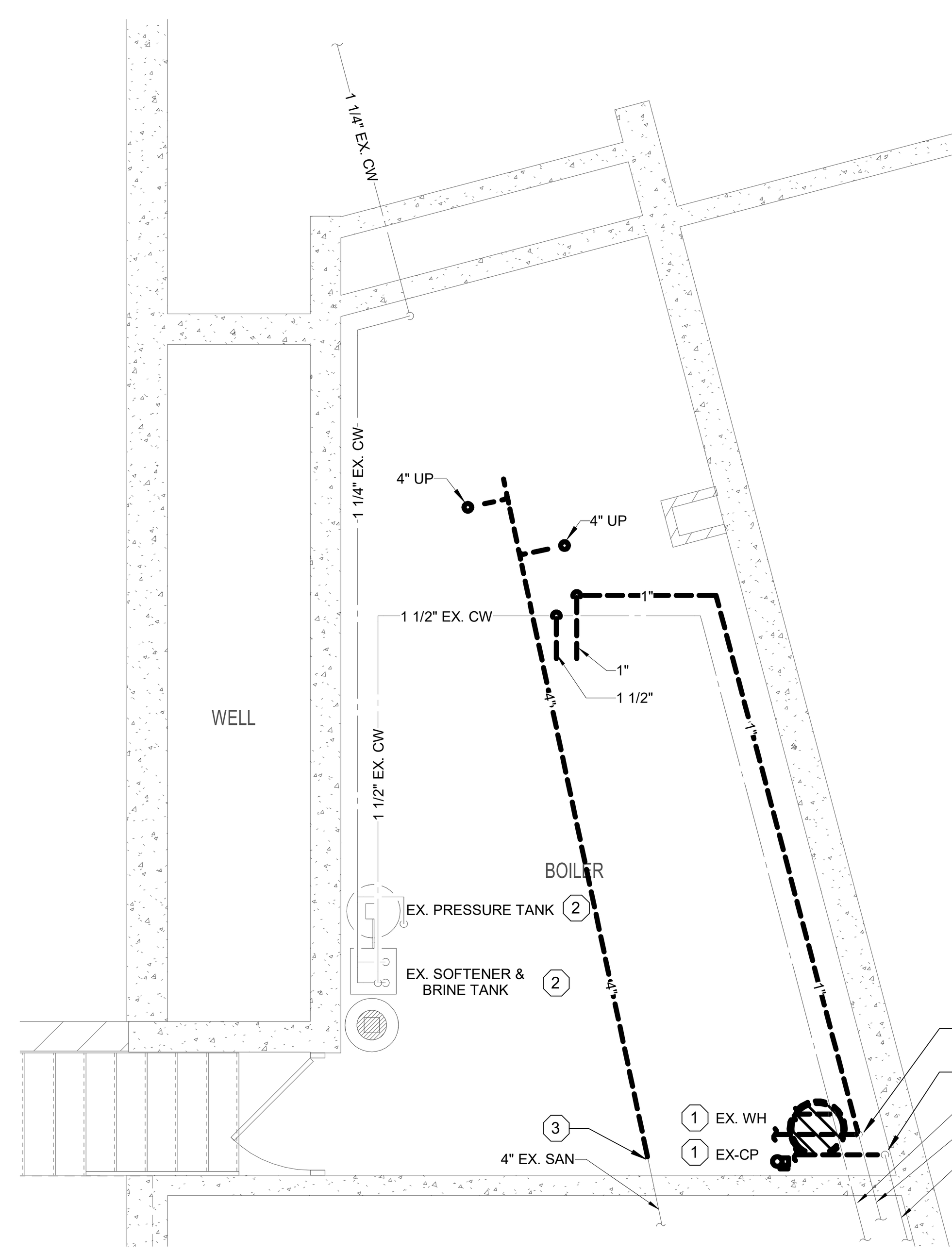
P100

DRAWN BY: Author 9/13/2019 6:57:50 AM

DEMOLITION NOTES

NOT ALL KEYNOTES APPEAR ON THIS SHEET

1. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE(S) / EQUIPMENT IN THIS AREA. PLUG / CAP EXISTING PLUMBING SUPPLY PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. WATER PIPING SHALL BE CAPPED BACK AT ACTIVE MAIN.
2. EXISTING PLUMBING FIXTURE(S) / EQUIPMENT IN THIS AREA SHALL REMAIN.
3. REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND PLUG / CAP. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING
4. REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND TEMPORARY PLUG / CAP FOR REUSE DURING NEW CONSTRUCTION PHASE.



NORTH

LOWER LEVEL DEMOLITION PLAN

1/4" = 1'-0"

4' 0' 4' 8'

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REVISIONS:

LOWER LEVEL DEMOLITION PLAN

CONSTRUCTION DOCUMENTS

BID PACKAGE:

DATE: 09-13-19

JOB NO: 190106-06

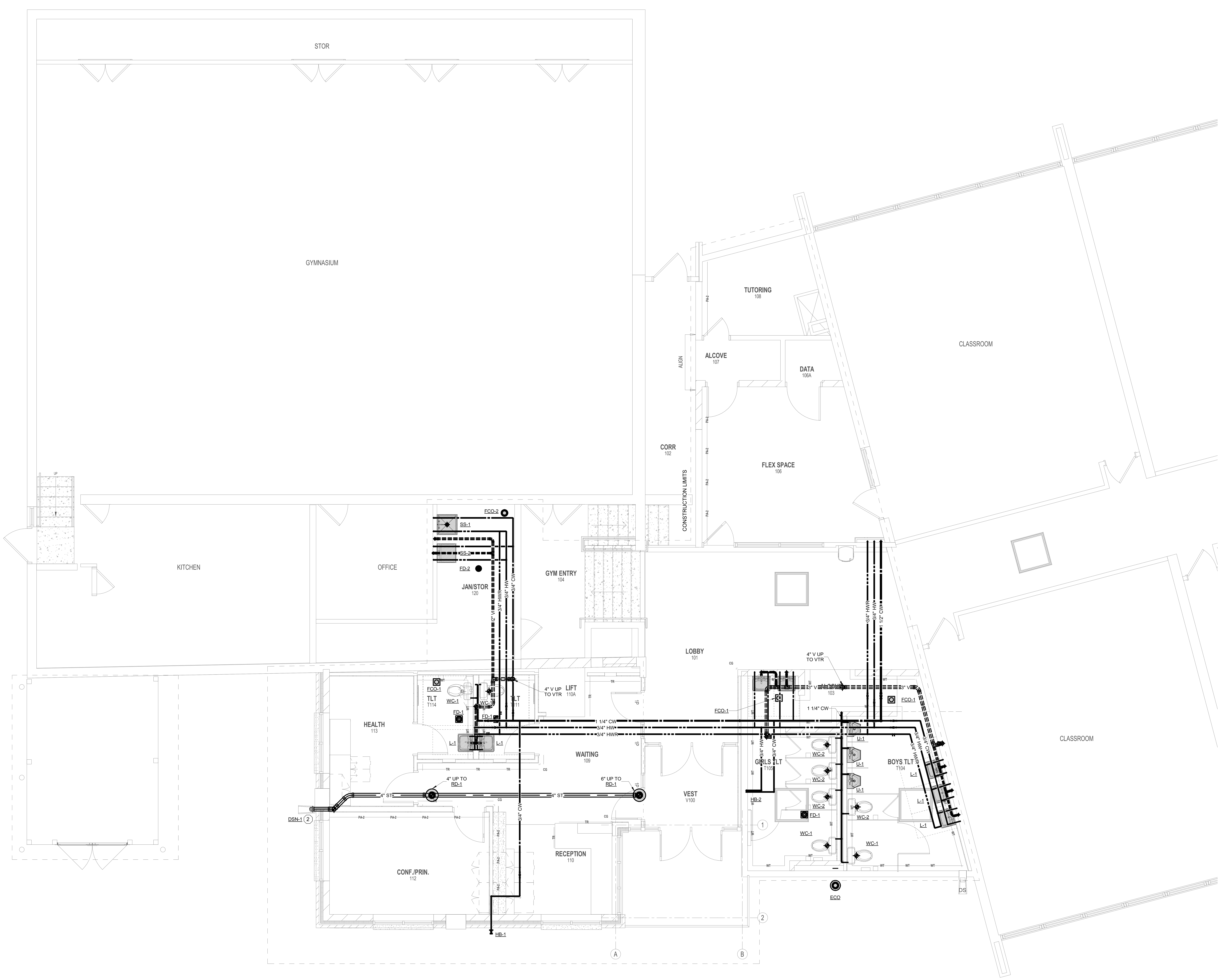
SHEET NO: P101

DRAWN BY: Author 9/13/2019 6:57:50 AM

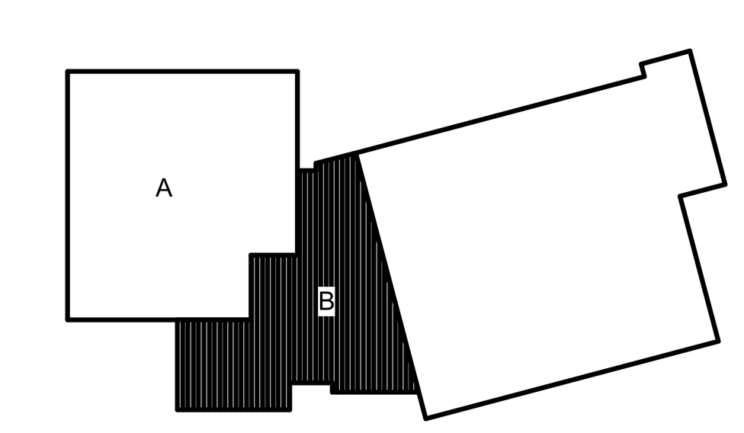
INSTALLATION NOTES

NOT ALL KEYNOTES APPEAR ON THIS SHEET

1. TERMINATE SANITARY DRAIN PIPING 5 FEET OUTSIDE OF BUILDING FOR EXTENSION TO SANITARY SEWER BY SITE UTILITY CONTRACTOR. FIELD VERIFY INVERT ELEVATIONS. SEE CIVIL SHEETS FOR MORE INFORMATION.
2. PROVIDE A SPLASH PAD TO TERMINATE STORM CONDUCTOR PIPING.



FIRST FLOOR PLAN
1/4" = 1'-0"



KEY PLAN

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CONSOLIDATED - ADDITION & RENOVATION
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REVISIONS:

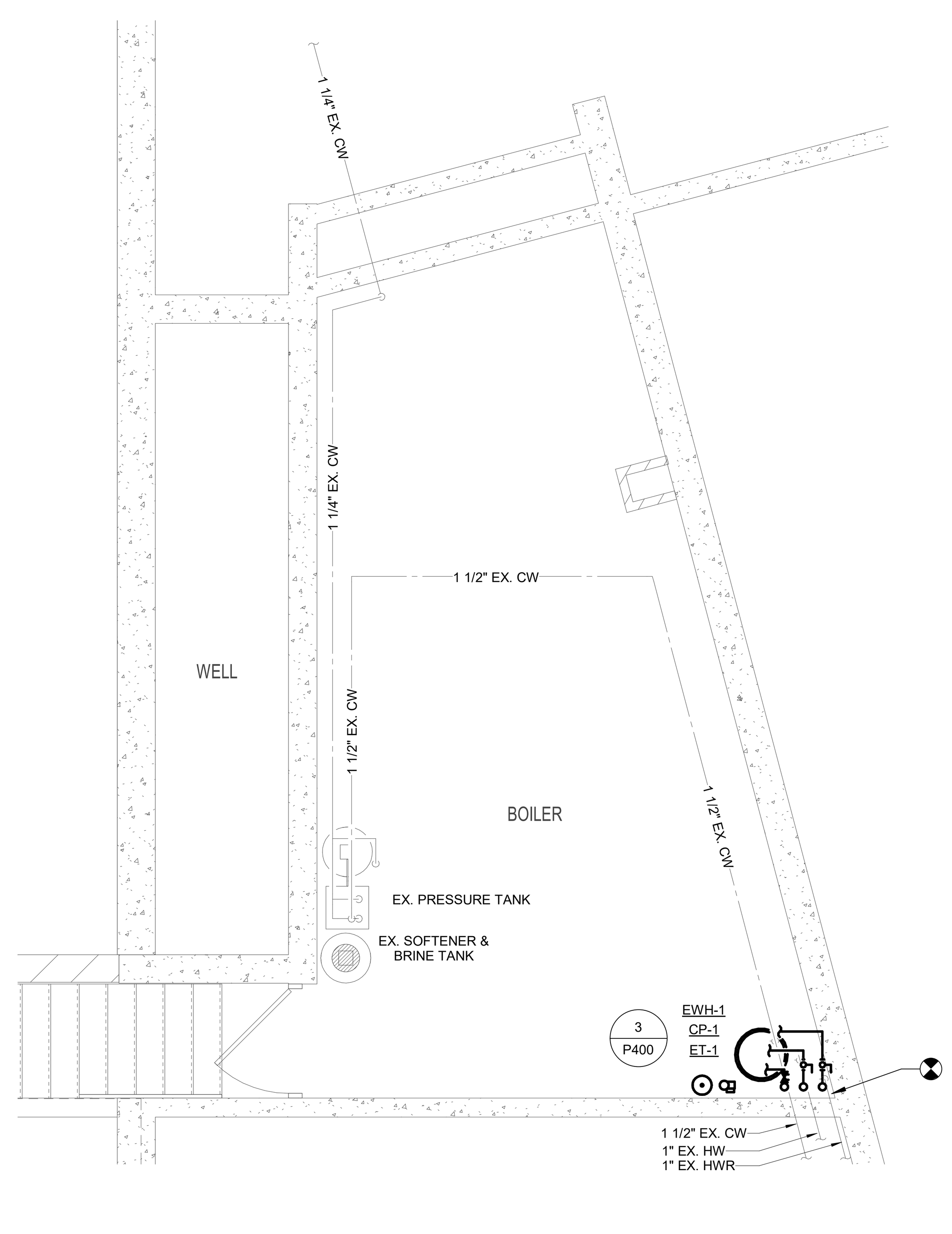
FIRST FLOOR PLAN

CONSTRUCTION DOCUMENTS	
BID PACKAGE:	
DATE:	09-13-19
JOB NO:	190106-06
SHEET NO:	P200

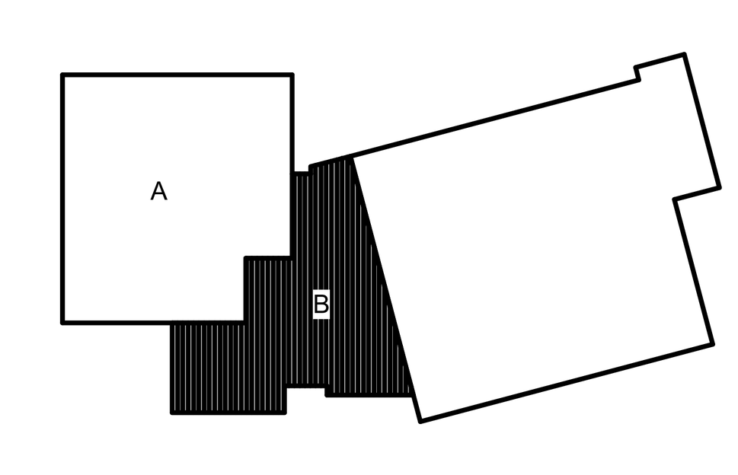
INSTALLATION NOTES

NOT ALL KEYNOTES APPEAR ON THIS SHEET

1. TERMINATE SANITARY DRAIN PIPING 5 FEET OUTSIDE OF BUILDING FOR EXTENSION TO SANITARY SEWER BY SITE UTILITY CONTRACTOR. FIELD VERIFY INVERT ELEVATIONS. SEE CIVIL SHEETS FOR MORE INFORMATION.
2. PROVIDE A SPLASH PAD TO TERMINATE STORM CONDUCTOR PIPING.



LOWER LEVEL PLAN
1/4" = 1'-0"



KEY PLAN

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REVISIONS:

LOWER LEVEL PLAN

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO:
P201

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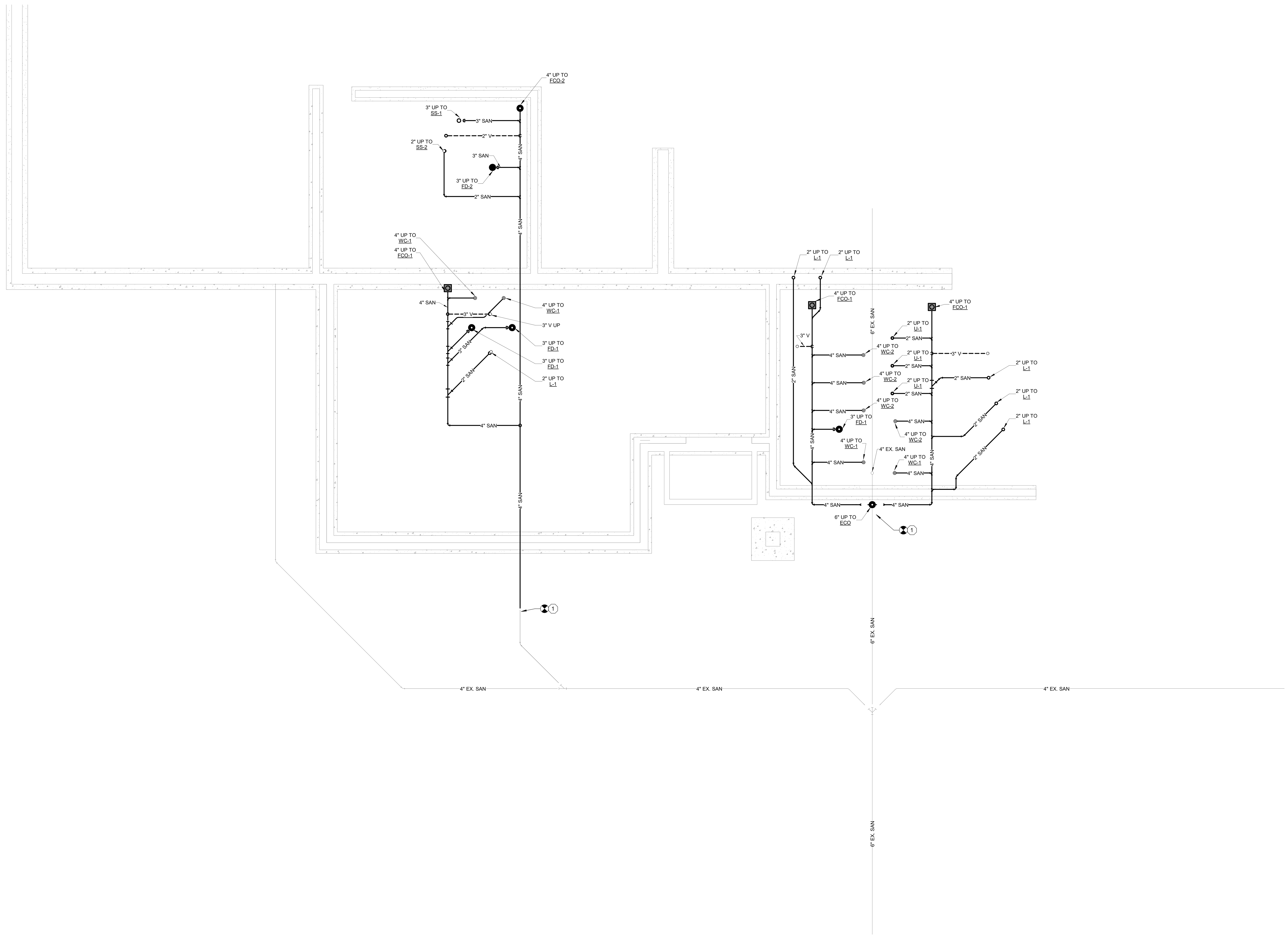
INSTALLATION NOTES

NOT ALL KEYNOTES APPEAR ON THIS SHEET

1. TERMINATE SANITARY DRAIN PIPING 5 FEET OUTSIDE OF BUILDING FOR EXTENSION TO SANITARY SEWER BY SITE UTILITY CONTRACTOR. FIELD VERIFY INVERT ELEVATIONS. SEE CIVIL SHEETS FOR MORE INFORMATION.

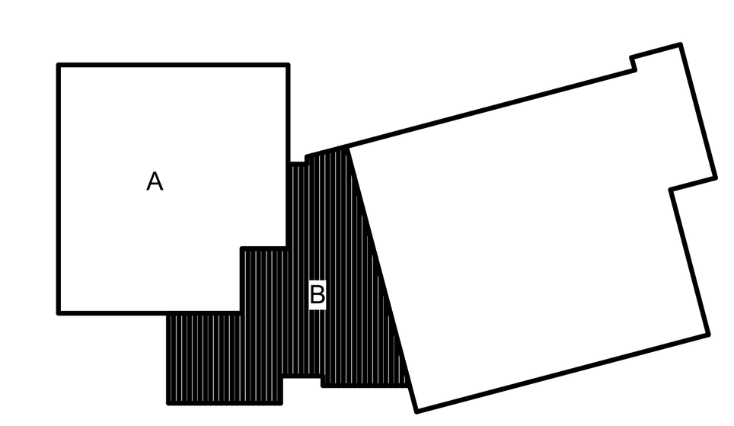
2. PROVIDE A SPLASH PAD TO TERMINATE STORM CONDUCTOR PIPING.



FOUNDATION UNDERGROUND PLAN

1/4" = 1'-0"

NORTH



KEY PLAN

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REVISIONS:

FOUNDATION PLAN AND LOWER LEVEL PLAN

CONSTRUCTION DOCUMENTS

BID PACKAGE:

DATE: 09-13-19

JOB NO: 190106-06

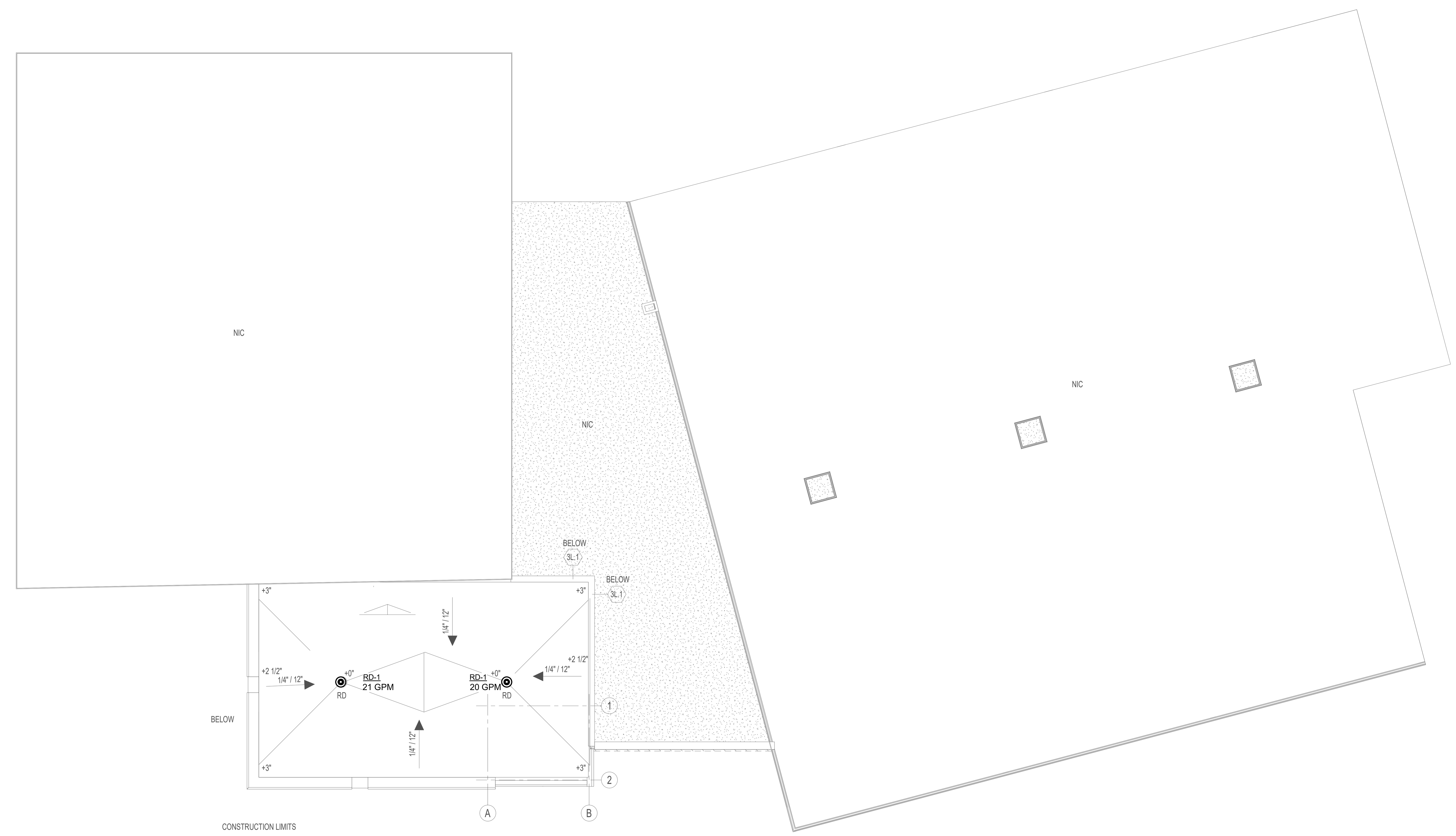
SHEET NO: P202

INSTALLATION NOTES

NOT ALL KEYNOTES APPEAR ON THIS SHEET

1. TERMINATE SANITARY DRAIN PIPING 5 FEET OUTSIDE OF BUILDING FOR EXTENSION TO SANITARY SEWER BY SITE UTILITY CONTRACTOR. FIELD VERIFY INVERT ELEVATIONS. SEE CIVIL SHEETS FOR MORE INFORMATION.

2. PROVIDE A SPLASH PAD TO TERMINATE STORM CONDUCTOR PIPING.

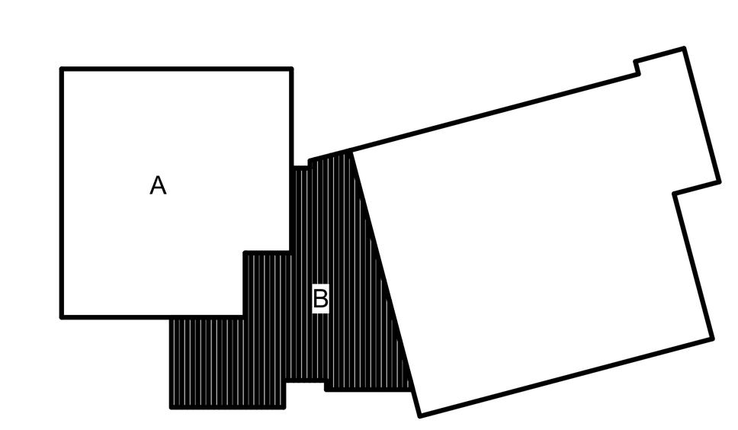


NORTH

ROOF PLAN

1/8" = 1'-0"

8' 0' 8' 16'



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REVISIONS:

ROOF PLAN

CONSTRUCTION DOCUMENTS

BID PACKAGE:

DATE: 09-13-19

JOB NO: 190106-06

SHEET NO:

P220

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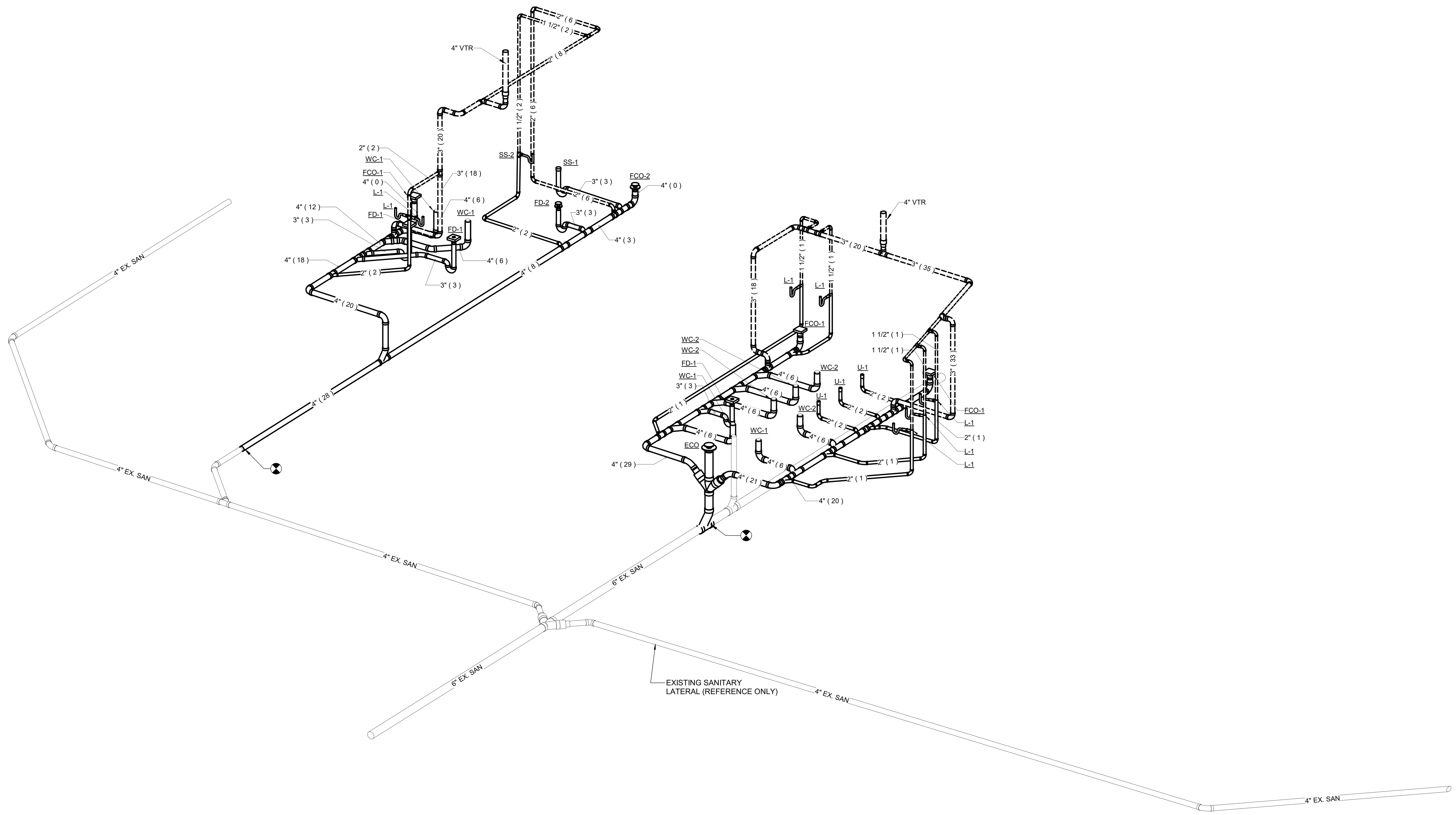
SANITARY ISOMETRIC NOTES

SEE FOUNDATION / FLOOR PLANS AND PLUMBING FIXTURE UNIT TABLE ON SHEET P0.0 FOR DRAIN/ WASTE BRANCH PIPE SIZE TO FIXTURE.

ALL VENT PIPING SERVING INDIVIDUAL WATER CLOSETS WITH CARRIERS SHALL BE 2" UNLESS OTHERWISED NOTED.

ALL VENT PIPING SERVING INDIVIDUAL FIXTURES, OTHERTHAN WATER CLOSETS WITH CARRIERS, SHALL BE 1 1/2" UNLESS OTHERWISED NOTED.



