

Brady Independent School District BOND 2018 PROJECTS



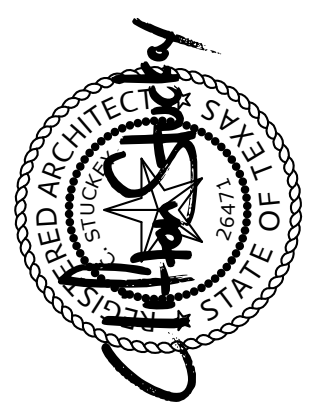
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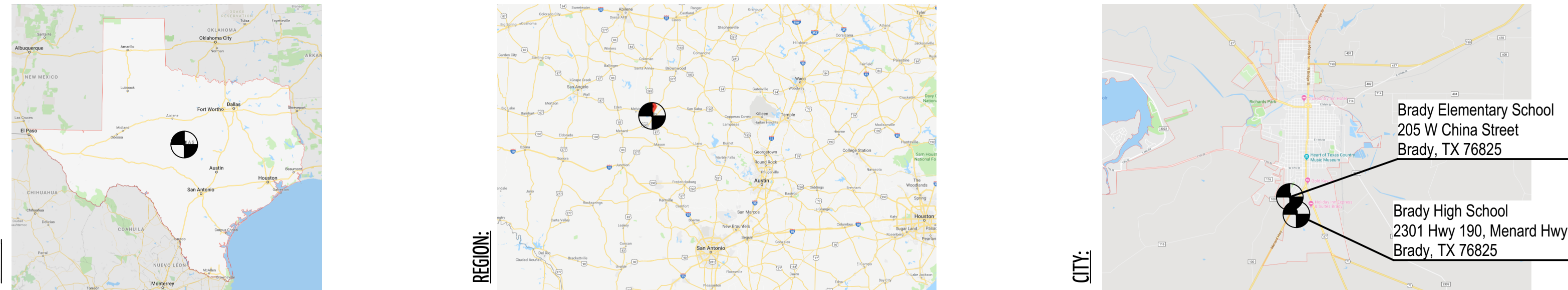
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SYMBOL LEGEND:

	DETAIL TAG
	EXTERIOR ELEVATION TAG
	SECTION TAG
	INTERIOR ELEVATION TAG
	PARTITION TYPE TAG RE: PARTITION SCHEDULE, A7.04
	DOOR TAG RE: DOOR SCHEDULE
	COLUMN LINE
	WINDOW TYPE RE: WINDOW TYPE SCHEDULE
	MATCH LINE
	ENLARGE PLAN / DETAIL TAG
	ROOM TAG
	ELEVATION INDICATOR
	MARKERBOARD (MB), TACK BOARD (TB), TACK STRIP (TS), TACKABLE WALL SURFACE (TWS)

PROJECT LOCATION:



PROJECT IMAGES:



PROJECT NOTES:

GENERAL PROJECT NOTES:

- CONTRACTOR SHALL PROVIDE ALL SAFETY PROTECTION ITEMS AS REQUIRED BY OSHA AND TEXAS STATUTES, AS PART OF THEIR BID.
- REFER TO SHEET A0.01 FOR CODE SUMMARY: ELEMENTARY RENOVATIONS AND APPLICABLE CODE INFORMATION
- REFER TO SHEET A0.02 FOR CODE SUMMARY: CAREER CENTER AND APPLICABLE CODE INFORMATION
- REFER TO SHEET A0.03 FOR UL FIRE RESISTANCE CONSTRUCTION
- REFER TO SHEET A0.04 FOR TDLR ELIMINATION OF ARCHITECTURAL BARRIERS
- REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES
- REFER TO SHEET A0.06 FOR OWNER SURVEY. THIS IS PROVIDED FOR REFERENCE ONLY.

BID ALTERNATES:

- PROVIDE ADDITIONAL ACCESS CONTROLS AND CAMERAS, RE: TECHNOLOGY
- PROVIDE STAINLESS STEEL COUNTERTOPS AND SPLASHES IN LIEU OF PLASTIC LAMINATE CLAD COUNTERTOPS AT CLASSROOM C13.
- PROVIDE CHAIR RAIL & WAJNSCOT AND PROVIDE LVT IN LIEU OF VCT AT CLASSROOM C113.
- REMOVE EXISTING AND PROVIDE NEW PARTITIONS (06M) BETWEEN CLASSROOMS AT ELEMENTARY RENOVATIONS.
- REMOVE EXISTING AND PROVIDE NEW WALL TILE AT ELEMENTARY CORRIDORS (ALL EXCEPT INTERIOR CORE).
- REPLACE E201 FRAME AND DOORS, AND WINDOW 'D' AS SHOWN.

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- A0.00 COVER SHEET
- A0.01 CODE SUMMARY: ELEMENTARY RENOVATIONS
- A0.02 CODE SUMMARY: CAREER CENTER
- A0.03 UL FIRE RESISTANCE CONSTRUCTION
- A0.04 ELIMINATION OF ARCHITECTURAL BARRIERS
- A0.05 ARCHITECTURAL GENERAL NOTES
- A0.06 OWNER SURVEY

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- T020 TECHNOLOGY - MIDDLE SCHOOL OVERALL
- T030 TECHNOLOGY - HIGH SCHOOL OVERALL
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- T102 TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT C
- T103 TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT D
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- P2.02 CAREER CENTER FLOOR PLAN - PLUMBING - WASTE
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- E3.01 ELEMENTARY FLOOR PLAN - POWER
- E3.02 CAREER CENTER FLOOR PLAN - POWER

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Set Number

Project Number
1703

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4/4/2019

Sheet Number

COVER SHEET **A0.00**

ELEMENTARY RENOVATIONS

- TOTAL BUILDING AREA: 64,883 SF
- RENOVATION AREA: 12,790 SF; 19.7% TOTAL BUILDING AREA
- LEVEL 1 RENOVATIONS: 11,580 SF; 17.8% TOTAL BUILDING AREA
- LEVEL 2 RENOVATIONS: 1,210 SF; 1.9% TOTAL BUILDING AREA
- SECTION 403: ALTERATION – LEVEL 1**
 "... THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE."
- SECTION 404: ALTERATION – LEVEL 2**
 "... THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OF ANY ADDITIONAL EQUIPMENT."
- SECTION 405: ALTERATION – LEVEL 3**
 "... WHERE THE WORK AREA EXCEEDS 50% OF THE AGGREGATE AREA OF THE BUILDING."
- TOTAL ALTERATION AREA IS 18.5% OF BUILDING. LEVELS 1 & 2 WILL APPLY TO APPLICABLE SPACES.
- LEVEL 1 SPACES SHOWN ON PLAN INCLUDE THE REPLACEMENT OF FLOOR FINISHES, CASEWORK, CEILING FINISH, LIGHTING AND MECHANICAL. RESTROOM AREA HAS UNDERGONE MINIMAL RECONFIGURATION TO MAKE ENTRY ACCESSIBLE. RESTROOMS HAVE BEEN MADE ACCESSIBLE.
- LEVEL 2 SPACES SHOWN ON PLAN HAVE BEEN RECONFIGURED TO SERVE SAME USE WITH DIFFERENT CONFIGURATION.
- SECTION 603: FIRE PROTECTION**
 ALTERATIONS DO NOT AFFECT LEVEL OF FIRE PROTECTION
- SECTION 604: MEANS OF EGRESS**
 ALTERATIONS DO NOT AFFECT ANY MEANS OF EGRESS
- SECTION 605: ACCESSIBILITY**
 RESTROOM ALTERATIONS ARE DONE SPECIFICALLY TO BRING THEM UP TO MODERN ACCESSIBILITY REQUIREMENTS.
- SECTION 606: STRUCTURAL**
 ALTERATIONS DO NOT AFFECT EXISTING STRUCTURE
- SECTION 607: ENERGY CONSERVATION**
 EXTERIOR WINDOWS ARE BEING REPLACED WITH THERMALLY BROKEN FRAMES AND 1" INSULATED LOW-E COATED GLAZING. INSULATION WILL BE ADDED UNDER ROOF STRUCTURE TO BRING IT UP TO R-30 RATINGS. MECHANICAL UNITS ARE BEING REPLACED WITH MODERN, HIGHER EFFECIENCY UNITS.
- 704.2.2 FIRE PROTECTION AT GROUP F OCCUPANCY**
 THE LEVEL 2 WORK AREA DOES NOT EXCEED 50% OF THE TOTAL FLOOR AREA OR THE FLOOR AREA. ADDITION OF A SPRINKLER SYSTEM IS NOT REQUIRED.
- 704.4 FIRE ALARM AND DETECTION**
 ALL RENOVATED AREAS WILL BE PROVIDED WITH A FIRE ALARM AND DETECTION SYSTEM
- SECTION 705: MEANS OF EGRESS**
 ALTERATIONS DO NOT AFFECT ANY MEANS OF EGRESS
 WORK AREA IS NOT SHARED BY MORE THAN ONE TENANT.
- SECTION 706: ACCESSIBILITY**
 RESTROOM ALTERATIONS AND ENTRY RECONFIGURATIONS ARE DONE SPECIFICALLY TO BRING THEM UP TO MODERN ACCESSIBILITY REQUIREMENTS.
- SECTION 707: STRUCTURAL**
 ALTERATIONS DO NOT AFFECT EXISTING STRUCTURE
- SECTION 708: ELECTRICAL**
 ALL RENOVATED AREAS WILL BE BROUGHT UP TO CURRENT REQUIREMENTS
- SECTION 709: MECHANICAL**
 ALL RENOVATED AREAS WILL BE BROUGHT UP TO CURRENT REQUIREMENTS
- SECTION 710: PLUMBING**
 ALL RENOVATED AREAS WILL BE BROUGHT UP TO CURRENT REQUIREMENTS
- SECTION 711: ENERGY CONSERVATION**
 EXTERIOR WINDOWS ARE BEING REPLACED WITH THERMALLY BROKEN FRAMES AND 1" INSULATED LOW-E COATED GLAZING. INSULATION WILL BE ADDED UNDER ROOF STRUCTURE TO BRING IT UP TO R-30 RATINGS. MECHANICAL UNITS ARE BEING REPLACED WITH MODERN, HIGHER EFFECIENCY UNITS.

TABLE (803.9)	EXIT ENCLOSURES EXIT PASSAGEWAYS	CORRIDORS	ROOMS ENCLOSED
SPACES			
SPRINKLERED	B	C	C
UNSPRINKLERED	A	B	C

DEFERRED SUBMITTAL(S): FIRE ALARM SUBMITTAL
 *DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING

GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE

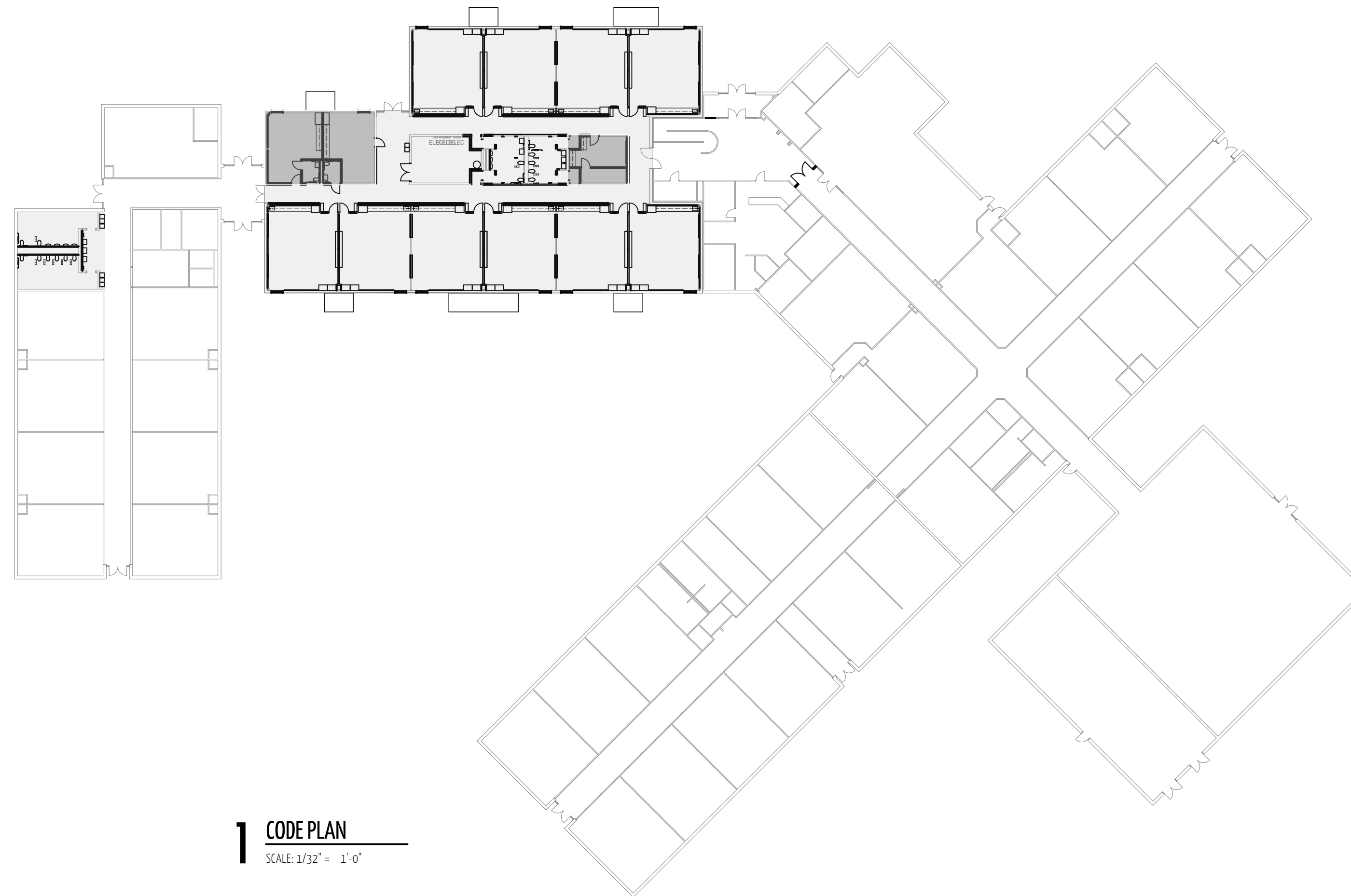
CODE INFORMATION

CODES	CITY OF BRADY, TEXAS
LOCAL:	
BUILDING:	IBC 2009
FIRE:	IFC 2009
MECHANICAL:	IMC 2009
PLUMBING:	IPC 2009
ELECTRICAL:	NEC 2014
ENERGY EFFICIENCY:	IECC 2015
EXISTING BUILDING:	IEBC 2009
ACCESSIBILITY:	TAS 2012

SUMMARY	
CONSTRUCTION:	TYPE IIB, EXISTING
OCCUPANCY:	GROUP E
FIRE CONTROL:	UNSPRINKLERED, EXISTING
ALLOWABLE HEIGHT	2

LEGEND

- LEVEL 1 ALTERATIONS
- LEVEL 2 ALTERATIONS



1 CODE PLAN
 SCALE: 1/32" = 1'-0"



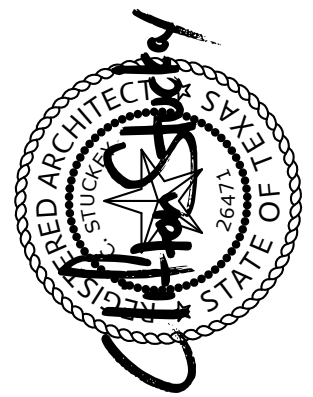
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 Brady, Texas
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Revision:

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 1703

Date:
 4/4/2019

Sheet Number

CAREER CENTER

2009 IBC TYPE IIB, GROUP E, 1 STORY (507.10) WITH SPRINKLER MAX ALLOWABLE FIRE AREA, TYPE IIB = 14,500SF / 2 IBC 506 SPRINKLER (14,500 X 0%) = 00SF IBC 506 FRONTAGE (14,500 X 0.55) = 7,975SF PERMITTED FIRE AREA = 22,475SF AREA OF NEW CONSTRUCTION = 6,645SF UNDER ALLOWABLE FIRE AREA = 15,830SF NO FIRE WALLS REQUIRED	TABLE (803.9) SPACES SPRINKLERED B UNSPRINKLERED A STAGE OR PLATFORM Y/N (1 HR) LABORATORIES Y/N (1 HR) LAUNDRY GREATER THAN 100 SF Y/N (1 HR) HAZARDOUS MATERIALS STORAGE Y/N (2 HR) ELEVATOR SHAFT Y/N (1 HR) VOCATIONAL SHOP Y/N (1 HR) BOILER ROOM IF OVER 15 PSI & 10HP Y/N (1 HR)	EXIT ENCLOSURES EXIT PASSAGEWAYS CORRIDORS C B CORRIDORS C B C C	ROOMS ENCLOSED C C C
STRUCTURAL FRAME 0 HR BEARING WALLS 0 HR NON-BEARING WALLS 0 HR FLOOR CONSTRUCTION 0 HR ROOF CONSTRUCTION 0 HR CORRIDORS >30 OCCUPANTS 1 HR	MISCELLANEOUS EGRESS REQUIREMENTS		

508.2.5 INCIDENTAL ACCESSORY OCCUPANCIES
PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F: 2 HOUR FIRE SEPARATION

602 FIRE-RESISTANCE RATINGS REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE, OCCUPANCY E, TYPE IIB

ACTUAL BUILDING SEPARATION: 10'-8"
10' < X < 30 = 0

IFC 609
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED IN COMMERCIAL KITCHEN EXHAUST HOOD

903.2.3 GROUP E AUTOMATIC SPRINKLER
AUTOMATIC SPRINKLER REQUIRED FOR FIRE AREAS OVER 12,000 SF
CAREER CENTER IS 6,645 SF

906.1 PORTABLE FIRE EXTINGUISHERS
WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED.
WITHIN 75' MAXIMUM TRAVEL DISTANCE, ALONG NORMAL PATHS OF TRAVEL

907.2.3 FIRE ALARM SYSTEMS FOR GROUP E
A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP E OCCUPANCIES.

1004.1.1 EGRESS: DESIGN OCCUPANT LOAD
CALCULATIONS FROM ARCHICAD SHOW OCCUPANCY OF 127 WITH 25.4' OF EGRESS REQUIRED. = (1) 3'-0" LEAF
CORRIDOR LEAFS = 4
COSMETOLOGY STUDIO LEAFS = 1
CLASSROOM LEAFS = 2
KITCHEN LEAFS = 1
PAINT SHOP LEAFS = 1
TOTAL: (8) LEAFS, 324" EGRESS PROVIDED

CULINARY ARTS KITCHEN OCCUPANCY: 7
EGRESS: 7 * 0.2' = 1.4' = 1 LEAF
EXTERIOR LEAFS: 1
INTERIOR CIRCULATION LEAFS: 1
ONE EXIT REQUIRED, TWO EXITS PROVIDED

COSMETOLOGY STUDIO OCCUPANCY: 20
EGRESS: 20 * 0.2' = 4' = 1 LEAF
EXTERIOR LEAFS: 1
INTERIOR CIRCULATION LEAFS: 1
ONE EXIT REQUIRED, TWO EXITS PROVIDED

PAINT SHOP OCCUPANCY: 29
EGRESS: 29 * 0.2' = 5.8' = 1 LEAF
EXTERIOR LEAFS: 2
ONE EXIT REQUIRED, TWO EXITS PROVIDED

1015.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
NO OCCUPANCY SPACES GREATER THAN 50.

1021.1 MINIMUM NUMBER OF EXITS
127 OCCUPANTS
1 - 500 OCCUPANTS: 2 EXITS

EGRESS CALCULATIONS

NO	NAME	USE TYPE	AREA	OCCUPANCY	EGRESS WIDTH (IN.)
C100	CORR	Corridor	411.35	0.00	0.00
C101	COSMETOLOGY CLASSROOM	Classroom - 6th-up	438.88	22.00	4.40
C102	COSMETOLOGY STUDIO	Vocational Shop	865.39	18.00	3.60
C102A	FACIAL	Vocational Shop	77.89	2.00	0.40
C103	ELEC	Accessory Area	70.26	1.00	0.20
C104	IDF	Accessory Area	60.37	1.00	0.20
C105	CUST / MECH	Accessory Area	70.24	1.00	0.20
C106	DISPENS	Accessory Area	100.26	1.00	0.20
C107	RR	Accessory Area	44.58	1.00	0.20
C108	RR	Accessory Area	45.40	1.00	0.20
C110	DRY STORAGE	Accessory Area	105.76	1.00	0.20
C111	CULINARY ARTS KITCHEN	Kitchen	1,208.16	7.00	1.40
C112	OFFICE	Business	70.57	1.00	0.20
C113	CLASSROOM	Classroom - 6th-up	807.96	41.00	8.20
C115	SHOP	Vocational Shop	1,403.73	29.00	5.80
			5,780.80 sq ft	127.00	25.40

DEFERRED SUBMITTAL(S): FIRE ALARM SUBMITTAL
DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING

PLUMBING FIXTURES CALCULATIONS

NO	NAME	OCCUPANCY
C100	CORR	0
C101	COSMETOLOGY CLASSROOM	0
C102	COSMETOLOGY STUDIO	24
C102A	FACIAL	2
C103	ELEC	0
C104	IDF	0
C105	CUST / MECH	0
C106	DISPENSORY	0
C107	RR	0
C108	RR	0
C110	DRY STORAGE	0
C111	CULINARY ARTS KITCHEN	7
C112	OFFICE	1
C113	CLASSROOM	26
C115	PAINT SHOP	28
ACTUAL OCCUPANCY		96

REQUIREMENTS (IPC 403.1):
FEMALE WC: 1 PER 50
FEMALE LAV: 1 PER 50
MALE WC: 1 PER 50
MALE LAV: 1 PER 50
EWC: 1 PER 100
1 SERVICE SINK

REQUIRED:
FEMALE WC: 0.96
FEMALE LAV: 0.96
MALE WC: 0.96
MALE LAV: 0.96
EWC: 0.96
1 SERVICE SINK

PROVIDED:
FEMALE WC: 1
FEMALE LAV: 1
MALE WC: 1
MALE LAV: 1
EWC: 2
1 SERVICE SINK

GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE

CODE INFORMATION

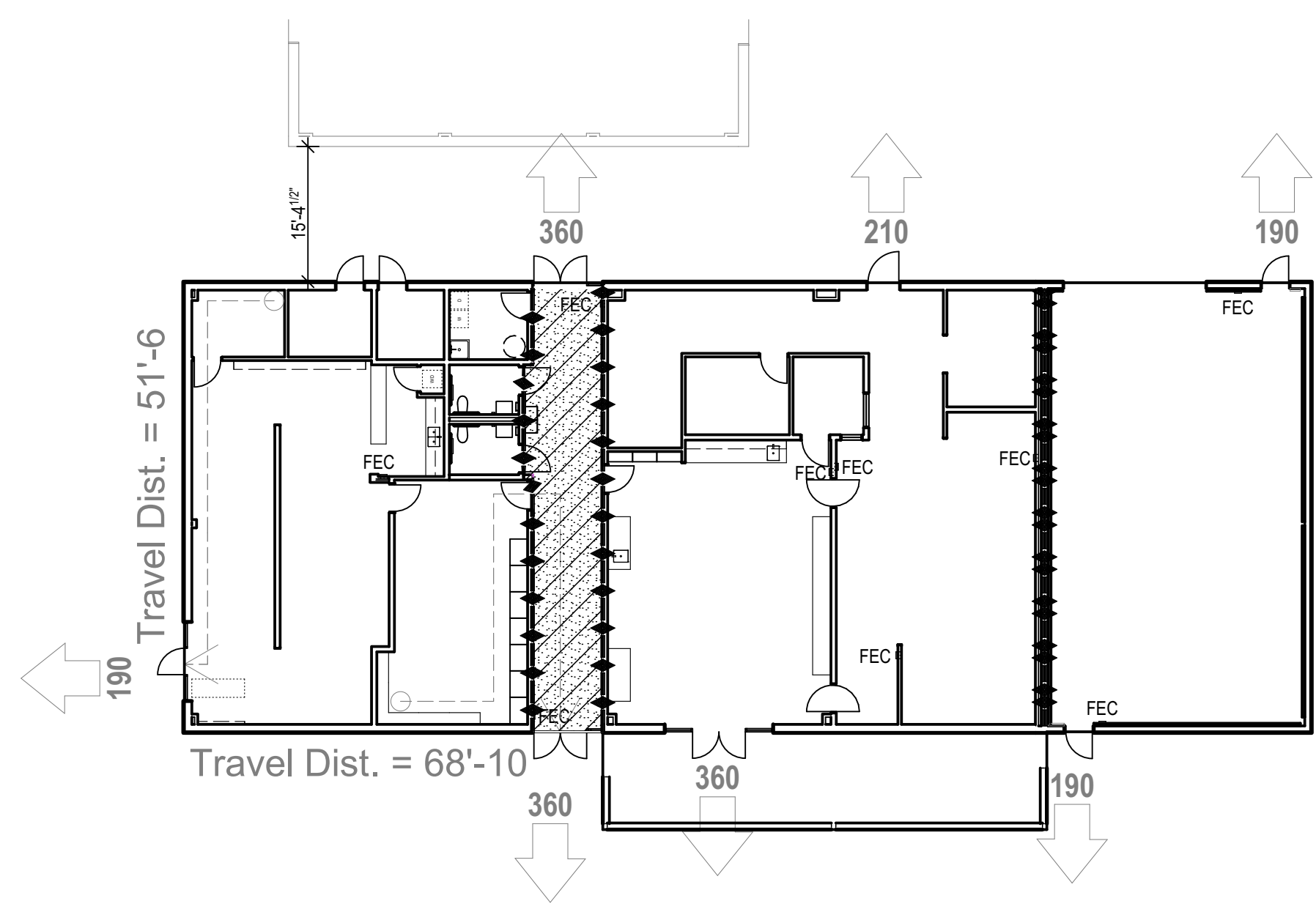
CODES	CITY OF BRADY, TEXAS
LOCAL:	
BUILDING:	IBC 2009
FIRE:	IFC 2009
MECHANICAL:	IMC 2009
PLUMBING:	IPC 2009
ELECTRICAL:	NEC 2014
ENERGY EFFICIENCY:	IECC 2015
ACCESSIBILITY:	TAS 2012

SUMMARY	
CONSTRUCTION:	TYPE IIB
OCCUPANCY:	GROUP E
FIRE CONTROL:	UNSPRINKLERED
ALLOWABLE HEIGHT	2
ALLOWABLE AREA	14,500
MIN INTERIOR FINISH CLASS	CLASS FLAME SPREAD
ENCLOSURE VERTICAL EXITWAYS	II 75
CORRIDORS/HORIZONTAL EXITWAYS	III 200
ELSEWHERE	III 200
FOAM PLASTIC INSULATION	II 75
ALL OTHER INSULATION	I 25
NOTE: THE SMOKE DENSITY OF ALL MATERIALS WILL NOT EXCEED 450. TEXTILES ON WALLS OR CEILING SHALL BE CLASS I.	
MAXIMUM TRAVEL DISTANCE TO EXIT	
UNSPRINKLERED	200'
SPRINKLERED	250'
EGRESS WIDTH PER PERSON	
LEVEL	0.2'
STAIRS	0.3'
MINIMUM EGRESS DOOR WIDTH	
IBC/NFPA	32"
MAXIMUM EGRESS DOOR WIDTH	
IBC/NFPA	48"

LEGEND

NOTE: ALL RATED WALLS ARE TO EXTEND TO UNDERSIDE OF ROOF UNLESS CAPPED BY FIRE RATED CEILING TO MATCH FIRE RESISTANCE. REFER TO FLOOR PLANS AND SHEET A0.03 FOR UL FIRE RESISTANCE CONSTRUCTION.

- 1HR RATED WALL CONSTRUCTION - UL# U423
- 2HR RATED WALL CONSTRUCTION - UL# U423 OR U906
- 1HR RATED FLOOR CONSTRUCTION - UL# L527
- 1HR RATED CEILING CONSTRUCTION - UL# P516 OR G528
- 1HR RATED CEILING CONSTRUCTION - UL# U423
NOTE: REFER TO IBC 708.4, EXCEPTION 3
- FIRE EXTINGUISHER CABINET, RE: 2/A7.07. 75' TRAVEL RADIUS INDICATED.



CODE PLAN
SCALE: 1/16" = 1'-0"



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Brady Independent School District
BOND 2018 PROJECTS
Brady, Texas
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ARCHITECTURAL GENERAL NOTES:

- THE FOLLOWING NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS. FOR NOTES APPLICABLE TO ALL DRAWINGS OF ALL DISCIPLINES, REFER TO THE PROJECT MANUAL AND DRAWINGS IN THEIR ENTIRETY FOR FURTHER INFORMATION.
- ALL PARTS OF THE WORK – INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC – MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING REGULATIONS OF ALL FEDERAL, STATE, DISTRICT AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING REGULATION.
- THE ARCHITECTURAL DRAWINGS ARE PART OF MORE ENCOMPASSING SET OF DOCUMENTS THAT CONSIST OF ALL DRAWINGS IN THE INDEX OF DRAWINGS ON COVER SHEET. THE WORK DESCRIBED ON DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY ANY CONTRACTOR OR SUB-CONTRACTOR ON THE JOB. ANY PARTS NOT TO BE WORKING FROM A PARTIAL SET OF DOCUMENTS SHOULD BE DISMISSED FROM THE CONSTRUCTION SITE UNTIL A FULL SET OF DOCUMENTS ARE OBTAINED AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL REVIEW ALL WORK OF PARTY IN VIOLATION FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONSTRUCTION MANAGER TO REVIEW AND COORDINATE THE WORK WITH ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS PRIOR TO COMMENCING CONSTRUCTION AND TO ASSURE ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
- AS PART OF THE CONTRACTOR'S OR CONSTRUCTION MANAGER'S RESPONSIBILITY, THEY ARE TO UNDERSTAND THE CONTRACT DOCUMENTS AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS AS REQUIRED TO MEET THE CONTRACT OBLIGATIONS FOR THE PROJECT. THE CONTRACTOR OR CONSTRUCTION MANAGER SHALL ENDEAVOR TO IDENTIFY AND NOTIFY, IN WRITING, THE ARCHITECT/DESIGN TEAM OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATION FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE REVIEWED AND APPROVED BY THE ARCHITECT.
- THE ARCHITECTURAL DRAWINGS SHALL ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK FOR ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. LOCATIONS SHOWN ON OTHER DISCIPLINE'S DRAWINGS ARE SCHEMATIC AND REQUIRE COORDINATION WITH ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK. IF THE EXACT LOCATION IS NOT GIVEN IN ARCHITECTURAL THEN A REQUEST FOR INFORMATION SHALL FOLLOW TO VERIFY EXACT LOCATION. **EXCEPTIONS:** DIMENSIONED LOCATION SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE: A. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE OR NOTATION ON THE ARCHITECTURAL DRAWINGS. B. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIED SPACE. FOR WHICH ARCHITECTURAL SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.
- THE ARCHITECTURAL FLOOR PLANS, REFLECTED CEILING PLANS, SECTION AND ELEVATIONS ILLUSTRATE THE EXACT LOCATION OF ANY, BUT NOT ALL, EXPOSED PARTS OF THE WORK. APPLY THE RULES INDICATED FOR MOUNTING HEIGHTS BELOW.
- REFER TO STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR THE DETAILS OF DESIGN FOR THOSE DISCIPLINES OF WHICH A PORTION OF THE WORK MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL VERIFY AND CORRELATE ALL DIMENSIONS ON THE JOB SITE. USE DIMENSIONS INDICATED. DO NOT SCALE DIMENSIONS ON DRAWINGS.
- ANY WORK THAT INVOLVES CUTTING OR DAMAGE TO EXISTING CONDITIONS SHALL BE REPAIRED TO MATCH EXISTING.
- ALL REFERENCES TO CONTRACTOR IN THE FOLLOWING NOTES SHALL REFERENCE THE INVOLVED PARTY BEING GENERAL CONTRACTOR, CONSTRUCTION MANAGER AND/OR SUBCONTRACTOR AND THEIR SUBCONTRACTORS.
- ALL REFERENCES TO OWNER SHALL REFERENCE THE OWNER OR THE OWNER'S APPOINTED AGENT.
- THE CONTRACTOR SHALL SUBMIT A WORK PLAN FOR ALL SCOPES OF WORK FOR OWNER AND ARCHITECT APPROVAL, INCLUDING BUT NOT LIMITED TO COMMUNICATION, SAFETY, RISK, CHANGE, CLOSE-OUT AND QUALITY MANAGEMENT PLAN.
- CONTRACTOR SHALL COORDINATE NUMBERING OF ALL BUILDING SYSTEMS – INCLUDING BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, TECHNOLOGY.
- PHONE – WITH ROOM SIGNAGE NUMBERING SYSTEM AS APPROVED BY THE OWNER. THE NUMBERING SYSTEM AS PER THE CONTRACT DOCUMENTS IS FOR REFERENCE ONLY AND MAY NOT REPRESENT THE FINAL NUMBERING SCHEME AS APPROVED BY THE OWNER. CONTRACTOR SHALL VERIFY FINAL NUMBERING SCHEME WITH THE OWNER.

DEFINITIONS & TERMINOLOGY:

- "TYPICAL" "TYP.": UNLESS NOTED OTHERWISE, MEANS IDENTICAL FOR ALL CONDITIONS, WHICH MATCH ORIGINAL CONDITION INDICATED.
- "SIMILAR" "SIM.": MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION OF CONDITIONS, WHICH VARY FROM TYPICAL OR SIMILAR CONDITION INDICATED.
- "OPPOSITE HAND" "OH.": MEANS CONDITION IS MIRROR IMAGE OF DETAILED REFERENCE.
- "ALIGN": MEANS ALIGNMENT OF SIMILAR COMPONENTS OF CONSTRUCTION (WALLS, JAMBS, ETC.) WHICH ARE ADJACENT OR THE COMPONENTS SHALL BE IN LINE WITH EACH OTHER ACROSS VOIDS. DIMENSIONS ARE NOT ADJUSTABLE UNLESS NOTED WITH PLUS/MINUS TOLERANCE.
- "CLR.": MEANS "CLEAR"
- "O.T.O.": MEANS "OUT TO OUT"
- "N.O.": MEANS "UNLESS NOTED OTHERWISE"
- "O.P.O.I.": MEANS "OWNER PROVIDED, OWNER INSTALLED"
- "O.P.C.I.": MEANS "OWNER PROVIDED, CONTRACTOR INSTALLED"
- "C.P.O.I.": MEANS "CONTRACTOR PROVIDED, OWNER INSTALLED"
- "C.P.C.I.": MEANS "CONTRACTOR PROVIDED, CONTRACTOR INSTALLED"

SITE NOTES:

- RESTORE VEGETATION ON SITE TO EXISTING LANDSCAPE AREAS AND EXPOSED EARTHWORK DISTURBED/EXPOSED DUE TO CONSTRUCTION.
- THE CONTRACTOR'S USE OF THE PREMISES SHALL COMPLY WITH THE CONTRACT DOCUMENTS.
- ADDITIONAL OR ALTERNATIVE STAGING AREAS MAY BE ARRANGED THROUGH COORDINATION WITH OWNER AND ARCHITECT PRIOR TO CONTRACTOR MOBILIZATION.
- CONTRACTORS' AND CONSTRUCTION MATERIALS SHALL BE DELIVERED AT ENTRY DETERMINED IN PRE CONSTRUCTION MEETING.
- APPROXIMATE LOCATION OF STAGING AREA WITH CONSTRUCTION DUMPSTER IS SHOWN. VERIFY THAT THE STAGING AREA IS FREE OF CONSTRUCTION OBSTACLES AND SITE UTILITIES. IF NOT SHOWN, COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF WORK.

ACCESSORY PLAN SYMBOL	LAVATORY & MIRROR	SOAP DISPENSER	ELEC. HAND DRYER	PAPER TOWEL DISPENSER	URINAL	WATER CLOSET	TOLER PAPER HOLDER	SANITARY NAPKIN DISPOSAL	HOOK	ELEC. WATER COOLER	MOP HOLDER	FIRE EXTINGUISHER CABINET	MARKER BOARDS TACKBOARDS
TYP. CHLD MOUNTING HEIGHT	L: 31"; M: 36"	40"	40"	40"	U: 17" MAX, C: 48" MAX	W: 12"	N/A	N/A	40"	AS ABOVE	N/A	N/A	AS ABOVE
ADULT ACCESSIBILITY (HC)	L: 34"; K: 27"; M: 40"	44" MAX REACH HEIGHT	44" MAX REACH HEIGHT	44" MAX REACH HEIGHT	U: 17" MAX, C: 48" MAX	W: 17"; G: 34"; T: 44"; C: 18"	N/A	N/A	44" MAX REACH HEIGHT	AS ABOVE	N/A	N/A	N/A
CHILD ACCESSIBILITY (C-HC)	L: 31"; K: 24"; M: 36"	40" MAX REACH HEIGHT	40" MAX REACH HEIGHT	40" MAX REACH HEIGHT	U: 17" MAX, C: 40" MAX	W: 15"; G: 25"; T: 17"; C: 15"	N/A	N/A	40" MAX REACH HEIGHT	30"	N/A	N/A	N/A

- IF CONTRACTOR STAGING AREA DOES NOT REQUIRE FENCING, THE CONTRACTOR SHALL STILL PROVIDE SIGNAGE, TAPE BARRICADE AND/OR WARNING LIGHTS AS REQUIRED TO DESIGNATE THESE AREAS. PROVIDE FOR PUBLIC SAFETY AT ALL TIMES ON CONSTRUCTION SITE.
- COORDINATE WITH OWNER FOR SPECIAL PERMITS REQUIRED FOR ANY OBSTRUCTIONS OR TEMPORARY BLOCKAGE OF DRIVEWAYS OR PARKING AREAS AS REQUIRED DURING CONSTRUCTION TO ACCOMPLISH WORK.
- COORDINATE WITH OWNER AND ARCHITECT NUMBER AND LOCATION OF LIMITED PARKING SPACES ADJACENT TO CONSTRUCTION SITE. LOCATE CONTRACTOR'S FIELD OFFICE AND STORAGE TRAILERS WITHIN FENCED AREA. FENCING TO BE PROVIDED, MAINTAINED AND SECURED BY CONTRACTOR AS SPECIFIED.
- A SINGLE LEVEL ACCESSIBLE ROUTE, SLOPING LESS THAN 5% WITH A CROSS SLOPE LESS THAN 2% WILL BE PROVIDED FROM THE ACCESSIBLE PARKING TO THE ACCESSIBLE BUILDING ENTRY. PER TEXAS ACCESSIBILITY STANDARDS. WITHIN A 5' APPROACH OF ALL BUILDING ENTRIES, MAINTAIN A 2% SLOPE IN ALL DIRECTIONS FOR LANDING PER T&E STANDARDS.
- PROVIDE ROUGH BROOM FINISH ON ALL NEW EXTERIOR CONCRETE WALKS, UNLESS NOTED OTHERWISE.
- REMOVE ALL EXISTING CONSTRUCTION, APPURTENANCES & LANDSCAPING WITHIN THE FOOTPRINT OF NEW CONSTRUCTION.
- CONTRACTOR IS TO CONSTRUCT ALL NEW GRADES AS INDICATED. ASSUME A CONSTANT SLOPE BETWEEN RELATIVE NEW SPOT ELEVATIONS.
- SLOPE GRADE AWAY FROM NEW BUILDING A MINIMUM OF 1/2" PER FOOT FOR 10'. SLOPE NEW IMPERVIOUS SURFACES (SIDEWALKS/PAVING/FLATWORK) AWAY FROM BUILDING A MINIMUM OF 1/8" PER FOOT.
- LOCATE & MARK ALL UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION. NOTIFY UNDERGROUND UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION. REPAIR ANY DAMAGED UTILITY LINES AT CONTRACTOR'S EXPENSE.
- PROVIDE ONE PRE-CAST CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT EXTENDING 4' FROM BUILDING, UNLESS DOWNSPOUT IS TIED INTO STORM DRAIN OR DRAINS ON TO CONCRETE SURFACE. PROVIDE FACTORY FINISHED GALVANIZED STEEL, MINIMUM 6" BOX GUTTERS WITH DOWNSPOUTS AT EAVES UNLESS NOTED OTHERWISE.
- THE LIMITS OF CONSTRUCTION SHALL INCLUDE BUT NOT BE LIMITED TO 12' OUTSIDE OF ANY CONSTRUCTED OR RENOVATED AREA, NOT TO EXTEND BEYOND THE PROPERTY LINE.
- STOCKPILING OF EXCAVATED OR FILL MATERIAL WILL BE LIMITED TO AN AREA AS LOCATED ON-SITE BY THE ARCHITECT AND APPROVED BY OWNER.

DEMOLITION NOTES:

- PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING STRUCTURES TO REMAIN AND WHERE DEMOLITION WORK IS PREPARATORY TO CONSTRUCTION.
- NO EXISTING STRUCTURAL MEMBERS SHALL BE DISTURBED OR REMOVED WITHOUT SPECIFIC DIRECTION OF THE ENGINEER & ARCHITECT.
- PROTECT EXISTING SURROUNDING AREAS, STRUCTURES, AND SURFACES THAT ARE TO REMAIN. THIS SHALL PREVENT DAMAGE DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL REPAIR AND REPLACE ANY DAMAGE DURING THE COURSE OF THE WORK.
- COORDINATE ALL DEMOLITION ACTIVITIES WITH THE APPROPRIATE TRADE, AGENCY, UTILITY COMPANY, ETC., AS REQUIRED.
- ITEMS NOT INTENDED FOR REUSE OR DELIVERY TO THE OWNER WILL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE JOB SITE. CONSULT WITH THE OWNER AND ARCHITECT CONCERNING ANY MATERIALS, EQUIPMENT OR OTHER ITEMS, SUCH AS CHALKBOARDS, BEFORE DISPOSAL TO ENSURE THAT THE ITEM HAS NO VALUE TO THE OWNER.
- PROTECT ALL EXISTING UTILITY SERVICE LINES, INDICATED OR NOT, AND REPAIR AND REPLACE ANY DAMAGED UTILITY SERVICE LINES.
- NOTIFY THE OWNER BEFORE INTERRUPTION OF UTILITY SERVICE.
- ALL ITEMS, MATERIALS AND EQUIPMENT TO BE REMOVED SHALL BE REMOVED BY PERSONNEL SKILLED IN THE TRADE OF ERECTING THE WORK TO BE REMOVED.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DEFECTS IN THE CONSTRUCTION UNCOVERED DURING DEMOLITION WORK SO THAT THE NECESSARY REPAIRS OR REPLACEMENT CAN BE MADE. REPORT IMMEDIATELY TO THE ARCHITECT ANY CONDITIONS UNCOVERED DURING THE DEMOLITION WORK WHICH MAY DICTATE UNFORESEEN CHANGES IN THE WORK TO BE PROVIDED. THE ARCHITECT SHALL PREPARE REVISED OR ALTERNATE DRAWINGS WHICH MAY BE REQUIRED.
- THE EXISTING BUILDING AND SITE CONTAINS ACTIVATED MEP SERVICES AND INSTALLATIONS WHICH MAY BE CONCEALED. CUT OFF, DISCONTINUE, DEACTIVATE PRIOR TO CUTTING INTO THE WORK. PROVIDE SAFE AND SUITABLE BY-PASS LINES AS REQUIRED.
- CUTTING AND PATCHING SHALL FOLLOW ALL REQUIREMENTS OF THE CONTRACT DOCUMENT AND ACCOUNT FOR EXISTING CONDITIONS. CONTRACTOR MUST PROVIDE SUBMITTAL FOR CUTTING AND PATCHING PRIOR TO COMMENCING WORK.
- DEMOLITION PLAN IS SCHEMATIC IN NATURE AND NOT INTENDED AS AN EXHAUSTIVE ACCOUNT OF ALL ITEMS TO BE REMOVED. INSTALLATION OF NEW WORK MAY REQUIRE DEMOLITION OF EXISTING WORK. COORDINATE EXACT SCOPE OF DEMOLITION TO ACCOMMODATE ALL NEW WORK.
- CONTRACTOR SHALL COORDINATE DEMOLITION OF ALL EXISTING UTILITY SERVICE WITH THE COMPANIES PROVIDING SERVICE PRIOR TO BIDDING. OWNER SHALL ONLY PAY COST, DIRECT TO SERVICE PROVIDER, FOR THEIR PORTION OF WORK. ANY OTHER COST ASSOCIATED WITH REQUIRED SERVICES TO REMAIN ACTIVE SHALL BE INCLUDED AS PART OF SCOPE OF WORK.
- CONTRACTOR MUST PROVIDE A SUBMITTAL ACCOMPANIED BY WORK PLAN FOR DEMOLITION. THE CONTRACTOR SHALL MEET WITH OWNER AND ARCHITECT, WELL IN ADVANCE TO COMMENCEMENT OF WORK, TO REVIEW AND COORDINATE THE SUBMITTAL AND WORK PLAN.
- ALL ABANDONED UTILITIES SHALL BE CAPPED OFF BELOW SURFACE. FLAG LOCATION OF CONTINUATION OF UNDERGROUND UTILITIES OUTSIDE THE BOUNDARIES OF SCOPE OF WORK FOR OWNER.
- ANY FOUNDATIONS REMOVED SHALL BE TO BOTTOM OF GRADE BEAM. BREAK OFF TOPS OF PIERS BELOW GRADE BEAM AND ABANDON IN PLACE, UNLESS NOTED OTHERWISE. REFER TO STRUCTURAL NOTES FOR FURTHER NOTES.
- OWNER SHALL TAG ANY TREES THAT ARE NOT TO BE REMOVED WITHIN THE AREA OF WORK. BID PER PLANS FOR REMOVAL AND COORDINATE WITH OWNER ON CREDIT FOR TAGGED TREES OUTSIDE THE SCOPE INDICATED IN DRAWINGS.
- PROVIDE ALL NECESSARY REQUIREMENTS OF SW3P INCLUDING SILT FENCING, OTHER EROSION BARRICADES AND TREE PROTECTION.

RENOVATION NOTES:

- THE CONTRACTOR SHALL PROVIDE PROTECTIVE COVERING FOR CARPET, FURNISHINGS, AND FINISHES IN EXISTING AREAS NOT DESIGNATED FOR DEMOLITION OR NEW CONSTRUCTION. THE CONSTRUCTION MANAGER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY HIS WORK OR ANY SUBCONTRACTOR.
- THE CONTRACTOR SHALL MEET WITH THE OWNER'S AUTHORIZED REPRESENTATIVE WELL IN ADVANCE OF CONSTRUCTION COMMENCEMENT TO: A. SCHEDULE, SEQUENCE AND COORDINATE ALL WORK. B. MAINTAIN EXITS AND EGRESS WIDTHS REQUIRED BY CODES DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THAT NEW CEILING CAN BE INSTALLED IN EXISTING SPACES TO CLEAR DUCTWORK AND OTHER CONSTRUCTED ITEMS AND MAINTAIN FLOOR TO

- CEILING HEIGHTS INDICATED ON DRAWINGS. IF DISCREPANCIES OCCUR DUE TO EXISTING CONDITIONS, CONSULT WITH THE ARCHITECT BEFORE PROCEEDING.
- THE FINISH FACE OF MATERIAL OF NEW PARTITIONS SHALL ALIGN ON BOTH SIDES OF THE PARTITION WITH THE FACE OF THE MATERIALS ON EXISTING CONDITIONS, WALLS, OR PARTITIONS, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL VERIFY DIMENSIONS OF AS-BUILT CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. ALL INFORMATION SHOWN WITHIN THE CONTRACT DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL OR AS-BUILT CONSTRUCTION DOCUMENTS OF THE FACILITY, AS PROVIDED BY OWNER.
- THE CONTRACTOR SHALL SURVEY AND DETERMINE THE REMOVAL OF EXISTING CONSTRUCTION, EITHER WHOLE OR IN PART, AS REQUIRED FOR THE INSTALLATION OF THE NEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY CONSTRUCTION DEFECTS FOUND IN UNCOVERING WORK IN THE EXISTING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING DEFECTIVE WORK IN EXISTING CONSTRUCTION WITHIN THE LIMITS OF THE CONSTRUCTION AREA. THIS INCLUDES, BUT IS NOT LIMITED TO, UNEVEN SURFACES AND FINISHES AT PLASTER OR GYPSUM BOARD. THE CONTRACTOR SHALL PATCH AND REPAIR SURFACES TO MATCH NEAD ADJACENT SURFACES.
- ALL CONDUIT AND PIPING ABOVE GRADE AND INSIDE THE BUILDING ADJACENT BY THE CONTRACT DOCUMENTS SHALL BE INSTALLED IN AREAS WHERE IT WILL BE CONCEALED. THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT AND COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR CONDUIT AND PIPING INSTALLED IN FINISH AREAS.
- REMOVE MECHANICAL AND ELECTRICAL FIXTURES AND CAP OR REMOVE EXISTING BRANCH LINES AS INDICATED IN THE MECHANICAL AND ELECTRICAL DOCUMENTS.

FLOOR PLAN NOTES:

- CONTRACTOR SHALL VERIFY AND CORRELATE ALL DIMENSIONS ON THE JOB SITE. USE DIMENSIONS AS INDICATED. ANY DIMENSIONAL CHANGES SHALL REQUIRE NOTIFICATION OF ARCHITECT IN WRITING PRIOR TO COMMENCING WITH ANY WORK. DO NOT SCALE DIMENSIONS ON DRAWINGS.
- CONTRACTOR TO LOCATE AND LAYOUT WALLS AND PARTITIONS AS THEY RELATE TO THE STRUCTURE AND OTHER BUILDING ELEMENTS AS SHOWN ON THE DRAWINGS AND IN CONFORMANCE WITH THE DESIGN CONCEPT AND INTENT.
- ALL FLOOR PLAN DIMENSIONS ARE TO THE GRID LINES OR THE CENTERLINE OF COLUMNS AND BEAMS. THE FACE OF STUDS, FURRING OR CONCRETE MASONRY UNITS, AND WINDOW MULLIONS, UNLESS NOTED OTHERWISE, (U.N.O.)
- ALL FLOOR PLAN DIMENSIONS TO THE OUTSIDE FACE OF CONCRETE MASONRY UNIT (CMU) OR FACE BRICK VENEER EXTERIOR WALLS ARE TO THE EXTERIOR FACE OF THE EDGE OF THE CONCRETE SLAB. THESE DIMENSIONS ARE ACTUAL DIMENSIONS.
- MASONRY DIMENSIONS ARE NOMINAL AND INCLUDE AN ALLOWANCE FOR A +/- 3/8" MORTAR JOINT, U.N.O. DIMENSIONS AT MASONRY OPENINGS ARE NOTED M.O. AND THE ACTUAL OPENING DIMENSION WILL INCLUDE 3/8" FOR THE MORTAR JOINT.
- DIMENSIONS NOTED AS CLR. (CLEAR) AND O.T.O. (OUTSIDE TO OUTSIDE) ARE TO FACE OF FINISHED WALL.
- ALL PARTITIONS ARE TO EXTEND TO STRUCTURAL DECK ABOVE UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES AS INDICATED ON THE FLOOR PLANS.
- ALL FIRE RATED PARTITION CONSTRUCTION SHALL EXTEND TO THE UNDERSIDE OF HORIZONTAL FIRE RATED ASSEMBLY OR STRUCTURAL DECK ABOVE AND SHOULD INCORPORATE FIRESTOPPING AND FIRE CAULKING AS REQUIRED.
- ALL OTHER PARTITIONS SHALL EXTEND A MINIMUM OF 4" ABOVE THE FINISHED CEILING, UNLESS NOTED OTHERWISE AND SHALL BE BRACED TO THE STRUCTURE AS REQUIRED TO PREVENT MOVEMENT OR DEFLECTION.
- THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE FIRE STOPPING AND FIRE RESISTANT ASSEMBLIES OF MATERIALS AND THESE MATERIALS SHALL BE REPAIRED OR REAPPLIED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- FILL ANY IRREGULARITIES AT FULL HEIGHT FIRE RESISTANT PARTITIONS WITH INERT NONCOMBUSTIBLE FIRESAFE MATERIAL AND SEAL TIGHTLY AROUND ANY PENETRATIONS.
- PROVIDE CONCEALED FIRE TREATED WOOD BLOCKING WHERE REQUIRED FOR THE PROPER ANCHORAGE OF WALL ATTACHED ITEMS SUCH AS GRAB BARS, TOILET EQUIPPMENTS, TACK BOARDS, CASEWORK, AND ALL OTHER ITEMS OR MISCELLANEOUS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH OWNER TO PROVIDE ANY ADDITIONAL BLOCKING THEY MAY REQUIRE FOR ITEMS THEY WILL MOUNT ON WALL.
- NOTIFY THE ARCHITECT, IN WRITING, IMMEDIATELY OF DISCREPANCIES IN THE DRAWINGS, BETWEEN THE DRAWINGS AND THE SPECIFICATIONS OR BETWEEN THE DRAWINGS AND ACTUAL JOB CONDITIONS WHICH AFFECT THE EXECUTION OF THE WORK AS INTENDED. THE ARCHITECT WILL ISSUE A CLARIFICATION OR PREPARE ALTERNATE DOCUMENTS WHICH MAY BE REQUIRED.
- REFER TO FLOOR PATTERN PLAN FOR MATERIAL AND FLOORING PATTERN. REFER TO ROOM FINISH SCHEDULE FOR FLOORING TYPE.
- EMERGENCY AUDIBLE & VISUAL EXIT ALARMS SHALL BE PROVIDED PER TEXAS ACCESSIBILITY STANDARDS.
- ALL EQUIPMENT AND CASEWORK LOCATED ON AN EXTERIOR WALL IS TO BE SHIMMED 1/2" TO MAINTAIN AN AIR SPACE. AIR SPACE IS INTENDED TO PROMOTE AIR CIRCULATION AND DISCOURAGE MOLD GROWTH.
- ALL DOORS SHOWN NEAR CORNER SHALL BE ASSUMED TO HAVE A MAXIMUM DIMENSION OF 2" FROM CORNER TO EDGE OF FRAME.

REFLECTED CEILING PLAN NOTES:

- CEILING DEVICES AND LIGHTS ARE SHOWN TO INDICATE LOCATION. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL FEATURES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR INFORMATION ON ACTUAL CEILING DEVICES AND LIGHTS.
- CONTRACTOR SHALL VERIFY AND CORRELATE ALL DIMENSIONS ON THE JOB SITE.
- REFER TO THE LEGEND ON RCP SHEETS.
- COORDINATE ALL WORK WITH OTHER TRADES. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS AS REQUIRED.
- CONTRACTOR SHALL LOCATE AND LAYOUT CEILING GRIDS AS THEY RELATE TO THE BUILDING ELEMENTS AS SHOWN ON THE DRAWINGS AND IN CONFORMANCE WITH THE DESIGN CONCEPT AND INTENT.
- DIMENSIONS INDICATED ON THE REFLECTED CEILING PLAN ARE TO THE FACE OF THE STUD OR CMU, TO THE GRID LINES, AND TO THE CENTERLINE OF CEILING GRID TEES OR LIGHT FIXTURES, GRILLES, ETC. U.N.O.
- CEILING SYSTEM GRIDS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE (U.N.O.). RECESSED ELECTRICAL FIXTURES, MECHANICAL GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. SHALL BE CENTERED IN THE CEILING GRID, U.N.O.
- COORDINATE ALL WORK WITH OTHER TRADES. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS AS REQUIRED.
- REFER TO PARTITION TYPES AS INDICATED ON THE FLOOR PLANS AND AS DETAILED ON PARTITION SCHEDULE AND DETAILS SHEET.
- REFER TO ROOM FINISH SCHEDULES FOR THE CEILING SYSTEM MATERIALS. REFER TO ROOM FINISH SCHEDULE FOR CEILING HEIGHTS.
- TYPICAL CEILING TO BE 2 X 2 X 4" IN SUSPENDED ACOUSTICAL CEILING GRID SYSTEM, U.N.O., WITH ACOUSTICAL PANELS AS SCHEDULED.

- NOTIFY ARCHITECT IMMEDIATELY FOR OBSERVATION OF THE MEP WORK PRIOR TO THE INSTALLATION OF GYPSUM BOARD CEILINGS AND ACOUSTICAL CEILING TILES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHARGES INCURRED TO REMOVE AND REPLACE MATERIAL FOR OBSERVATION OF MEP WORK.
- ALL NEW INTERIOR MECHANICAL/ELECTRICAL LINES SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL LOCATE AND LAYOUT CEILING GRIDS AS THEY RELATE TO THE BUILDING ELEMENTS AS SHOWN ON THE DRAWINGS AND IN CONFORMANCE WITH THE DESIGN CONCEPT AND INTENT.
- PAINT ANY EXPOSED STRUCTURE, DUCTWORK, PLUMBING PIPING, FIRE PROTECTION PIPING, AND CONDUITS. DO NOT PAINT LABELS.

EXTERIOR ELEVATION NOTES:

- REFER TO MECHANICAL DRAWINGS FOR FREE AREA OF LOUVERS. VERIFY THAT SIZE AND LOCATION DOES NOT CONFLICT WITH CEILING HEIGHTS.
- CONTRACTOR TO COORDINATE ALL EXPANSION JOINTS AND CONTROL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION OF VENEER MATERIALS.
- PROVIDE ONE PRE-CAST CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT EXTENDING 4' FROM BUILDING, UNLESS DOWNSPOUT IS TIED INTO STORM DRAIN OR DRAINS ON TO CONCRETE SURFACE. PROVIDE FACTORY FINISHED GALVANIZED STEEL, MINIMUM 6" BOX GUTTERS WITH DOWNSPOUTS AT EAVES UNLESS NOTED OTHERWISE.
- PROVIDE MASONRY VENEER VENT TYPE WEEPS @ 24" O.C. AT VENEER BASE AND AT ALL STEEL LINENRY VENTS.
- IF INSULATION IS NOT PROVIDED AT ROOF, ENCLOSED ATTIC AND RAFTER SPACES SHALL HAVE CROSS VENTILATION BY OPENINGS EQUAL TO 1/10TH OF THE AREA. WHERE EAVE OR CORNER CORNER VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR (USE INSULATION Baffle), A MIN. 1" OF AIR SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND ROOF SHEATHING. ROOFS WITH RAFTERS, BAYS, AND/OR VAULTED CEILINGS MUST BE VENTILATED TO OUTSIDE THE RIDGE.
- PROVIDE MOCK WALL ILLUSTRATING THE FOLLOWING: INSTALLATION OF VENEER WITH FULL RANGE OF PATTERNS AND COLORS; INSTALLATION OF WALL WITH CAULKED JOINTS, WEEPS, SILL AND LINTELS AT OPENINGS; INSTALLATION OF WINDOWS WITH BLOCKING TO SECURE, FULL INSTALL OF BACK-UP WALL WITH FLASHING AT BASE, SILL AND HEADER; INSTALLATION OF MASONRY TIES. COORDINATE WITH ARCHITECT. ALL SILL, JAMB AND HEADER CONDITIONS MUST BE PROVIDING FOR APPROVAL. REFER TO CONTRACT DOCUMENTS FOR INSTALL OF AFOREMENTIONED CONDITIONS. INSTALL ANY CHANGES IN VENEER MATERIAL. THE MOCK WALL SHALL BE ERRECTED WITHIN 45 DAYS OF INITIATION OF CONTRACT.
- CONTRACTOR MUST GET OWNER'S APPROVAL OF MOCK WALL. ARCHITECT'S REVIEW OF MOCK WALL CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF REQUIREMENTS IN CONTRACT DOCUMENTS.
- IF A PRODUCT IS NOTED ON ELEVATIONS, AN EQUAL CAN BE SUBMITTED IF THEY MATCH COLOR, PATTERN, TEXTURE AND OTHER SPECIFICATION CHARACTERISTICS AND STANDARDS OF THE NOTED PRODUCT.
- CONTRACTOR SHALL SUBMIT ALL MATERIALS REQUIRING EXTERIOR COLOR SELECTION TO ARCHITECT WITHIN 30 DAYS FOR SELECTION AT ONE TIME AND APPROVAL OF OWNER.

INTERIOR ELEVATIONS NOTES:

- CONTRACTOR SHALL MOCK UP ONE ROOM OF TYPICAL SPACES SUCH AS INSTRUCTIONAL CLASSROOMS, LABORATORIES, OFFICES AND COMPUTER LABS FOR OWNER'S APPROVAL AND ARCHITECT'S REVIEW OF LOCATION FOR OUTLETS, SWITCHES, CONTROLS AND ANY OTHER DEVICES THAT ARE MOUNTED INTO WALL.
- LOCATION OF OUTLETS, SWITCHES AND CONTROLS SHALL BE COORDINATED WITH ELEVATION TO AVOID CONFLICT WITH CASEWORK AND EQUIPMENT INSTALLED AGAINST WALL. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR SHALL COORDINATE PLACEMENT OF BLOCKING IN WALL TO SUPPORT ITEMS IN DOCUMENTS MOUNTED TO WALL. CONTRACTOR SHALL COORDINATE WITH OWNER TO PROVIDE ANY ADDITIONAL BLOCKING THEY MAY REQUIRE FOR ITEMS THEY WILL MOUNT ON WALL.
- ALL EQUIPMENT AND CASEWORK LOCATED ON AN EXTERIOR WALL IS TO BE SHIMMED 1/2" TO MAINTAIN AN AIR SPACE. AIR SPACE IS INTENDED TO PROMOTE AIR CIRCULATION AND DISCOURAGE MOLD GROWTH.
- THE LENGTHS OF ALL CASEWORK IN A ROOM SHALL BE FIELD VERIFIED BEFORE MANUFACTURING AND INSTALLATION. CABINETS ARE TO BE SIZED TO FIT WITH LENGTH AND MINIMIZE FILLER. IF FILLER PANEL IS REQUIRED, IF FLOOR PLANS OR ELEVATIONS INDICATE FURNITURE OR EQUIPMENT, CABINETS SHALL BE SIZED TO ACCOMMODATE INSTALLATION OF THIS FURNITURE OR EQUIPMENT; COORDINATE WITH OWNER FOR EXACT SIZES. PROVIDE NOTCHES FOR UNDER-COUNTER LIGHTING AS NEEDED.
- CONTRACTOR SHALL SUBMIT ALL MATERIALS REQUIRING INTERIOR COLOR SELECTION TO ARCHITECT WITHIN 60 DAYS FOR SELECTION AT ONE TIME AND APPROVAL OF OWNER.
- PROVIDE CONTROL & EXPANSION JOINTS AS REQUIRED PER SPECS AND DETAILS; COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
- MOUNTING HEIGHTS: SEE "TYP. MOUNTING HEIGHTS" DIAGRAM BELOW FOR TYPICAL MOUNTING HEIGHTS. WHERE "HC" IS LABELED ON INTERIOR ELEVATIONS OR FLOOR PLANS, USE "ADULT ACCESSIBILITY" DIMENSION AS GIVEN. WHERE "CHC" IS LABELED ON INTERIOR ELEVATIONS OR FLOOR PLANS USE "CHILD ACCESSIBILITY" DIMENSION AS GIVEN. ALL TOILET ROOM FIXTURES AND ACCESSORIES, MARKERBOARDS AND TACKBOARDS WILL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS FOR AGE GROUP SERVED. NO CONTROLS SHALL BE MOUNTED HIGHER THAN ALLOWED PER TEXAS ACCESSIBILITY STANDARDS.
- ALL MARKERBOARDS SHALL HAVE MAGNETIC SUBSTRATE.
- DRINKING FOUNTAINS WILL BE PROVIDED MEETING THE REQUIREMENTS TEXAS ACCESSIBILITY STANDARDS INCLUDING WITH CONTROLS AND SPOUT MOUNTED NEAR THE FRONT EDGE.

FINISH NOTES:

- PAINT/FINISH ALL WALLS, TRIM, DOORS, WINDOWS, CEILINGS, MECHANICAL/PLUMBING/ELECTRICAL NOT FACTORY FINISHED. PAINT 12X12" AREA OF WALL FOR REVIEW BY ARCHITECT AND OWNER APPROVAL OF ACCENT PAINT COLORS.
- PAINT WALL AND ANY EXPOSED STRUCTURE, MECHANICAL, PLUMBING PIPING, FIRE PROTECTION PIPING, ELECTRICAL NOT FACTORY PAINTED. DO NOT PAINT LABELS.
- PROTECT ANY CONCRETE FLOORS SCHEDULED TO BE STAINED OR SEALED. COORDINATE WITH OWNER AND ARCHITECT FOR SCORING AT STAINED/SEALED CONCRETE FLOORS. PROVIDE FOR INSTALLATION OF UP TO 4 SAMPLES OF CONCRETE STAIN SAMPLES FOR OWNER/ARCHITECT EVALUATION. COORDINATE AREA TO BE SAMPLED WITH OWNER/ARCHITECT.
- INSTALL TRANSITION STRIPS AT ALL AREAS WHERE FLOORING CHANGES OCCUR. COORDINATE LOCATION OF TRANSITION STRIPS WITH ARCHITECT WHERE FLOORING TRANSITIONS OCCUR WITHIN A SPACE.
- CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL FINISHED SURFACES, EXISTING OR NEW INCLUDING BUT NOT LIMITED TO CERAMIC TILE, VINYL TILE, CONCRETE, MASONRY ETC., THROUGHOUT THE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE FINISHES ARE NOT DAMAGED BY OTHER TRADES. CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST TO REPAIR OR REPLACE FINISHES TO MEET OWNER'S APPROVAL.

PARTITION NOTES:

- UNLESS SCHEDULED OR NOTED OTHERWISE IN SPECIFICATIONS, SUBSTITUTE MOISTURE RESISTANT, FIBERGLASS FACED GYPSUM BOARD FOR REGULAR GYPSUM BOARD AT ALL WALL TILE LOCATIONS AND RESTROOMS LOCATIONS. SUBSTITUTE CEMENTITIOUS BACKER BOARD AT SHOWER WALL TILE LOCATIONS. WHERE CERAMIC TILE AND METAL STUDS ARE SCHEDULED, USE MINIMUM 20 GA. STUDS AT 16" O.C.
- SCRIBE GYPSUM BOARD AT FIRE RESISTANT PARTITIONS TO THE IRREGULARITIES OF THE STRUCTURE OR ADJACENT MATERIALS TO FIT TIGHT. SEAL THOROUGHLY AROUND ANY PENETRATION AND JOINTS. USE ANY OTHER IRREGULAR SPACES AT FULL HEIGHT FIRE RESISTANT PARTITIONS WITH INERT NON-COMBUSTIBLE FIRE-SAFE MATERIAL TO PROVIDE TIGHTLY SEALED FIRESTOPPING.
- CONTRACTORS ARE RESPONSIBLE FOR COORDINATING LOCATION OF ALL BLOCKING OR SUPPORTS AS REQUIRED FOR INSTALLATION OF ITEMS ON PARTITIONWALLS. PROVIDE CONCEALED WOOD BLOCKING OR METAL STRAPPING AND/OR SUFFICIENT STUD GAUGE FOR NON-COMBUSTIBLE OR FIRE RATED PARTITIONS AS REQUIRED FOR THE PROPER ANCHORAGE OF WALL ATTACHED ITEMS SUCH AS, BUT NOT LIMITED TO, GRABBARS, TOILET ACCESSORIES, TACKBOARDS, MARKERBOARDS, CASEWORK, TV MOUNTS, INTERACTIVE WHITEBOARDS, WALL STOPS, AND ALL OTHER ITEMS OR MISCELLANEOUS EQUIPMENT. NOTE THAT SOME ITEMS ARE OWNER PROVIDED AND REQUIRE COORDINATION FOR REQUIRED SUPPORT ON PARTITIONS.
- WHEN PARTITIONS ARE TO STRUCTURE, NOTE THAT IT IS THE FIRST INTERSECTING STRUCTURE, SUCH AS A MEZZANINES OR FLOOR ASSEMBLIES. REFERENCE BUILDING SECTIONS.
- ALL INTERIOR WALLS TO HAVE SOUND BATTING TO FILL CAVITY, EXCEPT WHERE JANITOR CLOSETS, STORAGE ROOMS OR CHASE WALLS SHARE A COMMON WALL WITH EACH OTHER.
- ALL WALLS THAT DO NOT GO TO STRUCTURE TO HAVE SOUND BATTING DRAPED OVER WALL TO 2'-0" EACH SIDE.
- DO NOT BRACE INTO AREAS THAT ARE OPEN TO STRUCTURE.
- IF PRE-ENGINEERED METAL BUILDING STRUCTURE IS USED, IT IS THE RESPONSIBILITY OF THE PEMB CONTRACTOR TO HAVE THEIR ENGINEER PROVIDE ALL REQUIRED BRACING FOR PARTITIONS.
- AT SOUND WALLS SOUND BOARD IS TO BE USED ON SIDE OF PARTITIONS WITH SOUND ISOLATION ROOM PER ROOM FINISH SCHEDULE. IF A SOUND WALL IS CALLED OUT BETWEEN TWO ROOMS NOTED AS SOUND ISOLATION ROOMS PER ROOM FINISH SCHEDULE, USE SOUND BOARD ON BOTH SIDES, UNLESS NOTED OTHERWISE.

DOOR NOTES:

- ALL GLAZING IN DOORS SHALL BE TEMPERED.
- THRESHOLDS: NEWLY CONSTRUCTED OPENINGS WITH CHANGES IN FLOOR LEVEL SHALL NOT BE MORE THAN 1/2" CHANGES IN LEVEL BETWEEN 1/2" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 TYPICAL AT ALL LOCATIONS THRESHOLDS ARE REQUIRED.
- DOOR HARDWARE AT ALL EGRESS DOORS SHALL ALLOW DOORS TO BE OPENED WITHOUT KEY OR SPECIFIC KNOWLEDGE. IF AN EXTERIOR DOOR IS SCHEDULED TO BE EQUIPPED WITH A KEY-OPERATED LOCKING DEVICE FROM THE EGRESS SIDE, A SIGN SHALL BE PROVIDED STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" WITH 1" HIGH CONTRASTING LETTERS.
- GLAZING IN FIRE RATED DOORS SHALL MEET FIRE RATING FOR ASSEMBLY.
- DOOR ASSEMBLY AT SOUND RATED WALLS SHALL COMPLY WITH INTENDED STC RATING FOR DOOR, GLAZING, FRAME AND HARDWARE.

WINDOW/GLAZING NOTES:

- GLAZING WITHIN 24" OF EITHER SIDE OF ANY DOOR SHALL BE TEMPERED, UNLESS NOTED OTHERWISE.
- GLAZING GREATER THAN 9 SF IN AREA WITH A BOTTOM EDGE LESS THAN 18" ABOVE (AND IN HORIZONTALITY WITH IN 36") OF A WALKING SURFACE SHALL BE TEMPERED.
- WINDOW LATCHED SHALL BE AT BOTTOM OF LOWER SASH.
- WINDOWS AT SOUND RATED WALLS SHALL COMPLY WITH INTENDED STC RATING FOR GLAZING AND FRAME.

MEZZANINE NOTES:

- ALL RAILING SHALL BE CONTINUOUS ALONG ALL SIDES OF THE MEZZANINE. AT BREAKS FOR POINTS OF ACCESS, PROVIDE LADDER AS NOTED ON MEZZANINE PLAN. REFER TO DETAILS FOR MEZZANINE AND RAILING ON MEZZANINE PLAN SHEET.
- PROVIDE PAINTED PLYWOOD, ON WALL, AT LOCATION OF LADDERS TO PROTECT SURFACE FROM DAMAGE. REFER TO LADDER DETAILS ON INTERIOR DETAILS SHEET.
- PROVIDE PAINTED 2X6 AT TRANSITION OF WALL AND MEZZANINE TO PROTECT EDGE.
- AT COLD FORMED METAL MEZZANINES, FLOOR JOIST SHALL BE A MINIMUM OF 10" CSJ @ 16" O.C., UNLESS OTHERWISE NOTED.
- ALL SUPPORTING WALLS SHALL BE 6" 16GA. METAL STUD OR 6" CMU WITH GROUTED CELLS @ 16" O.C. W/ REBAR AS REQUIRED FOR SUPPORT OF MEZZANINE AND OTHER STRUCTURES.

ROOFING NOTES:

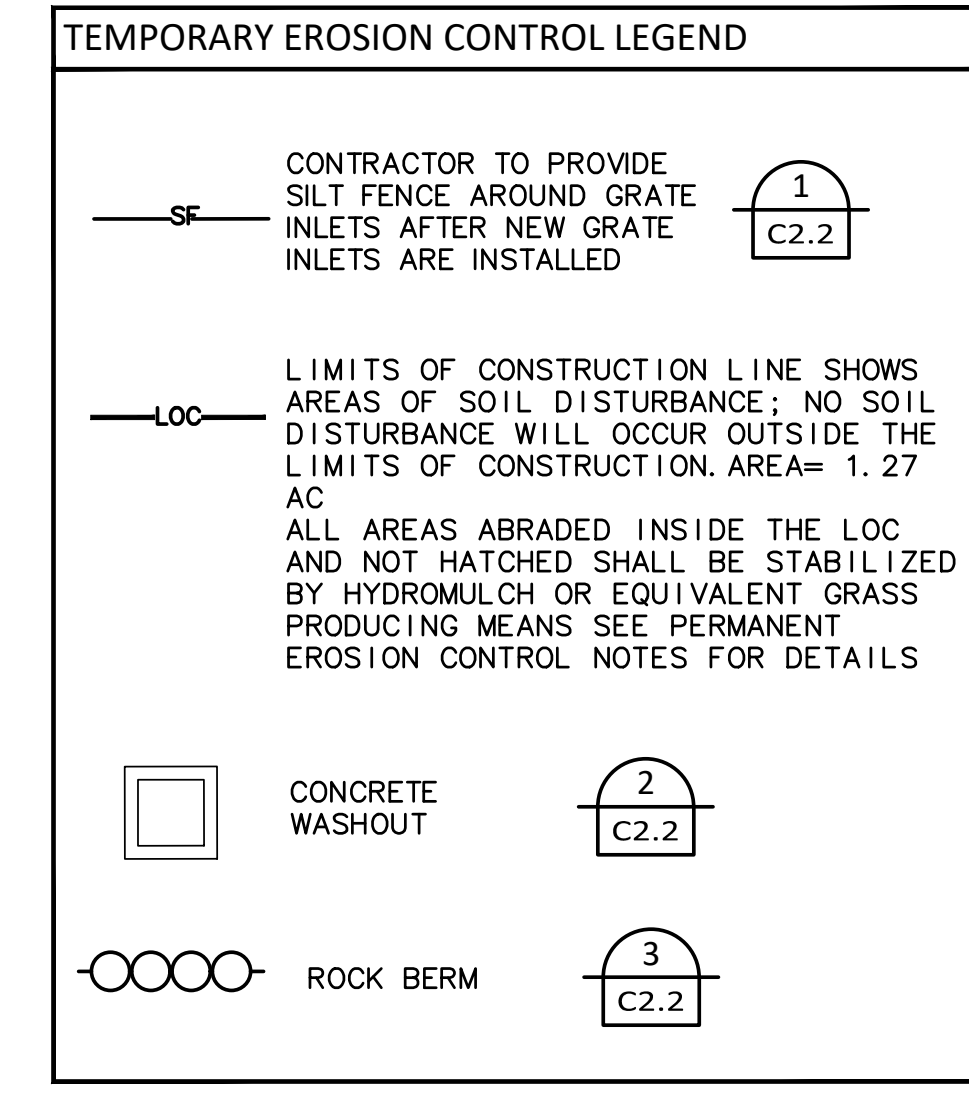
- COORDINATE INSTALLATION OF NEW ROOFING WITH OTHER TRADES. REPORT ANY CONFLICTS WITH ITEMS INSTALLED BY OTHER TRADES TO ARCHITECT.
- ALL DOWNSPOUTS THAT OUTLET TO SURFACE SHALL HAVE SPLASHBLOCK PROVIDED.
- REFER TO CIVIL DRAWINGS FOR ROOF DRAINAGE THAT IS TIED INTO AND CONTINUES TO STORM SEWER.
- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS, PIPING AND CONDUIT PENETRATIONS. FLASH ALL ROOF PENETRATIONS, SKYLIGHTS, PARAPETS AND ROOF CURBS PER ROOFING MANUF.
- ALL ROOF CURBS FOR NEW ROOFTOP EXHAUST FANS, HVAC UNITS AND CONDENSING UNITS SHALL HAVE CURB HEIGHTS THAT WILL ALLOW FOR A MINIMUM OF 8" BASE FLASHING HEIGHTS FOR THE ROOF SYSTEM.
- ALL PLUMBING VENTS SHALL EXTEND ABOVE THE FINISHED SURFACE OF THE ROOF SYSTEM AS REQUIRED TO PROVIDE FOR A MINIMUM OF 8" BASE FLASHING.
- PROVIDE 36" WIDE WALK PADS @ SERVICE SIDE OF ALL MECH. EQUIPMENT & PROVIDE 36" WIDE WALK PADS AROUND ALL ROOF HATCHES & 72X72" PADS AT LADDERS.
- ALL TAPERED INSULATION TO BE 1/4" PER FOOT MIN. SLOPE TO DRAIN. ROOF PLAN SHOWS TAPERED INSULATION FOR GRAPHIC REPRESENTATION ONLY. CONTRACTOR TO VERIFY INSULATION REQUIRED TO SLOPE PRIOR TO MEMBRANE INSULATION.
- PROVIDE TAPERED INSULATION CRICKETS 1/4" PER FOOT MIN. SLOPE @ HIGH SIDE OF ALL MECHANICAL UNITS AND ROOF HATCHES, TO SHED WATER AROUND AND MAINTAIN POSITIVE ROOF DRAINAGE.
- ALL WOOD BLOCKING AT ROOF EDGES, RIDGES, ETC. TO BE 2X TREATED WOOD BLOCKING.
- VERIFY ELEVATION OF ROOF DRAIN RELATIVE TO OVERFLOW SCUPPER PRIOR TO INSTALLATION OF SCUPPERS
- PROVIDE SUPPORTS FOR PIPES AND CONDUIT ON ROOF AS REQUIRED ALONG RUNS.