1 SANITARY ISOMETRICS

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REVISIONS:

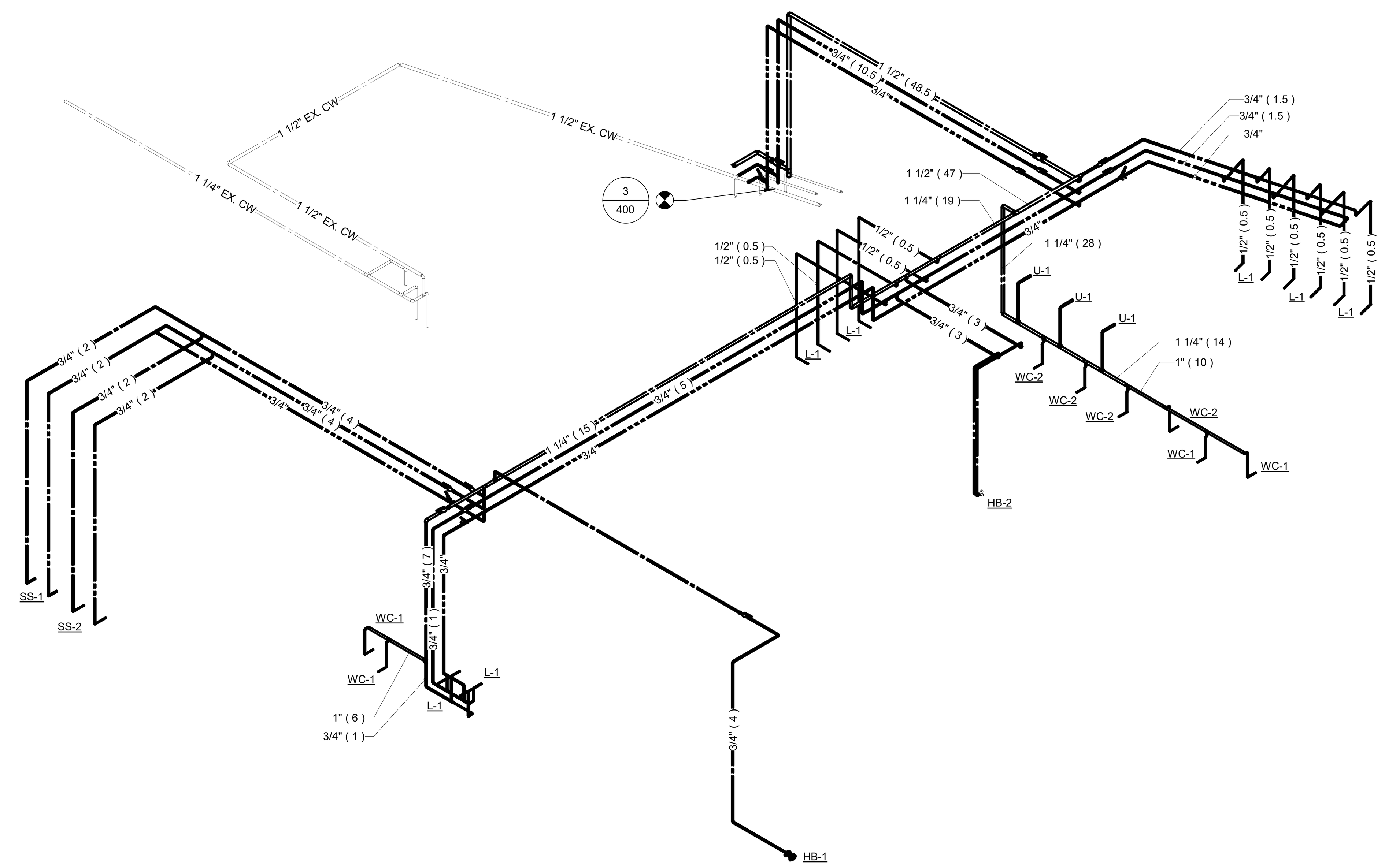
SANITARY ISOMETRICS

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: P300

WATER ISOMETRIC NOTES

SEE FOUNDATION / FLOOR PLANS AND PLUMBING FIXTURE UNIT TABLE ON SHEET P0.0 FOR WATER BRANCH PIPE SIZE TO FIXTURE.

PROVIDE WATER HAMMER ARRESTORS ON ALL INDIVIDUAL FLUSH VALVES OR BANK OF FLUSH VALVES.



1 WATER ISOMETRIC

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WATER ISOMETRIC

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO:
P301

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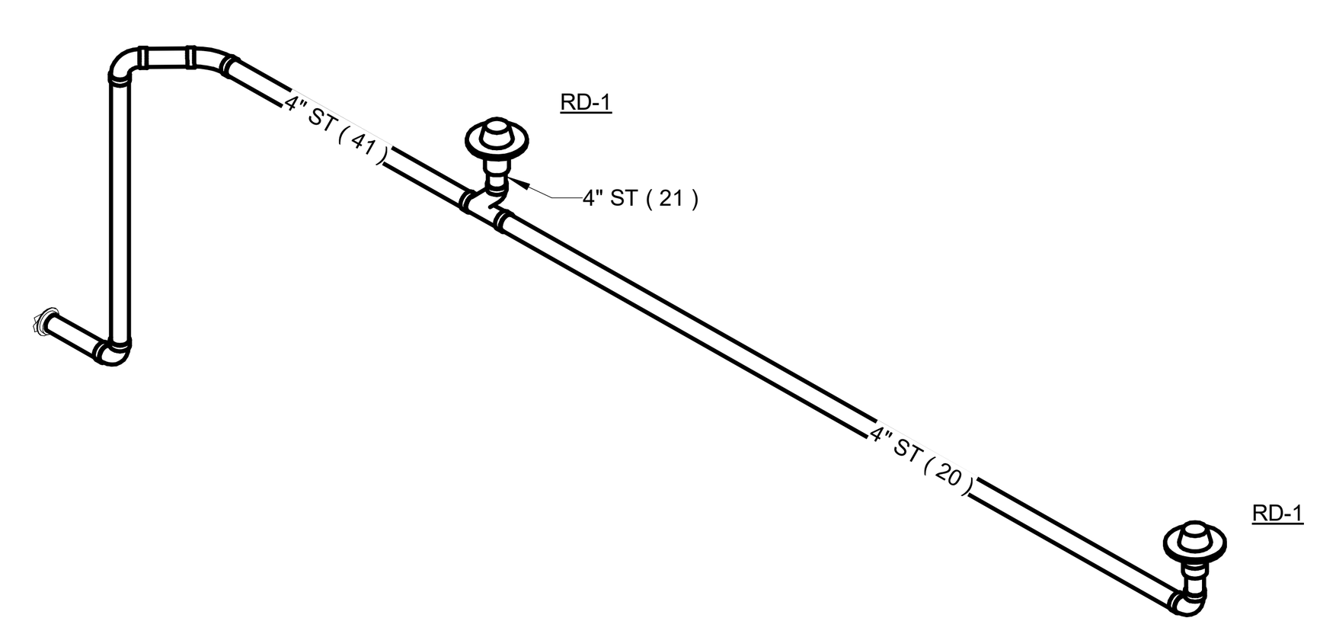
WATER ISOMETRIC NOTES

SEE FOUNDATION / FLOOR PLANS AND PLUMBING FIXTURE UNIT TABLE ON SHEET P0.0 FOR WATER BRANCH PIPE SIZE TO FIXTURE.

PROVIDE WATER HAMMER ARRESTORS ON ALL INDIVIDUAL FLUSH VALVES OR BANK OF FLUSH VALVES.



1 STORM ISOMETRIC

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REVISIONS:

STORM ISOMETRIC

CONSTRUCTION DOCUMENTS

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DATE: 09-13-19

JOB NO: 190106-06

SHEET NO: P302

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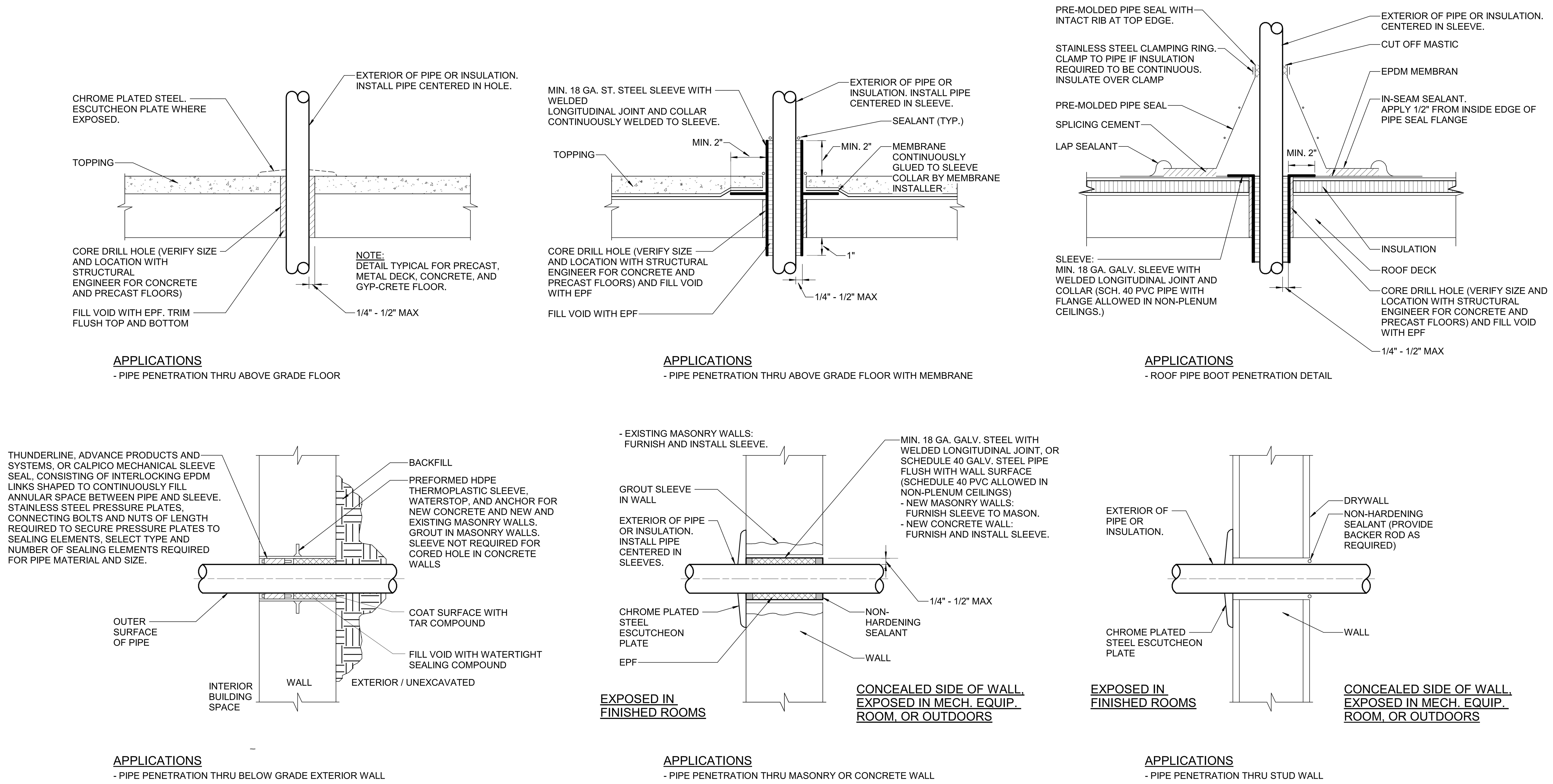
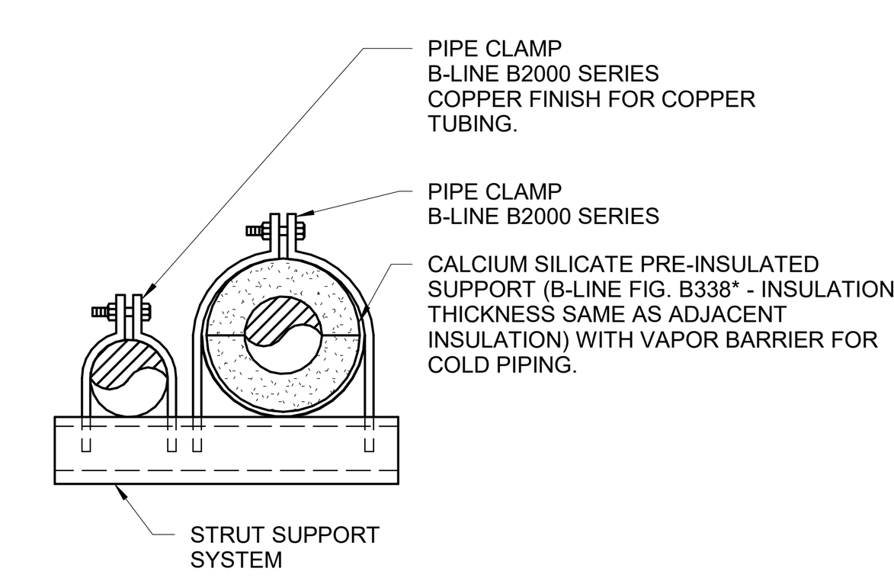
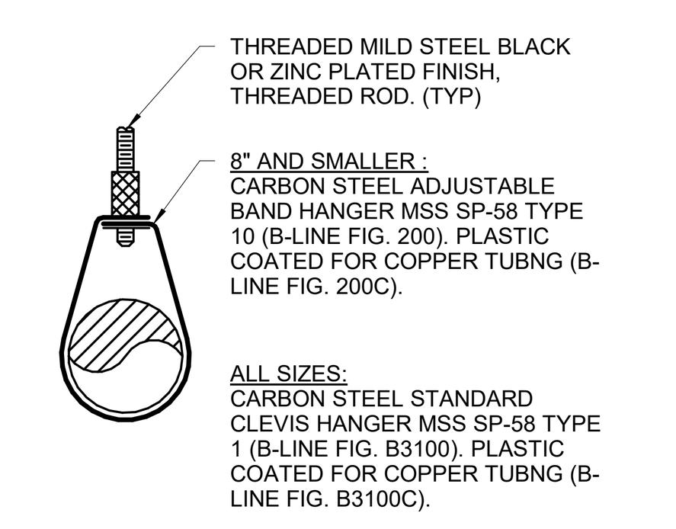


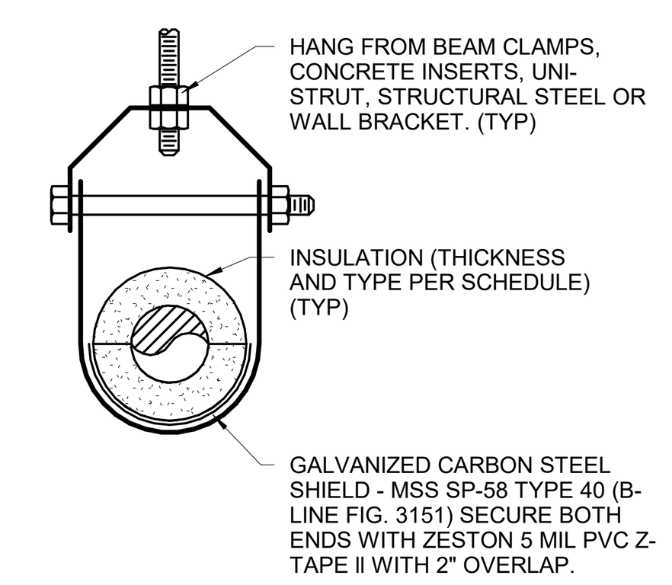
2
P400
PIPE PENETRATION DETAILS
SCALE: NTS

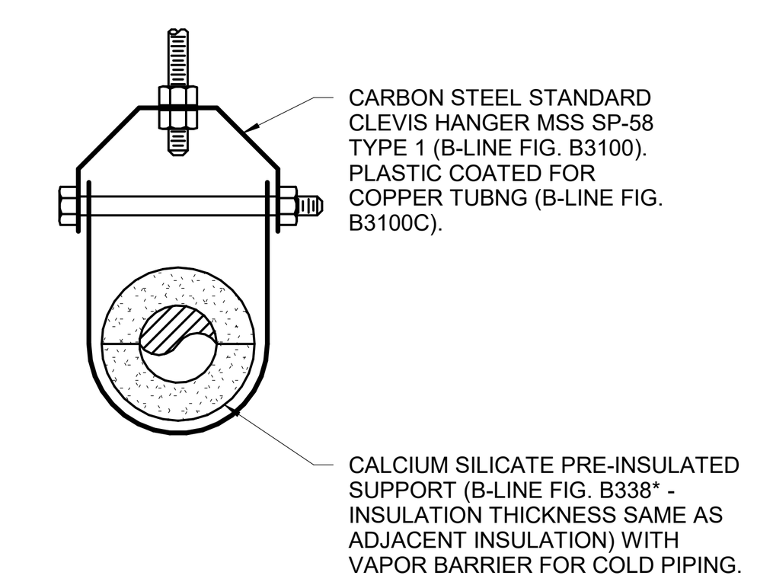


MAX. SPACING BETWEEN PIPE SUPPORTS AND MIN. HANGER ROD SIZES											
PIPE SIZE	STEEL			COPPER			PVC	CPVC	PEX	CAST IRON	MIN. ROD
	WATER	GAS	MIN. ROD	WATER	GAS	MIN. ROD					
1/4"-1/2"	7	8'	3/8"	5'	6'	3/8"	4'	3'	32"	5'	3/8"
3/4"	7'	9'	3/8"	5'	7'	3/8"	4'	3'	32"	5'	3/8"
1"	7'	9'	3/8"	6'	8'	3/8"	4'	3'	32"	5'	3/8"
1 1/4"	7'	9'	3/8"	7'	9'	3/8"	4'	4'	32"	5'	3/8"
1 1/2"	9'	12'	3/8"	8'	10'	3/8"	4'	4'	32"	5'	3/8"
2"	10'	12'	3/8"	8'	11'	3/8"	4'	4'	32"	5'	3/8"
2 1/2"	11'	12'	3/8"	9'	12'	3/8"	4'	4'	32"	5'	3/8"
3"	12'	12'	3/8"	10'	12'	3/8"	4'	4'	32"	5'	3/8"
4"	12'	12'	3/8"	12'	12'	3/8"	4'	4'	32"	5'	3/8"
6"	12'	12'	3/8"	12'	12'	3/8"	4'	4'	-	5'	3/8"
8"	12'	12'	1/2"	-	-	-	4'	4'	-	5'	3/8"
10"	12'	12'	1/2"	-	-	-	4'	4'	-	-	3/8"
12"	12'	12'	5/8"	-	-	-	4'	4'	-	-	3/8"
14"	12'	12'	5/8"	-	-	-	4'	4'	-	-	3/8"
16"	12'	12'	3/4"	-	-	-	4'	4'	-	-	3/8"
MAX VERT. (1)	15'	15'	-	10'	10'	-	10'	10'	10'		-

(1) SUPPORT AT MINIMUM EVERY FLOOR LEVEL OR SPACING LISTED.
(2) SPACING MAY BE INCREASED TO 10' FOR 10' PIPE LENGTHS.
MSS = MANUFACTURER'S STANDARDIZATION SOCIETY
- INSTALL ADDITIONAL HANGERS WITHIN 12" OF ELBOWS AND TEES AND AT CONCENTRATED LOADS, INCLUDING VALVES, FLANGES AND STRAINERS 2 1/2" AND LARGER.







APPLICATIONS
- UNINSULATED PIPING

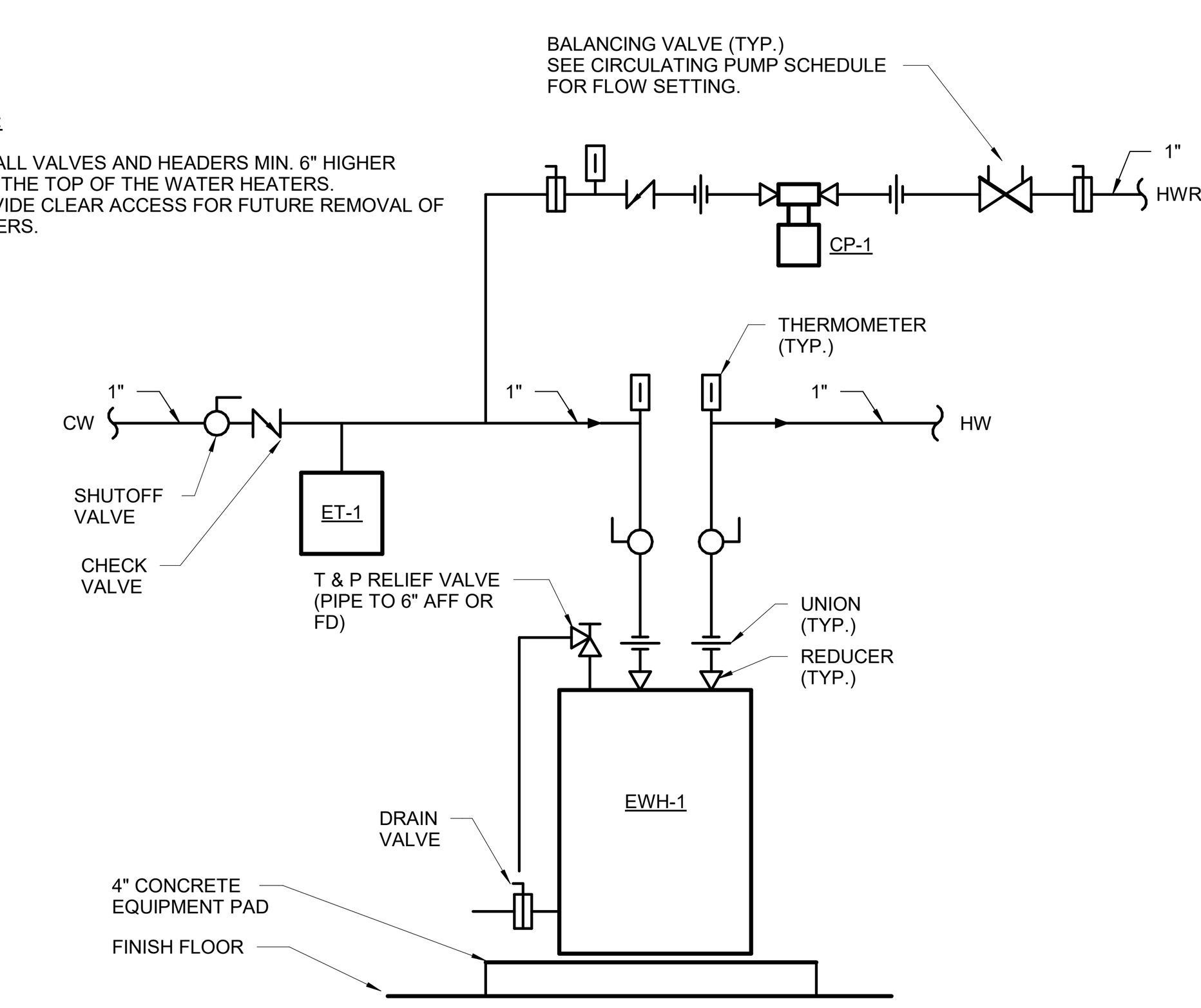
APPLICATIONS
- HOT AND COLD WATER PIPING

APPLICATIONS
- HOT AND COLD WATER PIPING

1
P400
PIPE HANGER, SUPPORT AND INSULATION DETAILS
SCALE: NTS

NOTE:

-INSTALL VALVES AND HEADERS MIN. 6" HIGHER THAN THE TOP OF THE WATER HEATERS.
-PROVIDE CLEAR ACCESS FOR FUTURE REMOVAL OF HEATERS.



3
P400
WATER HEATER PIPING DETAIL - I
SCALE: NTS

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REVISIONS:

DETAILS

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO:
P400

CIRCULATING PUMP SCHEDULE (CP)

TAG	MANUFACTURER	MODEL	APPLICATION	FLUID TEMP F	GPM	HEAD (FT)	RPM	MOTOR H.P.	VOLTS / PHASE	FULL AMPS.	TYPE	NOTES
1	B&G	NBF-36	DOMESTIC HOT WATER	125	3	30	2950	125 WATT	115/1	1.10	IN-LINE	(1)(2)

- ACCEPTABLE MANUFACTURERS: B & G, GRUNDFOS, ARMSTRONG, TACO.
- SEE MOTOR SPECIFICATIONS FOR MOTOR REQUIREMENTS.
- LEAD FREE BRONZE BODY.
(1) PROVIDE INLINE AQUASTAT TO SHUT OFF PUMP AT A 10 DELTA T TEMPERTURE DROP OF SUPPLY OUTLET TEMPERTURE.
(2) PROVIDE BALANCING VALVE UP STREAM OF PUMP TO CONTROL PUMP FLOW.

CLEANOUT SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	APPLICATION	OUTLET SIZES	BODY MATERIAL	ACCESS COVER SIZE	ACCESS COVER MATERIAL	NOTES
CO	-	-	-	ABV. CLGS & EXPOSED PIPE	2" - 6"	PVC	-	-	(1)
ECO	ZURN	Z1402	EXTERIOR	PEDESTRIAN TRAFFIC AREAS	2" - 6"	CAST IRON	-	CAST IRON	(5)
FCO-1	ZURN	Z1400-SZ1	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 6"	CAST IRON	6" x 6"	NICKLE BRONZE	(2)
FCO-2	ZURN	Z1400B	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 6"	CAST IRON	7" DIA	NICKLE BRONZE	(2)
WCO	ZURN	Z1469	WALL	WALL	2" - 6"	PVC	9" DIA	STAINLESS ST.	(3)

- ACCEPTABLE MANUFACTURERS: J.R. SMITH, WATTS, ZURN.
- RECESSED TAPER THREAD PLUG WITH SLOTTED RECESS.
(1) PROVIDE THREADED FEMALE ADAPTER WITH INTERNAL PLUG. ADAPTER MATERIAL SHALL MATCH PIPE MATERIAL TO WHICH CO IS BEING CONNECTED.
(2) PROVIDE CARPET MARKERS AS REQUIRED PER FLOOR TYPE.
(3) PROVIDE TEST/CLEANOUT TEE. THREADED PLUG WITH BRASS INSERT. MATERIAL SHALL MATCH PIPE MATERIAL TO WHICH TEE IS BEING CONNECTED.
(5) PROVIDE FROST SLEEVE.

DRAIN SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	APPLICATION	OUTLET SIZES	BODY MATERIAL	STRAINER TOP SIZE	STRAINER TOP MATERIAL	RIM HGT. A.F.F.	NOTES
FD-1	ZURN	Z415-5SZ	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 4"	CAST IRON	6" SQUARE	NICKLE BRONZE	-1/2"	(1)(8)
FD-2	ZURN	Z415-B	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 4"	CAST IRON	7" DIA	NICKLE BRONZE	-1/2"	(1)(8)
RD-1	ZURN	Z100-DP-EA	ROOF	INSULATED ROOF	3" - 8"	CAST IRON	12"	CAST IRON	-	(3)
DSN-1	ZURN	ZANB-199-SS	WALL	DOWNSPOUT NOZZLE	3" - 12"	NI. BRONZE	-	-	-	(4)

- ACCEPTABLE MANUFACTURERS: J.R. SMITH, WATTS, ZURN.
(1) PROVIDE FLASHING CLAMP FOR FLOORS WITH BUILDING STRUCTURE BELOW. SEE ARCHITECTURAL PLANS FOR LOCATIONS.
(3) TOP SET DECK PLATE AND ADJUSTABLE EXTENSION 1/2" LESS THAN INSULATION THICKNESS AT ROOF DRAIN.
(4) PROVIDE STAINLESS STEEL SCREEN.
(8) PROVIDE TRAPSEAL - RECTORSEAL SURE SEAL

ELECTRIC WATER HEATER SCHEDULE (EWH)

TAG	MANUFACTURER	MODEL	LOCATION	TYPE	SIZE DIA	VOLTS / PHASE	ELEMENT NO. / WATTS	REC. (1) GPH	TANK SIZE GAL.	MAX. PSIG	T&P PSIG	LINING TYPE	TANK TEMP DEG. F	NOTES
1	A.O. SMITH	LTE66D	BOILER RM.	TANK	22"	208/1	2/4500	20	66	300	150	GLASS	120	(3)

- ACCEPTABLE MANUFACTURERS: A.O. SMITH, BRADFORD WHITE, HTP, LOCHINVAR
(1) RECOVERY BASED ON 90 DEGREE F TEMPERATURE RISE.
(3) ELEMENTS WIRED FOR SIMULTANEOUS OPERATION.

EXPANSION TANK SCHEDULE (ET)

TAG	MANUFACTURER	MODEL	MOUNTING	TANK TYPE	CONN. SIZE	TANK CAPACITY GALLONS	ACCEPT. CAPACITY GALLONS	PRECHARGE PSIG	WORKING PSIG	DIA. INCHES	HEIGHT INCHES	WEIGHT POUNDS	NOTES
1	AMTROL	ST-5C	PIPE	DIAPHRAGM	3/4"	2.1	1.0	(1)	150	10	10	14	(1)

- ACCEPTABLE MANUFACTURERS: FLEXCON, AMTROL, WESSELS.
(1) SET TO STATIC PRESSURE AT STREET OR SYSTEM IF HIGHER. SEE WATER CALCULATION FOR MORE INFORMATION.

HOSE BIBB SCHEDULE (HB)

TAG	MANUFACTURER	MODEL	LOCATION	FREEZE PROOF	BACKFLOW PREVENTER	WALL FLANGE	CONTROL	WATER SUPPLY	NOTES
1	WOODFORD	67B	EXTERIOR	YES	INTEGRAL ASSE 1052	YES	LOOSE KEY	-	-
2	ACORN	8156-SSLF	INTERIOR	NO	VACUUM BREAKER ASSE 1011	NO	HANDLE	HOT & COLD	-

- ACCEPTABLE MANUFACTURERS: ACORN, CHICAGO, WATTS, WOODFORD, ZURN.

LAVATORY SCHEDULE (L)

		BASIN								FAUCET									
TAG	ADA (1)	MANUFACTURER	MODEL	CENTER SPREAD	MOUNTING	SIZE L x W x D	DRAIN TYPE	NO. OF HOLES	CARRIER HOLES	MANUFACTURER	MODEL	SPOUT REACH	SPOUT HEIGHT	GPM	HANDLE	FINISH	TEMP. DEG. F	SUPPLY STOP TYPE	NOTES
1	YES	KOHLER	K-2005	-	WALL	21-1/4" x 18-1/8" x 7-1/4"	GRID	3	YES	DELTA	523LF HDF	5"	1-11/16"	1.2	LEVER	CHROME	105	KEY	-

- ACCEPTABLE MANUFACTURERS:
-BASIN: AMERICAN STANDARD, KOHLER, SLOAN.
-FAUCETS: CHICAGO, DELTA, SLOAN, T&S BRASS.
-STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.
-DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.
-CARRIERS AND SUPPORTS: ANCON, JOSAM, SMITH, WADE, ZURN.
- VITREOUS CHINA LAVS, 1-1/4" 17 GAUGE "P" TRAP WITH CLEANOUT PLUG, BUSHING ON END OF OUTLET TUBE, WALL FLANGE.
- ALL WETTED PARTS SHALL BE LEAD FREE COMPLIANT.
- WALL MOUNT LAVTORY WITH BACKSPLASH.
- FAUCETS WITH VANDAL RESISTANT AERATOR.
(1) PROVIDE OFFSET GRID DRAIN WITH TRAP & SUPPLY GUARD FOR ADA ACCESSIBLE LAVATORY. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

SERVICE SINK SCHEDULE (SS)

		BASIN						FAUCET				
TAG	MOUNTING	MANUFACTURER	MODEL	MATERIAL TYPE	SIZE L/H x W x D	SHAPE	RIM GUARD	MANUFACTURER	MODEL	BACKFLOW PREVENTER	GPM	NOTES
1	FLOOR	MUSTEE	63M	DURASTONE	24" x 24" x 10"	SQUARE	(1)	CHICAGO	305-RCP	(2)	5	(3)
2	WALL / FLOOR	MUSTEE	18F	DURASTONE	20 x 24" x 14 3/8"	SQUARE	-	CHICAGO	1895-GN8AE3ABCP	(2)	2.2	-

- ACCEPTABLE MANUFACTURERS:
-BASIN: FIAT, MUSTEE.
-FAUCET: CHICAGO, T&S BRASS.
(1) BUMPER GUARDS ON EXPOSED RIMS.
(2) VACUUM BREAKERS SHALL COMPLY WITH ASSE 1011.
(3) PROVIDE STAINLESS STEEL 3 MOP HOLDER HANGER, HEAVY DUTY 5/8" DIAMETER REINFORCED RUBBER HOSE, AND STAINLESS STEEL HOSE BRACKET.

URINAL SCHEDULE (U)

		URINAL					FLUSH VALVE					
TAG	ADA (1)	MANUFACTURER	MODEL	MOUNTING	RIM HT. A.F.F.	CARRIER	MANUFACTURER	MODEL	GAL. PER FLUSH	OPERATION TYPE	MIN. PRESS. PSIG	NOTE
1	YES	KOHLER	K-4920-T	FLOOR	-	-	SLOAN	G2-8186	0.5	SENSOR	15	(2)

- ACCEPTABLE MANUFACTURERS:
-URINAL: AMERICAN STANDARD, KOHLER, SLOAN.
-FLUSH VALVE: DELANY, SLOAN.
- VITREOUS CHINA.
- WASHOUT URINALS WITH REMOVABLE STAINLESS STEEL STRAINER.
(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS.
(2) BATTERY POWERED.