CLEAR SPAN	EXTERIOR ANGLES FOR 4" MASONRY	NOTES:
4'-0" OR LESS	3-1/2x3-1/2x5/16	1. PROVIDE 8" MINIMUM BEARING FOR ALL STEEL ANGLE LINTELS. PROVIDE CONTINUOUS LINTEL ANGLES BETWEEN ADJACENT EXTERIOR OPENINGS SEPERATED BY 2'-0" OR LESS.
5'-0"	3-1/2x3-1/2x5/16	2. THIS TABLE APPLIES ONLY TO NON-LOAD BEARING WALLS. ANY LINTELS IN LOAD BEARING WALLS SHALL BE AS NOTED ON ARCHITECTURAL OR STRUCTURAL DETAIL SECTIONS.
6'-0"	3-1/2x3-1/2x5/16	3. IN THE CASE OF MASONRY VENEER WALLS WITH BLOCK BACK-UP, THE LINTEL FOR THE VENEER SHALL BE SELECTED FROM THIS TABLE. REFER TO CONCRETE BLOCK LINTEL SCHEDULE FOR THE BACK-UP LINTELS.
7'-0"	4x3-1/2x5/16	4. PROVIDE HORIZONTAL EXPANSION JOINTS AT EACH END OF VENEER MASONRY LINTELS. PROVIDE FLASHING END DAMS IN ACCORDANCE WITH THE B.I.A. TECH NOTE NUMBER 1.
9'-0"	4x3-1/2x3/8	5. MEMBER SIZES INDICATED WITHIN THIS TABLE SHALL ONLY SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THIS SET OF PLANS AND SHALL NOT SUPERSE



ENVIRONMENTAL NOTES

- The owner or operator of this site must develop a maintenance plan for the structural stormwater controls and submit it before a Temporary Certificate of Occupancy is granted. Documentation of maintenance performed must be made available for review by the small MSA.
- SWPPP is required for submittal and review at least 3 days prior to the scheduling of a pre-con. A Notice of Intent (NOI) must be submitted to the TCEQ for any site that is a minimum of 5 acres; or, any site that meets the criteria of a larger common plan of development.
- An initial site inspection must be conducted by the City or County to verify that all erosion and sediment controls have been properly installed and per the plan. Approval by the city must be given before construction can begin.
- All erosion and sediment controls must be properly maintained per the SWP3 plan throughout the duration of the project. Any off-site discharge must be immediately addressed, ESPECIALLY TRASH AND SEDIMENTS.
- Install the following inlet marker at every inlet: Almetek 4" DISC "No Dumping Drains to Creek" Marker, SD-A-4R-03-01-BLNA, Aluminum, Symbol: Fish, Color: Blue, Use Almetek install specifications for surface w/adhesive for dry concrete install.
- All disturbed areas must be re-vegetated. A minimum uniform coverage of 90% or more, at a height of 1.5 inches and no bare areas greater than 10 sq. ft. is paramount before Final Site Approval. It is highly recommended that re-vegetation is initiated early in order to meet the city's stabilization standards before the final walk-through.
- Sod, or a combination of Hydra-seed / mulch with a geo textile must be used for the stabilization of slopes or vegetated drainage ways.



TEMPORARY EROSION CONTROL NOTES

- The contractor shall install erosion / sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing or excavation.)
- The placement of erosion / sedimentation controls shall be in accordance with the approved Erosion and Sedimentation Control Plan.
- The placement of tree / natural area protective fencing shall be in accordance with the approved Grading / Tree and Natural Area Plan.
- A pre-construction conference shall be held on-site with the contractor, design engineer/permit applicant and Environmental Inspector after installation of the erosion / sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The contractor shall notify the City, at least three days prior to the meeting date.
- Any significant variation in materials or locations of controls or fences from those shown on the approved plan must be approved by the reviewing Engineer, Environmental Specialist or City Arborist as appropriate.
- The contractor is required to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.
- Prior to final acceptance by the City, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.
- Field revisions to the Erosion and Sedimentation Control Plan may be required by the Environmental Inspector during the course of construction to correct control inadequacies. Major revisions must be approved by the City.

TREE PROTECTION NOTES

- A ROOT PROTECTION ZONE WILL BE ESTABLISHED AROUND EACH TREE OR ANY VEGETATION TO BE PRESERVED TO MEET THE LANDSCAPE OR TREE PRESERVATION ORDINANCES. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY THE RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH INCH DIAMETER INCH AT BREAST HEIGHT (4.5') OF THE TREE. A 10-INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
- NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING WILL BE A MINIMUM OF 4' HEIGHT.
- ALL ROOTS LARGER THAN ONE-INCH IN DIAMETER ARE TO BE CUT CLEANLY AND OAK WOUNDS PAINTED WITHIN 30 MINUTES.
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE ROOT PROTECTION ZONE. NO CLEAN-OUT AREAS WILL BE CONSTRUCTED SO THAT THE MATERIAL WILL BE IN OR MIGRATE TO THE ROOT PROTECTION ZONE.
- NO GRADE CHANGE MORE THAN 3 INCHES MARKED IS ALLOWED WITH THE ROOT PROTECTION ZONE.

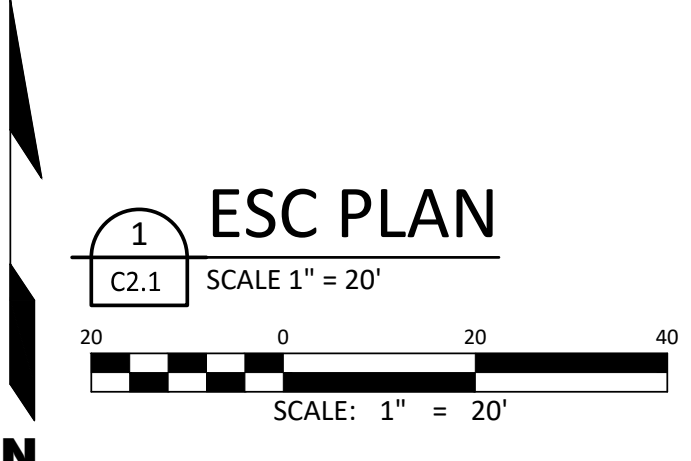
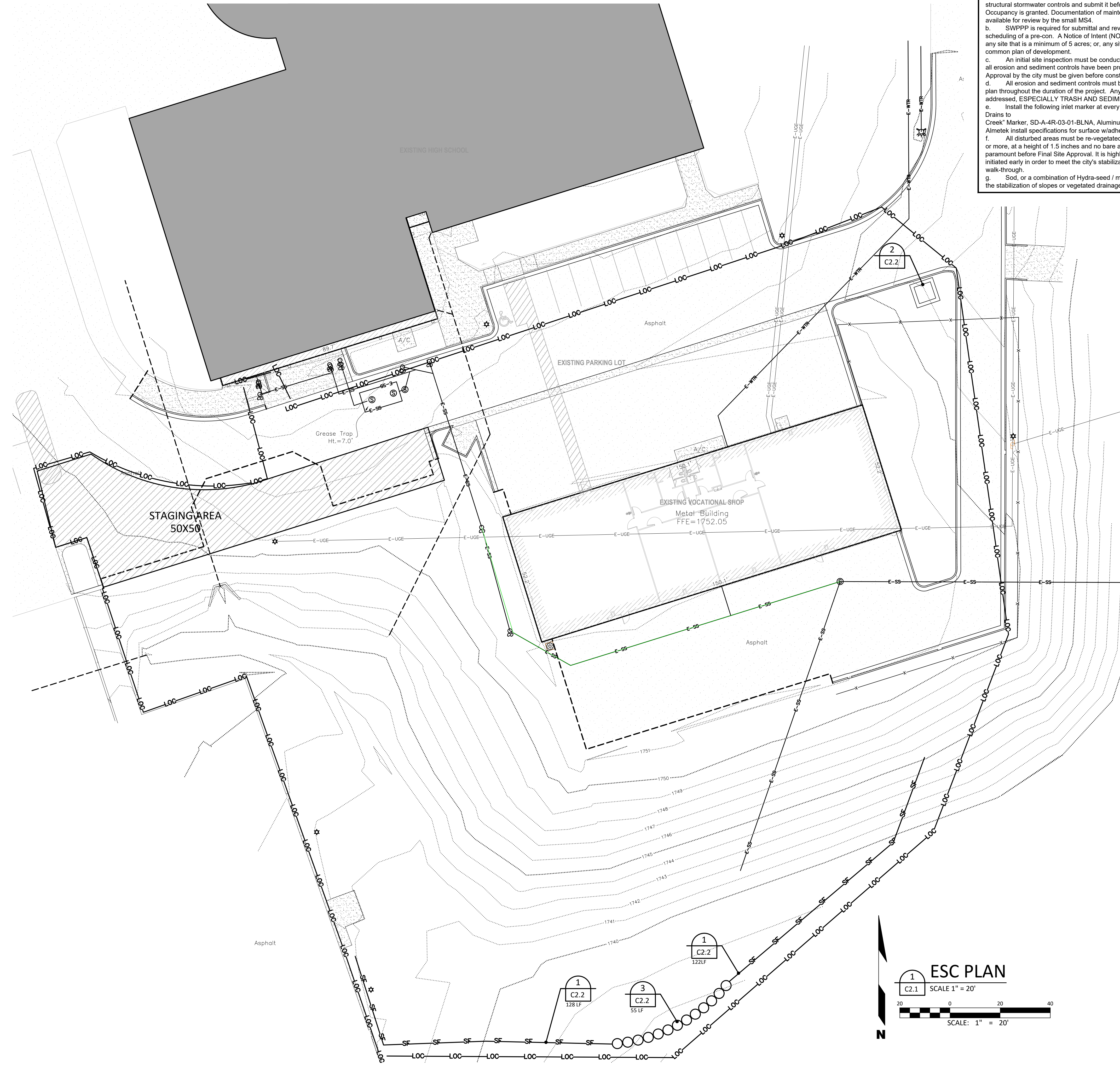
TEXAS POLLUTION DISCHARGE ELIMINATION NOTES

The Erosion Sedimentation control plan is provided for review and approval purposes and does NOT limit the responsibility of the Contractor to satisfy all of the requirements for Contractor's compliance with the Texas Pollution Discharge Elimination System Rule (TPDES) General Permit (TXR150000) and/or the TPDES Multi-Sector General Permit (TXR 050000).

Contractor is required to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP) as required by Storm Water Pollution Prevention for Construction. The site is larger than 1 acre and the Contractor is required to develop its own Storm Water Pollution Prevention Plan (SWP3) utilizing the Best Management Practices (BMP) as required by EPA and TCEQ. A copy of the Notice of Intent NOI shall be posted at the entrance to the site with all other EPA and TCEQ required postings. Contractor shall be responsible for the required SWP3.

Contractor may subcontract with an Environmental Consulting Services firm to provide services to comply with all the Storm Water Compliance. These services may include: (1) Storm Water Permitting, (2) Storm Water Pollution Prevention Plans (SWP3) as required by Federal, Texas State, and local Regulatory agencies, (3) Storm Water Site Postings, and (4) Required Site Inspections of non-compliant conditions, maintenance and other site conditions necessitating corrections to satisfy EPA and TCEQ and City Jurisdiction.

At the completion of the project, after the permanent erosion controls are established, the Contractor shall file a Notice of Termination (NOT) and maintain said such records for a period of at least 3 years after the date given in the NOT.



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Brady Independent School District
Bond 2018
Brady, Texas

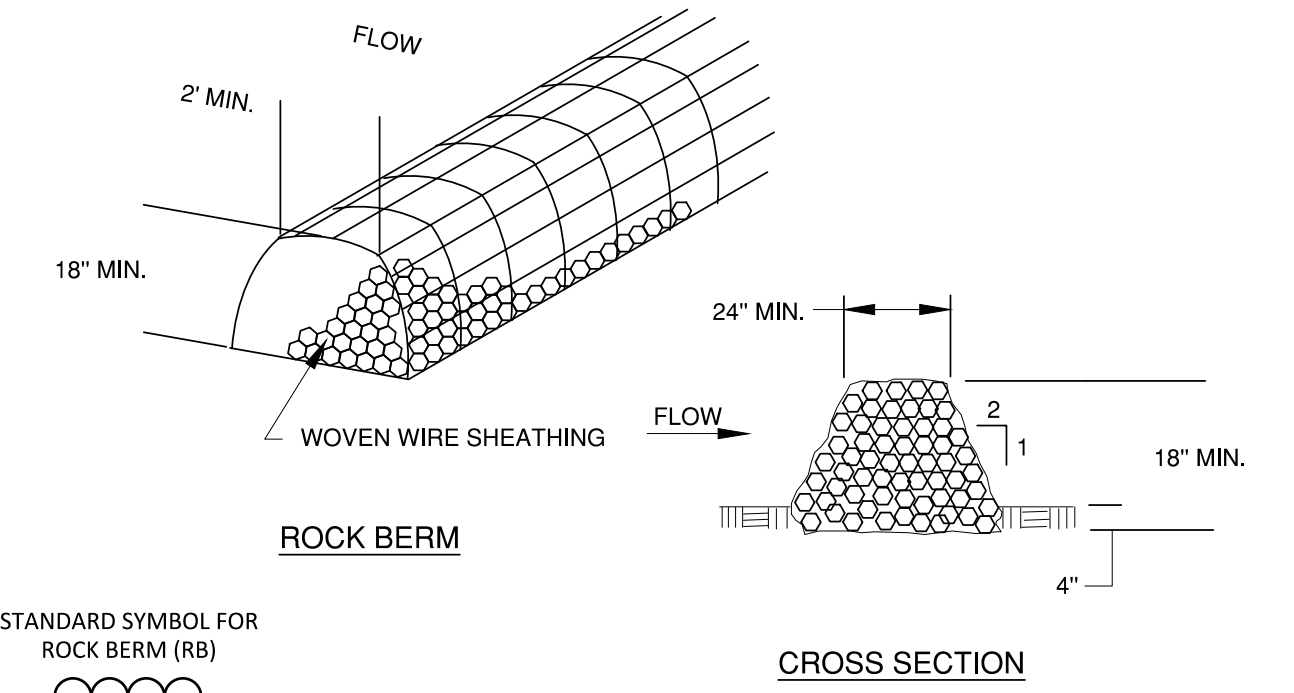
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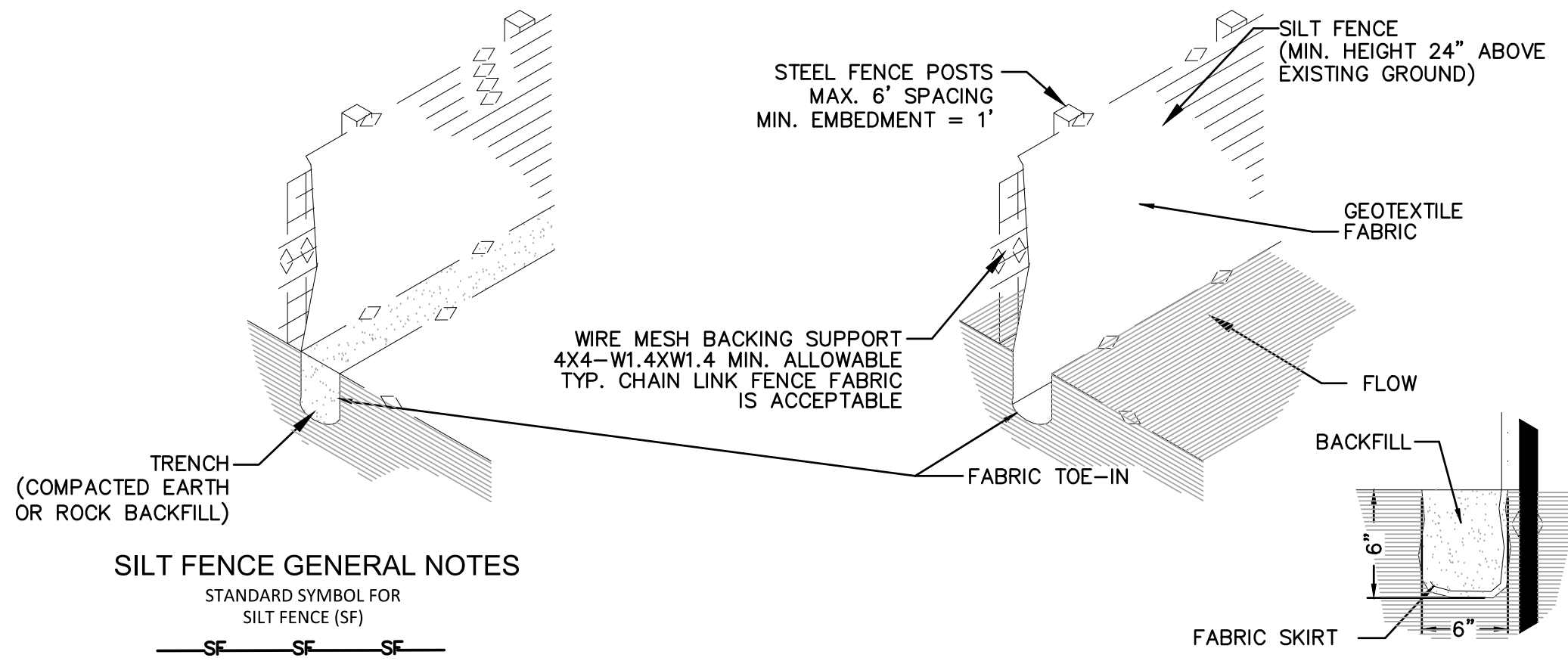
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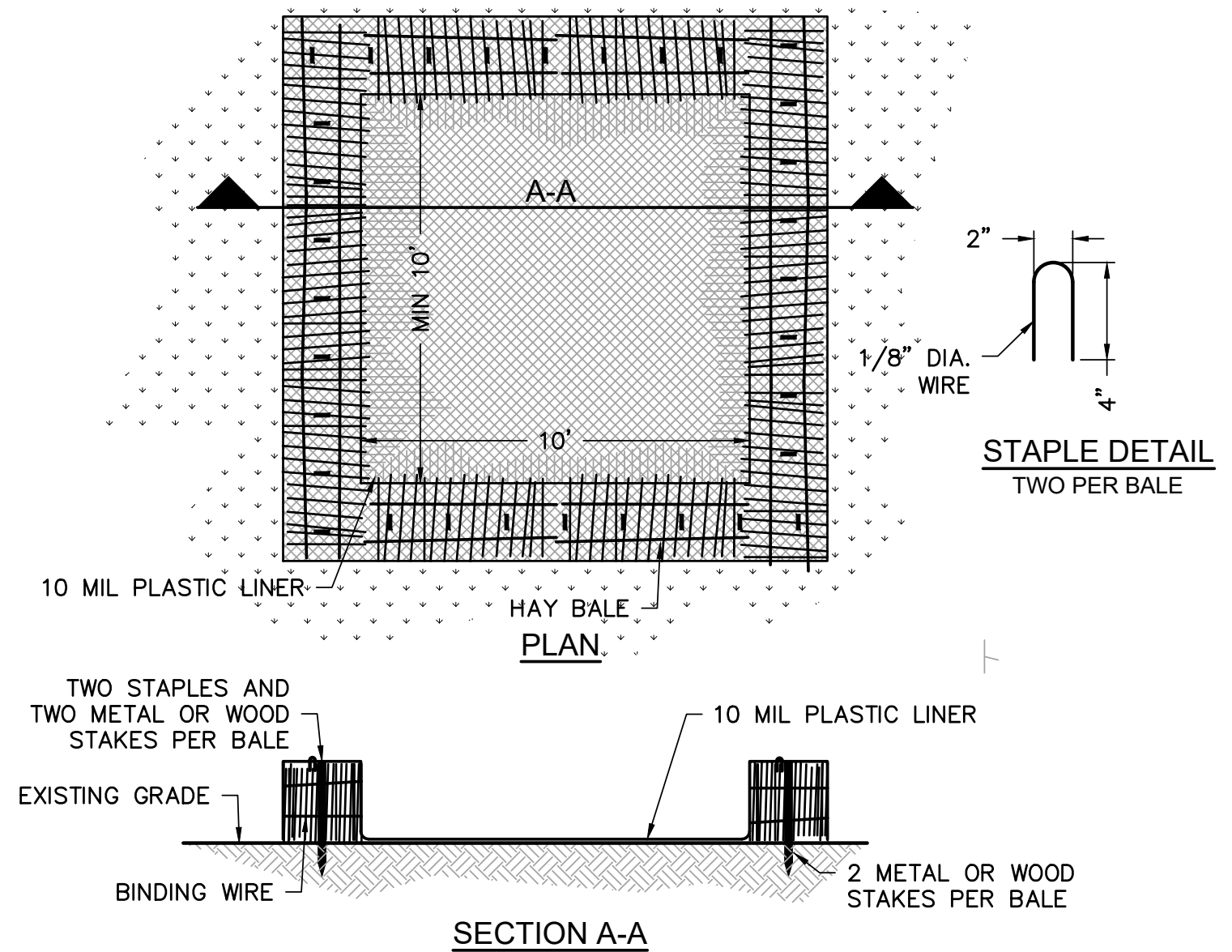
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- MATERIALS**
1. THE BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1" AND MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
 2. CLEAN OPEN GRADED 3 TO 5 INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5 TO 8 INCH DIAMETER ROCK MAY BE USED.
- INSTALLATION**
3. LAYOUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENING.
 4. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
 5. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM (FIGURE 1.29 OF RG-348) TO A HEIGHT NOT LESS THAN 18"
 6. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH THE WIRE SO THAT THE END OF SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
 7. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
 8. THE END OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.
- COMMON TROUBLE POINTS**
9. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER TOP OR AROUND SIDES OF BERM)
 10. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND OR OVER BERM)
 11. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PART. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTION SHOULD BE MADE.
 12. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT OF IN AN APPROVED MANNER.
 13. REPAIR ANY LOOSE WIRE SHEATHING
 14. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION
 15. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
 16. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS AREA STABILIZED AND ACCUMULATED SILT REMOVED.



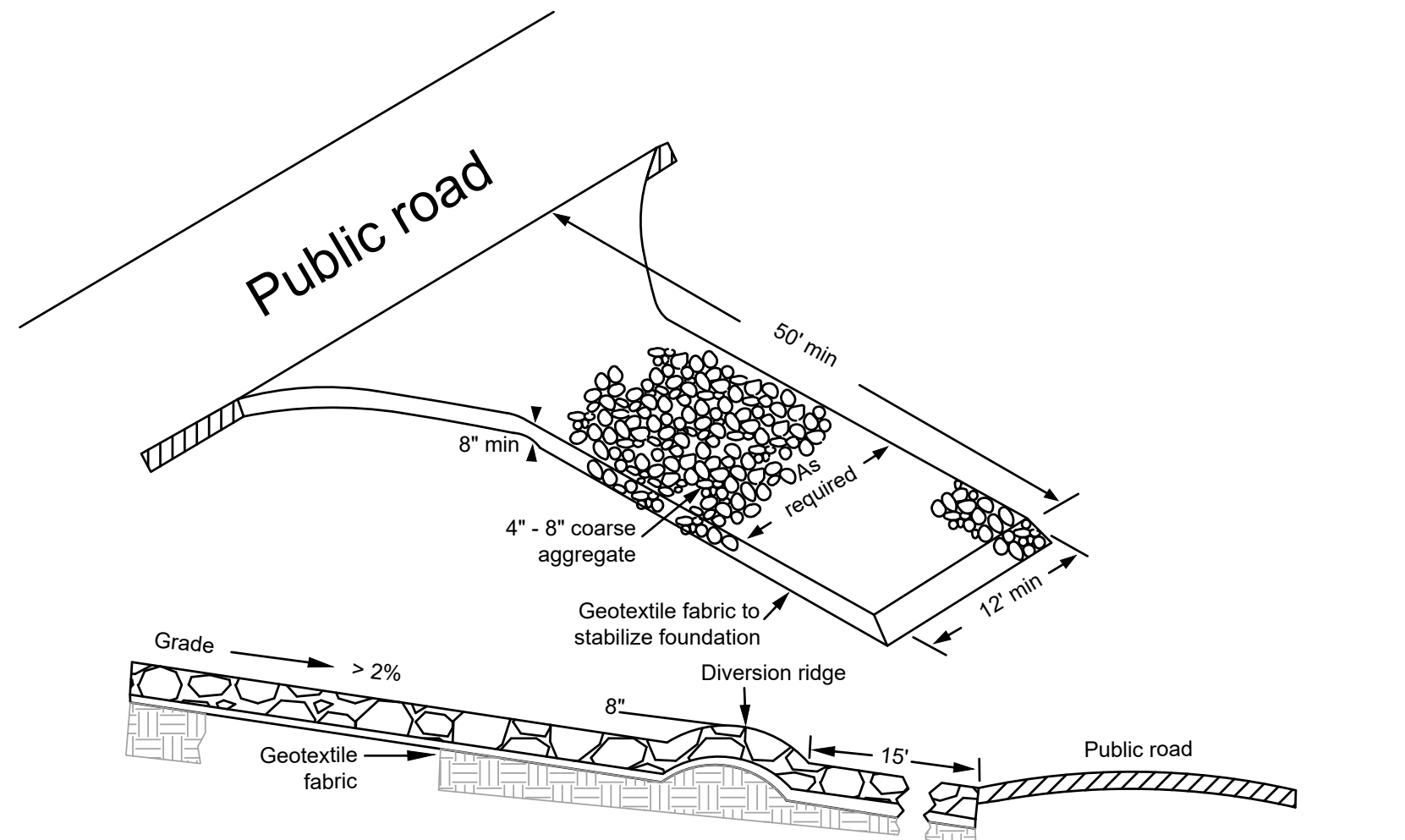
- SILT FENCE GENERAL NOTES**
- STANDARD SYMBOL FOR SILT FENCE (SF)
- MATERIALS**
1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN², ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.
 2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION. SURFACE PAINTED OR GALVANIZED. MINIMUM NOMINAL WEIGHT 1.25 LB/FT, AND BRINDELL HARDNESS EXCEEDING 140. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.
- INSTALLATION**
3. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT MAXIMUM DRAINAGE ARE IS 1/4 ACRE/100 FEET OF FENCE.
 4. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
 5. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
 6. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
 7. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- COMMON TROUBLE POINTS**
8. FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO CONCENTRATE AND FLOW OVER THE FENCE. (2) FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER FENCE)
 9. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND SIDES)
 10. FENCE TREATING TOO LARGE AN AREA, OR EXCESSIVE CHANNEL FLOW (RUNOFF OVERTOPS OR COLLAPSES FENCE)
- INSPECTION AND MAINTENANCE GUIDELINES**
11. INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL.
 12. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES. REPLACE ANY TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.
 13. REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.



2 ABOVE GRADE CONCRETE WASHOUT
C2.2 NOT TO SCALE

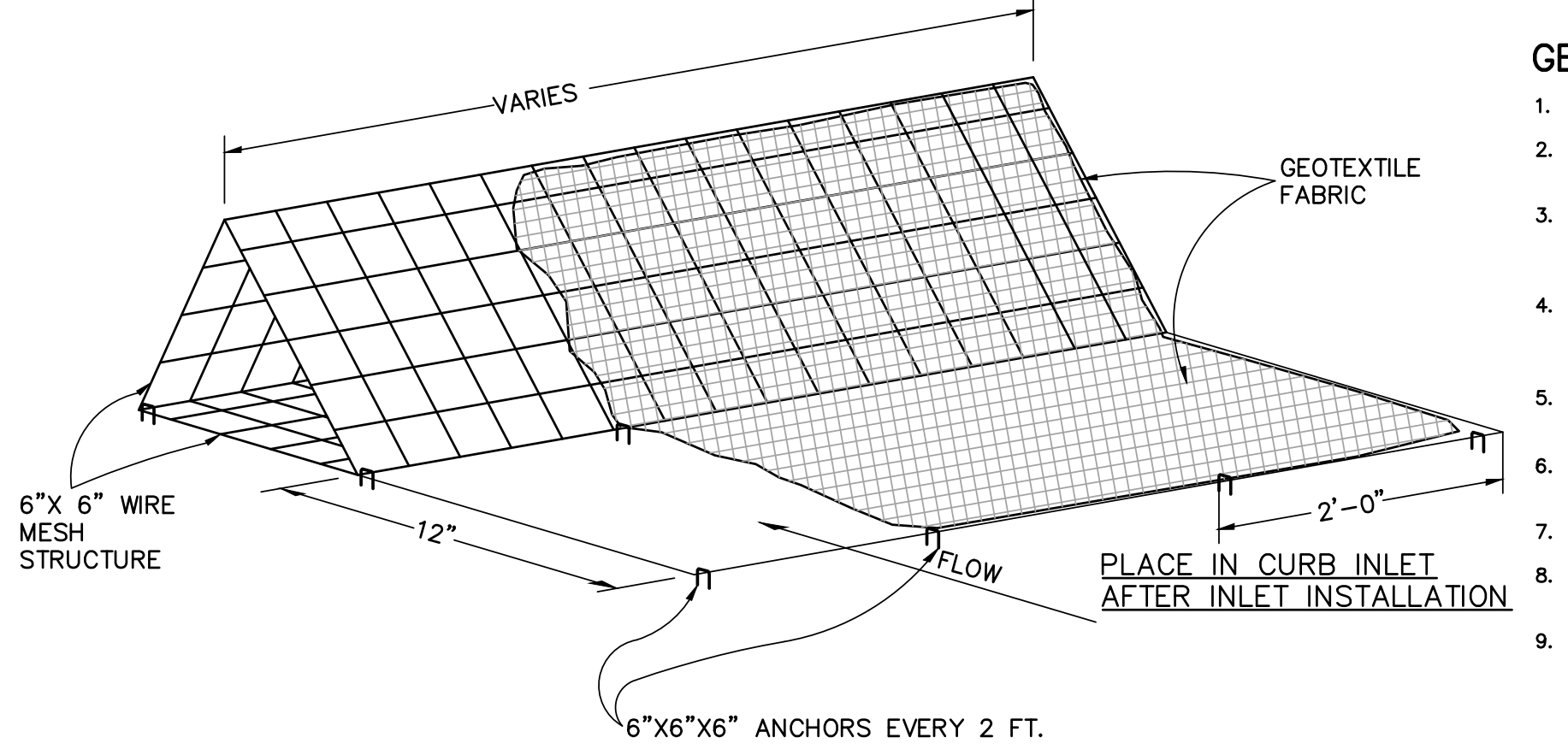
3 ROCK BERM
C2.2 NOT TO SCALE

1 SILT FENCE
C2.2 NOT TO SCALE

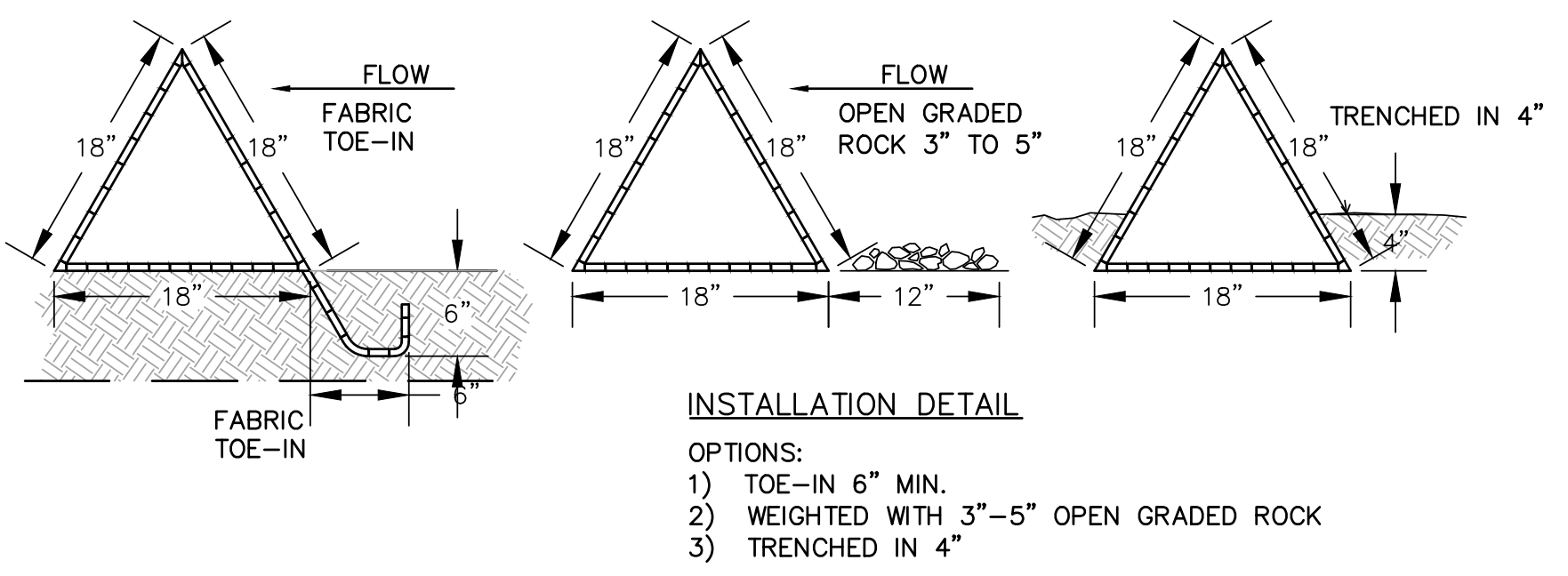


- Notes:**
1. Use 4 to 8 inch washed stone and place with a minimum thickness of 8 inches.
 2. Use geotextile fabric with an approximate weight of 4 oz/yd² as needed to improve stability.
 3. The minimum width of the entrance/exit should be 12 feet or the full width of exit roadway, whichever is greater.
 4. The construction entrance should be at least 50 feet long.
 5. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin if necessary.
 6. Inspect entrance/exit after each rain event (of 0.5 inch or more). Repair any damage by adding stone and/or cleaning any measures used to trap sediment.
 7. Promptly remove all sediment spilled, dropped, washed or tracked onto public rights-of-way. Dispose of sediment in a manner that will not cause additional siltation.
 8. When construction is complete, properly dispose of any sediment buildup and restore the prior location of the entrance/exit.

4 STABILIZED CONSTRUCTION ENTRANCE
C2.2 NOT TO SCALE



5 TRIANGULAR SEDIMENT FILTER DIKE
C2.2 NOT TO SCALE



- INSTALLATION DETAIL**
- OPTIONS:**
- 1) TOE-IN 6" MIN.
 - 2) WEIGHED WITH 3"-5" OPEN GRADED ROCK
 - 3) TRENCHED IN 4"

- GENERAL NOTES**
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
 2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
 3. THE SKIRT SHALL BE WEIGHED WITH A CONTINUOUS LAYER OF 3"-5" OPEN GRADED ROCK, OF TOE-IN 6" WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED IN 4 INCHES.
 4. THE DIKE STRUCTURE SHALL BE 6 GAUGE 6"x6" WIRE MESH, 18 ON A SIDE. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT.
 5. AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
 6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF SIX INCHES, AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
 7. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN 8. ABOVE.

1. THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF THE PROJECT AND GRASS RESTORATION.
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3. ALL PLANTING SHALL BE DONE BETWEEN MAY 1 AND SEPTEMBER 15 EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE OUTSIDE THE DATES SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER FESCUE (KENTUCKY 31) AT A RATE OF 100 LBS/ACRE. GRASS SHALL BE COMMON BERMUUDA GRASS, HULLED, MINIMUM 82% PURE LIVE SEED. ALL GRASS SEED SHALL BE FREE FROM NOXIOUS WEED. GRADE "A" RECENT CROP, CLEANED AND TREATED WITH APPROPRIATE FUNGICIDE AT TIME OF MIXING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH DEALER'S GUARANTEED ANALYSIS.
4. ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
5. THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR (4) INCHES. THE IRRIGATION TO OCCUR AT 10-15 DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE GERMINATION AND ESTABLISHMENT OF THE GRASS. RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER TO POSTPONE THE WATERING SCHEDULE 1 WEEK.
6. RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.
7. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
8. THE CONTRACTOR TO HYDRO MULCH OR SOD (AS SHOWN ON PLANS) ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
9. EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIP LINE.
10. TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIP LINE AREAS.
11. WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED ON PLANKING TO A HEIGHT OF EIGHT (8) FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE FENCING.
12. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
13. ANY ROOT EXPOSED BY THE CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATTER IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
14. CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE "NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES").
15. THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING 1/2 INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SPOIL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION /SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
16. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR (2' - 4') BEHIND THE AREA IN QUESTION.
17. NO ABOVE AND/OR BELOW GROUND TEMPORARY FUEL STORAGE FACILITIES TO BE STORED ON THE PROJECT SITE.
18. IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO PREEXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNER'S EXPENSE.
19. INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.

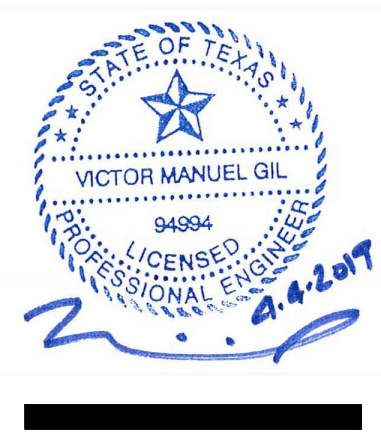
Brady Independent School District
Bond 2018
Brady, Texas

Revision:

Project Number
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Date:
4/4/2019

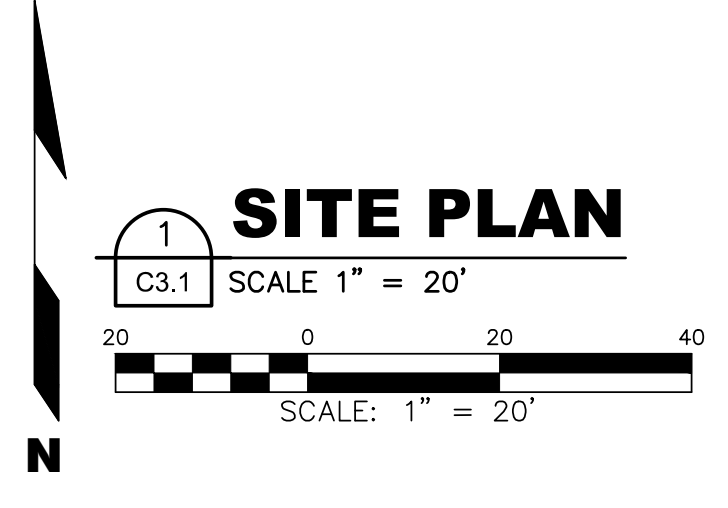
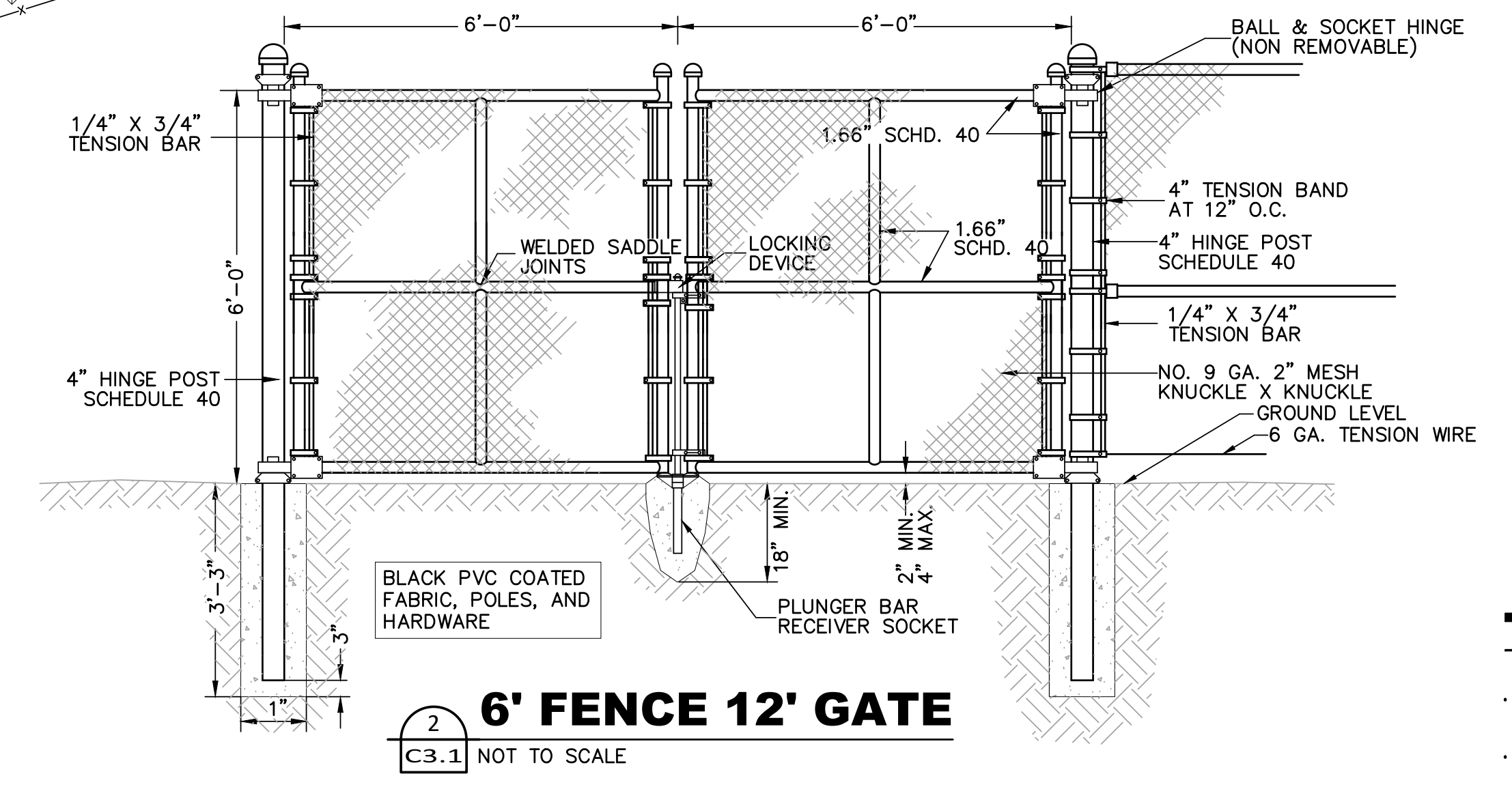
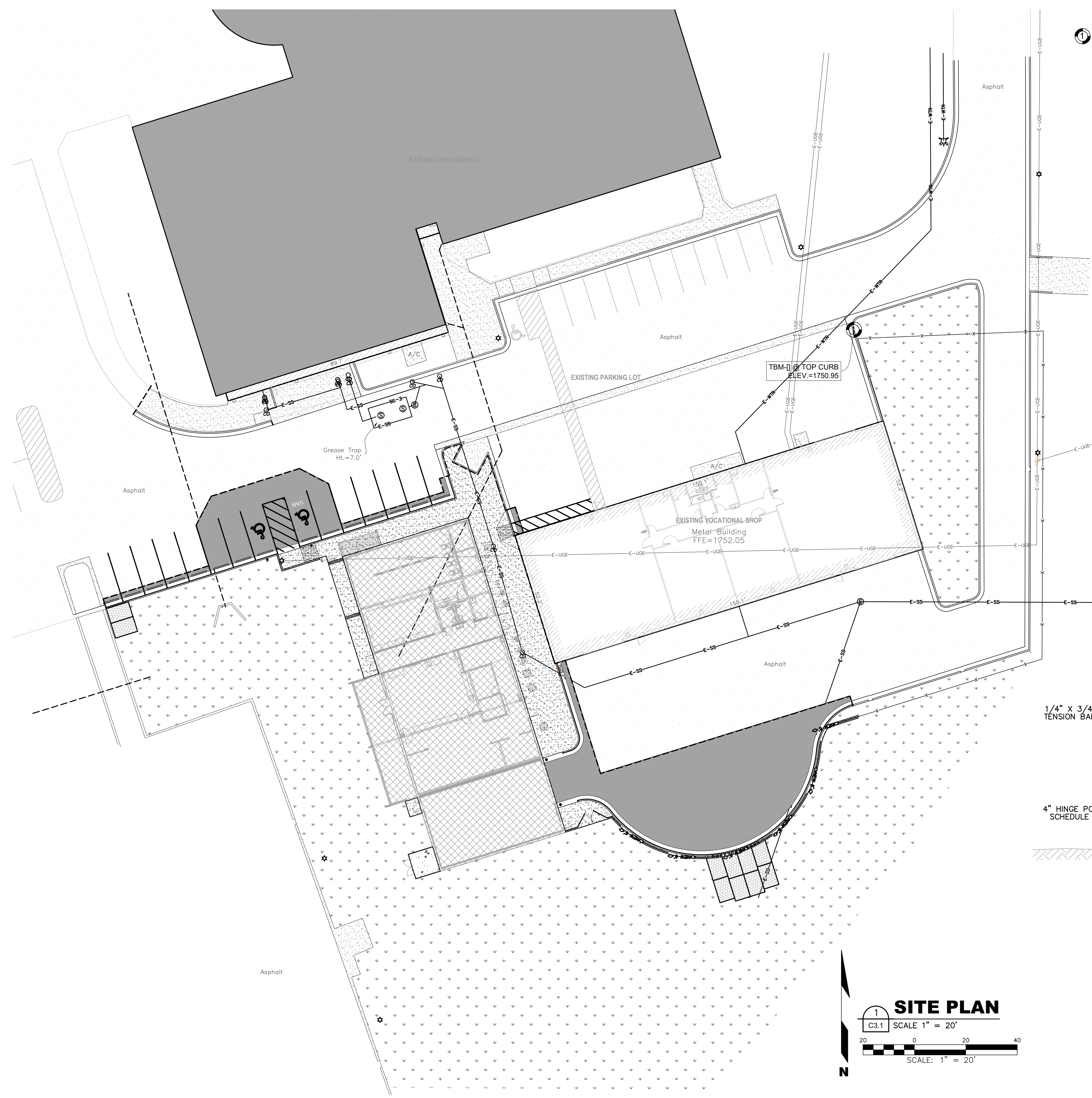
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Elevation	Northing	Eastng	Description
1750.75	10367495.54	2608091.03	SET BM SQUARE TOP CURB

LEGEND

- 4" TOPSOIL AND BERMUADA GRASS HYDROMULCH PROVIDED IN HATCHED AREAS TEMPORARILY IRRIGATED UNTIL ESTABLISHED OR ALTERNATELY SPECIFIED ON LANDSCAPING SHEETS
- ASPHALT PAVING
- CONCRETE SIDEWALK
- NEW BUILDING
- SEAL COAT EXISTING ASPHALT



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C3.1

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ACCESSIBILITY GRADING NOTES

GRADING HAS BEEN DESIGNED TO HANDICAPPED ACCESSIBILITY STANDARD AS REQUIRED BY TEXAS DEPARTMENT OF LICENSING AND REGULATION, ARCHITECTURAL BARRIERS PROGRAM. CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE MOST CURRENT TEXAS ACCESSIBILITY STANDARDS AND ADMINISTRATIVE RULES AS PROVIDED IN INTERNET SITE WWW.LICENSE.STATE.TX.US.

CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING HANDICAPPED ACCESSIBLE PATHS FROM HANDICAPPED PARKING SPACES TO ENTRANCES BY CHECKING THAT CROSS SLOPES THAT ARE NOT GREATER THAN 1.75% AND THAT ACCESS AISLE WITH 4.75% MAXIMUM (UP OR DOWN) SLOPE HAVE BEEN PROVIDED.

CONTRACTOR SHALL ISSUE REQUEST FOR INSTRUCTIONS, PRIOR TO CONSTRUCTION, FOR ANY CONDITION WHICH DOES NOT APPEAR TO MEET THE TEXAS DEPARTMENT OF LICENSING AND REGULATION, ARCHITECTURAL BARRIERS PROGRAM REQUIREMENTS.

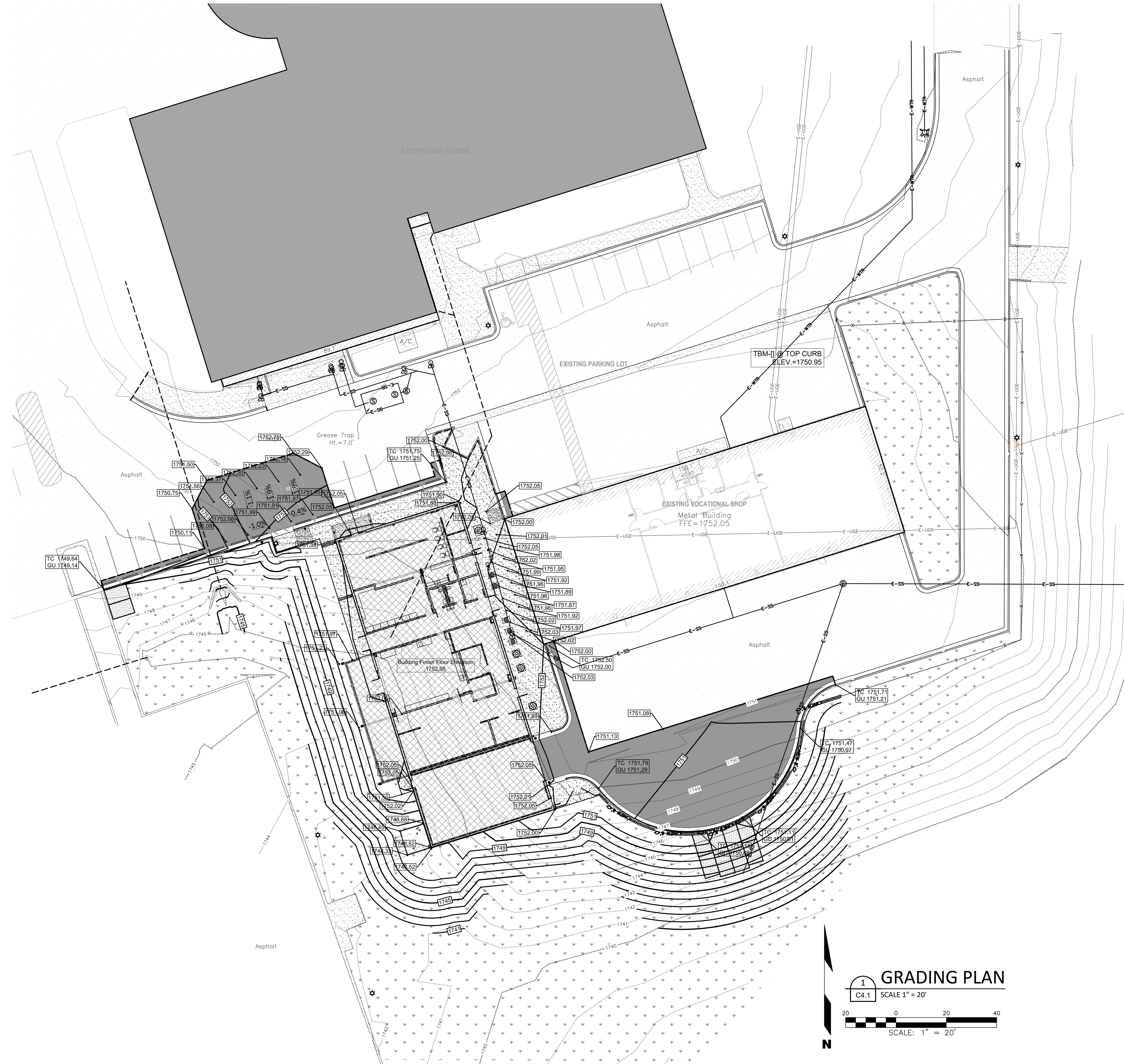
CONCRETE FLATWORK PLACED AGAINST THE BUILDING SHALL BE A MINIMUM OF 1/2" BELOW THE BRICK WEEP HOLES. HOWEVER, AT ENTRANCES AND DOORWAYS, THE CONCRETE FLATWORK SHALL BE FLUSH WITH THE BUILDING'S CONCRETE FINISH SURFACE. THE CONCRETE FLATWORK SHALL BE SLOPED AT 1:20 MAXIMUM FROM THE BUILDING'S CONCRETE FINISH SURFACE TO ACHIEVE THE REQUIRED "CLEARANCE" BELOW THE BRICK WEEP HOLES.

CONCRETE FLATWORK AT ENTRANCES AND DOORWAYS SHALL BE ANCHORED WITH 20" LONG #4 SMOOTH DOWELS AT 12" O.C. AND DRILLED A MINIMUM OF 8" INTO BUILDING'S CONCRETE FOUNDATION.

IT IS THE INTENT OF THE GRADING SHOWN TO SLOPE THE GROUND THAT IS IMMEDIATELY ADJACENT TO THE BUILDING'S FOUNDATION BE SLOPED AWAY FROM THE BUILDING AT A SLOPE NOT LESS THAN 5% (1 UNIT VERTICAL TO 20 UNITS HORIZONTAL) FOR A MINIMUM DISTANCE OF 10 FEET (MEASURED PERPENDICULAR TO THE BUILDING AT ALL POINTS). ALL SIDEWALKS AND OTHER IMPERVIOUS COVERED AREAS, WHERE SPOT ELEVATIONS ARE NOT GIVEN, SHALL BE SLOPED A MINIMUM OF 2% (1 UNIT VERTICAL TO 50 HORIZONTAL) FOR THE SAME 10 FEET.

GRADING NOTES

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATION'S OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
- SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
- ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
- ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
- THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL CLEAN STRIPPING AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
- THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HERE ON WITHIN +/- ONE-TENTH (0.10) FOOT. CONCRETE OR PAVED AREAS SHALL BE WITHIN +/- FIVE HUNDRETHS (0.05) FOOT.
- IN PROPOSED PAVING AREAS, IT IS INTENDED THAT THE MINIMUM GRADE IS 1%. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
- UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
- POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.



GRADING PLAN
SCALE 1" = 20'

LEGEND

TC	TOP OF CURB ELEVATION
GU	GUTTER ELEVATION
**	CONTRACTOR TO MATCH EXISTING ELEVATION
HP	HIGH POINT
LP	LOW POINT
100	PROPOSED CONTOUR
100	UNDERSLAB CONTOUR
100	EXISTING CONTOUR

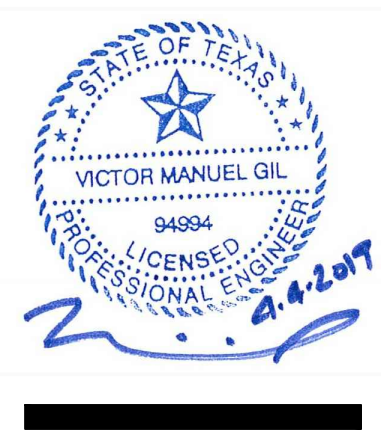


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STORM DRAINAGE NOTES

1. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION WHEN WORK NEAR EXISTING UTILITIES AND SHOULD THEY BE DAMAGED DURING CONSTRUCTION OPERATIONS THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE THE DAMAGED FACILITIES AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION.
3. ALL LENGTHS OF PIPE ARE TO INSIDE FACE OF STRUCTURES. LENGTHS ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND USEABLE SYSTEM.
4. CONTRACTOR SHALL ENSURE PROPER SIZE OF JUNCTION BOXES NEEDED WHERE INDICATED ON PLAN. CONTRACTOR SHALL CONNECT STORM DRAIN PIPE TO JUNCTION BOXES PER MANUFACTURER'S SPECIFICATIONS.
5. ALL STORM DRAIN TO JUNCTION BOX AND INLET CONNECTION SHALL HAVE CONCRETE COLLARS OF A SUFFICIENT WIDTH AND DEPTH TO MAKE THE CONNECTION.
6. ALL GRATES SHALL BE H20 LOADING RATED GRATES.
7. TOPS OF MANHOLES, JUNCTION BOXES AND GRATES SHALL BE SET FLUSH TO THE FINISHED SURFACE BASED UPON GRADING PLAN.
8. ONSITE STORM DRAINS SHALL COMPLY WITH THE CURRENT APPLICABLE CITY, COUNTY AND OR TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND MEET THE FOLLOWING REQUIREMENTS.
9. CONTRACTOR TO VERIFY BUILDING STUB OUT LOCATION AND INVERT ELEVATIONS PRIOR TO ANY NEW STORM DRAIN PIPE WORK.

REINFORCED CONCRETE PIPE (RCP) PER ASTM C76/76M SHALL BE CLASS III WALL TYPE A, MESH REINFORCEMENT, AND BELL AND SPIGOT END JOINTS WITH GASKET, AND WATERTIGHT JOINTS PER ASTM C443/443M\

10. CONTRACTOR SHALL PROVIDE ALL FITTINGS AS REQUIRED TO INSTALL PIPE, AREA DRAINS, AND ROOF DRAIN CONNECTIONS AS SHOWN ON THE PLANS.

TEXAS 811 DAMAGE PREVENTION NOTE

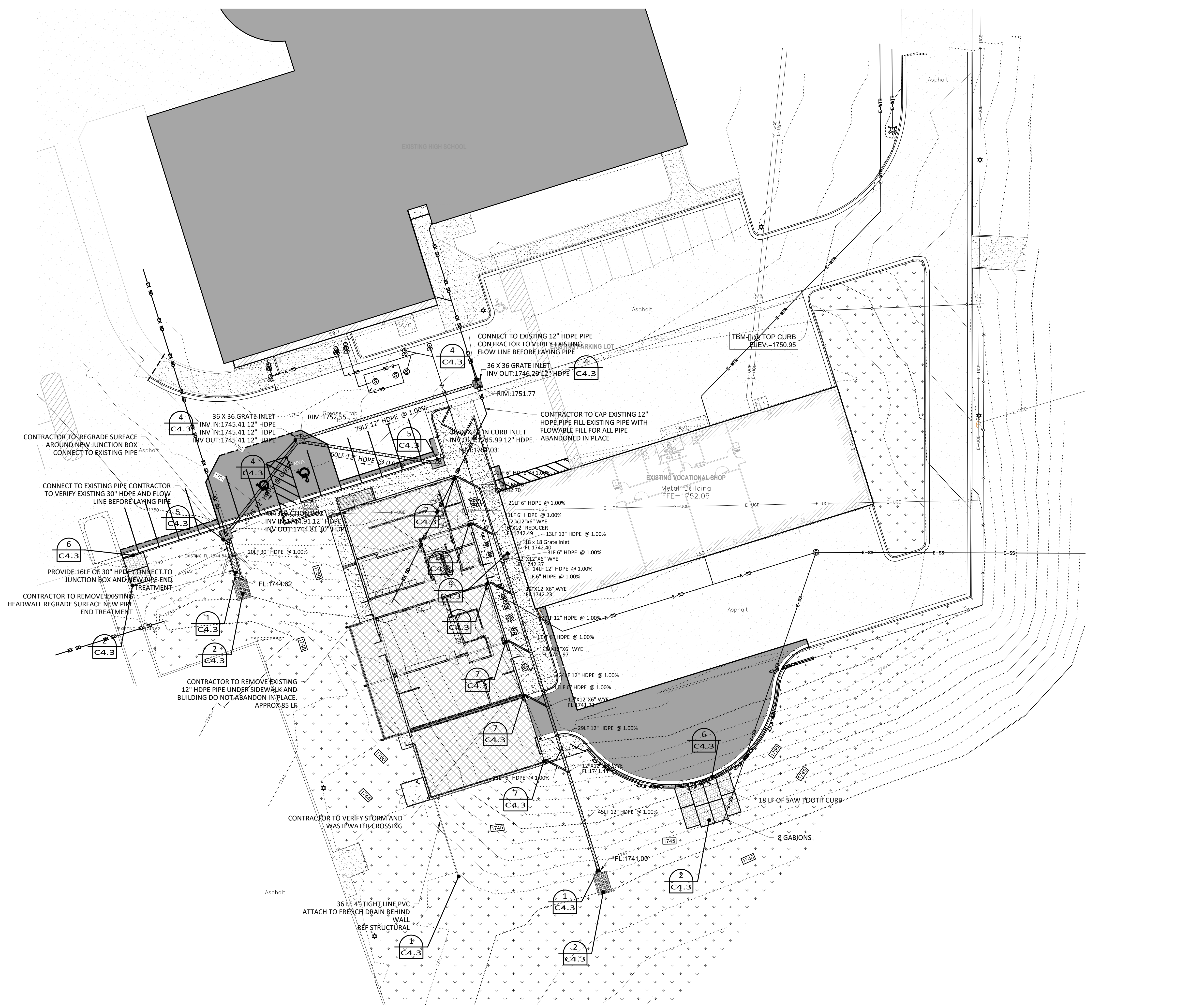
NOTE: EXISTING GAS LINES ARE LOCATED IN THIS AREA. CONTRACTOR SHALL BE RESPONSIBLE TO CALL TEXAS 811 FOR UTILITY LOCATOR SERVICES TO LOCATE GAS LINE. CONSTRUCTION IN THIS AREA IS SUBJECT TO CHAPTER 18 UNDERGROUND PIPELINE DAMAGE PREVENTION RULES, PROMULGATED BY THE RAILROAD COMMISSION OF TEXAS. ANY DAMAGE TO THE GAS LINES MUST BE IMMEDIATELY REPORTED TO 811 AND GAS COMPANY AND A TEXAS DAMAGE REPORTING FORM SUBMITTED BY THE CONTRACTOR TO THE RRC (GAS COMPANY DOING REPAIRS IS NOT SUFFICIENT) WITHIN 10 DAYS OF INCIDENT.

DRAINAGE CONNECTION NOTES

STORM WATER CONTRACTOR IS REQUIRED TO PLACE STORM WATER PIPING TO THE BUILDING AND MAKE CONNECTION AT THE GRADE BEAM AT THE ELEVATIONS AS INDICATED ON THE DRAWING. VERIFY BUILDING STORM OUTLET ELEVATIONS BEFORE LAYING ANY PIPE. CONTRACTOR TO CONTACT ENGINEER IF ONSITE BUILDING STORM IS DIFFERENT THAN SHOWN ON THE PLANS

STORM WATER CONTRACTOR IS REQUIRED TO PLACE STORM WATER PIPING TO THE BUILDING AND TURN UP AT THE GRADE BEAM AND PLACE A BOOT OR CONNECTION DEVICE TO CONNECT RECTANGULAR DOWNSPOUTS TO ROUND PIPING.

STORM WATER CONTRACTOR AND GENERAL CONTRACTOR ARE REQUIRED TO COORDINATE BETWEEN THE PRE-MANUFACTURED CANOPY SHOP DRAWING AND THE LOCATIONS OF THE UNDERGROUND STORM DRAIN LEADERS. DO NOT PLACE ANY STORM DRAIN LEADERS UNDERGROUND UNTIL THE CANOPY SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED. THE LOCATIONS SHOWN HEREON ARE AN ESTIMATE OF THEIR APPROXIMATE LOCATION.

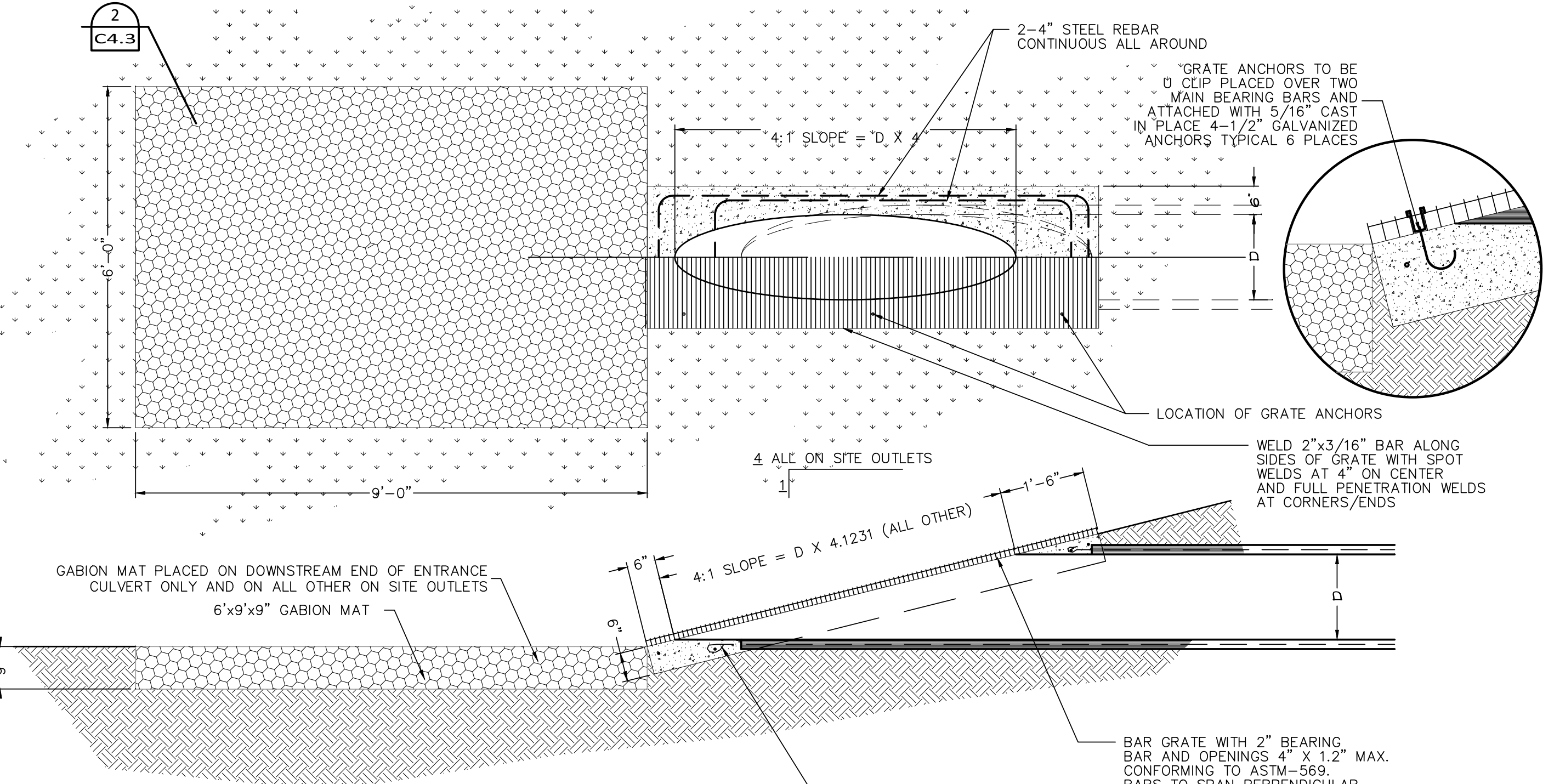
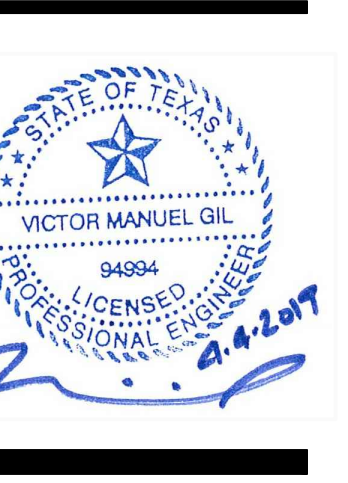


1 **STORM DRAINAGE PLAN**
 SCALE 1" = 20'
 20 0 20 40
 SCALE: 1" = 20'

Brady Independent School District
Bond 2018
 Brady, Texas

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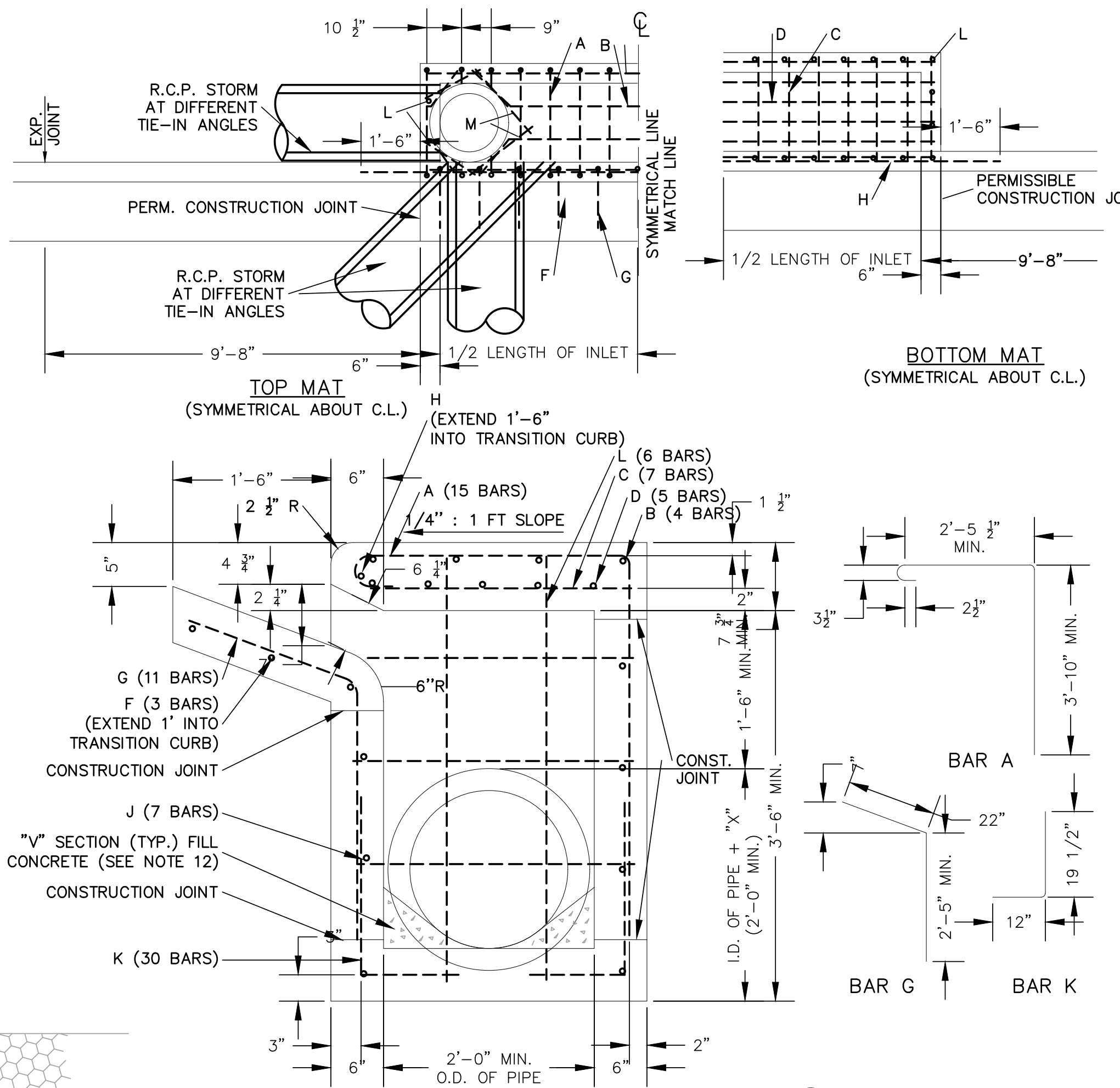
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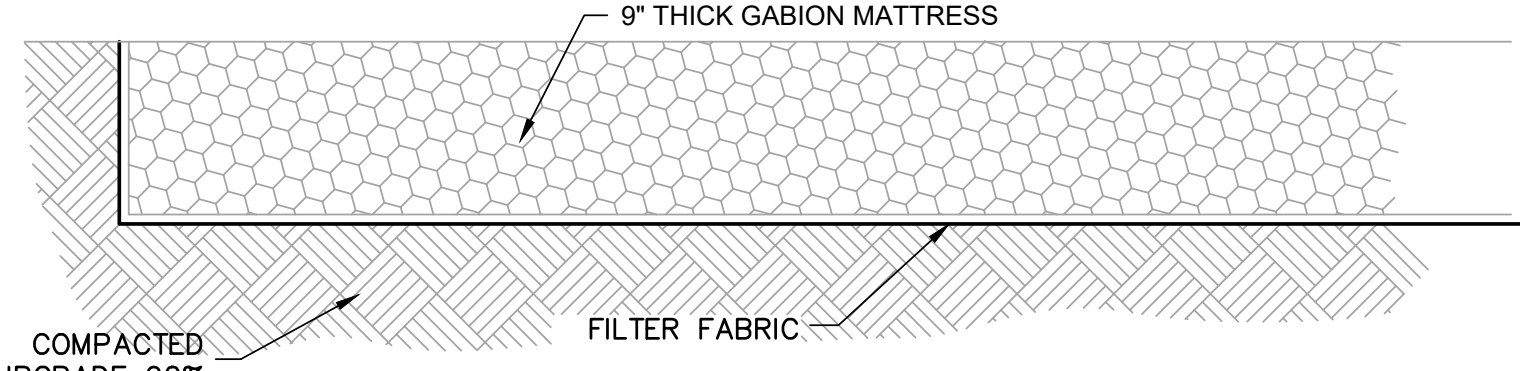
- CONTRACTOR WILL CONSTRUCT OUTLET TO A NEAT AND FINISH APPEARANCE.
- CONTRACTOR TO PAINT BAR GRATE AND FACE OF CONCRETE WITH SEMI-GLOSS BLACK POLYURETHANE PAINT TO CREATE

1
C4.3 NOT TO SCALE

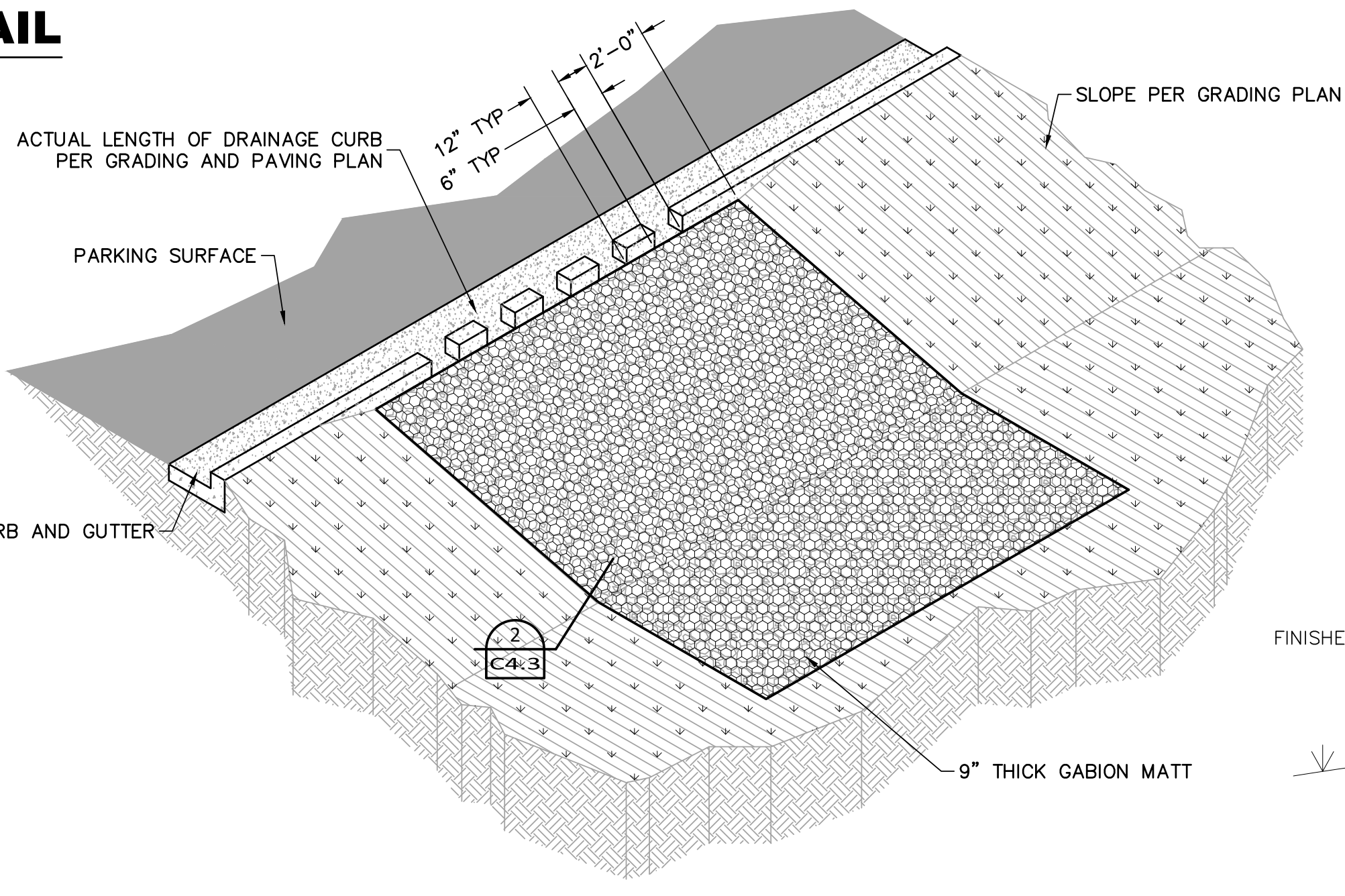


3
C4.3 NOT TO SCALE

LENGTH OF INLET 5'-0" STANDARD; PRE-CAST INLET IS ACCEPTABLE



2
C4.3 NOT TO SCALE



6
C4.3 NOT TO SCALE

NOTE:
INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.
USE PVC WHERE SHOWN ON THE DRAWINGS

WATERTIGHT (WT) JOINTS REQUIRED.