WATER CLOSET SCHEDULE (WC)

		BOWL					TANK			FLUSH VALVE					SEAT		
TAG	ADA (1)	MANUFACTURER	MODEL	MOUNTING	RIM HT. A.F.F.	CARRIER	TYPE	GAL. PER FLUSH	SUPPLY STOP TYPE	MANUFACTURER	MODEL	GAL. PER FLUSH	OPERATION TYPE	MIN. PRESS. PSIG	MANUFACTURER	MODEL	NOTES
1	YES	KOHLER	K-3493-SS	FLOOR	17-1/8"	NO	PRESSURE	1.6	KEY	-	-	-	-	-	BEMIS	1655SSCT	(6)
2	-	KOHLER	K-3505-SS	FLOOR	17-1/8"	NO	PRESSURE	1.6	KEY	-	-	-	-	-	BEMIS	1655SSCT	(6)

- ACCEPTABLE MANUFACTURERS:
-BOWL: AMERICAN STANDARD, KOHLER, SLOAN.
-TANK: AMERICAN STANDARD, KOHLER, SLOAN.
-SEAT: BEMIS, CHURCH.
- VITEROUS CHINA, WATER SAVING, MINIMUM 2 - 1/8" GLAZED TRAPWAY, SIPHON JET ELONGATED BOWL WITH WHITE SOLID PLASTIC OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE.
- CONTROLS FOR ADA ACCESSIBLE FIXTURES SHALL BE ON THE OPEN SIDE.
(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS.
(6) PROVIDE TANK COVER LOCKS.

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SCHEDULES

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: P500

PACKAGED ROOFTOP UNITS

UNIT NO.	SERVICE	SYSTEM TYPE	UNIT				SUPPLY FAN				EXHAUST FAN			HEATING SECTION					
			CFM OF STD. AIR	MIN. CFM OF O.A.	MAX. CFM OF O.A.	EXT. S.P. IN IN. WATER	MOTOR HP	FAN WHEEL TYPE	VFD	FILTER TYPE	MOTOR HP	FAN WHEEL TYPE	HOT GAS DEHUMID. COIL	ENT. AIR TEMP.	LV. AIR TEMP.	INPUT BTU	OUTPUT BTU	GAS TYPE	GAS PRESS.
RTU-1	BUILDING ADDITION	VAV	1,280	160	200	1.5	1	FC	YES	2"MERV 13	0.2	FC	NO	50 °F	70 °F	80,000	64,000	NG	2

UNIT NO.	COOLING SECTION					CONDENSER FANS				DESIGN DIMENSIONS					VIBRATION ISOLATORS		
	NOM. TONS	REF. TYPE	ENT. AIR TEMP.	LV. AIR TEMP.	MIN. NO. OF COOLING STAGES	NO.	TYPE	HP	MIN. EER	WIDTH	LENGTH	HEIGHT	WEIGHT LBS.	SUPPORT	TYPE	MIN. STATIC DEFLECT.	MANUF. MODEL
RTU-1	4	R-410a	77.3 °F	53 °F	2	1	PROP	0.2	17	3' - 9"	5' - 10"	3' - 0"	900	CURB ON ROOF	SP	1' - 0"	TRANE PRECEDENT

VARIABLE AIR VOLUME BOXES

BOX						HEATING COIL							
UNIT NO.	SERVICE	CFM OF STD. AIR	MIN. CFM OF STD. AIR	UPSTREAM DUCT SIZE	MAX. AIR P.D. IN IN. OF WATER	HEATING CFM OF STD. AIR	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
V-1	106 & 108	345	100	6"Ø	1	345	55 °F	95 °F	180 °F	160 °F	1.5	1/2"	PRICE SDV
V-3	WAITING 109	200	60	6"Ø	1	200	55 °F	85 °F	180 °F	160 °F	0.6	1/2"	PRICE SDV
V-4	RECEPTION 110	300	90	6"Ø	1	300	55 °F	95 °F	180 °F	160 °F	1.3	1/2"	PRICE SDV
V-5	CONF/PRIN 112	300	90	6"Ø	1	300	55 °F	95 °F	180 °F	160 °F	1.3	1/2"	PRICE SDV
V-6	HEALTH 113	150	50	6"Ø	1	150	55 °F	95 °F	180 °F	160 °F	0.6	1/2"	PRICE SDV

CABINET HEATERS

UNIT NO.	SERVICE	TYPE	CAP. MBH	CFM OF STD. AIR	MOTOR HP	DRIVE	SPEED	RECESS	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
CH-1	VESTIBULE V100	ISGB	25.5	420	0.04	DIRECT	3	0' - 4"	180 °F	160 °F	3.1	3/4"	RITTLING 04

CONVECTORS

UNIT NO.	SERVICE	CABINET SIZE			ELEMENT SIZE	CAP. MBH	TYPE	RECESS	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
		D	L	H									
C-1	TOILET T114	4"	24"	18"	4 x 21	0.9	RGB	4"	180 °F	140 °F	0.4	1/2"	RITTLING SL
C-2	TOILET T111	4"	24"	18"	4 x 21	0.9	RGB	4"	180 °F	140 °F	0.4	1/2"	RITTLING SL
C-3	BOYS TOILET T104	8"	60"	32"	8 x 57	5.8	SW	0"	180 °F	140 °F	2.7	3/4"	RITTLING SL
C-4	GIRLS TOILET T105	8"	60"	32"	8 x 57	5.8	SW	0"	180 °F	140 °F	2.7	3/4"	RITTLING SL

ROOF EXHAUSTERS

UNIT NO.	SERVICE	CFM OF STD. AIR	FAN DIA	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	BACKDRAFT DAMPER	MANUF. MODEL
RE-1	BOYS & GIRLS TOILET ROOMS	700	1' - 3"	7	0.5	0.33	DIRECT	BY B.A.S.	COOK ACED-150

GRILLES AND DIFFUSERS

UNIT NO.	SERVICE	NECK SIZE	ROUND CONN. SIZE	VOLUME DAMPER LOCATION	TRANSFER DUCT SIZE	AIR PATTERN	MANUF. MODEL
ER-1	SIDEWALL EXHAUST REGISTER	12x12	-	INTEGRAL	-	45°	PRICE 530D
RR-1	SIDEWALL RETURN REGISTER	18x6	-	INTEGRAL	-	45°	PRICE 530D
SG-1	PLAQUE DIFFUSER	24x24	8"Ø	DUCT TAKEOFF	-	4-WAY	PRICE SPD
SG-2	PLAQUE DIFFUSER	24x24	10"Ø	DUCT TAKEOFF	-	4-WAY	PRICE SPD
SR-1	SIDEWALL SUPPLY REGISTER	8x8	-	INTEGRAL	-	22.5°	PRICE 520D
TG-1	TRANSFER GRILLE	12x12	-	-	SEE SHEET	EGGCRATE	PRICE 80
TG-2	SIDEWALL TRANSFER GRILLE	8x8	-	-	-	45°	PRICE 530
TG-3	SIDEWALL TRANSFER GRILLE	8x8	-	-	-	45°	PRICE 530
TG-4	SIDEWALL TRANSFER GRILLE	8x8	-	-	-	45°	PRICE 530
TG-5	TRANSFER GRILLE	16x16	-	-	SEE SHEET	EGGCRATE	PRICE 80

CEILING EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	TYPE	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR WATTS	MOTOR RPM	SOLID STATE SPEED CONTROLLER	MANUF. MODEL
CE-1	TOILET T111	150	CEILING	3	0.25	64 W	1100	YES	COOK GN-186
CE-2	TOILET T114	150	CEILING	3	0.25	64 W	1100	YES	COOK GN-186
CE-3	JAN/STOR 120	150	CEILING	3	0.25	64 W	1100	YES	COOK GN-186

MOTOR STARTERS

DESCRIPTION	MCA	MOCP	MOTOR HP	VOLTAGE	PHASE	KW	STARTER FURNISHED BY	STARTER INSTALLED BY	STARTER LOCATION	STARTER TYPE	REMARKS
CE-1				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	
CE-2				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	
CE-3				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	
CH-1			0.04	120	1		HVAC	HVAC	PRE-WIRED	-	
RE-1			0.33	120	1		HVAC	EC	NEAR UNIT	SP.SW.	
RTU-1	30	40		208	3		HVAC	HVAC	PRE-WIRED	-	

UNDERCUT DOORS

ROOM NAME/NO.	SYMBOL	DESCRIPTION	HEIGHT OF UNDERCUT
TOILET T114	UC	DOOR UNDERCUT	0' - 1"
TOILET T111	UC	DOOR UNDERCUT	0' - 1"
HEALTH 113	UC	DOOR UNDERCUT	0' - 1"

SYMBOLS

SYMBOL	DESCRIPTION
HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
G	GAS
D	DRAIN
	BALL VALVE
	BUTTERFLY VALVE
CBV	CALIBRATED BALANCING VALVE
	FLOW DIRECTION
	GAS VALVE
	UNION
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
AD	AUTOMATIC DAMPER WITH ACCESSIBLEDUCT ACCESS DOOR
FD	FIRE DAMPER WITH ACCESSIBLE DUCT ACCESS DOOR
	ACOUSTICAL INSULATION LINING ON INSIDE OF DUCT. LISTED DIMENSION IS CLEAR INSIDE DIMENSION.
	TURNING VANES
	BRANCH TAKE-OFF
	LOW PRESSURE FLEX. DUCT FITTING WITH MANUAL VOLUME DAMPER
UC	1" DOOR UNDERCUT. DOOR UNDERCUT BY GEN. CONTR.
T	ROOM SENSOR OR THERMOSTAT
	CONNECT TO EXISTING DUCTWORK OR PIPING. FIELD VERIFY EXACT REQUIREMENTS.
	STATIC PRESSURE SENSOR

GENERAL NOTES:

A. THE MECHANICAL CONTRACTOR IS REQUIRED TO VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND HE SHALL BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN THE PREPARATION OF HIS BID. LACK OF INFORMATION ON EXISTING CONDITIONS SHALL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.

B. ROUTE ALL NEW PIPING AND DUCTWORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING PIPING, CONDUIT, STRUCTURE, LIGHTING, ETC. PROVIDE ALL OFFSETS, ELBOWS, ETC. AS REQUIRED TO CONNECT BETWEEN POINTS INDICATED.

C. MECHANICAL CONTRACTOR SHALL VERIFY EXISTING CURRENT CHARACTERISTICS AT JOB SITE PRIOR TO ORDERING EQUIPMENT.

D. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT OUTLET AND GRILLE LOCATIONS WITH THE FINAL LIGHTING LAYOUT.

E. ELECTRICAL, STRUCTURAL, PLUMBING, ETC. REQUIREMENTS FOR THE EQUIPMENT MANUFACTURER LISTED ON THE SCHEDULE IS REFLECTED ON THE DOCUMENTS OF OTHER TRADES. ANY MODIFICATIONS NECESSARY TO ACCOMMODATE A MANUFACTURER OTHER THAN THAT LISTED IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

F. THE MECHANICAL CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH THE GENERAL CONTRACTOR AND OWNER. PROVIDE ALL TEMPORARY PIPING, DUCTWORK, VENTILATION, CONTROLS, ETC. AS REQUIRED TO ACCOMMODATE CONSTRUCTION PHASES.

WISCONSIN
RANDY L. ALL
E-30277
CEDARBURG, WI
PROFESSIONAL ENGINEER

SHEET INDEX	
	FEI JOB No. 19-060
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H401	PIPING PLANS
H601	DETAILS

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BID PACKAGE:
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JOB NO: 190106-06
SHEET NO: H100

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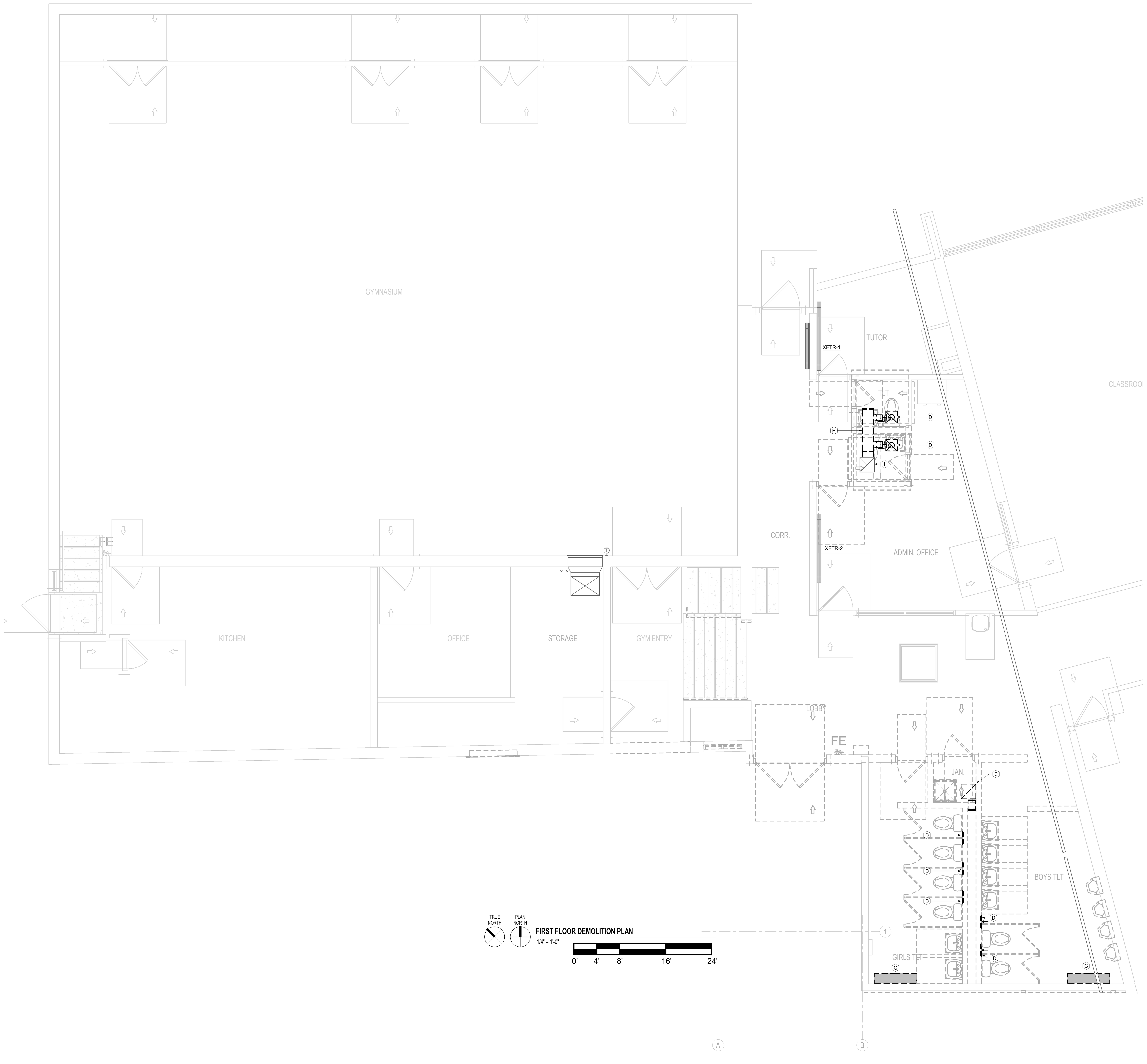
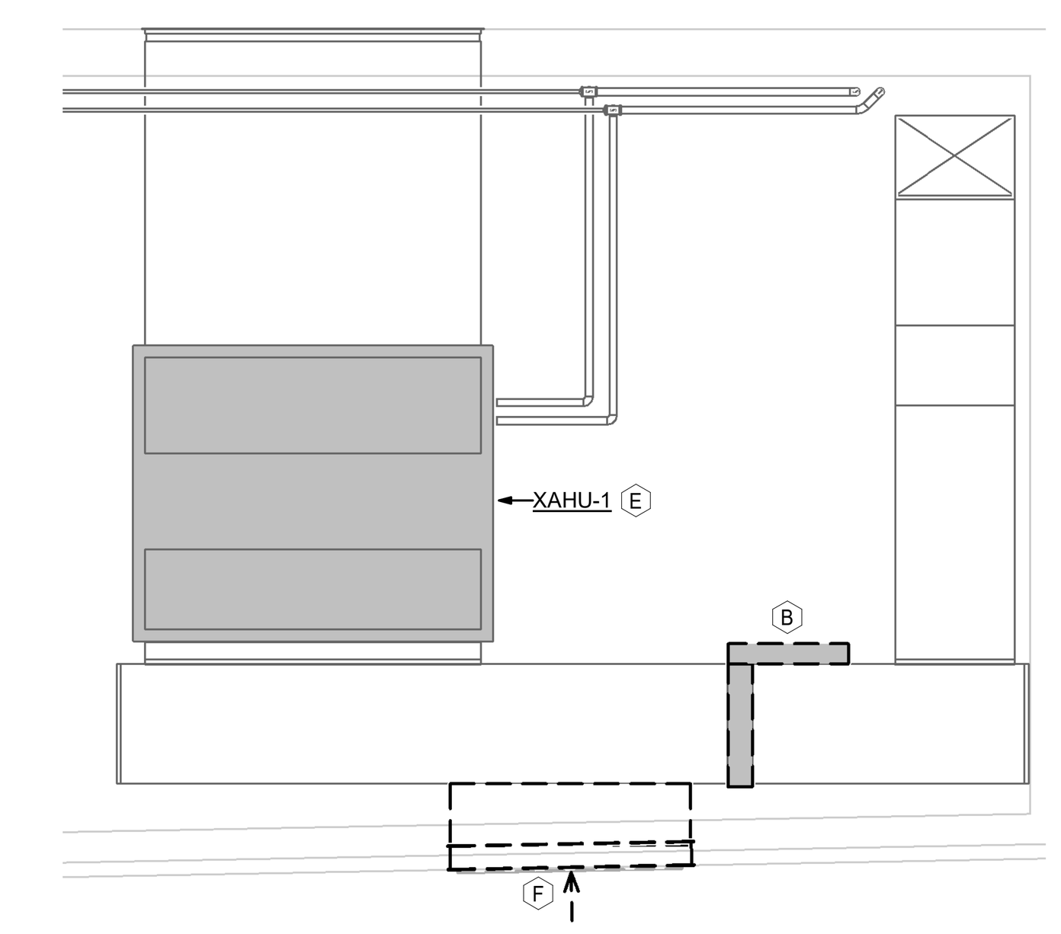
DEMOLITION SYMBOL	DESCRIPTION
————————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES

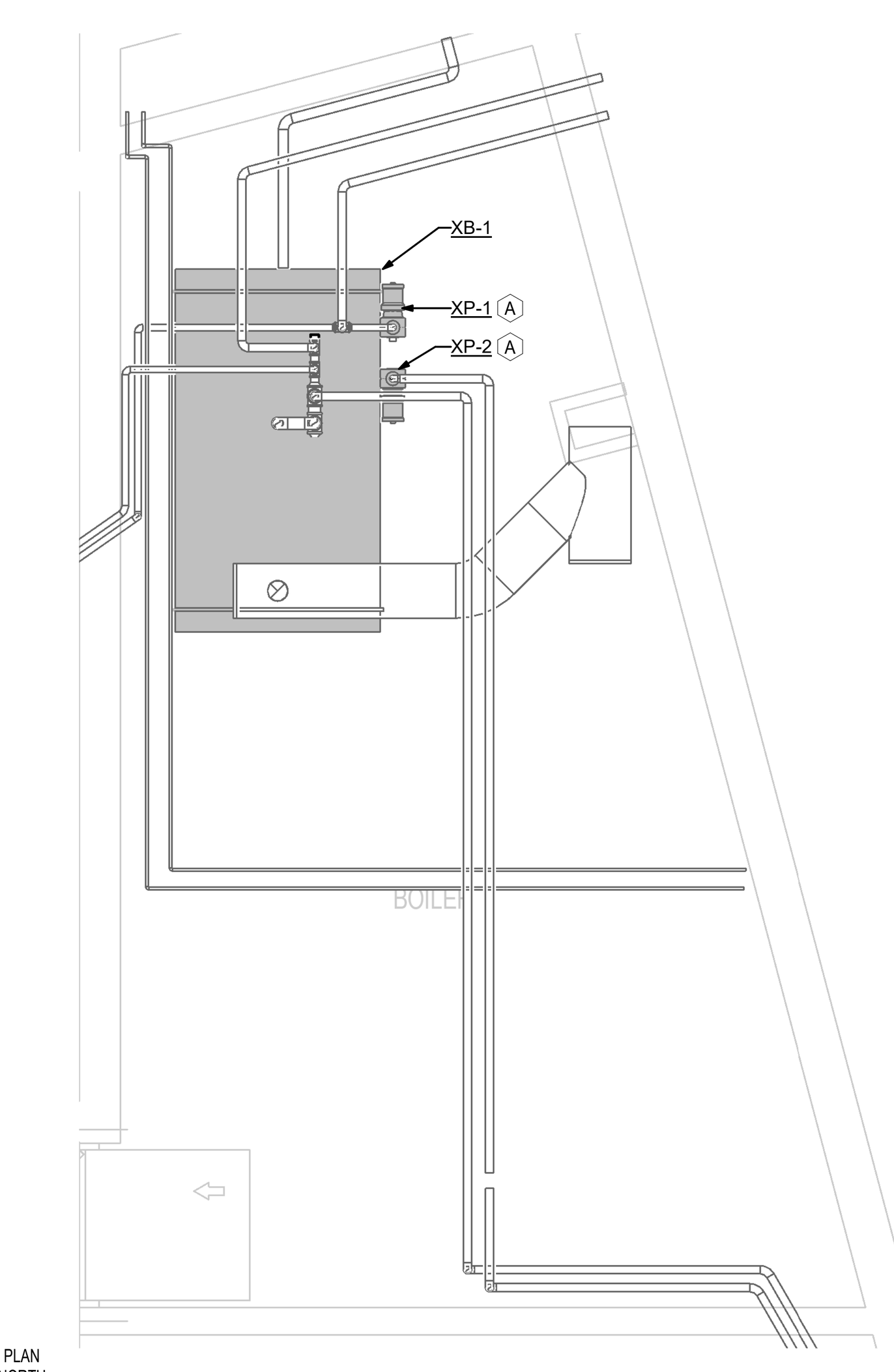
HEX KEY	DESCRIPTION
A	MEASURE AND RECORD HOT WATER GPM AND HEA PRESSURE ON EXISTING PUMP. SUBMIT REPORT TO ENGINEER.
B	REMOVE EXISTING UNUSED ELECTRIC DUCT HEATER.
C	REMOVE EXISTING EXHAUST FAN AND CONTROL. CURB TO REMAIN. PREPARE CURB FOR NEW FAN. SEE NEW WORK PLAN.
D	REMOVE EXISTING GRILLE AND UNUSED DUCTWORK TO POINT INDICATED.
E	MEASURE AND RECORD SUPPLY CFM, OUTSIDE AIR CFM, RETURN CFM, HOT WATER GPM, AND OVER ALL STATIC PRESSURE ON EXISTING AIR HANDLING UNIT. SUBMIT REPORT TO ENGINEER.
F	REMOVE EXISTING OUTSIDE AIR INTAKE LOUVER, UNUSED DUCT, AND CONTROL. CAP DUCT WITH INSULATED SHEET METAL AND SEAL WEATHERTIGHT. G.C. TO PATCH WALL.
G	REMOVE EXISTING CONVECTOR AND UNUSED PIPE AT FLOOR. PROVIDE TEMPORARY CAP. SEE NEW WORK PLAN.
H	REMOVE EXISTING DUCTWORK AND CAP AT MAIN.
I	REMOVE EXISTING FAN CONTROL.



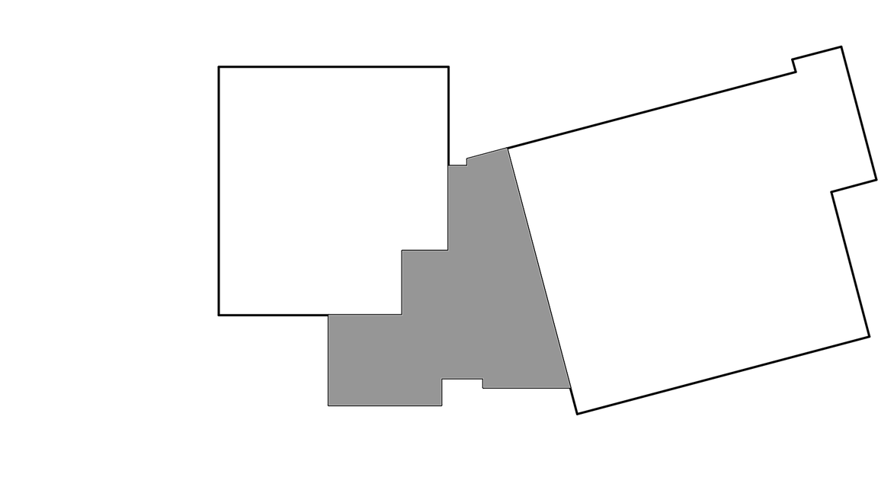
TRUE NORTH PLAN NORTH
FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"
0' 4' 8' 16' 24'



TRUE NORTH PLAN NORTH
MEZZANINE DEMOLITION PLAN
1/4" = 1'-0"
0' 4' 8' 16' 24'



TRUE NORTH PLAN NORTH
LOWER LEVEL DEMOLITION PLAN
1/4" = 1'-0"
0' 4' 8' 16' 24'



KEY PLAN

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DEMOLITION PLANS

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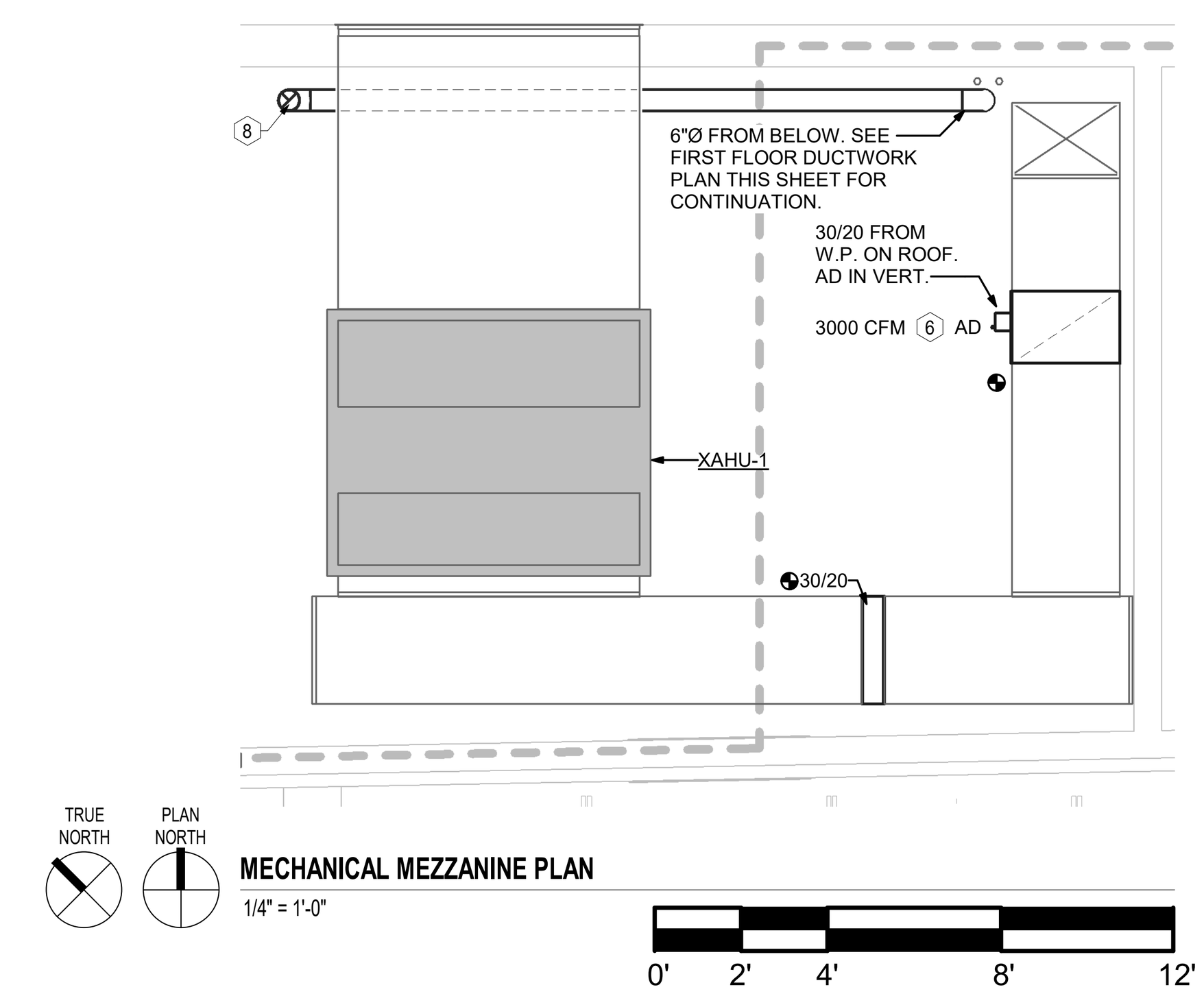
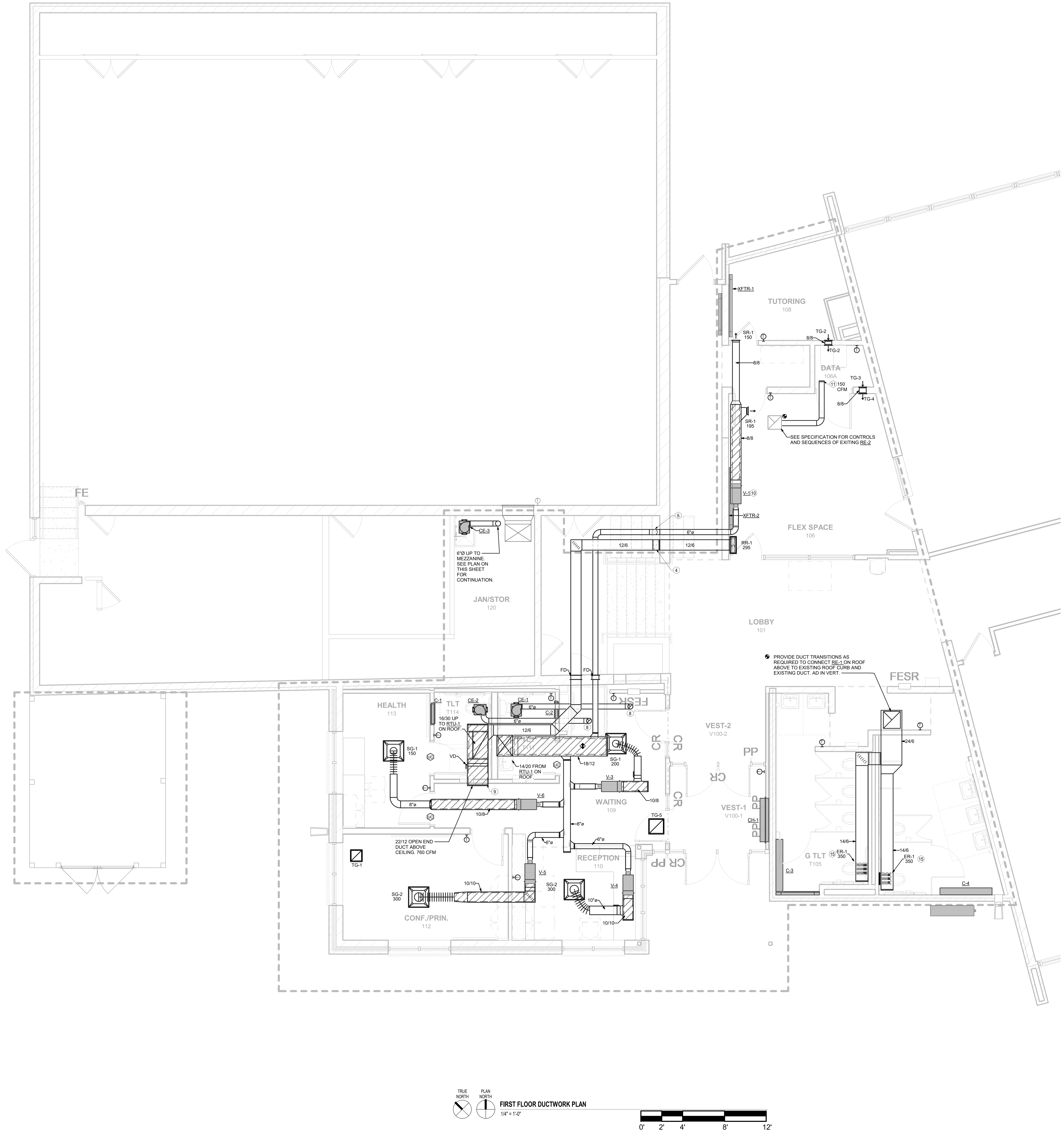
JOB NO: 190106-06
SHEET NO:
H201

KEYED NOTES	
HEX KEY	DESCRIPTION
4	OFFSET UP
5	OFFSET DOWN
6	BALANCE TO CFM NOTED.
8	6"DIA. UP THRU ROOF CURB TO W.P. HOOD.
9	OPEN END DUCT ABOVE CEILING(S).
10	PROVIDE SIDE ACCES PANEL IN SOFFITT FOR ACCESS TO VAV BOX, COIL, POWER AND CONTROLS.
11	OPEN END DUCT COVERED WITH WIRE SCREEN.
15	ER AT BOTTOM OF DUCT.



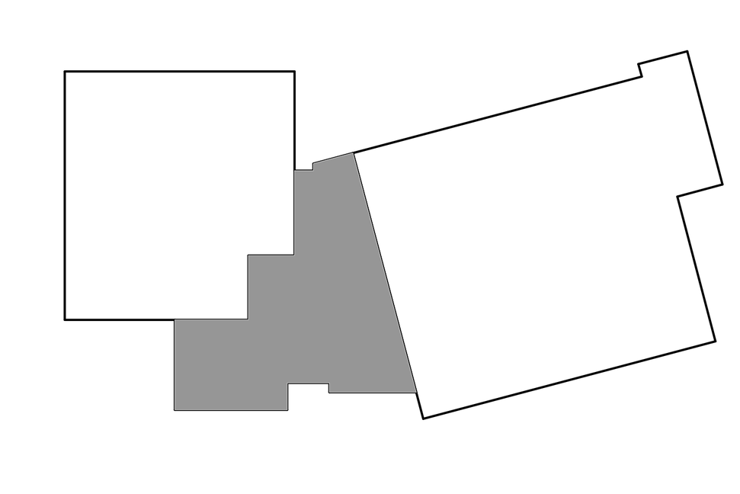
MECHANICAL MEZZANINE PLAN

1/4" = 1'-0"



FIRST FLOOR DUCTWORK PLAN

1/4" = 1'-0"



KEY PLAN

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DUCTWORK PLANS

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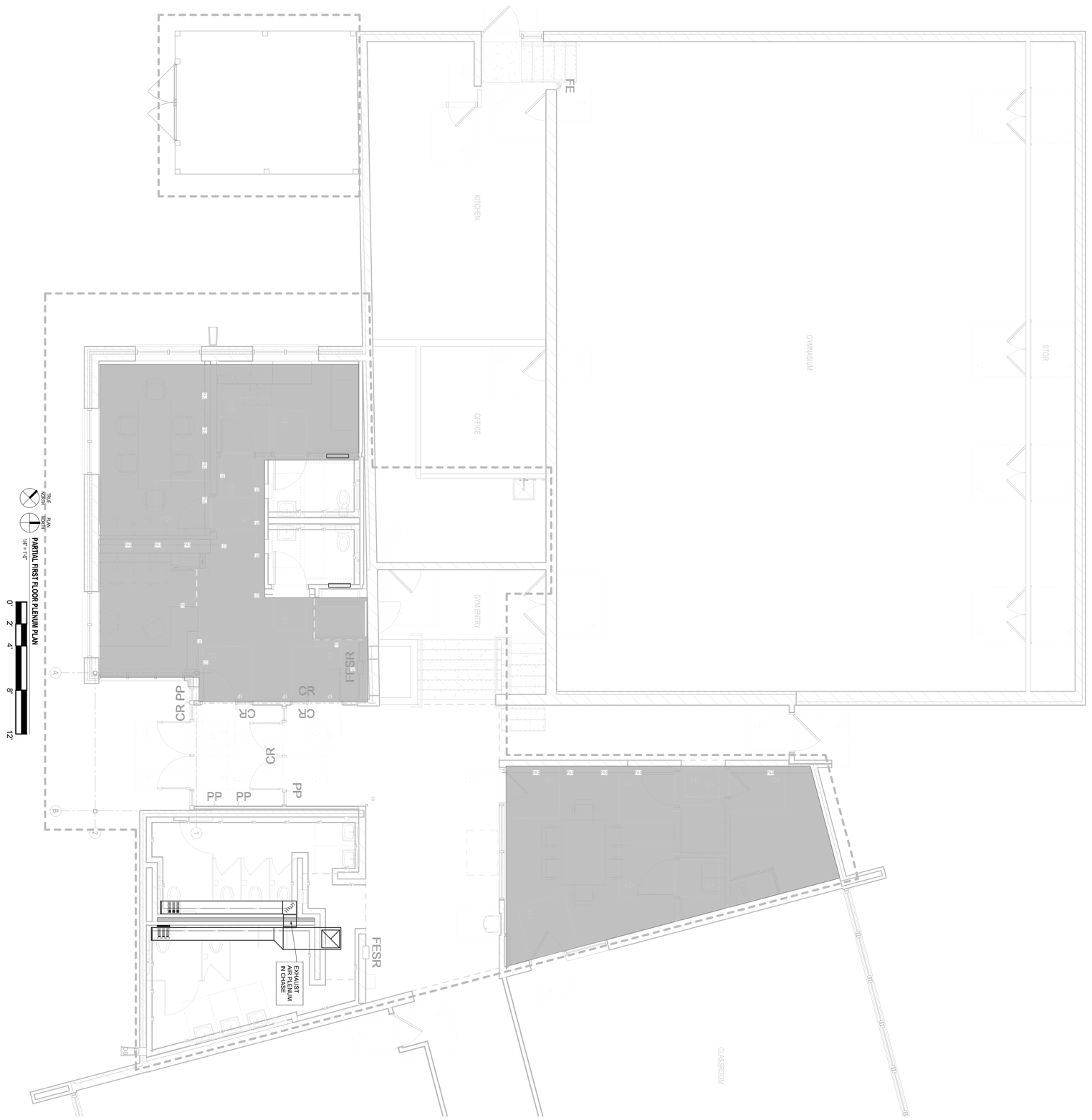
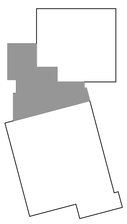


KEY PLAN



SHADED AREA INDICATES THE AREA WHERE THE SPACE BETWEEN THE CEILING AND THE STRUCTURE ABOVE IS USED AS A RETURN AIR PLENUM. THIS SHEET IS FOR REFERENCE ONLY. VERIFY CONDITIONS ON SITE PRIOR TO INSTALLATION.

H302

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DATE 09-13-19
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PLENUM PLAN

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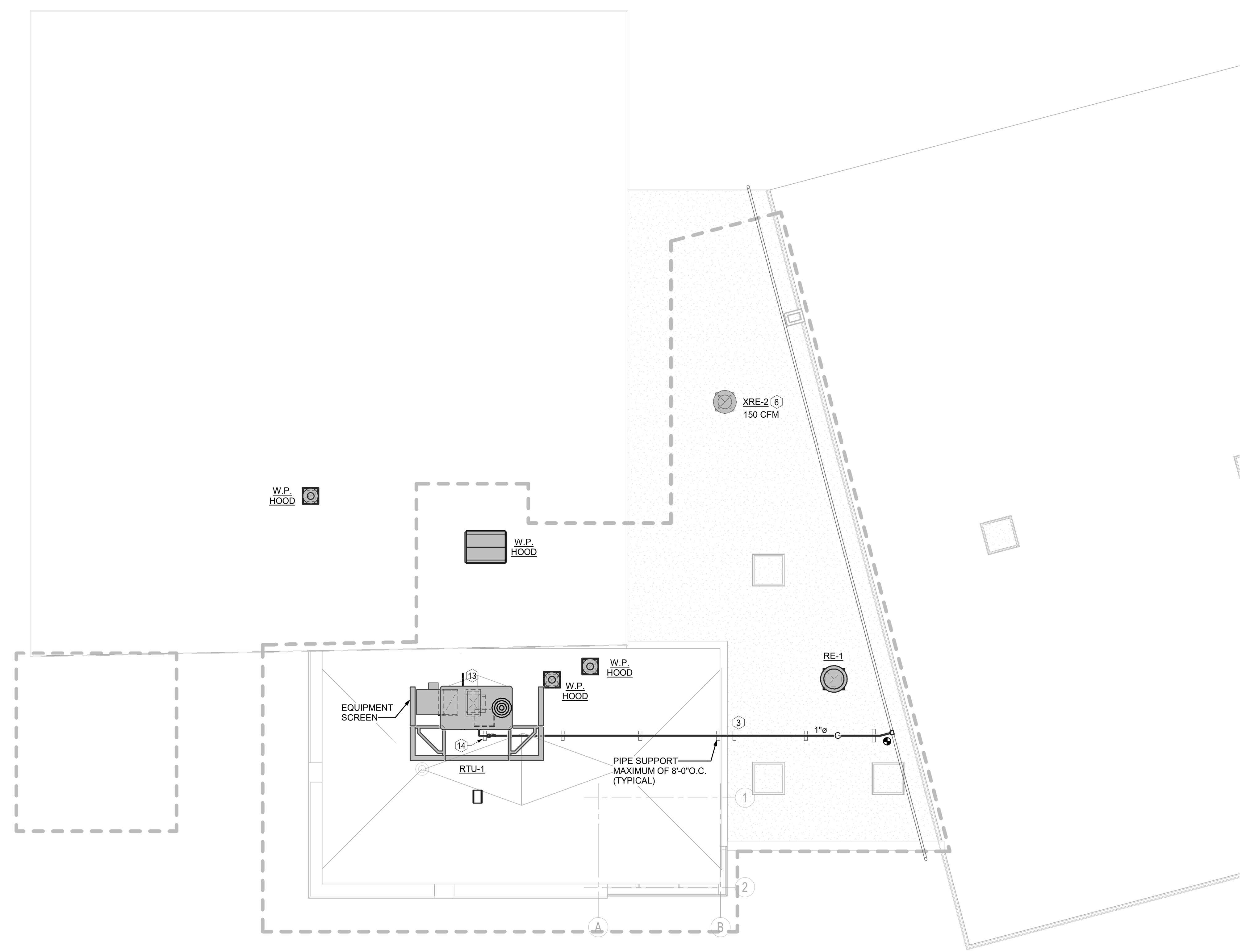
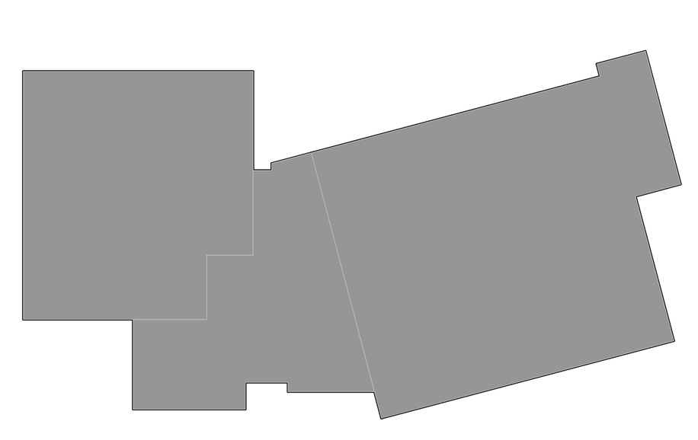
KEYED NOTES	
HEX KEY	DESCRIPTION
3	RISE
6	BALANCE TO CFM NOTED.
13	1-1/4" LOOP SEAL.
14	1"NG TO RTU-1 WITH SHUT-OFF VALVE.



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

0' 4' 8' 16' 24'



KEY PLAN

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ROOF PLAN

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: H303

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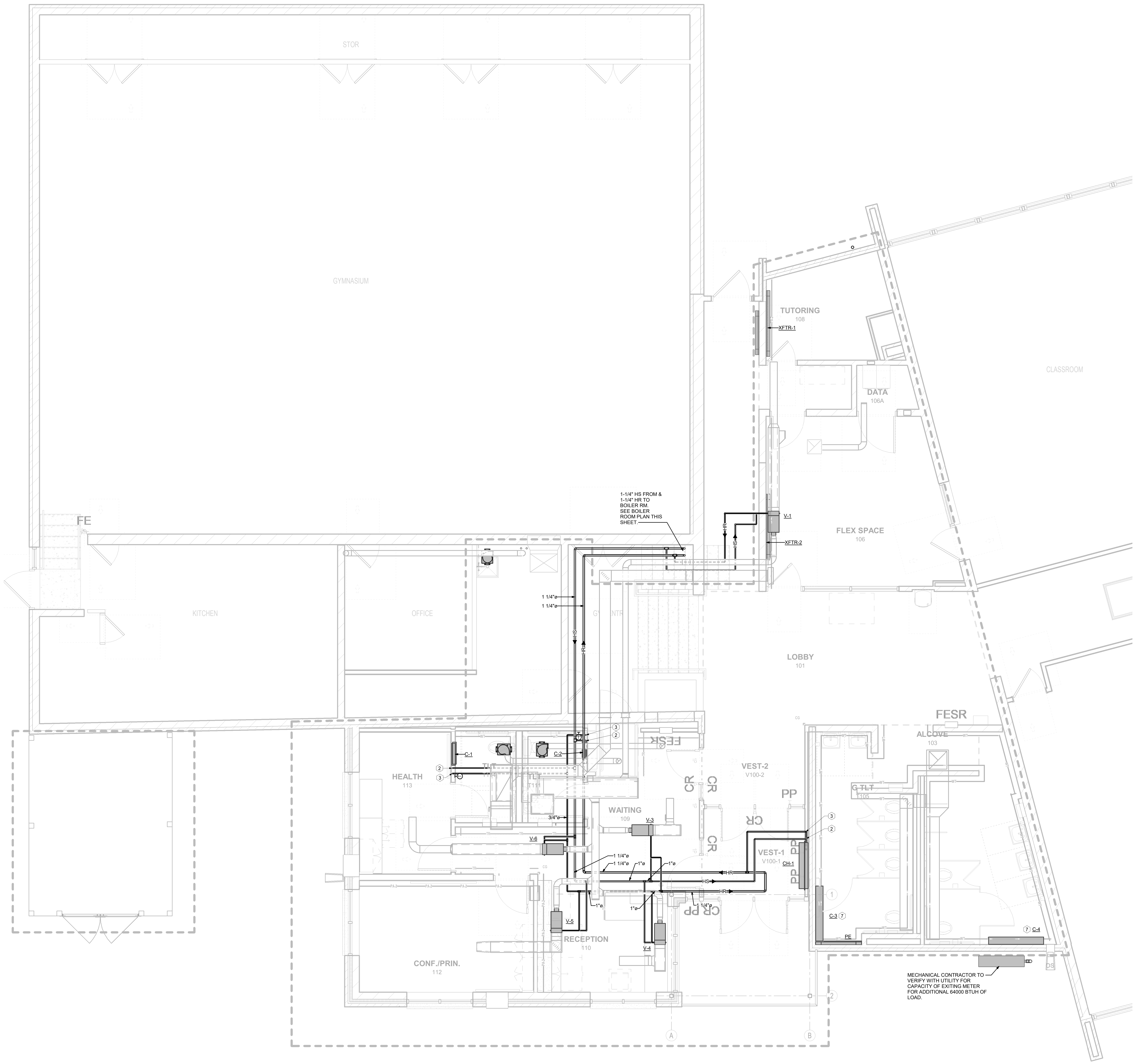
9/13/2019 5:42:11 AM

KEYED NOTES	
HEX KEY	DESCRIPTION
1	BALANCE EXISTING PUMP TO PRE-CONSTRUCTION FLOW PLUS (+) 9.2 GPM.
2	DROP AND VENT
3	RISE
7	EXTEND EXISTING HS & HR AT FLOOR TO UNIT. FIELD VERIFY REQUIRED.

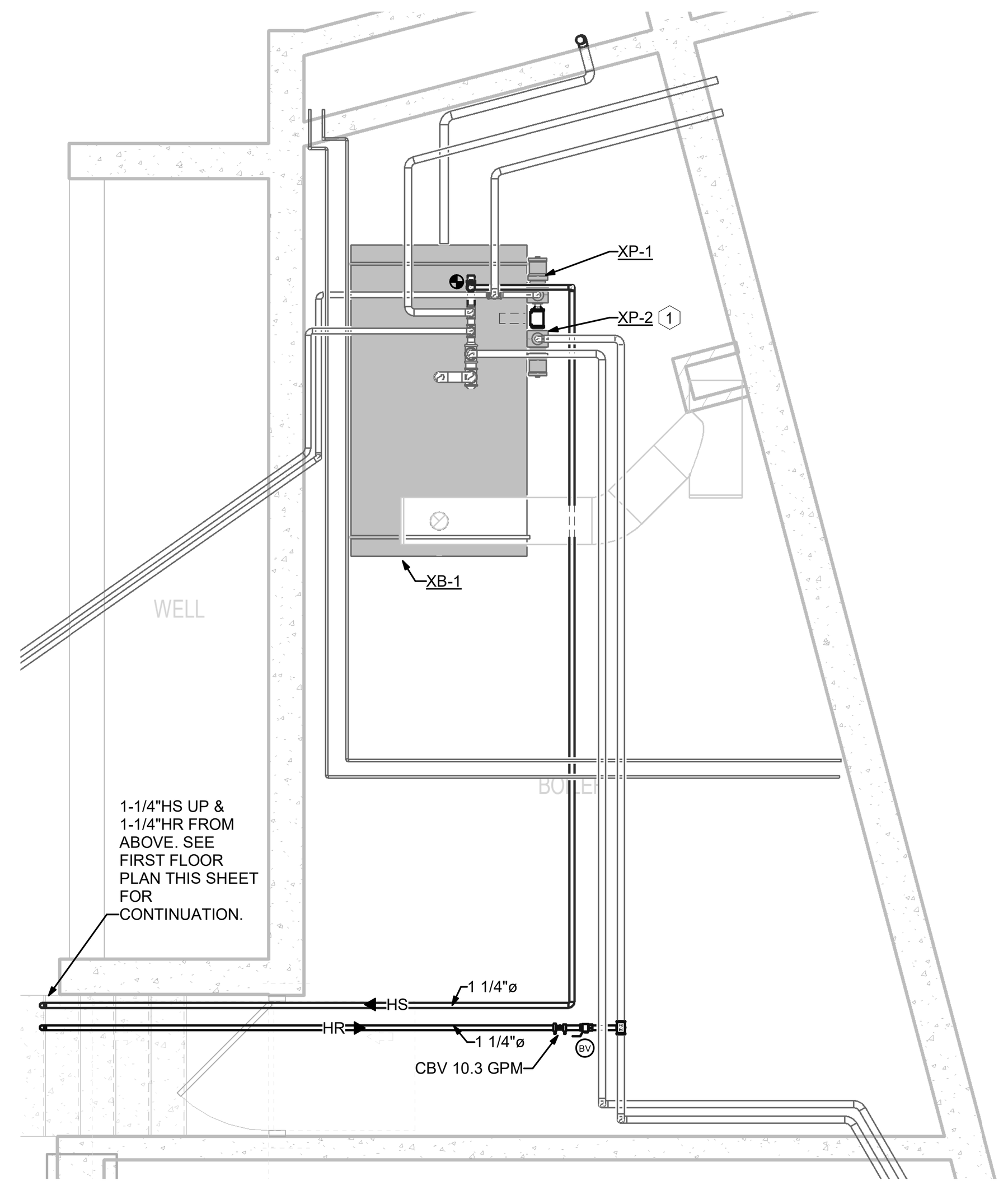


TRUE NORTH PLAN NORTH

FIRST FLOOR PIPING PLAN

1/4" = 1'-0"

0' 4' 8' 16' 24'

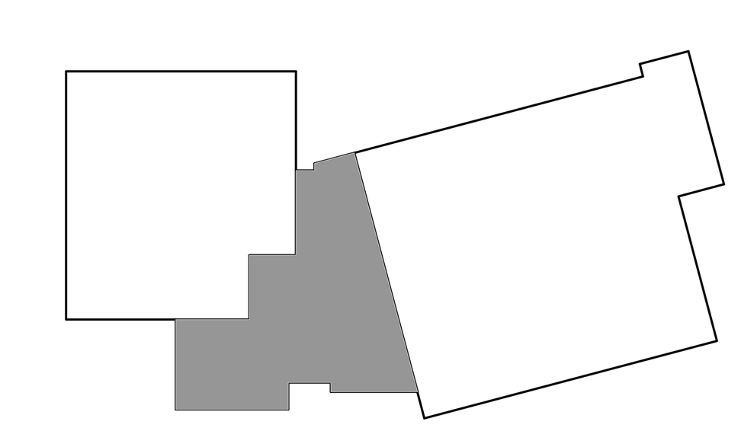


TRUE NORTH PLAN NORTH

BOILER ROOM PIPING PLAN

1/4" = 1'-0"

0' 2' 4' 8' 12'



KEY PLAN

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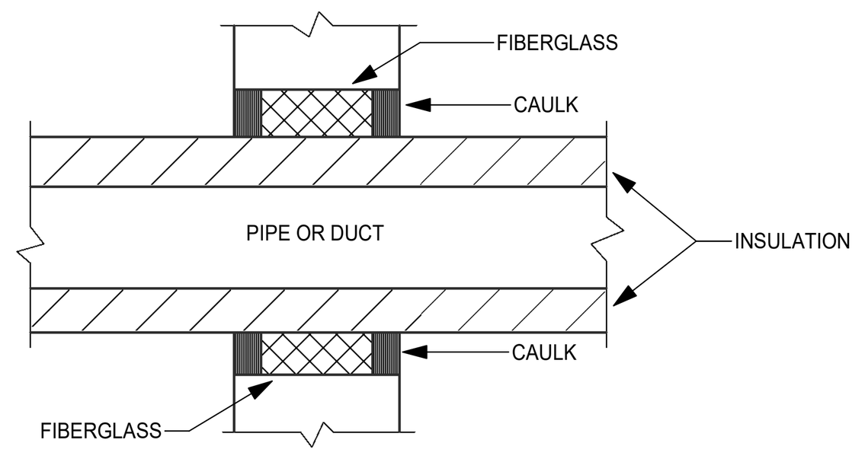
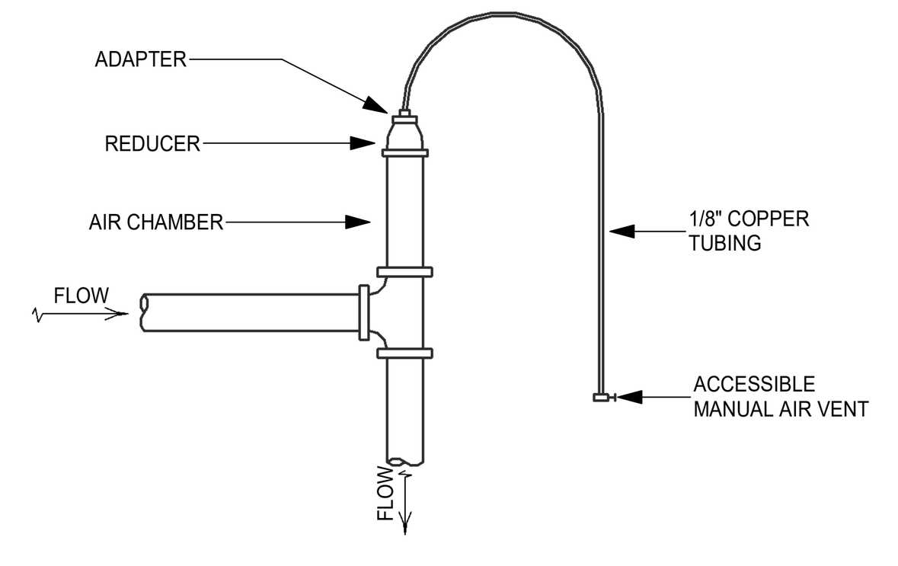
PIPING PLANS

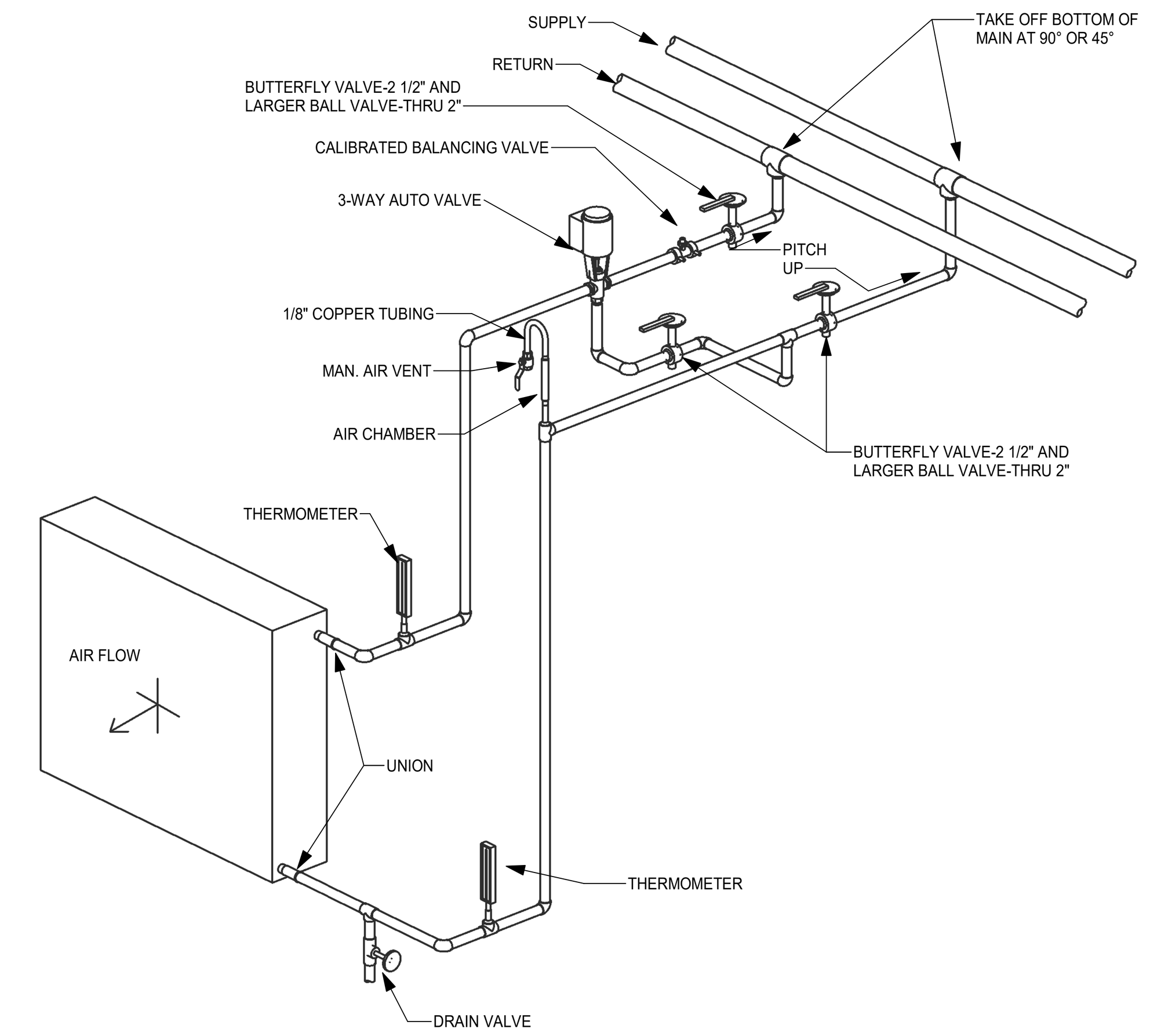
CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: H401



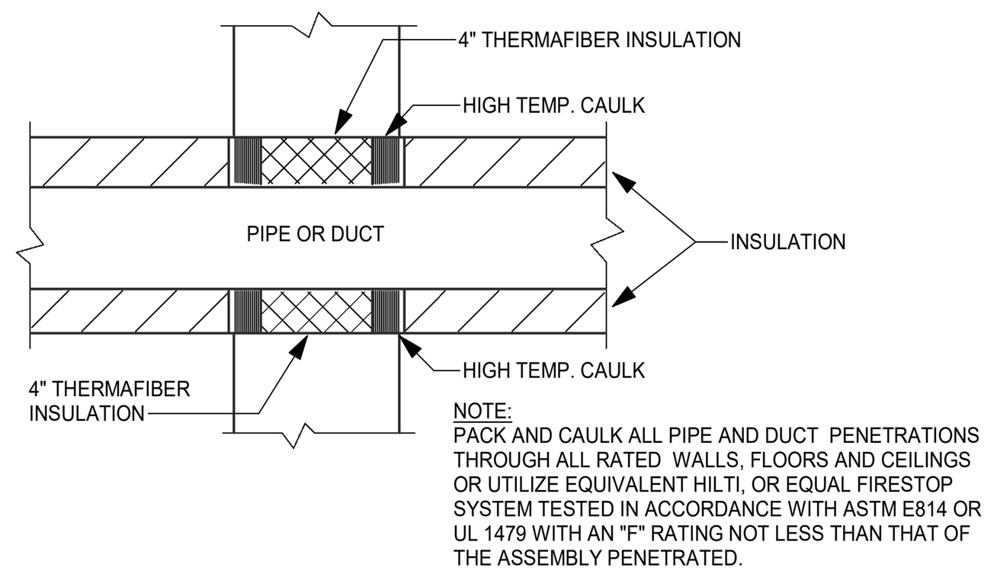
PACK AND CAULK
(NON-RATED WALLS)