DOWNSPOUT REF ARCH

UTILITY CONTRACTOR IS RESPONSIBLE TO THIS POINT

DOWNSPOUT ADAPTER INSERTED IN RISER PIPE OR USE RECTANGLE TO ROUND METAL GUTTER MATERIAL SAME GAUGE AS THE DOWNSPOUT FORMED WITH A PIPE LOCK SEAM

FINISHED GRADE

BUILDING FACE

INSERT INJECTION MOLDED, GASKETED SPIGOT BY BELL REDUCER OR PVC ECCENTRIC REDUCER

INJECTION MOLDED WT TEE OR WYE USE PVC FITTINGS WHEN HDPE IS NOT ACCEPTED

HDPE PIPE OR PVC

INJECTION MOLDED WT 90° BEND OR 90° PVC FITTING

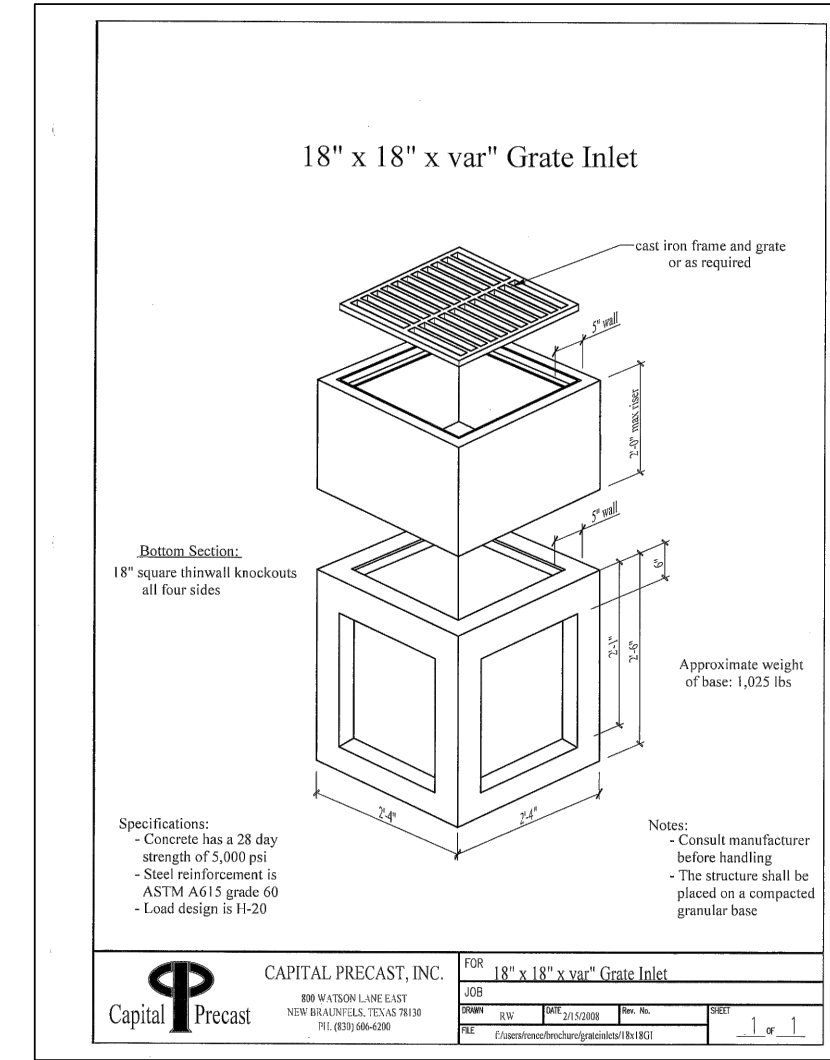
HDPE PIPE OR PVC

ALL JOINTS IN THIS DETAIL ARE TO BE WATERTIGHT (WT)

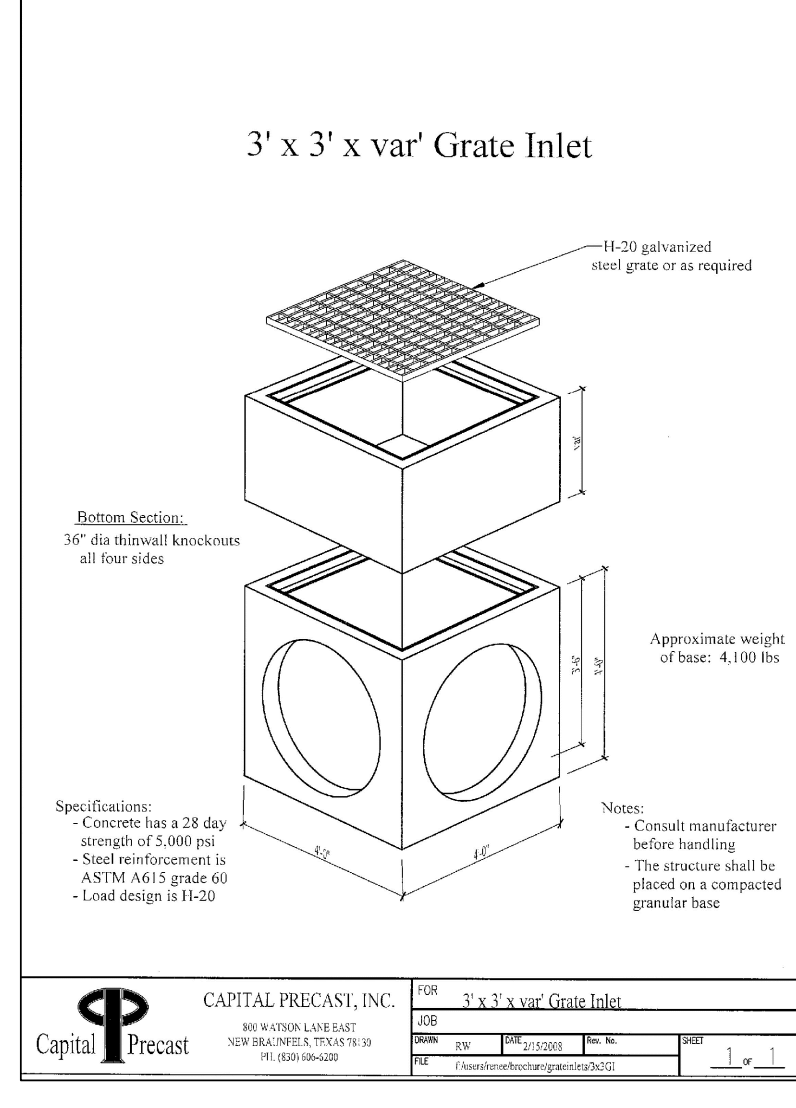
FOR CONNECTION INTO RCP OR LARGE DIA. HDPE CONTRACTOR IS TO USE INSERT-A-WYE PRODUCT OR APPROVED EQUAL

7
C4.3 NTS

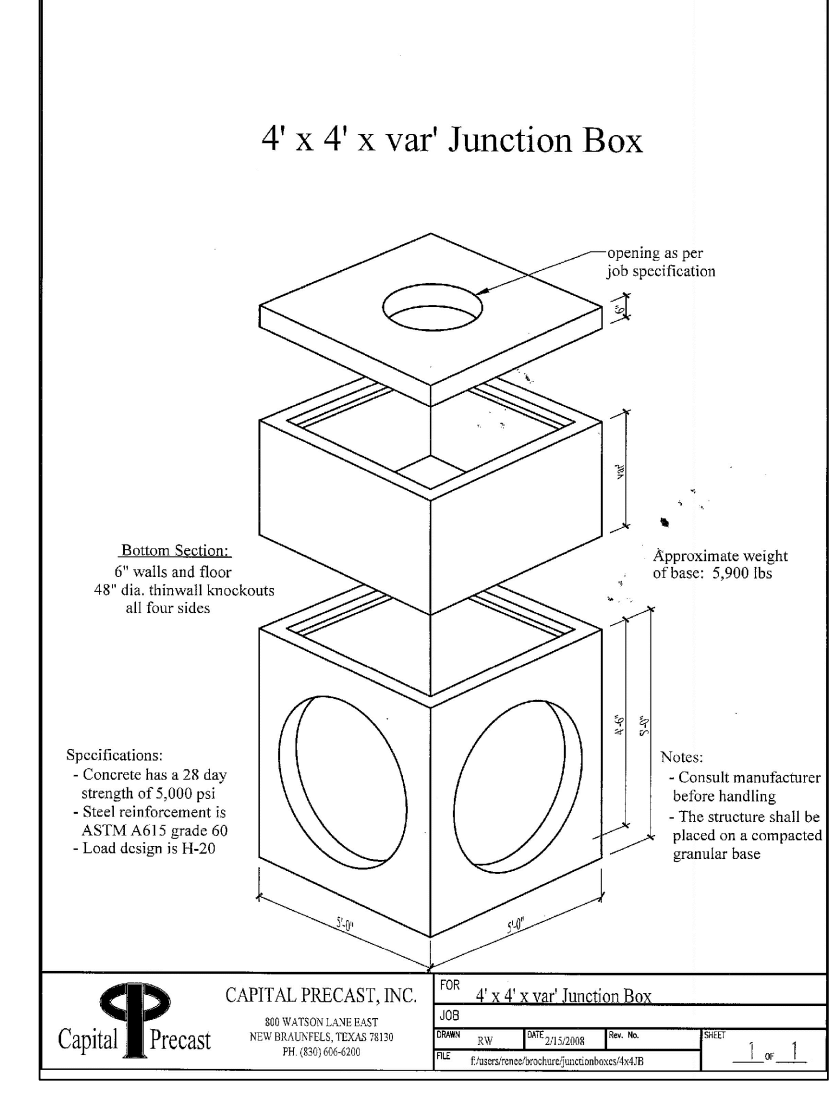
DOWNSPOUT CONNECTION



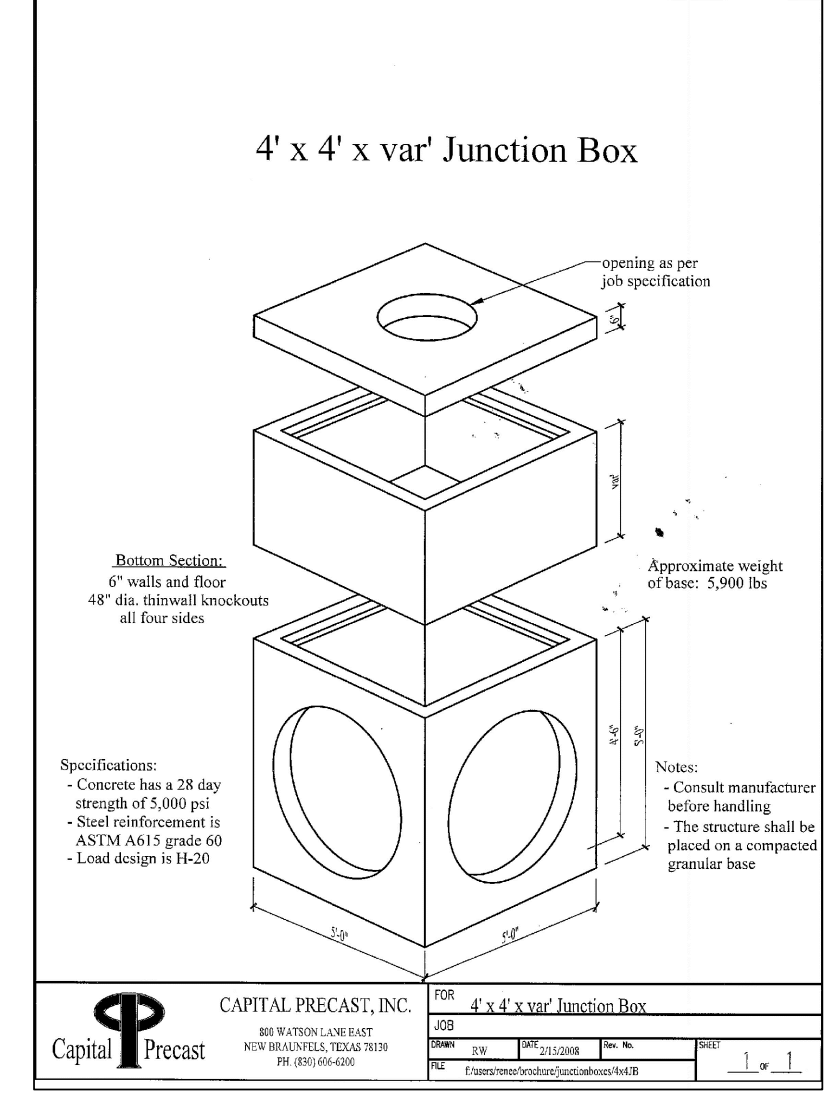
9
C4.3 NOT TO SCALE



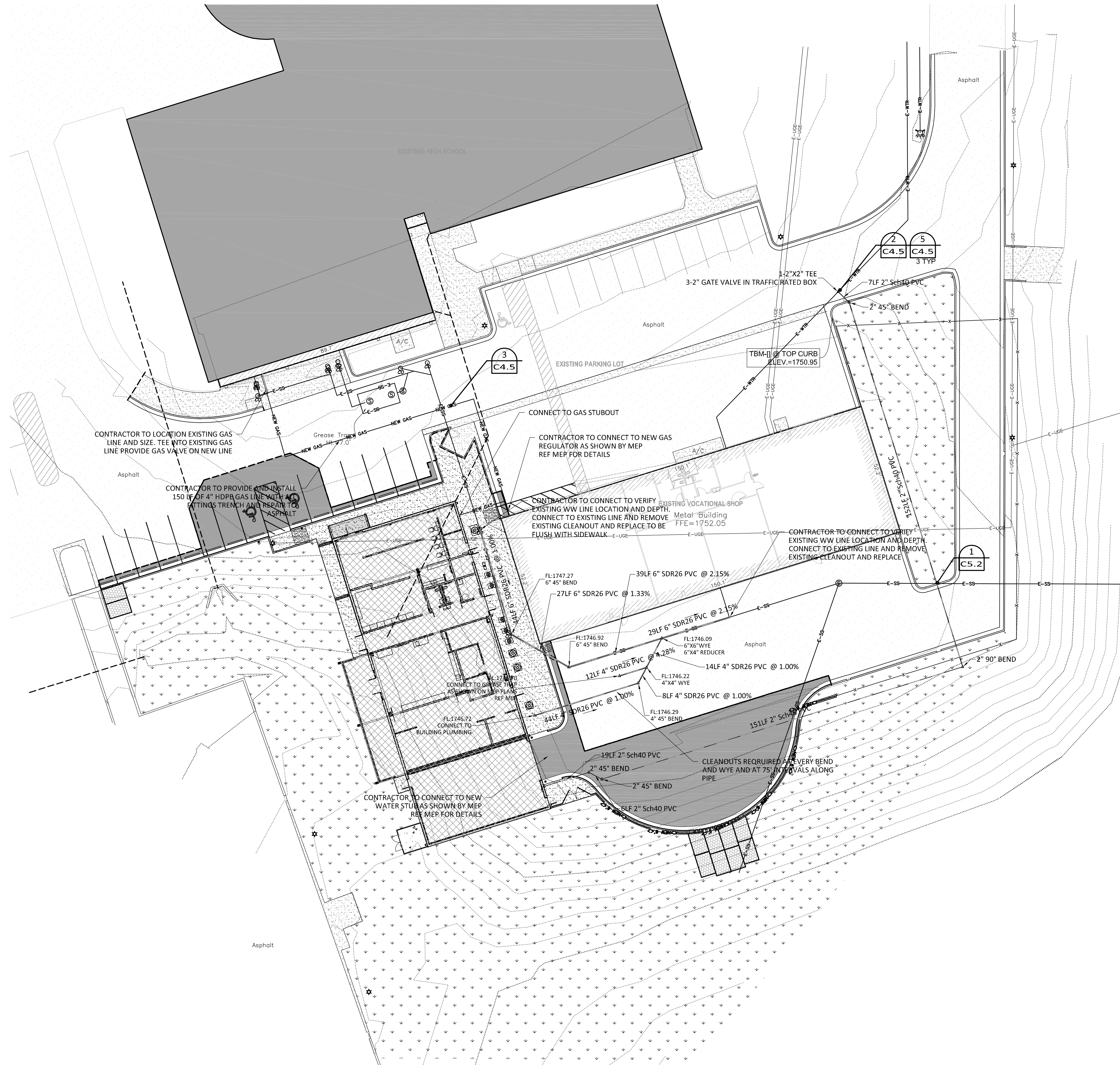
4
C4.3 NOT TO SCALE



5
C4.3 NOT TO SCALE



8
C4.3 NOT TO SCALE



EXISTING UTILITIES NOTE

EXISTING UTILITIES SHOWN HEREON REPRESENT A COMPILATION OF INFORMATION FROM EXISTING DRAWINGS, ON SITE SURVEYS, AND MEETINGS BETWEEN UTILITY PROVIDERS. CONTRACTOR SHOULD USE CAUTION WHENEVER WORKING BECAUSE EXISTING UTILITIES MAY NOT BE LOCATED EXACTLY AS SHOWN ON THIS UTILITY PLAN. THEREFORE, APPROPRIATE AND REASONABLE PRECAUTIONS MUST BE USED TO REDUCE THE CHANCE OF DAMAGING ANY EXISTING UTILITY THAT IS NOT PART OF THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITIES BOTH EXISTING AND PROPOSED WITH ALL DISCIPLINE'S REPRESENTED IN THESE PLANS AS A WHOLE. IF AND WHEN DISCREPANCIES OCCUR THE CONTRACTOR WILL REQUEST AN RFI FROM THE PROJECT MANAGER TO BE FORWARDED TO THE APPROPRIATE DISCIPLINES REPRESENTATIVE. IF THE DISCREPANCY CREATES THE NEED TO DEVIATE FROM THE DESIGN AS SHOWN ON THESE PLANS, THE CONTRACTOR SHOULD PROVIDE (ALONG WITH THE RFI) TWO ALTERNATIVE SOLUTIONS WITH ASSOCIATED COSTS AND/OR CREDITS TO THE PROJECT MANAGER TO BE FORWARDED TO THE APPROPRIATE DISCIPLINES REPRESENTATIVE.

UTILITIES NOTES

PRIOR TO STARTING ANY SITE SANITARY SEWER WORK, CONTRACTOR MUST VERIFY BUILDING SANITARY SEWER OUTLET AND COORDINATE WITH BUILDING PLUMBING CONTRACTOR TO ENSURE POSITIVE FLOW

ALL LENGTHS SHOWN ON PLAN ARE APPROXIMATE AND DO NOT LIMIT THE CONTRACTORS RESPONSIBILITY FOR COMPLETE AND USEABLE FACILITIES.

CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL EXISTING WATER LINES BEFORE PROCEEDING WITH WORK.

CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL WASTE WATER LINE BEFORE PROCEEDING WITH WORK.

CONTRACTOR TO ACQUIRE GPS COORDINATES ON ALL BENDS, TEES, AND OTHER APPURTENANCES BEFORE BACK FILL CAN OCCUR ON WATER AND WASTEWATER LINE.

CONTRACTOR SHALL ENSURE FINAL ELEVATION OF ALL VALVE COVERS IS AT FINISHED GRADE OF ASPHALT OR CONCRETE AREAS.

CONTRACTOR SHALL COMPLY WITH CITY OF BRADY INSPECTIONS, LINE LOADING, AND LINE TESTING SHALL ALL BE DONE IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS.

AN ACCURATE AS-BUILT DRAWING SHALL BE COMPLETED AND SUBMITTED TO THE ENGINEER IN BOTH PAPER AND PDF FORMAT

A VALVE SHALL BE INSTALLED BETWEEN THE MAIN WATER LINE AND ANY APPURTENANCES TO ENSURE THE ABILITY TO ISOLATE THESE ITEMS IF NECESSARY FOR MAINTENANCE AND/OR REPAIR.

ALL WATER LINES SHALL HAVE MARKER TAPE AND TRACE WIRE.

TRENCH EXCAVATION SAFETY NOTE

Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA Standards for trench excavations. Specifically, contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA Standards governing the presence and activities of individuals working in and around trench excavation.

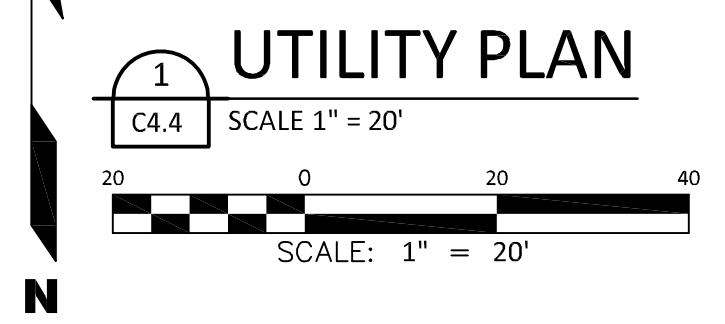
FIRE SPRINKLER SUPPLY LINE NOTE

UNDERGROUND MAINS SUPPLYING NFPA 13 AUTOMATIC FIRE SPRINKLER SYSTEMS MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 13, NFPA 24 AND THE FIRE CODE BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR WITH A CITY OF NEW BRAUNFELLES PLUMBING PERMIT FOR THE INSTALLATION. THE ENTIRE FIRE SERVICE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.

GPS NOTES

GPS POINTS FOR , WATER AND WASTEWATER ATTRIBUTES, SOME OF WHICH MUST BE TAKEN PRIOR TO BACKFILL DURING CONSTRUCTION: GPS POINTS SHALL BE REQUIRED FROM THE CONTRACTORS. A MINIMUM OF THREE COORDINATE POINTS FOR GEOREFERENCING SHALL BE REQUIRED. THE WATER AND WASTEWATER GPS POINTS SHALL BE TO SURVEY GRADE.

WATER:
 VERTICAL BENDS AND EDGE OF STEEL CASTING (IF APPLICABLE) PRIOR TO BACKFILL HORIZONTAL BENDS PRIOR TO BACKFILL
 FITTINGS (REDUCERS AND COUPLINGS) PRIOR TO BACKFILL
 FIRE HYDRANTS (TOP OF FLANGE)
 VALVES
 METERS (TOP OF CENTER OF BOX)
 BLOW OFF ASSEMBLY
 CORNER SLAB OF WATER TANK AND GATE VALVE ON WATER TANK



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Bond 2018
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Revision: _____

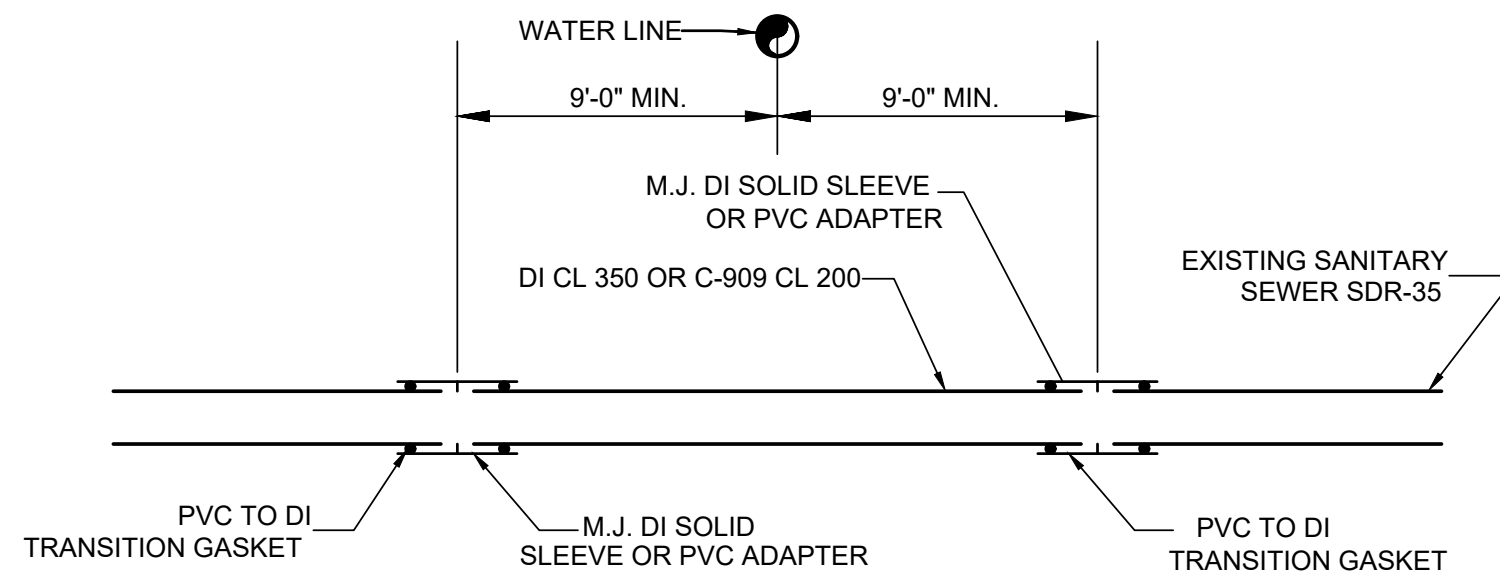
Project Number
1703

Date:
4/4/2019

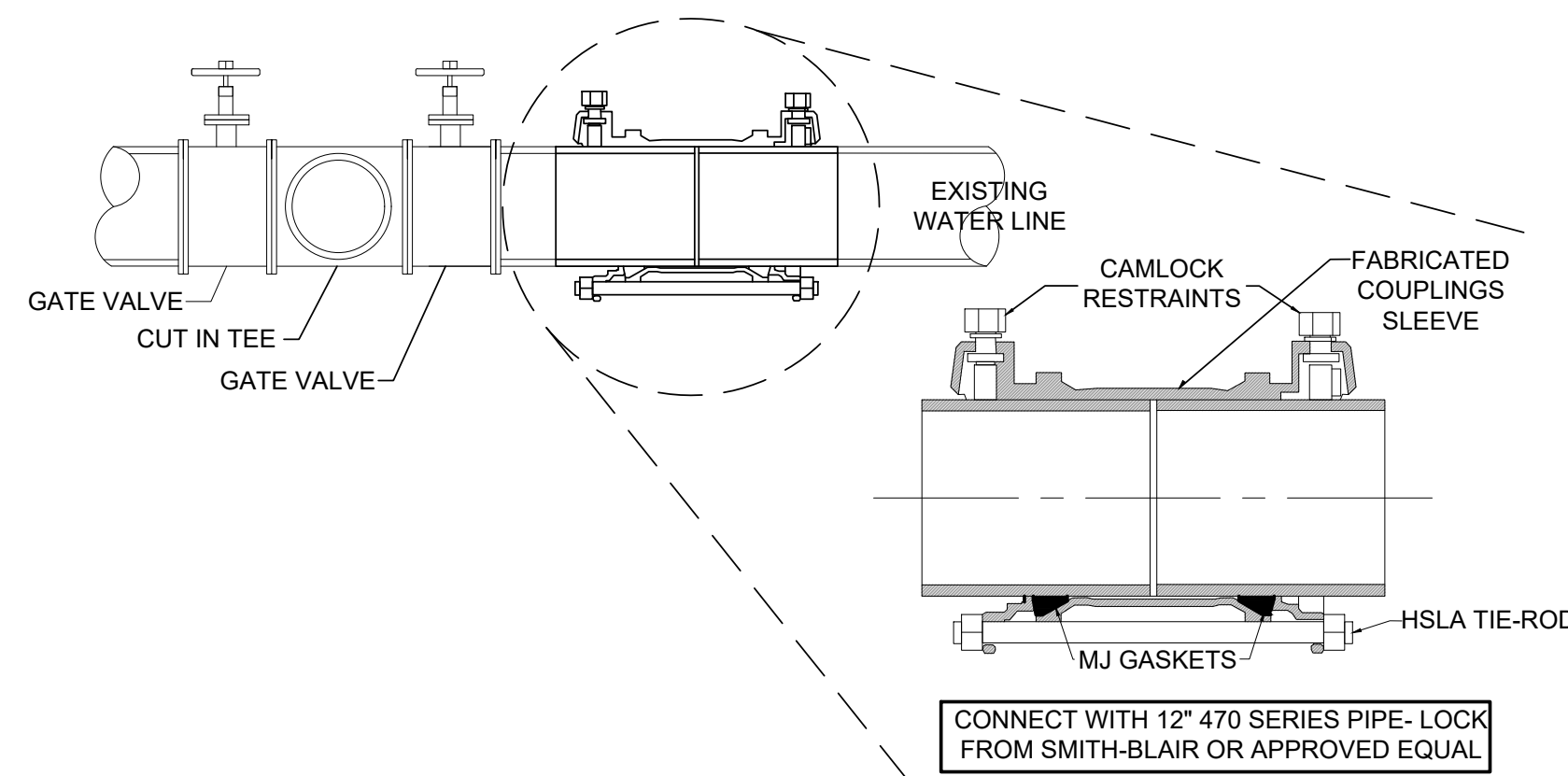
Sheet Number
C4.4

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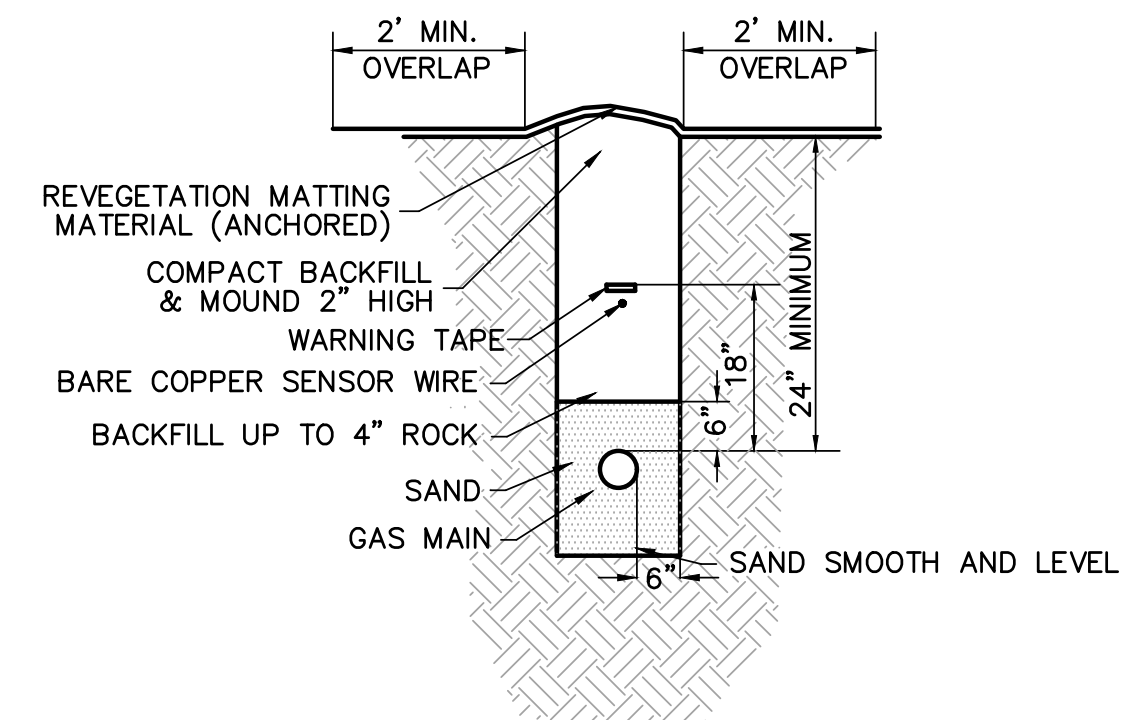
- NOTES:
1. COMPLY WITH TCEQ RULES AND REGULATIONS OF SEPARATION OF WATER MAINS AND SEWER MAIN LINES SHOWN BELOW
 2. PROVIDE AND CENTER ONE 20' JOINT OF THE SEWER PIPE ON WATERLINE USING DI OR PVC (150 PSI MIN.).



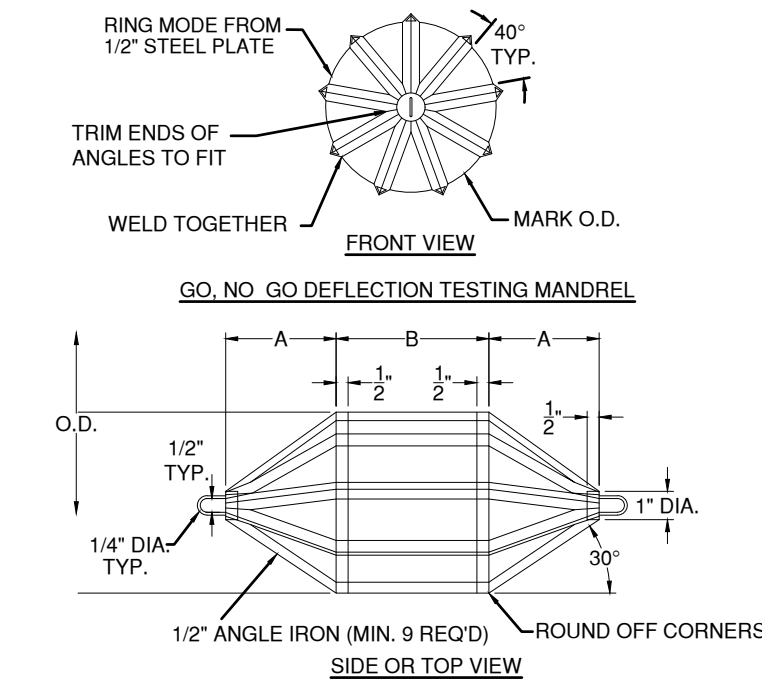
1 WATER/SEWER CROSSING DETAIL
C4.5 NOT TO SCALE



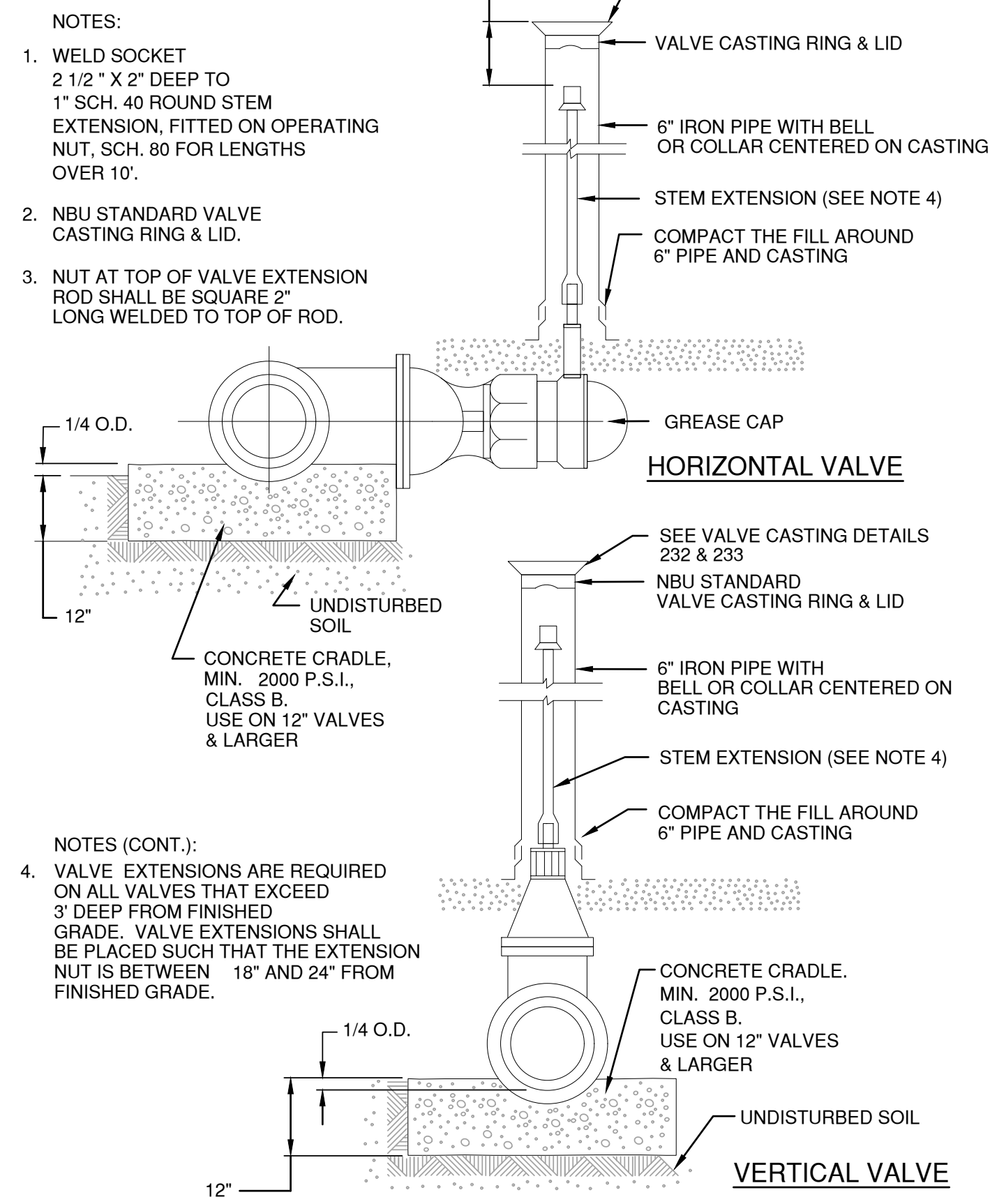
2 WATER CONNECTION DETAIL
C4.5 NOT TO SCALE



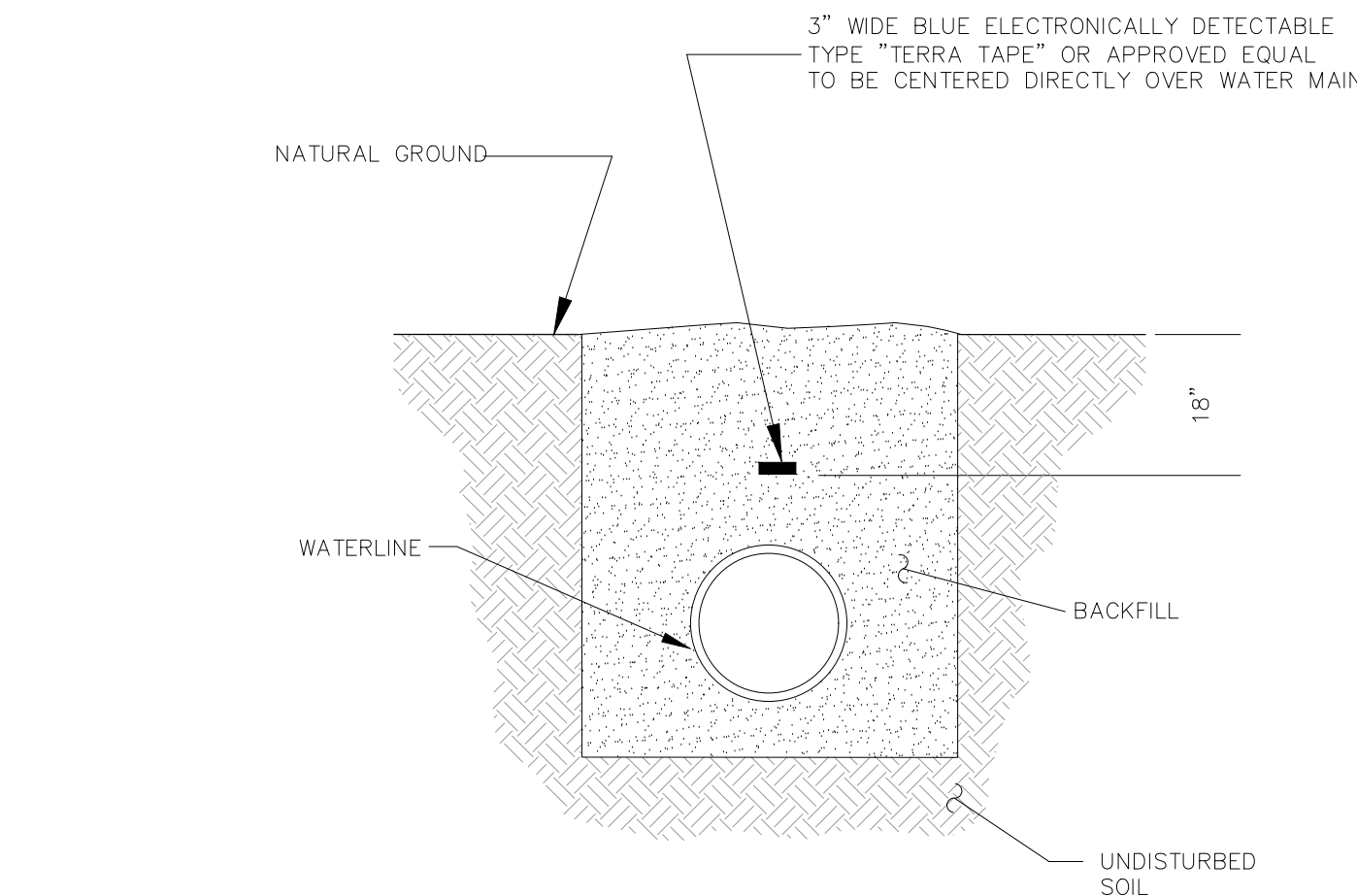
NOTE: 2" MOUND AND REVEGETATION MATTING NOT REQUIRED UNDER PAVEMENT OR FLATWORK.
3 UNDERGROUND GAS MAIN TRENCH
C4.5 NOT TO SCALE



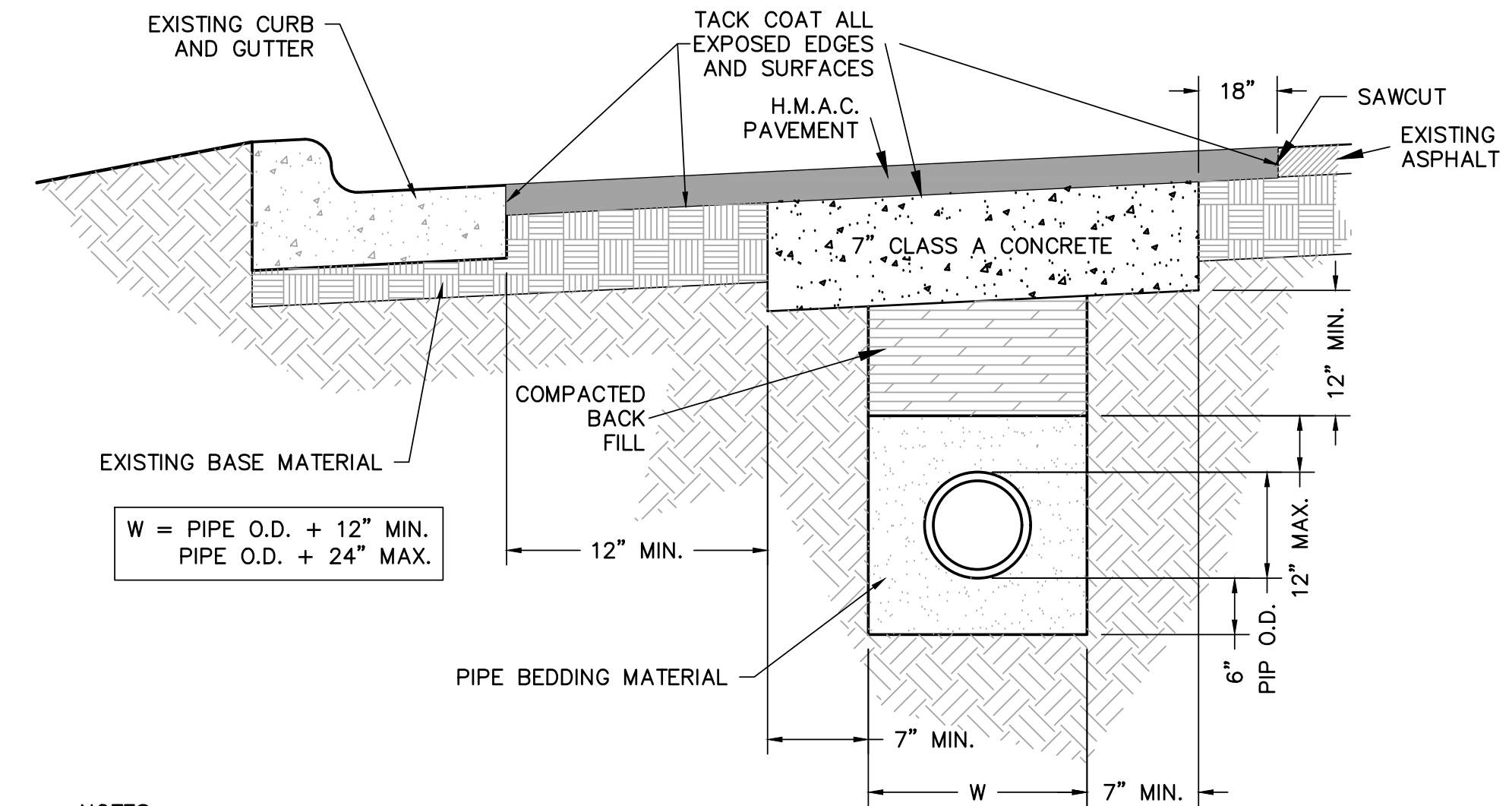
4 GO, NO GO TESTING MANDREL
C4.5 NOT TO SCALE



5 TYPICAL GATE VALVE
C4.5 NOT TO SCALE



6 WATERLINE SURFACE IDENTIFICATION
C4.5 NOT TO SCALE



NOTES:
 1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" WIDER THAN UNDISTURBED SIDES OF THE TRENCH AND SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
 2. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMA.
 3. ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3", BUT IN NO CASE LESS THAN 12".
 4. DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
 5. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 3" HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 6. CLASS "J" PC CONCRETE TXDOT ITEM 403 OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.

7 H.M.A.C. STREET REPAIR
C4.5 NOT TO SCALE



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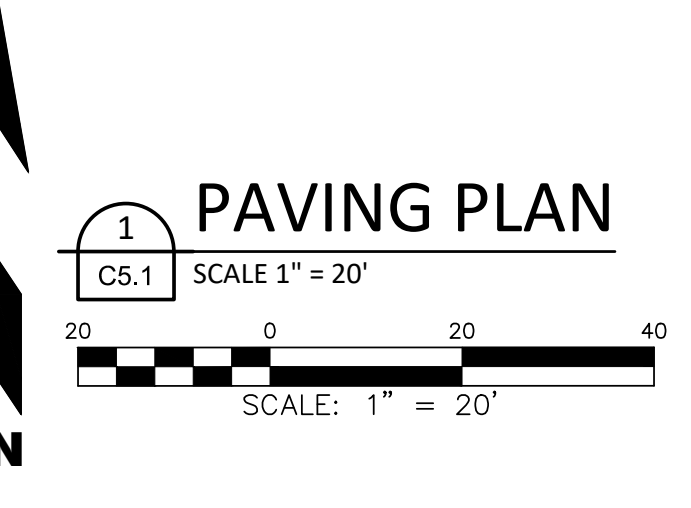
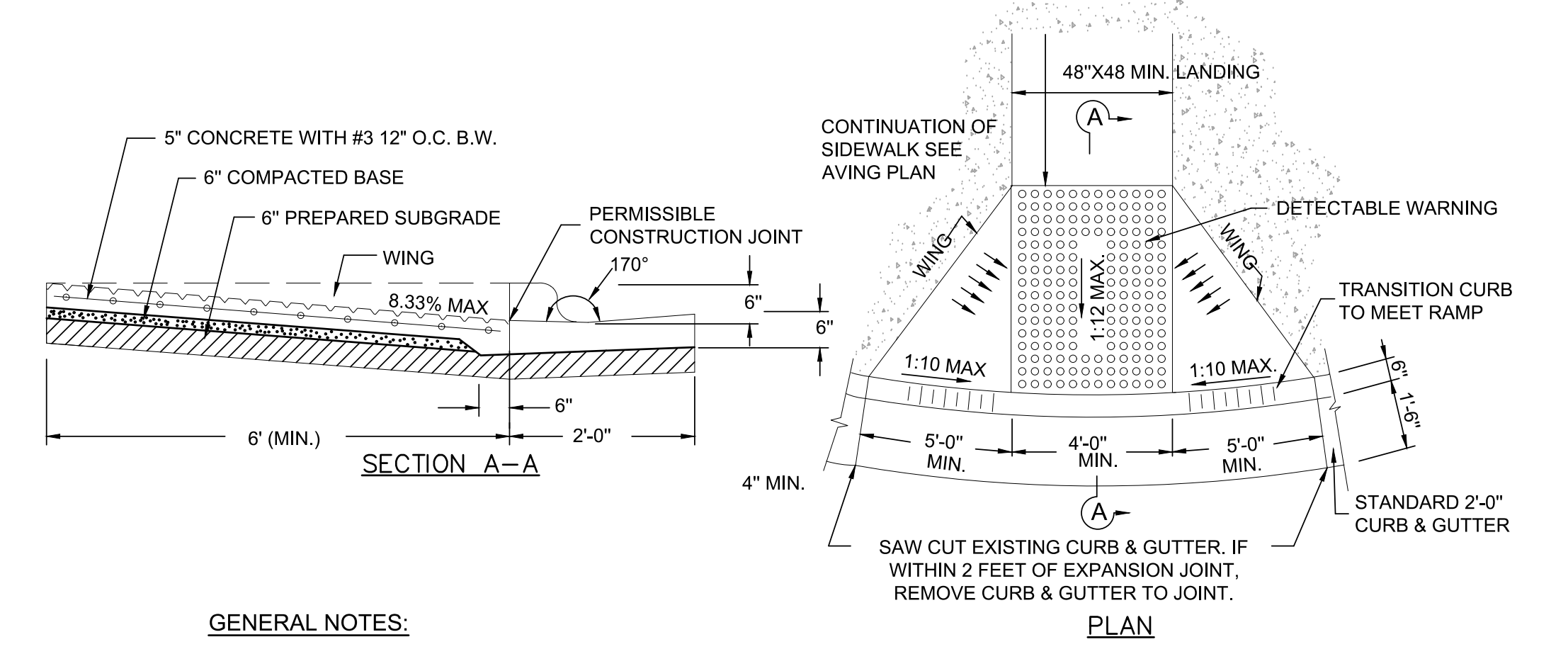
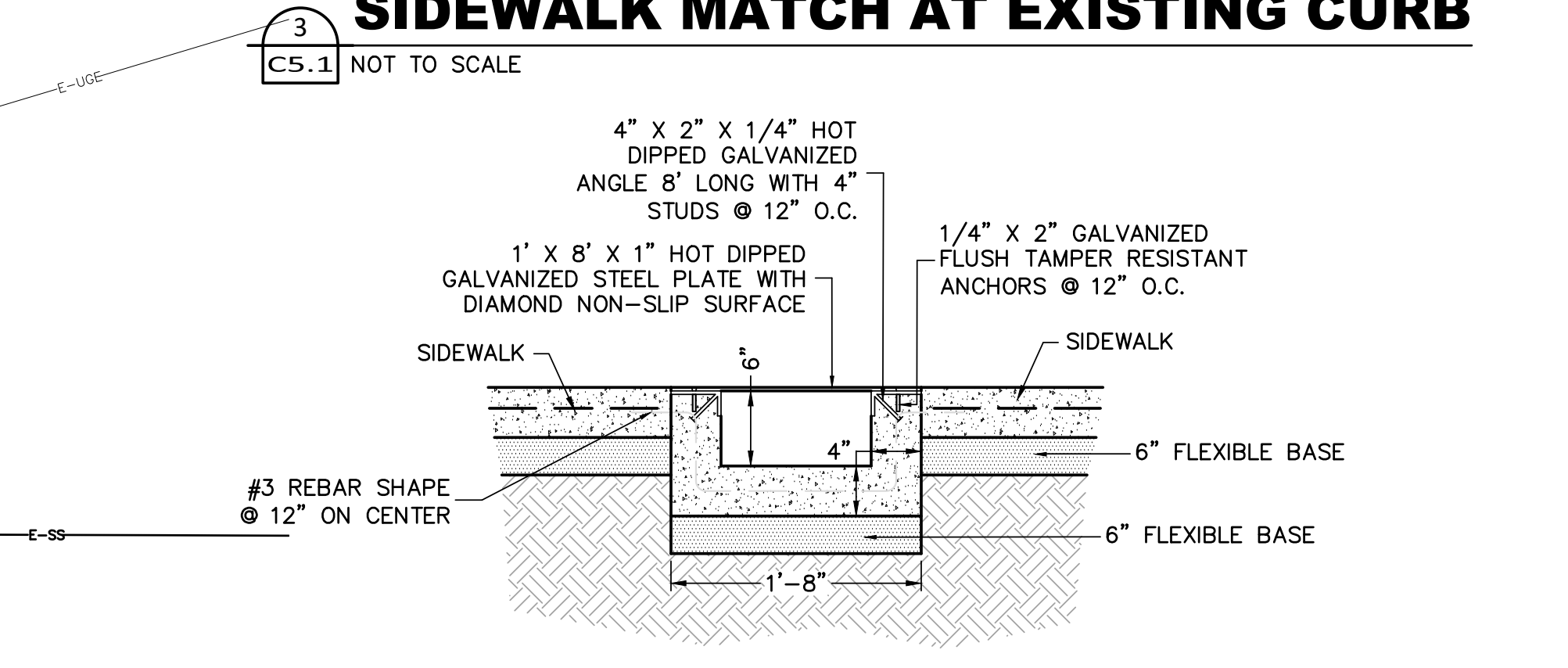
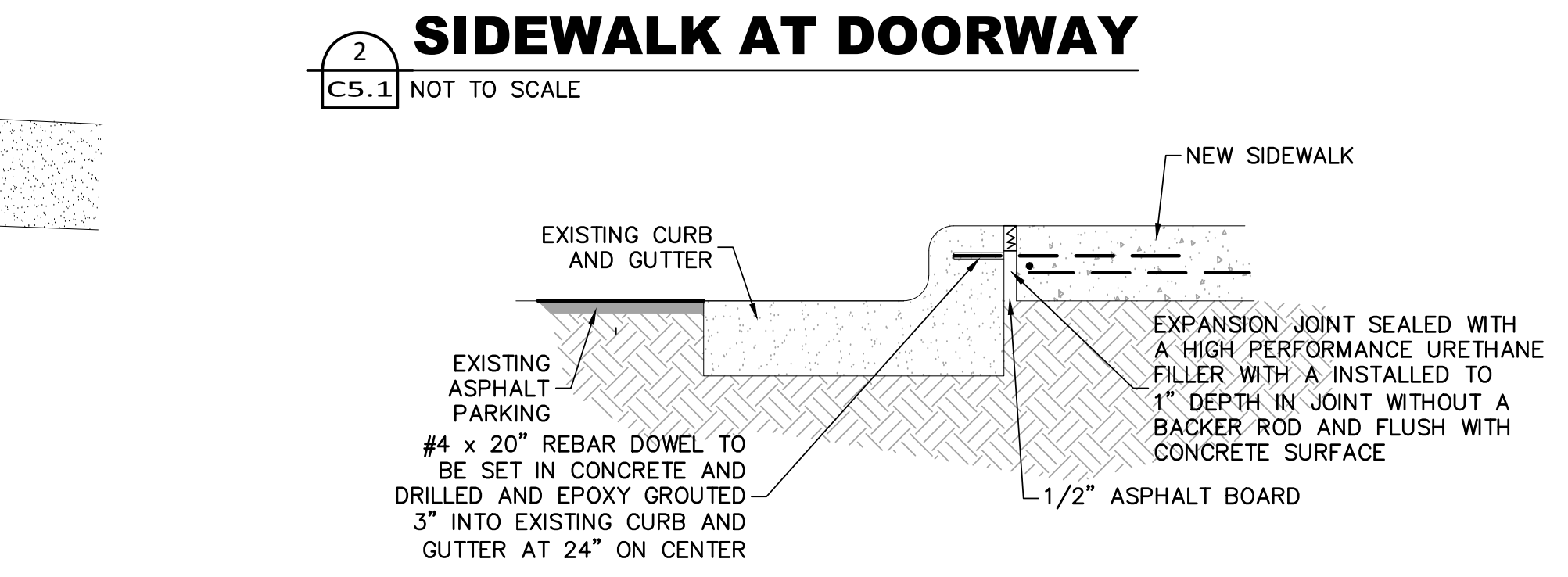
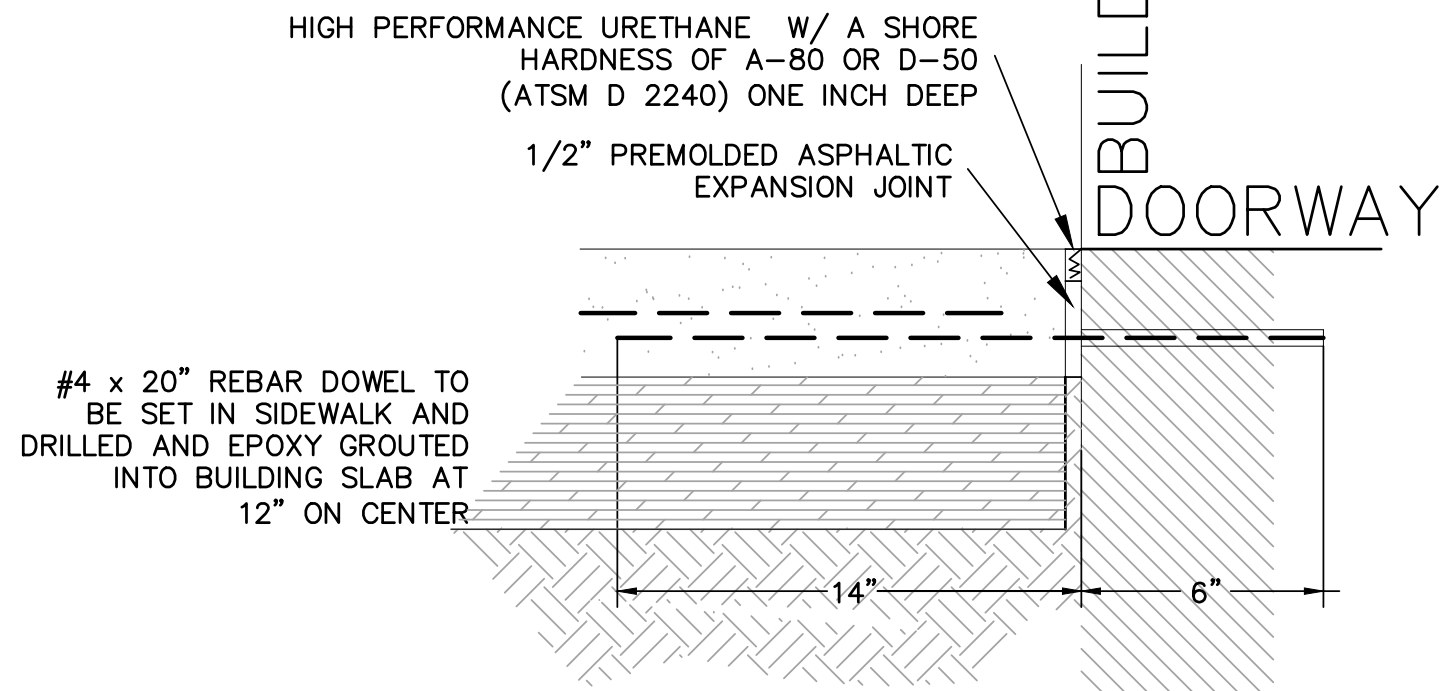
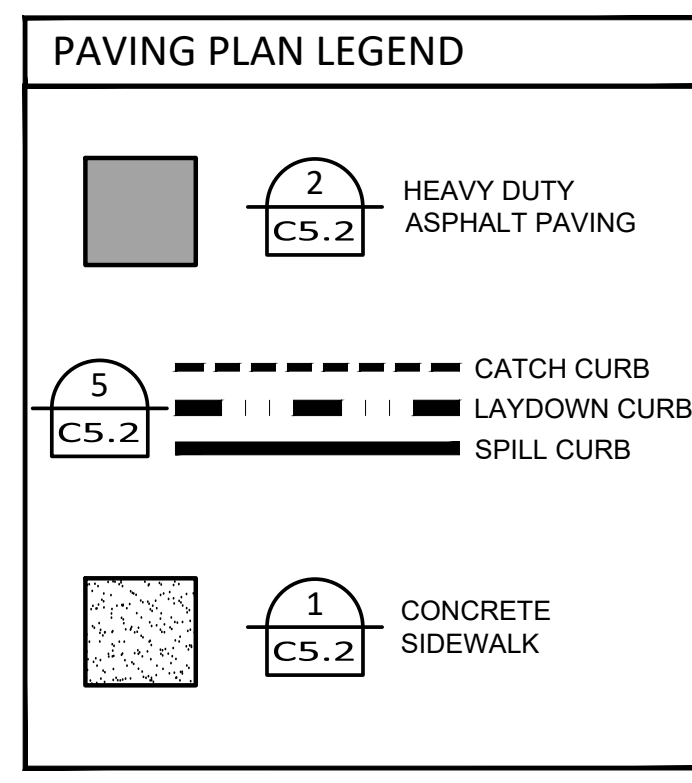
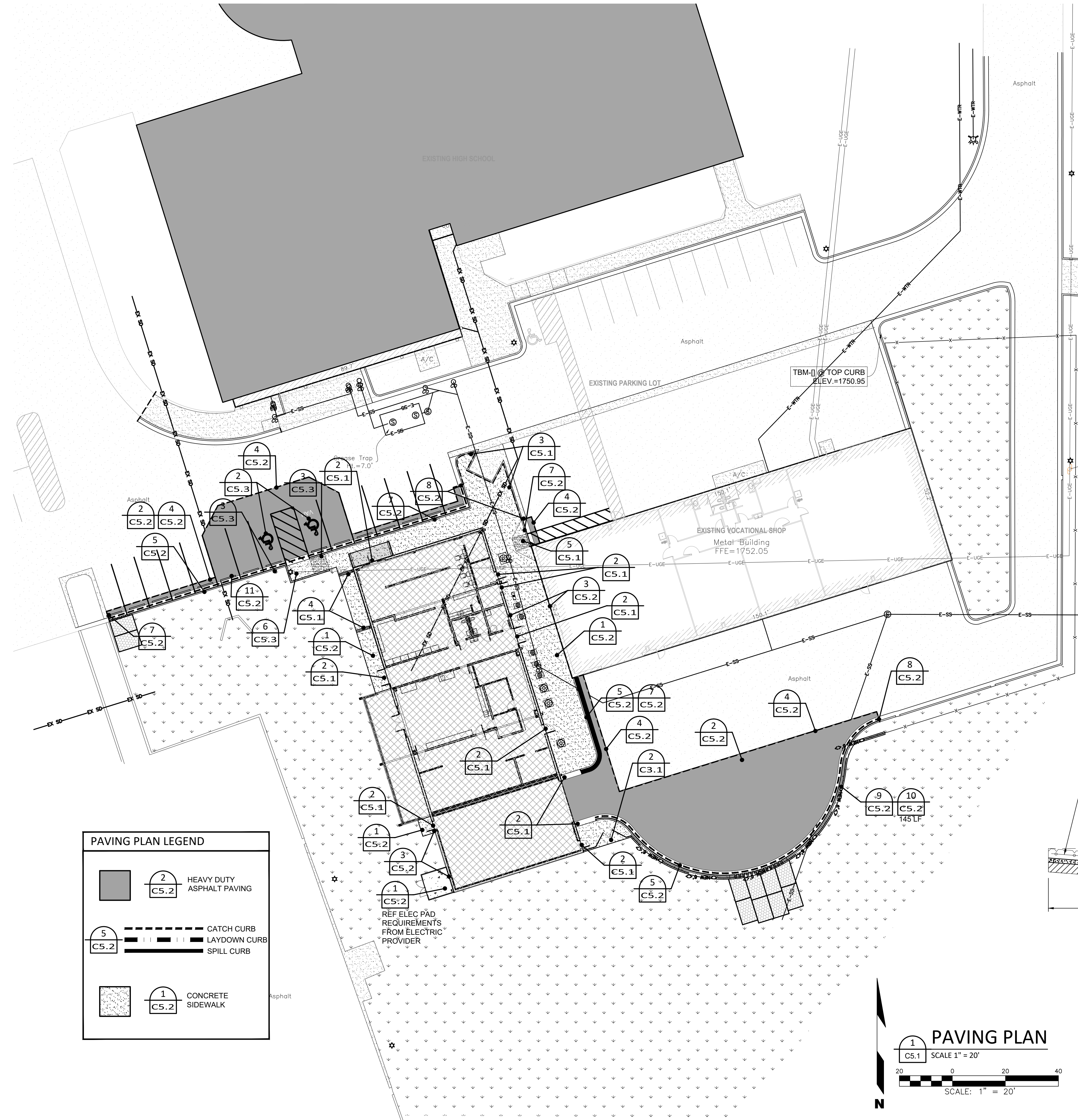
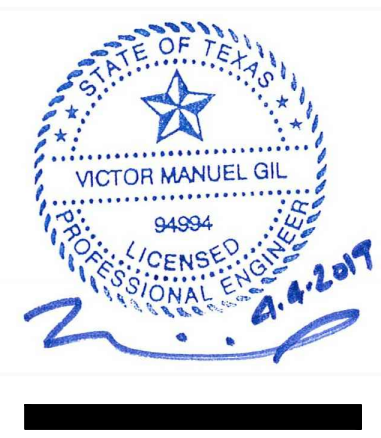
Revision:

Project Number
1703

Date:
4/4/2019

Sheet Number

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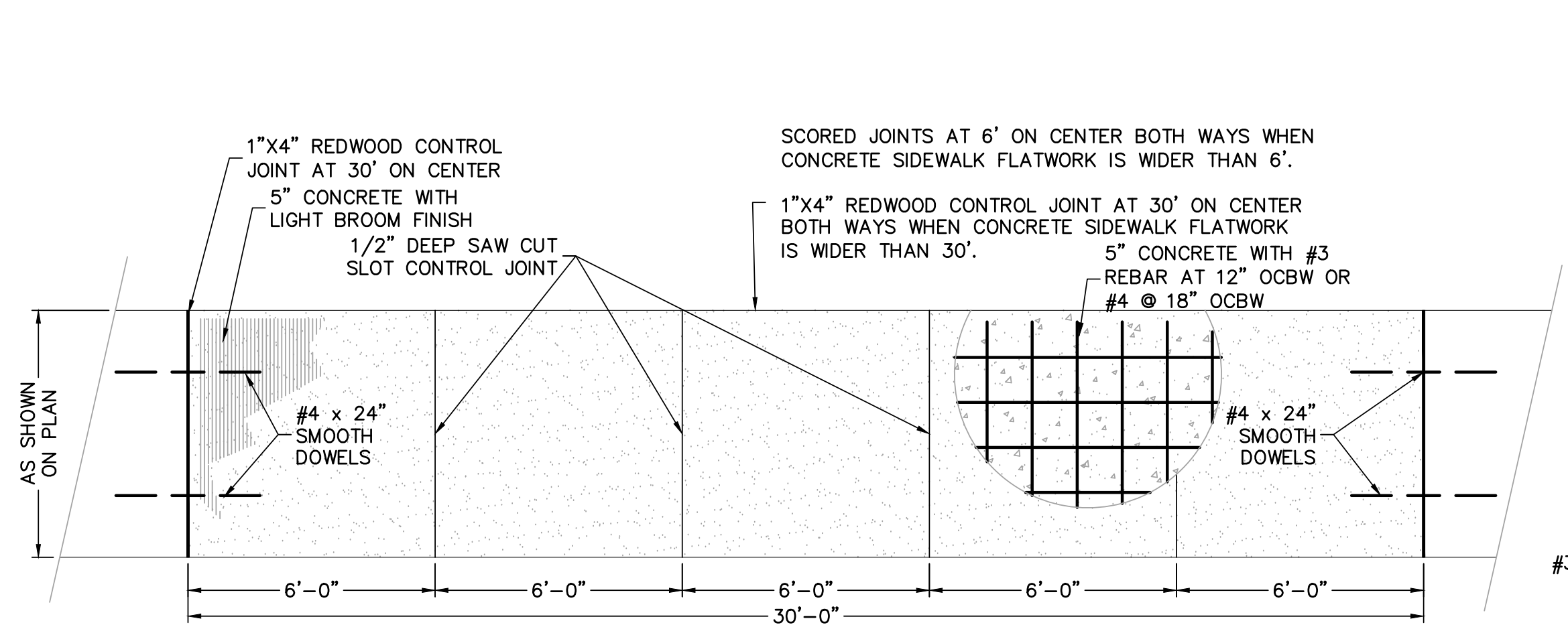
GENERAL NOTES:

- PAVERS WILL HAVE DETECTABLE WARNING THAT CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9 IN. (23MM), A HEIGHT OF NOMINAL 0.2 IN. (5MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. (60MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (RE: ADA SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
- AREA OF RAMP TO INCLUDE CONTRASTING COLOR DOES NOT HAVE TO INCLUDE THE WINGS.
- TYPICAL SIDEWALK WIDTHS AND CURB RADII SHOWN FOR ILLUSTRATION. REFER TO TRANSPORTATION MANUAL FOR SIDEWALK WIDTHS, CURB RADII, AND CURB BASIS.
- CURB RAMPS WITHOUT WINGS SHALL ONLY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK PERPENDICULAR ACROSS THE RAMP.