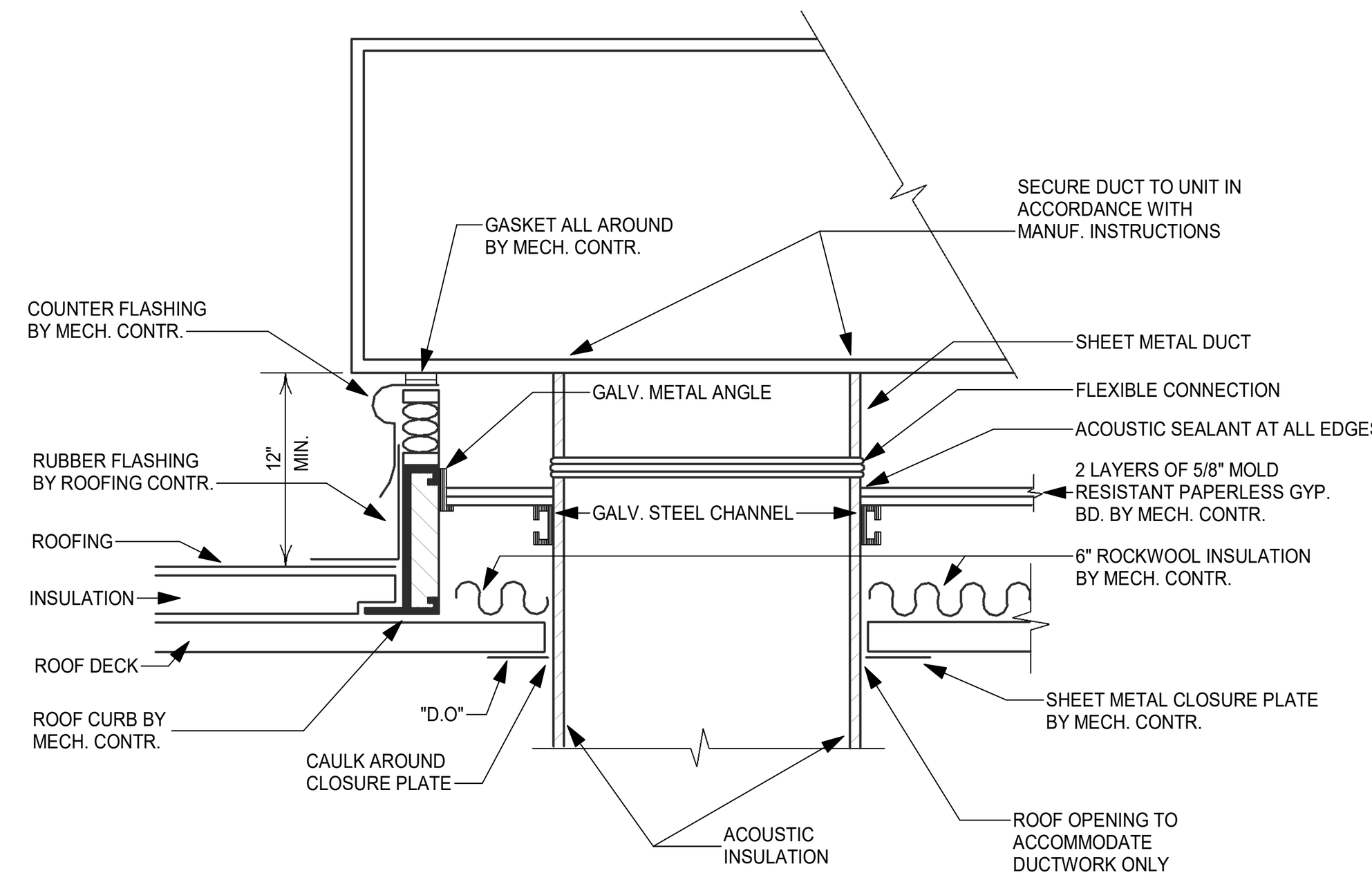
AIR VENT



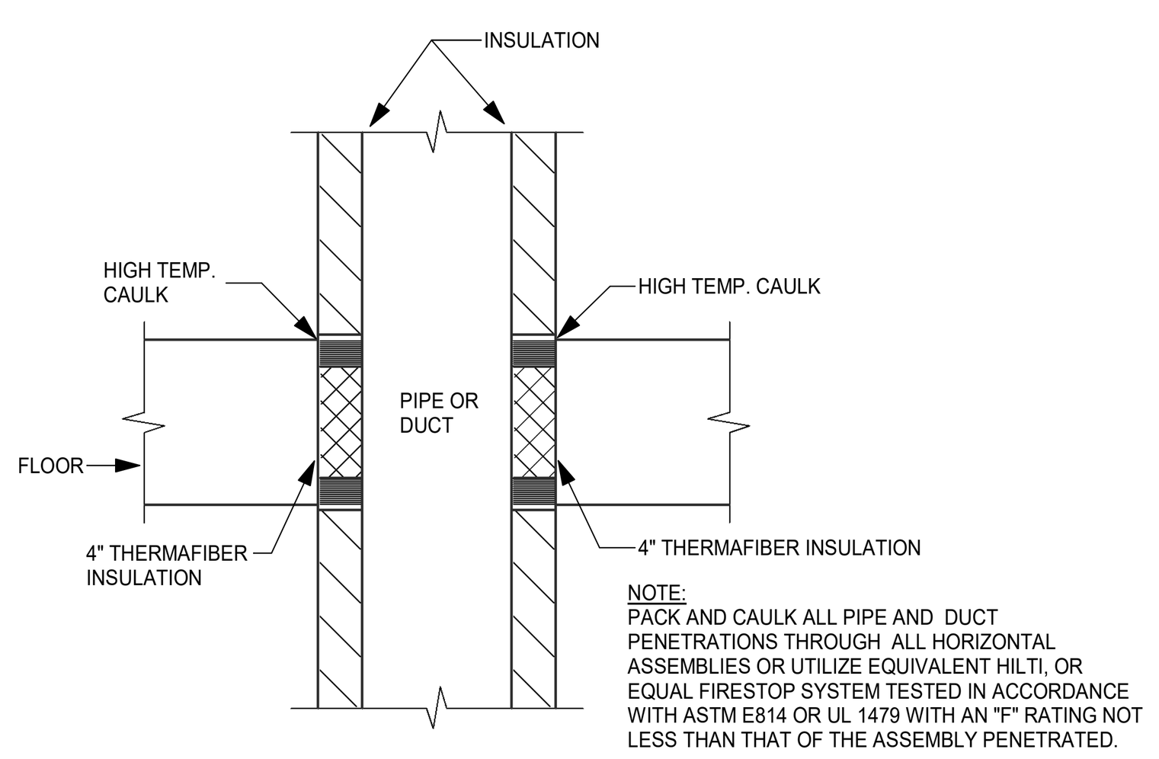
VARIABLE AIR VOLUME BOX HEATING COIL



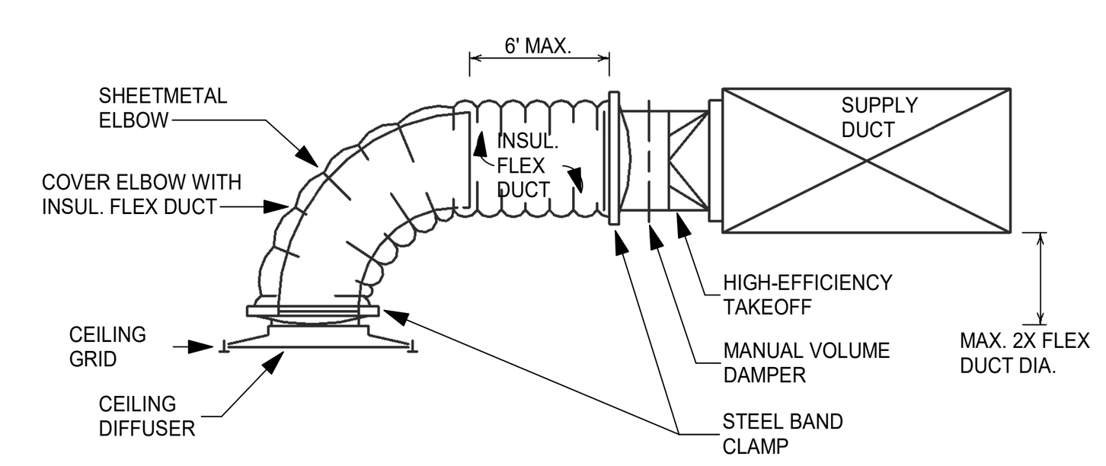
PACK AND CAULK
(RATED WALLS)



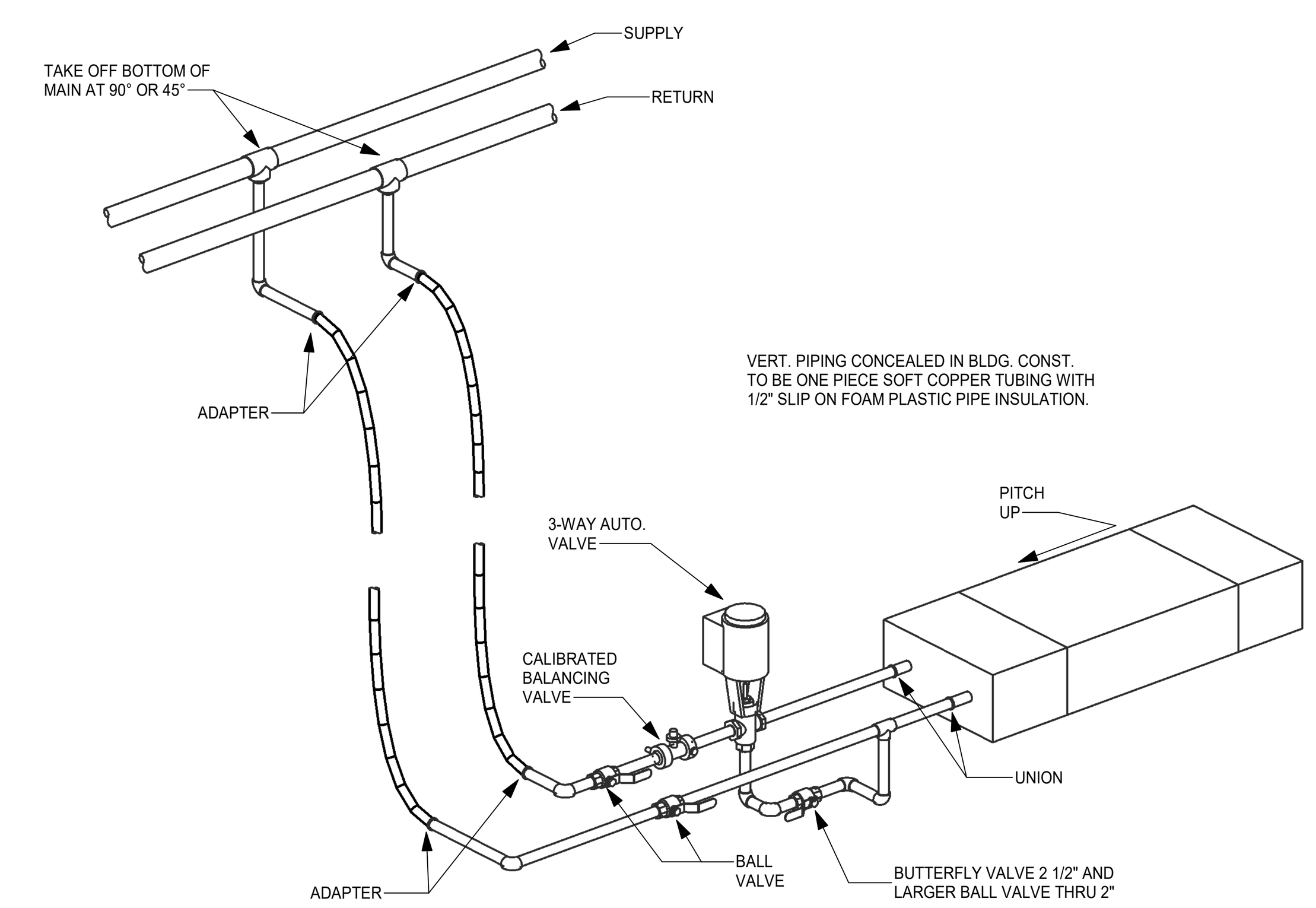
ROOFTOP UNIT
ISOLATION CURB AND DUCT CONN.



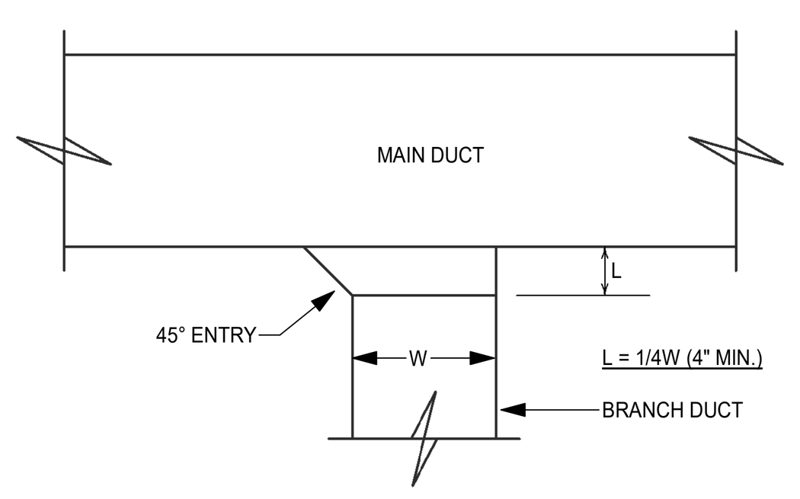
PACK AND CAULK IN
HORIZONTAL ASSEMBLY



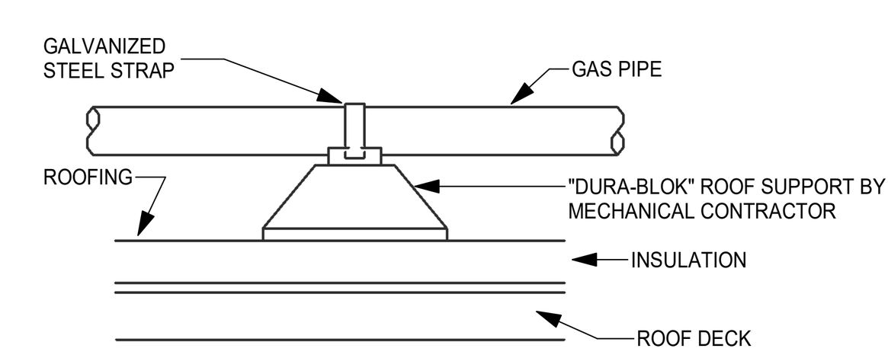
DIFFUSER DETAIL



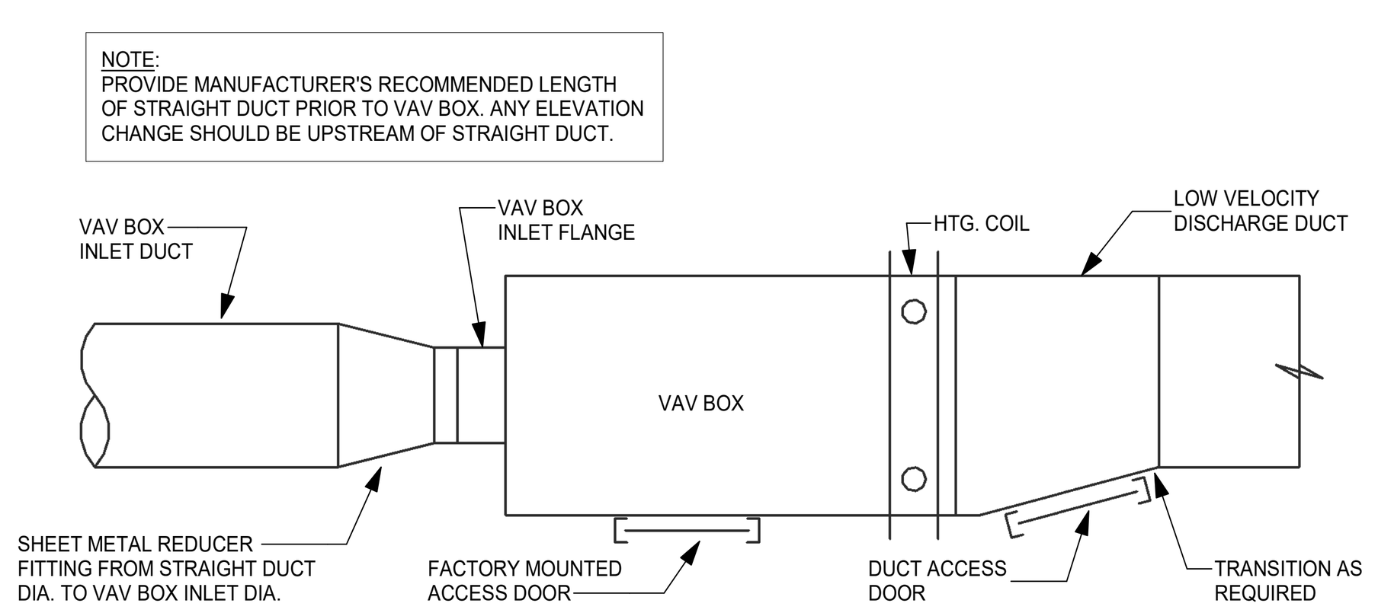
DOWNFEED HOT WATER
CABINET HEATER & CONVECTOR



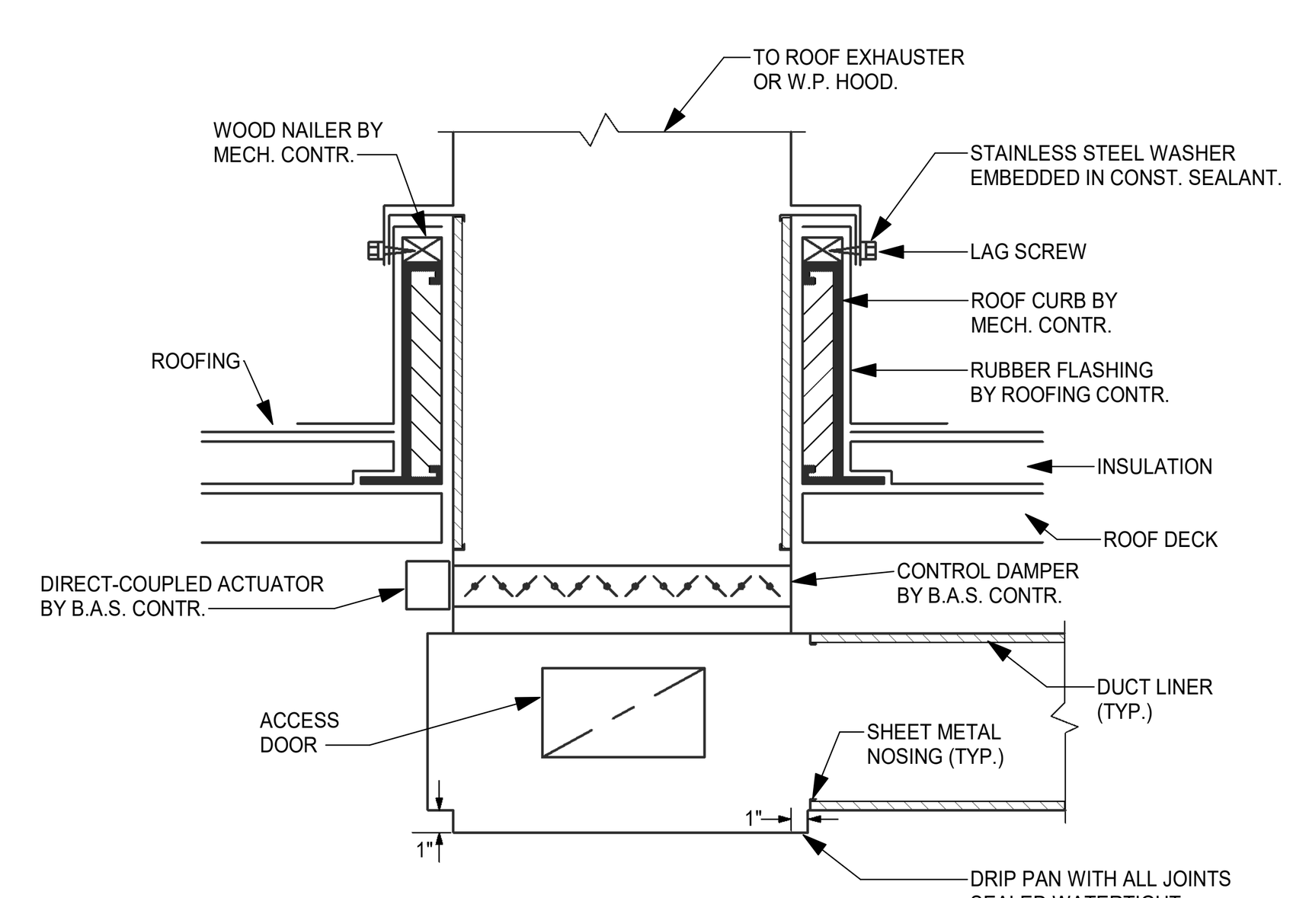
TYPICAL BRANCH CONN.



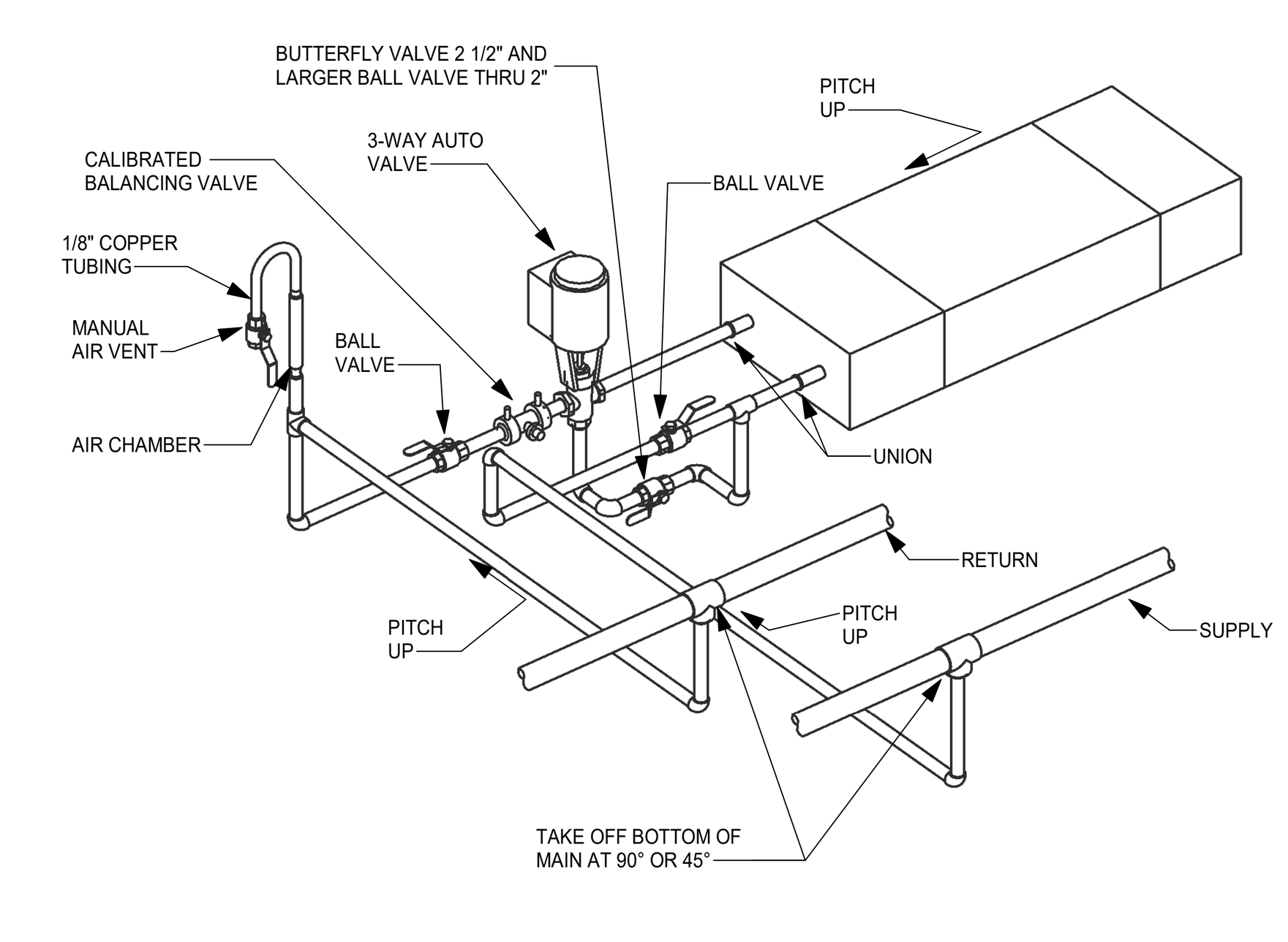
GAS PIPING RUN ABOVE ROOF



VAV BOX DUCT CONNECTIONS



CONDENSATE DRIP PAN



CEILING HUNG HOT WATER
CABINET HEATER

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SCHOOL DISTRICT OF MILTON
CONSOLIDATED - ADDITION & RENOVATION
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REVISIONS:

DETAILS

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: H601

9/13/2019 5:42:20 AM
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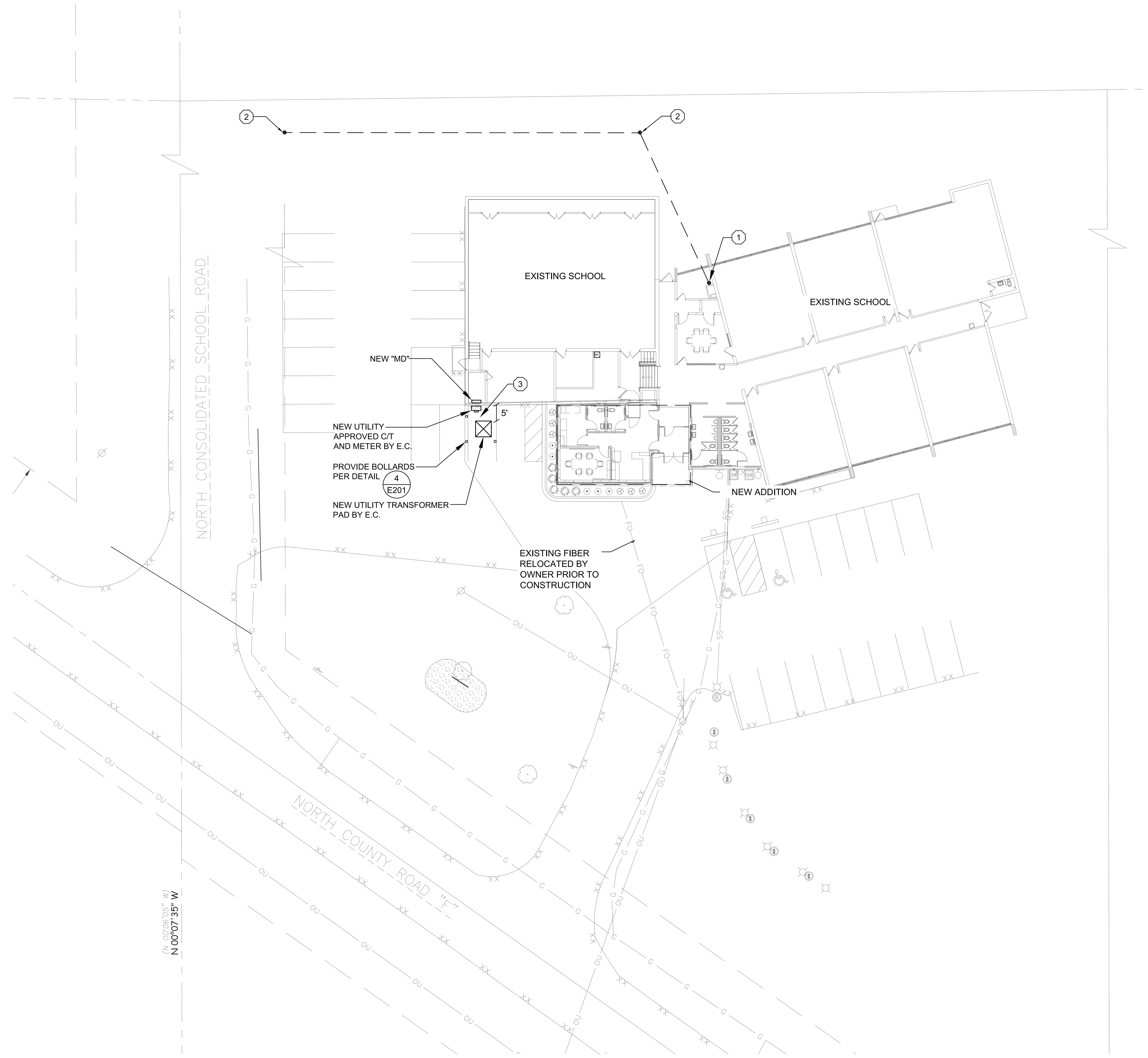
CONSOLIDATED ELEMENTARY FIXTURE SCHEDULE

TYPE	DESCRIPTION	WATTS	LAMP TYPE	LAMP QTY.	MANUFACTURER	CATALOG NUMBER	NOTE
A2	2'x4' LAY-IN LED FLAT PANEL	30	4000K LED	W/ UNIT	METALUX	24FP3140C	
					LITHONIA	EPANL-2X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT	
A2S	2'x4' SURFACE LED FLAT PANEL	30	4000K LED	W/ UNIT	METALUX	24FP3140C-FPSURF24	
					LITHONIA	EPANL-2X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT-2X4SMKSH	
A2E	2'x4' LAY-IN LED FLAT PANEL W/EM OPTION	30	4000K LED	W/ UNIT	METALUX	24FP3140C-EL14W	
					LITHONIA	EPANL-2X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT-E10WCP	
A3	2'x4' LAY-IN LED FLAT PANEL	41	4000K LED	W/ UNIT	METALUX	24FP4740C	
					LITHONIA	EPANL-2X4-4800LM-80CRI-40K-MIN10-ZT-MVOLT	
A3E	2'x4' LAY-IN LED FLAT PANEL W/EM OPTION	41	4000K LED	W/ UNIT	METALUX	24FP4740C-EL14W	
					LITHONIA	EPANL-2X4-4800LM-80CRI-40K-MIN10-ZT-MVOLT-E10WCP	
B2	1'X4' LAY-IN LED FLAT PANEL	26	4000K LED	W/ UNIT	METALUX	14FP2640C	
					LITHONIA	EPANL-1X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT	
B2S	1'X4' SURFACE LED FLAT PANEL	26	4000K LED	W/ UNIT	METALUX	14FP2640C-FPSURF14	
					LITHONIA	EPANL-1X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT-1X4SMKSH	
B2SE	1'X4' SURFACE LED FLAT PANEL W/EM OPTION	26	4000K LED	W/ UNIT	METALUX	14FP2640C-EL14W	
					LITHONIA	EPANL-1X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT-E10WCP	
H1	EXTERIOR THIN SURFACE LED	25	4000K LED	W/ UNIT	TRACELITE	LPC1-LG-V1-4K	2,4
					LEDALUX	OPTX-LPC1-LG-V1-4K	
H2	EXTERIOR LED WALL MTD FLOOD	33	4000K LED	W/ UNIT	MCGRAW EDISON	IST-AF-600-LED-E1-SL3-XX	1
					LITHONIA	WSTLED-P2-40K-VW-MVOLT	
INV	EMERGENCY POWER INVERTER			W/ UNIT	ISOLITE	MPS-32LC-V3-SM	
					IOTA	IIS-35-I	
	UNIVERSAL SINGLE/DOUBLE FACE EXIT WHITE HOUSING RED LETTERS		LED	W/ UNIT	SURELITE	LPX-7	3
					LITHONIA	LQM-S-W-3-R-120/277-EL N	

GENERAL NOTES:
1. ALL FIXTURES SHALL BE 120V UNLESS OTHERWISE NOTED.
2. PROVIDE ELECTRONIC LOW VOLTAGE DIMMER SWITCHES COMPATIBLE WITH LED FIXTURES (0-10V).

SCHEDULE NOTES:
1. VERIFY FINISH WITH ARCHITECT FROM ALL STANDARD OPTIONS AVAILABLE.
2. VERIFY EXACT TRIM RING COLOR WITH ARCHITECT FROM ALL STANDARD OPTIONS PRIOR TO ORDERING.
3. CONTRACTOR TO CONFIRM MOUNTING, DIRECTIONAL INDICATORS, AND FACE REQUIREMENTS PER THE DRAWINGS.
4. EMERGENCY LIGHTING PROVIDED BY INTERTER, SEE FLOOR PLAN FOR LOCATION OF INVERTER.



1 SITE PLAN - ELECTRICAL

NORTH

0 10 20 40

SCALE: 1" = 20'

GENERAL NOTES:
1. UNLESS SHOWN OTHERWISE, ALL CONDUITS BURIED 2'-6" BELOW FINISHED GRADE.
2. E.C. IS RESPONSIBLE FOR ALL WORK REQUIRED TO BRING SITE EXCAVATION AND TOPPING BACK TO ORIGINAL CONDITION IF TRENCHING IS DONE ON COMPACTED SURFACES.

PLAN NOTES: (X)
1. EXISTING OVERHEAD UTILITY FEED TO EXISTING SERVICE IN BASEMENT TO BE REMOVED. REMOVE ALL EXISTING RISER EQUIPMENT AND WIRE. PATCH ALL OPENINGS IN ROOF.
2. EXISTING UTILITY POLES WITH UTILITY OWNED LIGHTING, LOW VOLTAGE WIRE AND ELECTRICAL OVERHEAD LINES TO EXISTING SCHOOL. COORDINATE REMOVAL OF OVERHEAD ELECTRIC SERVICE CONDUCTORS WITH UTILITY.
3. CUT AND PATCH PAVEMENT AS REQUIRED TO ACCOMMODATE NEW UNDERGROUND FEED.

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
E100	SITE PLAN ELECTRICAL
E200	PARTIAL FLOOR PLAN DEMO, LIGHTING & POWER
E201	OVERALL FLOOR PLAN ELECTRICAL & FIRE ALARM
E300	ONE LINE, SCHEDULES
E400	DETAILS

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SITE PLAN ELECTRICAL

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DATE: 09-13-19
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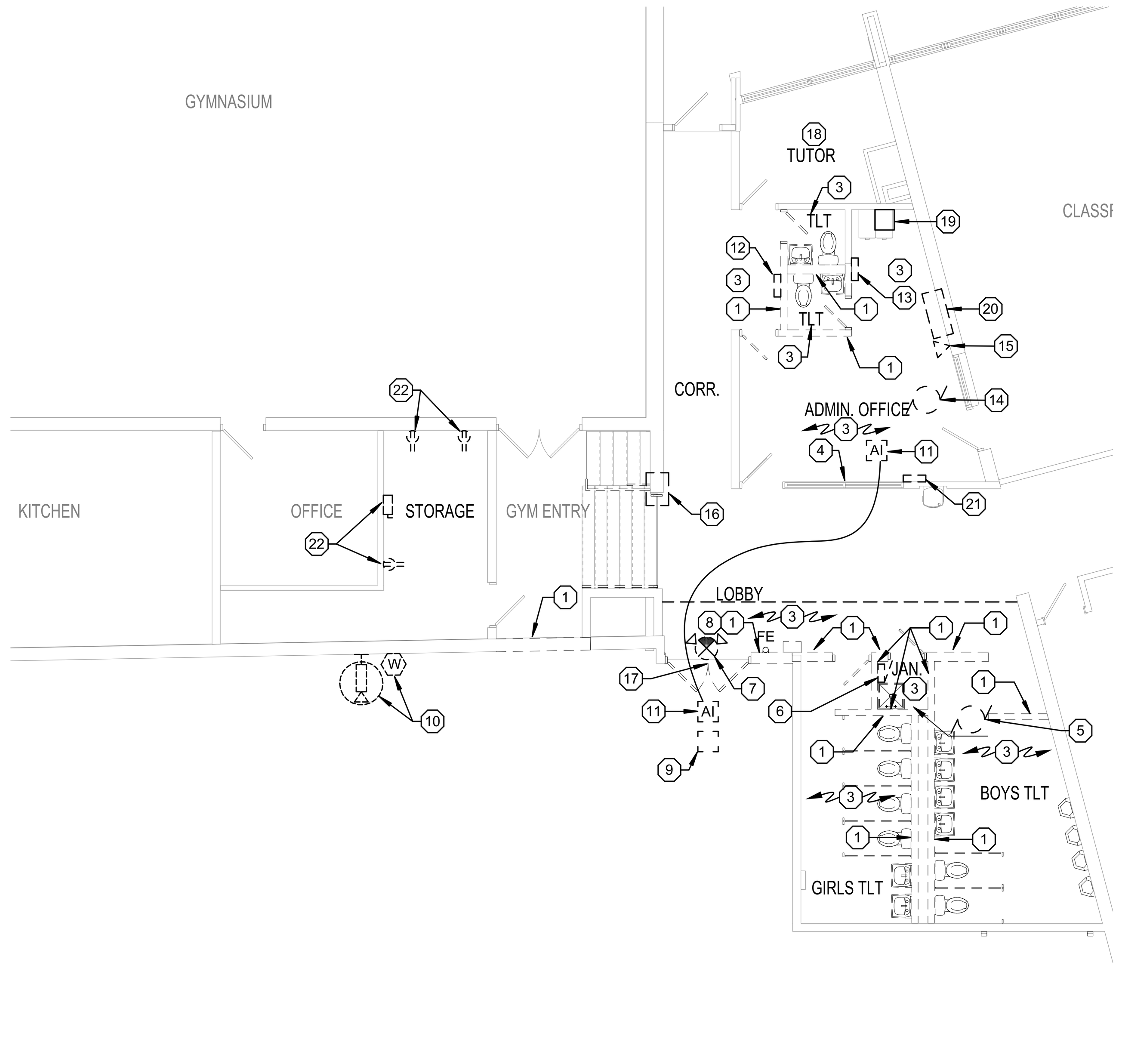
SHEET NO: E100



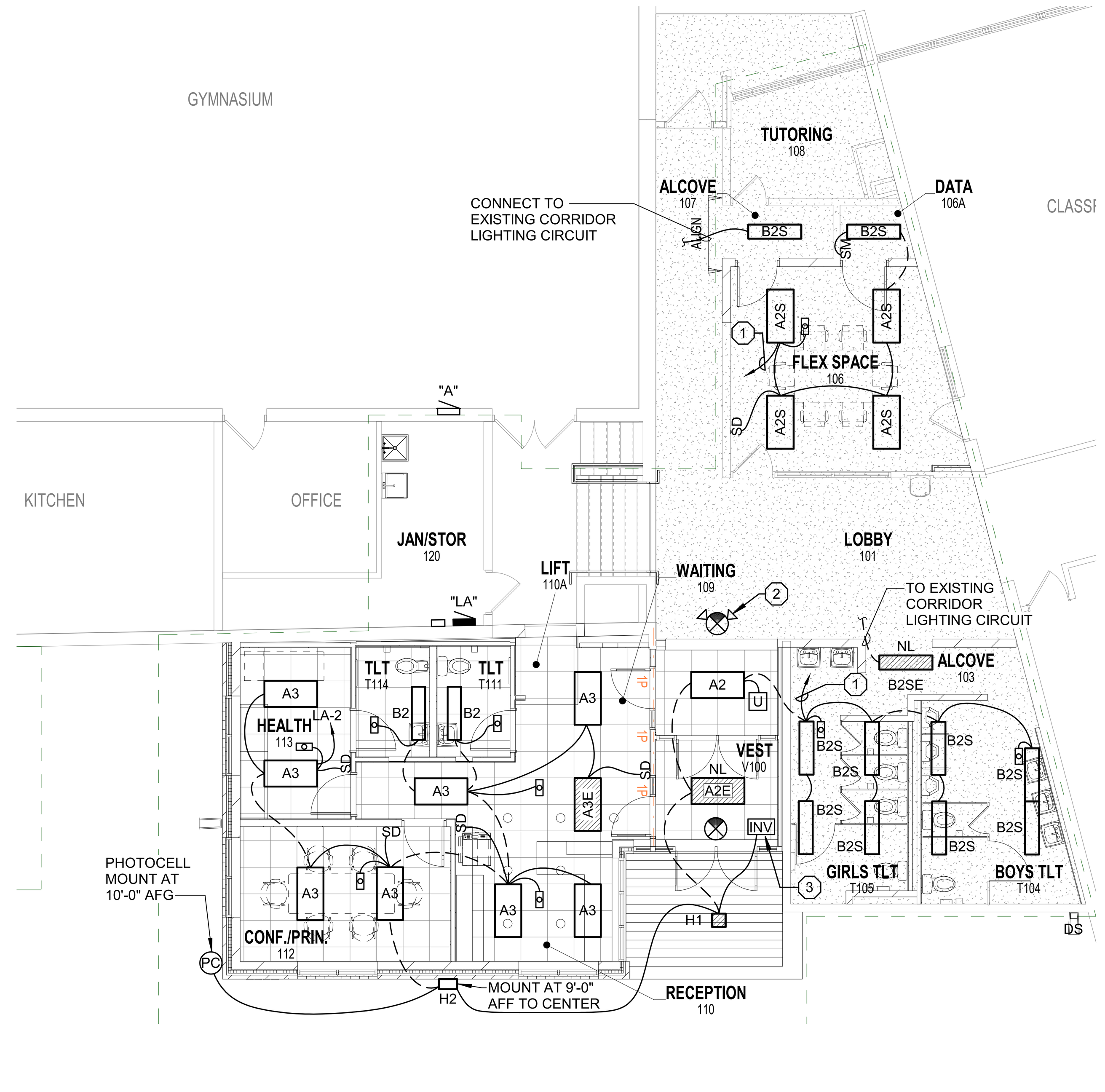
1 FIRST FLOOR PLAN - DEMO
1/8" = 1'-0"

GENERAL NOTES:

1. ALL DEVICES AND EQUIPMENT SHOWN ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PLAN NOTES FOR SPECIFIC WORK REQUIRED.
2. REMOVE ALL DEVICES AND ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END ON EXISTING WALLS AND CEILINGS SCHEDULED TO BE REMOVED. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
3. PROVIDE A BLANK STAINLESS STEEL COVER PLATE ON ALL UNUSED OPENINGS, IN WALLS SCHEDULED TO REMAIN. IF OPENING WILL NOT ACCEPT BLANK PLATE, PATCH WALL TO MATCH EXISTING.
4. REMOVE AND SITE CLEAR ALL REMOVED LIGHT FIXTURES.
5. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. EVALUATE EXISTING CONDITIONS AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EQUIPMENT NEEDED TO ACCOMMODATE DEMOLITION OF EXISTING AREAS.
6. VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT WORK AND BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN PREPARATION OF BID. LACK OF INFORMATION ON EXISTING CONDITIONS WILL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
7. SEE HVAC AND PLUMBING PLANS FOR HVAC AND PLUMBING EQUIPMENT REMOVED. REMOVE ALL EXISTING ELECTRICAL ASSOCIATED WITH REMOVED EQUIPMENT. RE-LABEL CIRCUIT BREAKER AS "SPARE" OR REMOVED IF BREAKER SPACE IS REQUIRED TO ACCOMMODATE NEW LOADS IN EXISTING PANELBOARD.
8. STRAP AND RIGIDLY SUPPORT ALL EXISTING CONDUIT AND BOXES ABOVE LAY-IN CEILINGS SCHEDULED TO REMAIN. VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK.

PLAN NOTES: (X)

1. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING, BOX, AND CONDUIT, IN WALL SCHEDULED TO BE REMOVED, REFEED ANY EXISTING DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
2. DEVICES ON EXISTING WALLS TO REMAIN. REFEED DEVICES ON CIRCUITS ASSOCIATED WITH REMOVED WALLS.
3. REMOVE AND SITE CLEAR ALL EXISTING LIGHTING. SENSORS, AND CONTROLS. PROVIDE NEW LIGHTING AND CONTROLS AS SHOWN ON LIGHTING PLAN.
4. REMOVE OLD EXISTING FIRE ALARM EQUIPMENT.
5. REMOVE EXISTING EXHAUST FAN FEED.
6. REMOVE EXISTING PANEL AND EXTEND ALL FEEDS FROM ABOVE AND BELOW FLOOR TO NEW PANEL "LA".
7. REMOVE AND REINSTALL EXISTING EXIT LIGHT.
8. REMOVE OLD BELL, FIRE ALARM DEVICE, AND HORN. PATCH WALL TO MATCH EXISTING SURFACE.
9. REMOVE EXISTING LED CANOPY FIXTURE AND TURN OVER TO OWNER.
10. REMOVE EXISTING SPEAKER AND CCTV CAMERA AND RELOCATE TO WHERE SHOWN ON NEW PLANS.
11. REMOVE EXISTING AI PHONE EQUIPMENT AND REINSTALL IN NEW OFFICE AND EXTERIOR.
12. REMOVE AND REINSTALL EXISTING KEYLESS ENTRY HEAD AND POWER SUPPLY ON NEW WALL.
13. EXISTING WALL MOUNTED CAREHAWK INTERCOM SYSTEM TO REMAIN.
14. REMOVE EXISTING CEILING FAN.
15. REMOVE EXISTING PHONE CIRCUIT AND EXTEND TO NEW COPIER LOCATION IN OFFICE.
16. REMOVE AND REINSTALL EXISTING CONDUIT AND WIRING TO ACCOMMODATE NEW WALL.
17. REMOVE ELECTRICAL STRIKE AND KEY FOB READER. TURN OVER TO OWNER.
18. REMOVE AND RELOCATE ELECTRICAL TO ACCOMMODATE NEW HVAC PIPING.
19. EXISTING WALL DATA CABINET TO REMAIN.
20. REMOVE ALL ELECTRICAL TO ACCOMMODATE NEW WALL.
21. REMOVE OLD SIEMENS TIME CLOCK, WIRE, AND ALL CONDUIT.
22. REMOVE EXISTING RECEPTACLES, BOXES, CONDUIT AND WIRE.



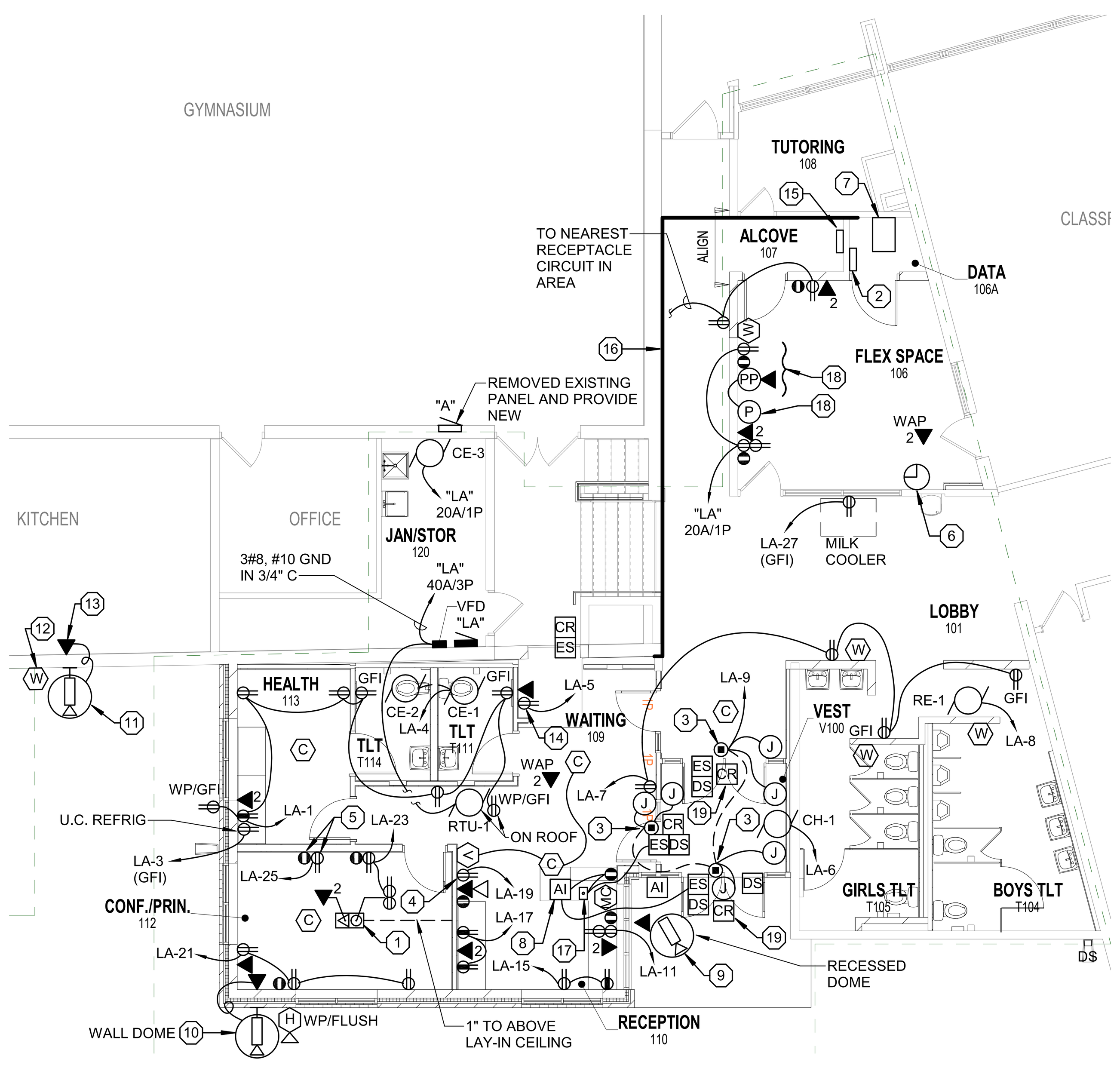
3 FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES:

1. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO EXISTING EXIT LIGHT CIRCUIT IN AREA.
2. SHADED FIXTURE ( ) INDICATES FIXTURE CONNECTED TO EMERGENCY CIRCUIT. NL = NIGHT LIGHT UNSWITCHED.
3. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 1/E400.
4. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.
5. ALL WIRING IN FINISHED AREAS TO BE IN WIREMOLD SURFACE RACEWAY.

PLAN NOTES: (X)

1. REUSE EXISTING LIGHTING CIRCUIT IN ROOM.
2. REINSTALL EXISTING EXIT LIGHT.
3. MOUNT EMERGENCY INVERTER ABOVE LAY-IN CEILING.



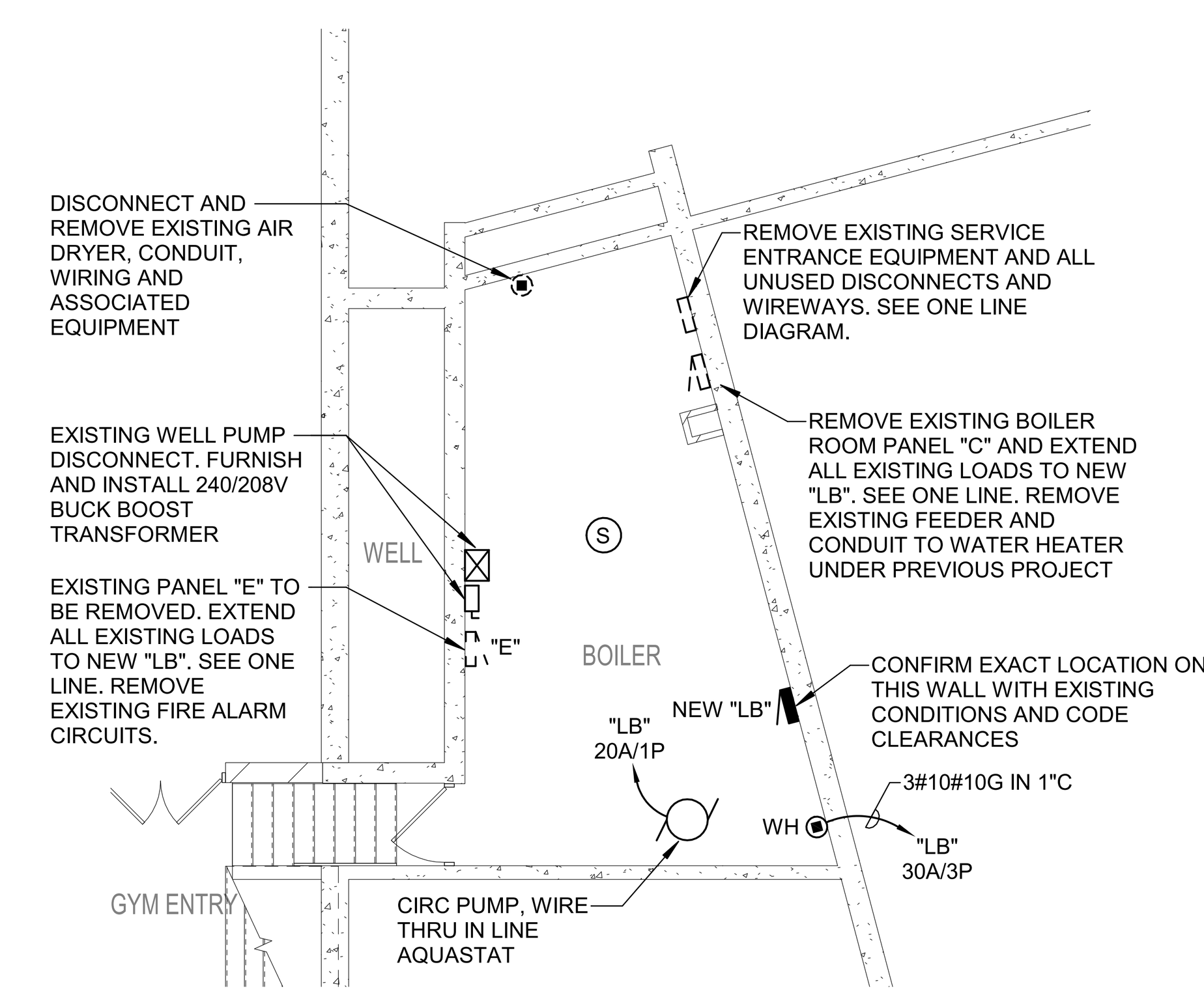
2 FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

GENERAL NOTES:

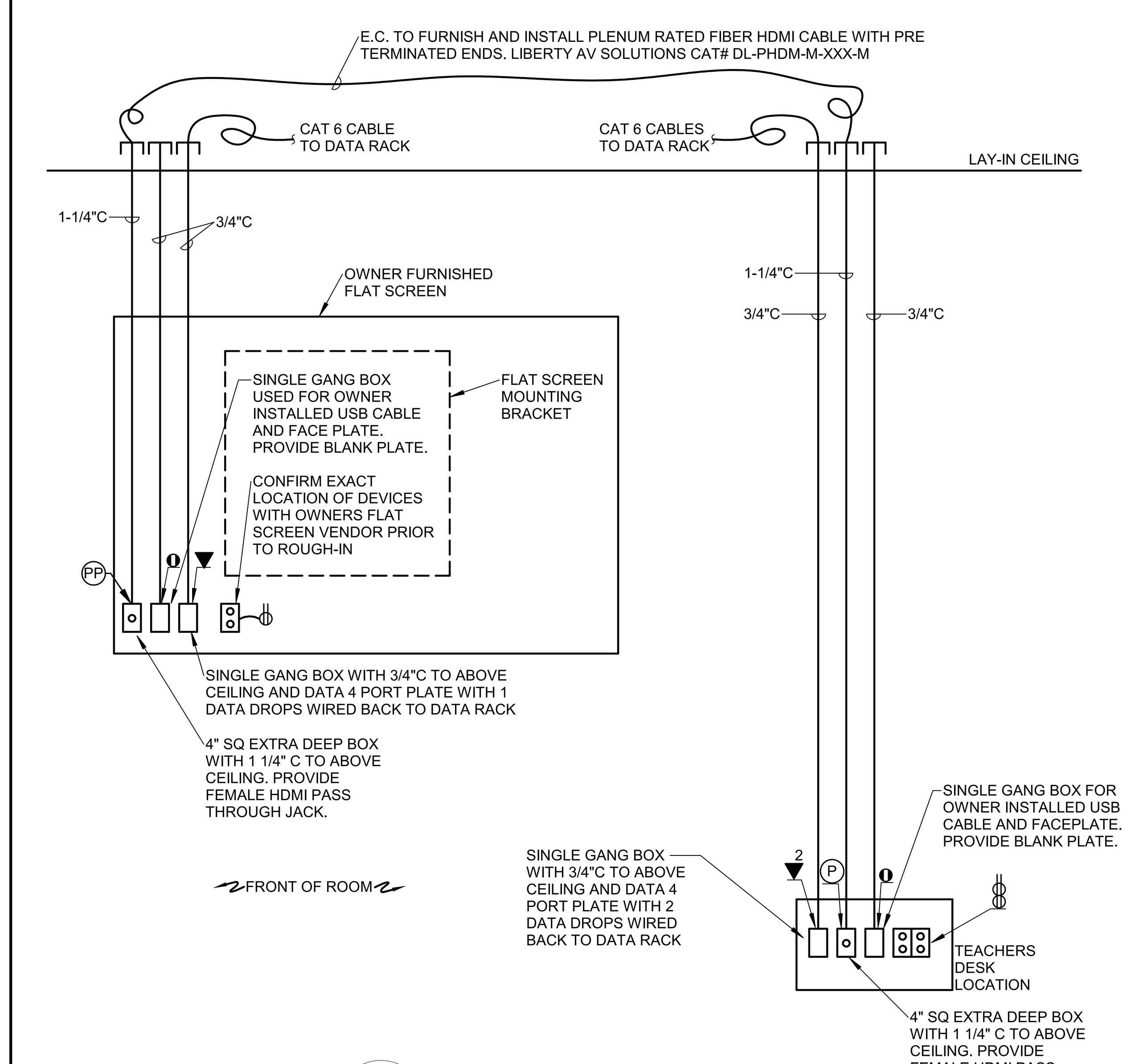
1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 4/E400.
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 2/E400.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 2" DIRECTLY ABOVE BACKSPLASH TO BOTTOM OF PLATE.
7. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

PLAN NOTES: (X)

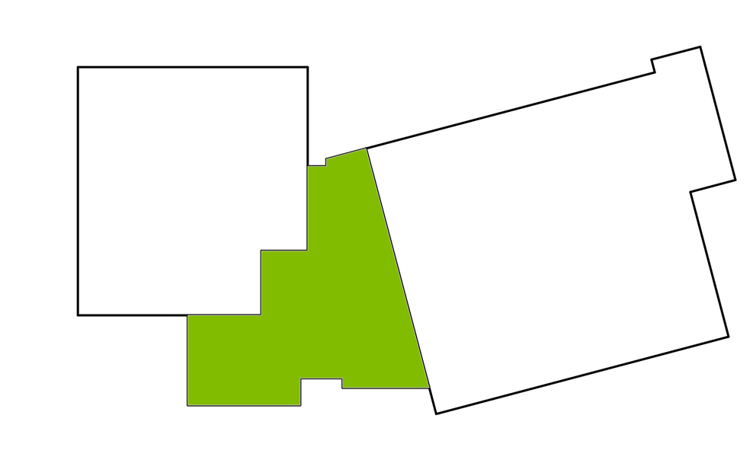
1. PROVIDE RFB TYPE FLOOR BOX WITH 1"C FOR DATA AND 1"C FOR SPARE AND SEPARATE CONDUIT FOR POWER. STUB SPARE CONDUIT TO NEAREST ACCESSIBLE CEILING. PROVIDE DEVICES AS SHOWN.
2. EXISTING CAREHAWK INTERCOM SYSTEM TO REMAIN. ROUTE NEW DEVICE WIRING TO NEW RACK.
3. PROVIDE 120V CONNECTION TO POWER ASSISTED DOOR OPERATORS (FBO). PROVIDE ALL WIRING FROM OPERATORS TO PUSH BUTTONS. PROVIDE ROUGH-IN'S AS SPECIFIED BY SUPPLIER IN FOUR LOCATIONS AS SHOWN AS (J) ON PLANS. MOUNT UP 40" AFF. WIRE HANDICAP DOORS TO OPEN IF CARD IS PRESENTED TO CARD READER ON INSIDE DOOR PUSH BUTTON ONLY. WIRE HANDICAP DOOR TO AUTO OPEN IF AI PHONE FROM DESK ACTUATOR OR CARD IS PRESENTED ON INSIDE DOOR PUSH BUTTON ONLY. COORDINATE EXISTING WIRING CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.
4. COPIER OUTLET. CONTRACTOR TO VERIFY EXACT PLUG LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE APPROPRIATE CIRCUIT BREAKER AND OUTLET.
5. MOUNT AT 5'-0" FOR OWNER PROVIDED FLAT SCREEN.
6. REMOVE AND REINSTALL EXISTING CLOCK.
7. EXISTING DATA RACK TO REMAIN. ROUTE NEW CAT 6 DATA CABLES TO NEW RACK MOUNTED CAT6 PATCH PANEL. COORDINATE LOCATION OF PATCH PANEL WITH IT DEPARTMENT PRIOR TO INSTALLATION.
8. RELOCATE EXISTING AI PHONE EQUIPMENT. INSTALL SINGLE GANG BOX BELOW COUNTER WITH FLUSH CONDUIT TO ABOVE CEILING AND TO EXTERIOR AI PHONE LOCATION. PROVIDE ALL NEW PLENUM.
9. NEW UNDER SOFFIT DOME CAMERA PROVIDE NEW DATA CABLE ROUTED TO EXISTING DATA RACK.
10. NEW WALL MOUNTED CCTV CAMERA. PROVIDE NEW DATA CABLE TO EXISTING DATA RACK.
11. RELOCATE EXISTING CCTV CAMERA.
12. RELOCATE AND EXTEND EXISTING WALL SPEAKER AND WIRING.
13. PROVIDE NEW DATA CABLE BACK TO EXISTING RACK.
14. PROVIDE CONNECTION TO LIFT. VERIFY EXACT ROUGH-IN AND POWER REQUIREMENTS WITH EQUIPMENT. PROVIDE ALL INTERCONNECT WIRING TO LOWER DOOR PER MANUFACTURERS REQUIREMENTS. INTERFACE KEYLESS ENTRY CONTROLS WITH MANUFACTURER.
15. REINSTALL EXISTING GLOBAL COM HEAD END SYSTEM, POWER SUPPLY AND CIRCUIT. ALL WIRING TO BE CONCEALED IN CONDUIT. EXTEND OR PROVIDE NEW WIRING TO EXISTING EQUIPMENT.
16. PROVIDE WIREMOLD SURFACE RACEWAY FOR ROUTING LOW VOLTAGE CABLE TO EXISTING RACK. ALL LOW VOLTAGE CABLING TO BE CONCEALED.
17. PROVIDE CAMDEN PUSH BUTTON TO RELEASE STRIKE SHOWN, PROVIDE ALL ROUGH-IN'S CONCEALED IN CASEWORK.
18. SEE DETAIL 6/E200 FOR RECEPTACLE, DATA, HDMI AND USB DEVICES.
19. COORDINATE DISCONNECT OF DOOR WIRING WITH DOOR EQUIPMENT IF MULLIONS ARE REMOVABLE.



4 LOWER LEVEL - BOILER ROOM - ELECTRICAL
1/8" = 1'-0"



6/E200 MEDIA DELIVERY WIRING DETAIL
SCALE: NTS



KEY PLAN

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SCHOOL DISTRICT OF MILTON CONSOLIDATED - ADDITION & RENOVATION

4838 NORTH COUNTY ROAD F, JANESVILLE, WI 53545

REVISIONS:

PARTIAL FLOOR PLAN DEMO, LIGHTING & POWER

CONSTRUCTION DOCUMENTS
BID PACKAGE:
DATE: 09-13-19
JOB NO: 190106-06
SHEET NO: E200

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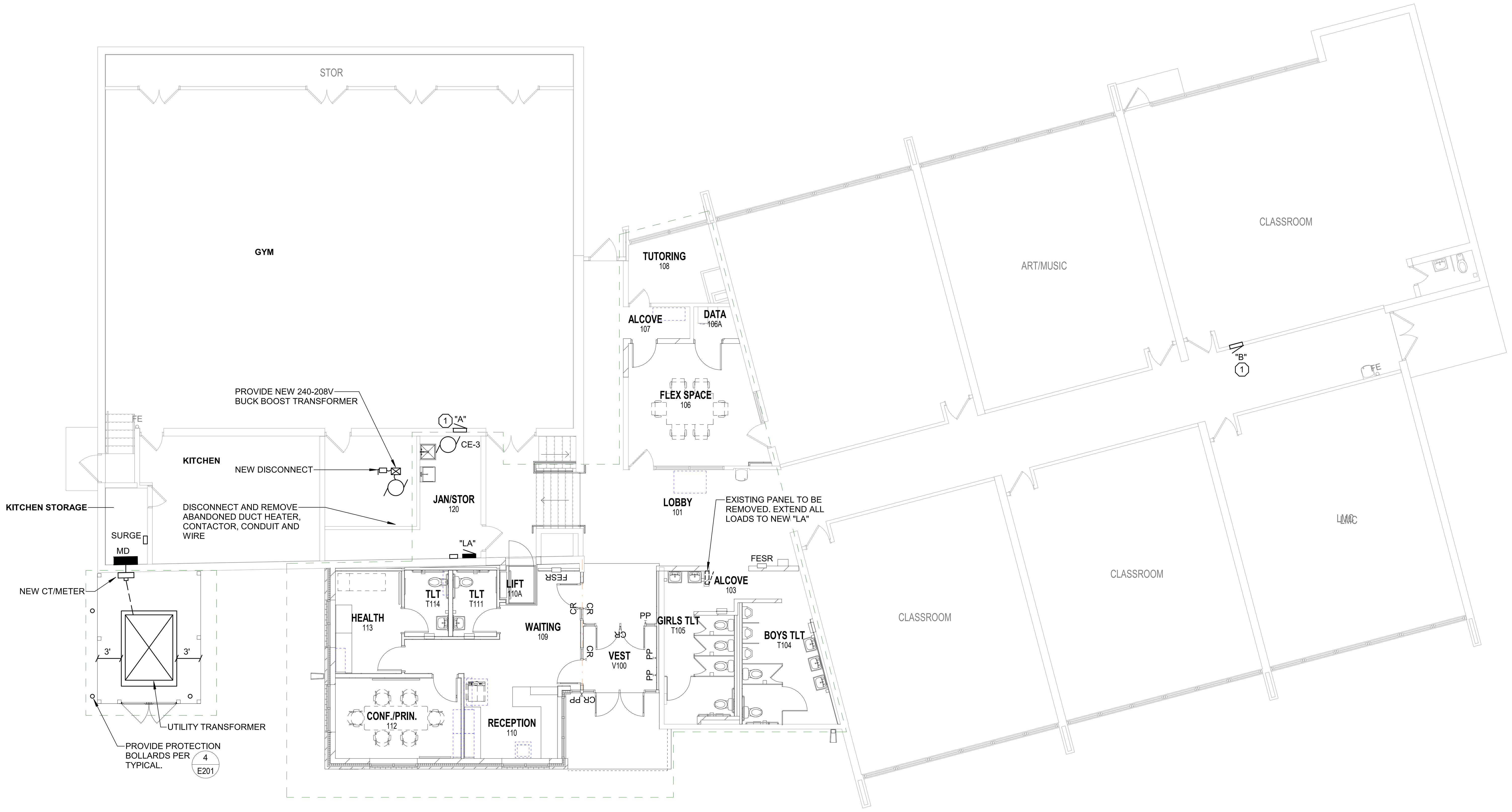
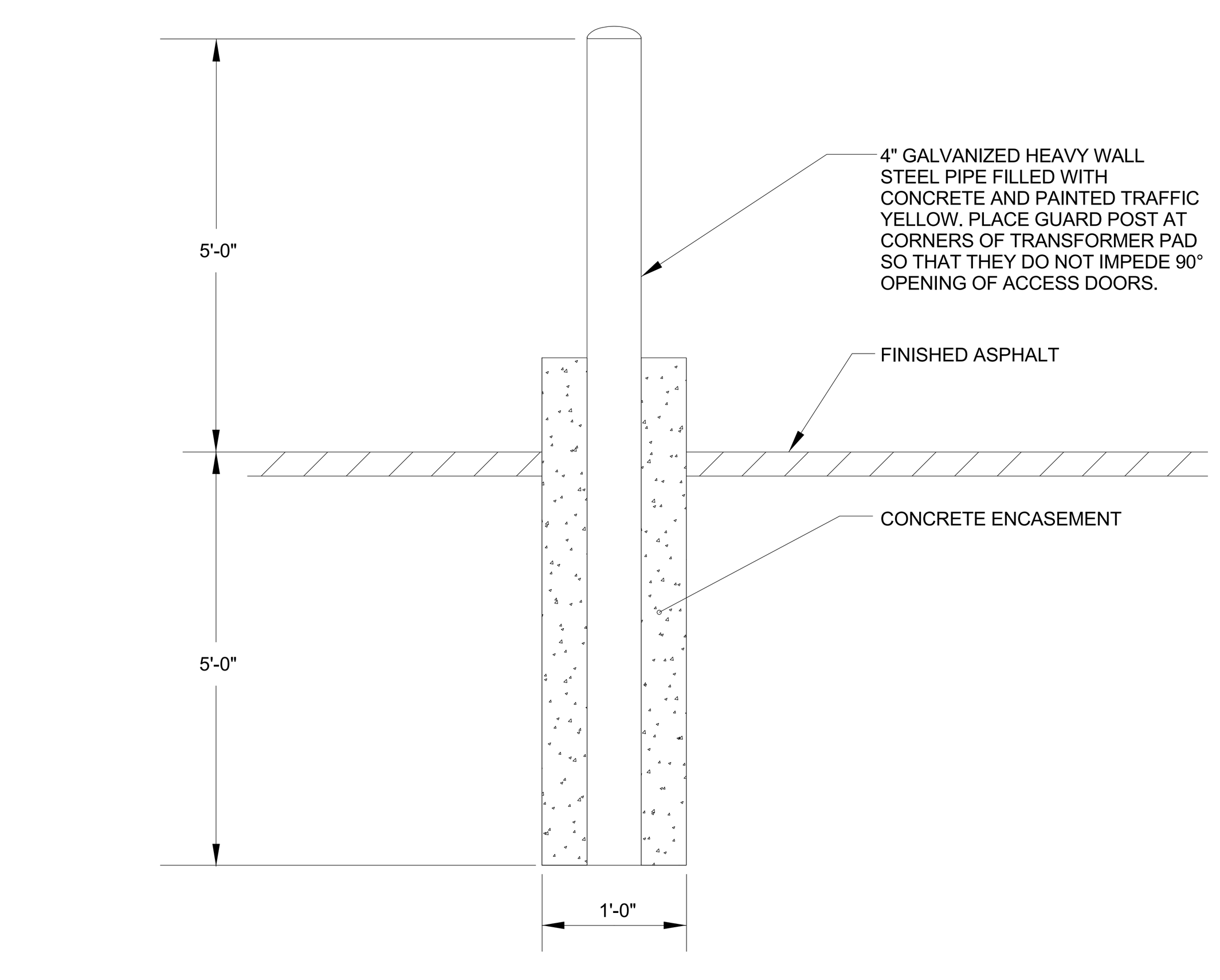