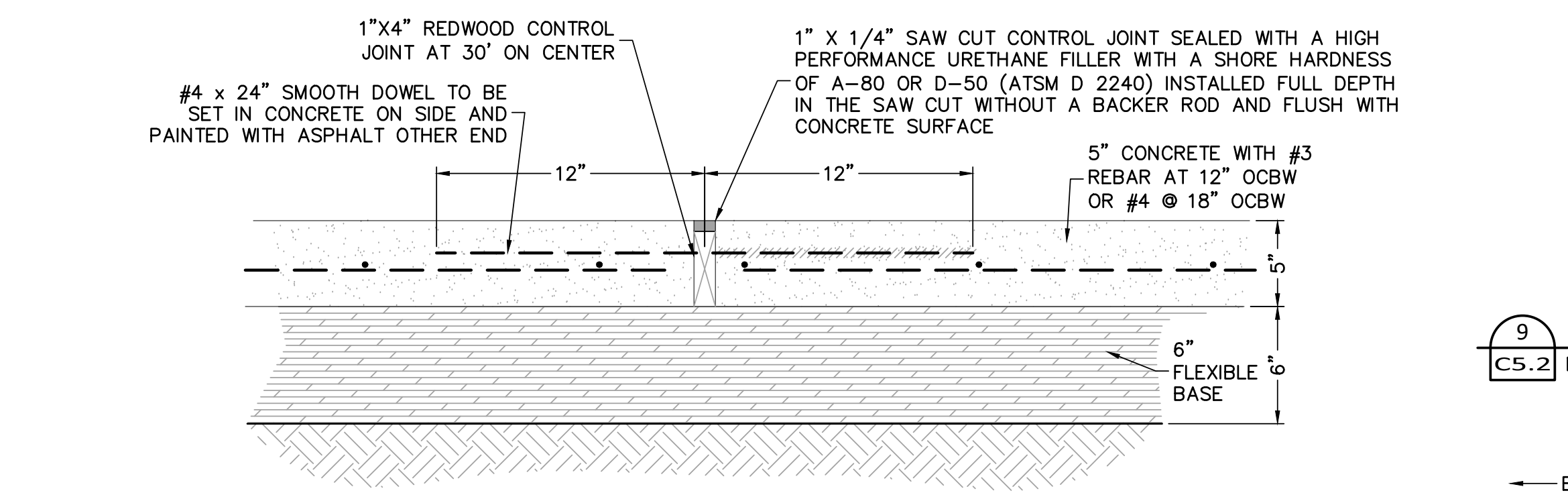
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C5.1

NOT TO SCALE

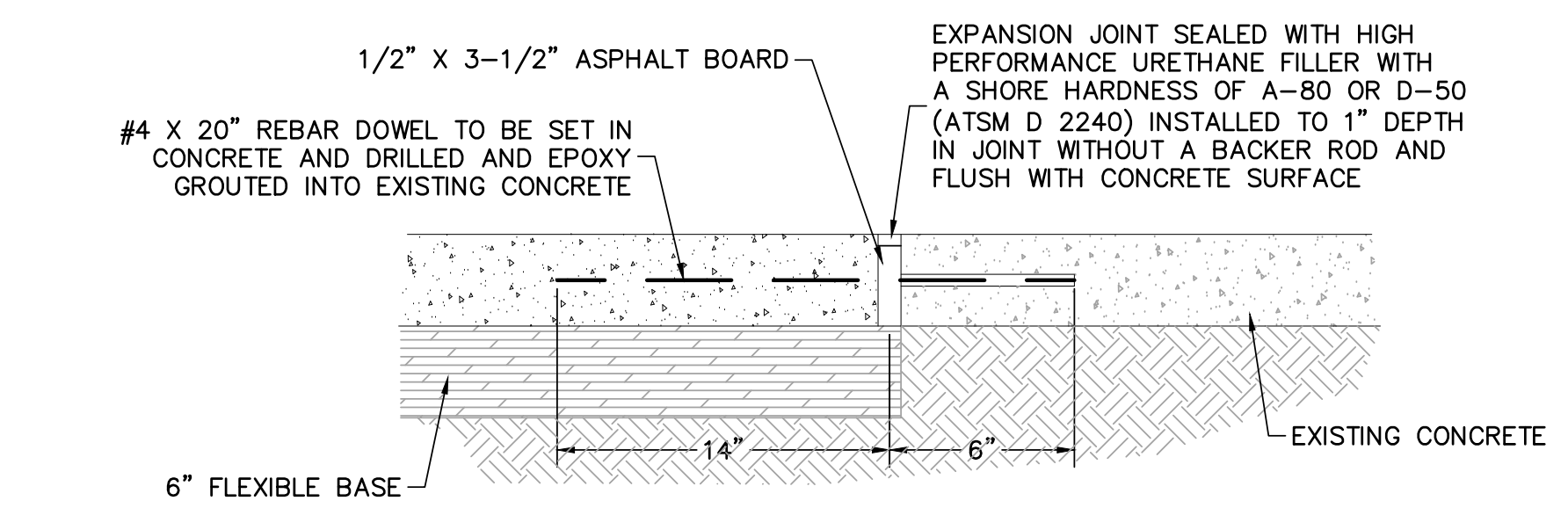
HANDICAPPED RAMP DETAIL



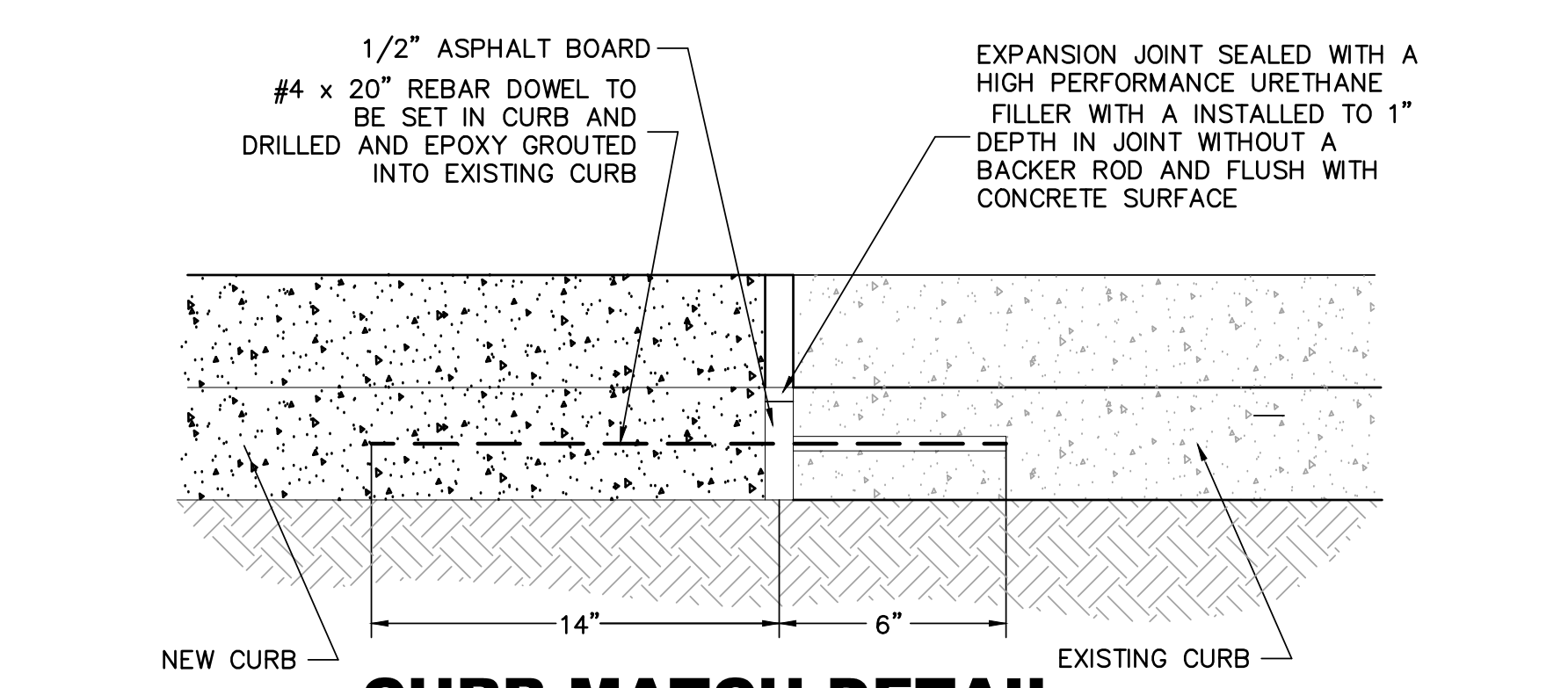
1
 CS.2 NOT TO SCALE
SIDEWALK DETAIL



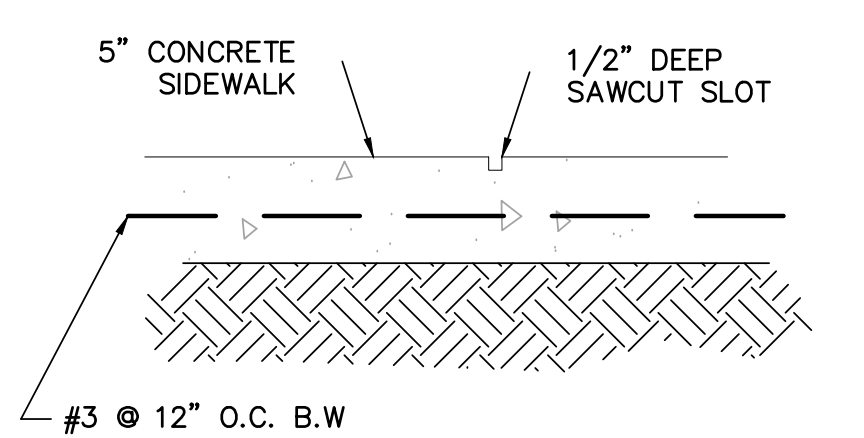
9
 CS.2 NOT TO SCALE
CHAINLINK MOW STRIP DETAIL



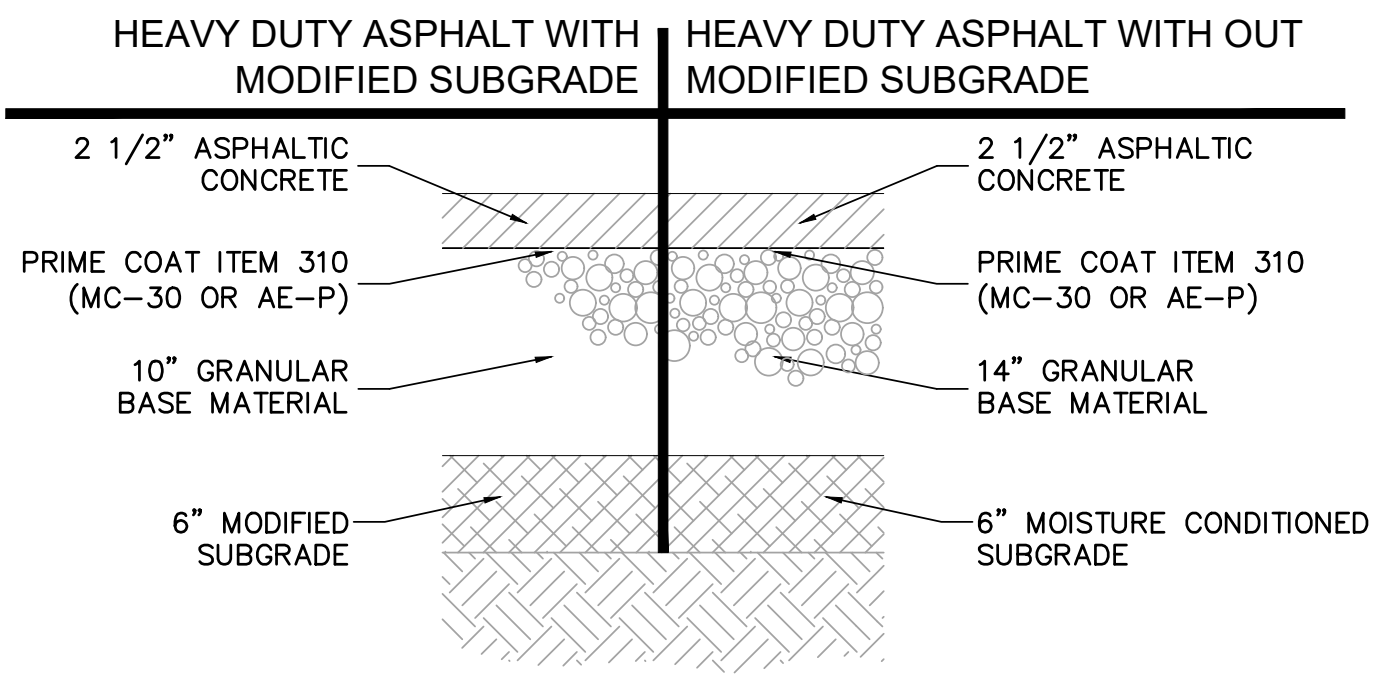
6
 CS.2 NOT TO SCALE
SIDEWALK TO EXISTING CONCRETE



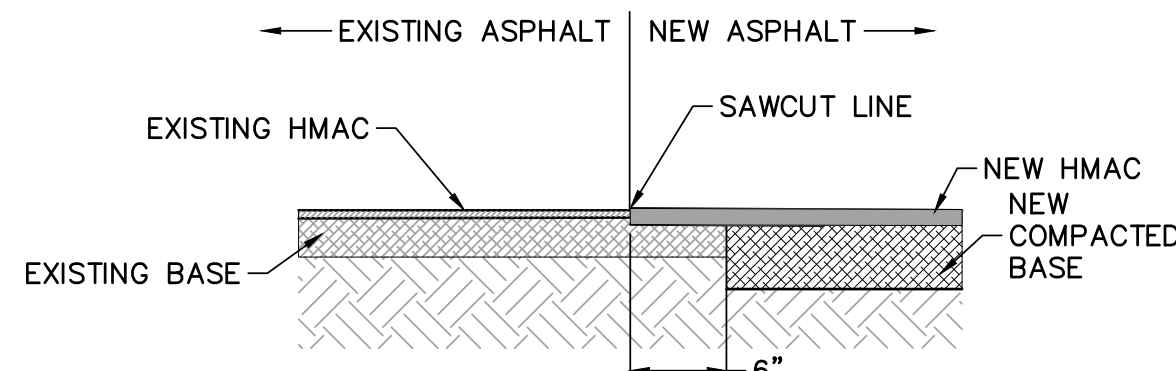
8
 CS.2 NOT TO SCALE
CURB MATCH DETAIL



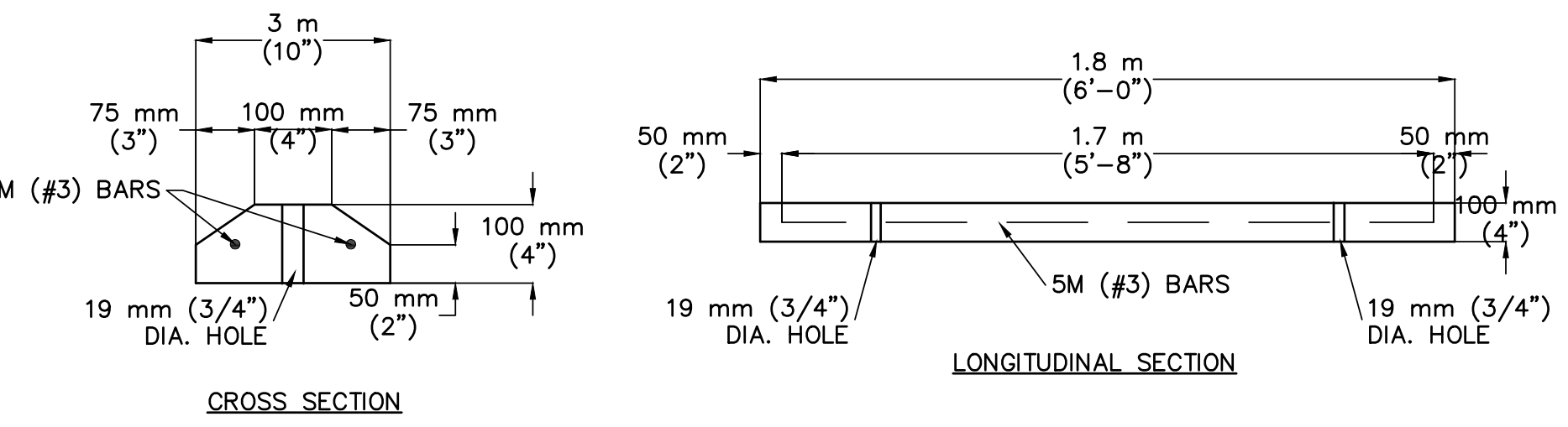
8
 CS.2 NOT TO SCALE
SAWCUT SECTION



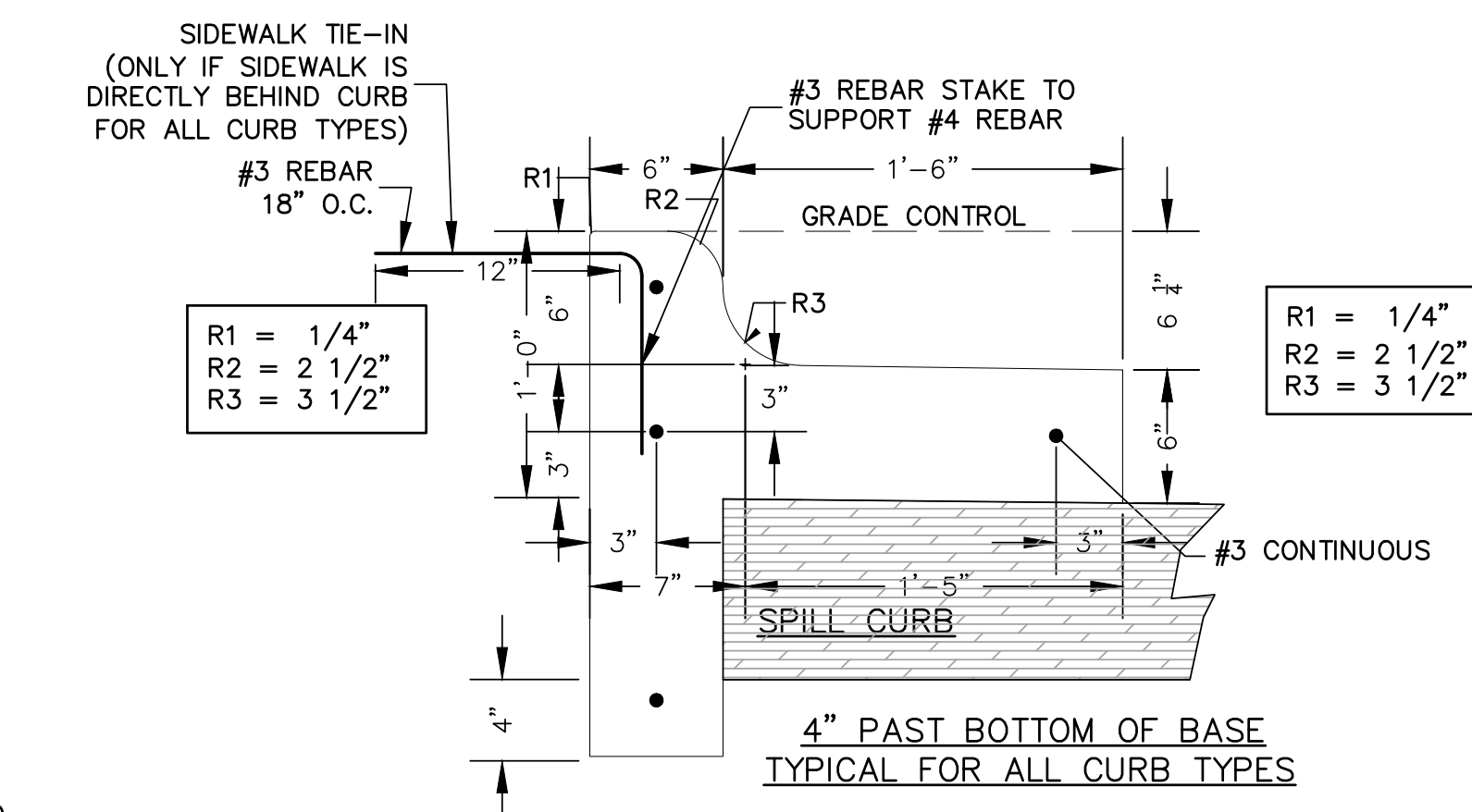
2
 CS.2 NOT TO SCALE
H.M.A.C. (HEAVY DUTY) PAVEMENT SECTION



4
 CS.2 NOT TO SCALE
ASPHALT MATCH DETAIL

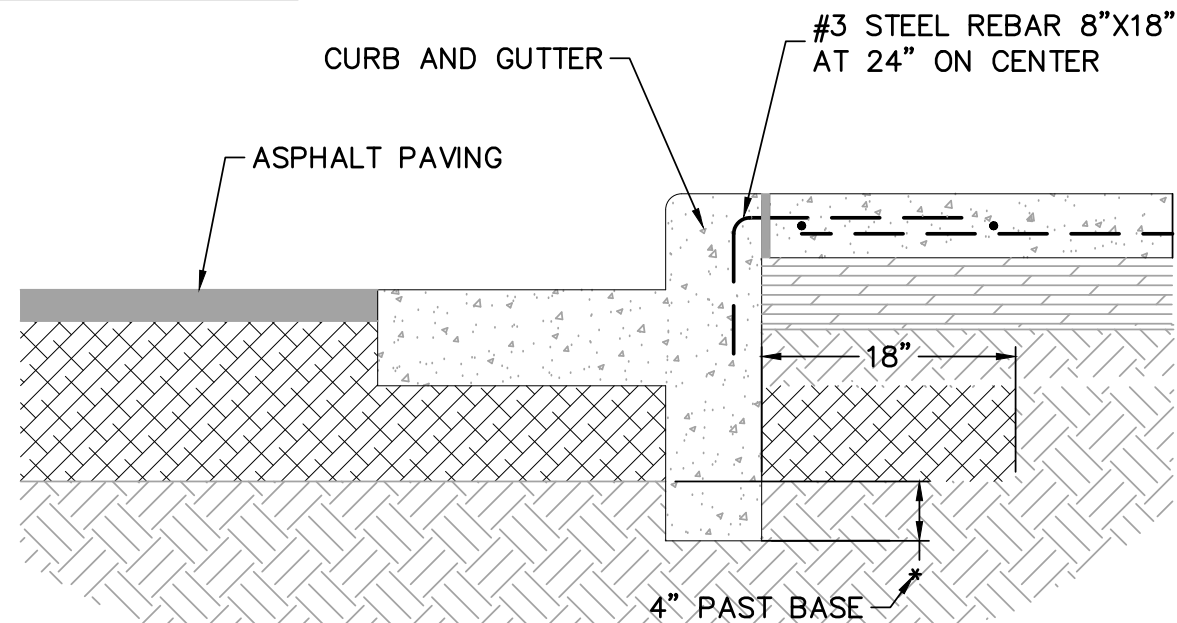


11
 CS.2 NOT TO SCALE
PARKING LOT BUMPER CURB

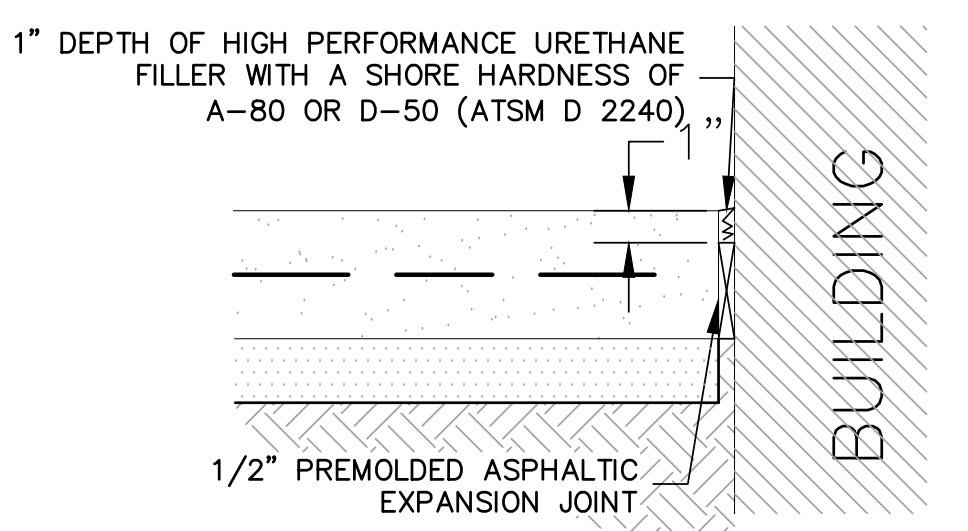


NOTES:
 1. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 18".
 2. CURB AND GUTTER SHALL HAVE FORMER TOOLED OR SAWED CONTRACTION JOINTS AT $\pm 10'$. THE DEPTH OF THESE JOINTS SHALL BE SUFFICIENT TO ENSURE CRACKING AT THE JOINTS.
 3. CURB OR CURB AND GUTTER SHALL HAVE EXPANSION JOINTS AT POINTS OF CURVATURE, AT INTERVALS NO GRATER THAN 120', AND AT ALL ADJACENT STRUCTURES.
 4. UNLESS OTHERWISE SHOWN, TRANSITIONS BETWEEN CURBS OR CURBS AND GUTTER OF DIFFERING CROSS SECTION SHALL BE ACCOMPLISHED OVER A 10' LENGTH OR AS APPROVED BY THE ENGINEER.
 5. ALL CONCRETE TO BE CLASS "A" 3000 PSI CONCRETE.
 6. ALL EXPOSED CONCRETE SURFACES TO BE BRUSHED SMOOTH AND UNIFORM.

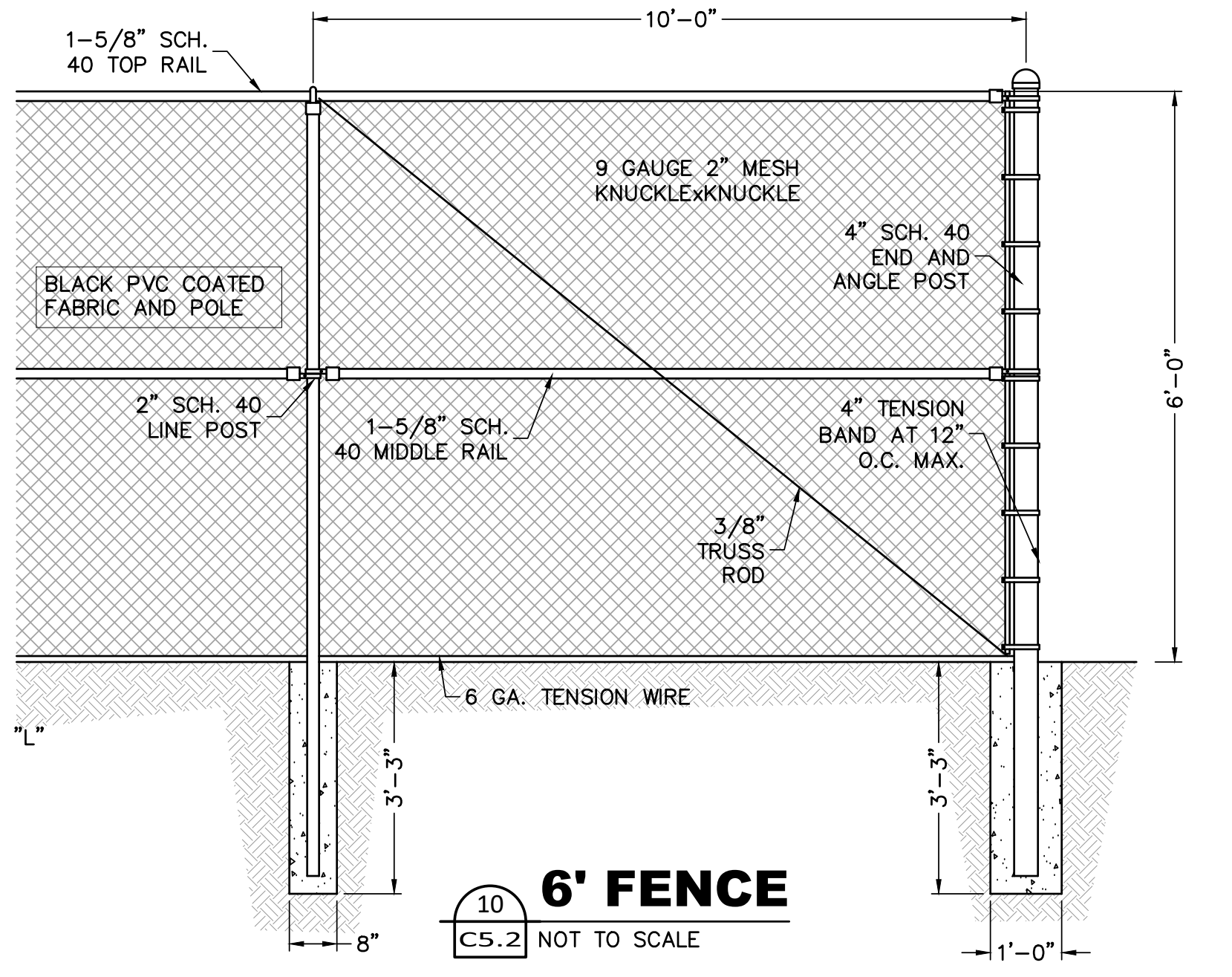
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 CS.2 NOT TO SCALE
CURB AND GUTTER SECTION



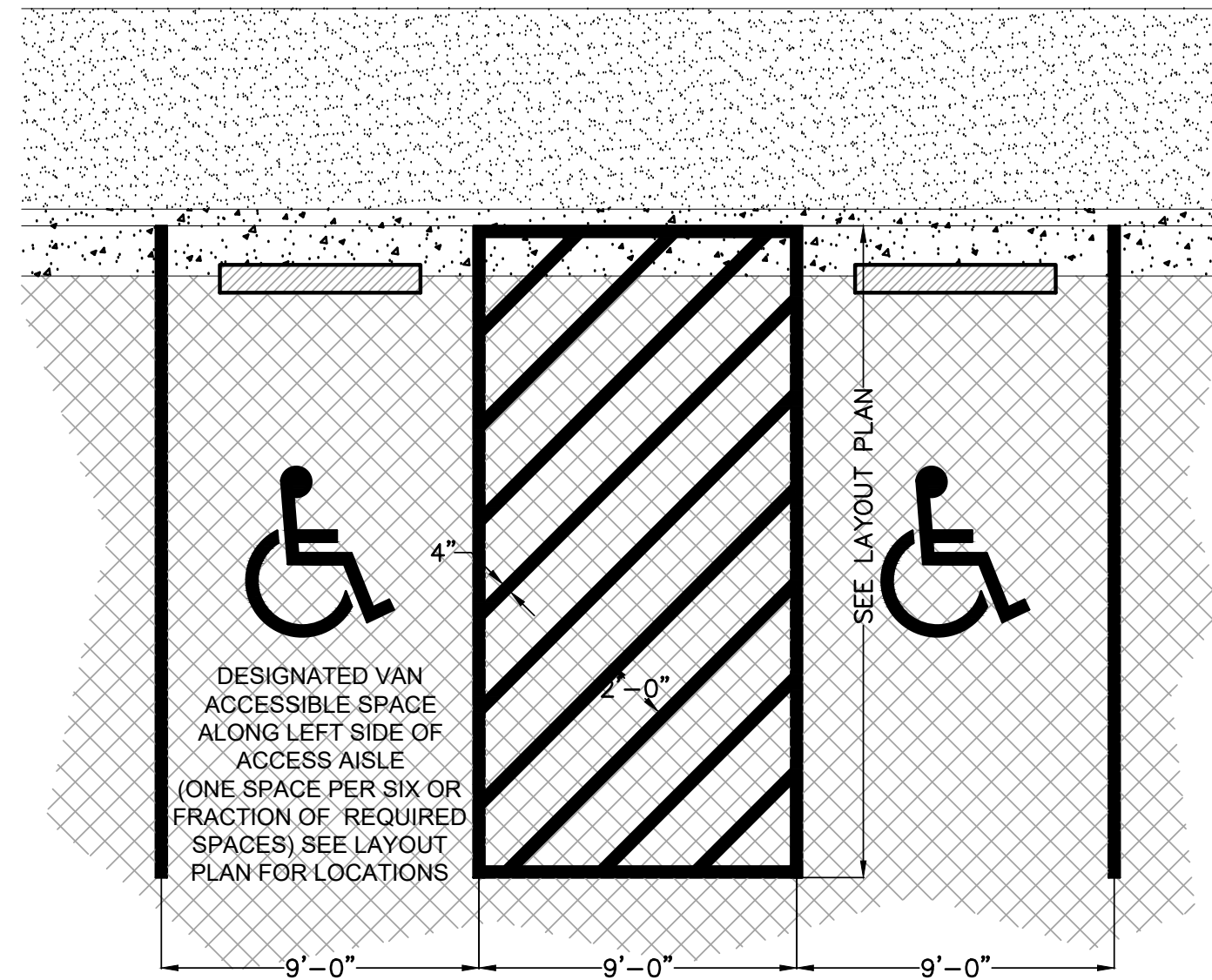
7
 CS.2 NOT TO SCALE
SIDEWALK TO CURB CONNECTION



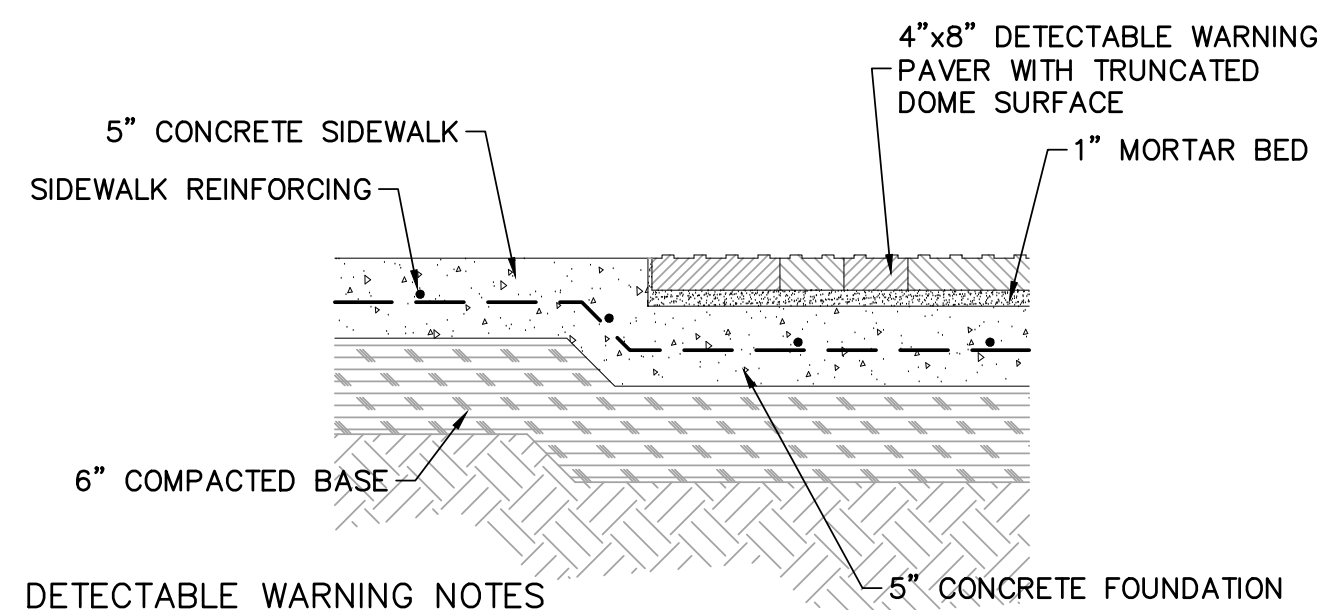
3
 CS.2 NOT TO SCALE
SIDEWALK AT BUILDING



10
 CS.2 NOT TO SCALE
6' FENCE



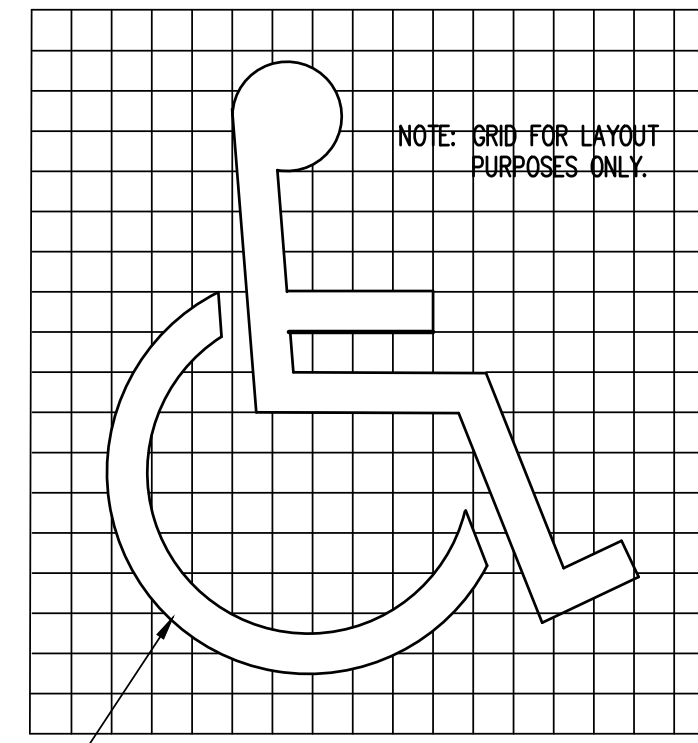
1
TYPICAL HANDICAPPED PARKING LAYOUT
CS.3 NOT TO SCALE



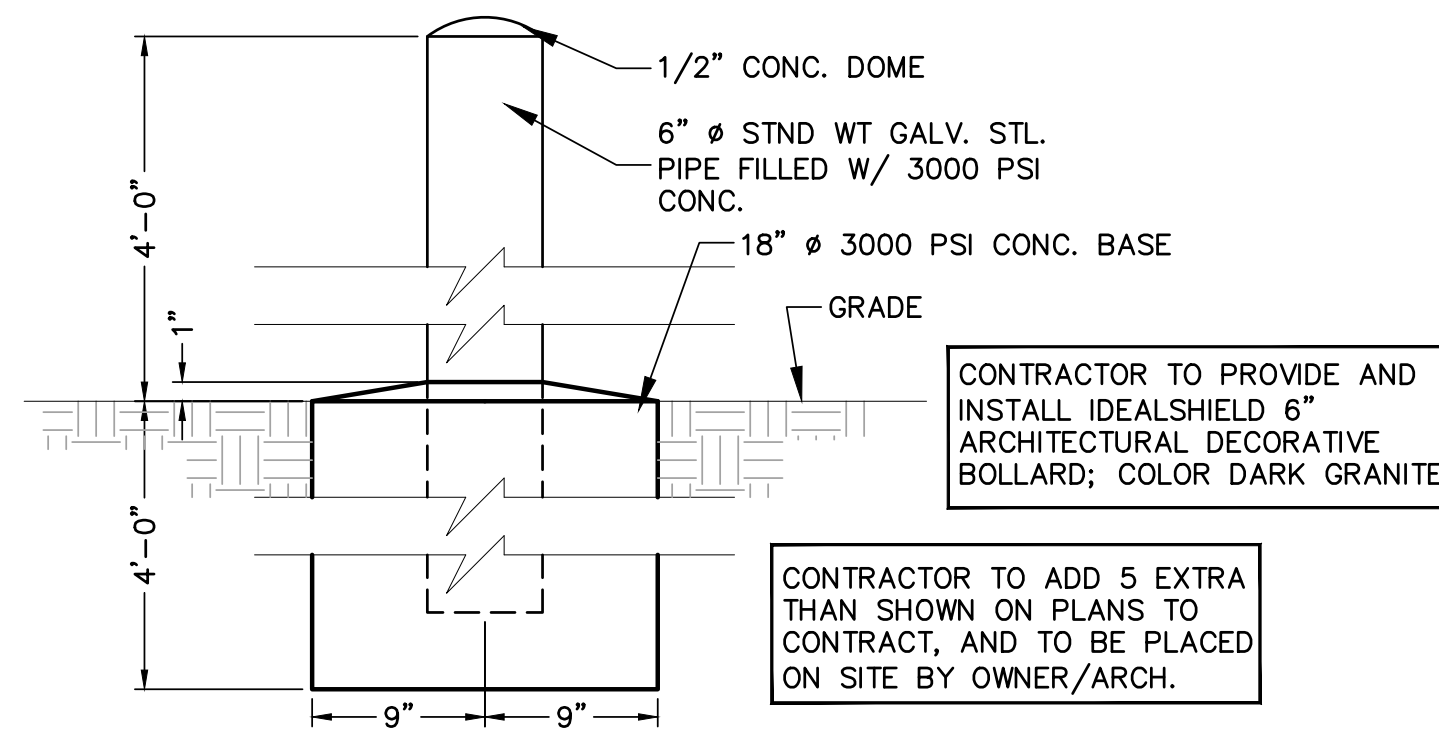
DETECTABLE WARNING NOTES

1. CURB RAMP OR LANDINGS ABUTTING THE CROSSWALK MUST HAVE A DETECTABLE WARNING SURFACE WHAT CONSISTS OF USED TRUNCATED DOME COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARE. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
2. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
6. FURNISH DETECTABLE WARNING PAVER UNITS MEETING ALL REQUIREMENTS OF ASTM C-936, C-33. LAY IN A TWO BY TWO UNIT BASKET WEAVE PATTERN OR AS DIRECTED.
7. LAY FULL-SIZE UNITS FIRST FOLLOWED BY CLOSURE UNITS CONSISTING OF AT LEAST 25 PERCENT OF A FULL UNIT. CUT DETECTABLE WARNING PAVER UNITS USING A POWER SAW.

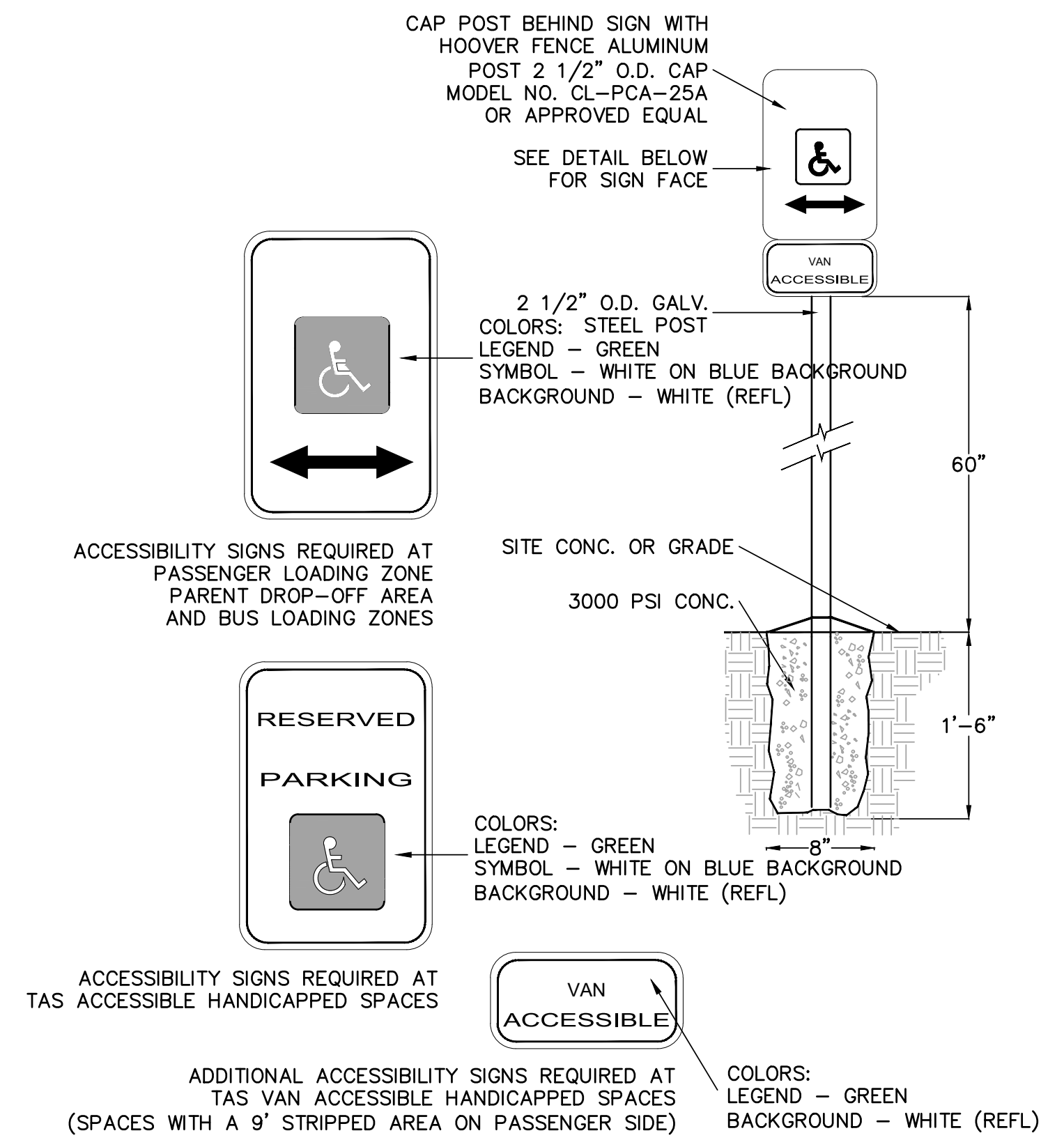
4
DETECTABLE WARNING PAVER
CS.3 SCALE: 1"= 1'-0"



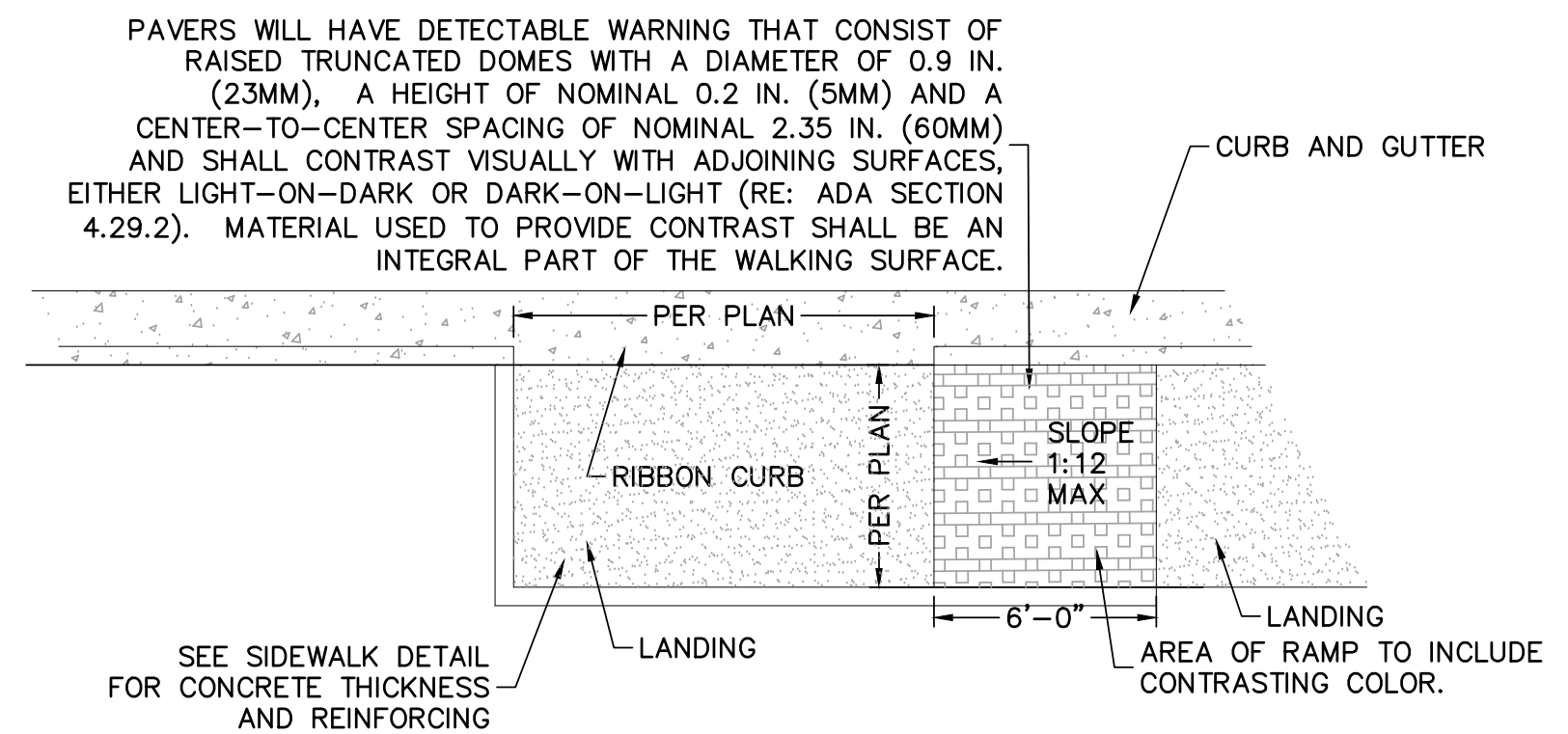
2
SITE HANDICAPPED SYMBOL
CS.3 NOT TO SCALE



5
BOLLARD DETAIL
CS.3 NOT TO SCALE



3
SITE HANDICAPPED SIGN
CS.3 NOT TO SCALE



6
HANDICAPPED RAMP
CS.3 NOT TO SCALE



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GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE



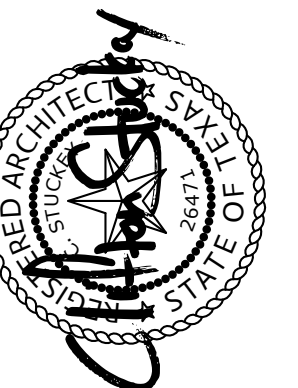
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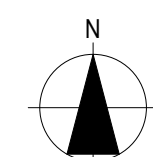
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1 DISTRICT PLAN
SCALE: 1" = 200'



Brady Independent School District
BOND 2018 PROJECTS
Brady, Texas

Revision:

Project Number
1703

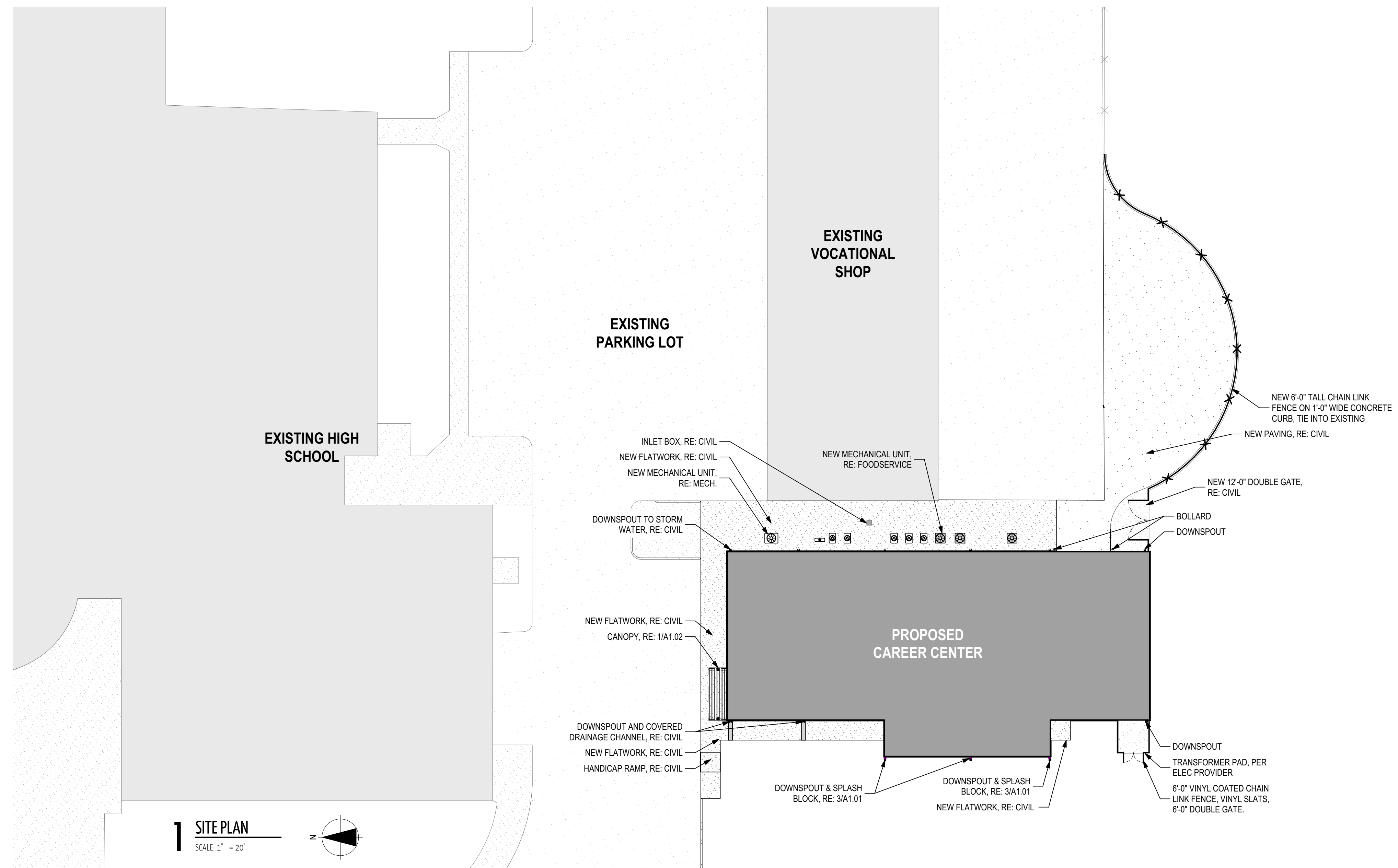
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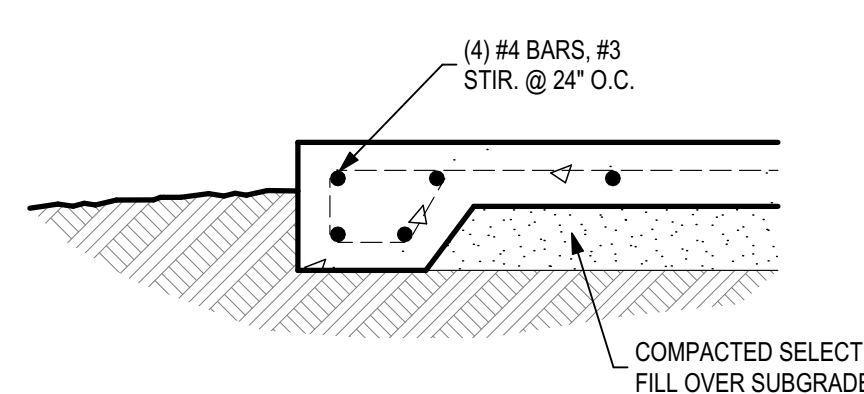
OVERALL SITE PLAN **A1.00**

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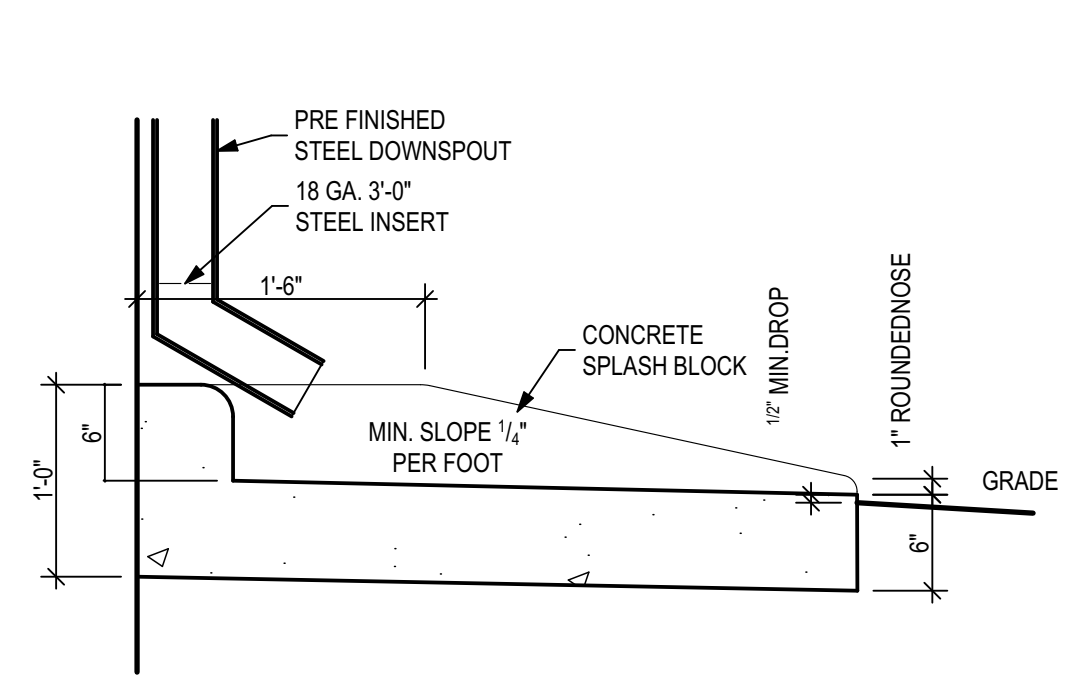
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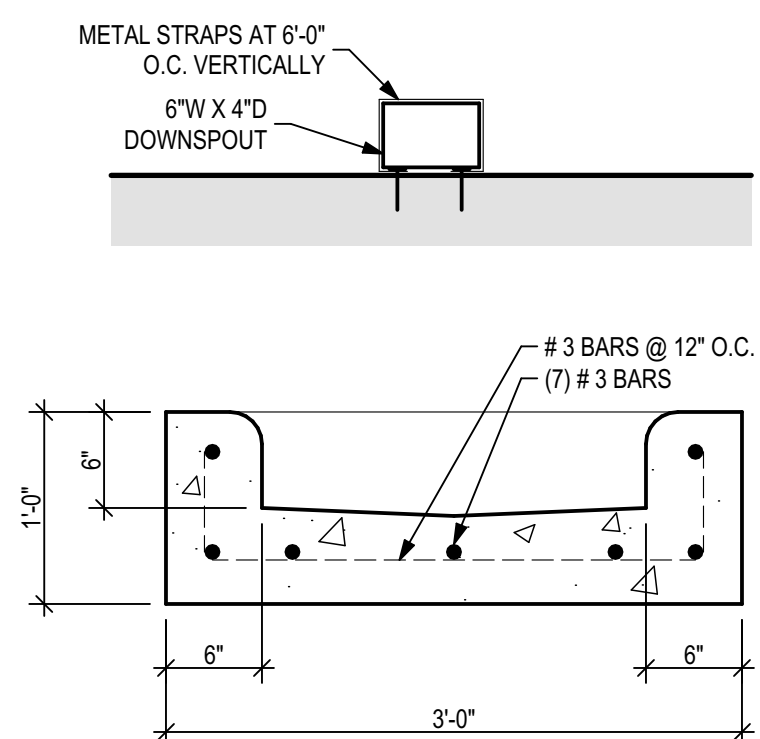
1 SITE PLAN
SCALE: 1" = 20'



2 MECHANICAL PAD, TYP.
SCALE: 1" = 1'-0"



3 DOWNSPOUT WITH SPLASH BLOCK
SCALE: 1" = 1'-0"



GENERAL NOTES
REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE

SITE PLAN LEGEND

	EXISTING BUILDING
	EXISTING PAVING
	EXISTING FLATWORK
	NEW BUILDING
	NEW CANOPY
	NEW PAVING
	NEW FLATWORK

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REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE



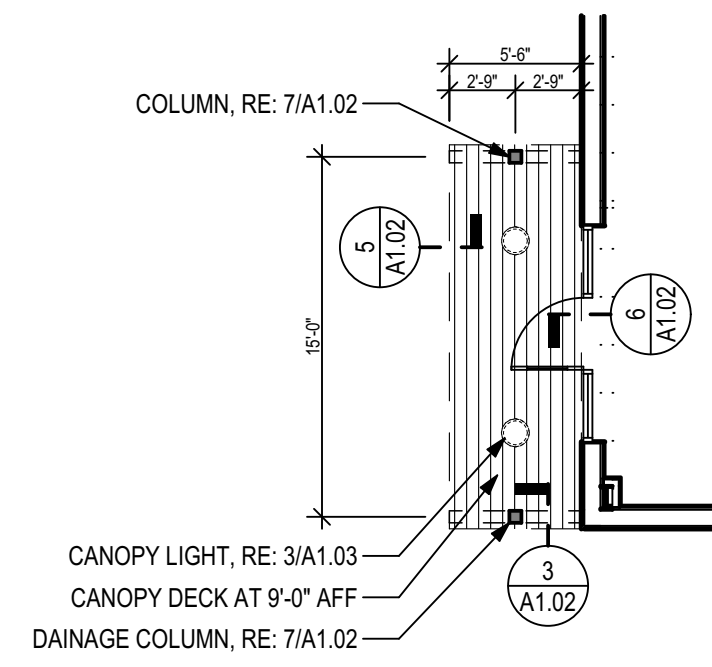
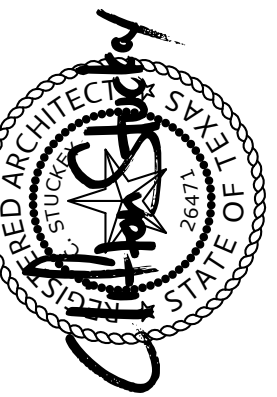
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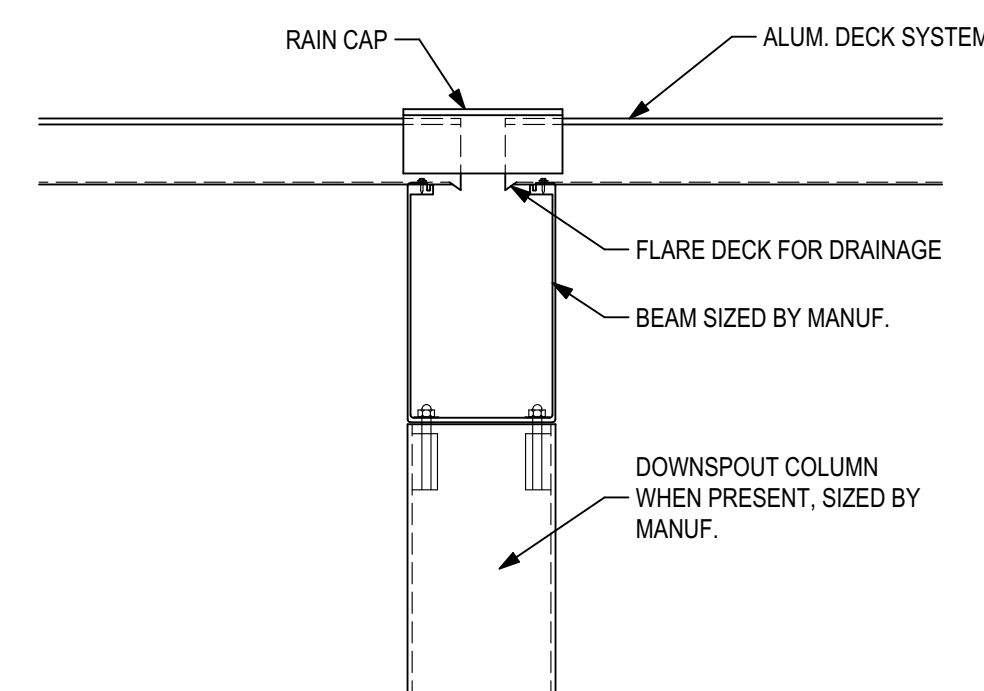
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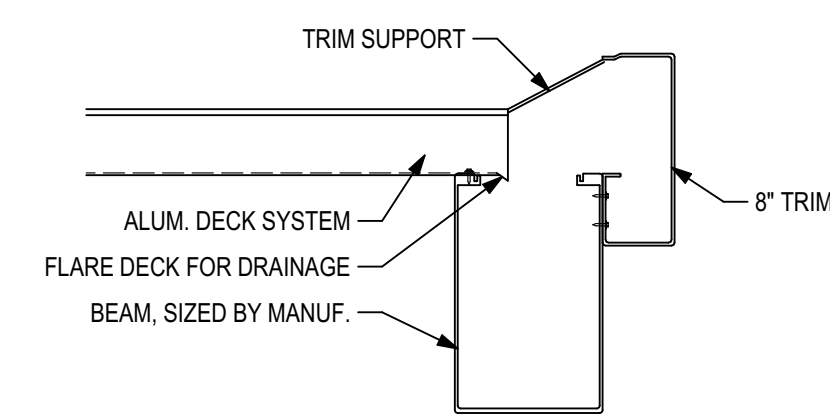
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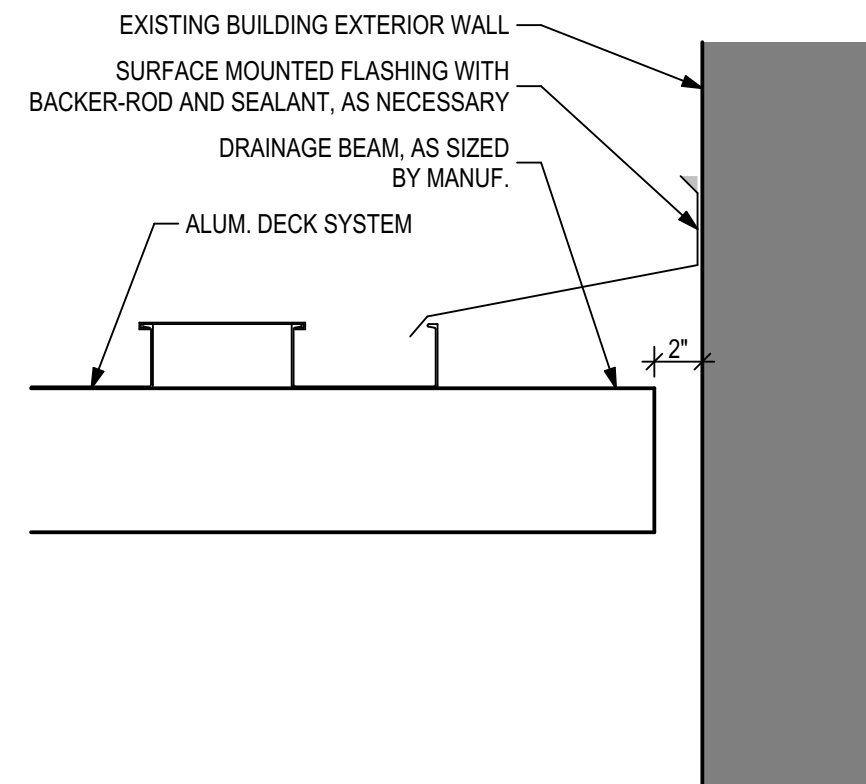
1 CANOPY 'B' PLAN
 SCALE: 1/8" = 1'-0"



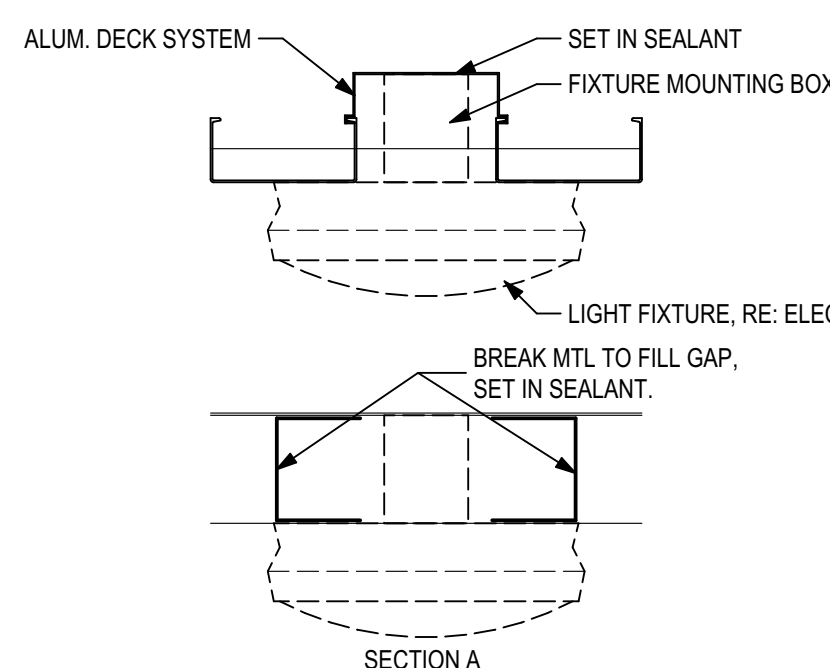
2 COLUMN & BEAM, TYP.
 SCALE: 1 1/2" = 1'-0"



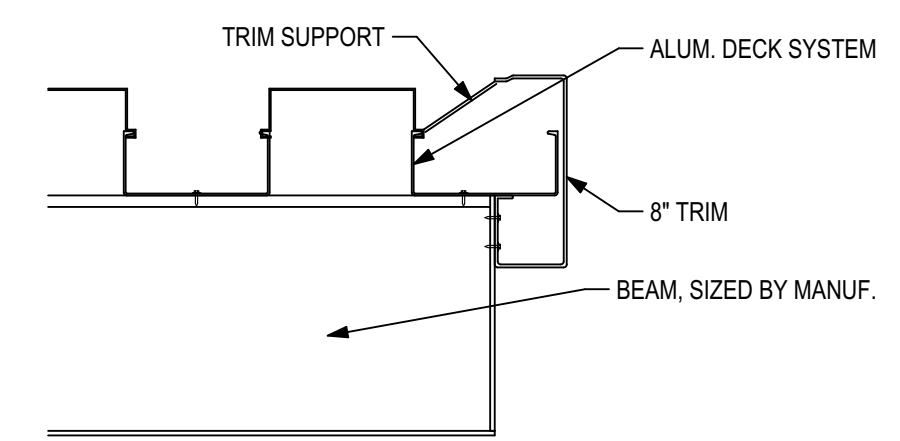
3 END TRIM, TYP.
 SCALE: 1 1/2" = 1'-0"



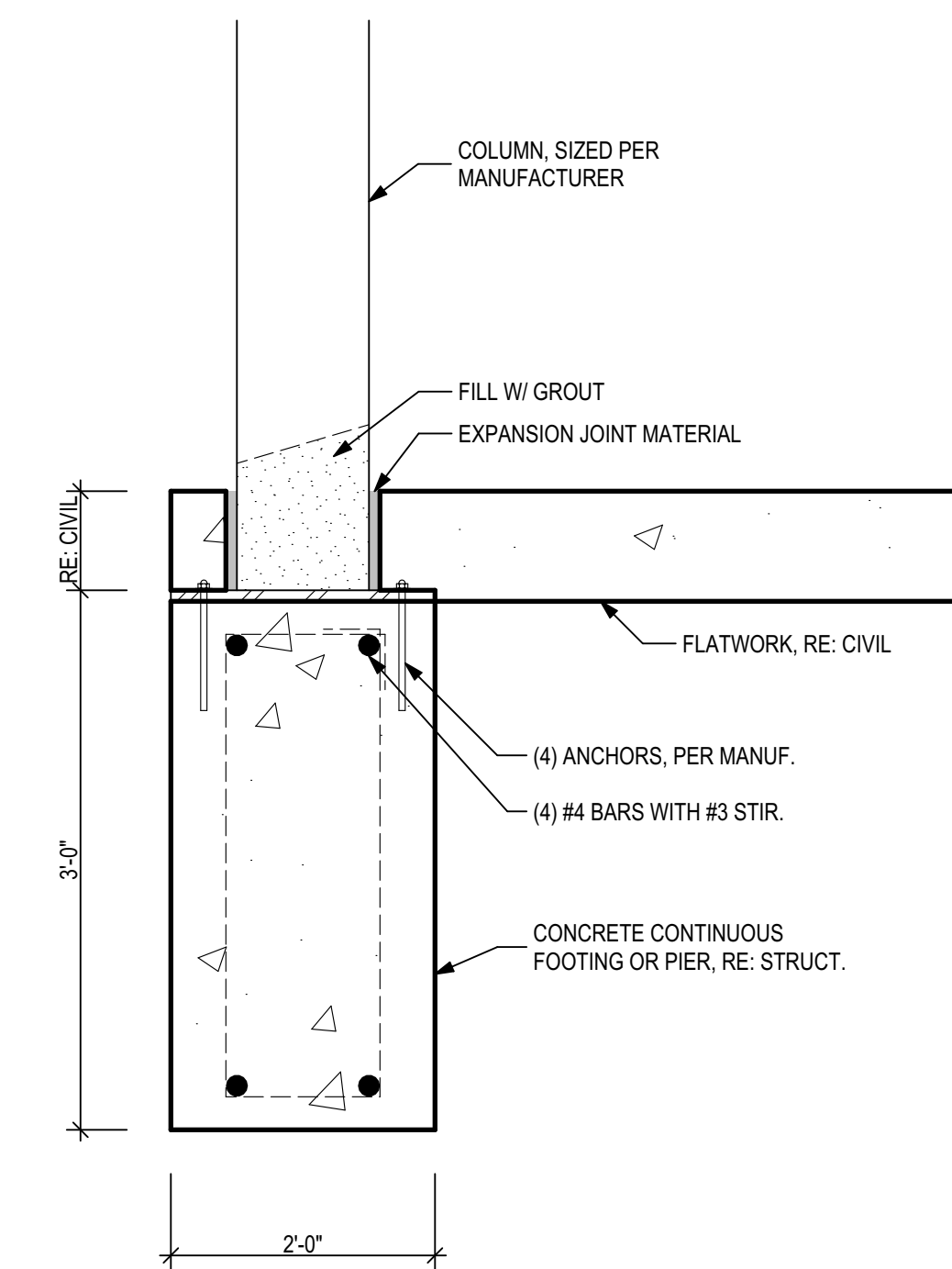
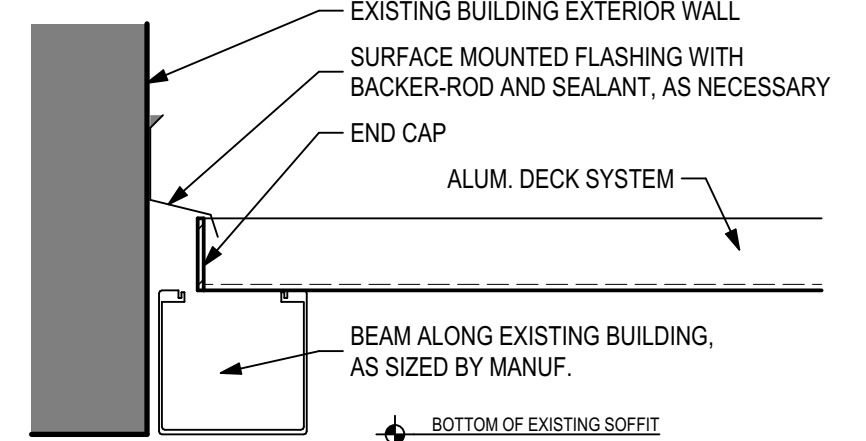
6 FLASHING AT BUILDINGS
 SCALE: 1 1/2" = 1'-0"



4 LIGHT FIXTURE, TYP.
 SCALE: 1 1/2" = 1'-0"



5 END TRIM
 SCALE: 1 1/2" = 1'-0"



7 EMBEDDED FOOTING, TYP.
 SCALE: 1 1/2" = 1'-0"

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DEMOLITION KEYED NOTES

- D1 DEMO VCT FLOORING, ACOUSTIC TILE CEILING, LIGHTS, CASEWORK, MARKERBOARDS, TACKBOARDS, LOCKERS, WALL MOUNTED CONDUIT.
- D2 DEMO DOOR AND FRAME. INFILL TO MATCH EXISTING PARTITION FOR PORTION NOT REPLACED WITH NEW DOOR AND FRAME.
- D3 DEMO MECHANICAL CLOSET, PATCH AS NECESSARY.
- D4 DEMO DOOR ONLY. FRAME TO REMAIN.
- D5 DEMO PARTITION, FULL. PATCH AS NECESSARY.
- D6 DEMO PARTITION FOR NEW DOOR AND FRAME
- D7 DEMO TILE FLOORING, CEILING, LIGHTS, PLUMBING FIXTURES, TOILET ACCESSORIES, TOILET PARTITIONS.
- D8 DEMO EWC
- D9 DEMO WINDOW AND INFILL AS SHOWN
- D10 DEMO GLAZING ABOVE AND INFILL AS SHOWN
- D11 DEMO MECHANICAL UNITS AND PADS, RE: MECH
- D12 DEMO SINKS AND PLAM CASEWORK
- D13 DEMO EXISTING CORRIDOR WALL TILE, BID ALTERNATE #5
- D14 DEMO PARTITION AND REPLACE IN PLACE O6M PARTITION, BID ALTERNATE #4

GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE



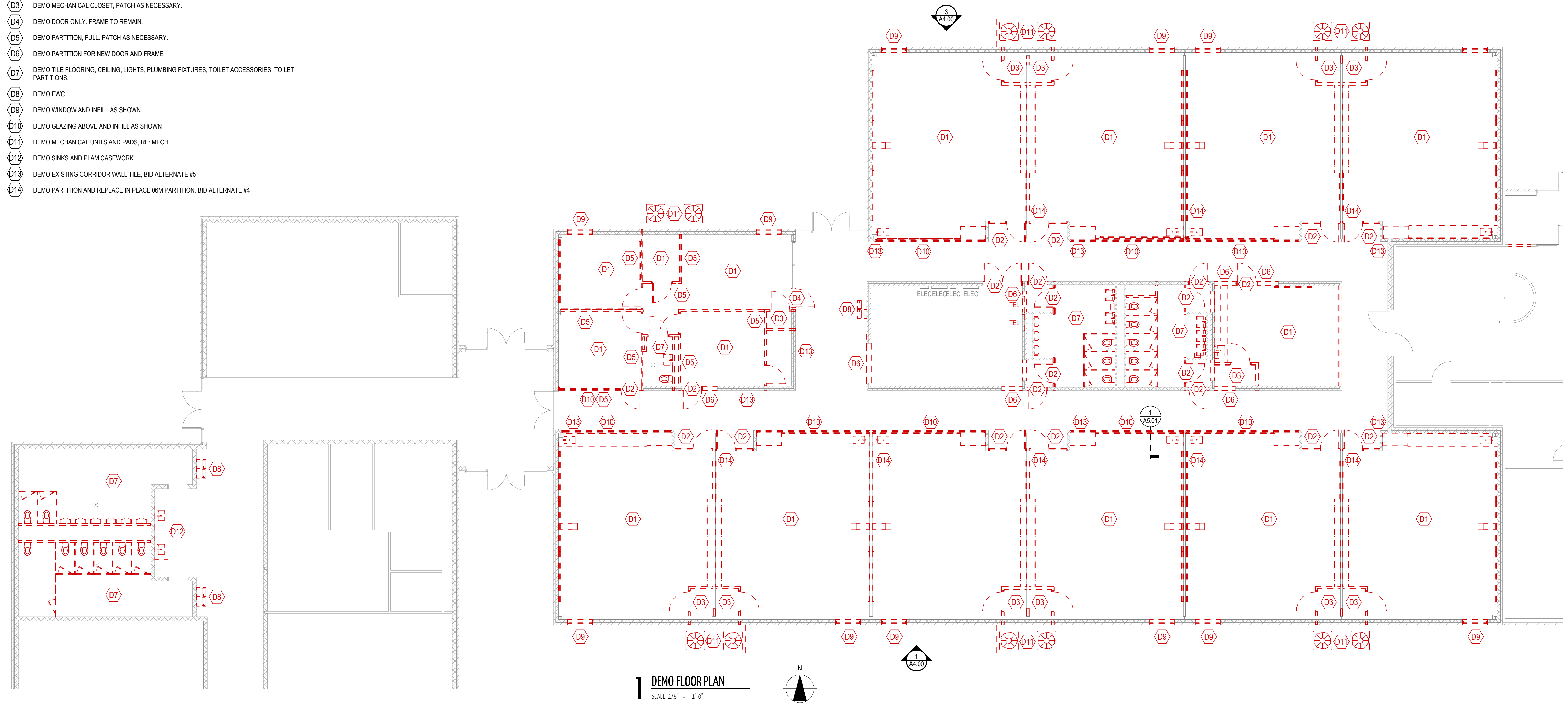
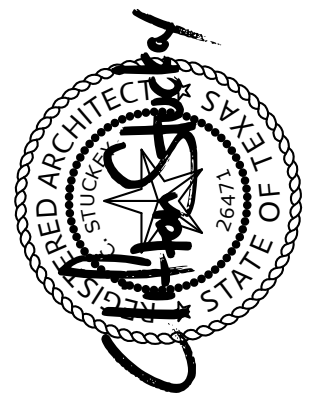
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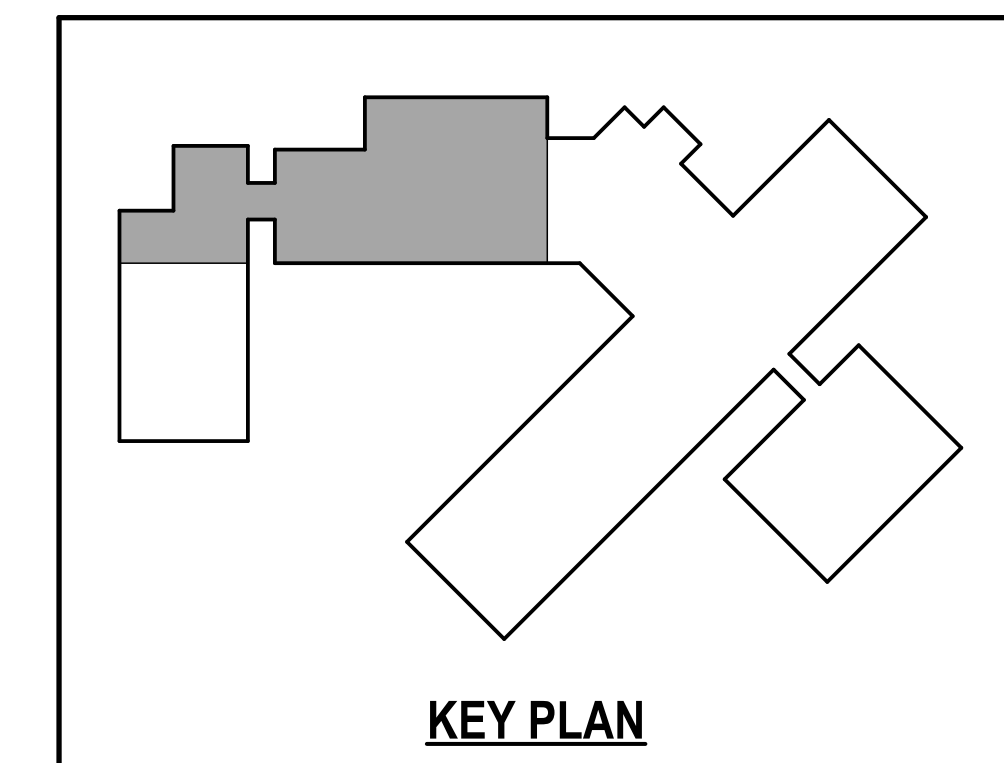
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CORRIDOR WALLS, INTERIOR CORE: EXPOSED BRICK
 CORRIDOR WALLS, OUTSIDE PERIMETER: TILE OVER CMU.
 SEE BID ALTERNATE #5.



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GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE
 REFER TO SHEET A7.04 FOR PARTITION SCHEDULE



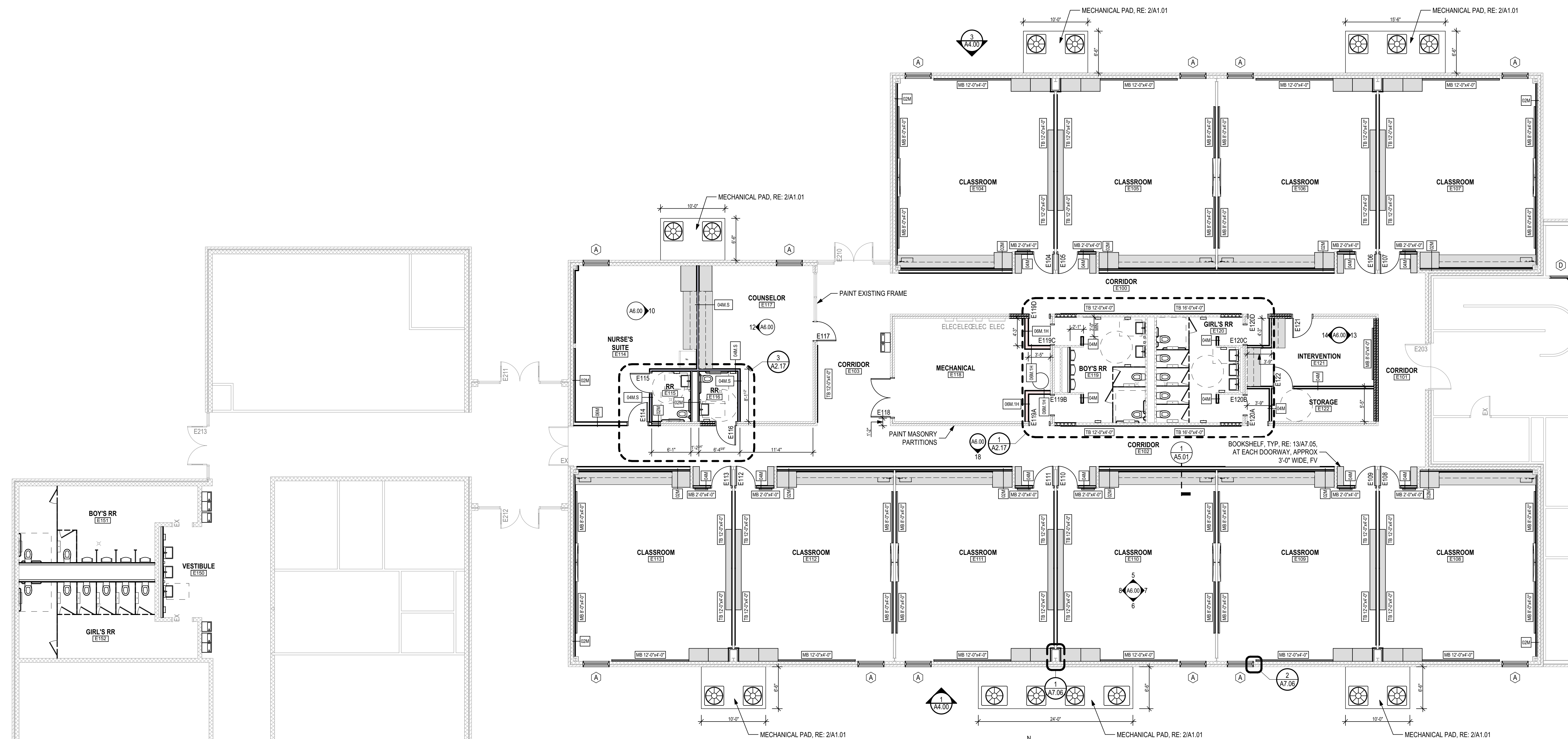
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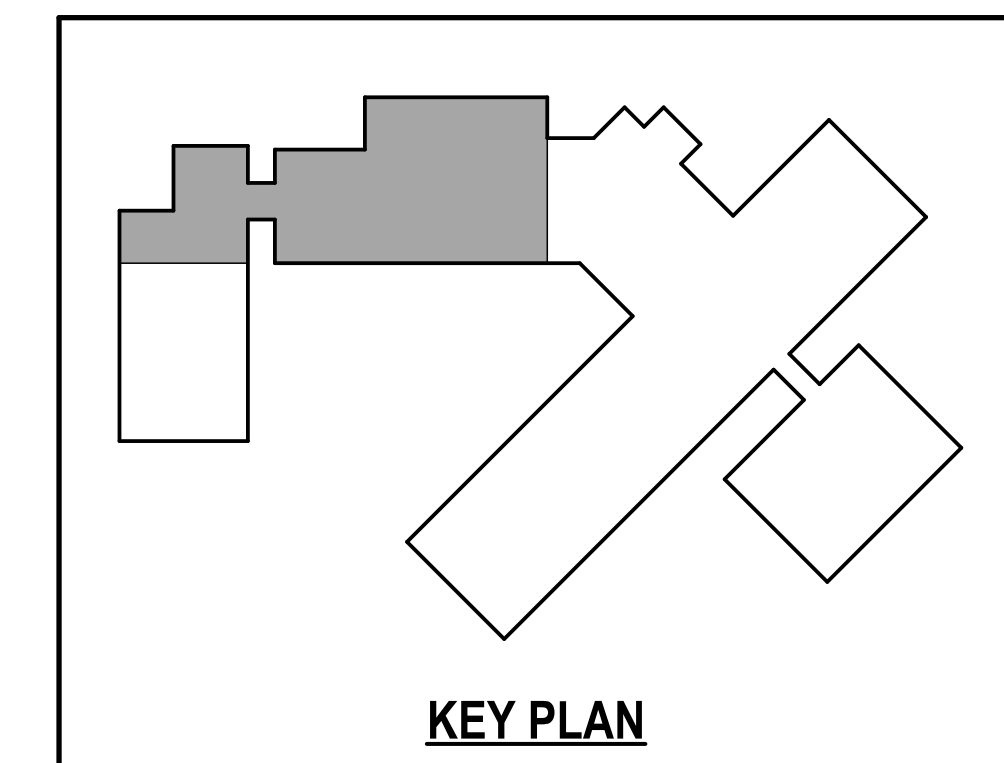
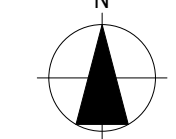
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1 ELEMENTARY RENOVATIONS FLOOR PLAN
 SCALE: 1/8" = 1'-0"



KEY PLAN

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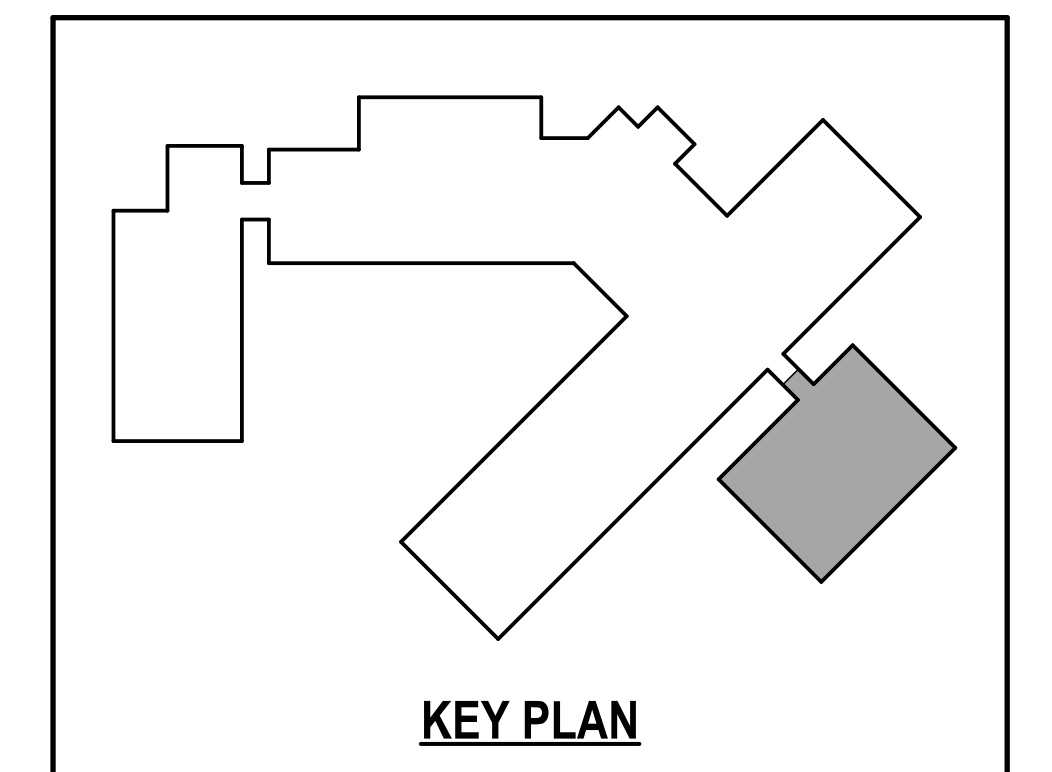
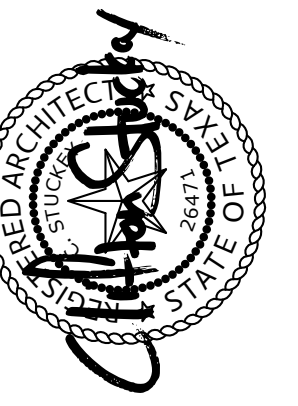
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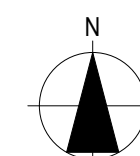
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1 FLOOR PLAN
SCALE: 1/8" = 1'-0"



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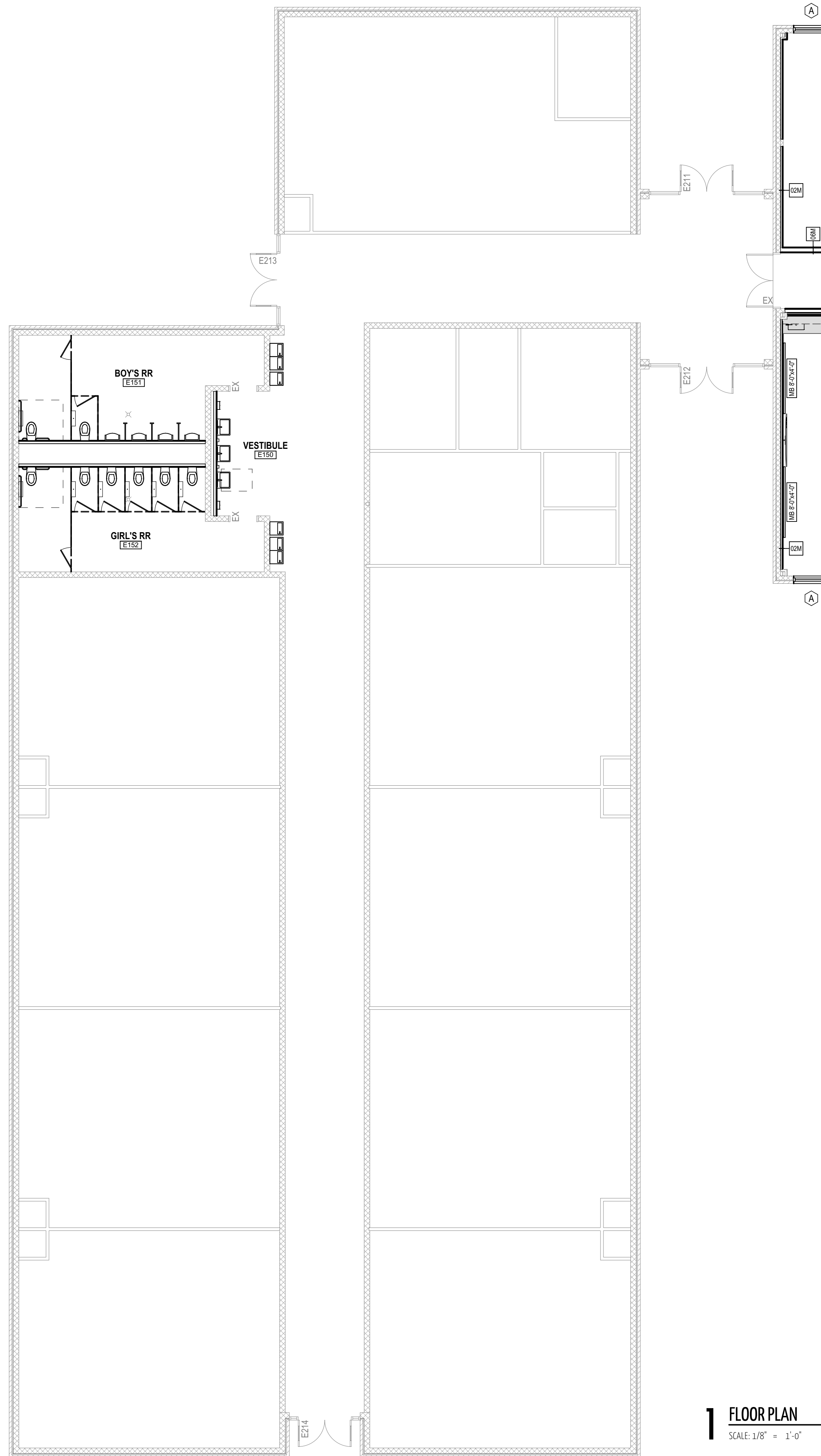
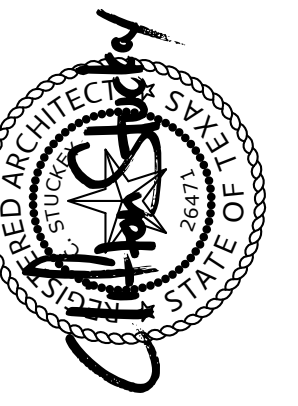
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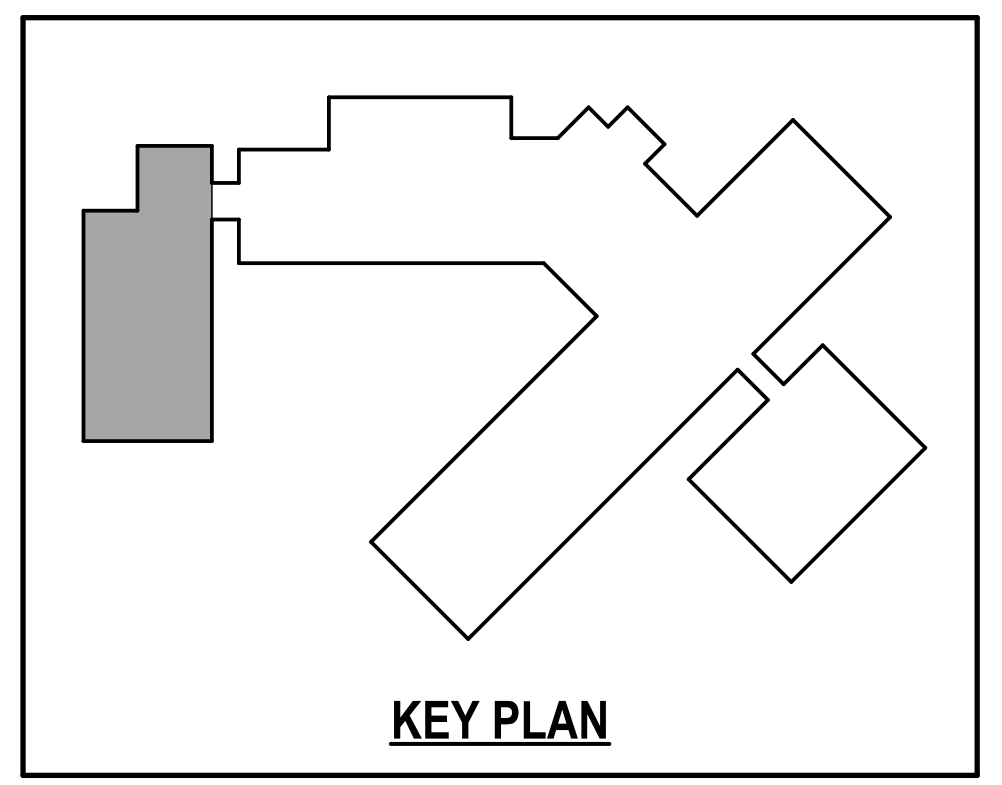
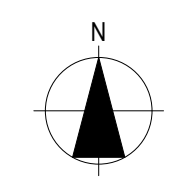
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1 FLOOR PLAN
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KEY PLAN

ELEMENTARY ACCESS DOORS PLAN

A2.05

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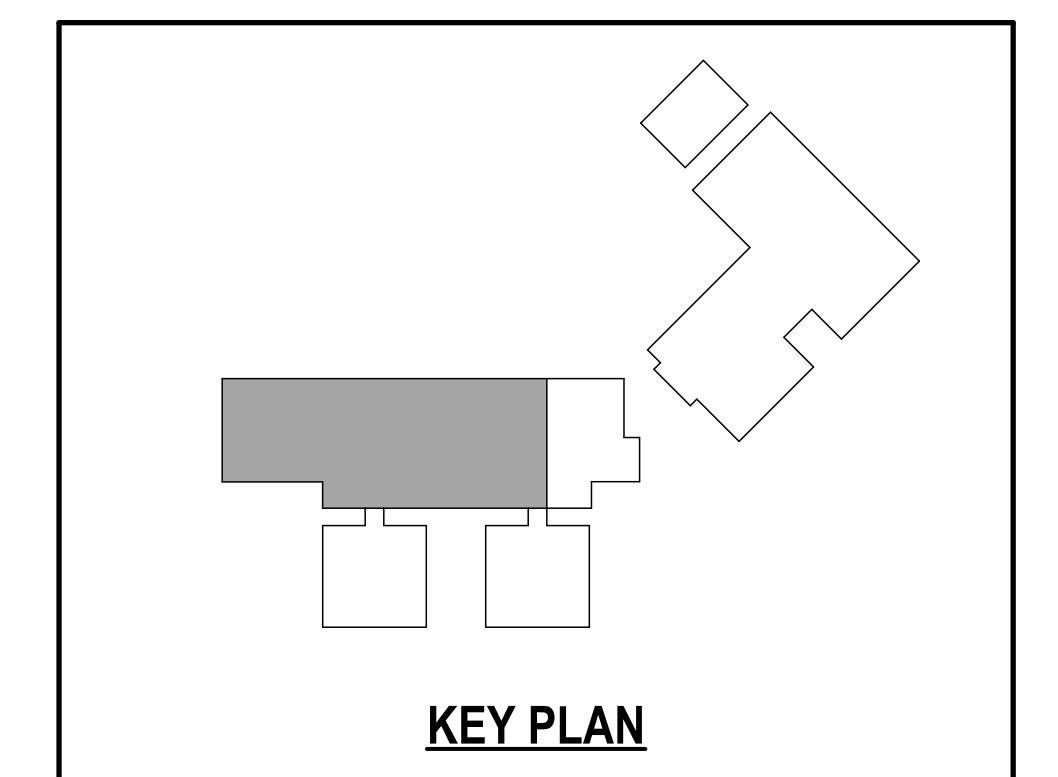
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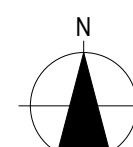
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1 FLOOR PLAN
SCALE: 1/8" = 1'-0"



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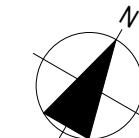
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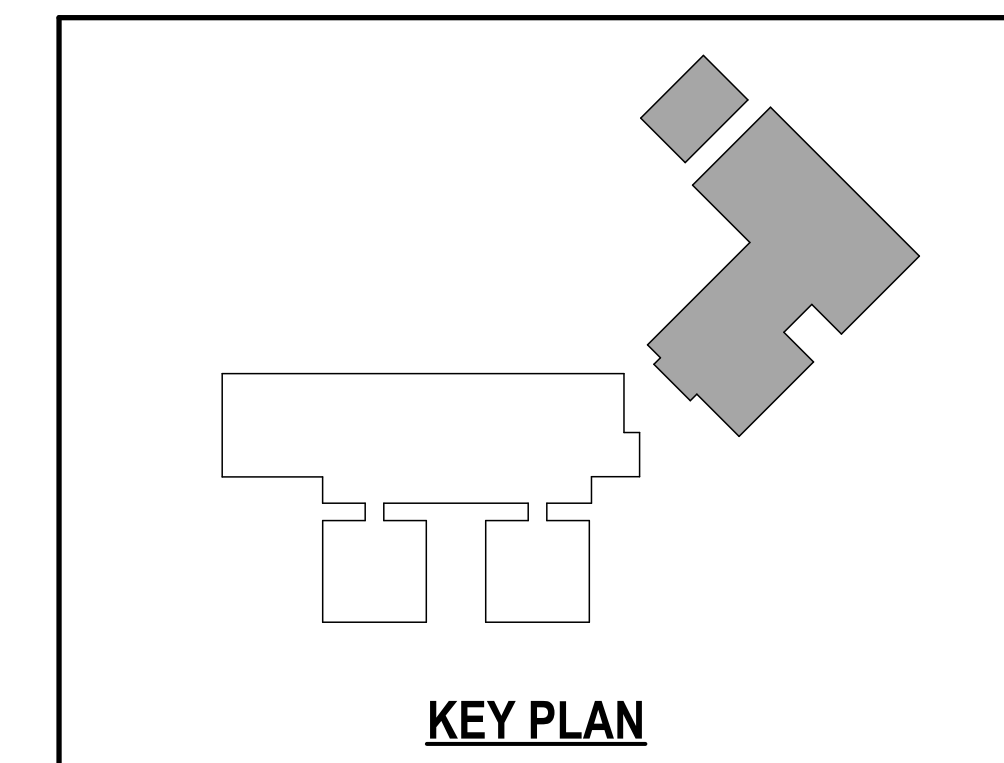
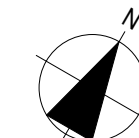
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2 FLOOR PLAN
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1 FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

MIDDLE SCHOOL ACCESS DOORS PLAN

A2.08

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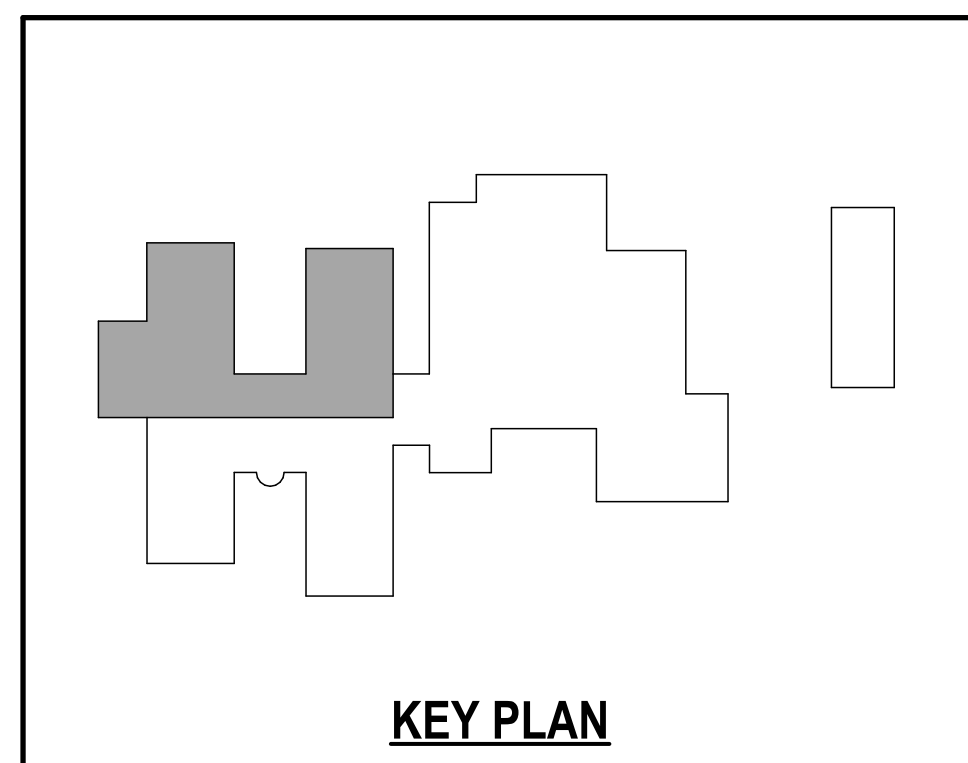
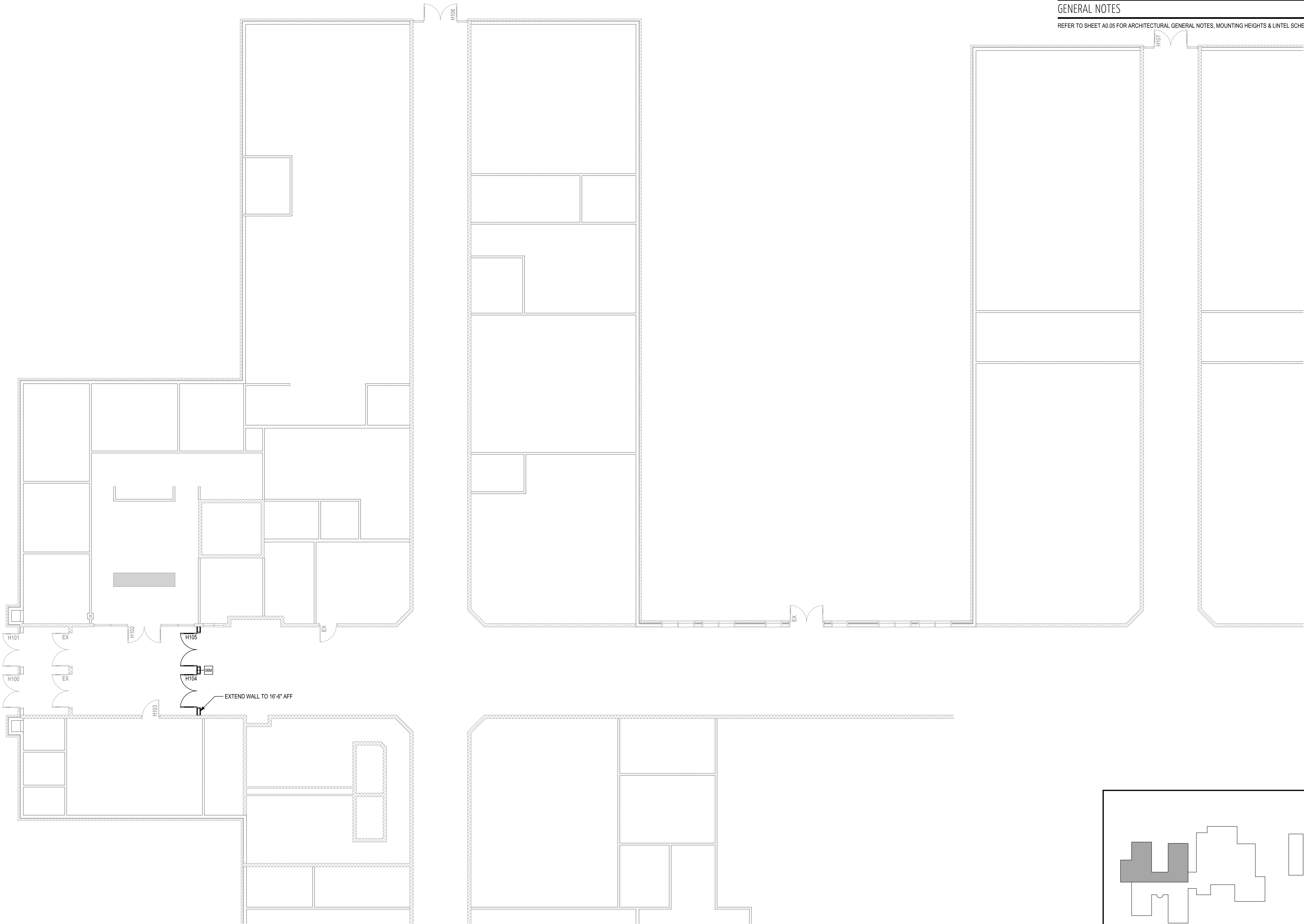
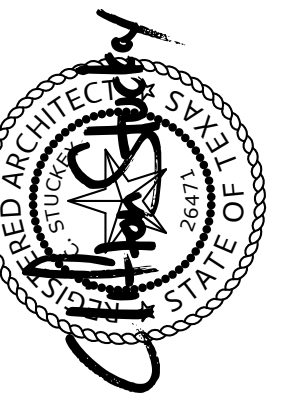
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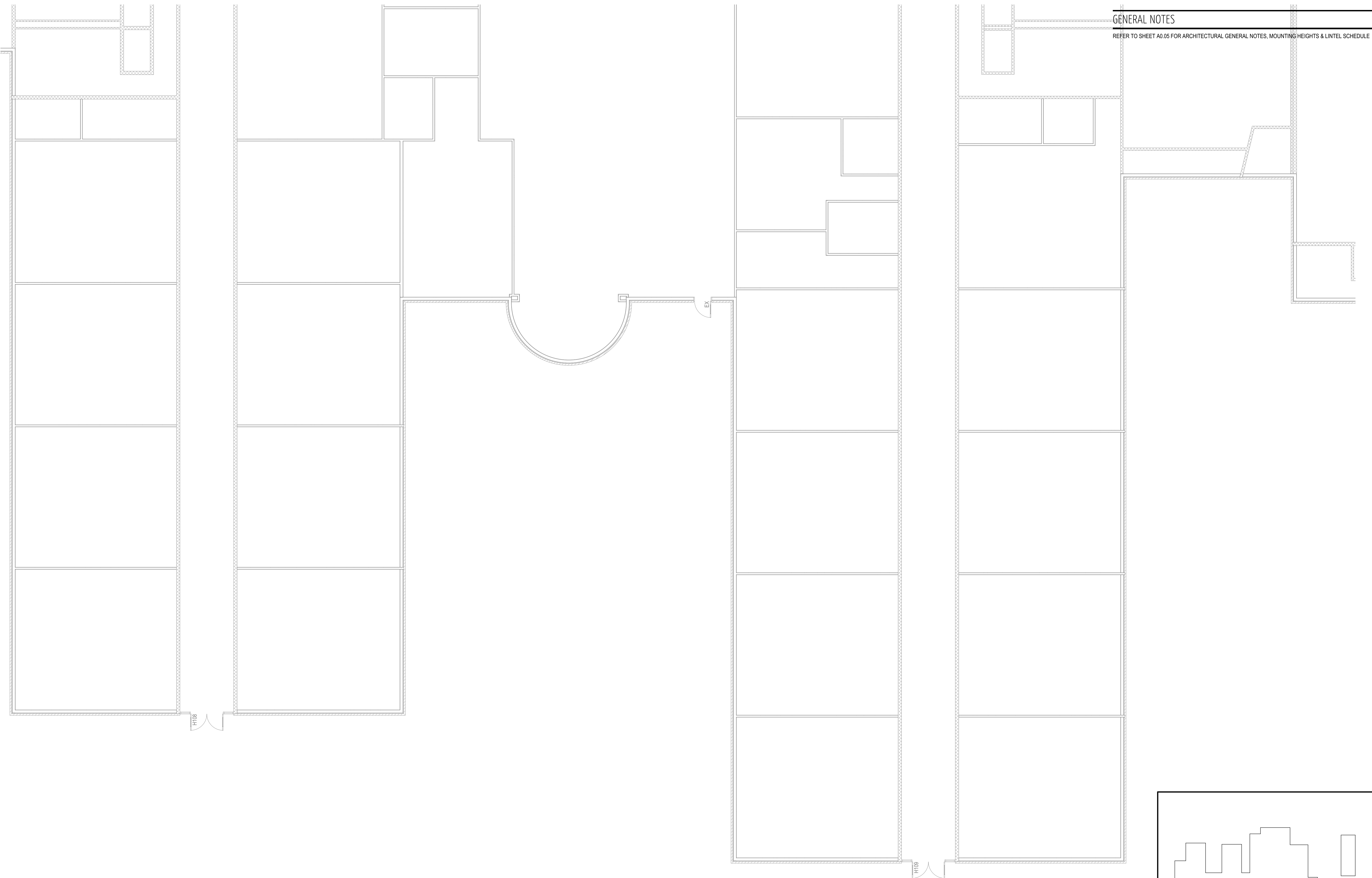
1 FLOOR PLAN
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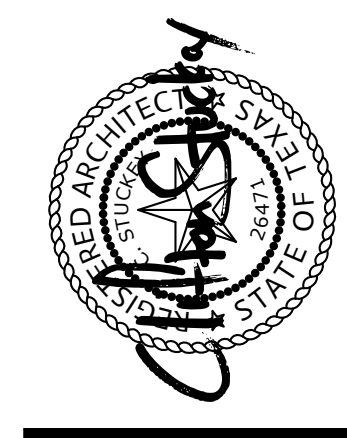
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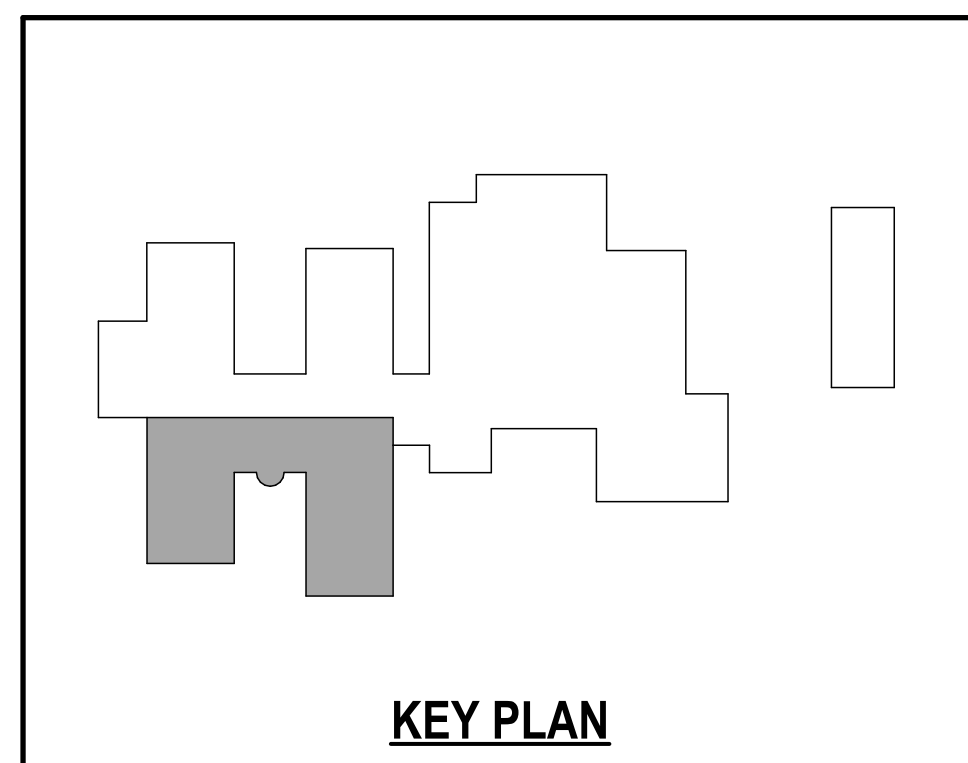
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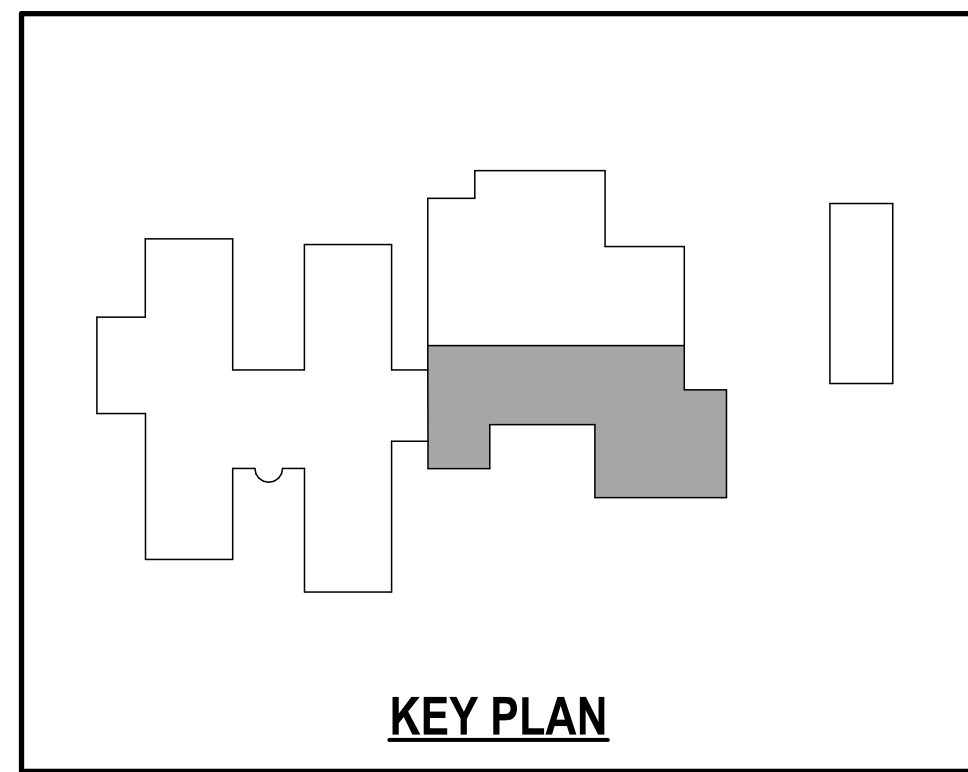
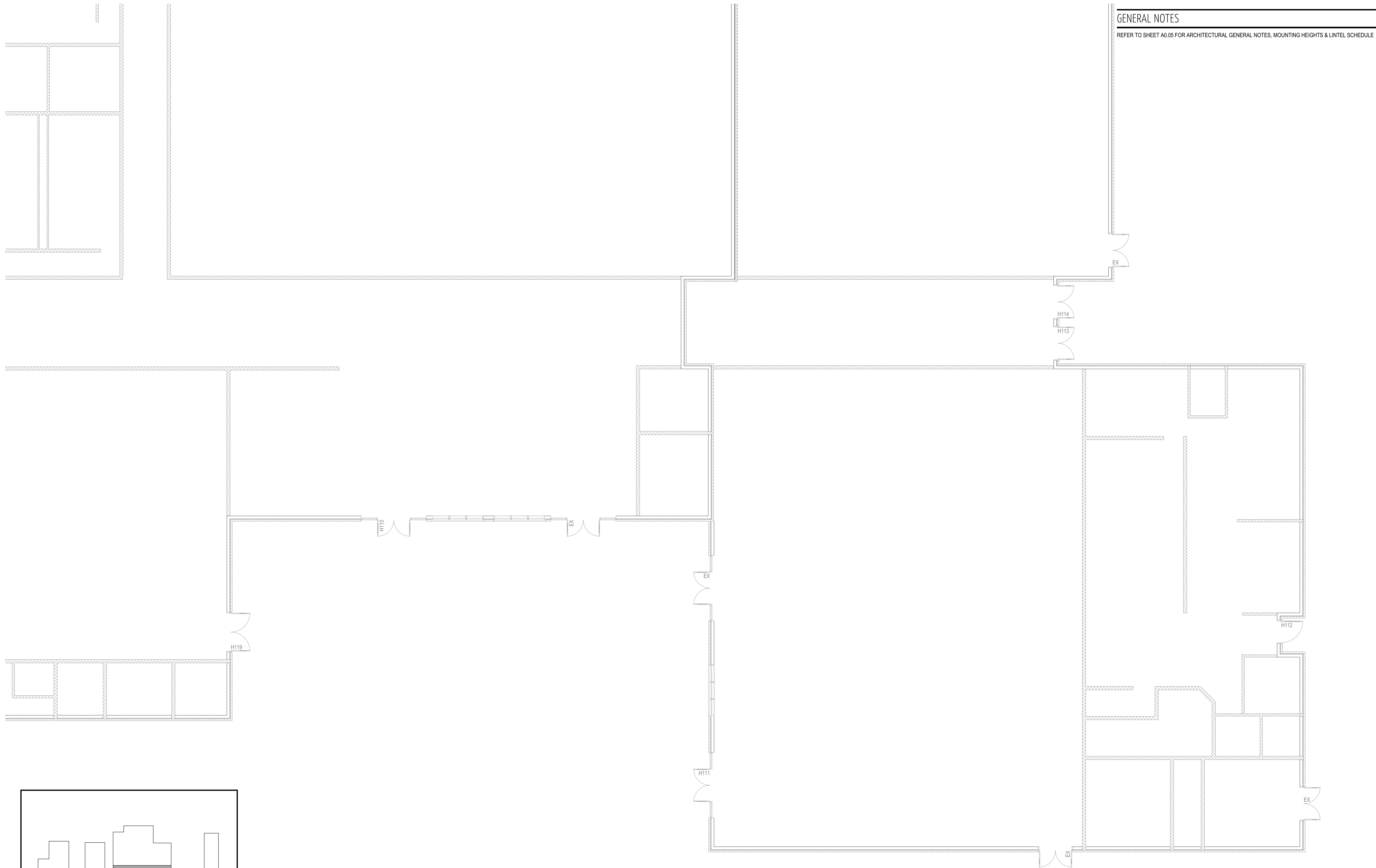
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1 FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 N

HIGH SCHOOL ACCESS DOORS PLAN A2.10

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

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HIGH SCHOOL ACCESS DOORS PLAN A2.11

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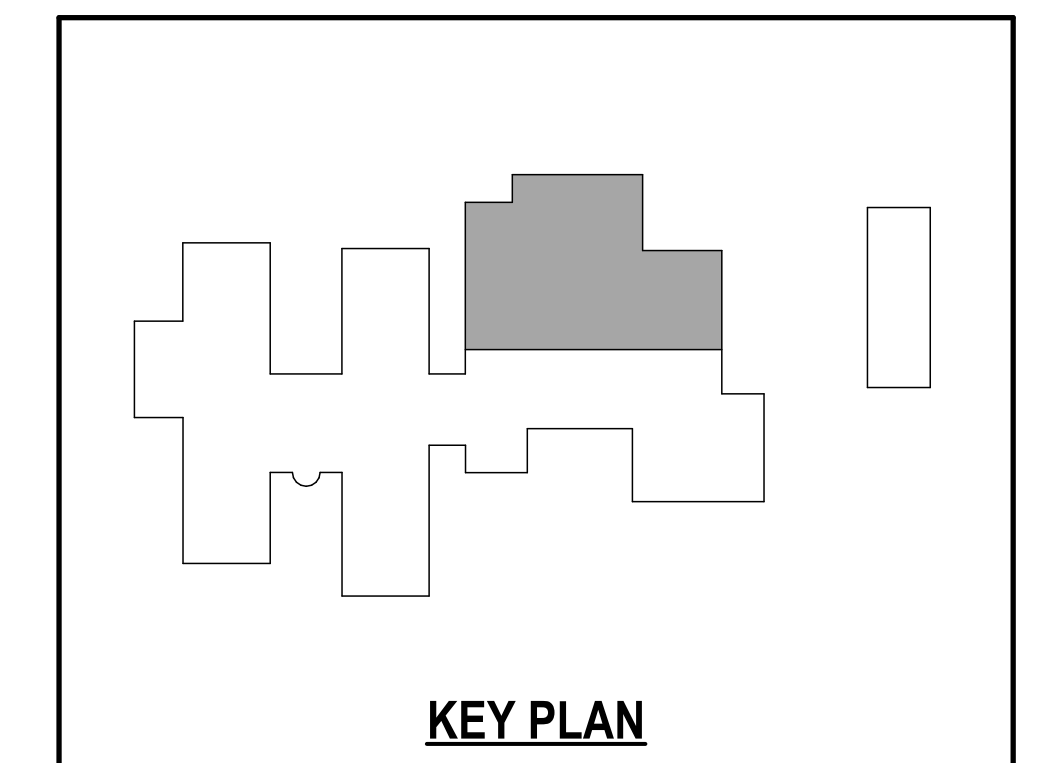
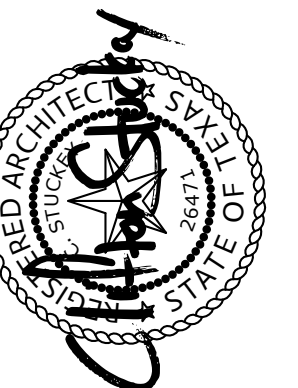
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KEY PLAN

1 FLOOR PLAN
SCALE: 1/8" = 1'-0"
N

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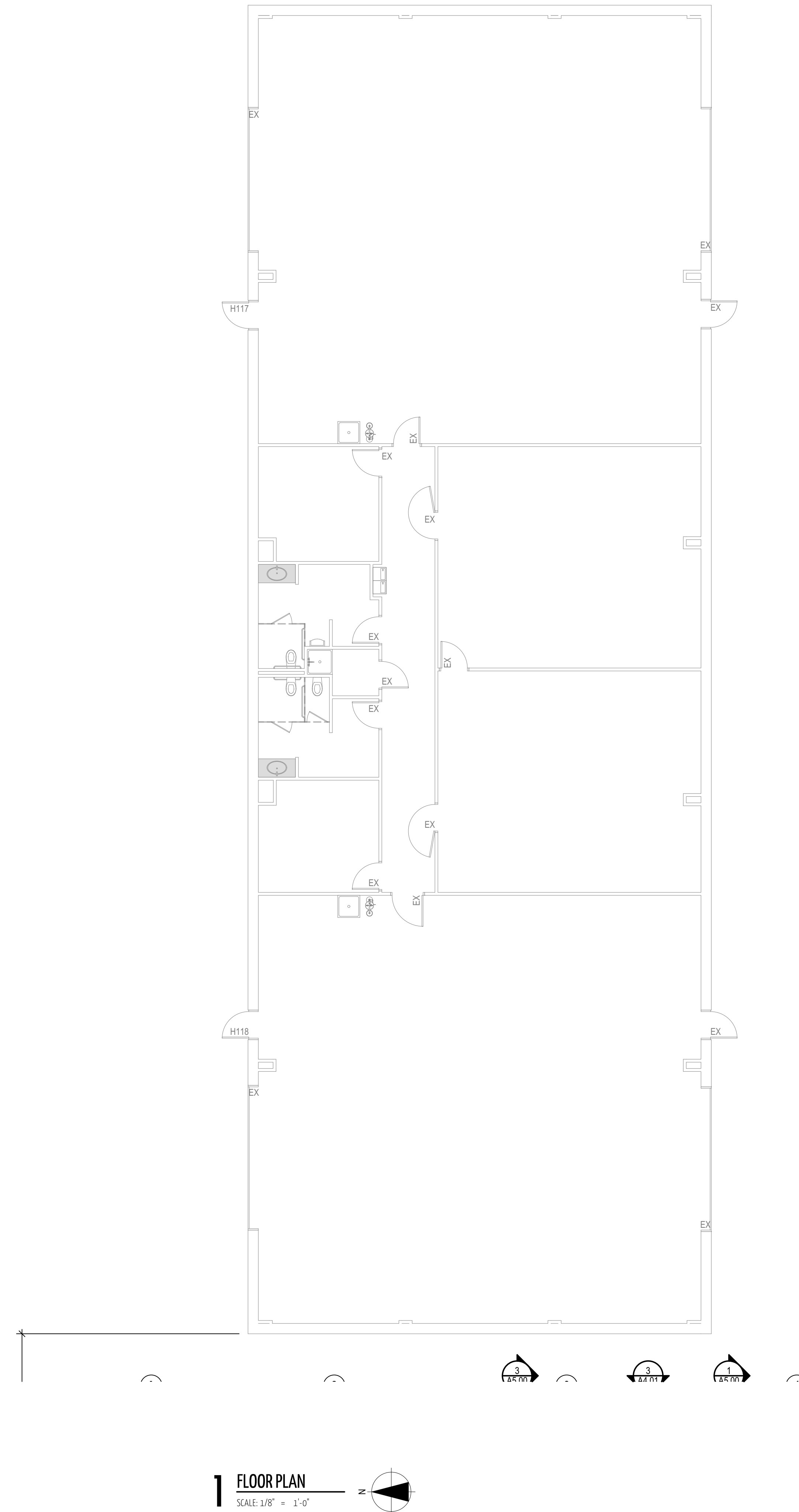
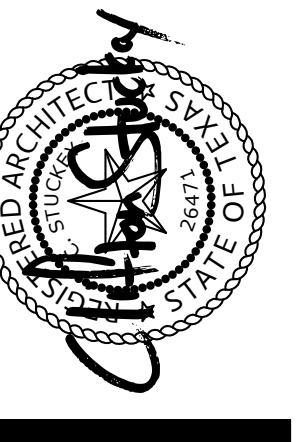
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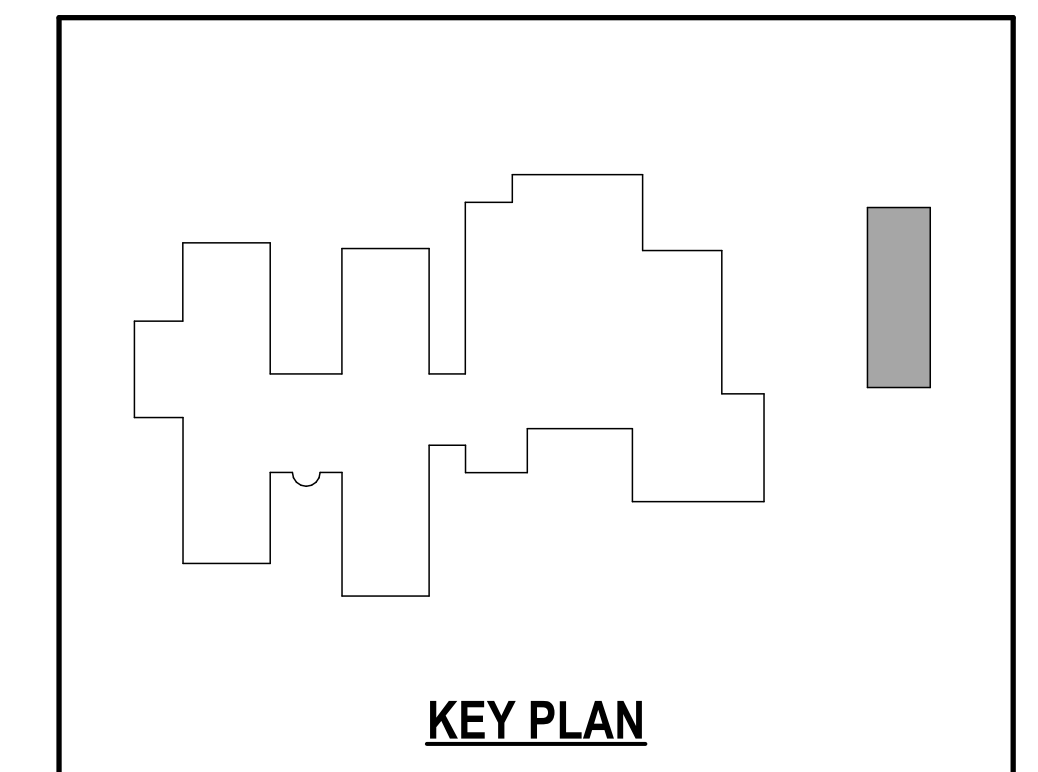
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FLOOR PLAN
SCALE: 1/8" = 1'-0"



HIGH SCHOOL ACCESS DOORS PLAN

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A2.13

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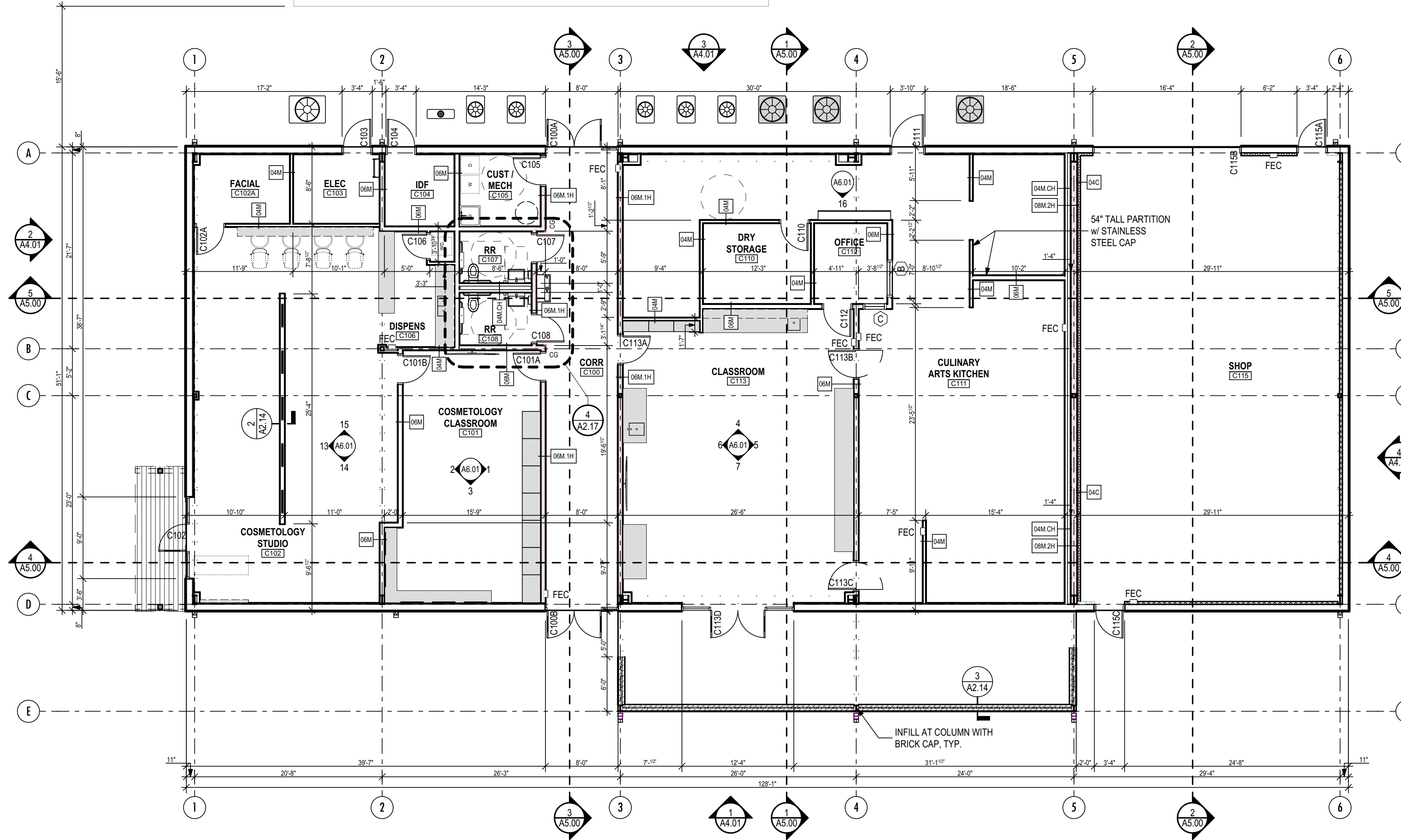
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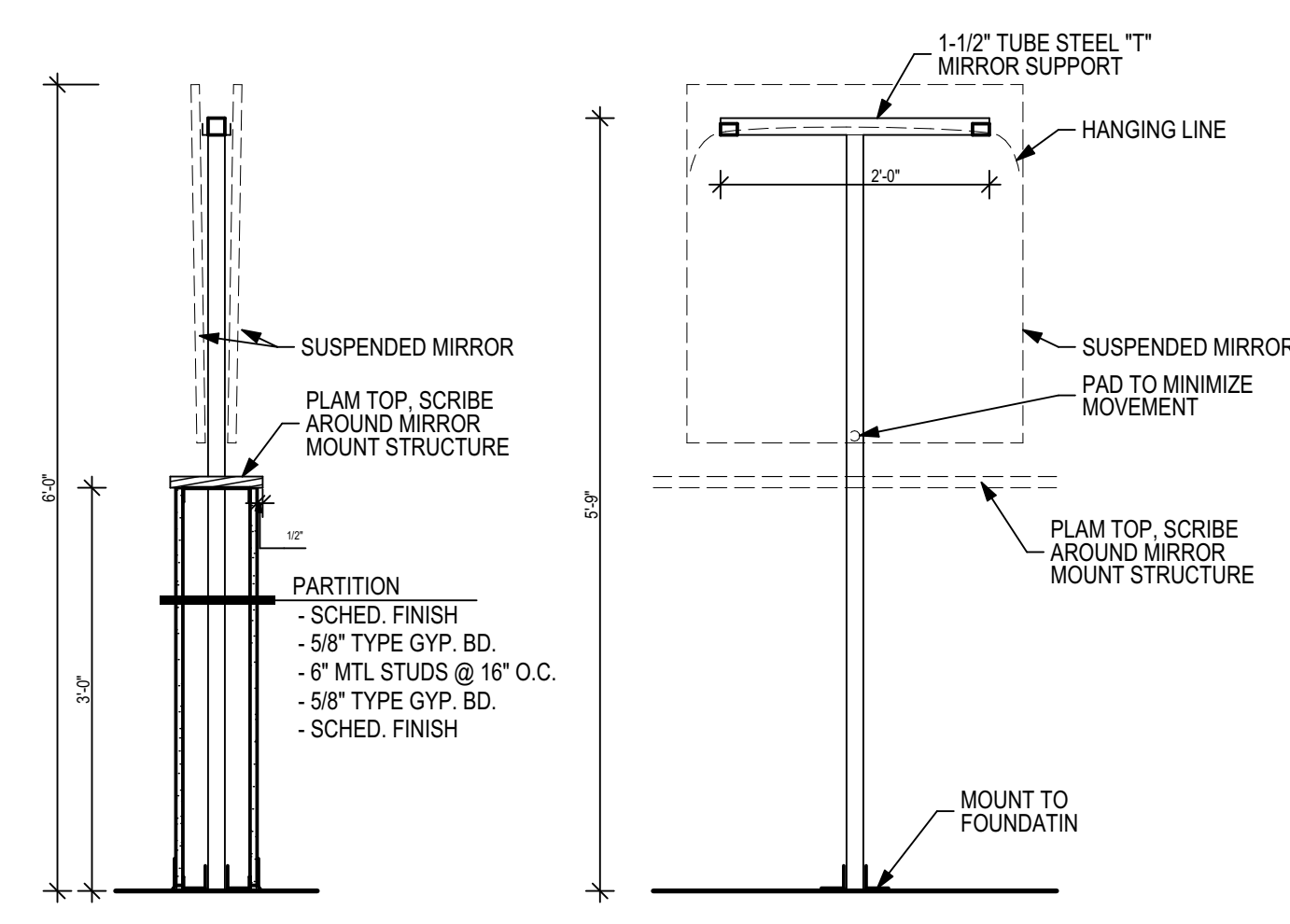
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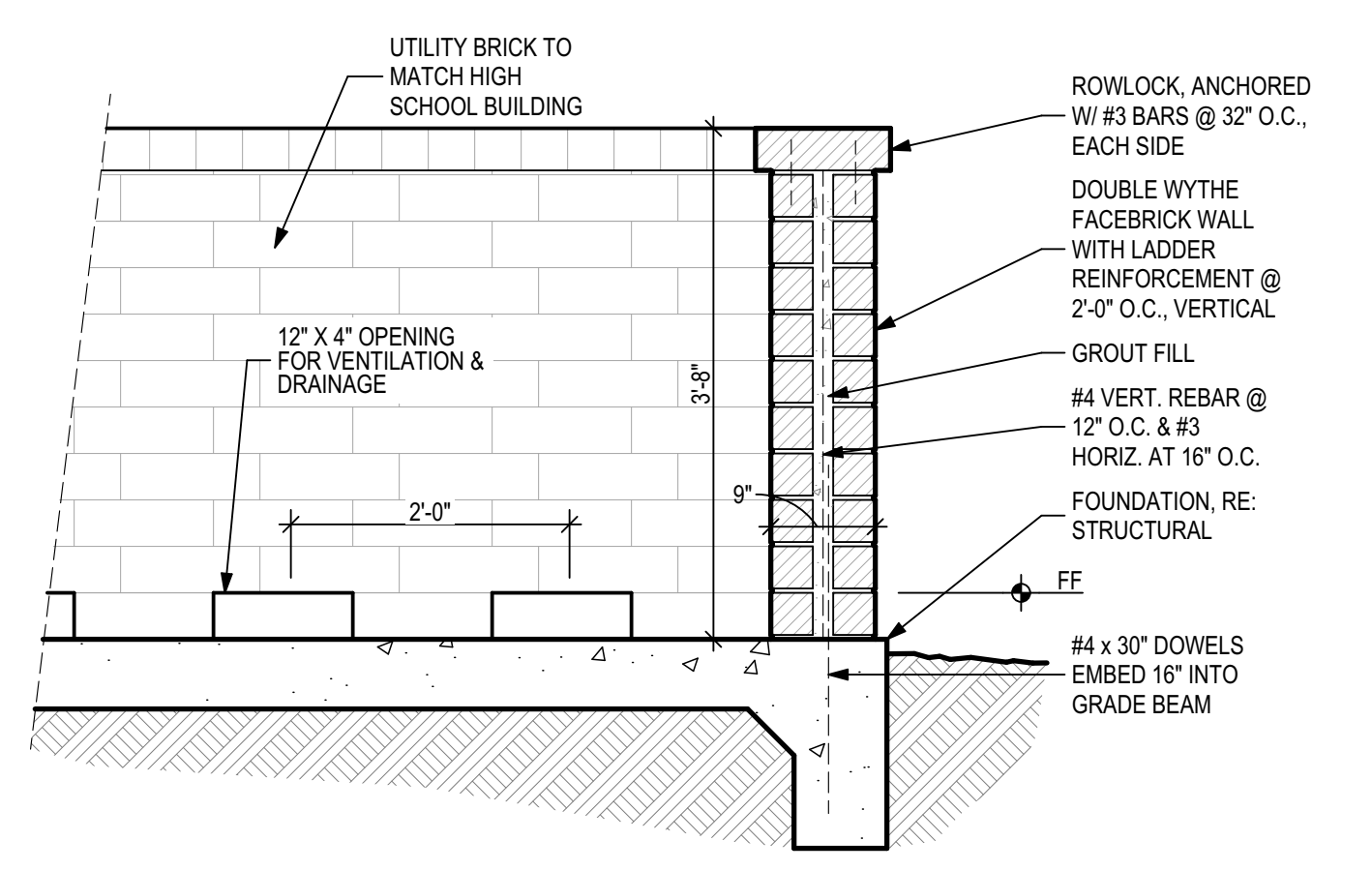
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1 FLOOR PLAN
 SCALE: 1/8" = 1'-0"



2 COSMETOLOGY HALF-WALL SECTION
 SCALE: 3/4\"/>



3 PATIOSCREEN WALL
 SCALE: 3/4\"/>

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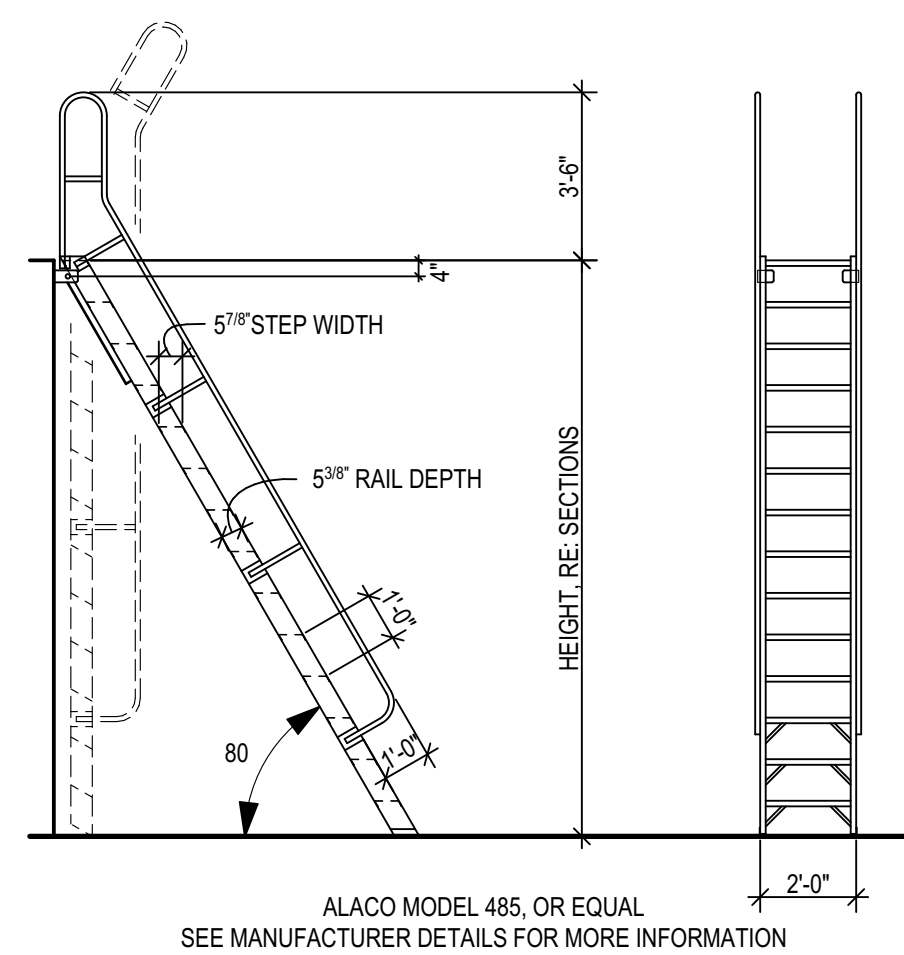
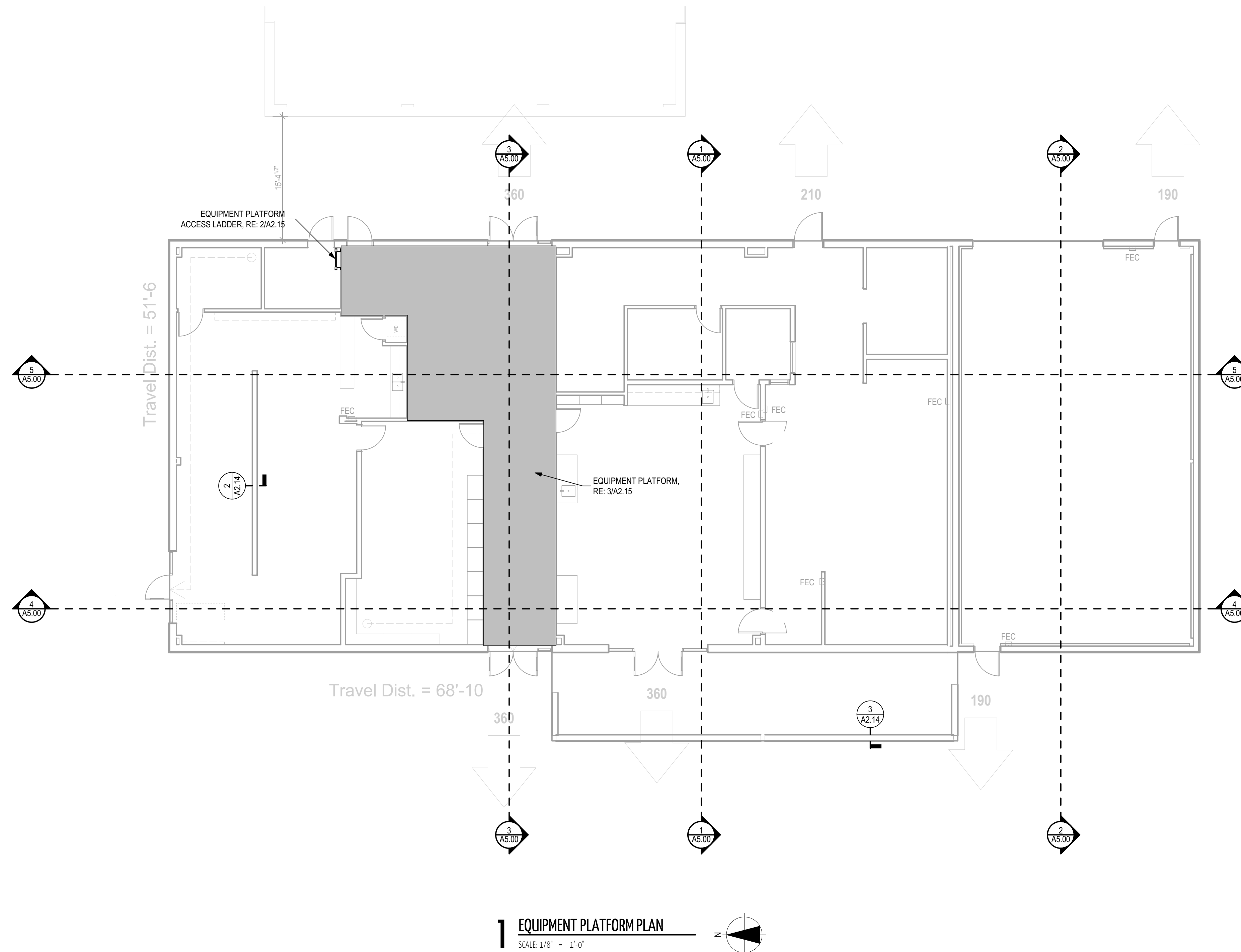
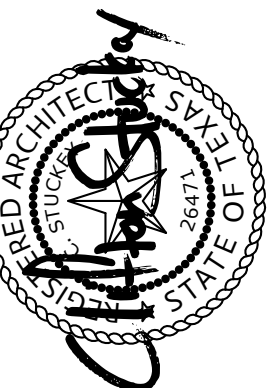
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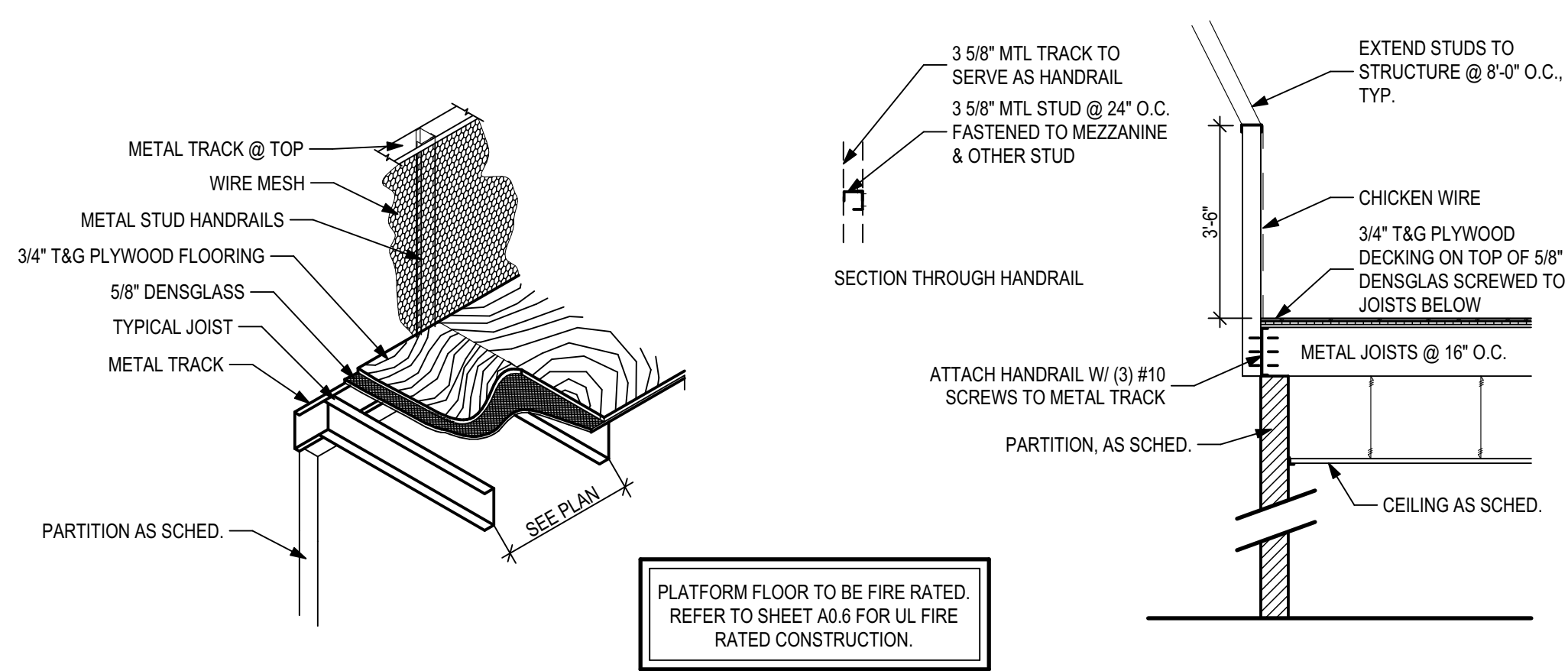
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2 EQUIPMENT PLATFORM ACCESS LADDER, FOLDING
 SCALE: 1/4" = 1'-0"



3 EQUIPMENT PLATFORM DETAIL
 SCALE: 3/8" = 1'-0"

GENERAL NOTES

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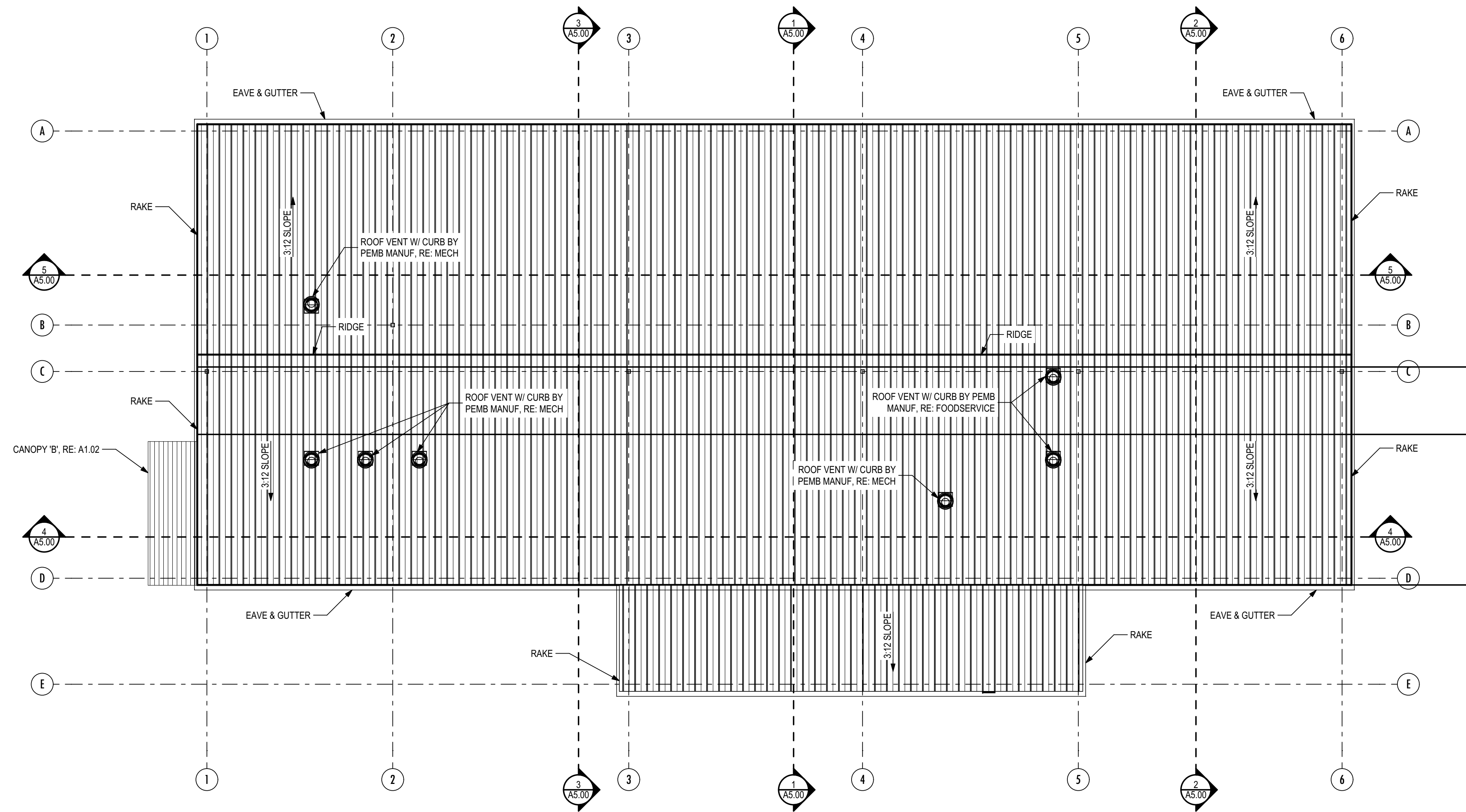
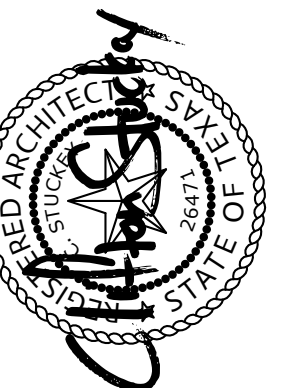
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1 ROOF PLAN
 SCALE: 1/8" = 1'-0"

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NOTE: POSSIBLE LAYOUT OF OWNER PROVIDED FURNITURE AND EQUIPMENT SHOWN IN DASHED LINES FOR REFERENCE ONLY.

GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE

ABBREVIATIONS

- TP TOILET PAPER DISPENSER
- GB GRAB BARS, RE: 12/A7.07
- HD HAND DRYERS
- PT PAPER TOWERL DISPENSER
- SD SOAP DISPENSER
- EWC ELECTRIC WATER COOLER
- FEC FIRE EXTINGUISHER CABINET
- SN SANITARY NAPKIN DISPENSER

KEYED NOTES

- RESTROOMS:**
- (R1) SOLID PLASTIC URINAL SCREENS
 - (R2) LAVATORY
 - (R3) SOLID PLASTIC OVERHEAD-BRACED TOILET PARTITIONS
 - (R4) DOUBLE COAT HOOK
 - (R5) FRAMED MIRROR, RE: 7/A7.07



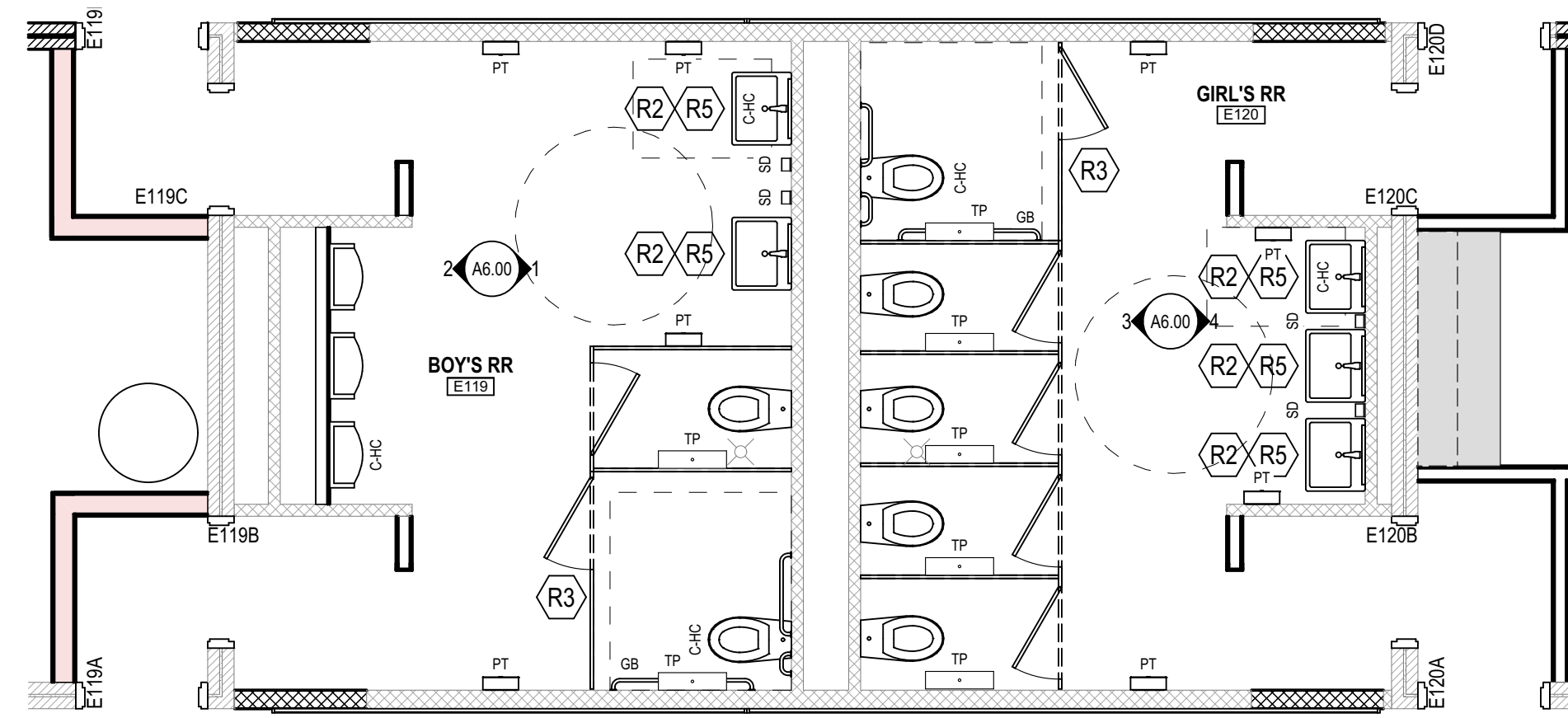
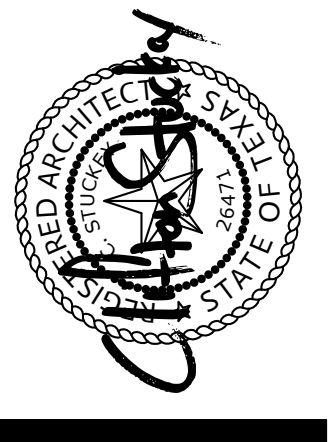
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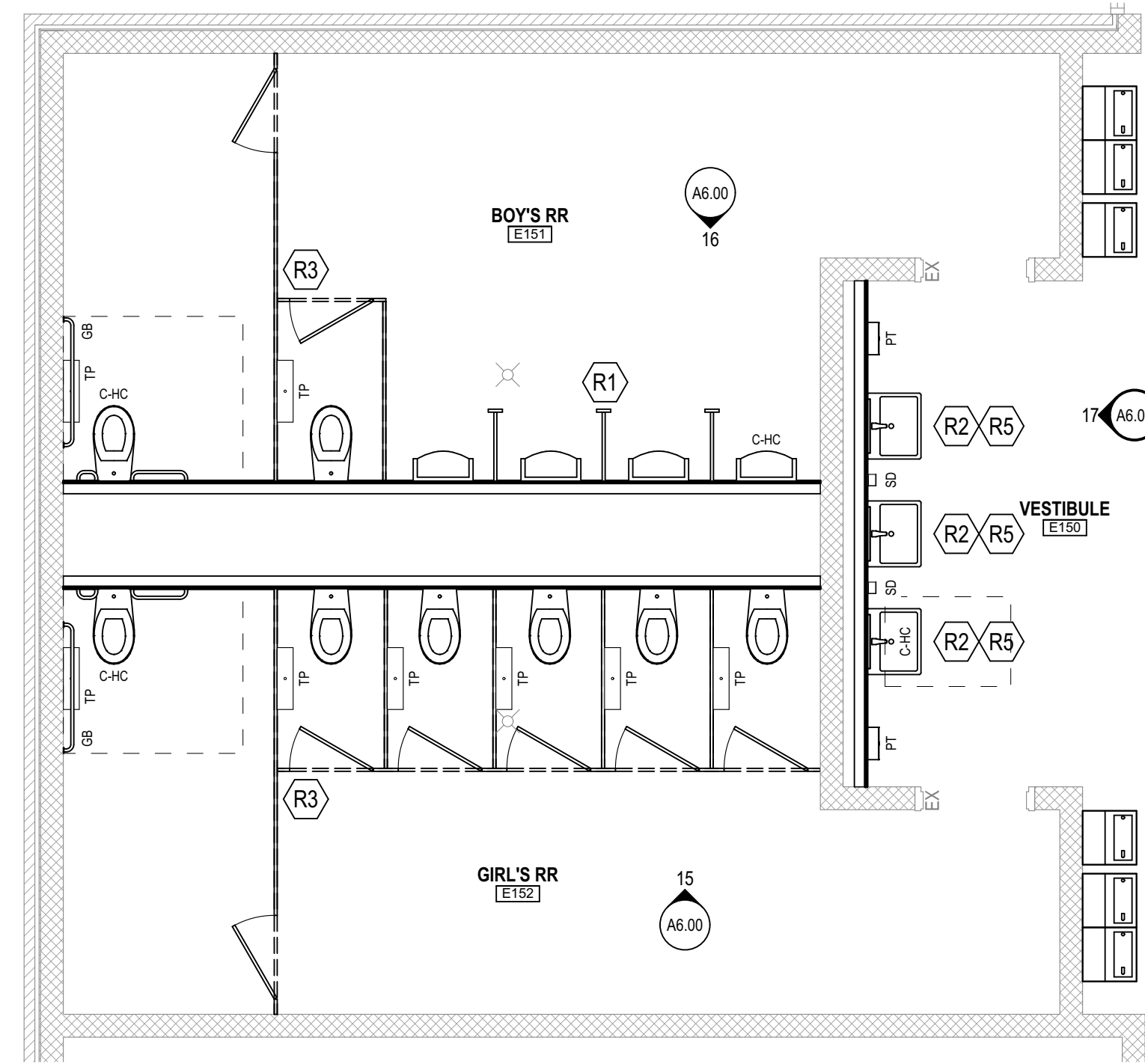
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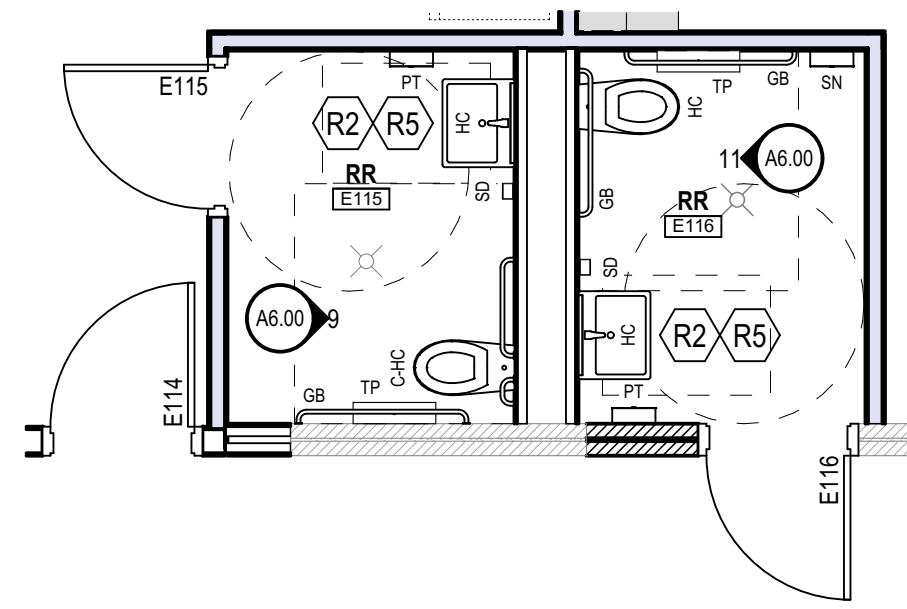
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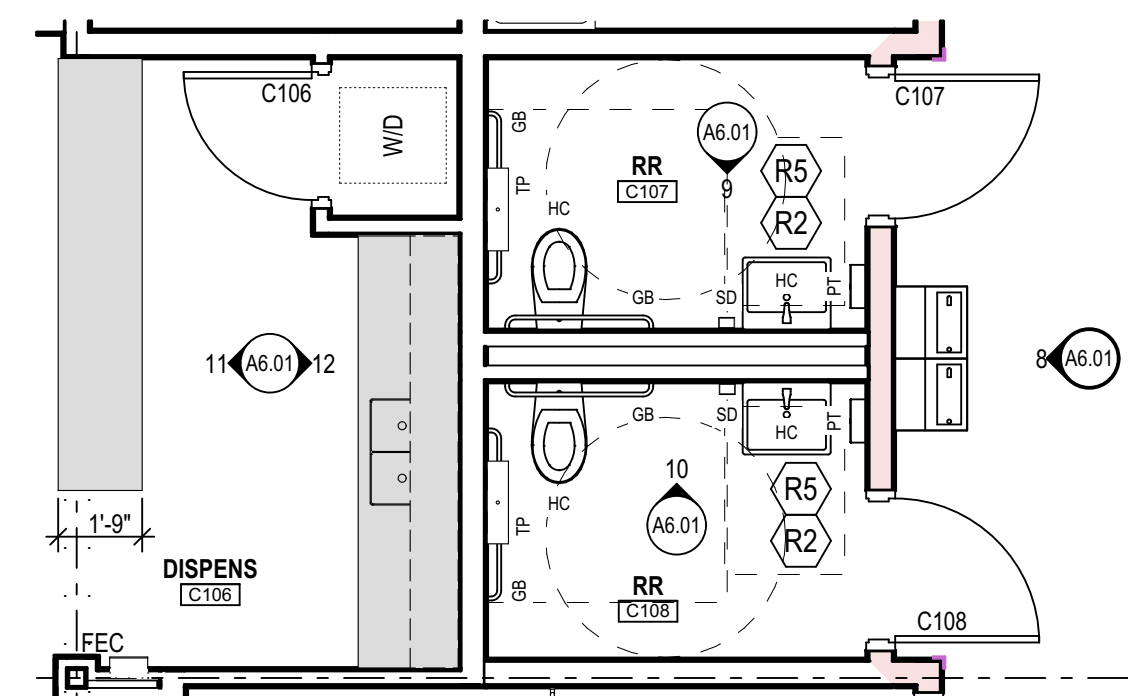
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 SCALE: 1/4" = 1'-0"



2 ELEMENTARY RESTROOMS ENLARGED PLAN
 SCALE: 1/4" = 1'-0"



3 ELEMENTARY RESTROOMS ENLARGED PLAN
 SCALE: 1/4" = 1'-0"



4 CAREER CENTER DISPENSORY & RESTROOMS ENLARGED PLAN
 SCALE: 1/4" = 1'-0"

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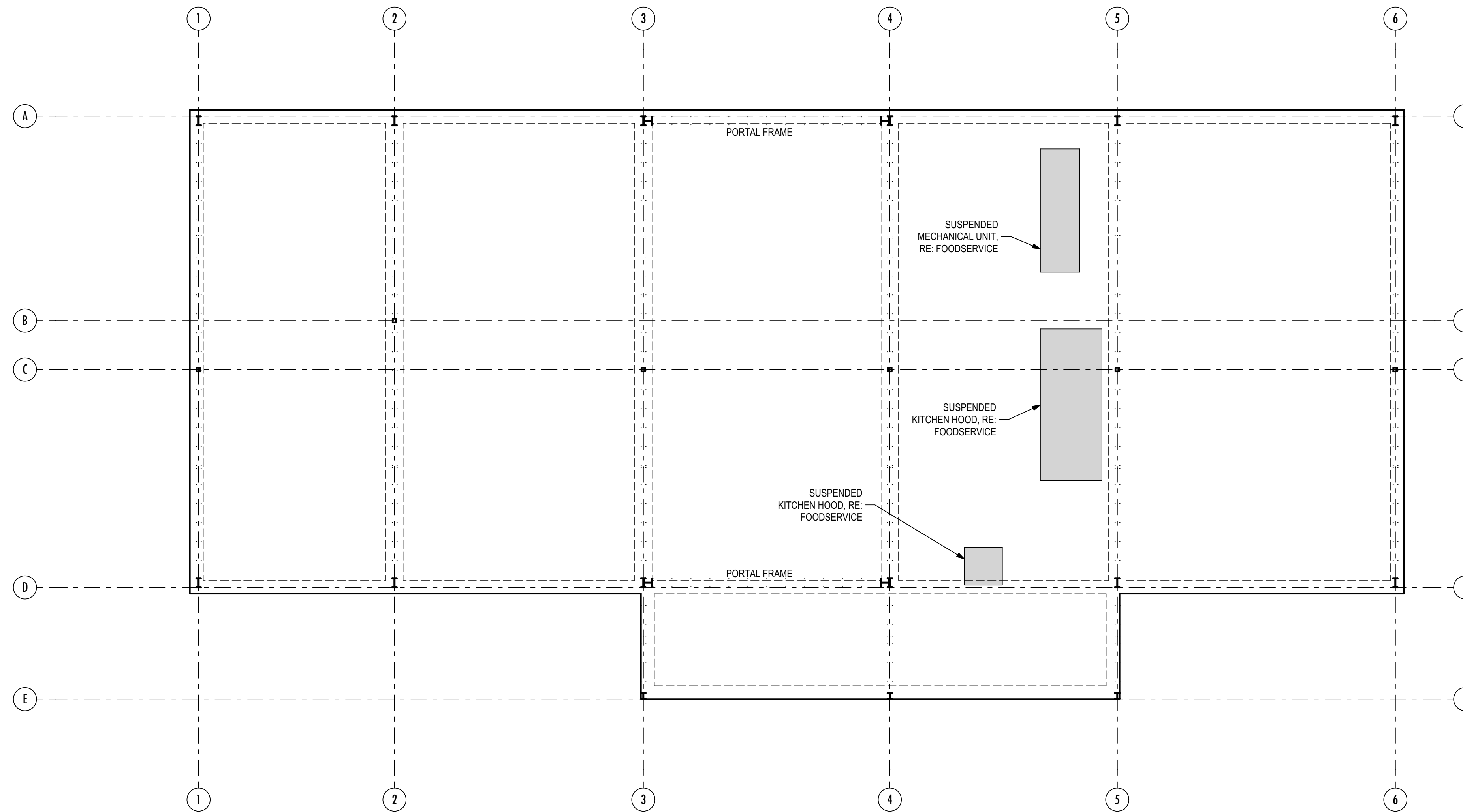
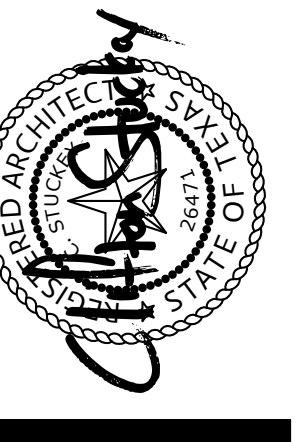
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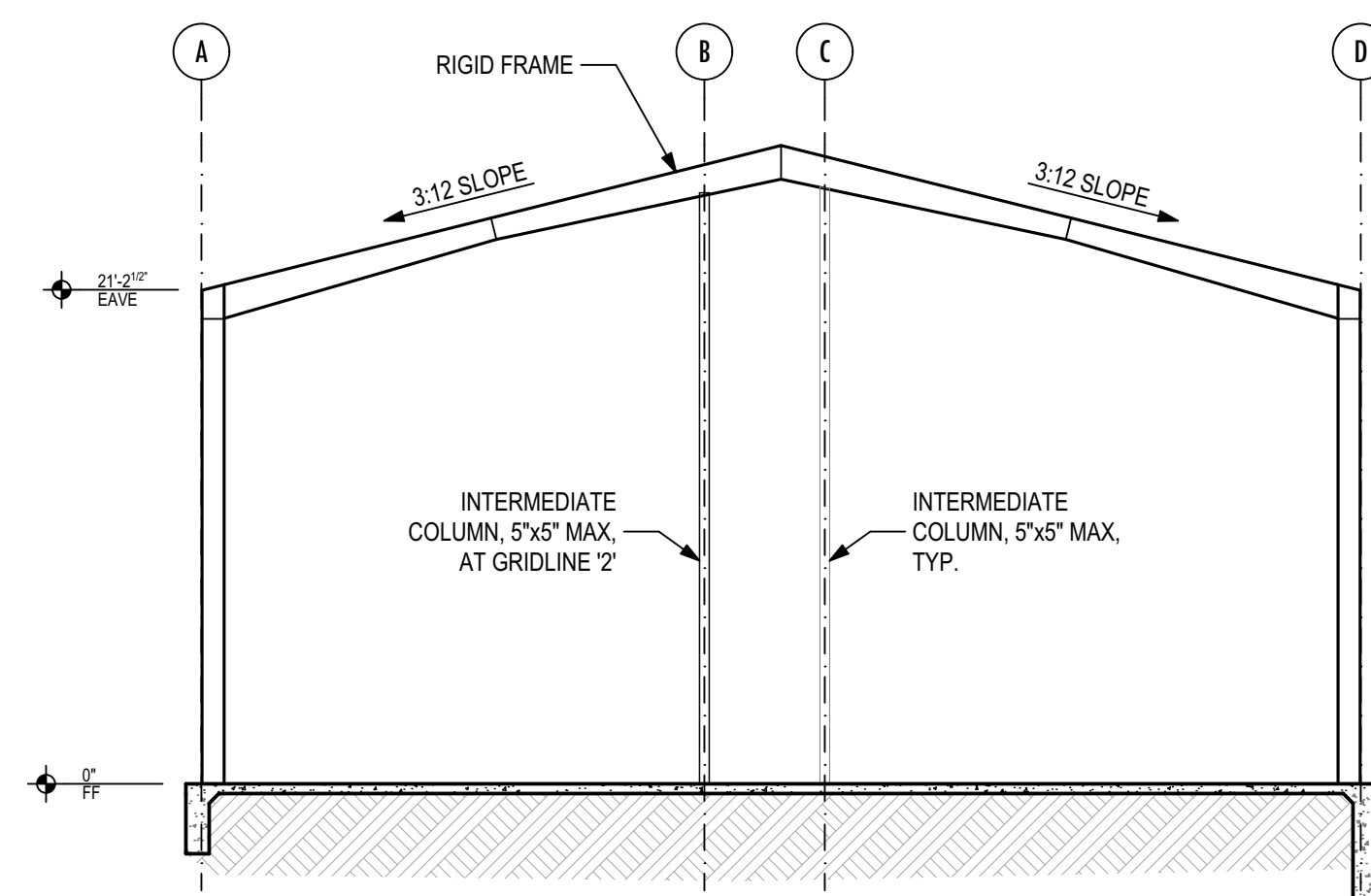
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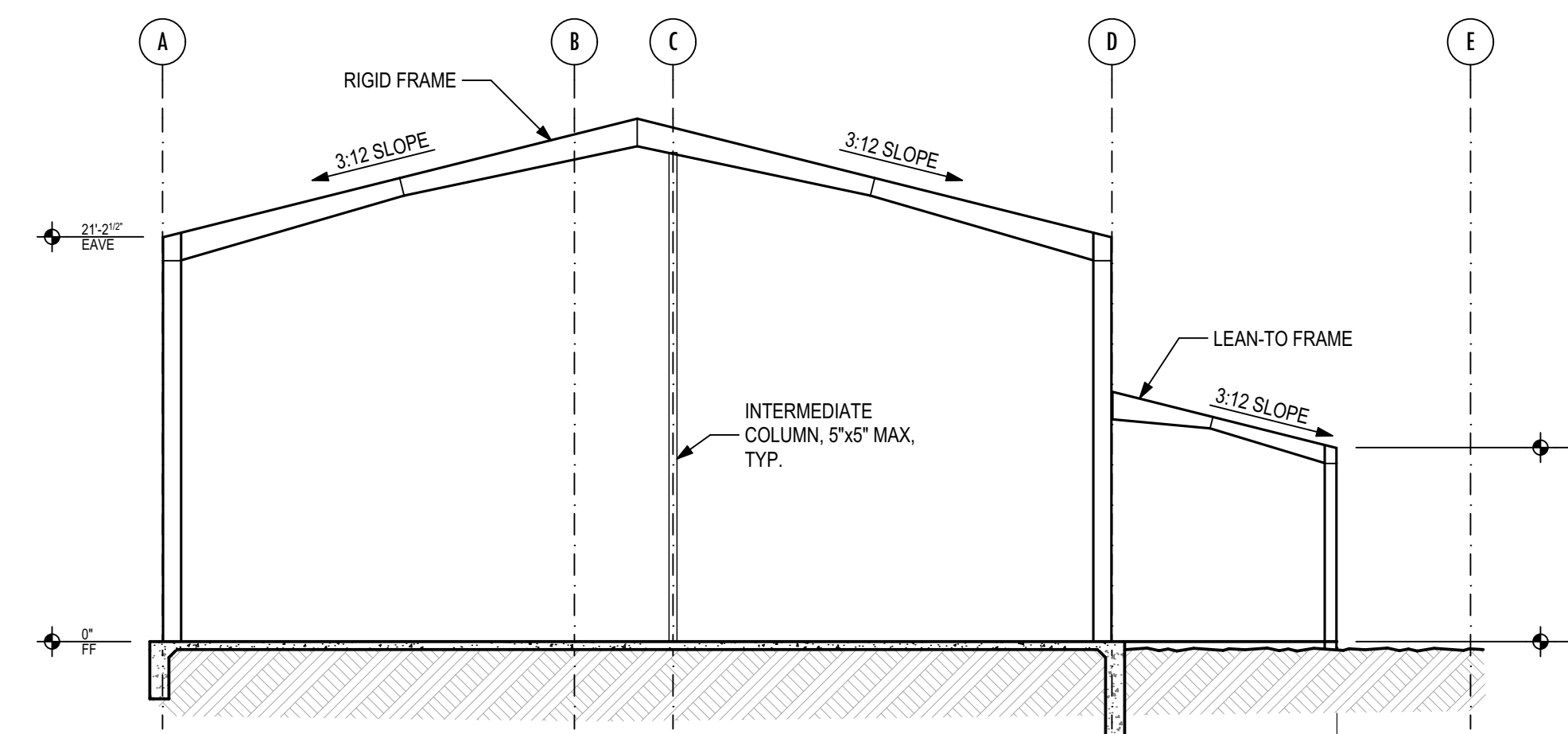
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1 FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"



2 CAREER CENTER RIGID FRAME, TYP.
 SCALE: 1/8" = 1'-0"



3 CAREER CENTER RIGID FRAME, GRID 3, 4 & 5
 SCALE: 1/8" = 1'-0"

CAREER CENTER RIGID FRAME PLAN & DIAGRAMS

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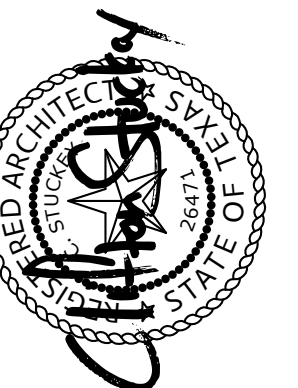
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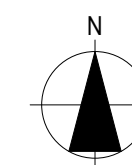
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1 REFLECTED CEILING PLAN DEMO
SCALE: 1/8" = 1'-0"



RCP DEMOLITION KEYED NOTES

- OC1 DEMO ACOUSTIC TILE CEILING
- OC2 DEMO GYP CEILING / BULKHEAD
- OC3 DEMO LIGHTS

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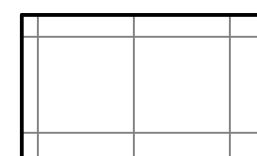
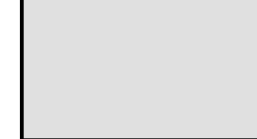
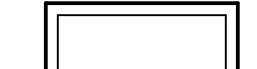
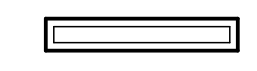

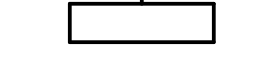

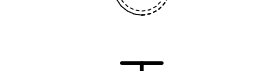




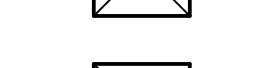
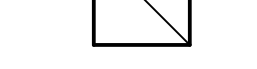
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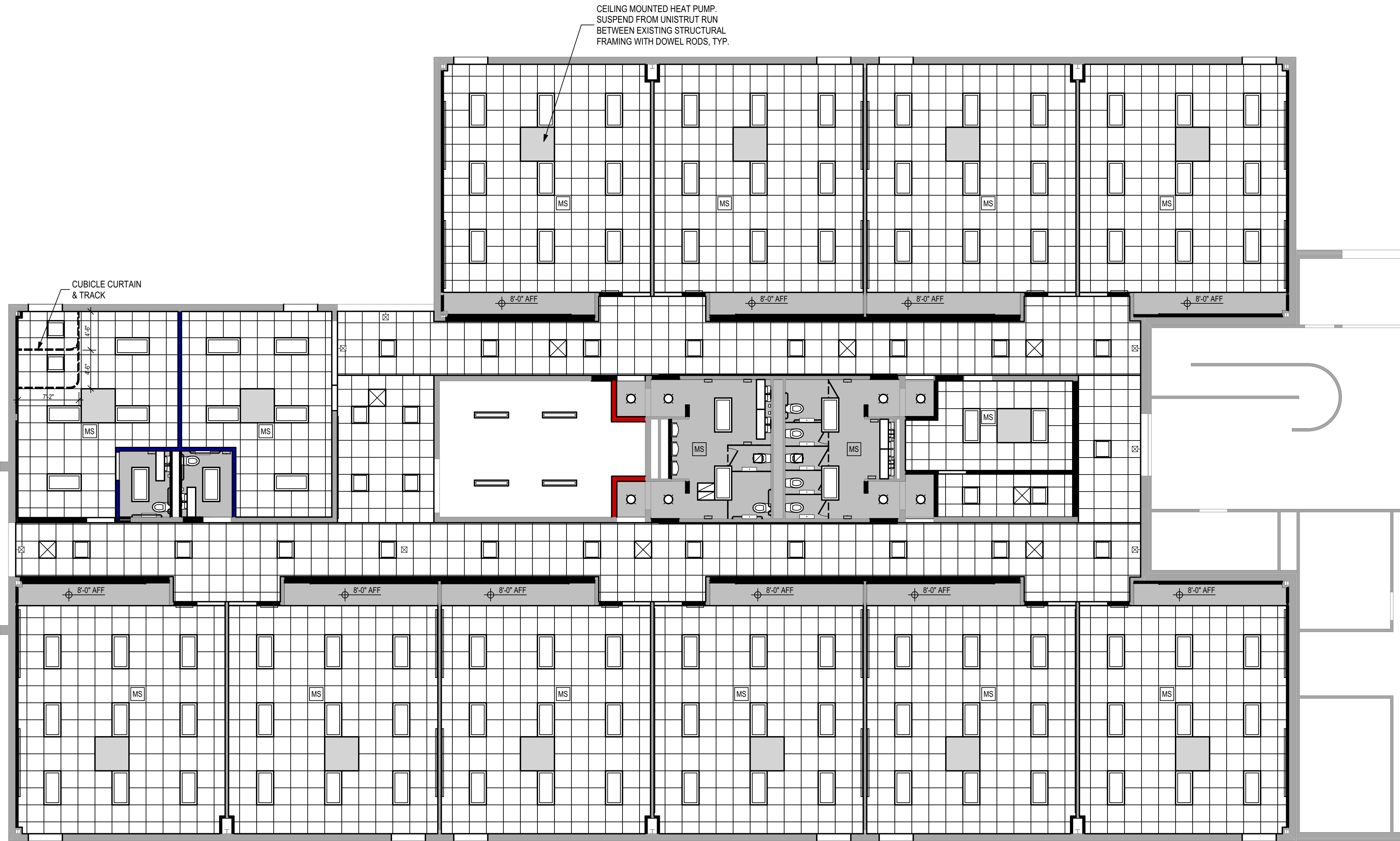
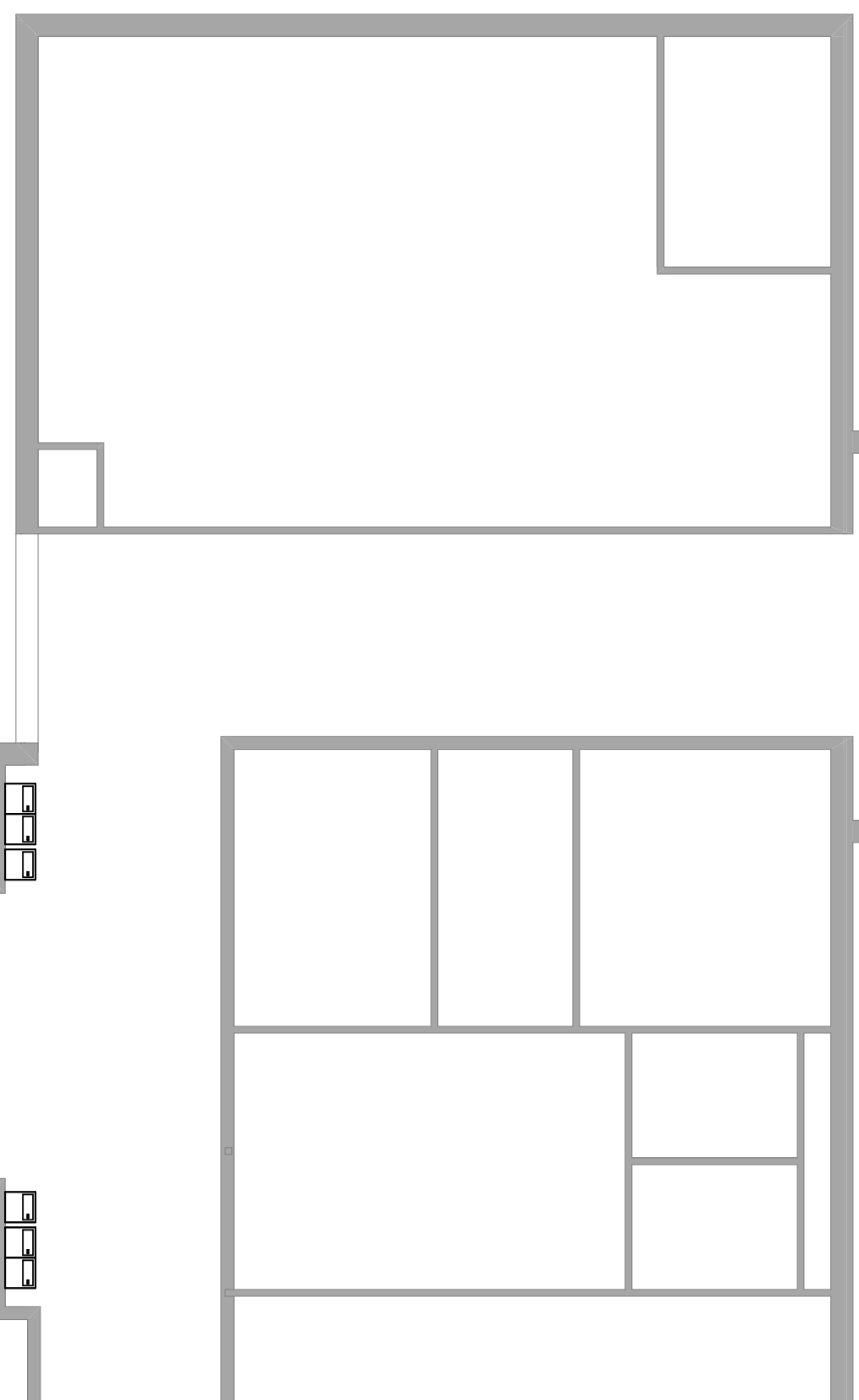
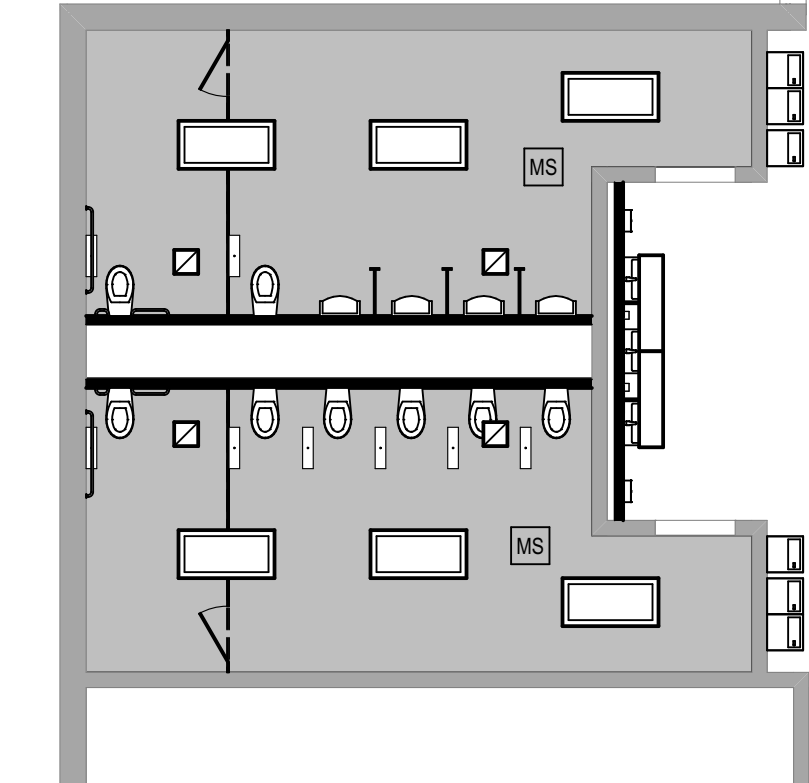
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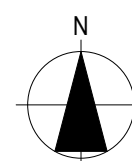
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RCP SYMBOL LEGEND

-  SUSPENDED ACOUSTIC CEILING TILE (2X2)
-  GYPSUM BOARD CEILING
-  2X4 LED
-  STRIP LIGHT
-  FINELITE
-  WALL MOUNT LIGHT
-  DOWN LIGHT
-  CANOPY PENDANT LIGHT
-  WALL LIGHT
-  EXIT SIGN
-  WALL MOUNTED EXIT SIGN
-  MOTION SENSOR
-  SUPPLY AIR
-  RETURN AIR



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



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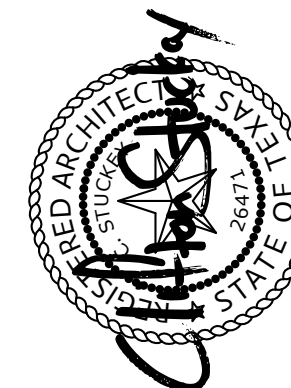
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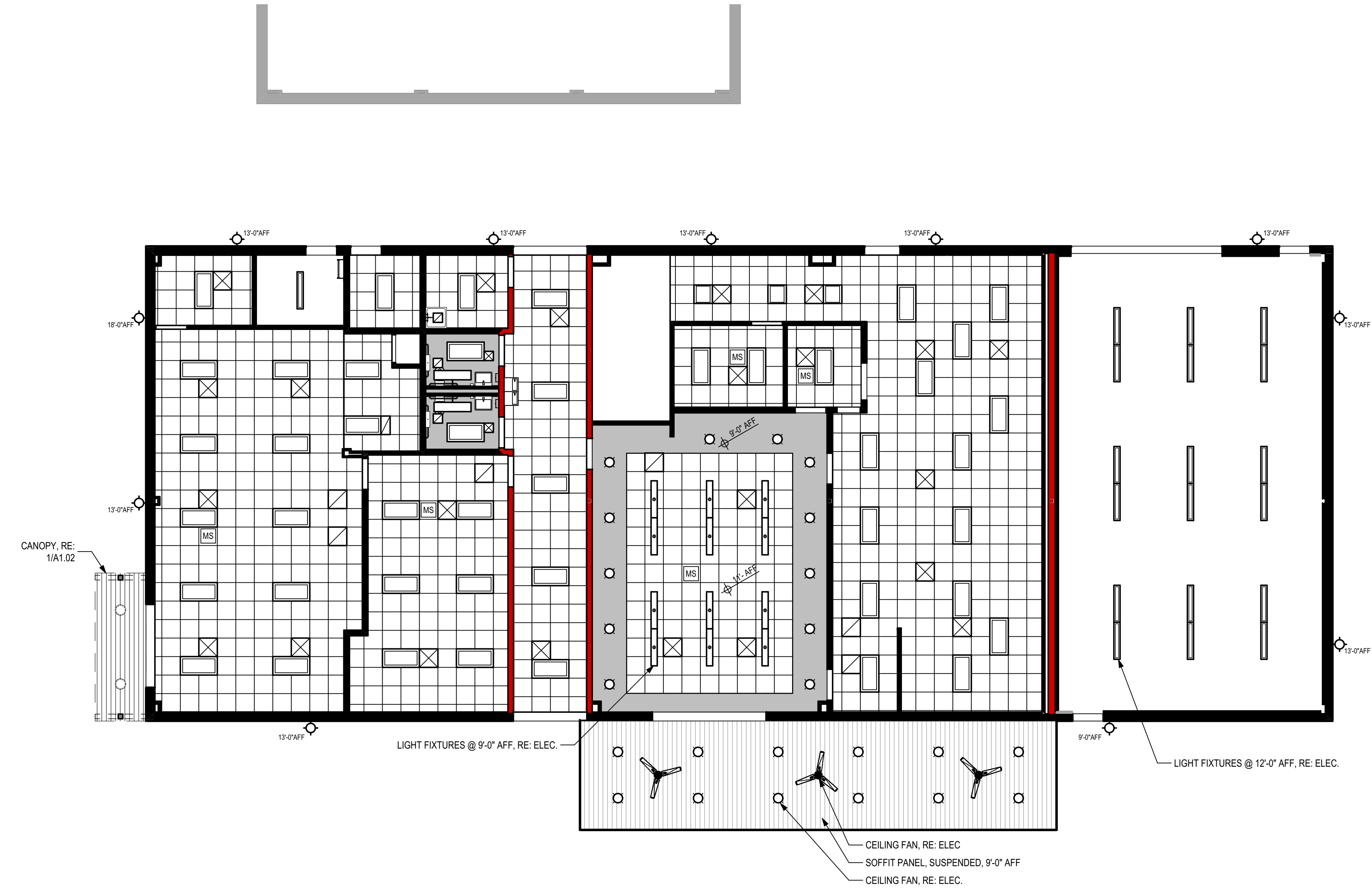
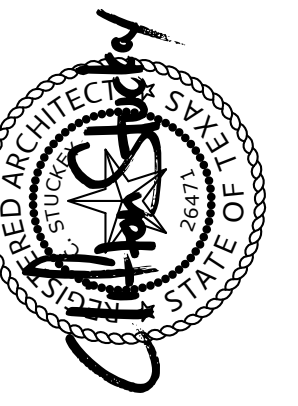
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 melissa@counihanassoc.com



RCP SYMBOL LEGEND

- SUSPENDED ACOUSTIC CEILING TILE (2X2)
- GYPSUM BOARD CEILING
- 2X4 LED
- STRIP LIGHT
- FINELITE
- WALL MOUNT LIGHT
- DOWN LIGHT
- CANOPY PENDANT LIGHT
- WALL LIGHT
- EXIT SIGN
- WALL MOUNTED EXIT SIGN
- MOTION SENSOR
- SUPPLY AIR
- RETURN AIR

2 REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

Brady Independent School District
BOND 2018 PROJECTS
 Brady, Texas
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Date:	4/4/2019
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GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE



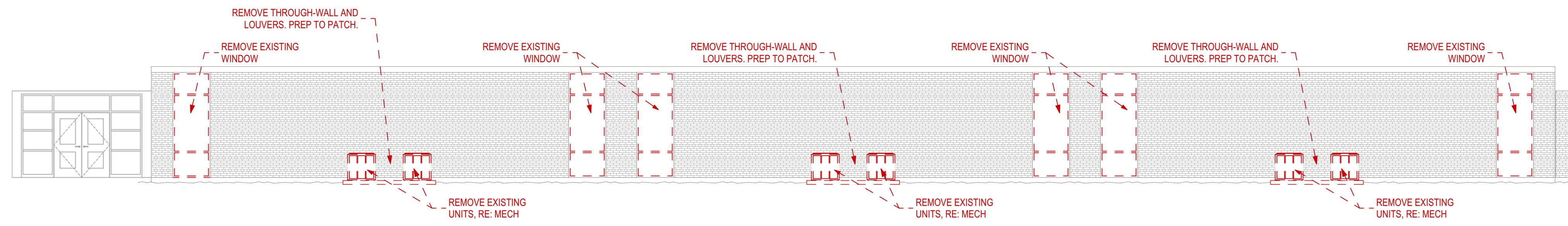
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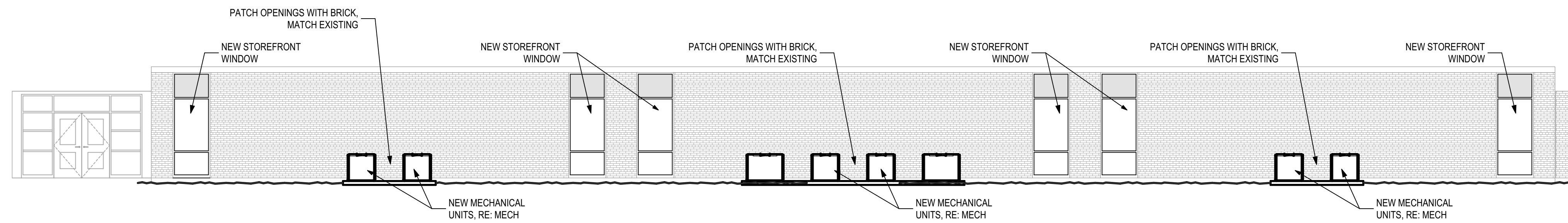
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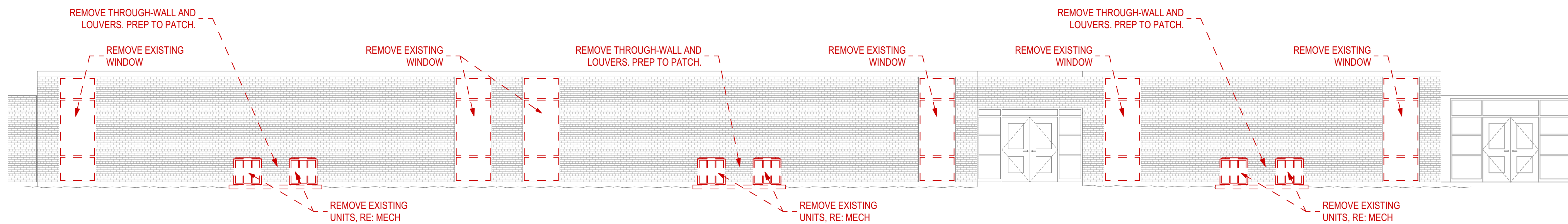
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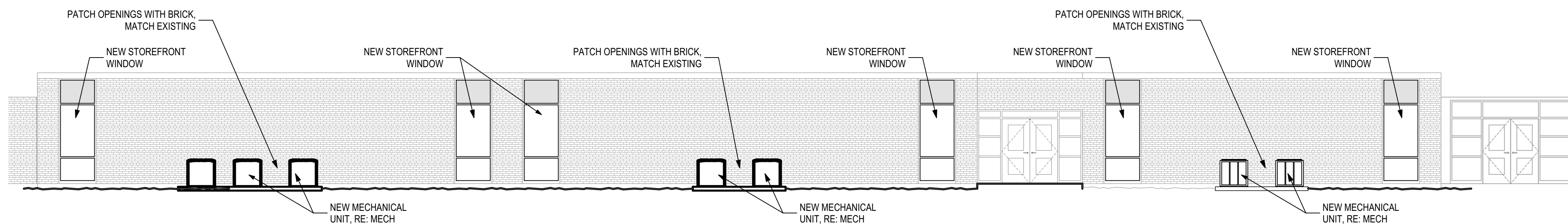
1 ELEMENTARY SOUTH DEMO ELEVATION
SCALE: 1/8" = 1'-0"



2 ELEMENTARY SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



3 ELEMENTARY NORTH DEMO ELEVATION
SCALE: 1/8" = 1'-0"

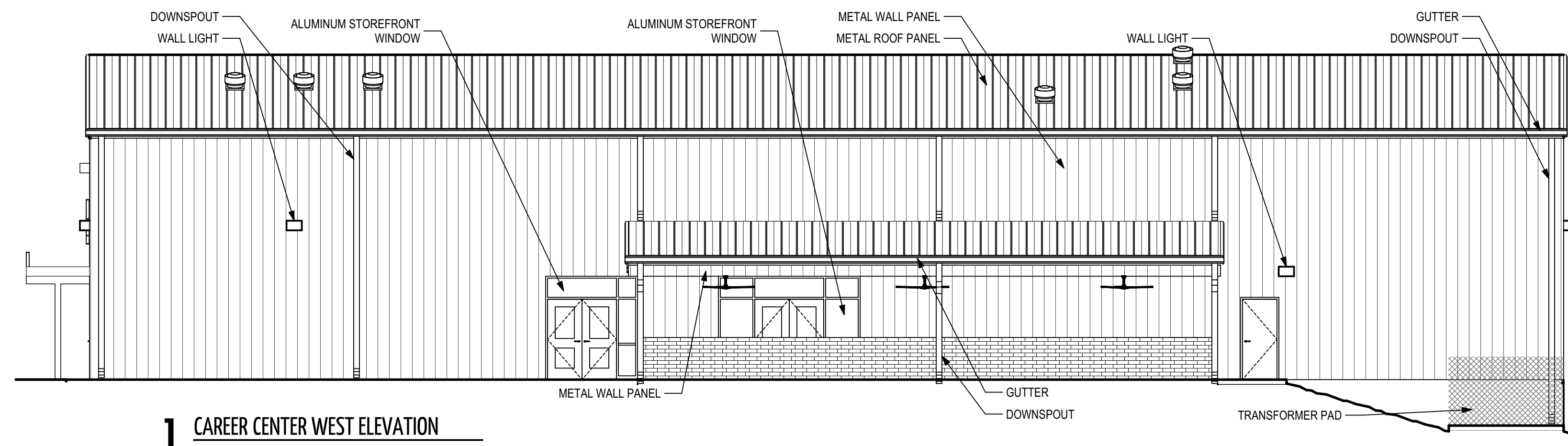


4 ELEMENTARY NORTH ELEVATION
SCALE: 1/8" = 1'-0"

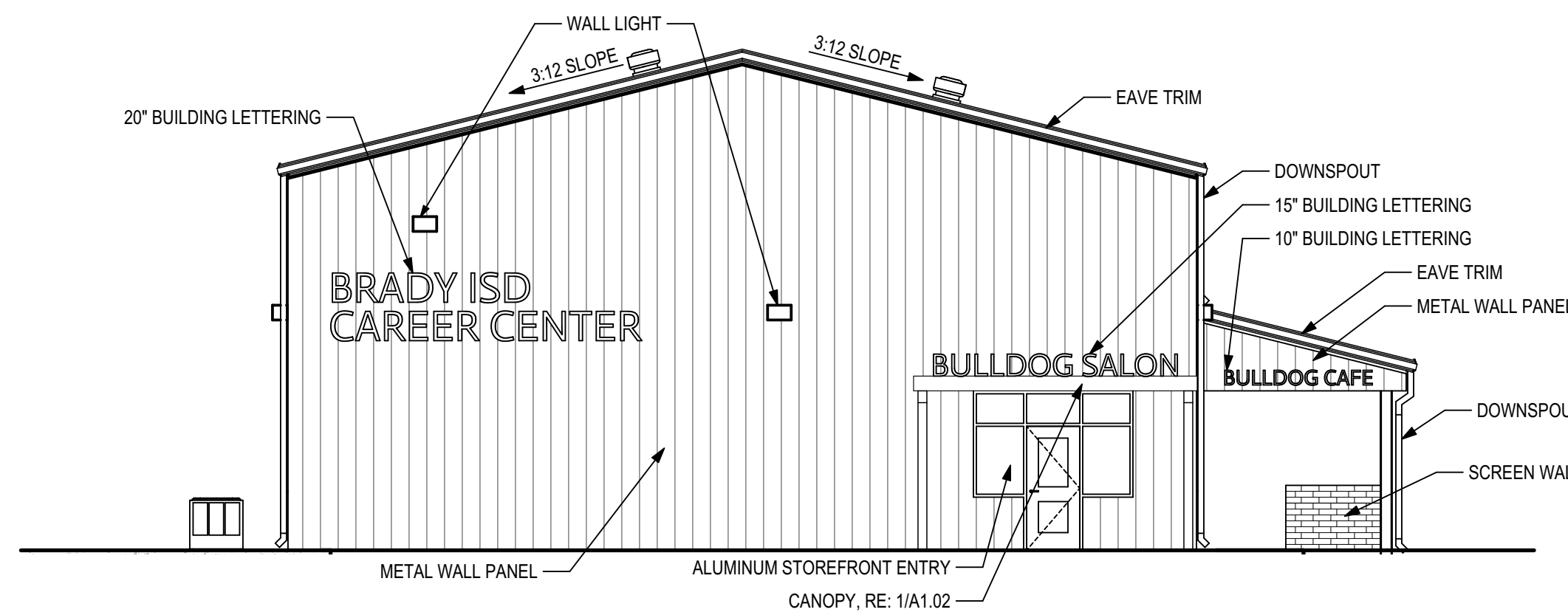
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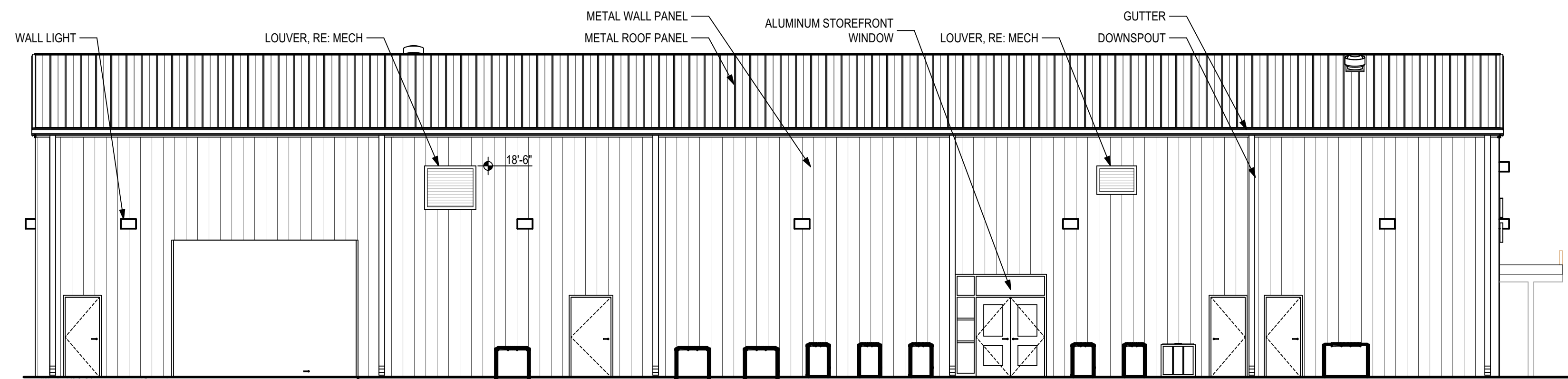
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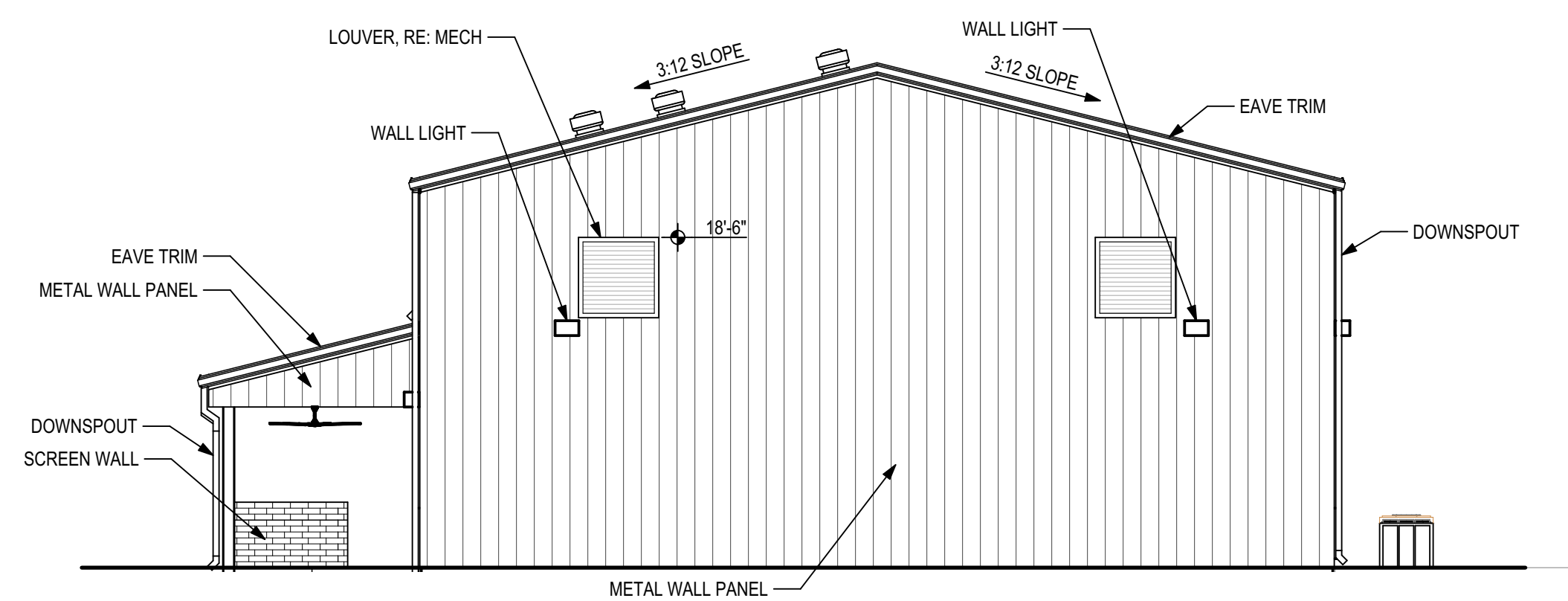
1 CAREER CENTER WEST ELEVATION
SCALE: 1/8" = 1'-0"



2 CAREER CENTER NORTH ELEVATION
SCALE: 1/8" = 1'-0"



3 CAREER CENTER EAST ELEVATION
SCALE: 1/8" = 1'-0"



4 CAREER CENTER SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES

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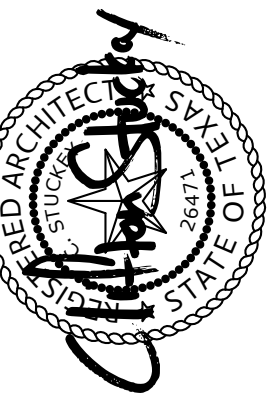
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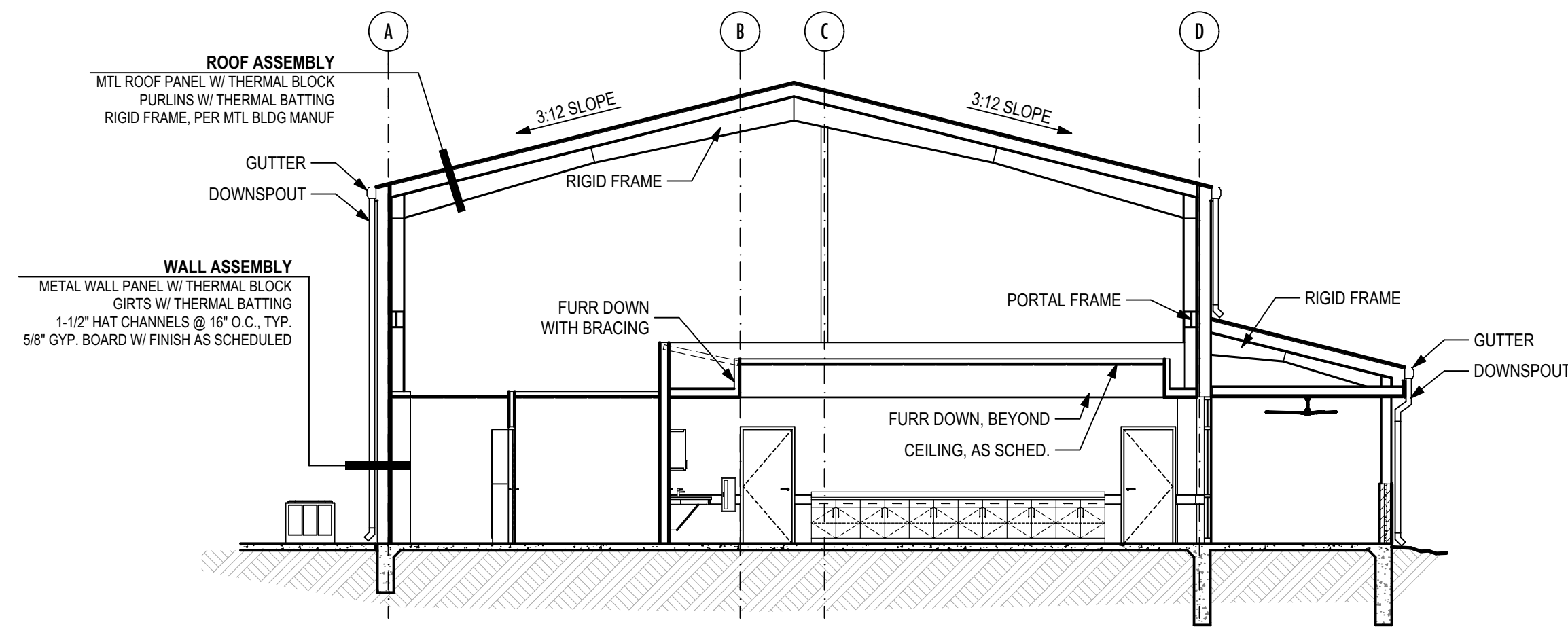
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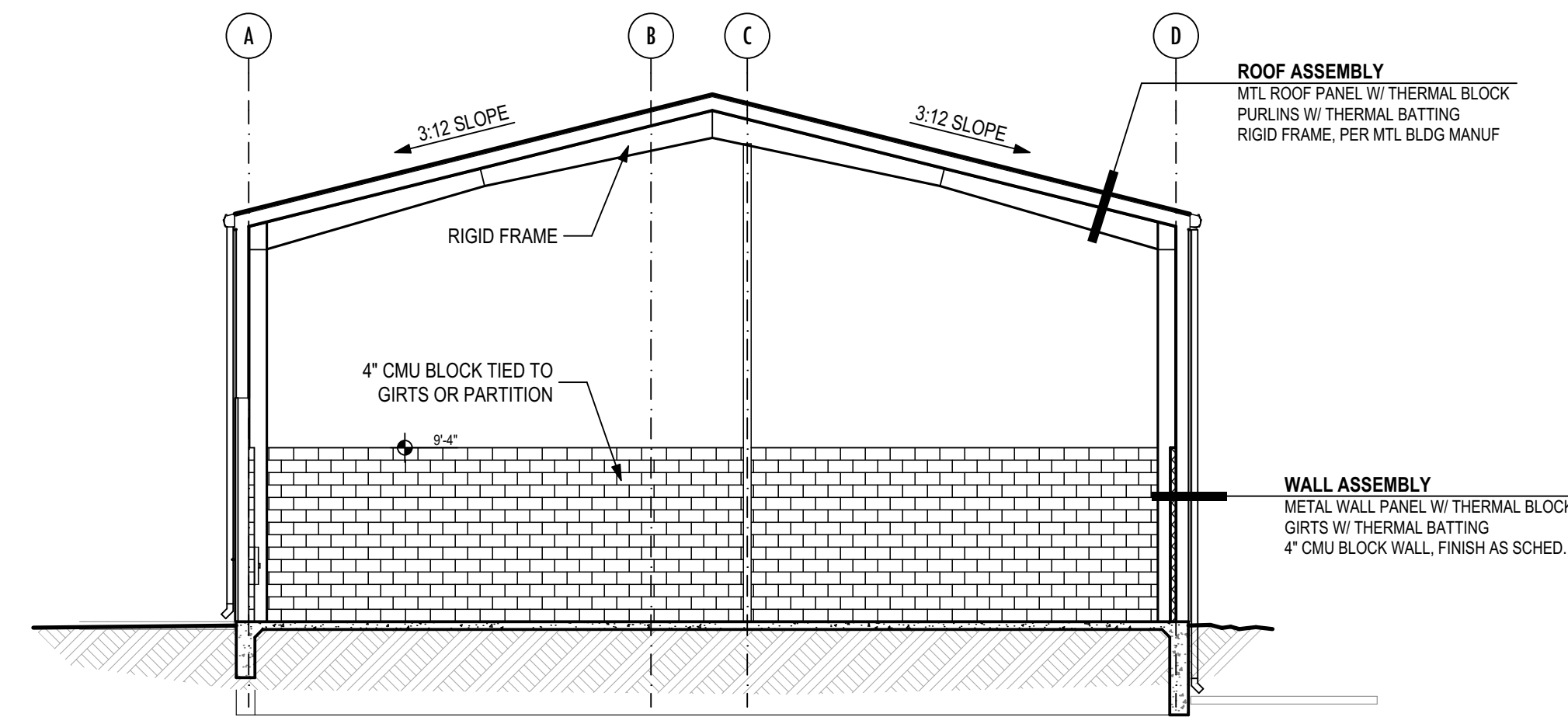
GENERAL NOTES

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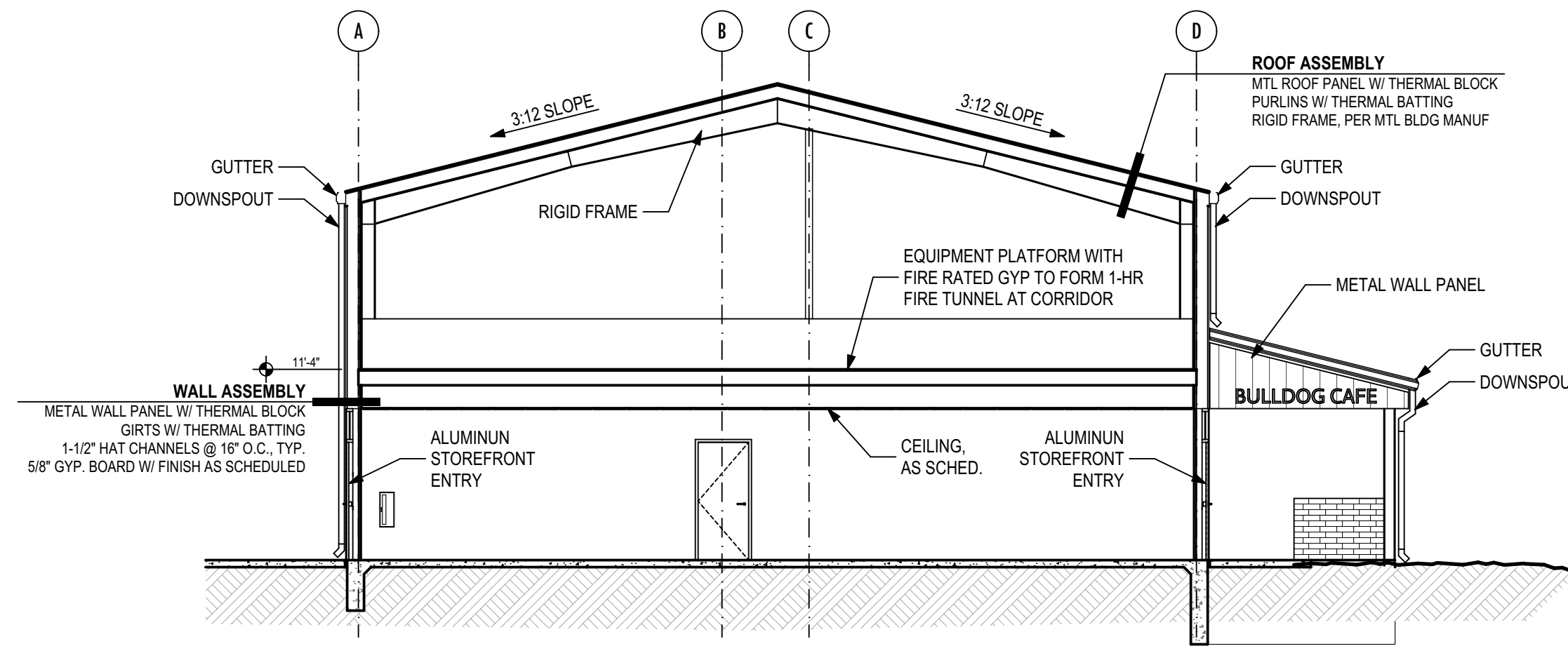
NOTE:
SEE A7.08 FOR TYPICAL METAL BUILDING DETAILS



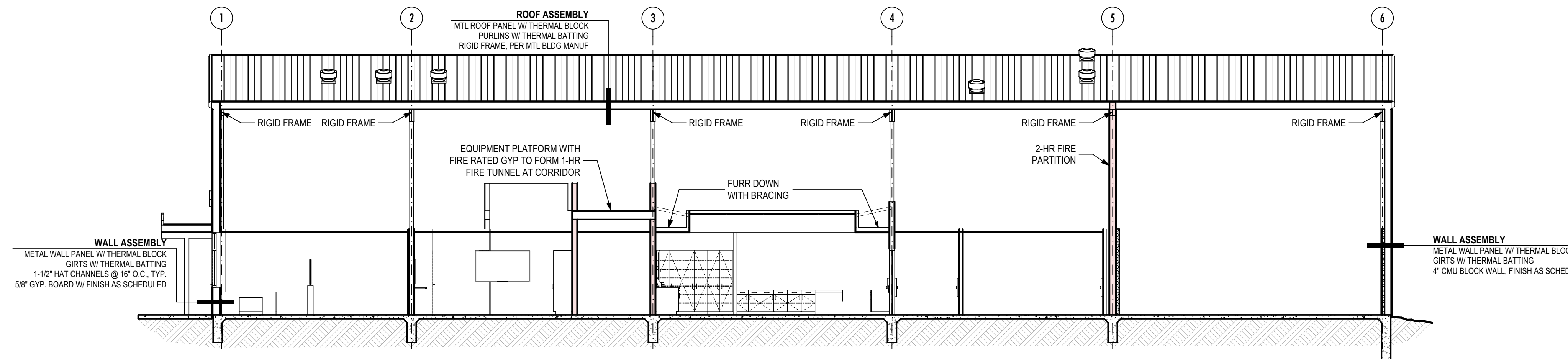
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SCALE: 1/8" = 1'-0"



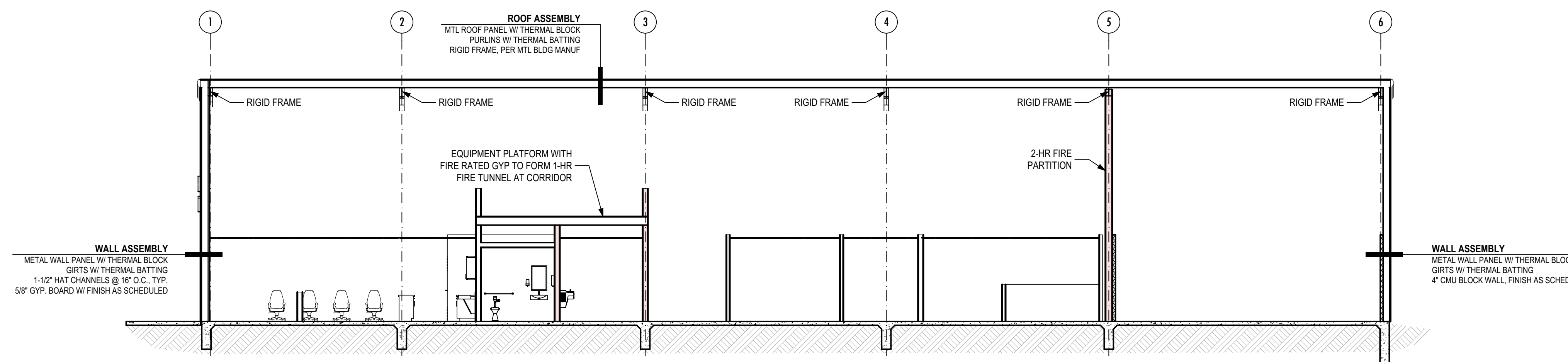
2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



4 BUILDING SECTION
SCALE: 1/8" = 1'-0"



5 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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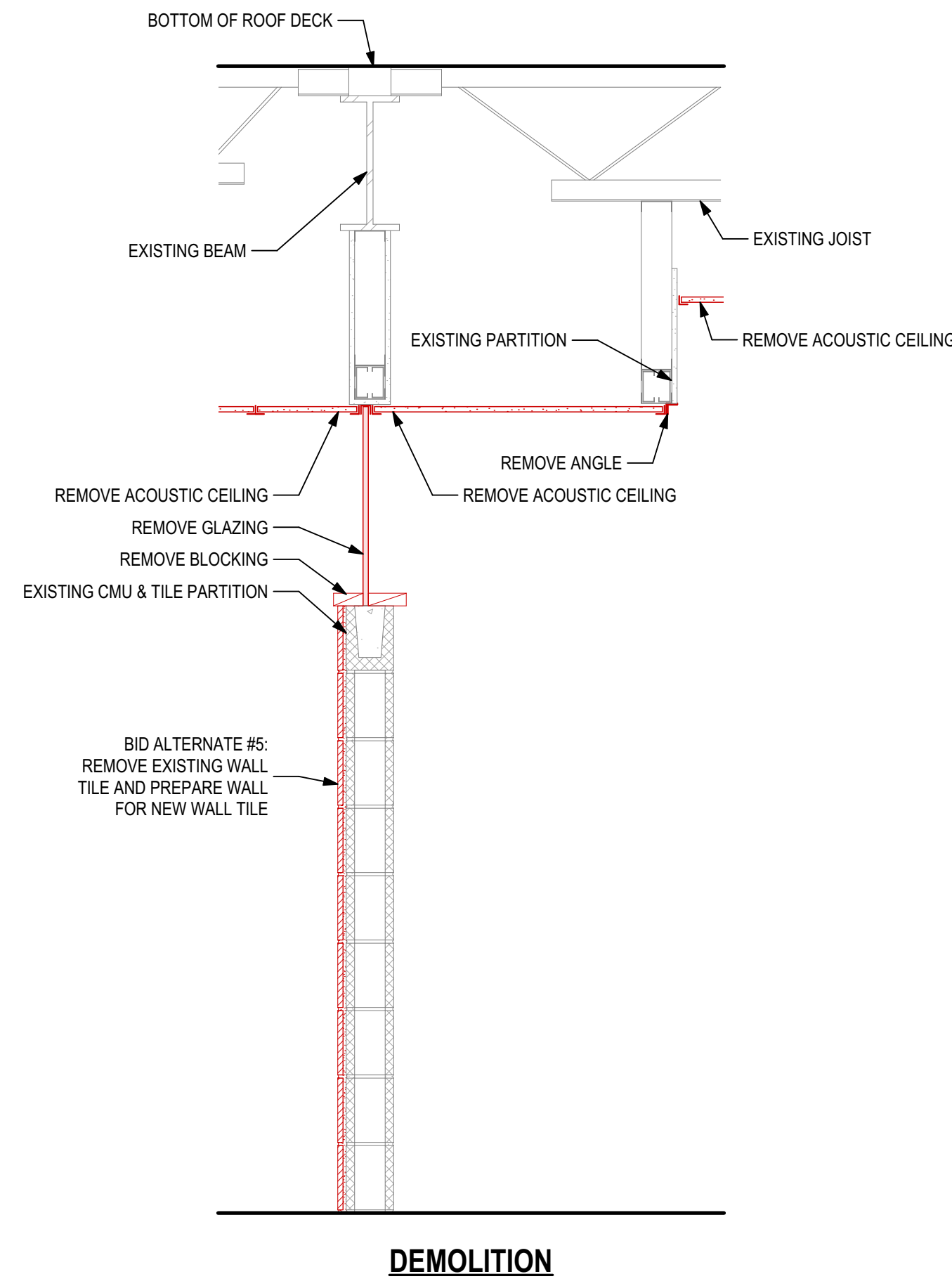
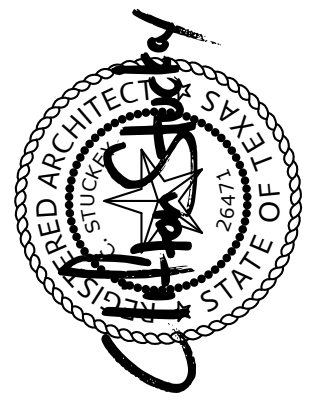
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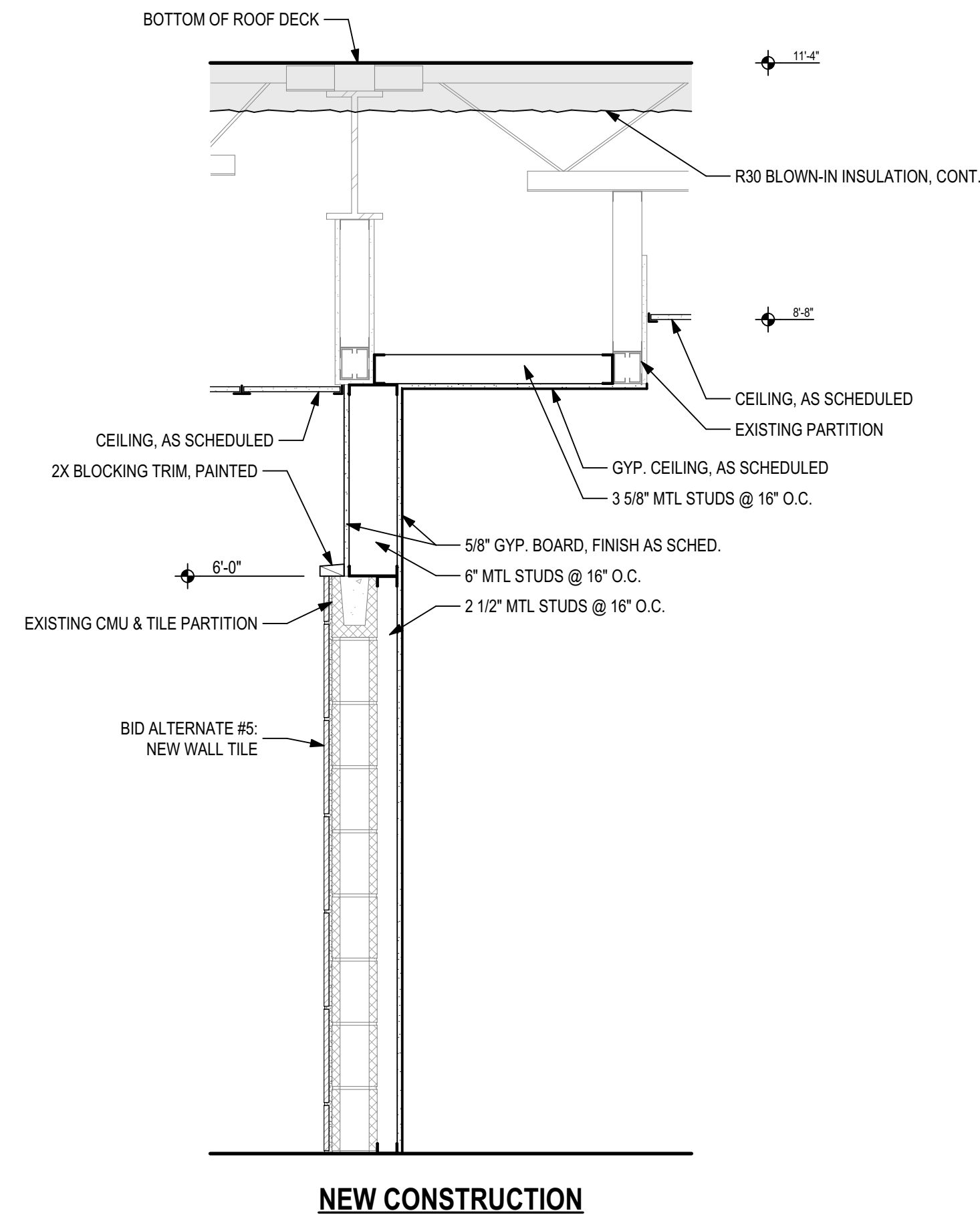
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DEMOLITION



NEW CONSTRUCTION

1 ELEMENTARY CORRIDOR GLAZING INFILL DETAIL

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

Brady Independent School District
BOND 2018 PROJECTS
 Brady, Texas

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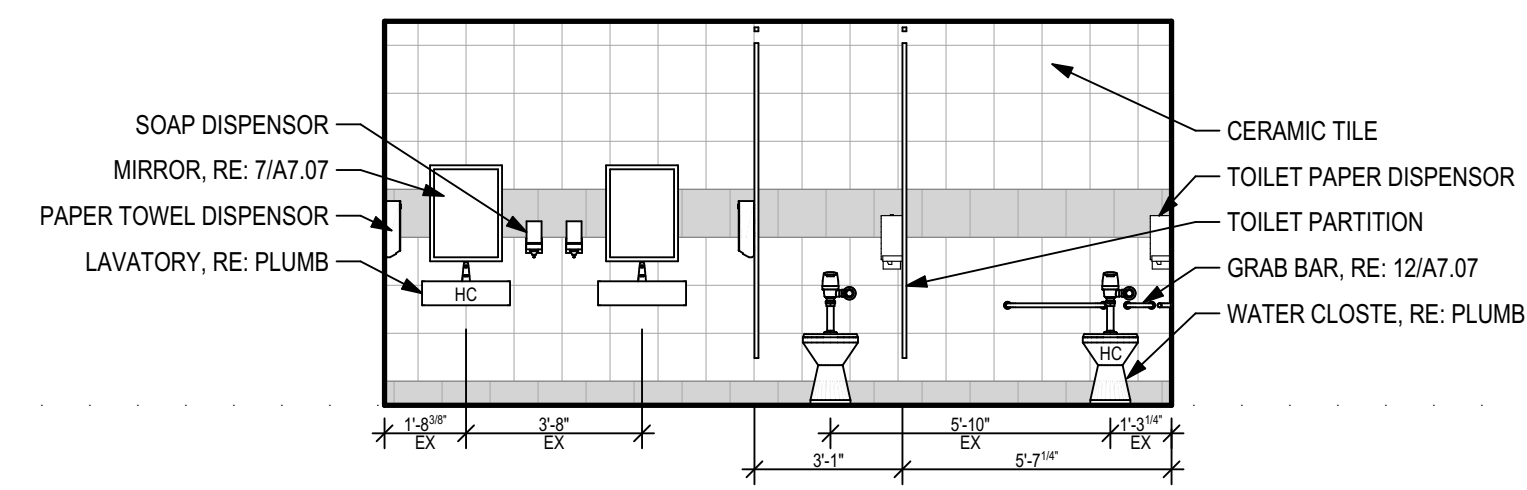
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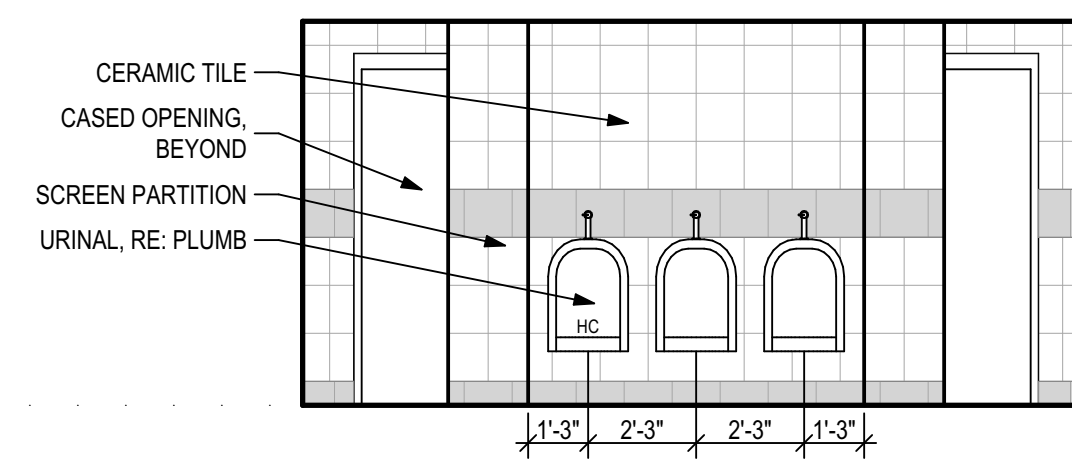
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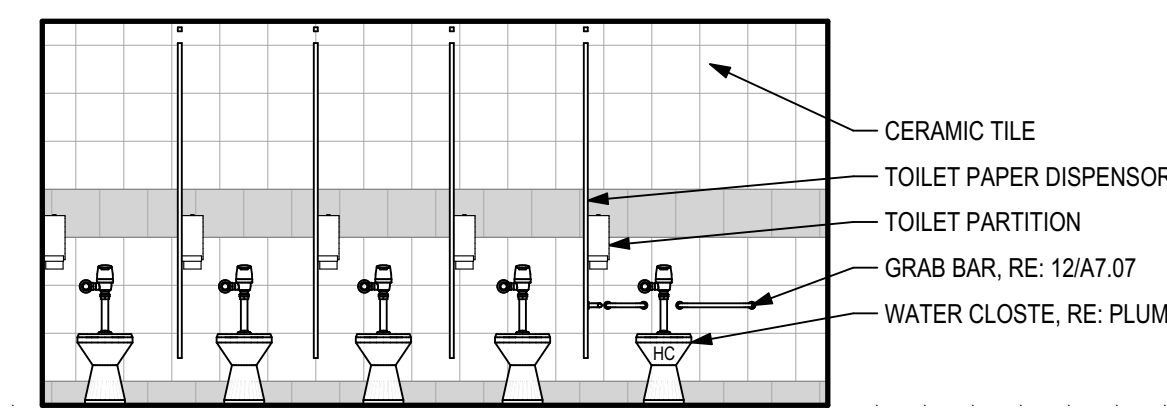
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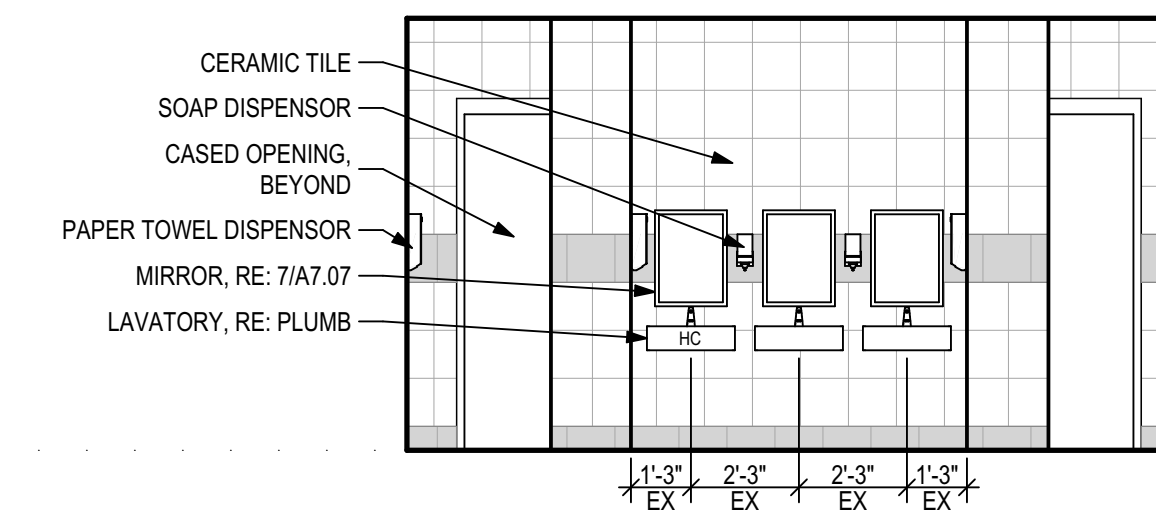
1 BOY'S RR ELEVATION
SCALE: 1/4" = 1'-0"