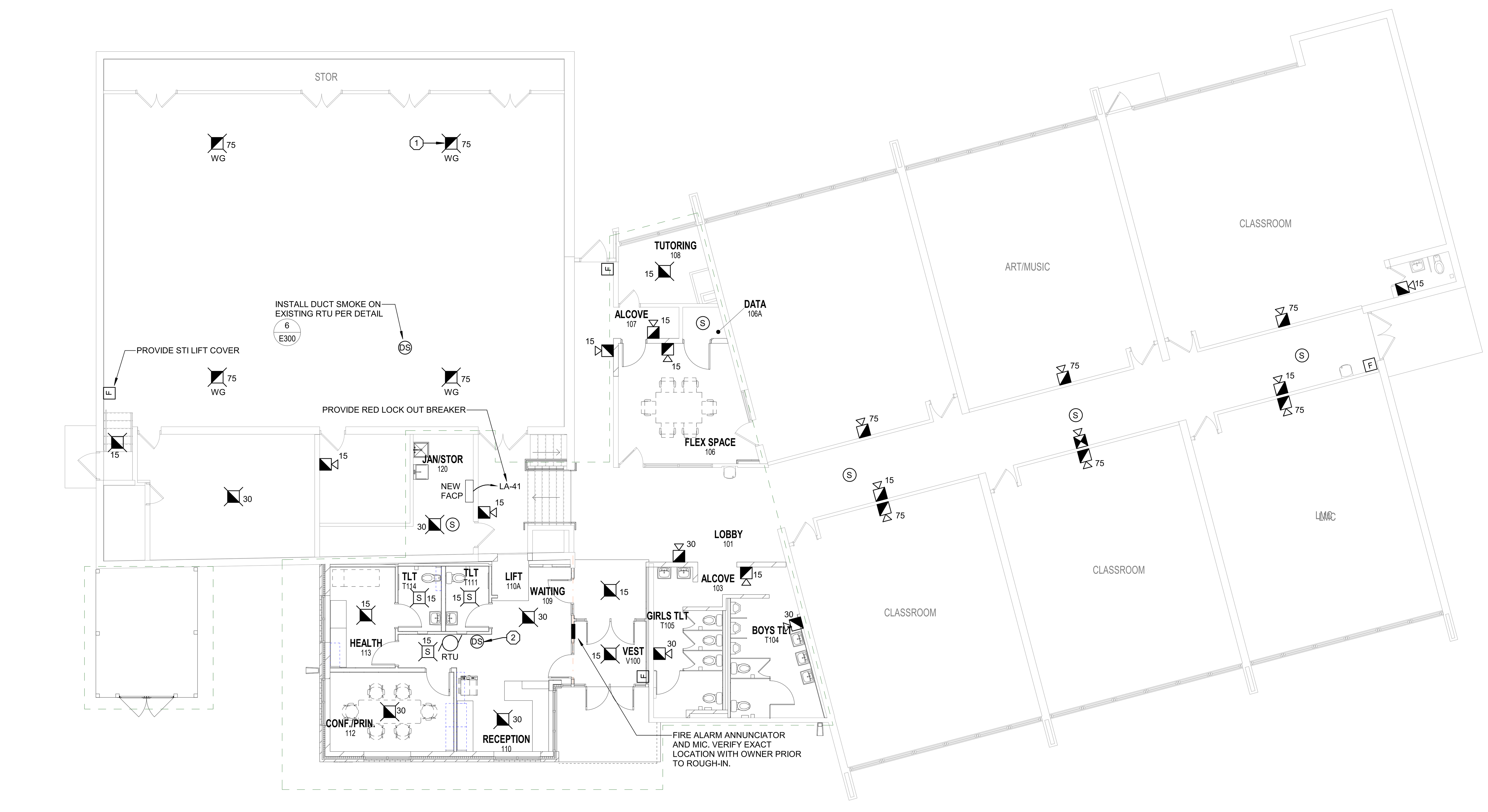
1 FIRST FLOOR OVERALL ELECTRICAL
1/8" = 1'-0"

PLAN NOTES: (X)

1. EXISTING PANEL TO BE REMOVED AND A NEW INSTALLED IN SAME LOCATION. EXTEND ALL LOADS TO NEW PANEL AND PROVIDE NEW BREAKERS. SEE ONE LINE.



4 E201 PROTECTION BOLLARD DETAIL
SCALE: NTS



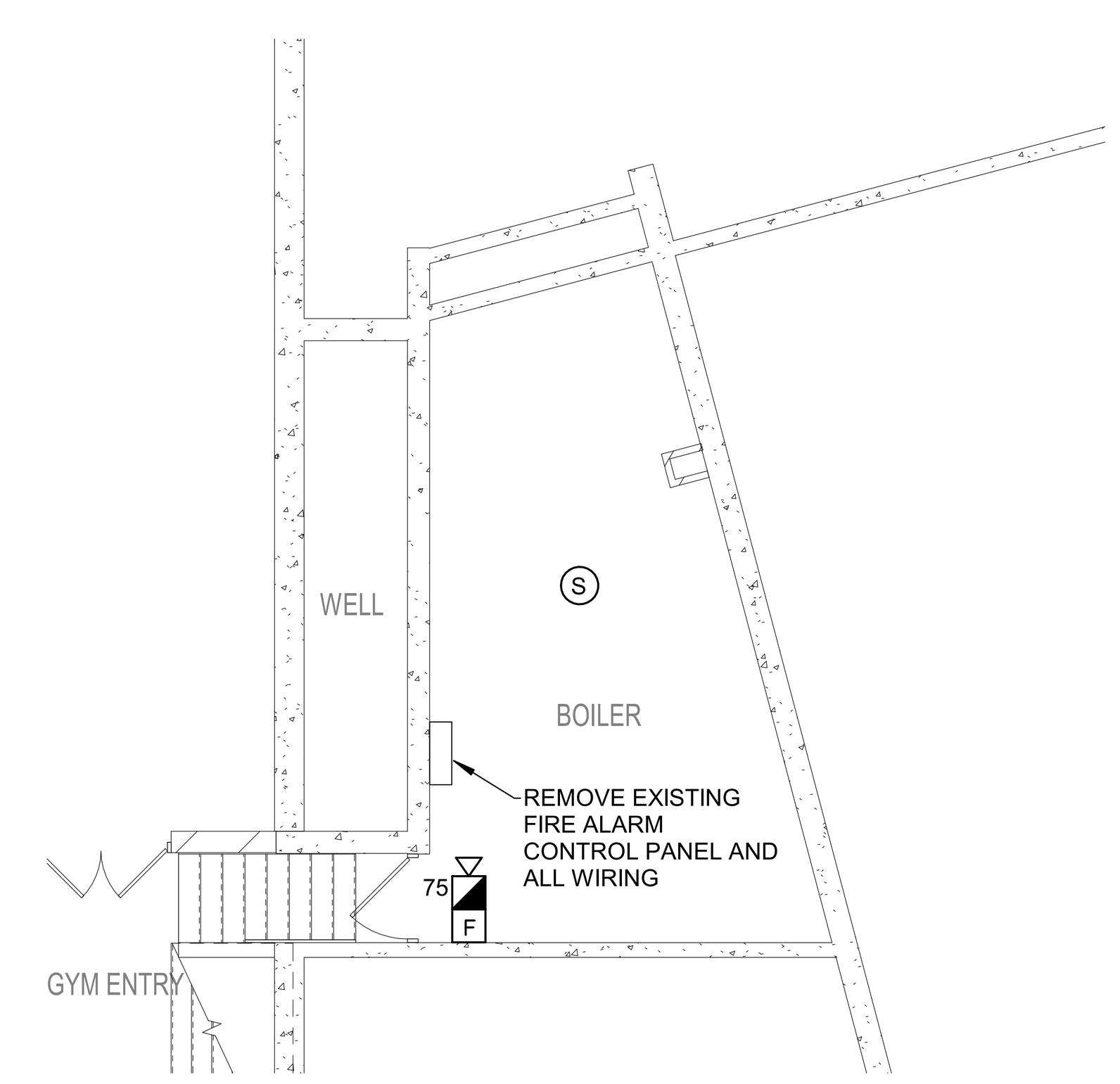
2 FIRST FLOOR OVERALL VOICE ANNUNCIATED FIRE ALARM
1/8" = 1'-0"

GENERAL NOTES:

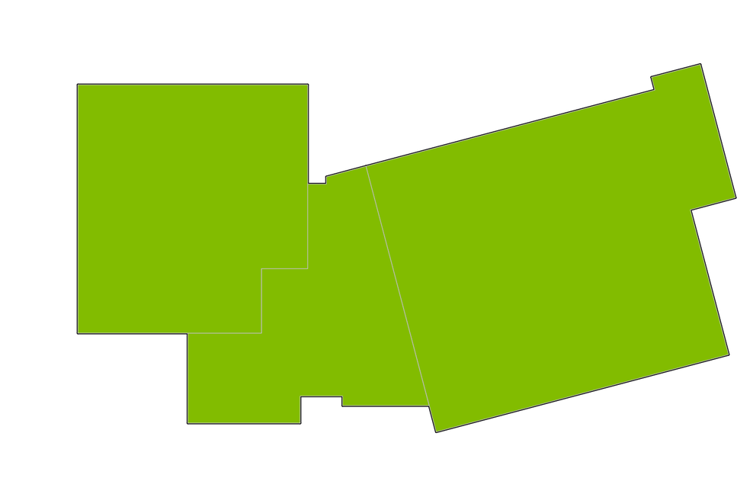
1. ALL DEVICES SHOWN THIS SHEET ARE APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS ON SITE TO ACCOMMODATE FURNITURE, LIGHT FIXTURES, ETC. ENSURE STROBE COVERAGE REQUIRED BY NFPA 72 IS MAINTAINED IF STROBES ARE RELOCATED FOR COORDINATION.
2. ALL FIRE ALARM CABLING SHALL BE SUPPORTED SEPARATELY FROM OTHER LOW VOLTAGE CABLING ABOVE LAY-IN CEILINGS. FIRE ALARM WIRING IN AREAS WHERE THERE IS NO LAY-IN CEILINGS SHALL BE IN SURFACE METAL RACEWAY, WIREMOLD OR EQUAL IN CORRIDORS, CLASSROOMS, AND OFFICES.
3. SEE DETAIL 5/E400 FOR INSTALLATION DETAILS.
4. LOCATE SMOKE DETECTOR MINIMUM 3'-0" FROM HVAC DIFFUSERS. ENSURE COVERAGE IS MAINTAINED IF SMOKES ARE RELOCATED FOR COORDINATION.
5. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR FIRE ALARM HORN AND STROBE DEVICES.
6. ALL DEVICES IN MECHANICAL ROOMS SHALL BE LAID OUT ON-SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN THE ROOM.
7. REMOVE AND SITE CLEAR ALL EXISTING FIRE ALARM DEVICES, EQUIPMENT AND WIRING. PROVIDE STAINLESS STEEL BLANK PLATE OVER EXISTING OPENING.
8. SEE ALTERNATE BID LISTING.
9. REMOVE ALL EXISTING FIRE ALARM EQUIPMENT TO INCLUDE DEVICES, HEAD END, CABLING, CONDUIT AND BOXES. MOUNT ALL NEW DEVICES WHERE SHOWN ON FIRE ALARM PLANS. PROVIDE BLANK PLATE FOR SINGLE GANG BOXES. PATCH WALL TO MATCH EXISTING SURFACES OVER BOXES 2-GANG OR LARGER. SYSTEM DEMO MUST BE PHASED TO ACCOMMODATE G.C. SCHEDULE.

PLAN NOTES: (X)

1. MOUNT TO BOTTOM OF JOIST FACING FLOOR. ALL DEVICES IN CONDUIT IN GYM AREA. PAINT CONDUIT TO MATCH EXISTING SURFACES.
2. PROVIDE DUCT SMOKE PER DETAIL 6/E300.



3 LOWER LEVEL - BOILER ROOM - FIRE ALARM
1/8" = 1'-0"



KEY PLAN

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REVISIONS:

OVERALL FLOOR PLAN ELECTRICAL & FIRE ALARM

CONSTRUCTION DOCUMENTS
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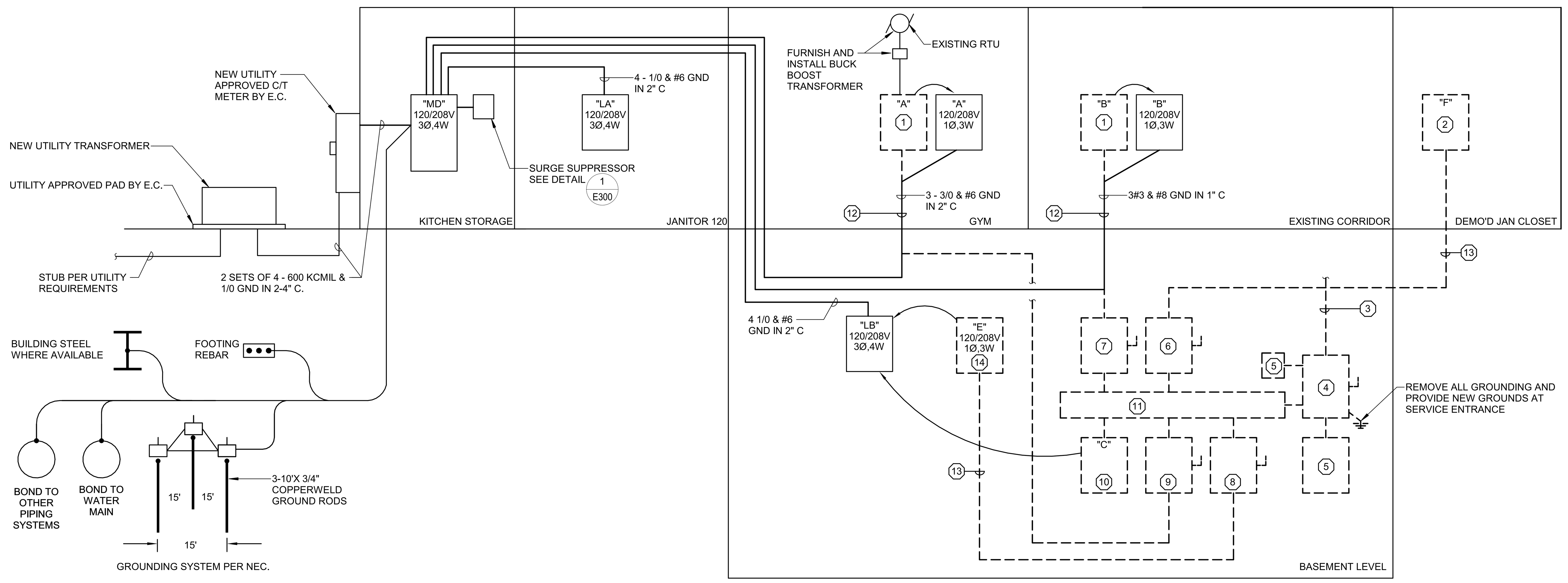


CONSOLIDATED ELEMENTARY SCHOOL ONE LINE DIAGRAM 1,200A 120/208V 3Ø, 4W

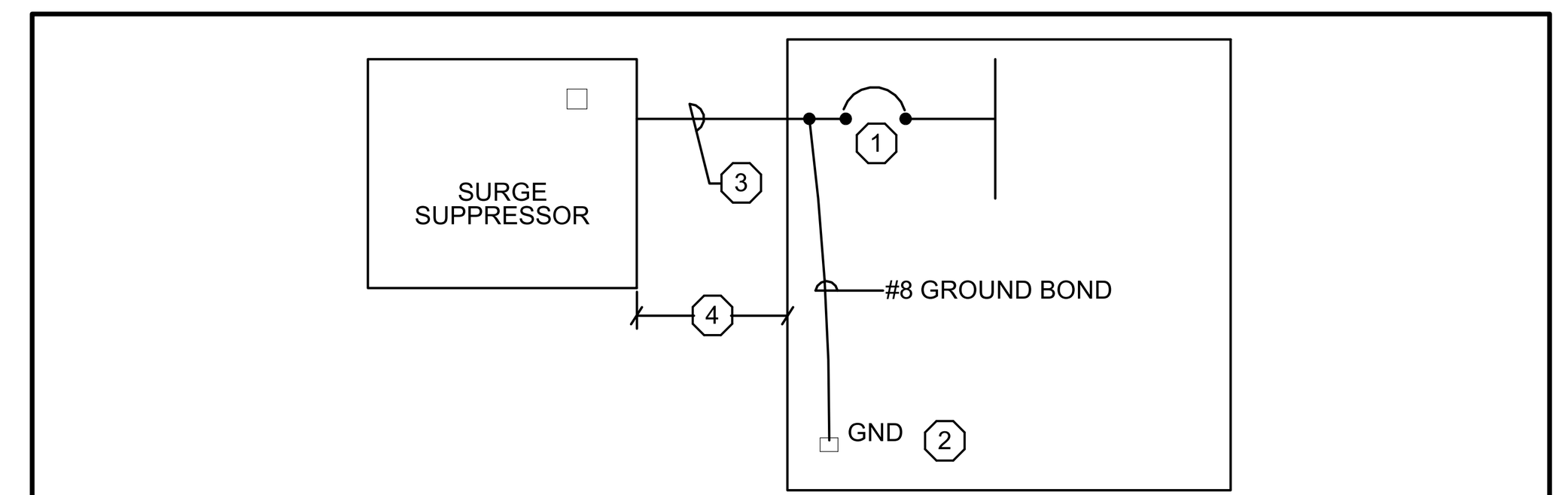
NTS

GENERAL NOTES:

1. LINETYPE LEGEND
   - NEW EQUIPMENT OR WIRING
   - DEMOLISHED EQUIPMENT OR WIRING

PLAN NOTES: (X)

1. REMOVE EXISTING PANEL AND PROVIDE NEW IN SAME LOCATION. PROVIDE NEW FEED TO NEW SERVICE LOCATION. EXTEND ALL LOADS TO NEW BREAKERS.
2. EXISTING PANEL IN DEMOLISHED TOILET AREA. INTERCEPT EXISTING UNDERGROUND BRANCH CIRCUITS AND EXTEND ALL CIRCUITS NOT AFFECTED BY REMODEL TO NEW LA PANEL.
3. REMOVE EXISTING SERVICE ENTRANCE RISER, PRESENTLY ROUTED UP THROUGH ROOF AND OVERHEAD TO UTILITY POLE(S). PATCH ROOF.
4. REMOVE EXISTING 400A, 240/120V, 1-PHASE SERVICE ENTRANCE DISCONNECT SWITCH.
5. REMOVE EXISTING UTILITY METERING EQUIPMENT.
6. REMOVE EXISTING 100A, 240/120V, 1-PHASE DISCONNECT SWITCH FEEDING EXISTING PANEL "F".
7. REMOVE EXISTING 100A, 240/120V, 1-PHASE DISCONNECT SWITCH FEEDING EXISTING PANEL "B".
8. REMOVE EXISTING 60A, 240/120V, 1-PHASE DISCONNECT SWITCH FEEDING EXISTING PANEL "E".
9. REMOVE EXISTING 200A, 240/120V, 1-PHASE DISCONNECT SWITCH FEEDING EXISTING PANEL "A".
10. REMOVE EXISTING 100A, 240/120V, 1-PHASE, 12-CKT PANELBOARD "C". EXTEND ALL EXISTING LOADS TO NEW PANEL "LB".
11. REMOVE EXISTING WIREWAY AND ALL ASSOCIATED CONDUIT AND WIRING.
12. REMOVE EXISTING FEEDER WIRING. MODIFY EXISTING CONDUITS TO REFEED PANEL FROM NEW "MD". INTERCEPT EXISTING CONDUITS IN BOILER ROOM.
13. REMOVE EXISTING FEEDER CONDUIT AND WIRING.
14. REMOVE EXISTING PANEL E, 240/208 1 PHASE AND EXTEND ALL LOADS TO NEW PANEL "LB".

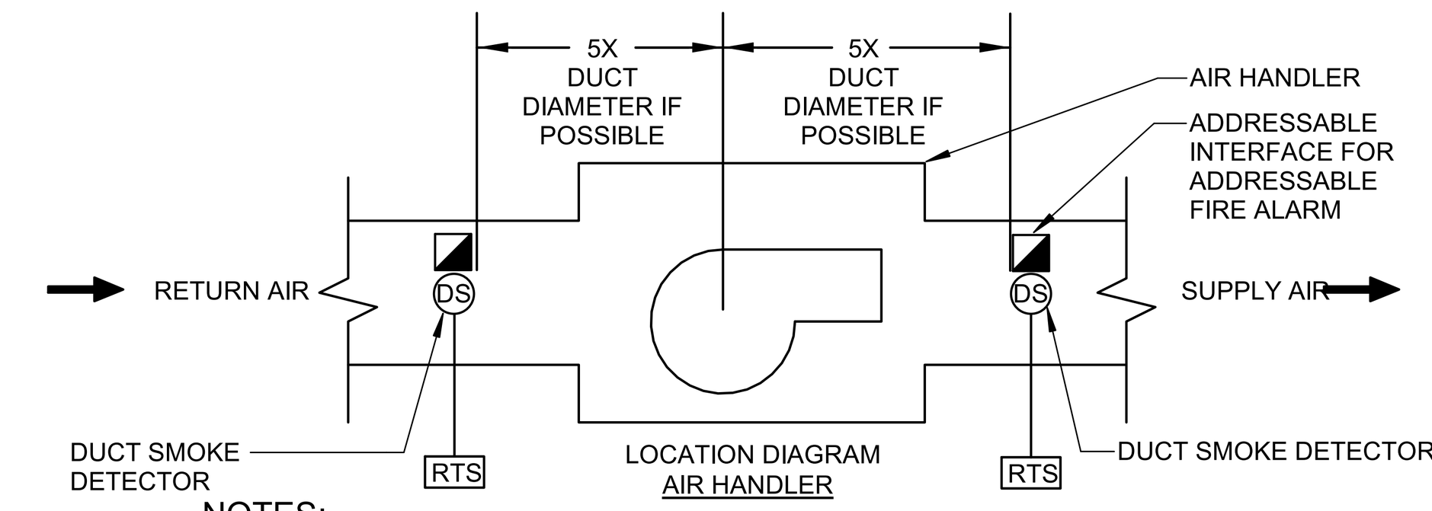


KEY NOTES: (X)

1. PROVIDE 60 AMP 3P CURRENT LIMITING BREAKER IN MAIN SERVICE PANEL.
2. MAIN SERVICE PANEL OR DISTRIBUTION PANEL, SEE DRAWINGS.
3. 4#6 & #6 GND. IN 1 1/4" CONDUIT FOR 60 AMP MAIN SERVICE SUPPRESSION
4. CONDUIT AND FEEDER DISTANCE NOT TO EXCEED 5 FEET.

1/E300 SURGE SUPRESSION CONNECTION

SCALE: NTS



NOTES:

1. WIRE INTO HVAC CONTROL PANEL OR STARTER TO SHUT DOWN AIR HANDLER IN THE EVENT SMOKE IS DETECTED. PROVIDE WRITTEN STATEMENT TO ARCHITECT THAT THE SYSTEM WAS TESTED AND OPERATES CORRECTLY.
2. MOUNT REMOTE TEST STATION ON NEAREST WALL THAT PROVIDES ACCESS. IN INSTALLATIONS WHERE TWO OR MORE AHU'S ARE INSTALLED TOGETHER, MOUNT ALL TEST SWITCHES IN ONE AREA.
3. IF ONLY ONE (DS) IS SHOWN ON FLOOR PLANS, MOUNT ON RETURN SIDE OF AHU.

6/E300 FIRE ALARM DUCT DETECTOR INSTALLATION

SCALE: NTS

PANEL SCHEDULE: **"MD"**
VOLTAGE: 120/208V 3P, 4W
TYPE: SQUARE D I-LINE — BUS AMPACITY: 800A
MOUNT: SURFACE — MAIN CIRCUIT BKR: 800A
ISOLATED GROUND BUS: NO — SUB-FEED LUGS: NO
GROUND BUS: YES — (VERIFY W/UTILITY)AMPS AIC: 65 KAIC

WITH THE FOLLOWING BREAKERS:

QUANTITY	POLE	AMPS	LOAD SERVED
1	3	150	"LA"
1	3	60	SURGE
1	3	150	"LB"
1	2	200	"A"
1	2	100	"B"
1	3	100	SPARE

NOTE: PROVIDE 12" BREAKER MOUNTING SPACE

PANEL SCHEDULE: **"A"**
VOLTAGE: 120/208V 1P, 3W
TYPE: SQUARE D NQ — BUS AMPACITY: 225A
MOUNT: FLUSH — MAIN CIRCUIT BKR: NO
ISOLATED GROUND BUS: NO — SUB-FEED LUGS: NO
GROUND BUS: YES — AMPS AIC: 10 KAIC

WITH THE FOLLOWING BREAKERS:

QUANTITY	POLE	AMPS	LOAD SERVED
33	1	20	EXISTING LOADS
1	2	60	EXISTING KILN
1	2	20	DISPOSAL (E.C. TO REWIRE DISPOSAL TO OPERATE AT 208V 1PHASE.
1	1	30	EXISTING LOAD
1	2	30	EXISTING SINK HEATER
1	2	20	EXISTING AIR HANDLER (INSTALL BUCK BOOST TRANSFORMER)

NOTE: 42 CIRCUIT SINGLE TUB

PANEL SCHEDULE: **"B"**
VOLTAGE: 120/208V 1P, 3W
TYPE: SQUARE D NQ — BUS AMPACITY: 100A
MOUNT: FLUSH — MAIN CIRCUIT BKR: NO
ISOLATED GROUND BUS: NO — SUB-FEED LUGS: NO
GROUND BUS: YES — AMPS AIC: 10 KAIC

WITH THE FOLLOWING BREAKERS:

QUANTITY	POLE	AMPS	LOAD SERVED
16	1	20	EXISTING LOADS
14	1	20	SPACE

NOTE: 30 CIRCUIT SINGLE TUB

PANEL SCHEDULE: **"LA"**
VOLTAGE: 120/208V 3P, 4W
TYPE: SQUARE D NQ — BUS AMPACITY: 225A
MOUNT: FLUSH — MAIN CIRCUIT BKR: NO
ISOLATED GROUND BUS: NO — SUB-FEED LUGS: NO
GROUND BUS: YES — AMPS AIC: 10 KAIC

WITH THE FOLLOWING BREAKERS:

QUANTITY	POLE	AMPS	LOAD SERVED
1	3	40	RTU
40	1	20	GENERAL USE AND SPARES AND EXISTING LOADS
1	2	20	SPARE
1	3	20	SPARE
1	1	15	EXISTING LOAD
10	1	20	SPACE
1	1	20	GFI COOLER

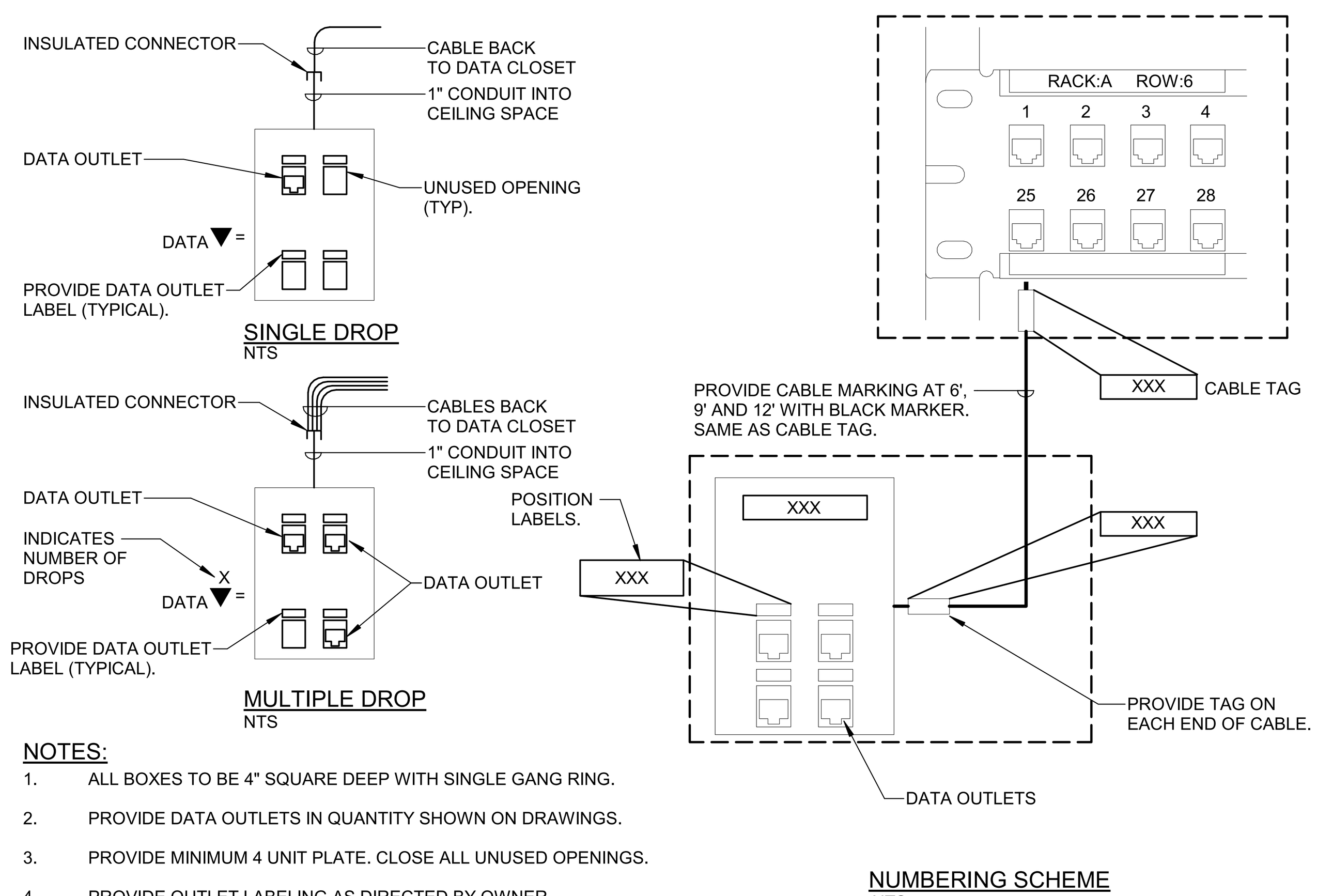
NOTE: 60 CIRCUIT SINGLE TUB

PANEL SCHEDULE: **"LB"**
VOLTAGE: 120/208V 3P, 4W
TYPE: SQUARE D NQ — BUS AMPACITY: 225A
MOUNT: SURFACE — MAIN CIRCUIT BKR: NO
ISOLATED GROUND BUS: NO — SUB-FEED LUGS: NO
GROUND BUS: YES — AMPS AIC: 10 KAIC