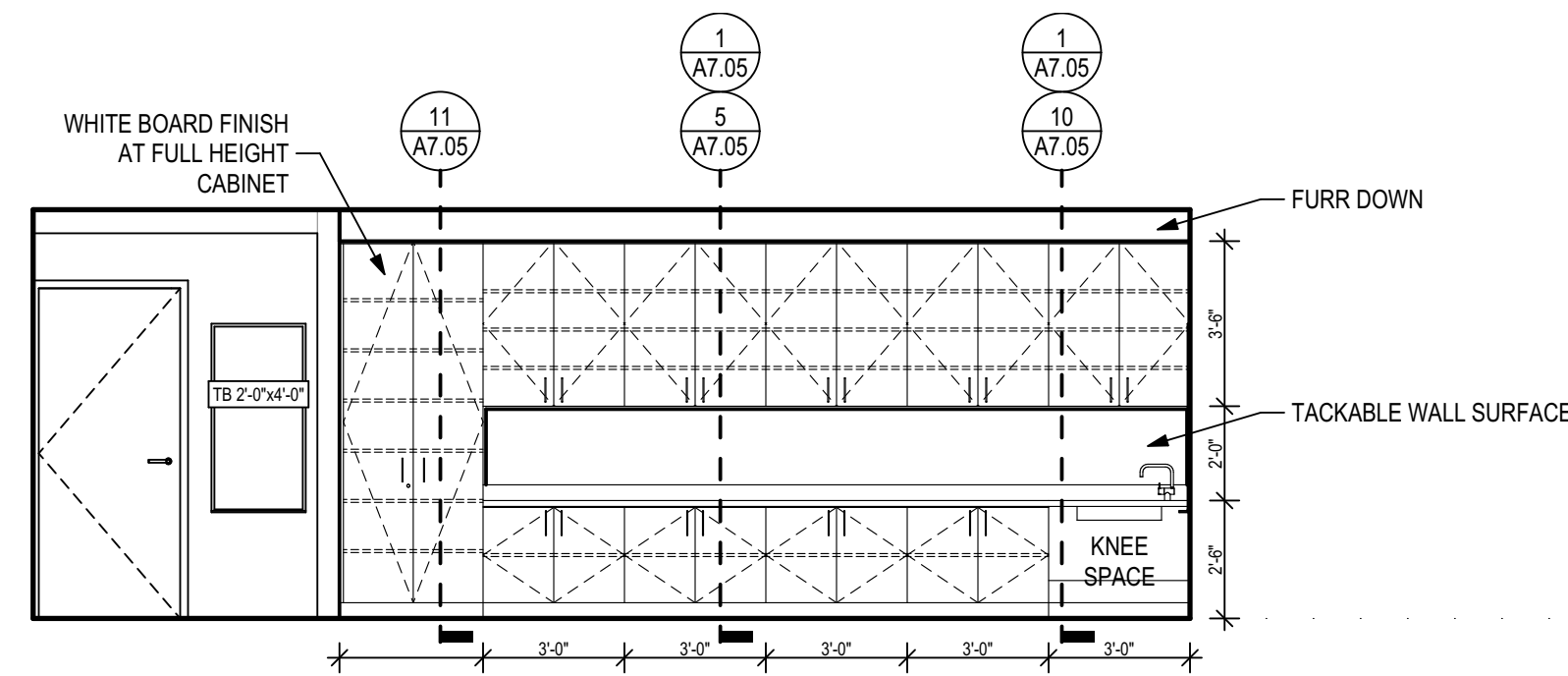
2 BOY'S RR ELEVATION
SCALE: 1/4" = 1'-0"



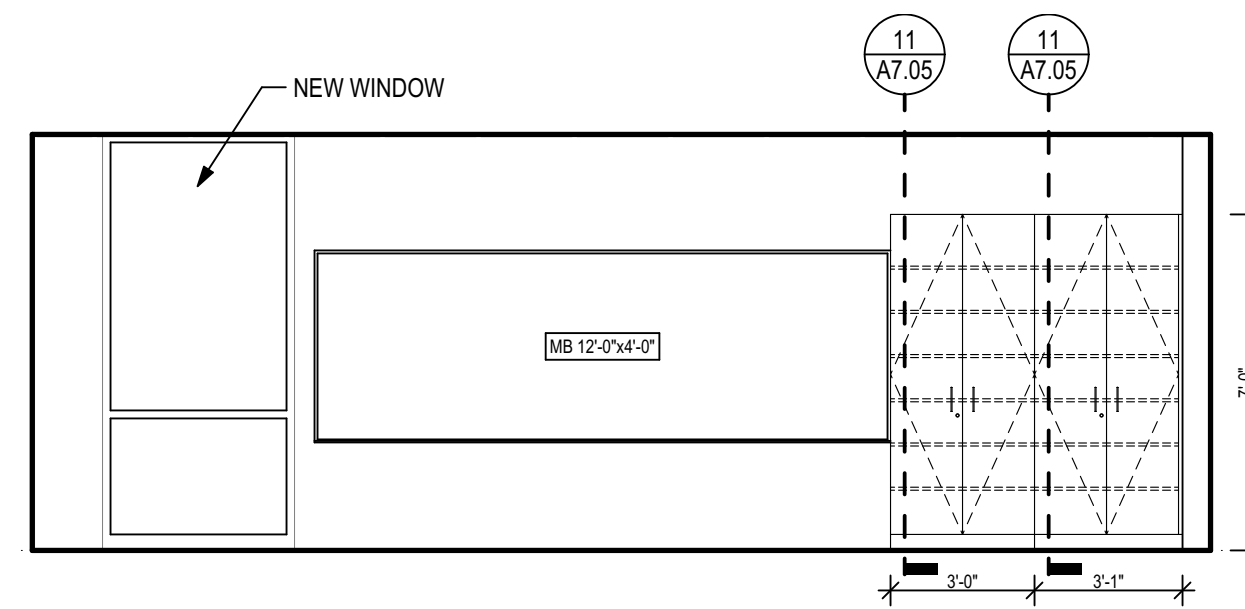
3 GIRL'S RR ELEVATION
SCALE: 1/4" = 1'-0"



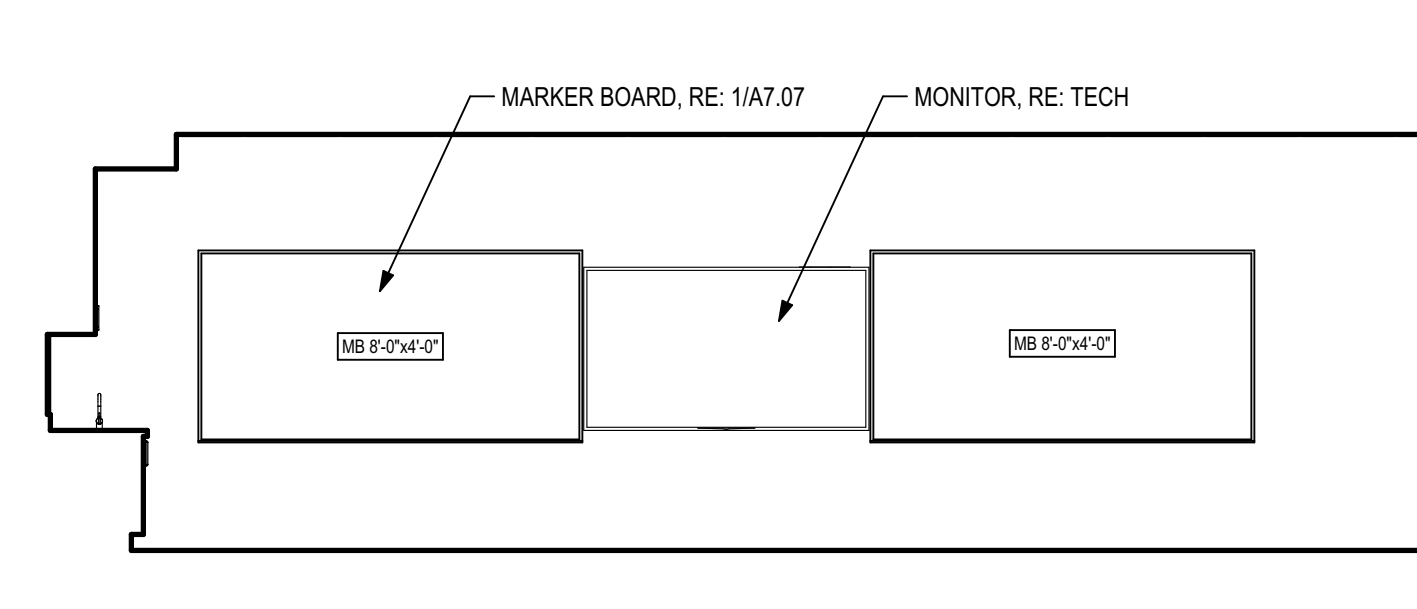
4 GIRL'S RR ELEVATION
SCALE: 1/4" = 1'-0"



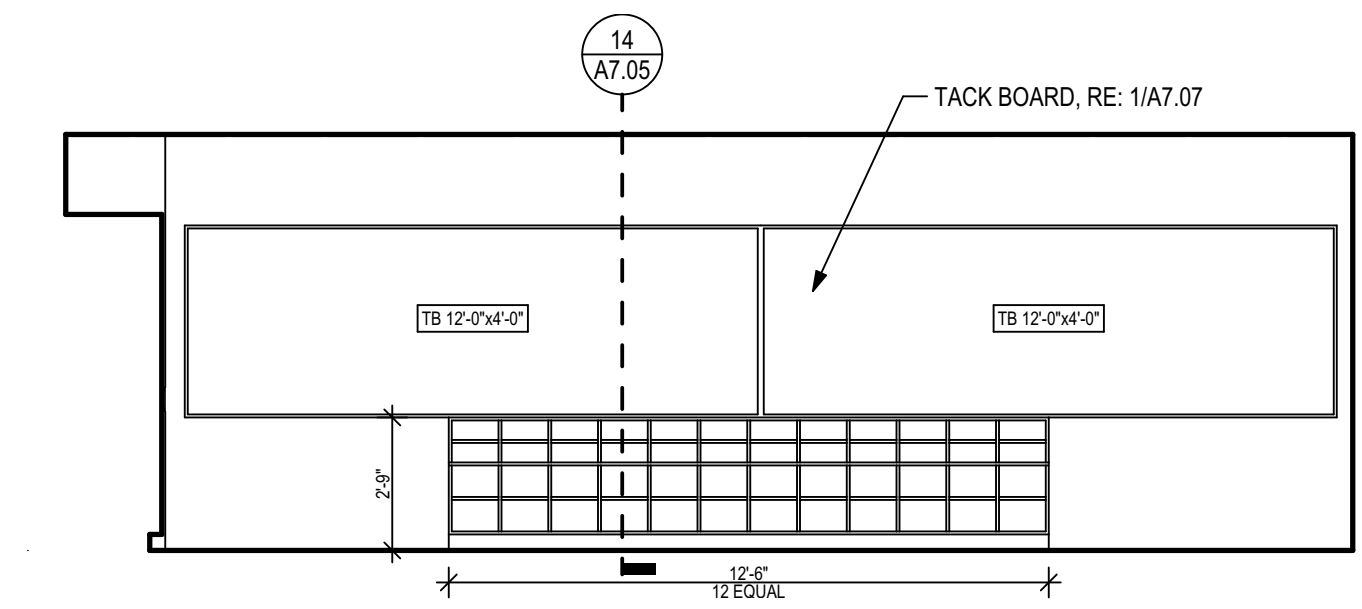
5 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



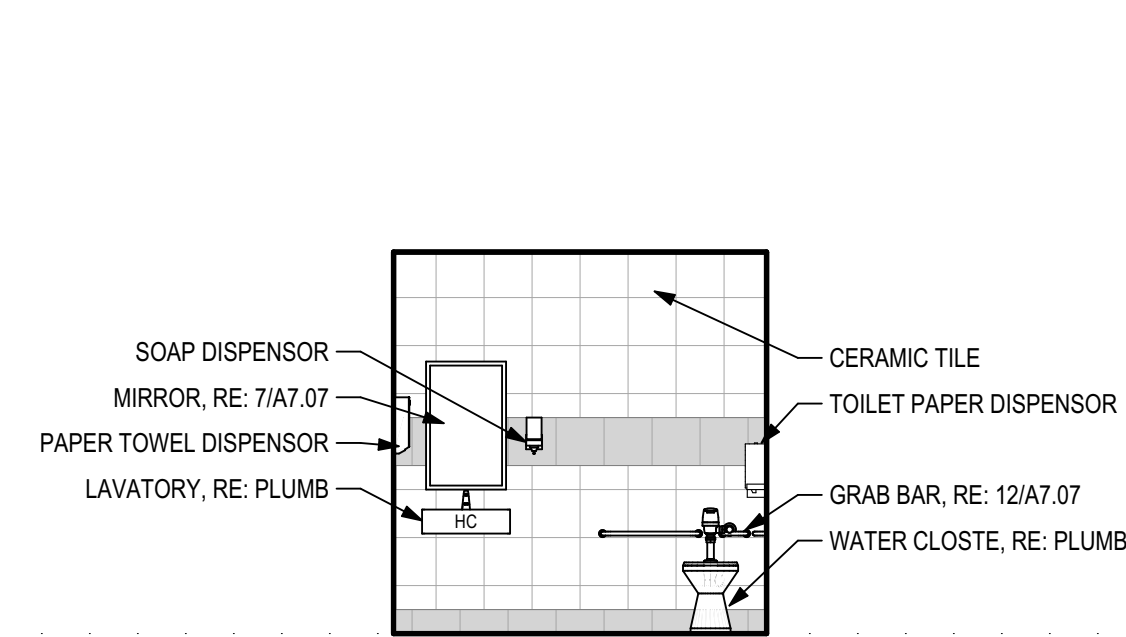
6 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



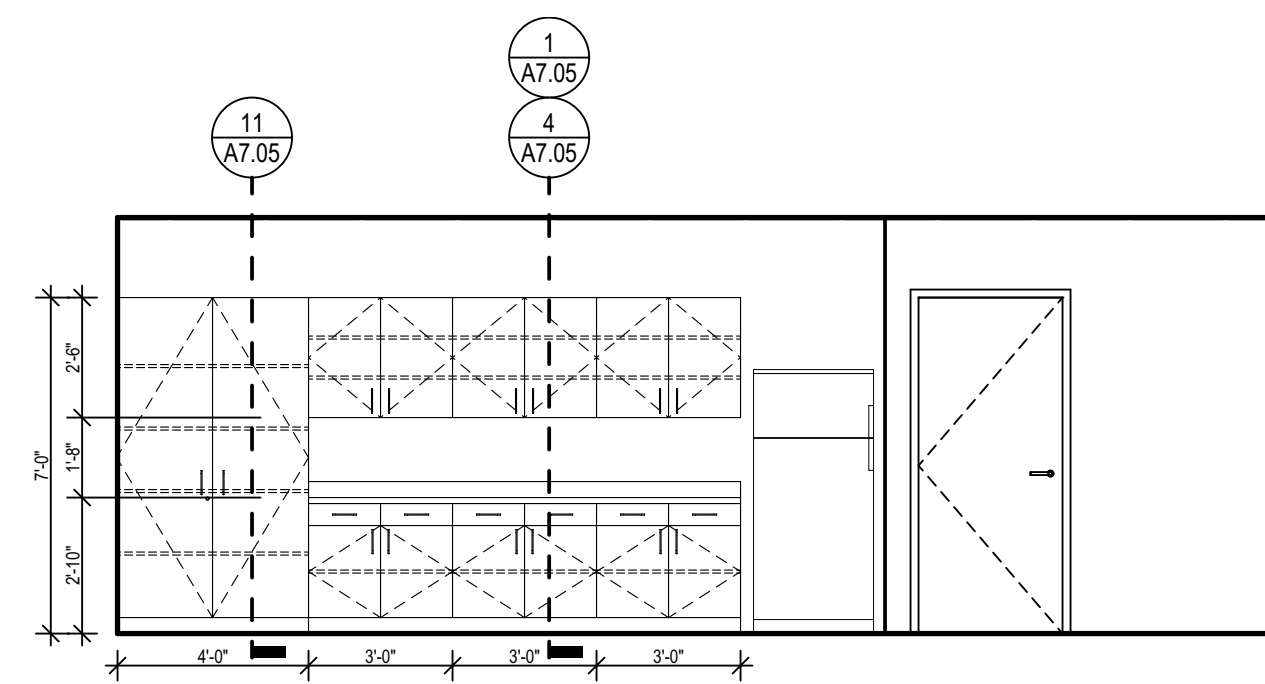
7 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



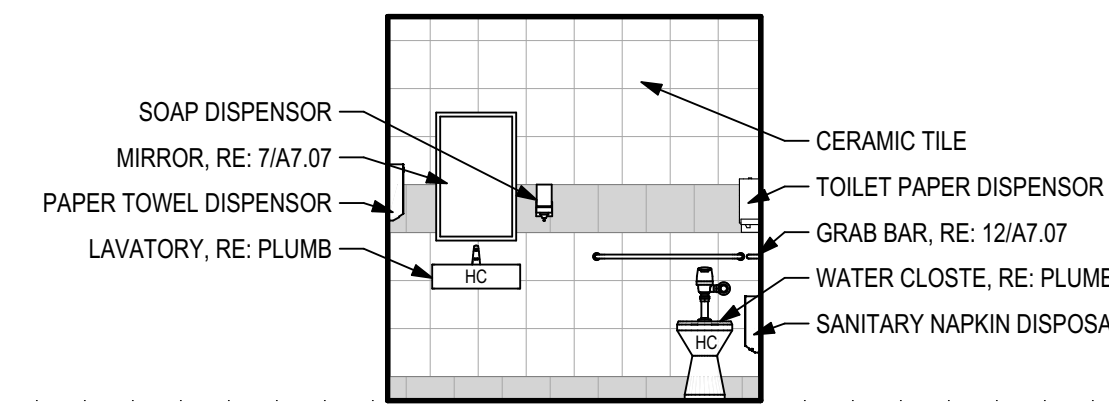
8 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



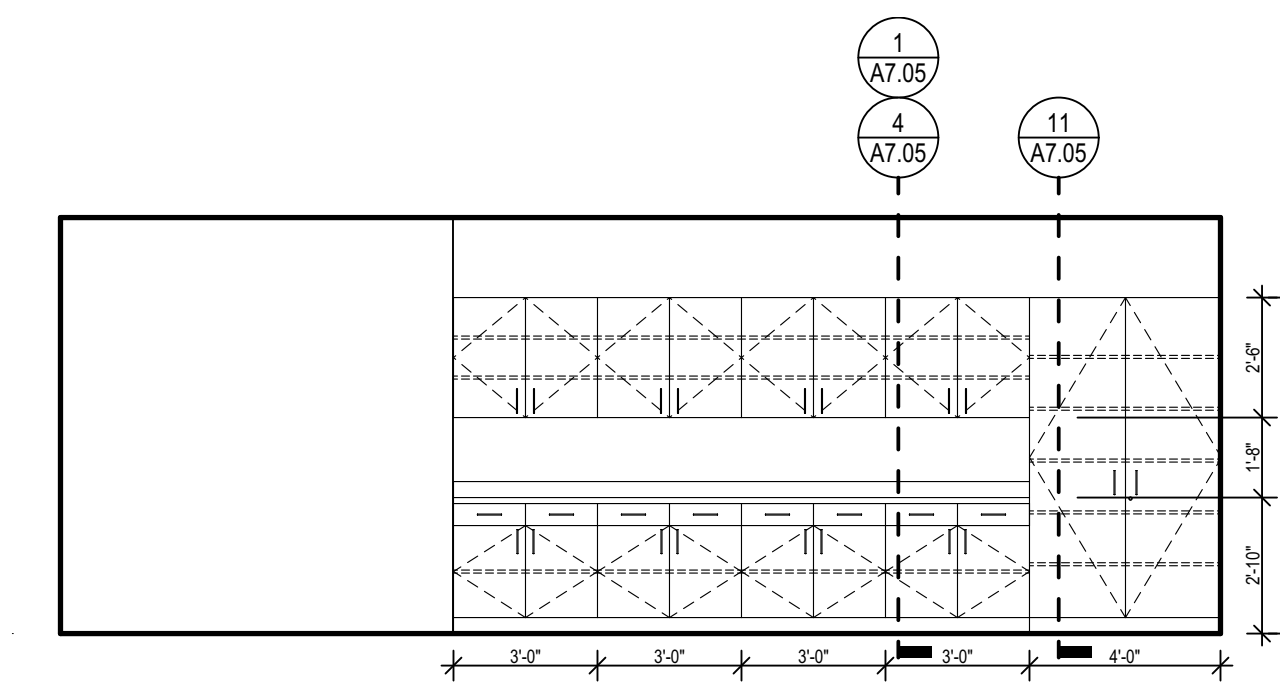
9 RR ELEVATION
SCALE: 1/4" = 1'-0"



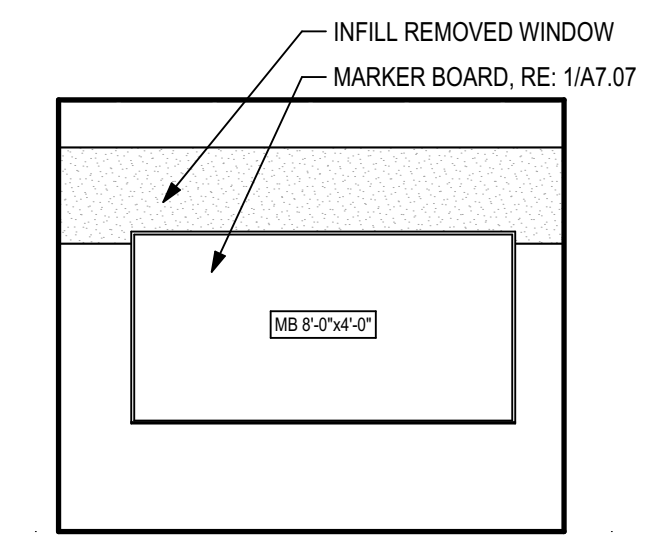
10 NURSE'S OFFICE ELEVATION
SCALE: 1/4" = 1'-0"



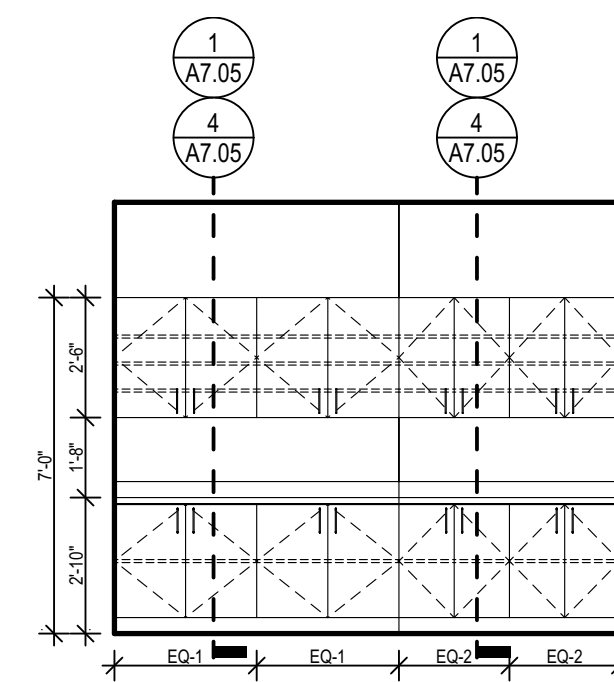
11 RR ELEVATION
SCALE: 1/4" = 1'-0"



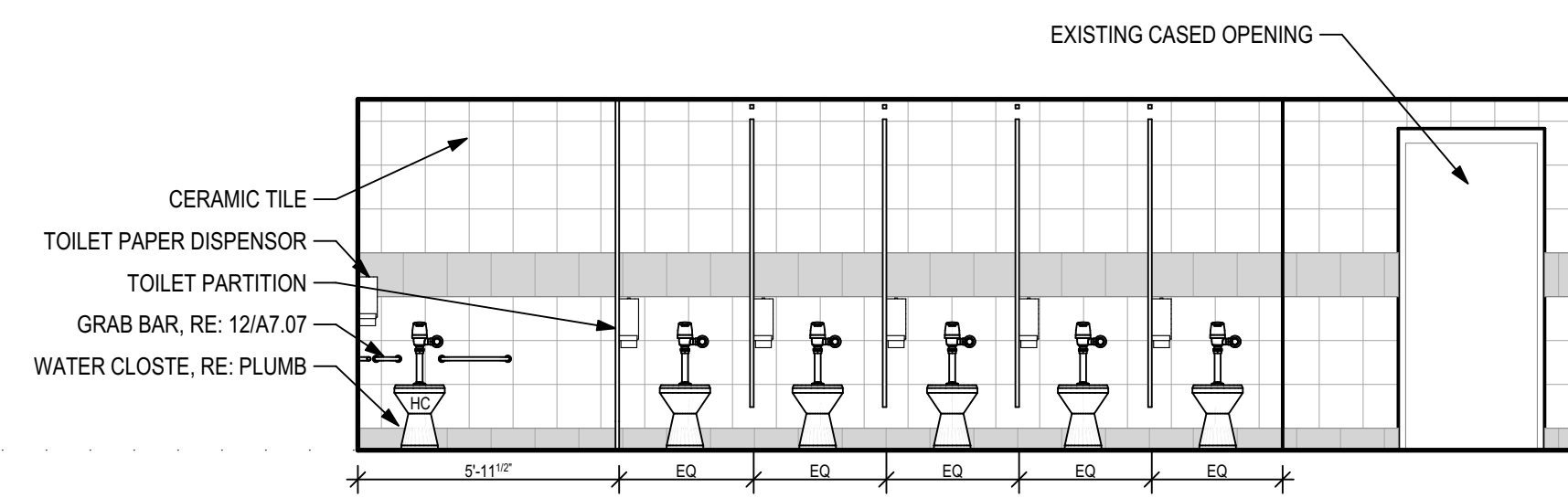
12 COUNSELOR'S OFFICE ELEVATION
SCALE: 1/4" = 1'-0"



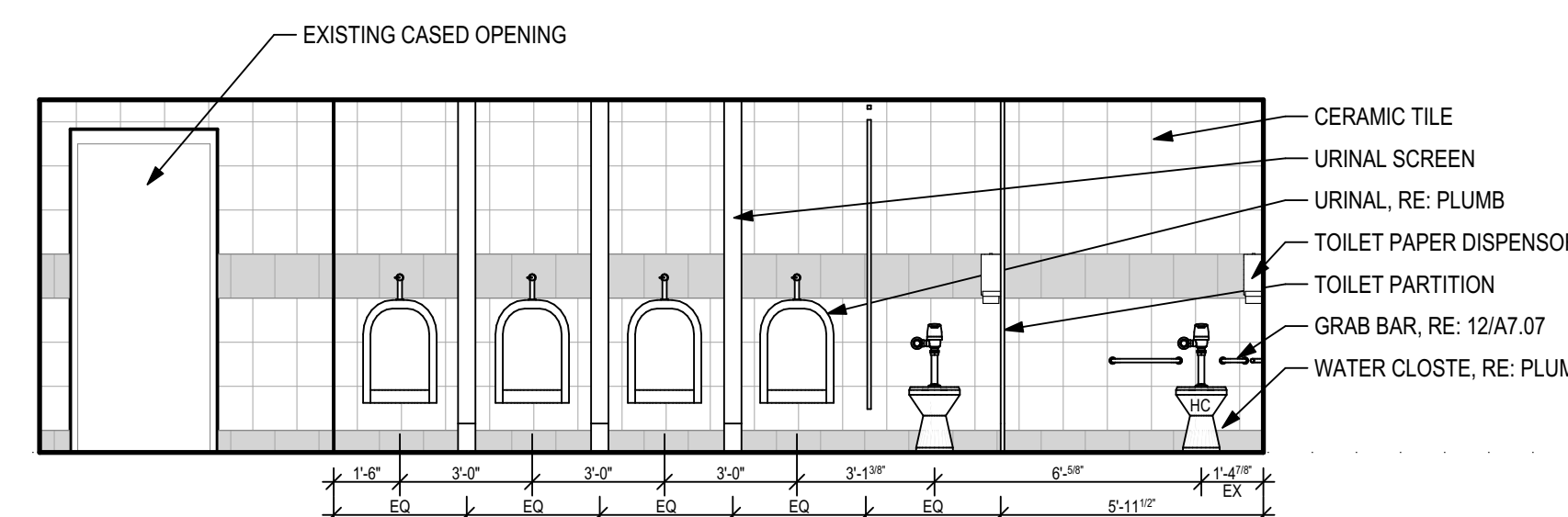
13 INTERVENTION ELEVATION
SCALE: 1/4" = 1'-0"



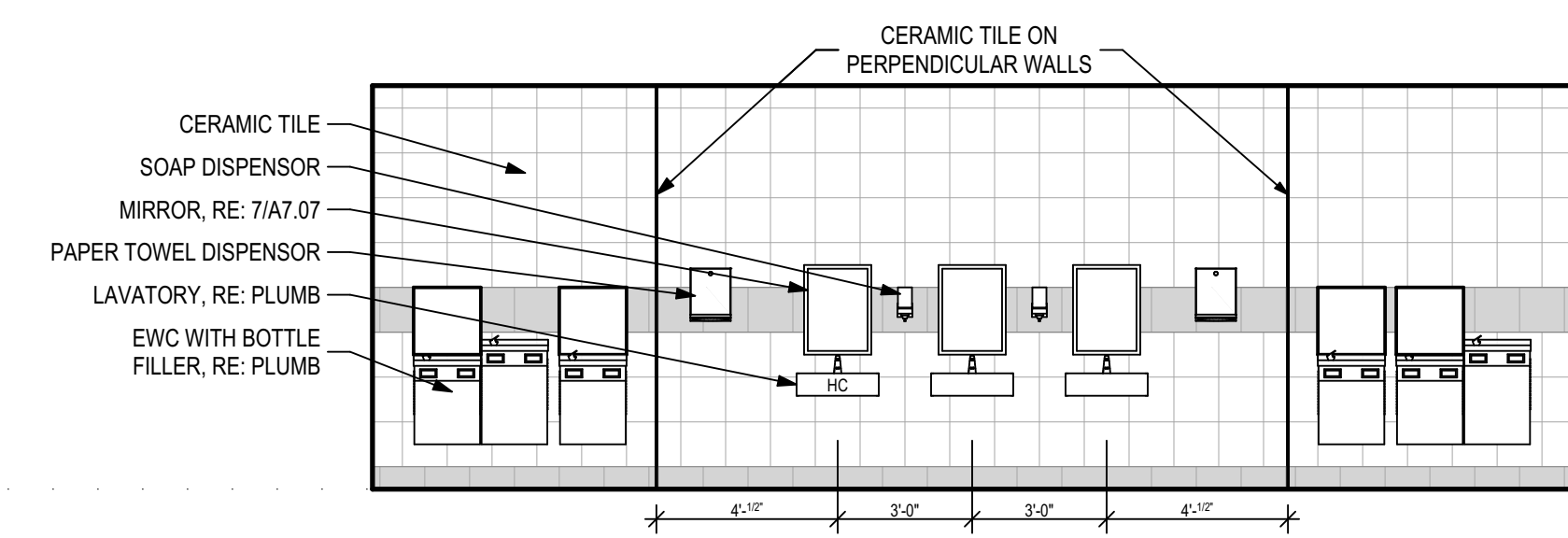
14 INTERVENTION ELEVATION
SCALE: 1/4" = 1'-0"



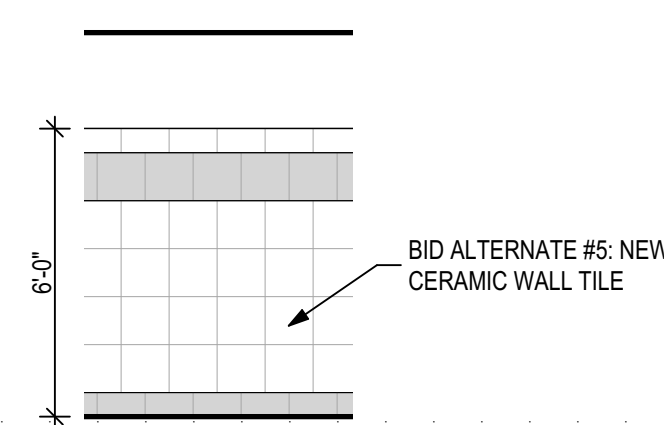
15 BOY'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



16 GIRL'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



17 VESTIBULE ELEVATION
SCALE: 1/4" = 1'-0"



18 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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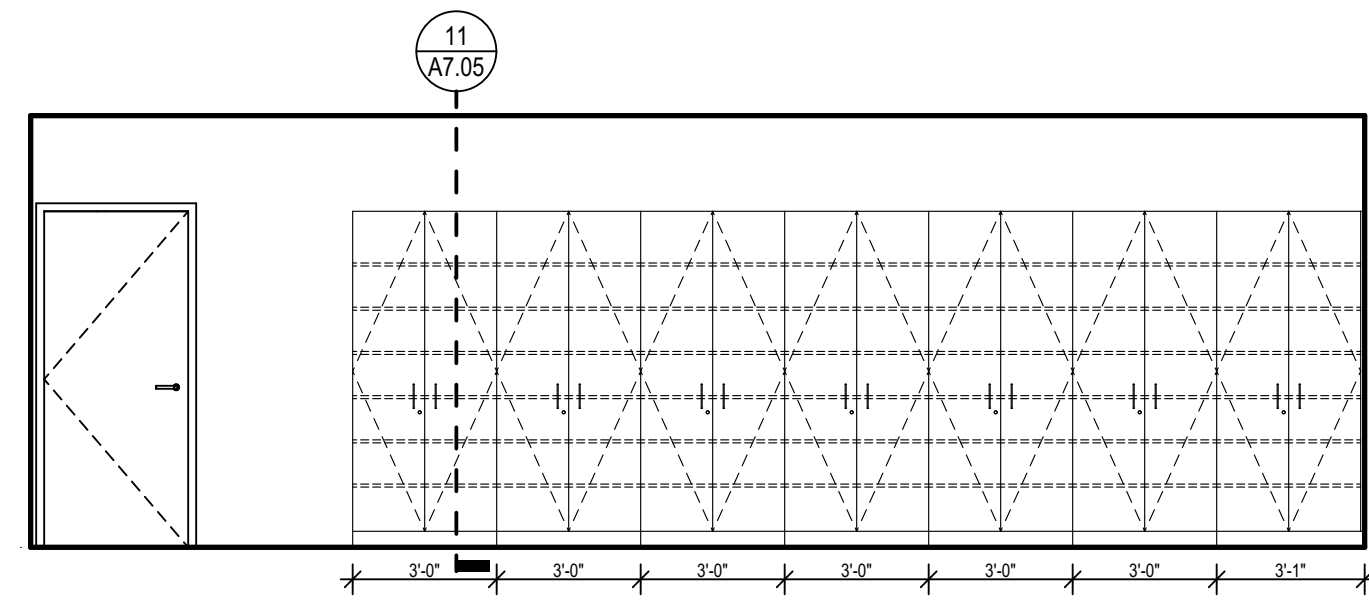
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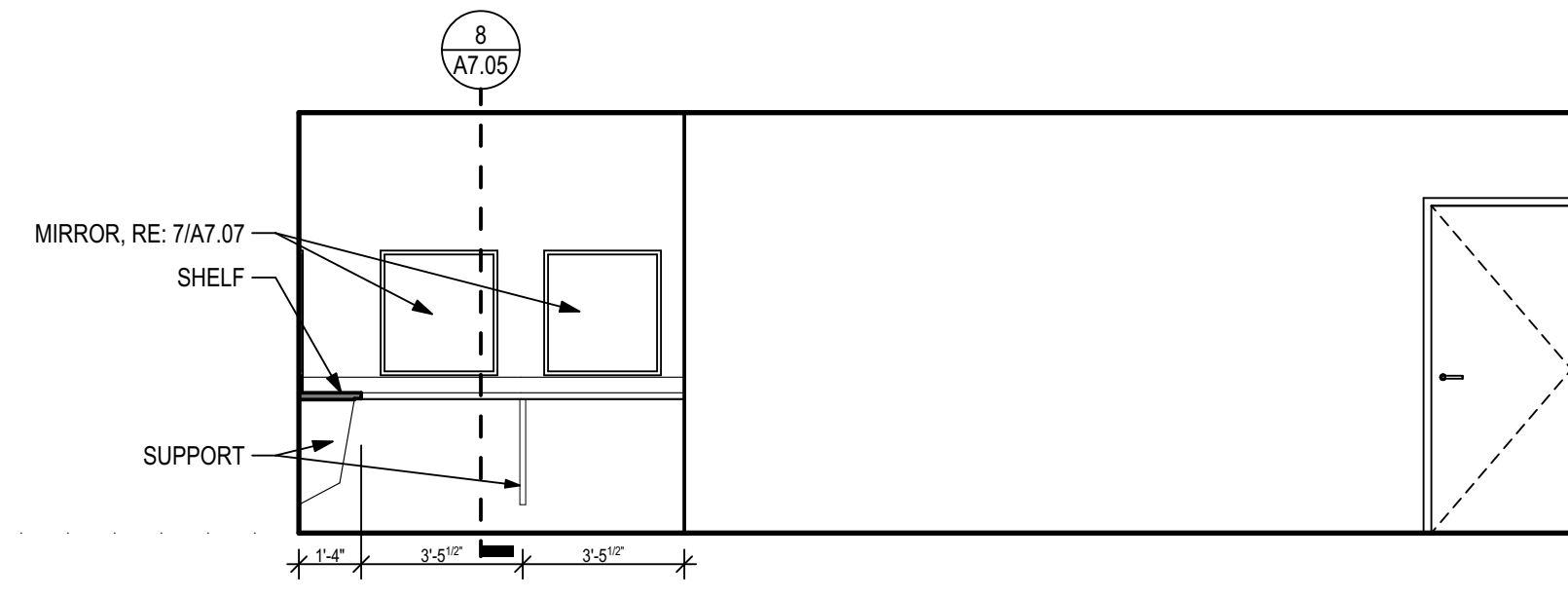
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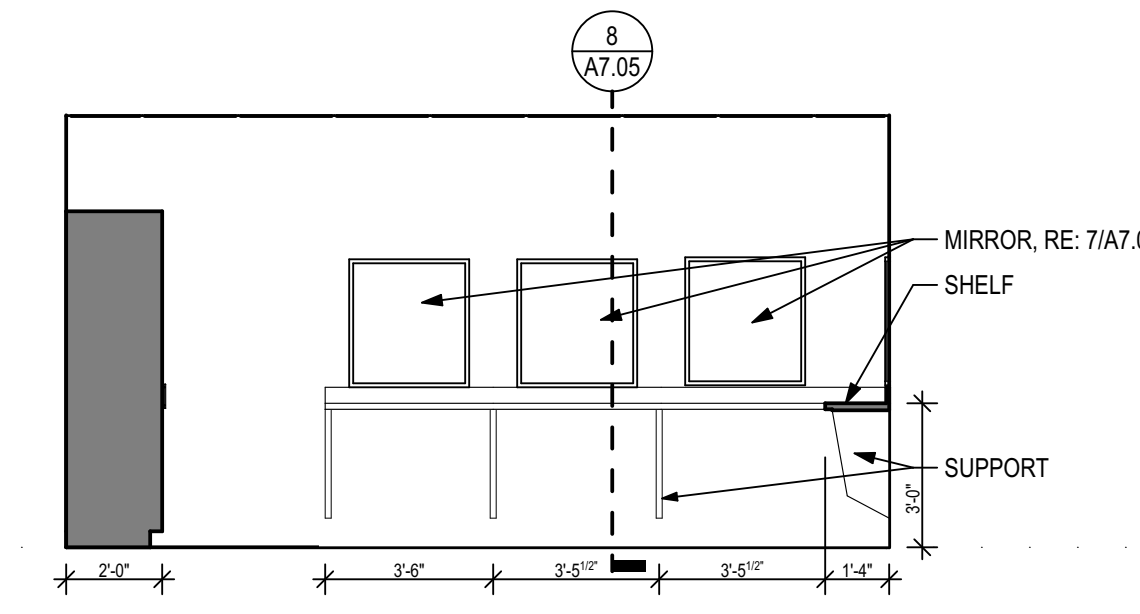
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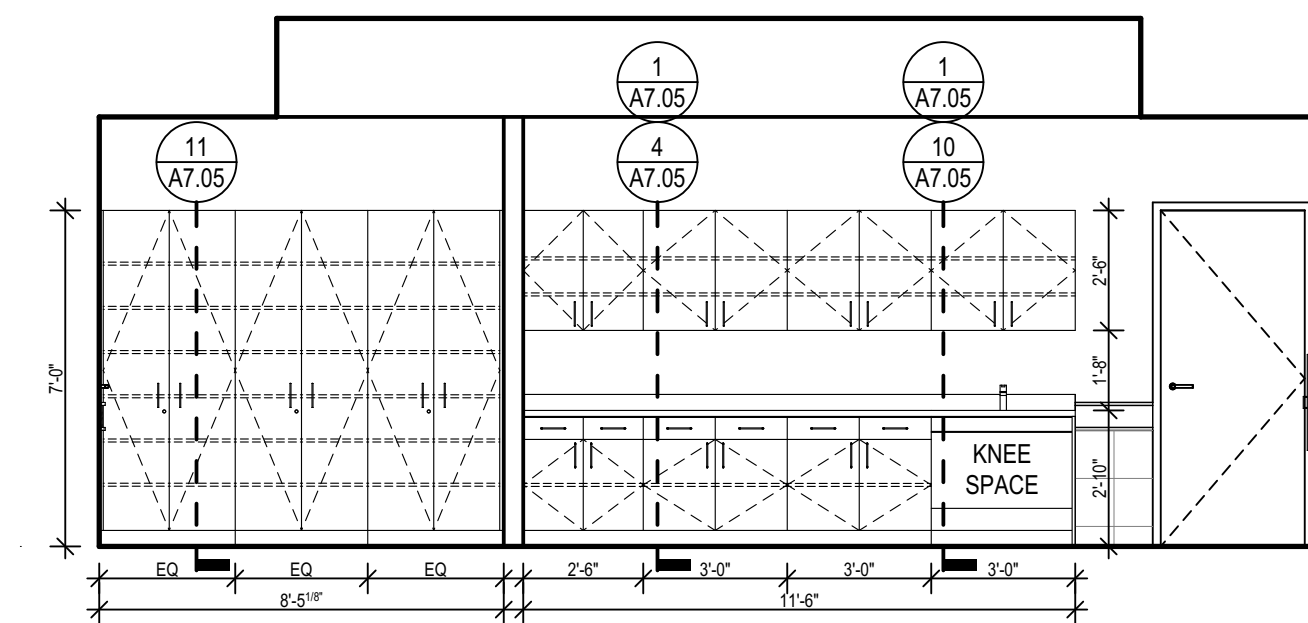
1 COSMETOLOGY CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



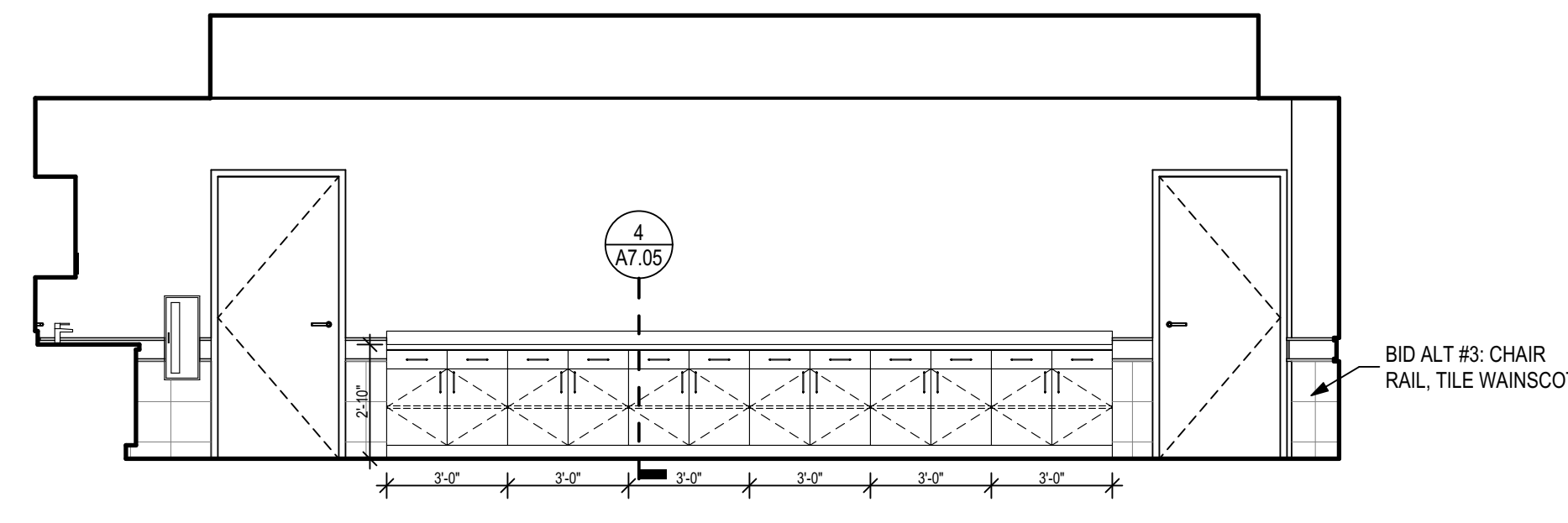
2 COSMETOLOGY CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



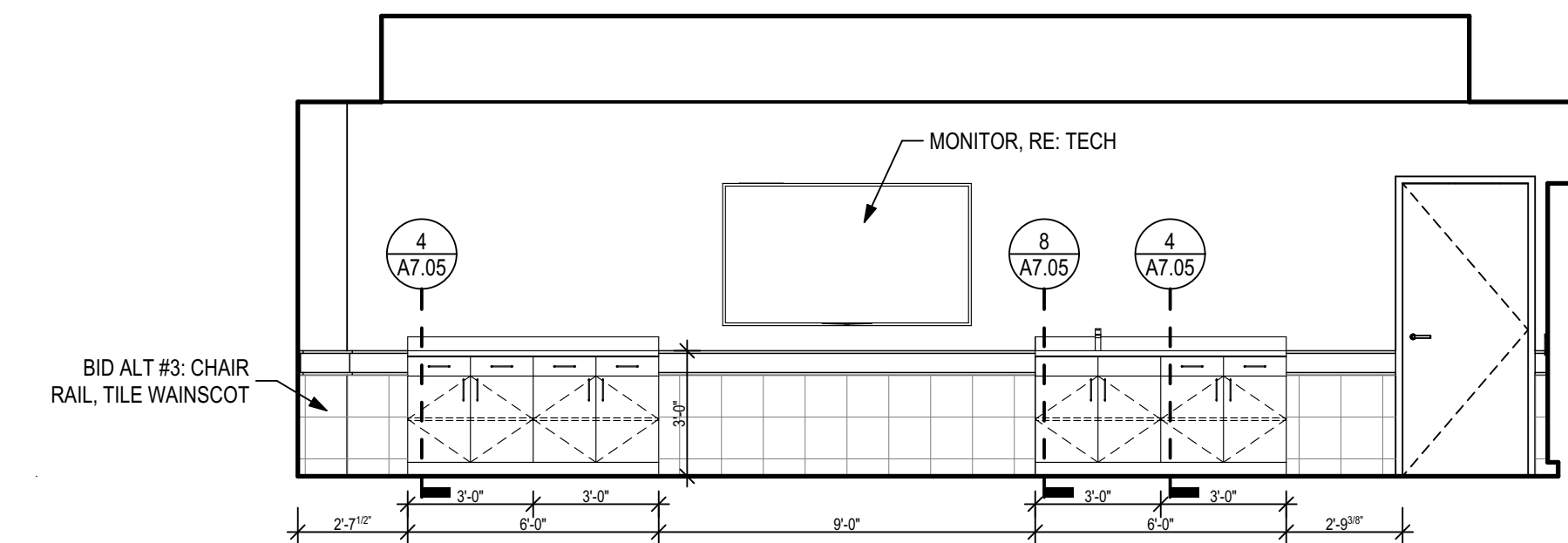
3 COSMETOLOGY CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



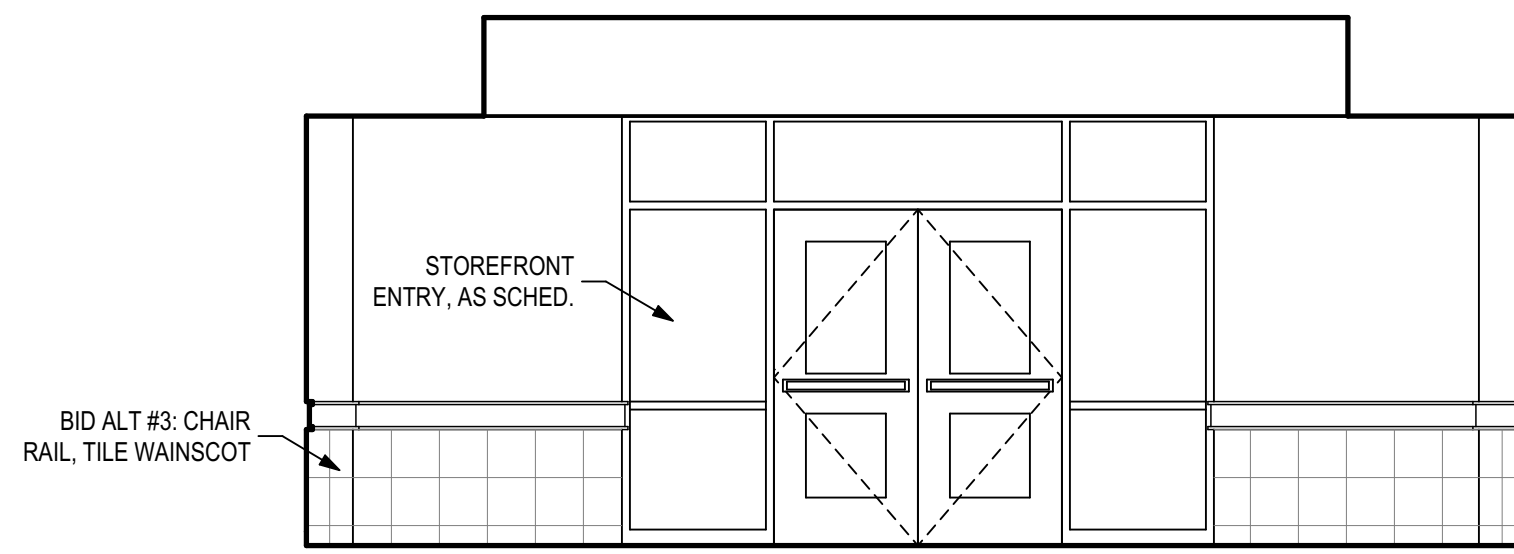
4 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



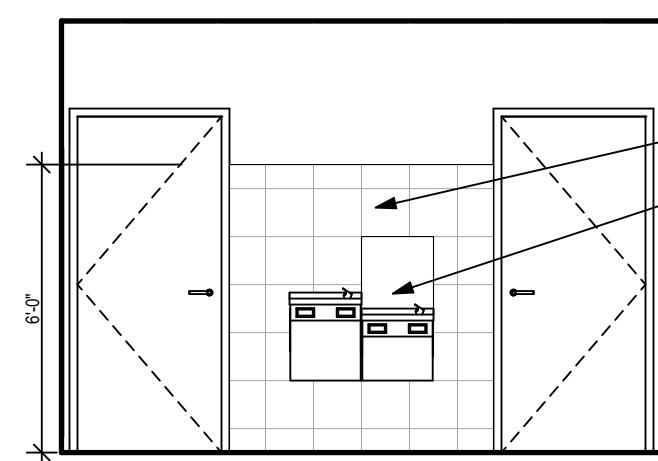
5 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



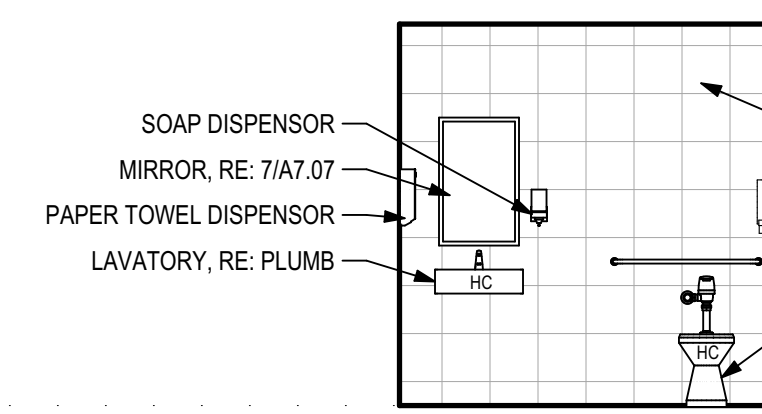
6 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



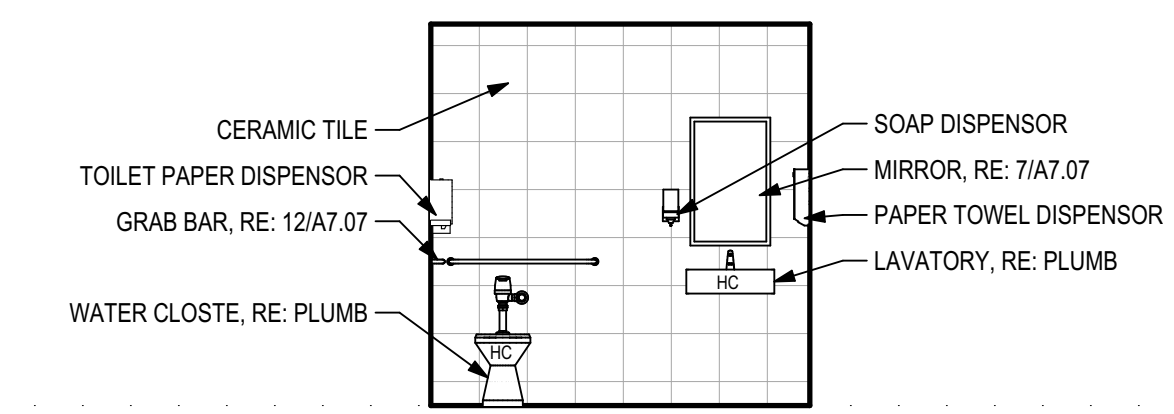
7 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"



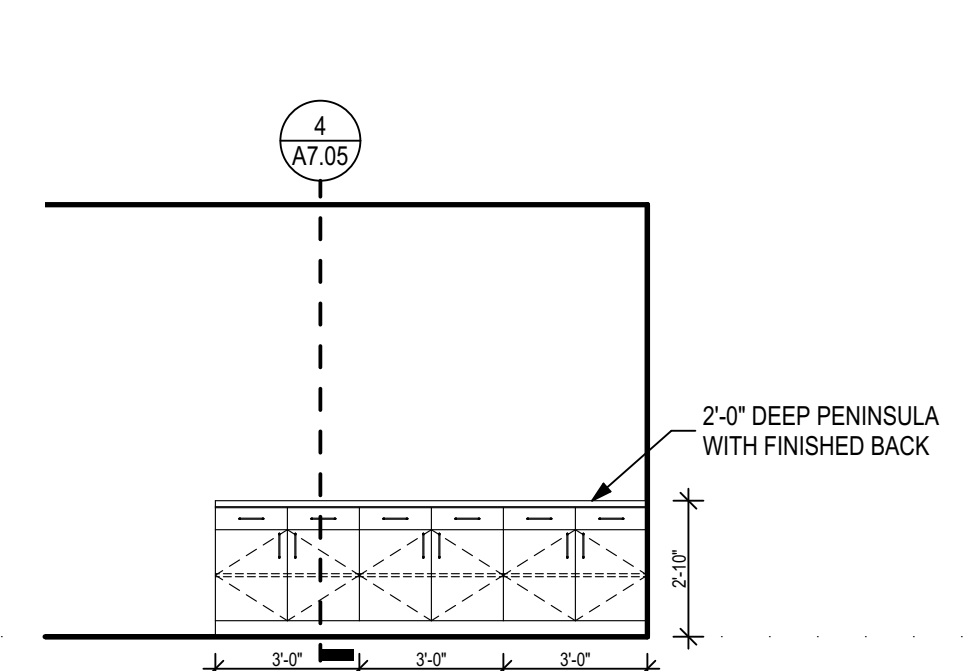
8 CORR ELEVATION
SCALE: 1/4" = 1'-0"



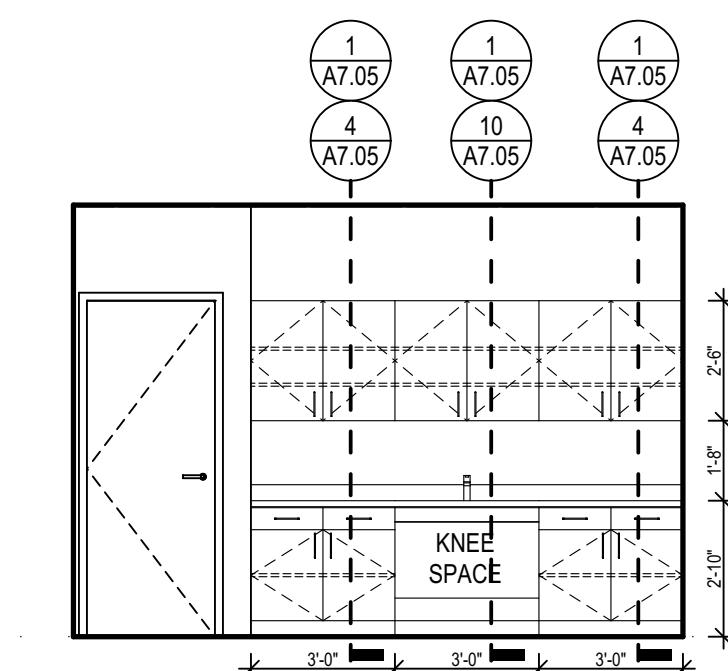
9 RR ELEVATION
SCALE: 1/4" = 1'-0"



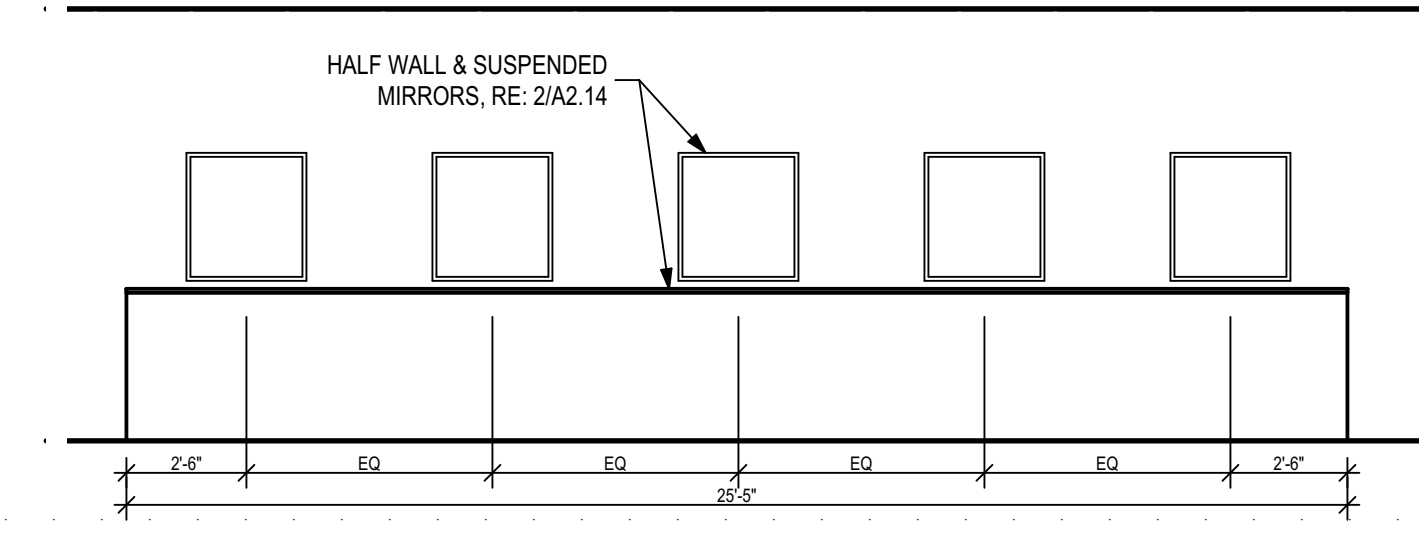
10 RR ELEVATION
SCALE: 1/4" = 1'-0"



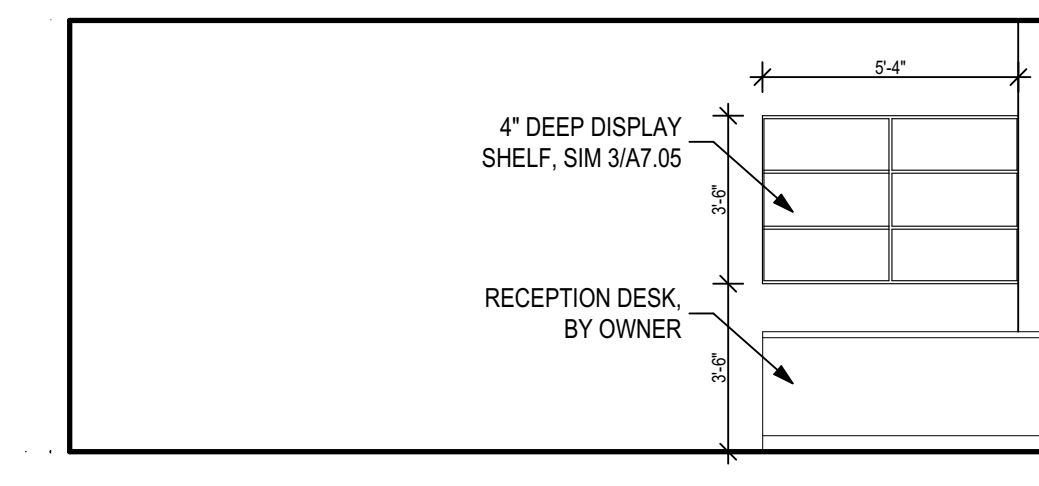
11 DISPENS ELEVATION
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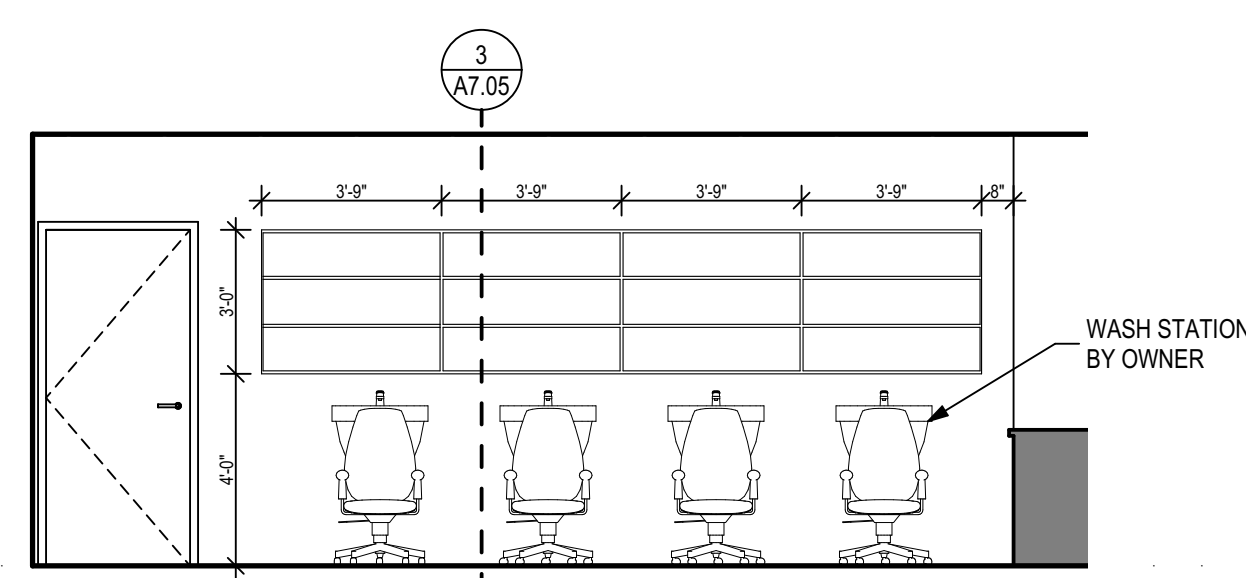
12 DISPENS ELEVATION
SCALE: 1/4" = 1'-0"



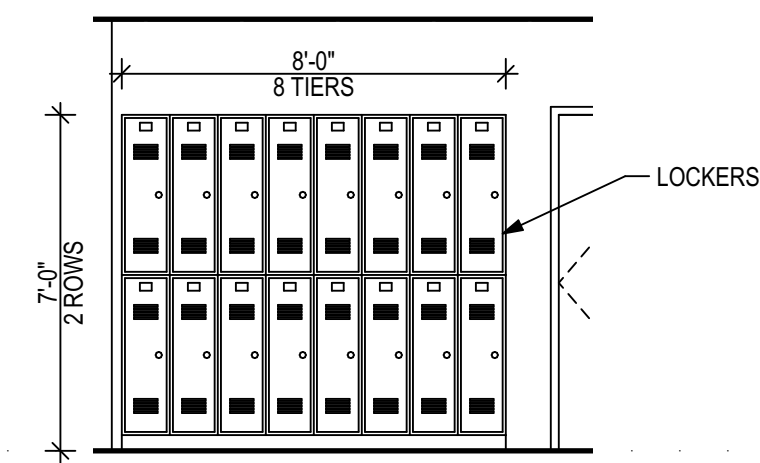
13 COSMETOLOGY STUDIO ELEVATION
SCALE: 1/4" = 1'-0"



14 COSMETOLOGY STUDIO ELEVATION
SCALE: 1/4" = 1'-0"



15 COSMETOLOGY STUDIO ELEVATION
SCALE: 1/4" = 1'-0"



16 CLASSROOM ELEVATION
SCALE: 1/4" = 1'-0"

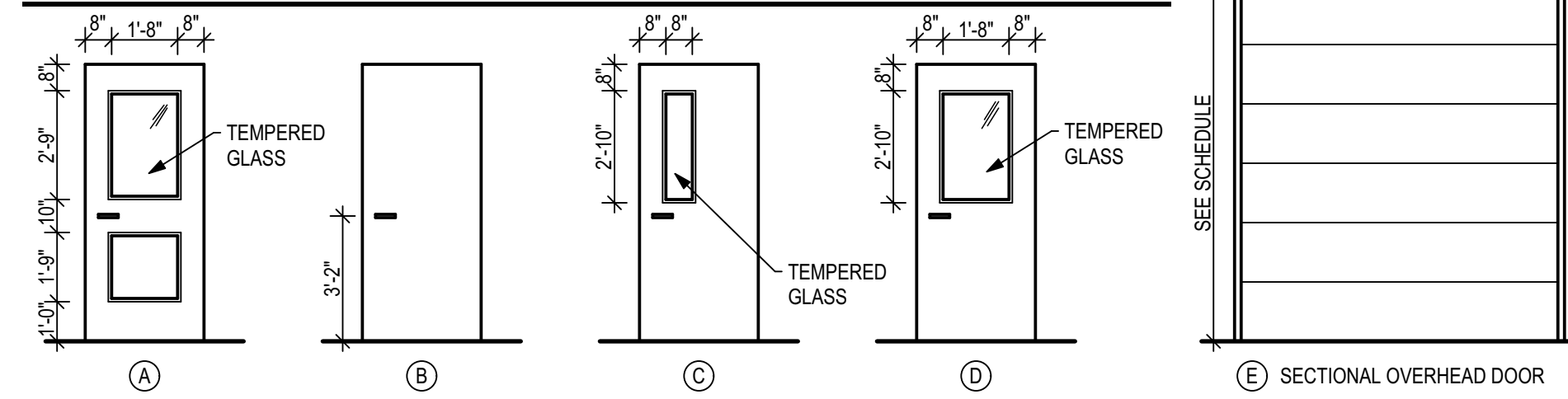
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DOOR SCHEDULE

MARK	DOOR				FRAME		FIRE	STC	HARDWARE	COMMENTS	
	W	No.	H	TYPE	FINISH	MATL TYPE					
C100A	6'-0"	PAIR	7'-0"	A	ALUM	ALUM	A		1.0		
C100B	6'-0"	PAIR	7'-0"	A	ALUM	ALUM	A		2.0		
C101A	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	12.0		
C101B	3'-0"	SINGLE	7'-0"	C	PLAM	HM			18.0		
C102	3'-0"	SINGLE	7'-0"	A	ALUM	ALUM	B		4.0		
C102A	3'-0"	SINGLE	7'-0"	D	PLAM	HM			15.0		
C103	3'-0"	SINGLE	7'-0"	B	HM-G	HM-G			6.0		
C104	3'-0"	SINGLE	7'-0"	B	HM-G	HM-G			6.0		
C105	3'-0"	SINGLE	7'-0"	B	PLAM	HM		20M	11.0		
C106	3'-0"	SINGLE	7'-0"	B	PLAM	HM			19.0		
C107	3'-0"	SINGLE	7'-0"	D	PLAM	HM		20M	19.0		
C108	3'-0"	SINGLE	7'-0"	B	PLAM	HM		20M	15.0		
C110	3'-0"	SINGLE	7'-0"	B	HM	HM			18.0		
C111	3'-6"	SINGLE	7'-0"	B	HM-G	HM-G			5.0		
C112	3'-0"	SINGLE	7'-0"	D	PLAM	HM			17.0		
C113A	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	12.0		
C113B	3'-0"	SINGLE	7'-0"	C	PLAM	HM			23.0	DOUBLE ACTING	
C113C	3'-0"	SINGLE	7'-0"	B	PLAM	HM			21.0	DOUBLE ACTING	
C113D	6'-0"	PAIR	7'-0"	A	ALUM	ALUM	C		3.0		
C115A	3'-0"	SINGLE	7'-0"	C	HM-G	HM-G			5.0		
C115B	16'-0"	SINGLE	12'-0"	E	STEEL	STEEL			30.0	OVERHEAD SECTIONAL DOOR	
C115C	3'-0"	SINGLE	7'-0"	C	HM-G	HM-G					
E104	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E105	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E106	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E107	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E108	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E109	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E110	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E111	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E112	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E113	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E114	3'-0"	SINGLE	7'-0"	D	PLAM	HM		20M	13.0		
E115	3'-0"	SINGLE	7'-0"	B	PLAM	HM			20.0		
E116	3'-0"	SINGLE	7'-0"	B	PLAM	HM		20M	14.0		
E117	3'-0"	NONE	7'-0"	B	HM	HM			13.0		
E117	3'-0"	SINGLE	7'-0"	D	PLAM	HM		20M	13.0		
E118	6'-0"	PAIR	7'-0"	B	HM	HM		45M	10.0		
E119A	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E119B	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E119C	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E119D	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E120A	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E120B	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E120C	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E120D	3'-0"	NONE	7'-0"	N/A	N/A	HM				CASED OPENING	
E121	3'-0"	SINGLE	7'-0"	C	PLAM	HM		20M	13.0		
E122	3'-0"	SINGLE	7'-0"	B	PLAM	HM			18.0		
E200	6'-0"	PAIR	7'-0"	D	PLAM	HM			25.0	EXISTING DOOR, RE: TECHNOLOGY	
E201	6'-0"	PAIR	7'-0"	B	PLAM	HM	E	29.0 (ALT 8.0)		EXISTING DOOR, RE: TECHNOLOGY, BID ALT #6 (1)	
E202	7'-0"	PAIR	7'-0"	A	HM	HM		9.0		NEW DOOR, RE: TECHNOLOGY, (1)	
E203	7'-0"	PAIR	7'-0"					23.0		EXISTING DOOR, RE: TECHNOLOGY	
E204	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E205	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E206	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E207	3'-0"	SINGLE	7'-0"					25.0		EXISTING DOOR, RE: TECHNOLOGY	
E208	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E209	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E210	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E211	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E212	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E213	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
E214	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H100	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H101	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H102	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H103	3'-0"	SINGLE	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H104	6'-0"	PAIR	7'-0"	A	WOOD	HM	D	8.0		NEW DOOR, RE: TECHNOLOGY, (1)	
H105	6'-0"	PAIR	7'-0"	A	WOOD	HM	D	8.0		NEW DOOR, RE: TECHNOLOGY, (1)	
H106	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H107	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H108	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H109	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H110	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H111	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H112	4'-0"	SINGLE	7'-0"					25.0		EXISTING DOOR, RE: TECHNOLOGY	
H113	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H114	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H115	6'-0"	PAIR	7'-0"					24.0		EXISTING DOOR, AUDIBLE ALARM	
H116	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
H117	3'-0"	SINGLE	7'-0"					25.0		EXISTING DOOR, RE: TECHNOLOGY	
H118	3'-0"	SINGLE	7'-0"					25.0		EXISTING DOOR, RE: TECHNOLOGY	
H119	7'-0"	PAIR	7'-0"					24.0		EXISTING DOOR, AUDIBLE ALARM	
M100	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M101	3'-0"	SINGLE	7'-0"					22.0		EXISTING DOOR, RE: TECHNOLOGY	
M102	6'-0"	PAIR	7'-0"	A	WOOD	HM	D	7.0		NEW DOOR, RE: TECHNOLOGY, (1)	
M103	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M104	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M105	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M106	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M107	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M108	4'-0"	SINGLE	7'-0"					25.0		EXISTING DOOR, RE: TECHNOLOGY	
M109	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M110	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M111	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M112	3'-0"	SINGLE	7'-0"					27.0		EXISTING DOOR, RE: TECHNOLOGY	
M113	3'-0"	SINGLE	7'-0"					27.0		EXISTING DOOR, RE: TECHNOLOGY	
M114	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	
M115	6'-0"	PAIR	7'-0"					26.0		EXISTING DOOR, RE: TECHNOLOGY	

DOOR TYPES



GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE

NOTE: ALL DOORS IN FIRE OR SOUND RATED PARTITIONS SHALL BE RATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASSEMBLY.

OPENING DETAILS REF A7.02 & A7.03

ROOM FINISH SCHEDULE LEGEND:

- ACOUST - 24"x24" ACOUSTICAL LAY-IN TILE
- VACT - 24"x24" VINYL FACED LAY-IN TILE
- CPT - 24"x24" CARPET TILE
- CT - CERAMIC TILE WAINSCOT
- EPOXY - EPOXY
- EX - EXISTING TO REMAIN
- GYP - PT. GYPSUM WALL BOARD
- OPEN - OPEN TO ABOVE
- OFOL - OWNER FURNISHED & INSTALLED
- PT - PAINTED
- PLY - PLYWOOD
- REFINISH - REFINISH
- SE CONC - SEALED CONCRETE
- VINYL - VINYL WALL BASE
- EXP - EXPOSED TO BOTTOM OF STRUCTURE
- FRP - FRP WALL PANELS

ROOM FINISH SCHEDULE COMMENTS:

- (1) CLEAN EXISTING FLOORS, WALL TILE AND GROUT.
- (2) ACCENT COLOR FOR WALL.

ROOM FINISH NOTES:

A. REFER TO 4/A7.07, 5/A7.07 FOR FLOOR TRANSITIONS

DOOR SCHEDULE COMMENTS:

- (1) ATTACK RESISTANT DOORS AND FRAMES

ROOM FINISH SCHEDULE

NO	NAME	FLOOR	BASE	WALLS				CEILING		COMMENTS
				NORTH	SOUTH	EAST	WEST	HT	MTL	
C100	CORR	VCT	VINYL	GYP	GYP	GYP	GYP	9'-0"	ACOUST	
C101	COSMETOLOGY CLASSROOM	VCT	VINYL	GYP	GYP	GYP	GYP	9'-0"	ACOUST	
C102	COSMETOLOGY STUDIO	VCT	VINYL	GYP	GYP (2)	GYP	GYP	9'-0"	ACOUST	
C102A	FACIAL	VCT	VINYL	GYP	GYP	GYP (2)	GYP	9'-0"	ACOUST	
C103	ELEC	S.CONC	VINYL	GYP	GYP	GYP	GYP	9'-0"	OPEN	
C104	IDF	VCT	VINYL	GYP	GYP	GYP	GYP	9'-0"	V.ACOUST	
C105	CUST / MECH	S.CONC	VINYL	GYP	GYP	GYP	GYP	9'-0"	V.ACOUST	
C106	DISPENS	VCT	VINYL	GYP	GYP	GYP	GYP	9'-0"	ACOUST	
C107	RR	CT	CT	CT	CT	CT	CT	8'-0"	EP GYP	
C108	RR	CT	CT	CT	CT	CT	CT	8'-0"	EP GYP	
C110	DRY STORAGE	QT	QT	FRP	FRP	FRP	FRP	9'-0"	V.ACOUST	
C111	CULINARY ARTS KITCHEN	QT	QT	FRP	FRP	FRP	FRP	9'-0"	V.ACOUST	
C112	OFFICE	VCT	VINYL	GYP	GYP	GYP	GYP	9'-0"	ACOUST	
C113	CLASSROOM	LVT	VINYL	GYP	GYP	GYP	GYP	VARIOUS	GYP/ ACOUST	
C115	SHOP	S.CONC	CMU	CMU	CMU	CMU	CMU	8'-0"	OPEN	
E100	CORRIDOR	EX (1)	VINYL	EX (1)	PAINT EX			8'-0"	ACOUST (1)	
E101	CORRIDOR	EX (1)	VINYL	PAINT EX	PAINT EX	PAINT EX	PAINT EX	8'-0"	ACOUST (1)	
E102	CORRIDOR	EX (1)	VINYL	PAINT EX	EX (1)			8'-0"	ACOUST (1)	
E103	CORRIDOR	EX (1)	VINYL	PAINT EX (2)		PAINT EX	PAINT EX	8'-0"	ACOUST	
E104	CLASSROOM	VCT	VINYL	PAINT EX (2)	GYP	PAINT EX	PAINT EX	9'-0"	ACOUST	
E105	CLASSROOM	VCT	VINYL	PAINT EX (2)	GYP	PAINT EX	PAINT EX	9'-0"	ACOUST	
E106	CLASSROOM	VCT	VINYL	PAINT EX (2)	GYP	PAINT EX	PAINT EX	9'-0"	ACOUST	
E107	CLASSROOM	VCT	VINYL	PAINT EX (2)	GYP	PAINT EX	PAINT EX	9'-0"	ACOUST	
E108	CLASSROOM	VCT	VINYL	GYP	PAINT EX (2)	GYP	PAINT EX	9'-0"	ACOUST	
E109	CLASSROOM	VCT	VINYL	GYP	PAINT EX (2)	PAINT EX	PAINT EX	9'-0"	ACOUST	
E110	CLASSROOM	VCT	VINYL	GYP	PAINT EX (2)	PAINT EX	PAINT EX	9'-0"	ACOUST	
E111	CLASSROOM	VCT	VINYL	GYP	PAINT EX (2)	PAINT EX	PAINT EX	9'-0"	ACOUST	
E112	CLASSROOM	VCT	VINYL	GYP	PAINT EX (2)	PAINT EX	PAINT EX	9'-0"	ACOUST	
E113	CLASSROOM	VCT	VINYL	GYP	PAINT EX (2)	PAINT EX	PAINT EX	9'-0"	ACOUST	
E114	NURSE'S SUITE	VCT	VINYL	PAINT EX	GYP	GYP (2)	GYP	9'-0"	ACOUST	
E115	RR	CT	CT	CT	CT	CT	CT	8'-0"	EP GYP	
E116	RR	CT	CT	CT	CT	CT	CT	8'-0"	EP GYP	
E117	COUNSELOR	VCT	VINYL	PAINT EX	GYP / PAINT EX	GYP / PAINT EX	PAINT EX (2)	9'-0"	ACOUST	
E118	MECHANICAL	S.CONC	VINYL	EX	E	GYP / EX	EX	9'-0"	ACOUST	
E119	BOYS RR	CT	CT	CT	CT	CT	CT	8'-0"	V.ACOUST	
E120	GIRL'S RR	CT	CT	CT	CT	CT	CT	8'-0"	V.ACOUST	
E121	INTERVENTION	VCT	VINYL	PAINT EX	GYP	PAINT EX	GYP	9'-0"	ACOUST	
E122	STORAGE	VCT	VINYL	GYP	PA					

GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE
 NOTE: ALL WINDOWS IN FIRE RATED PARTITIONS SHALL BE RATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASSEMBLY.