WITH THE FOLLOWING BREAKERS:

QUANTITY	POLE	AMPS	LOAD SERVED
6	1	15	EXISTING LOADS
15	1	20	EXISTING LOADS
1	2	20	EXISTING WELL PUMP (INSTALL BUCK BOOST TRANSFORMER)
1	2	30	EXISTING WATER HEATER
1	1	30	EXISTING LOAD
16	1	20	SPACE

NOTE: 42 CIRCUIT SINGLE TUB

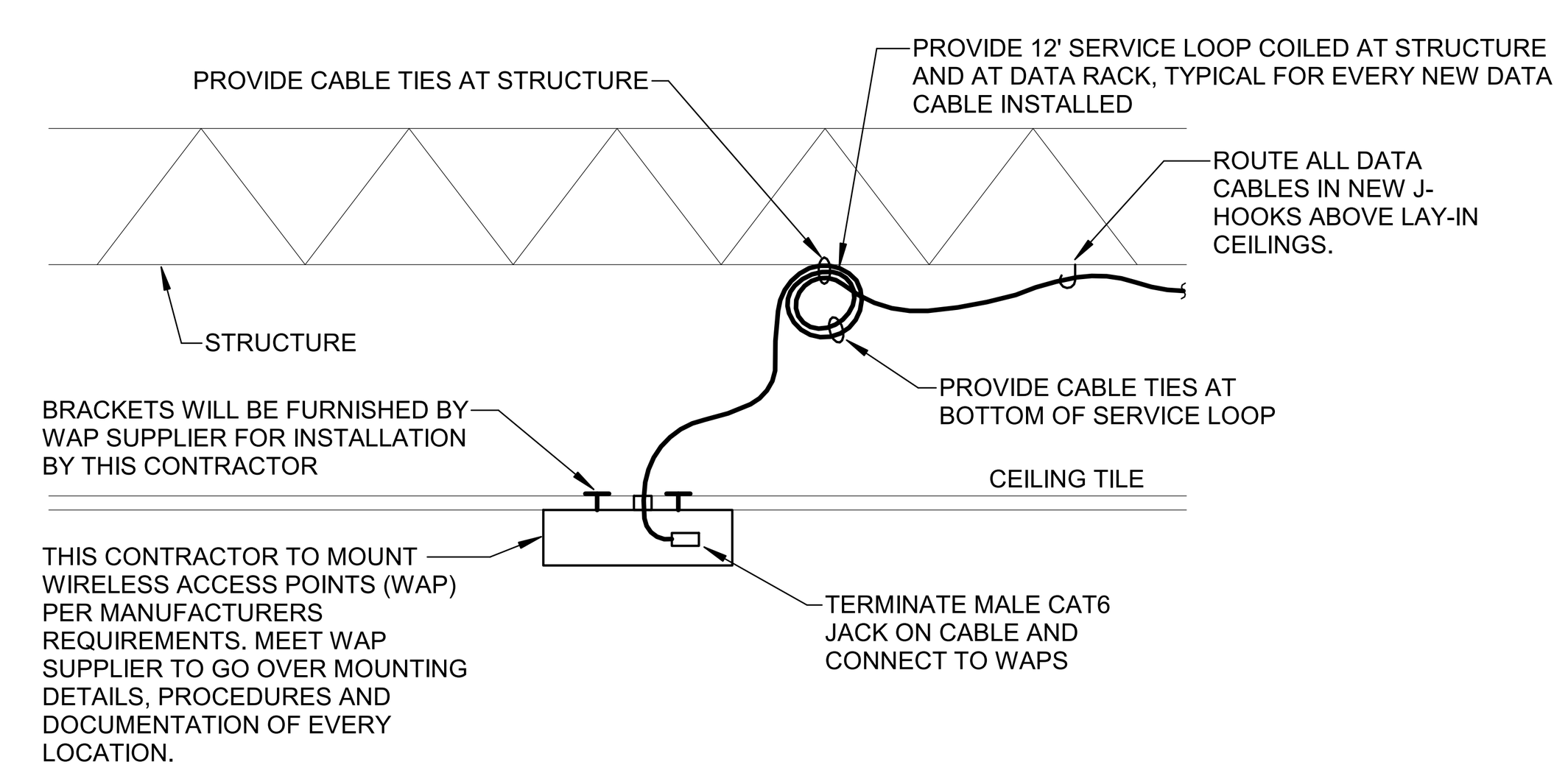


NOTES:

1. ALL BOXES TO BE 4" SQUARE DEEP WITH SINGLE GANG RING.
2. PROVIDE DATA OUTLETS IN QUANTITY SHOWN ON DRAWINGS.
3. PROVIDE MINIMUM 4 UNIT PLATE. CLOSE ALL UNUSED OPENINGS.
4. PROVIDE OUTLET LABELING AS DIRECTED BY OWNER.
5. IF SHOWN NEXT TO ABOVE COUNTER RECEPTACLE, ASSUME DEVICE MOUNTED ABOVE COUNTER.
6. SEE FLOOR PLANS FOR OTHER DEVICES THAT MAY BE MOUNTED IN CONJUNCTION WITH DATA OUTLETS.

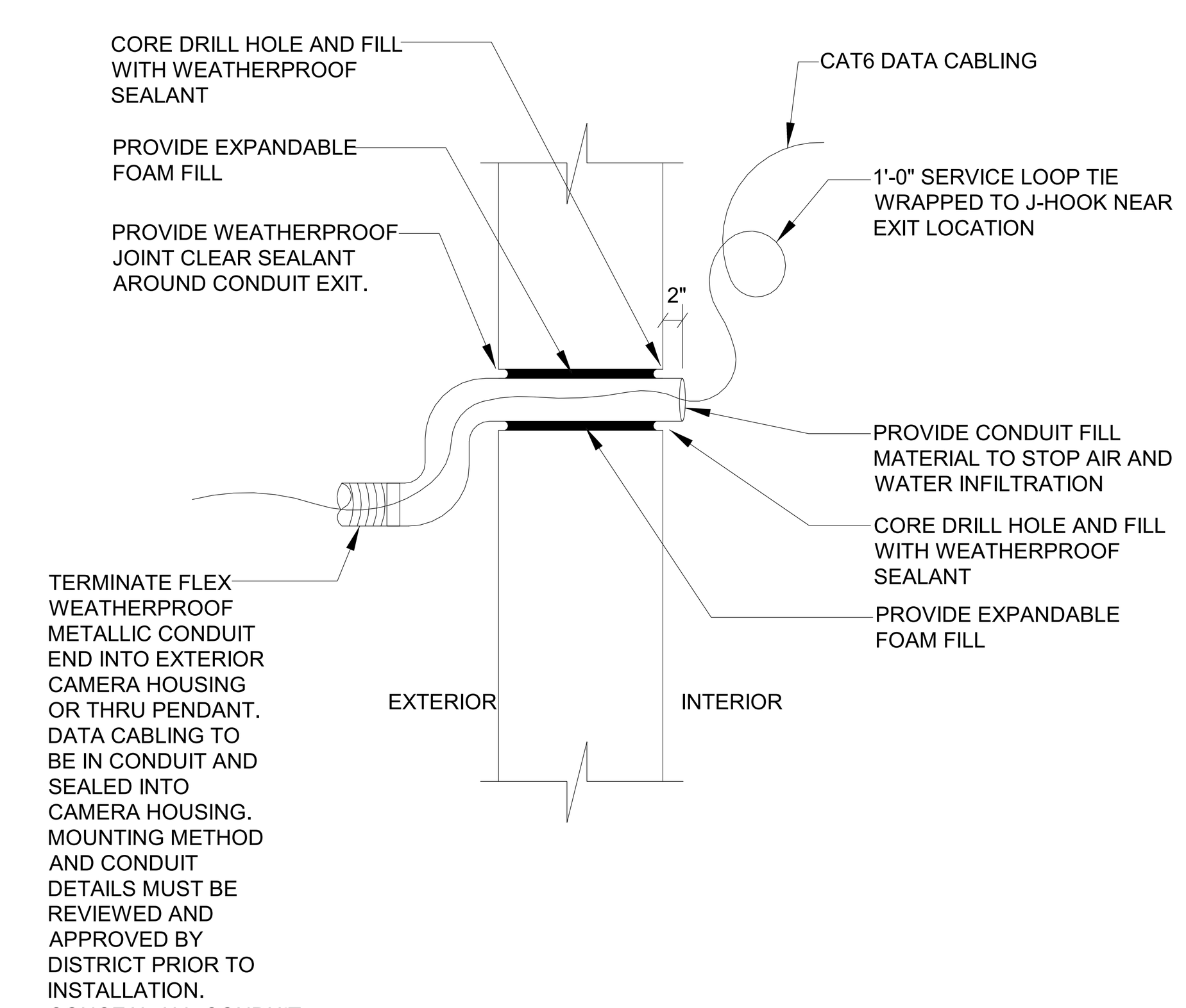
5/E300 TYPICAL TELECOMMUNICATIONS OUTLET CONFIGURATIONS

SCALE: NTS



4/E300 WIRELESS ACCESS POINT MOUNTING DETAIL

SCALE: NTS



2/E300 EXTERIOR WALL MOUNTED DATA AND CONDUIT PENETRATION DETAIL

SCALE: NTS

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REVISIONS:

ONE-LINE DIAGRAM

CONSTRUCTION DOCUMENTS
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SHEET NO: E300

ELECTRICAL SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST,
NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

WIRING DEVICES

- S — SINGLE POLE SWITCH, 3=3 WAY, 4=4 WAY, P=PILOT R=RELAY, K=KEYED, I=ILLUMINATED, D=DIMMER M=MOTION SENSOR SWITCH, L=DLM
- DUPLEX RECEPTACLE C=CEILING MOUNTED
- DUPLEX RECEPTACLE MOUNTED AT 42" TO CENTER
- POWER RECEPTACLE 240V 30=30AMP 60=60AMP R = 50A RANGE OUTLET D = 30A DRYER OUTLET
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- DOUBLE DUPLEX RECEPTACLE (RECEPTACLES MOUNTED SIDE BY SIDE)
- BLANK OUTLET FOR FUTURE DEVICES 4" BOX, SINGLE GANG
- EQUIPMENT CONNECTION
- 2 GANG FLUSH FLOOR BOX DOUBLE OUTLET, POWER AND LOW TENSION, SEE SPECIFICATIONS.

LIGHTING

- LIGHT FIXTURE
- EXIT LIGHT - ONE FACE
- DUAL TECHNOLOGY OCCUPANCY SENSOR LIGHTING
- PC — PHOTOCELL

FIRE ALARM

- WALL MOUNTED VOICE/VISUAL NOTIFICATION APPLIANCE, X = CD LEVEL
- WALL MOUNTED VOICE FIRE ALARM SPEAKER
- WALL MOUNTED VISUAL NOTIFICATION APPLIANCE, X = CD LEVEL
- F — MANUAL PULL STATION
- CEILING MOUNTED VOICE FIRE ALARM SPEAKER
- CEILING MOUNTED VISUAL NOTIFICATION APPLIANCE, X = CD LEVEL
- CEILING MOUNTED VOICE/VISUAL NOTIFICATION APPLIANCE, X = CD LEVEL
- ADDRESSABLE MONITOR MODULE

SECURITY

- DS — DOOR SWITCH. SEE DETAIL.
- DC — DOOR CONTROL
- CR — CARD READER
- ES — ELECTRIC STRIKE

EQUIPMENT

- NEW FLUSH MOUNTED PANEL. SEE PLANS.

MISCELLANEOUS

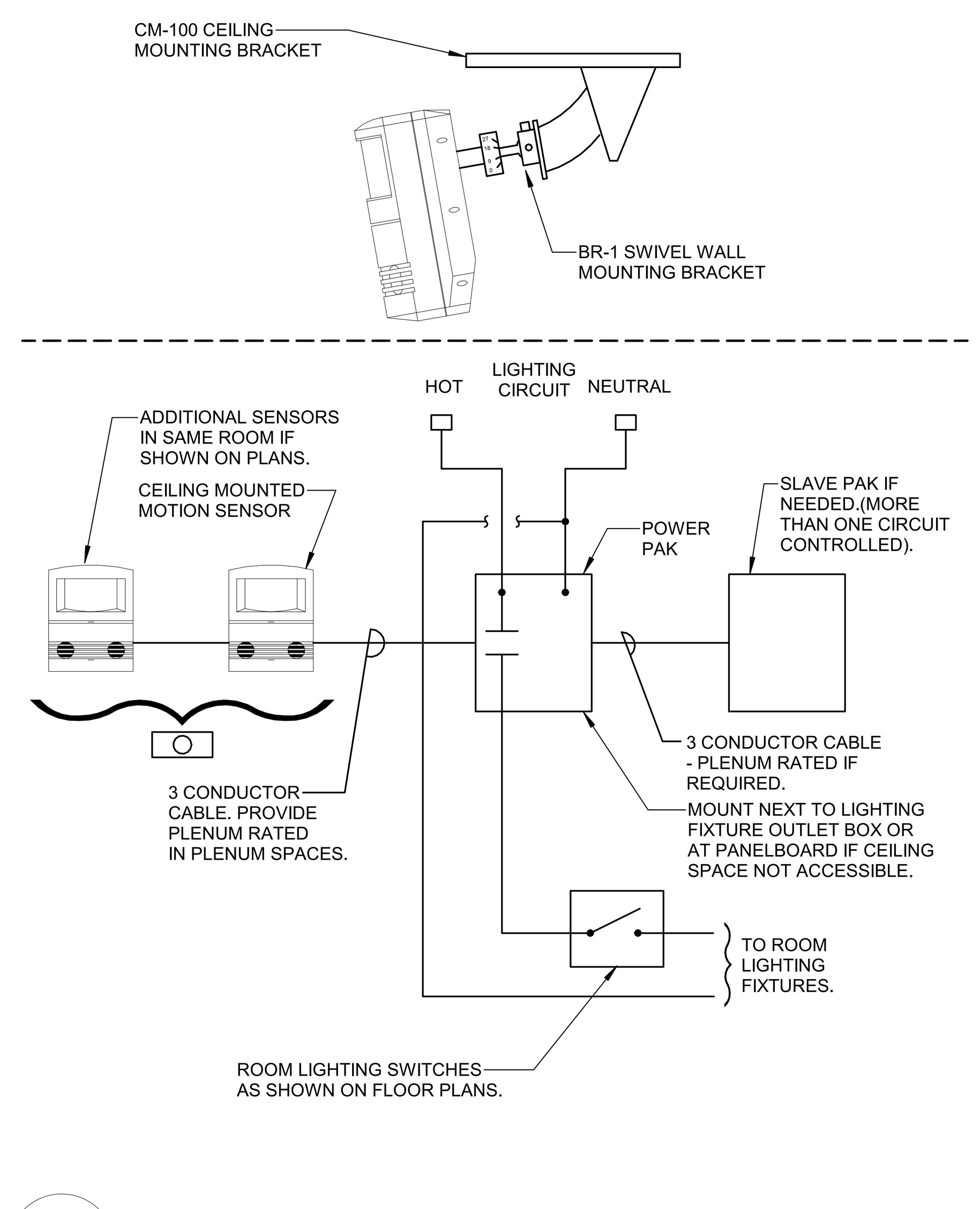
- X — REFERS TO NOTE NUMBER
- XXX / XXXX — REFERS TO DETAIL; SHEET NO. WHERE DETAIL IS LOCATED
- B — BELL WG=WIRE GUARD
- CIRCUIT HOMERUN TO 20A/1P BREAKER UNLESS SHOWN OTHERWISE ON DRAWINGS.
- INDICATES CONNECTED TO SAME CIRCUIT BUT CONTROLLED SEPARATELY

COMMUNICATION

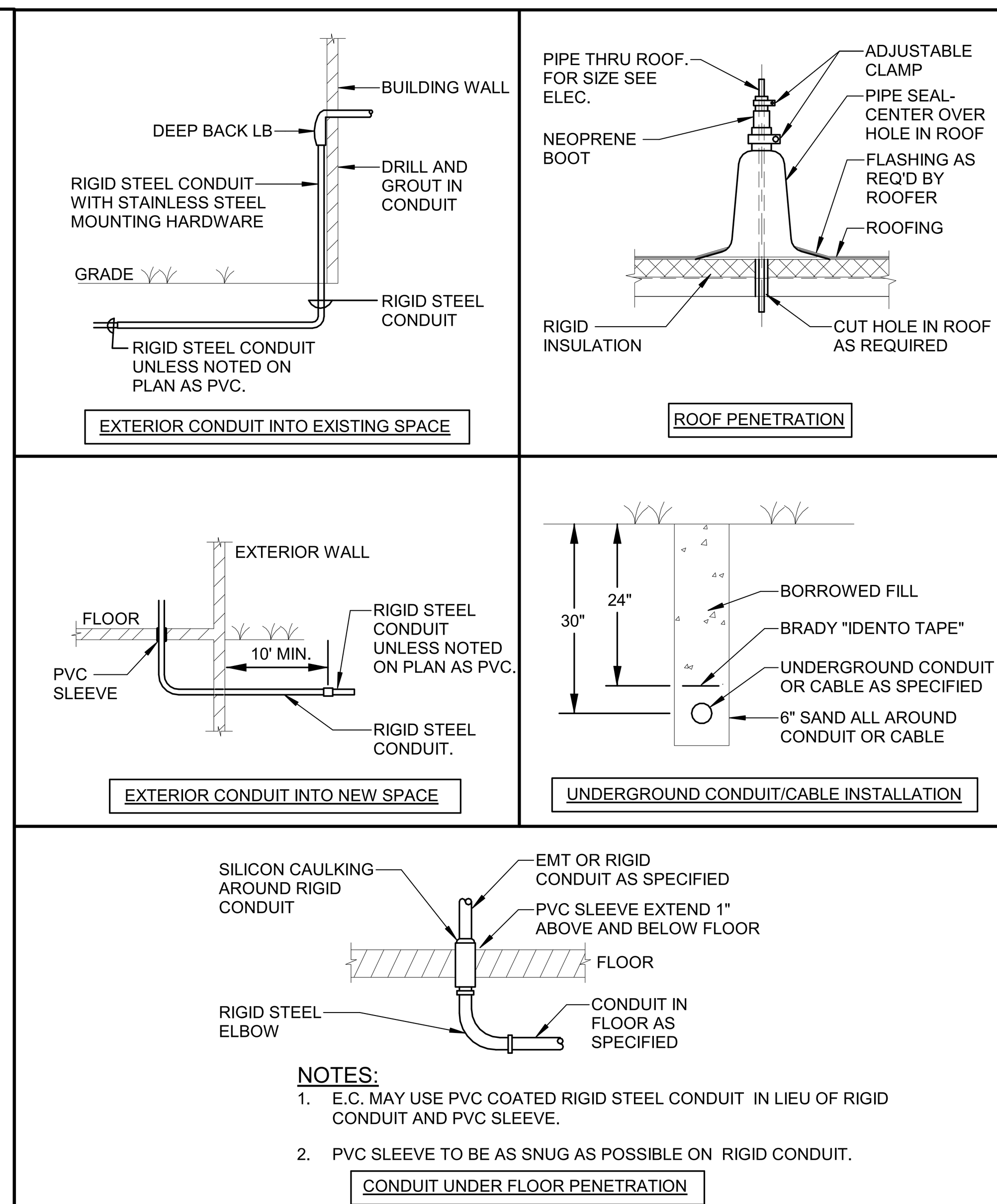
- DATA OUTLET, SEE DETAIL. X INDICATES NUMBER OF DROPS PER OUTLET, NO X INDICATES 1 DROP. PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
- WAP — WIRELESS ACCESS POINT DATA OUTLET ABOVE CEILING WITH 2 DATA DROPS EACH
- A — AUXILIARY/INPUT SOUND JACK
- M — MICROPHONE OUTLET
- W — WALL MOUNTED SPEAKER BOX
- C — CEILING MOUNTED SPEAKER
- MC — ADMINISTRATION STATION SEE SOUND SYSTEM RISER
- H / WP — HORN SPEAKER WP=WEATHER PROOF FLUSH MOUNT AT
- V — VOLUME CONTROL
- WALL CLOCK WG = WIRE GUARD
- DOUBLE FACED WALL CLOCK WG = WIRE GUARD
- SINGLE PUSH BUTTON

ABBREVIATIONS

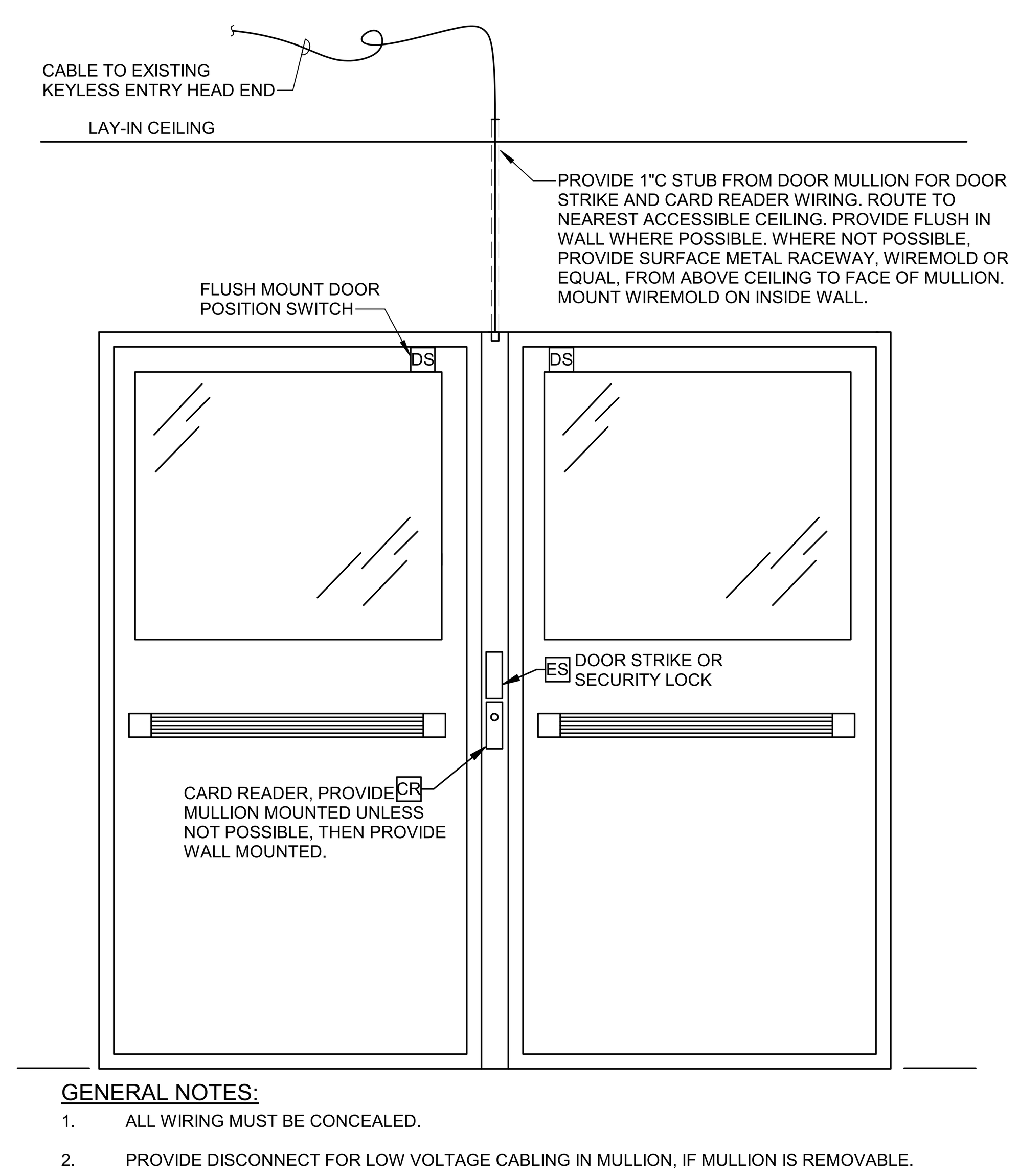
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
C	CONDUIT
CCU	COOLING CONDENSER UNIT
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CON	CONTACTOR
CP	CONTROL PANEL
CUH	CABINET UNIT HEATER
DIS	DISCONNECT
DM	DEMARC
DS	DOOR SWITCH
EBB	ELECTRICAL BASE BOARD
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEV	ELEVATION
EM	EMERGENCY
EQ	EQUIPMENT
EOL	END OF LINE RESISTOR
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	VARIABLE SPEED FAN CONTROL SWITCH
GUH	GAS UNIT HEATER
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GSP	GYM SWITCH PANEL
HF	HEAT FAN
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
INC	INCANDESCENT
JB	JUNCTION BOX
LC	LEXAN COVER
MAU	MAKEUP AIR UNIT
MB	MOTORIZED BACKBOARD
MC	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHD	OVERHEAD DOOR
OC	ON CENTER
PC	PHOTOCELL
PDB	PUNCH DOWN BLOCK
PNL	PANELBOARD
PS	POWER SUPPLY
RCP	RELAY CONTROL PANEL
REF	REFRIGERATOR
RTU	ROOF TOP UNIT
SAP	SECURITY ANNUNICIATOR PANEL
SCP	SECURITY CONTROL PANEL
SJB	SOUND SYSTEM JUNCTION BOX
SPD	SURGE PROTECTED DEVICE
SS	STAINLESS STEEL
SV	SOLENOID VALVE
TC	TELECOMMUNICATION CLOSET
TCP	TEMPERATURE CONTROL PANEL
TGB	TELECOMMUNICATION GROUND BAR MASTER
TJB	TERMINAL JUNCTION BOX
TRN	TRANSFORMER
TRS	TRANSFER SWITCH
TTB	TELEPHONE TERMINAL BOARD
TS	DUCT SMOKE TEST SWITCH
UC	UNDERCOUNTER
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
W	WELDER
WE	WALL EXHAUST
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHER PROOF
XP	CLASS 1, DIV. 1 EQUIPMENT



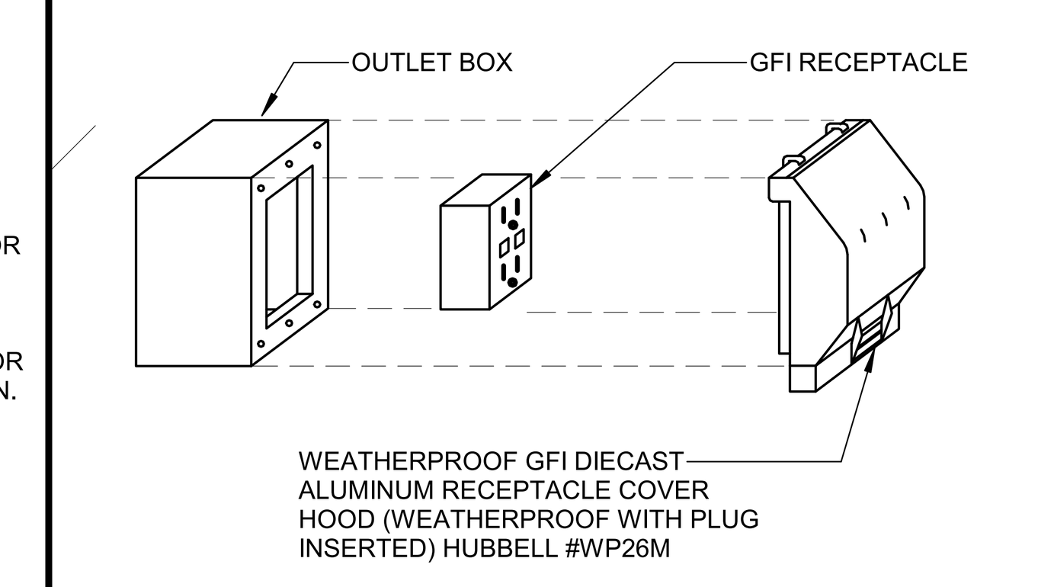
1 / E400 — MOTION SENSOR LIGHTING CONTROL
SCALE: NTS



2 / E400 — CONDUIT DETAILS
SCALE: NTS



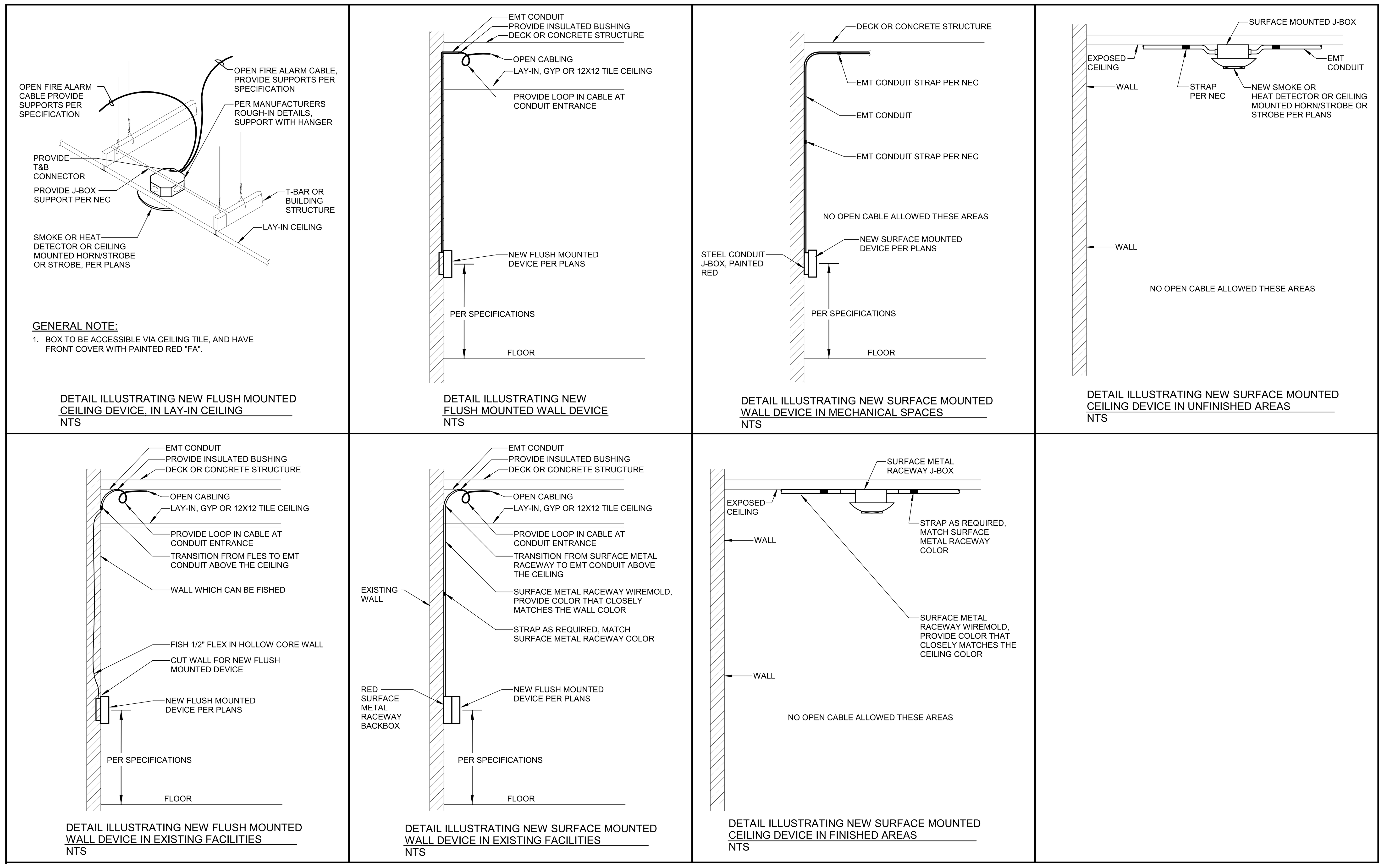
3 / E400 — DOOR STRIKE AND KEYLESS ENTRY ROUGH-IN
SCALE: NTS



NOTE:
FOR ALL NEW CONSTRUCTION BOX IS TO BE FLUSH MOUNTED.

OUTLET BOX:
FLUSH: 3 1/2" DEEP 1-GANG MASONRY BOX SURFACE: F.S. BOX

4 / E400 — GFI/WP RECEPTACLE MOUNTING DETAIL
SCALE: NTS



5 / E400 — FIRE ALARM DEVICE INSTALLATION DETAILS (NEW AND EXISTING)
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