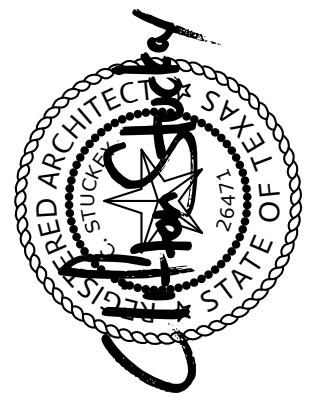
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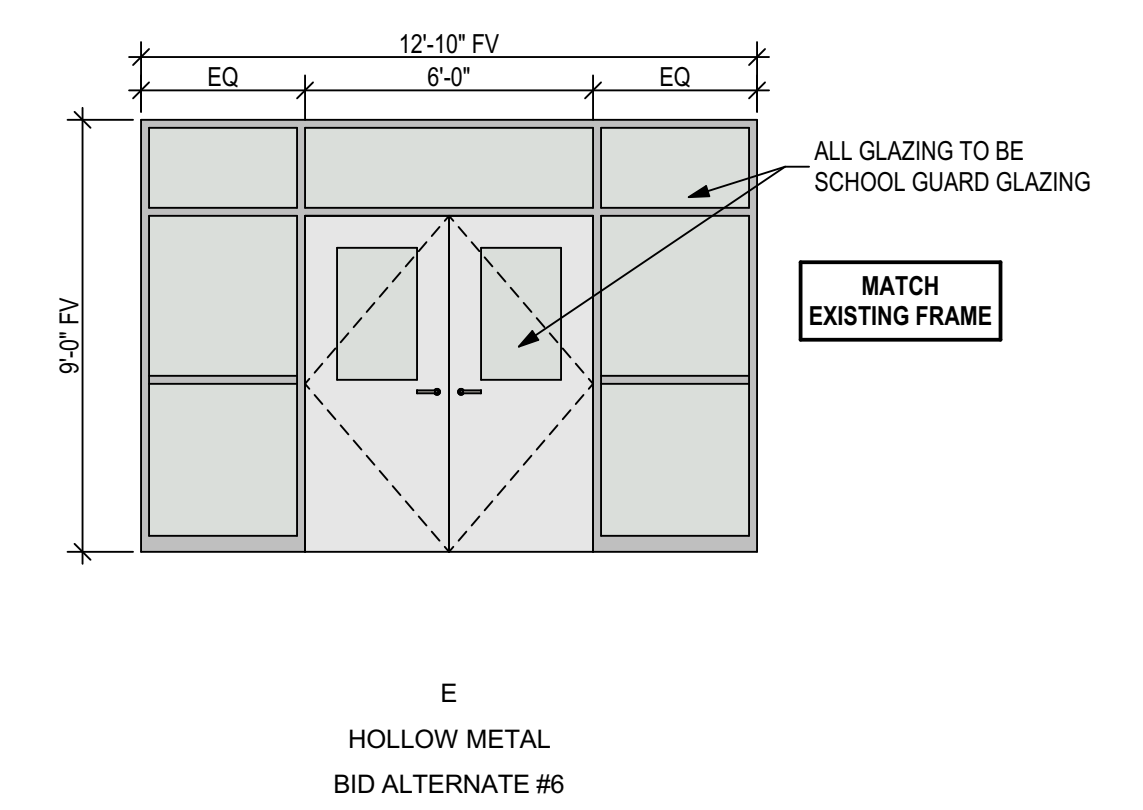
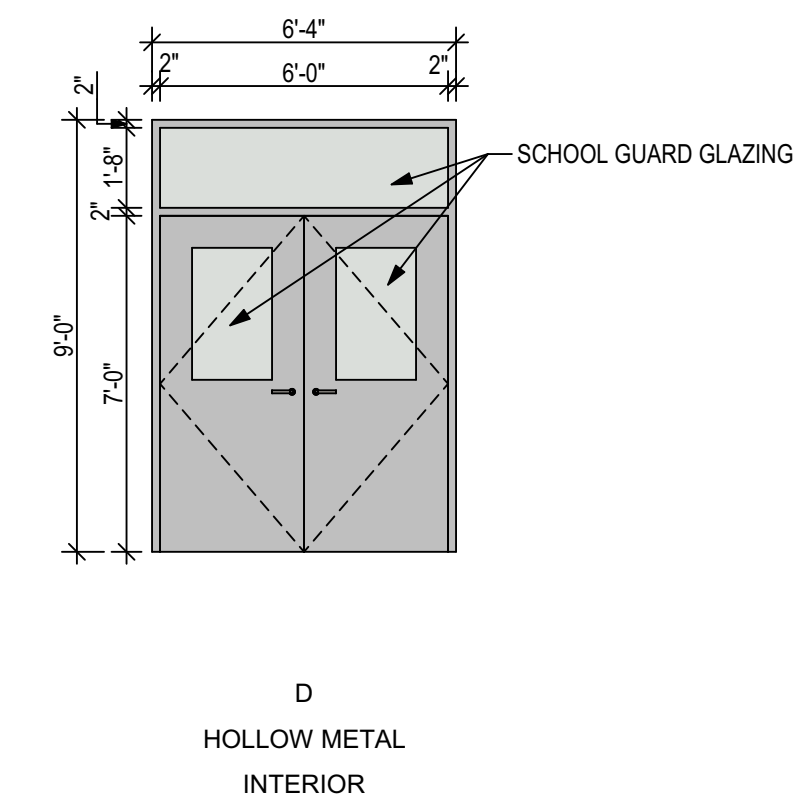
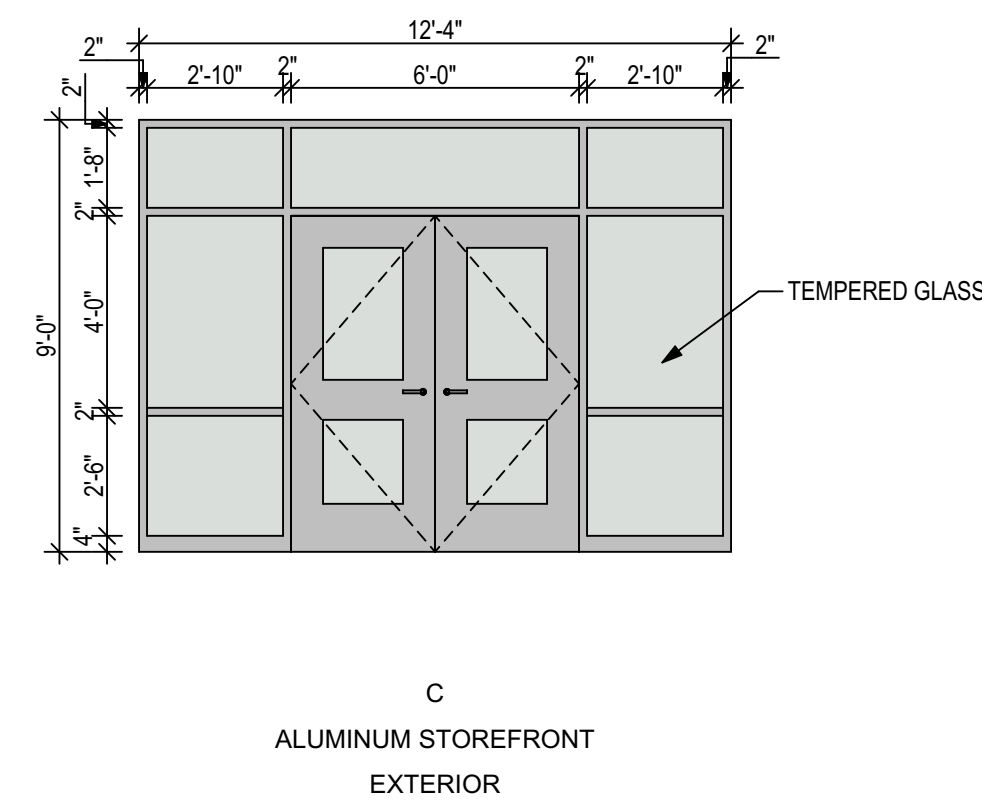
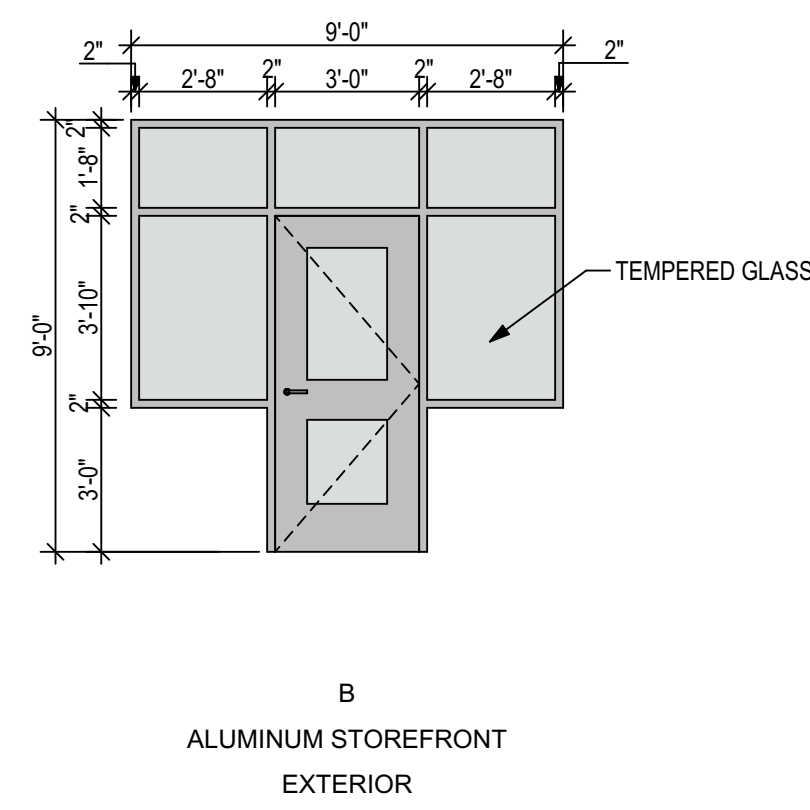
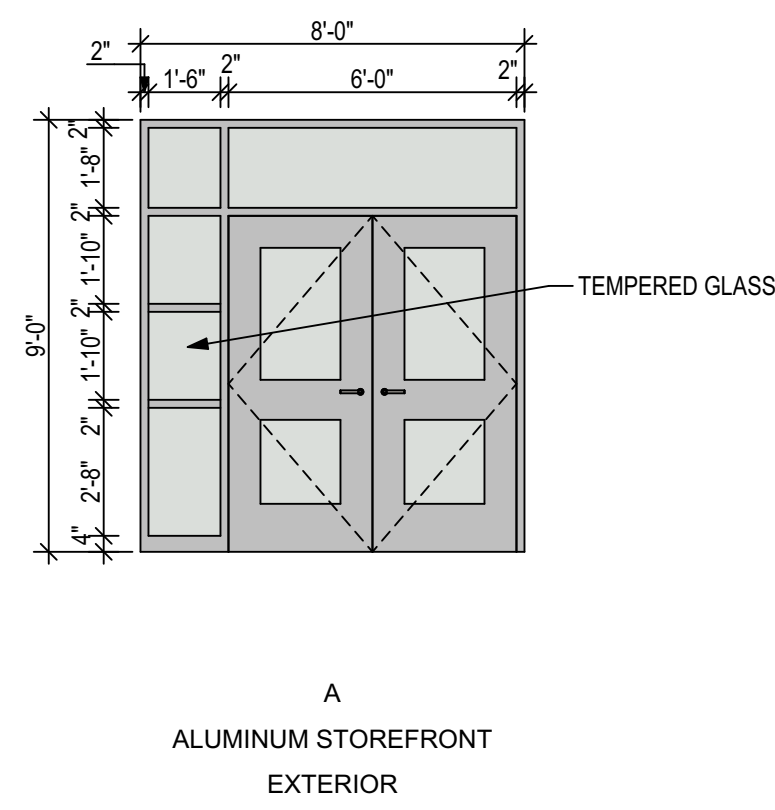
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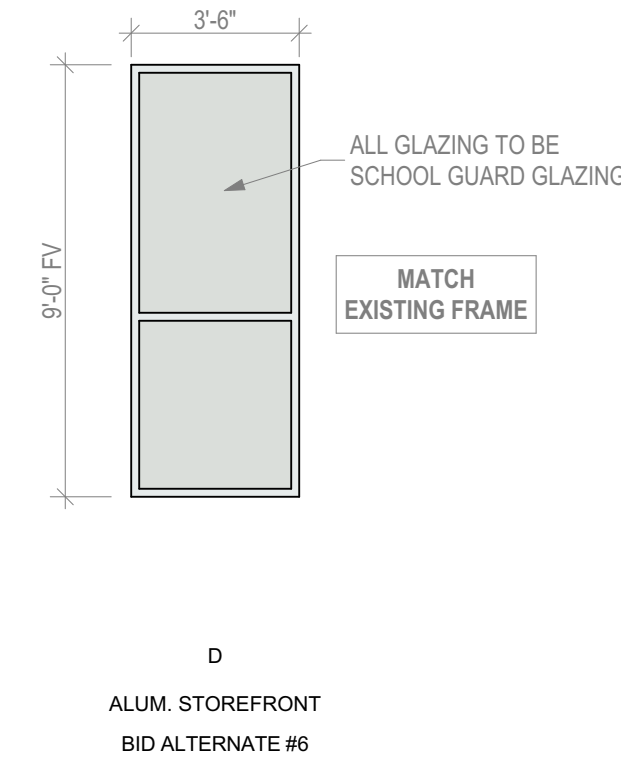
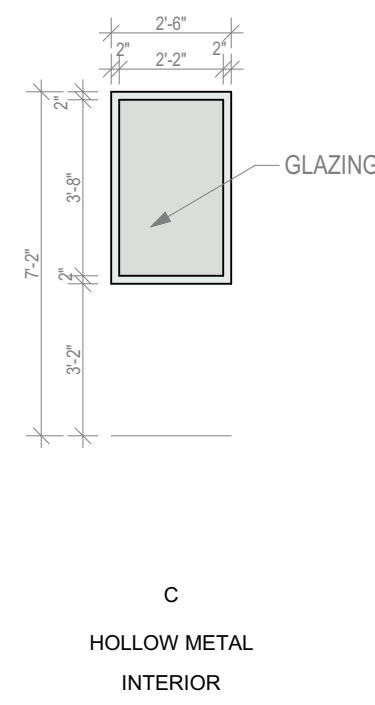
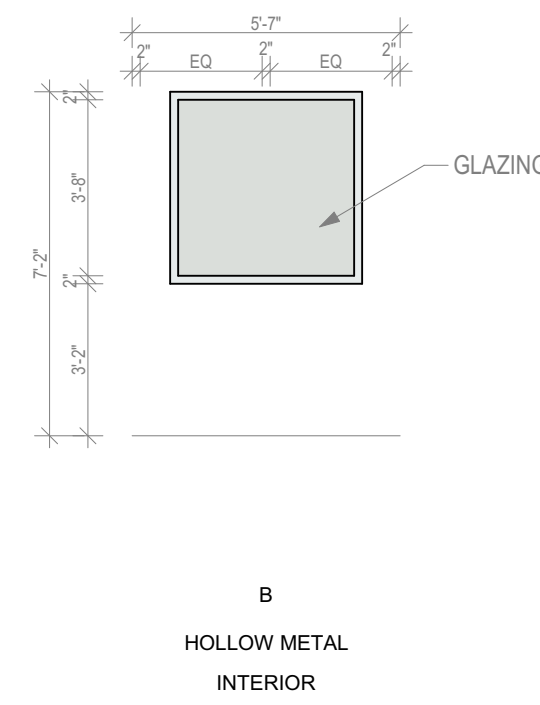
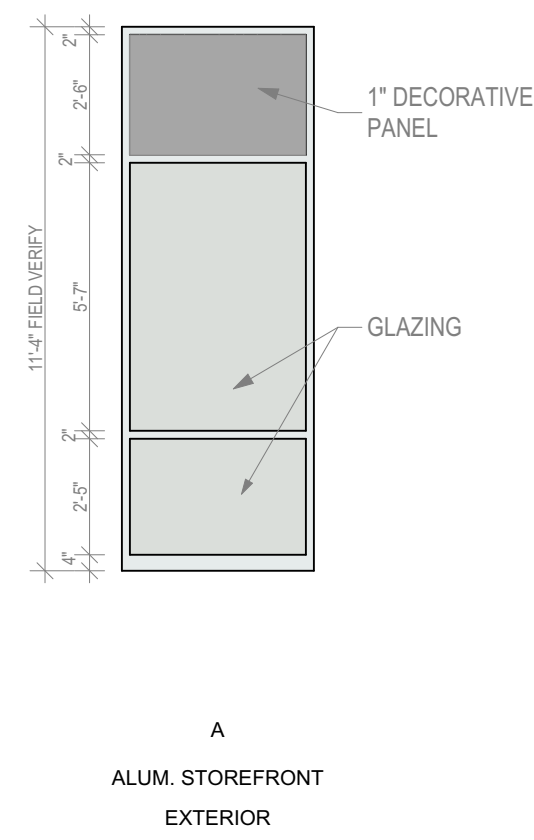


DOOR FRAME TYPES

NOTE: ALL FRAMES ARE SHOWN FROM DOOR SWING SIDE.

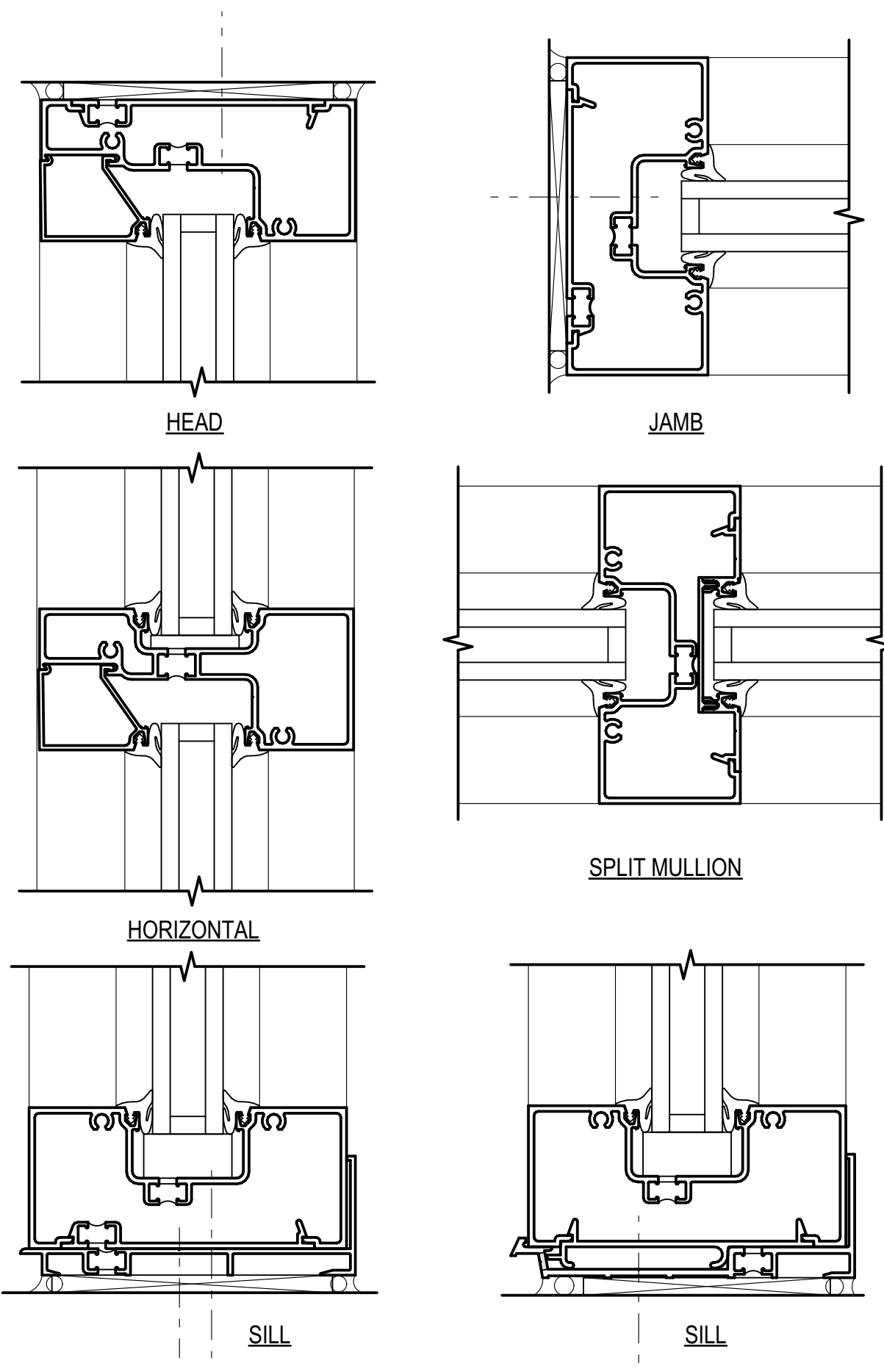


WINDOW TYPES

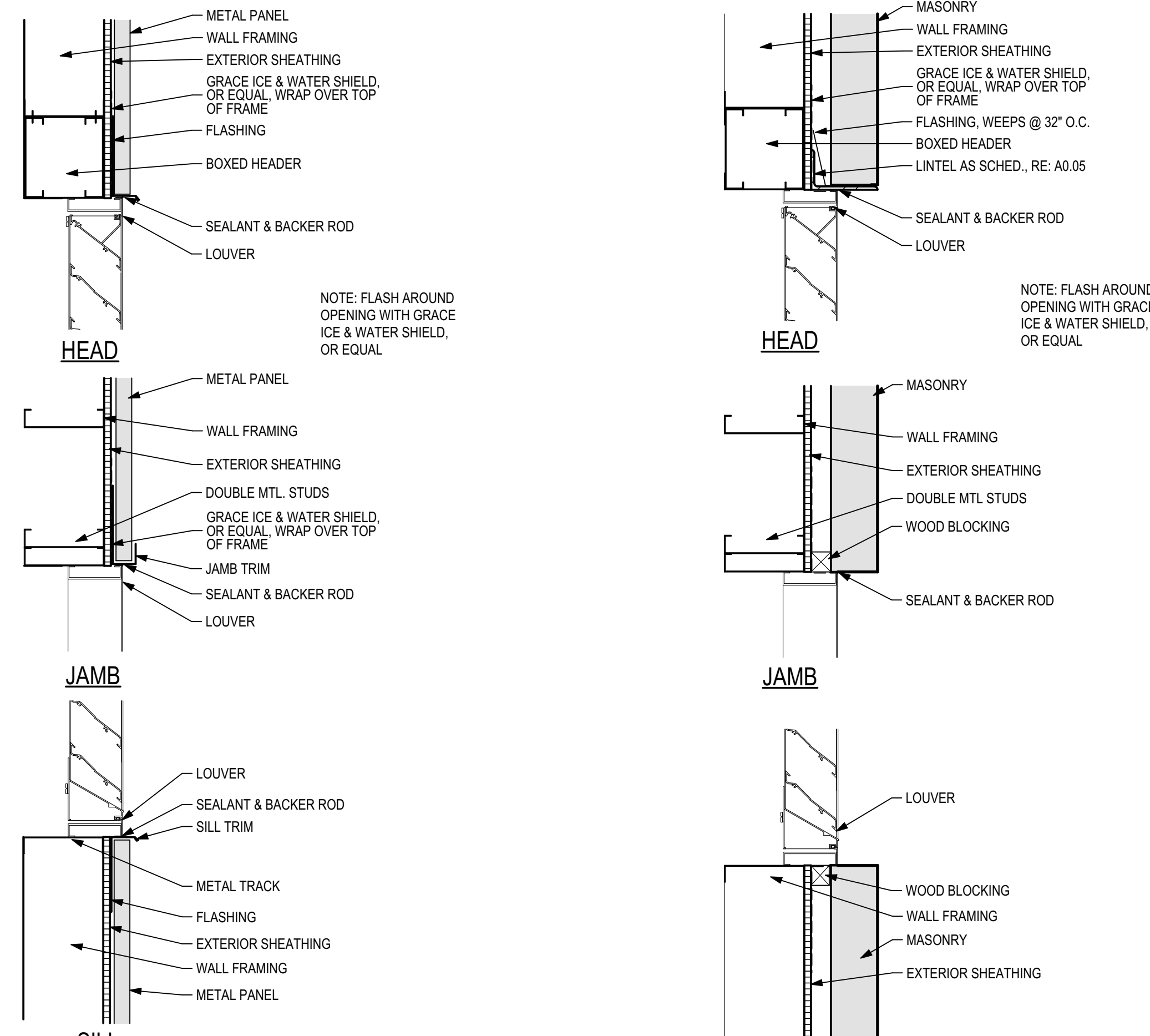


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BOND 2018 PROJECTS
 Brady, Texas
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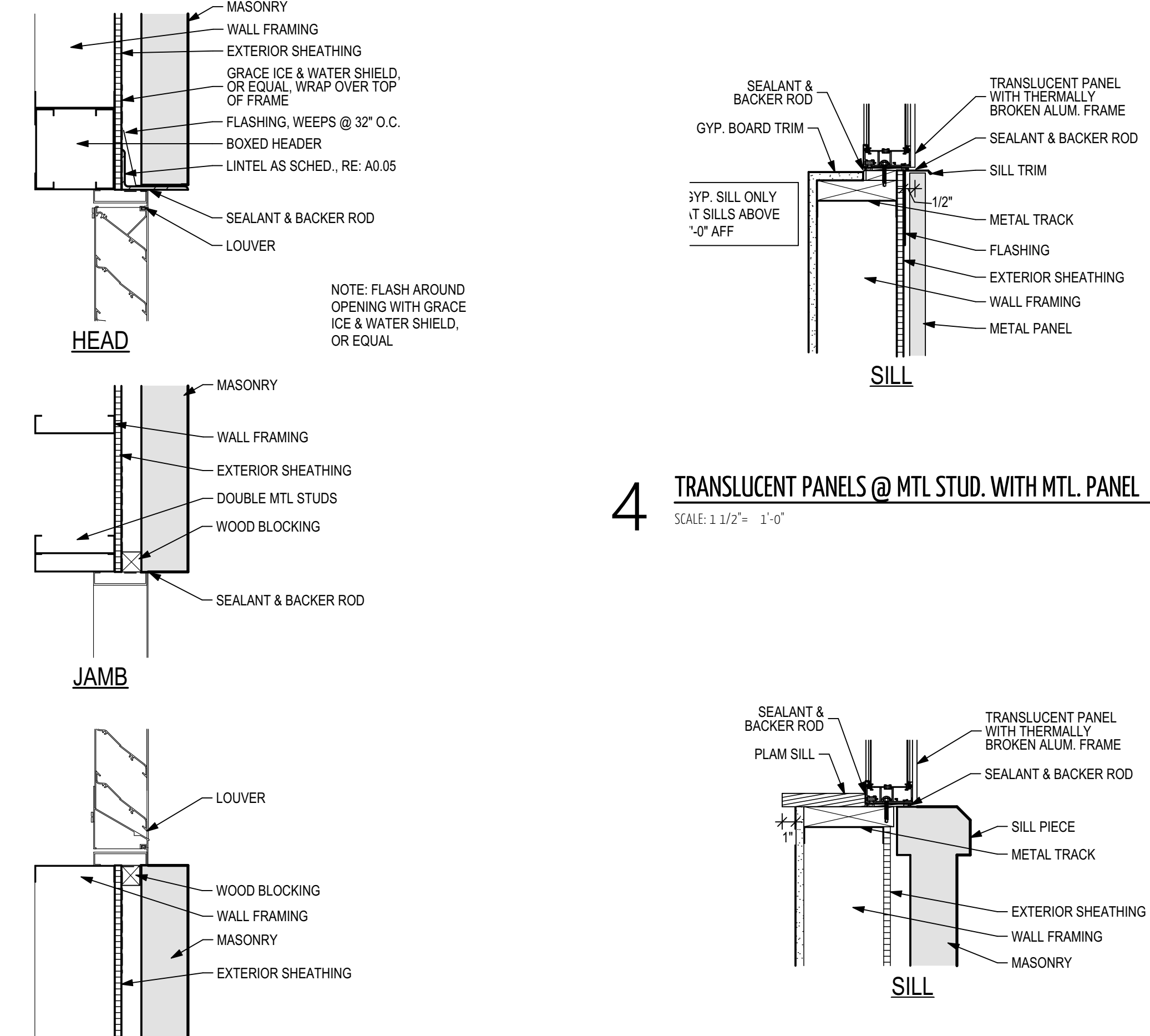
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Project Number	1703
Date:	4/4/2019
Sheet Number	



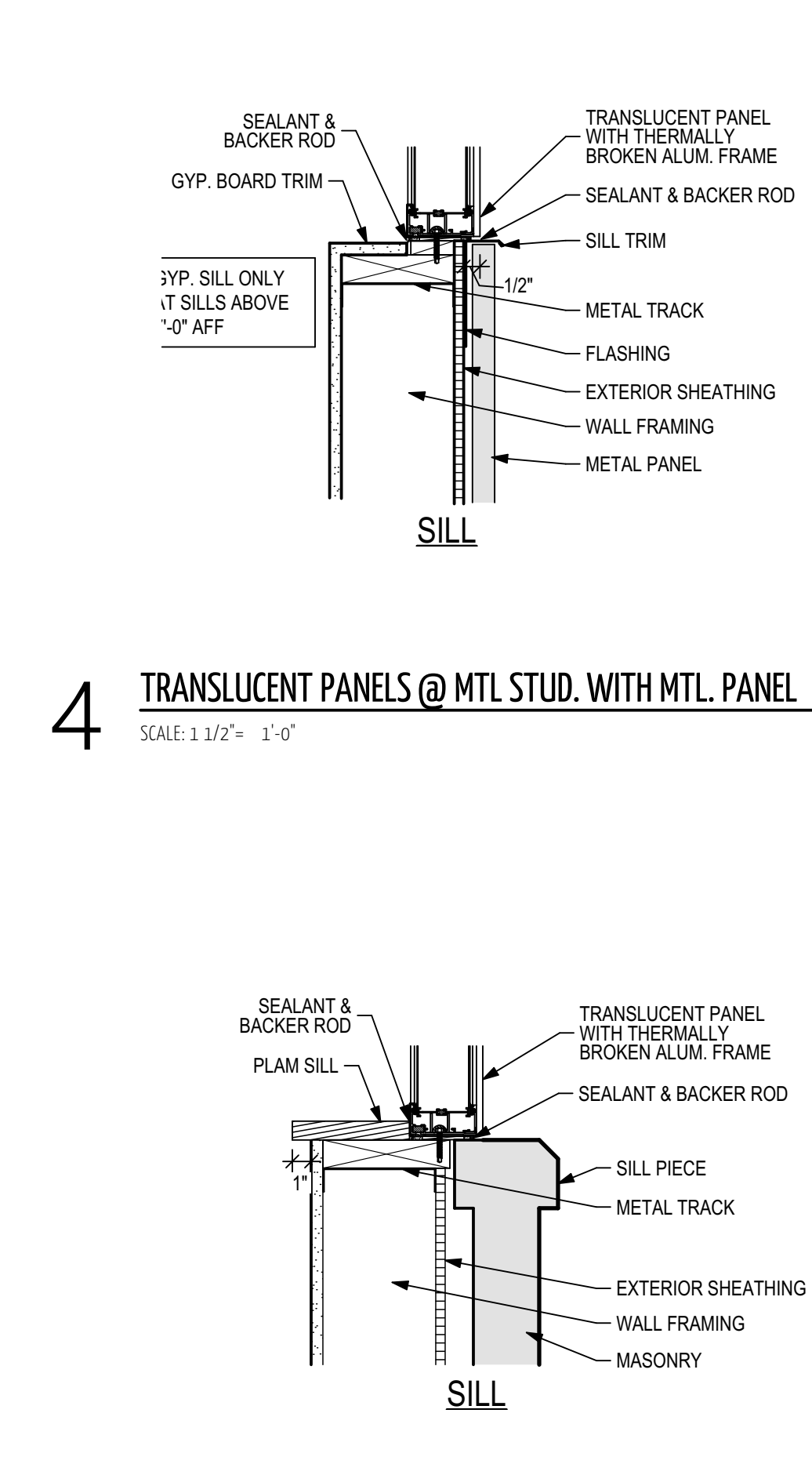
1 TYP. EXTERIOR STOREFRONT
SCALE: 6" = 1'-0"



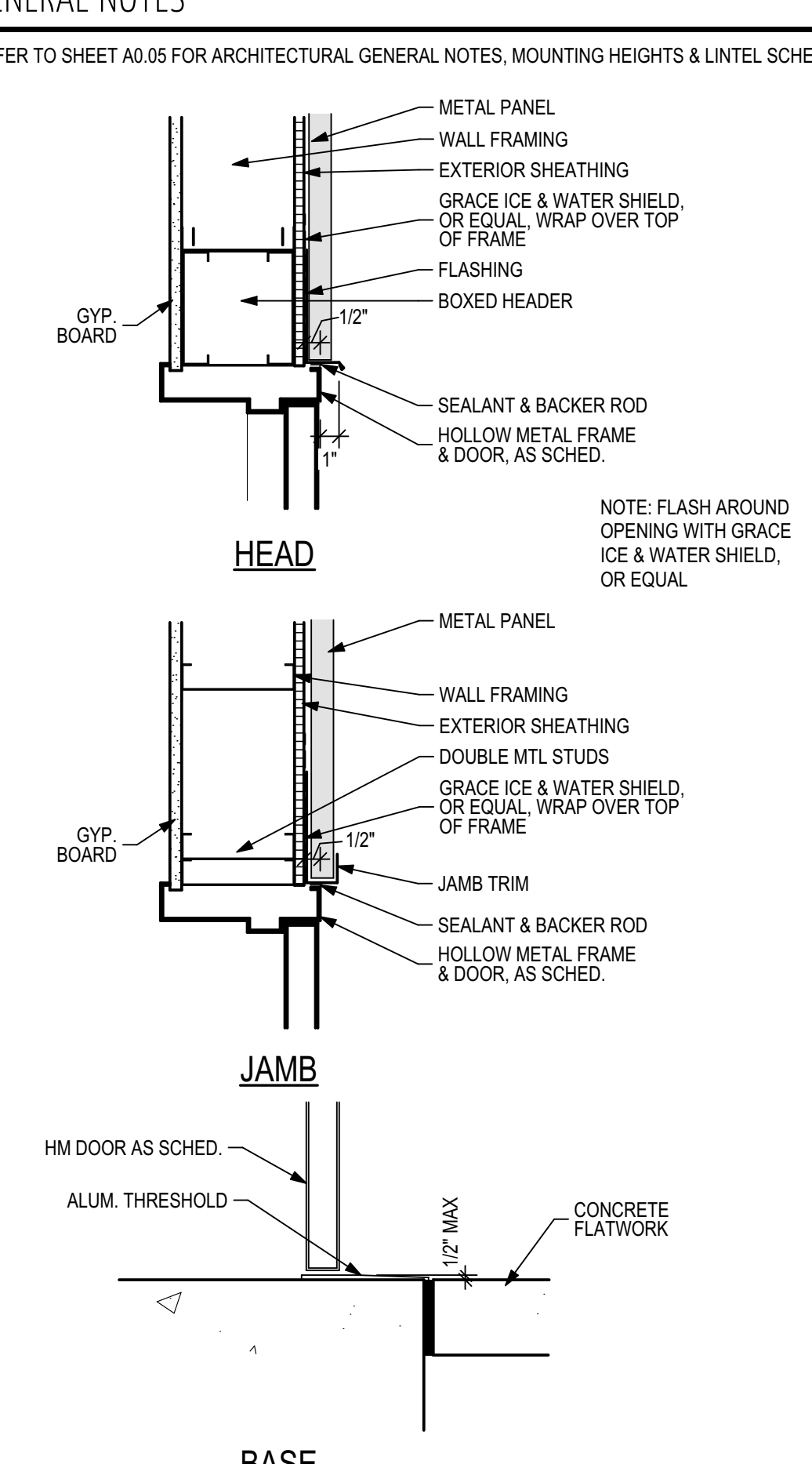
2 LOUVER @ MTL STUD W/ MTL PANEL
SCALE: 1 1/2" = 1'-0"



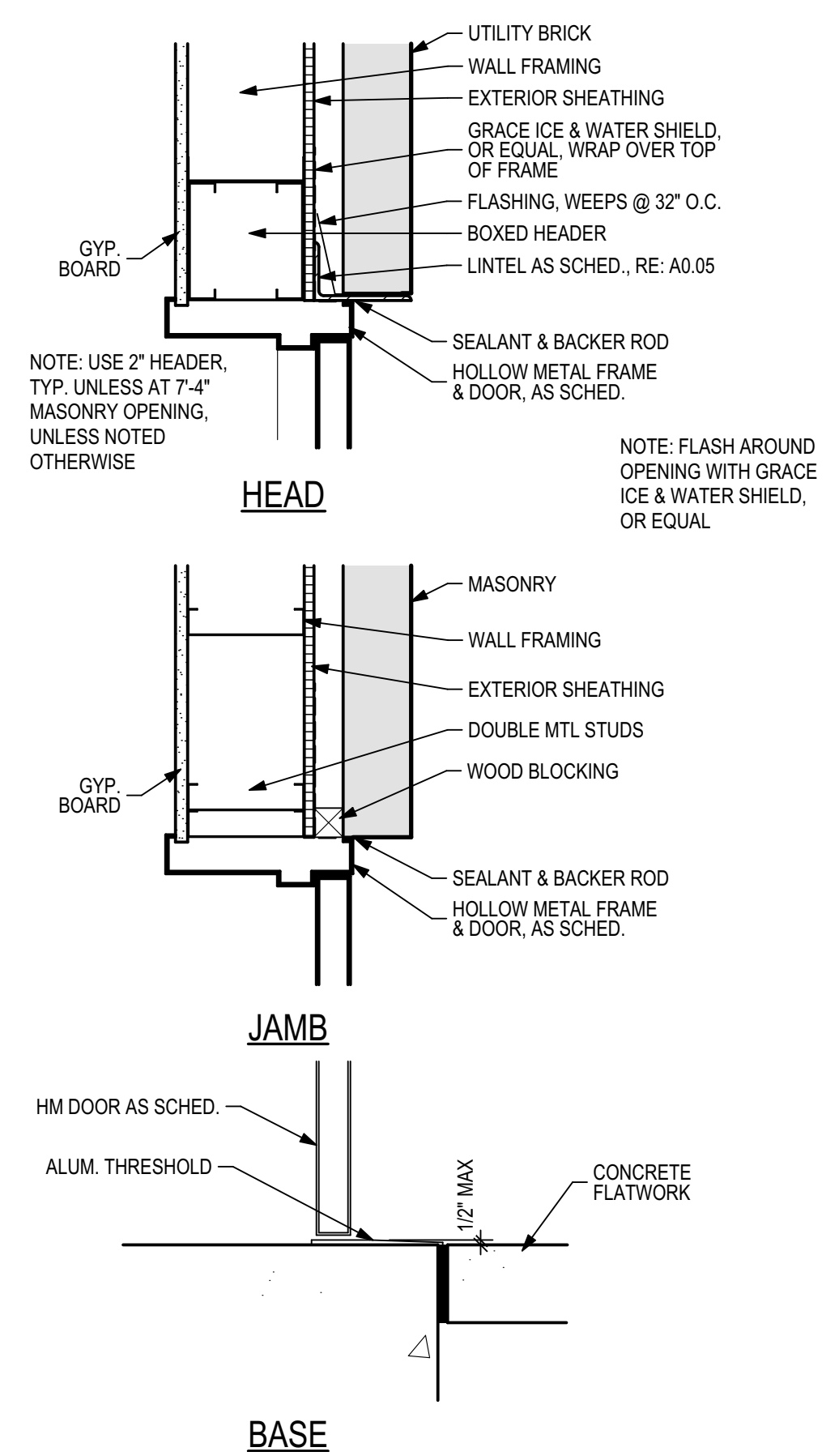
3 LOUVER @ MTL STUD W/ MASONRY
SCALE: 1 1/2" = 1'-0"



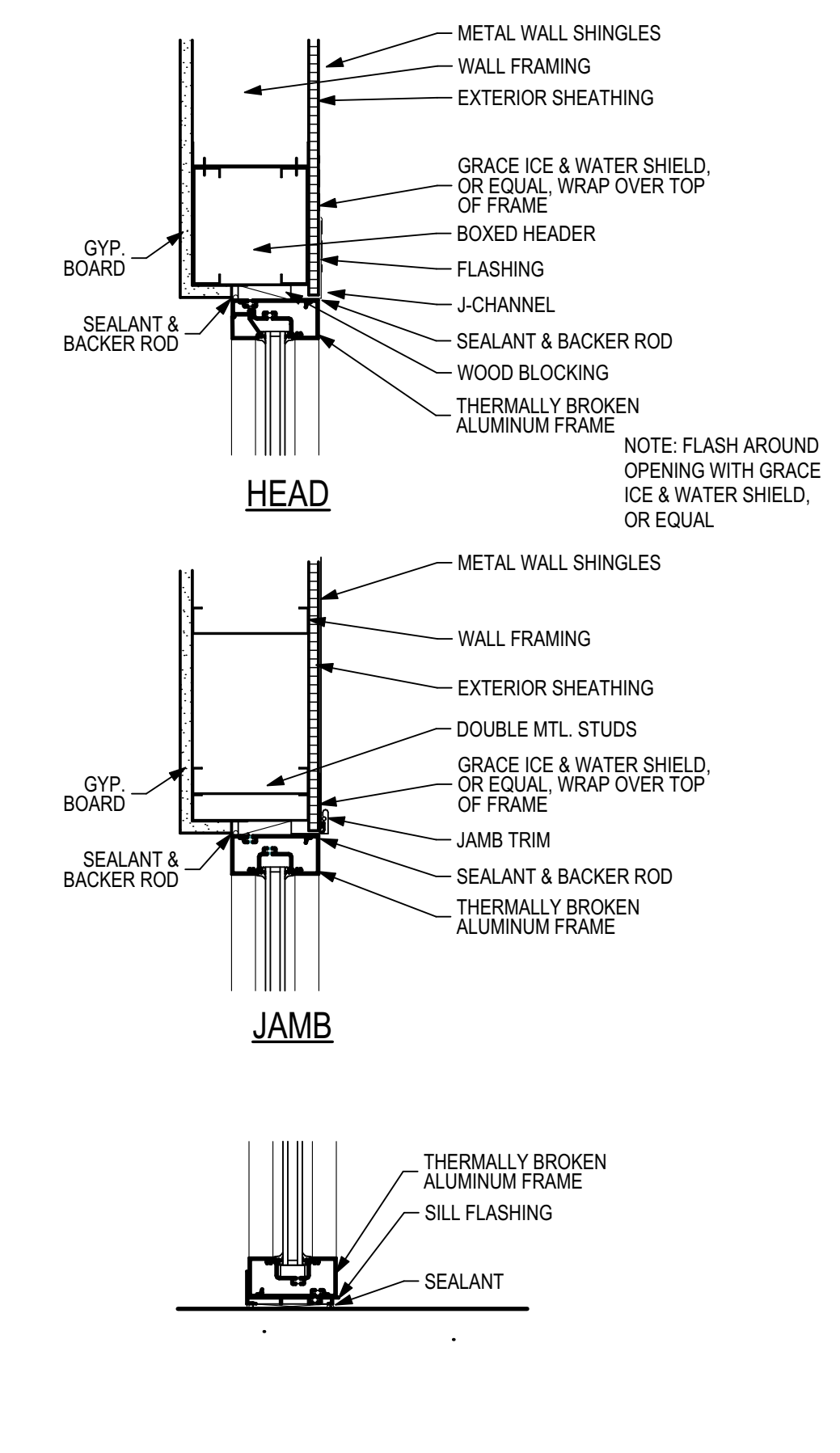
5 TRANSLUCENT PANEL @ MTL STUD W/ MASONRY
SCALE: 1 1/2" = 1'-0"



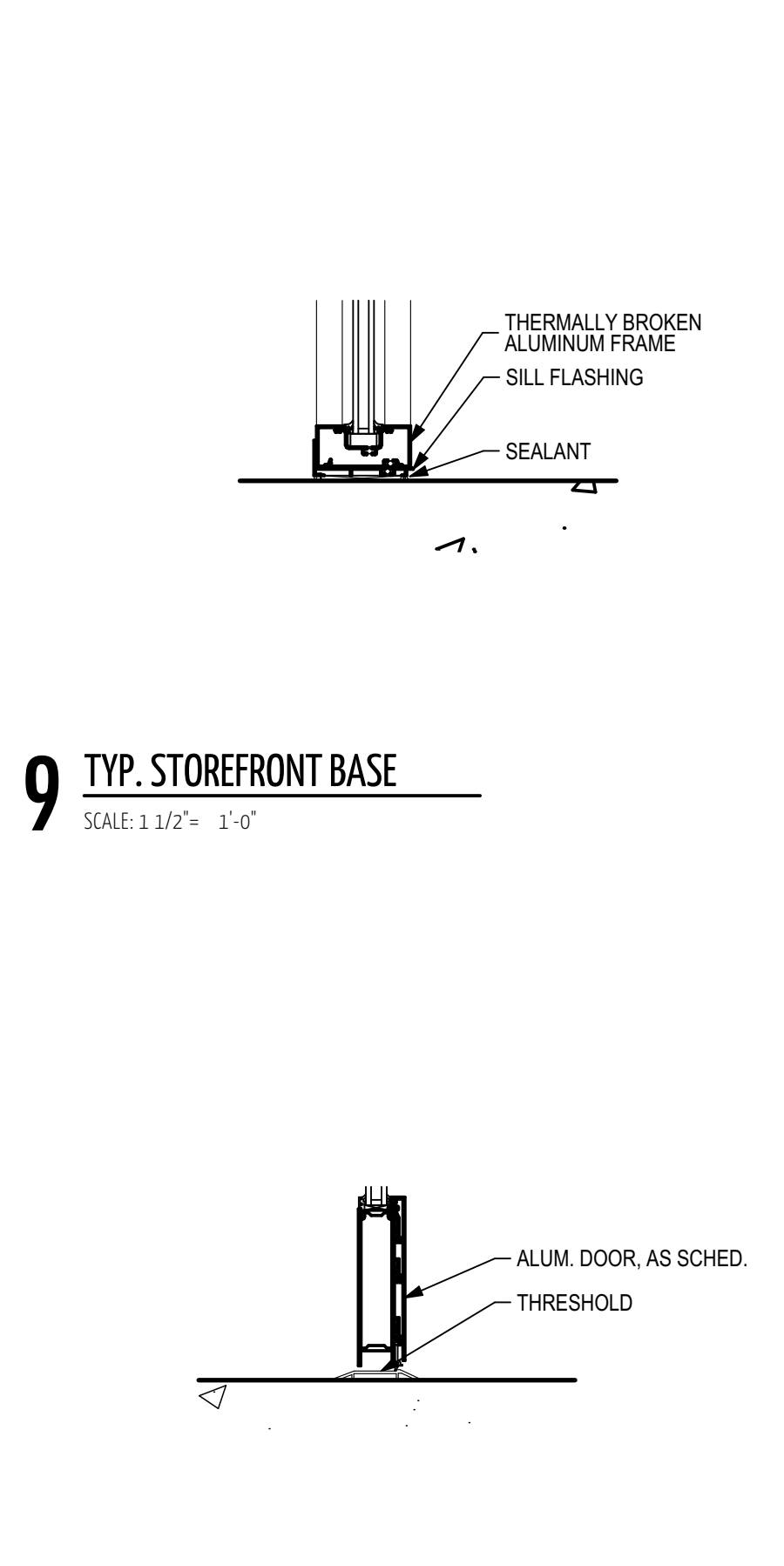
6 HM DOOR @ MTL STUD W/ MTL PANEL
SCALE: 1 1/2" = 1'-0"



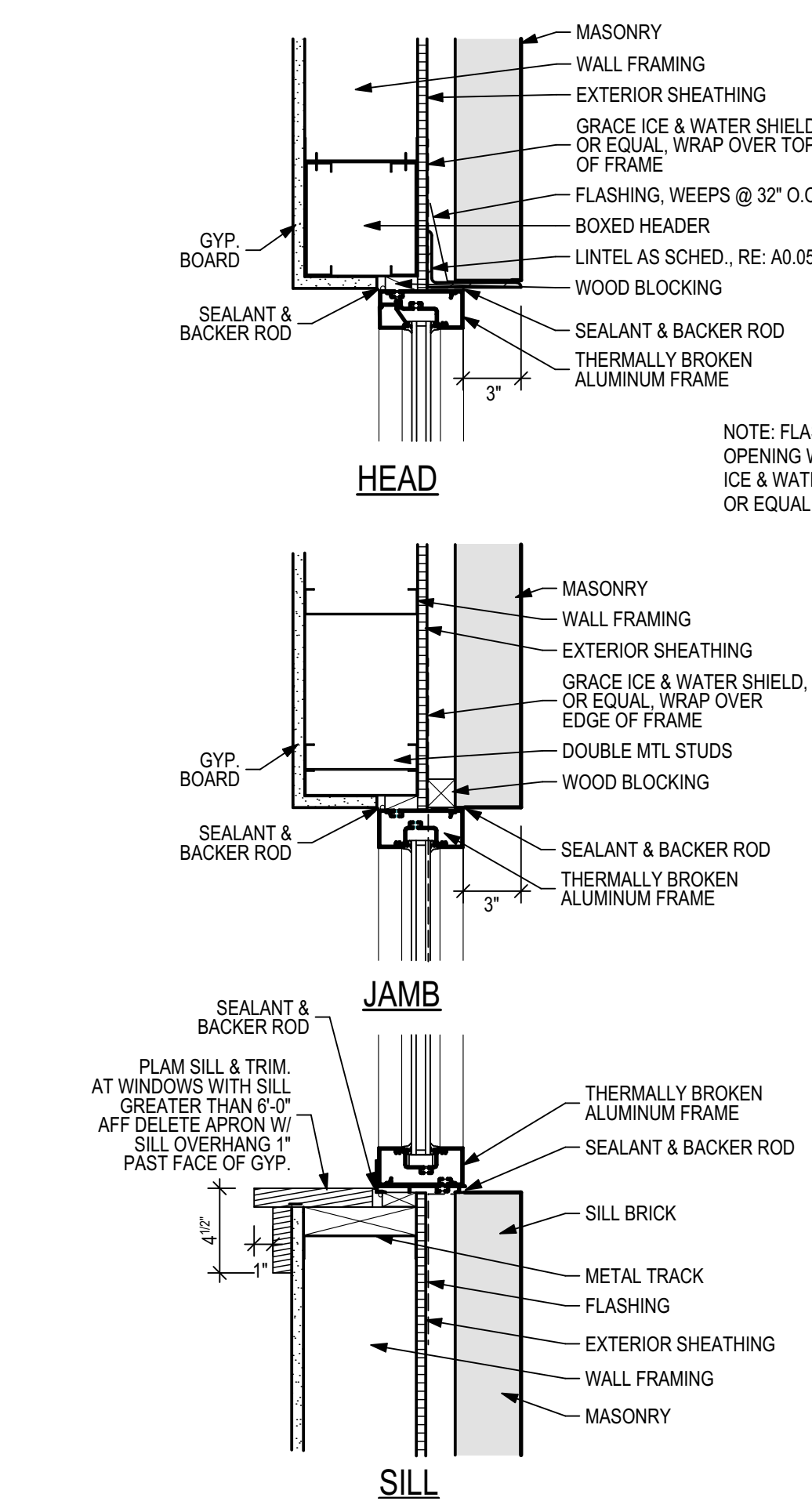
7 HM DOOR @ MTL STUD & MASONRY
SCALE: 1 1/2" = 1'-0"



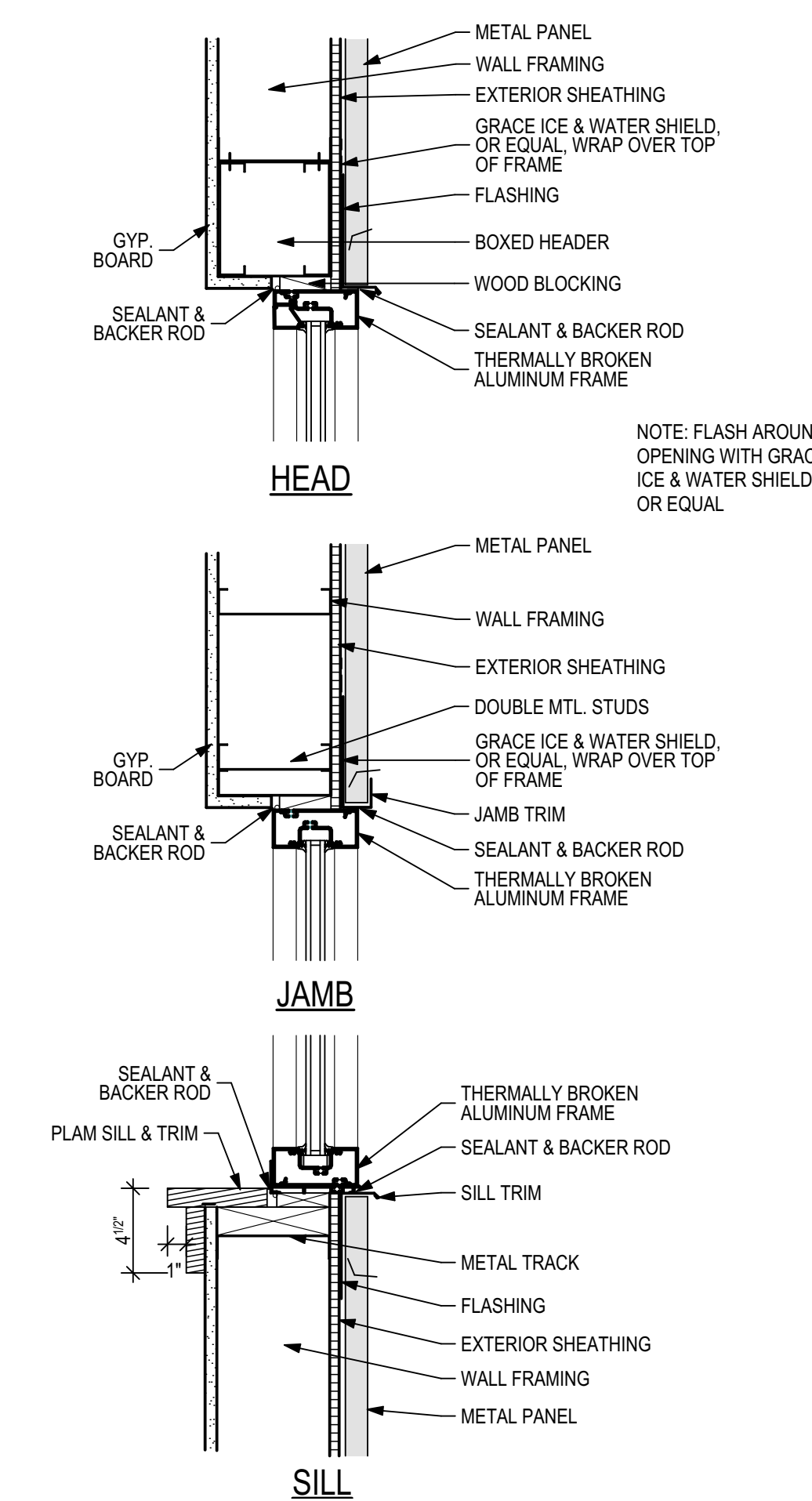
8 ALUM STOREFRONT @ MTL STUD W/ METAL SHINGLES
SCALE: 1 1/2" = 1'-0"



9 TYP. STOREFRONT BASE
SCALE: 1 1/2" = 1'-0"



11 ALUM STOREFRONT @ MTL STUD W/ MASONRY
SCALE: 1 1/2" = 1'-0"



12 ALUM STOREFRONT @ MTL STUD W/ MTL PANEL
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES
REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE

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BOND 2018 PROJECTS
Brady, Texas

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Sheet Number

GENERAL NOTES

REFER TO SHEET A0.05 FOR ARCHITECTURAL GENERAL NOTES, MOUNTING HEIGHTS & LINTEL SCHEDULE



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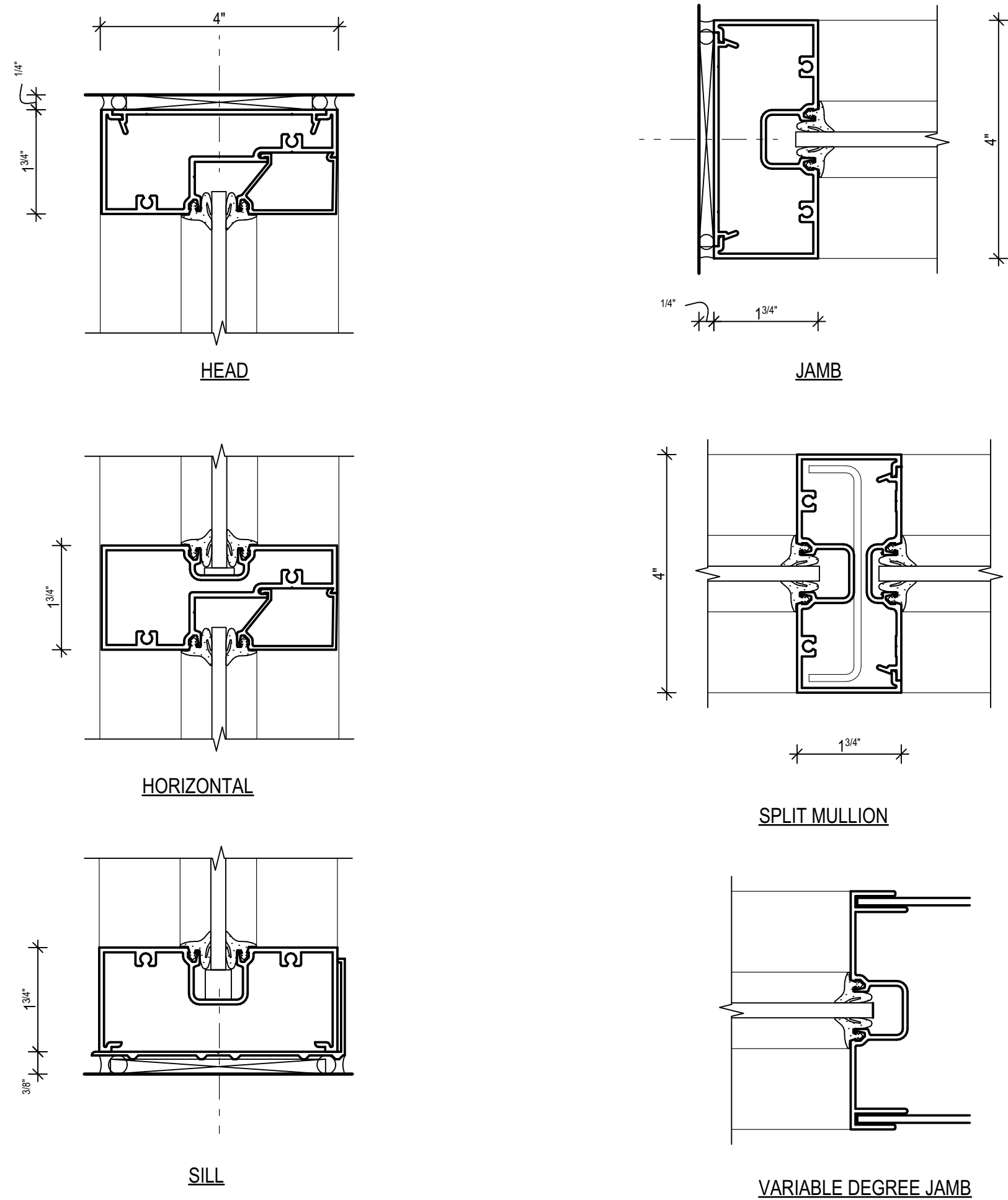
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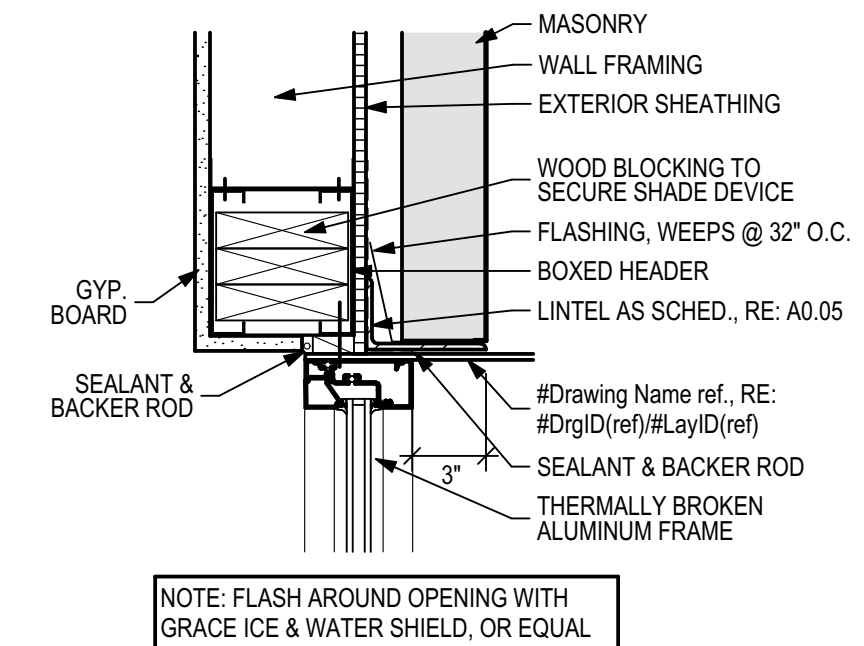
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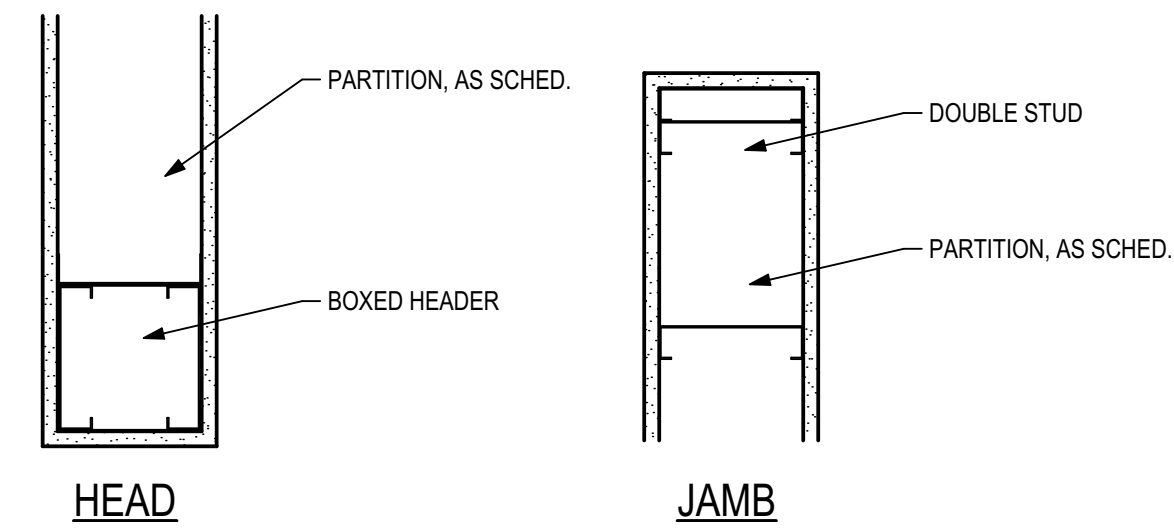
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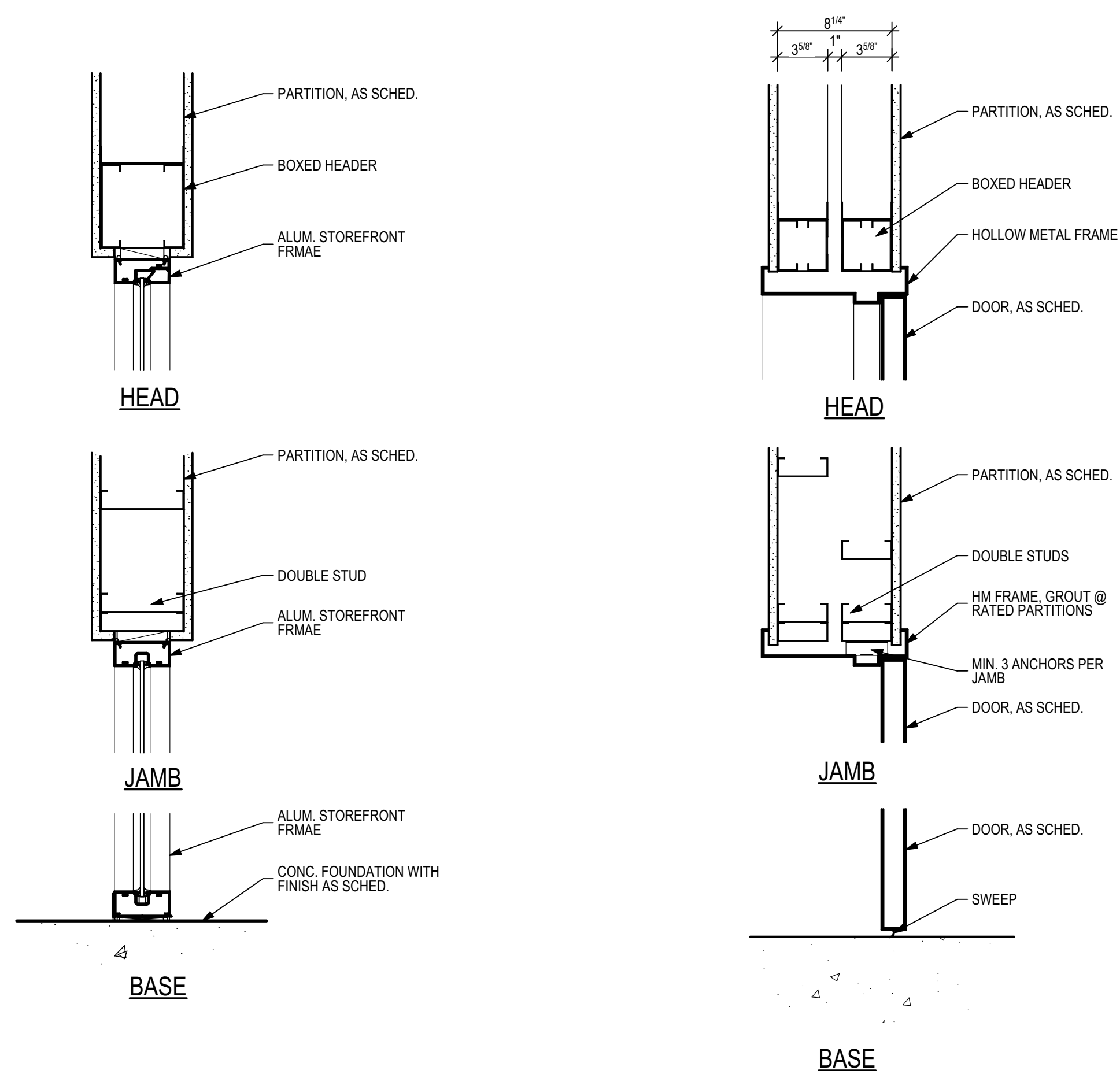
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SCALE: 6" = 1'-0"



2 ALUM. STOREFRONT HEAD W/ SHADE
SCALE: 1 1/2" = 1'-0"

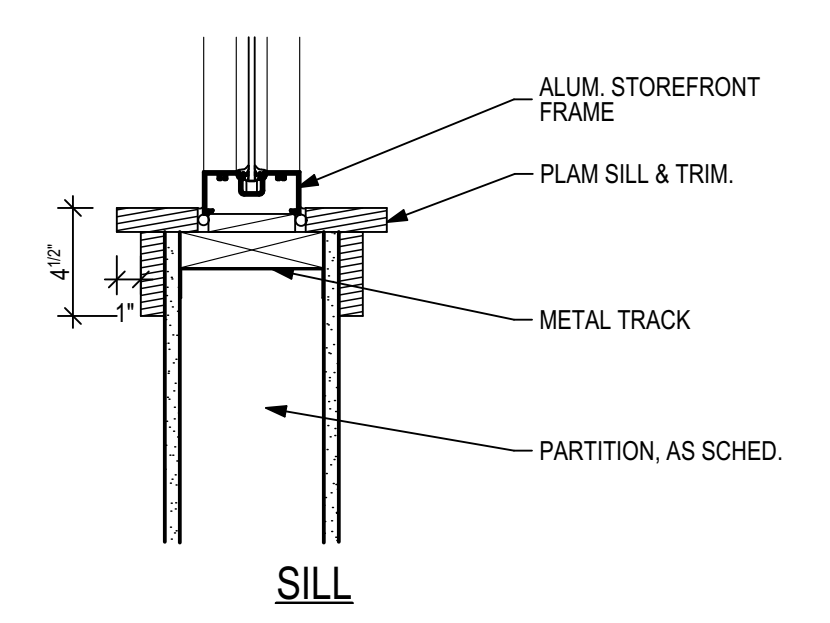


3 CASED OPENING
SCALE: 1 1/2" = 1'-0"

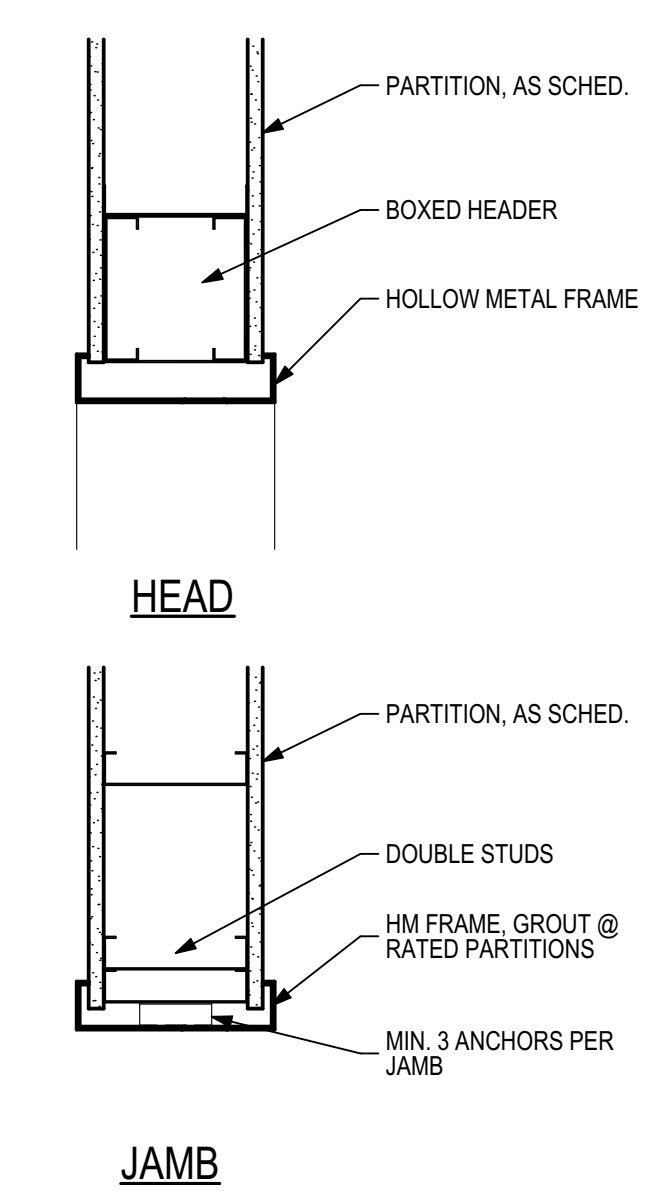


4 ALUM STOREFRONT @ STANDARD PARTITION
SCALE: 1 1/2" = 1'-0"

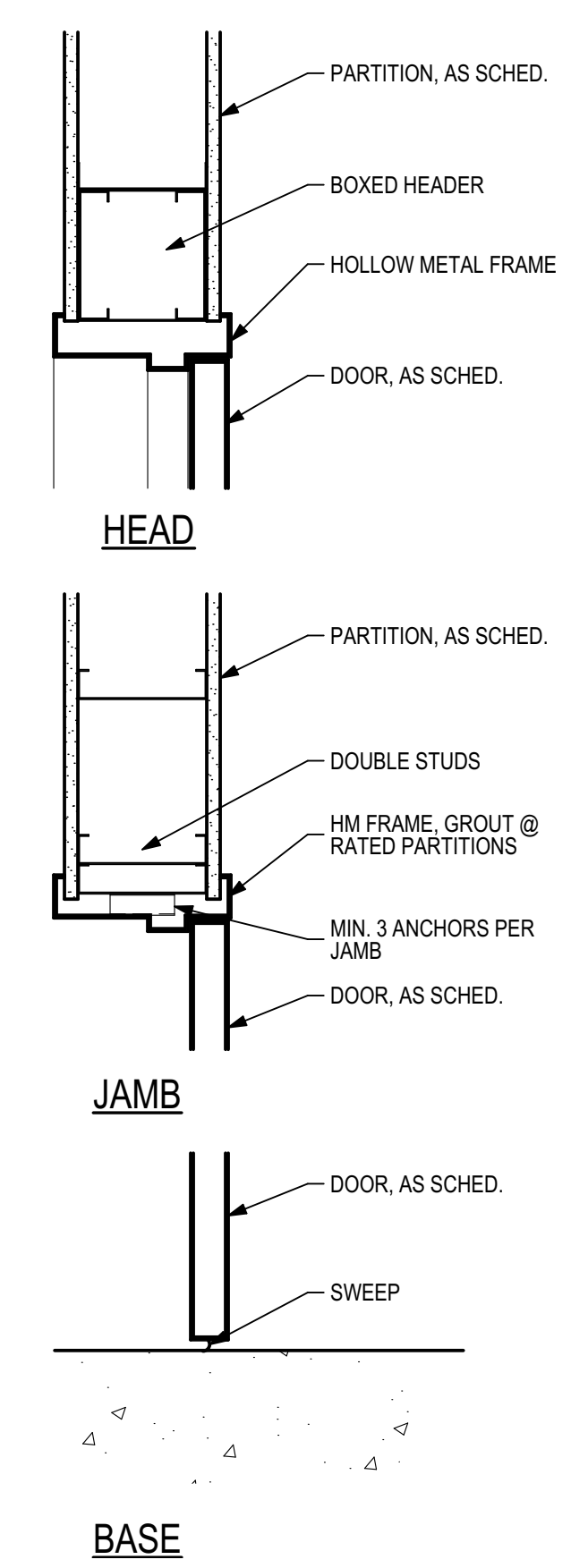
5 HM DOOR @ 64 STC SOUND PARTITION
SCALE: 1 1/2" = 1'-0"



6 ALUM STOREFRONT SILL @ STANDARD PARTITION
SCALE: 1 1/2" = 1'-0"

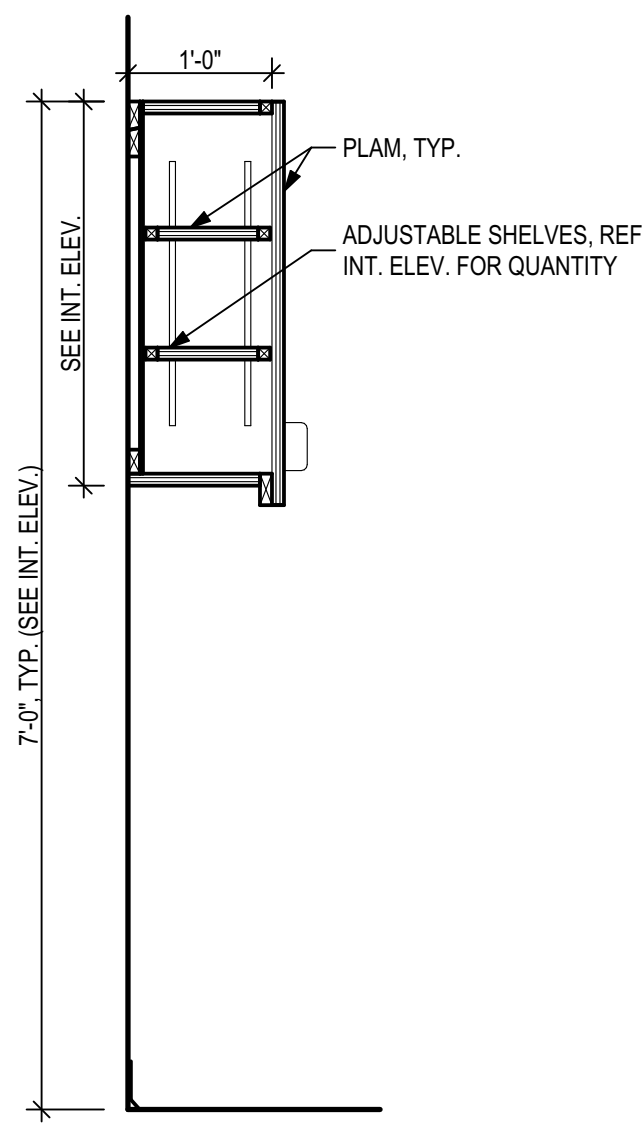


7 HM FRAMED OPENING @ STANDARD PARTITION
SCALE: 1 1/2" = 1'-0"

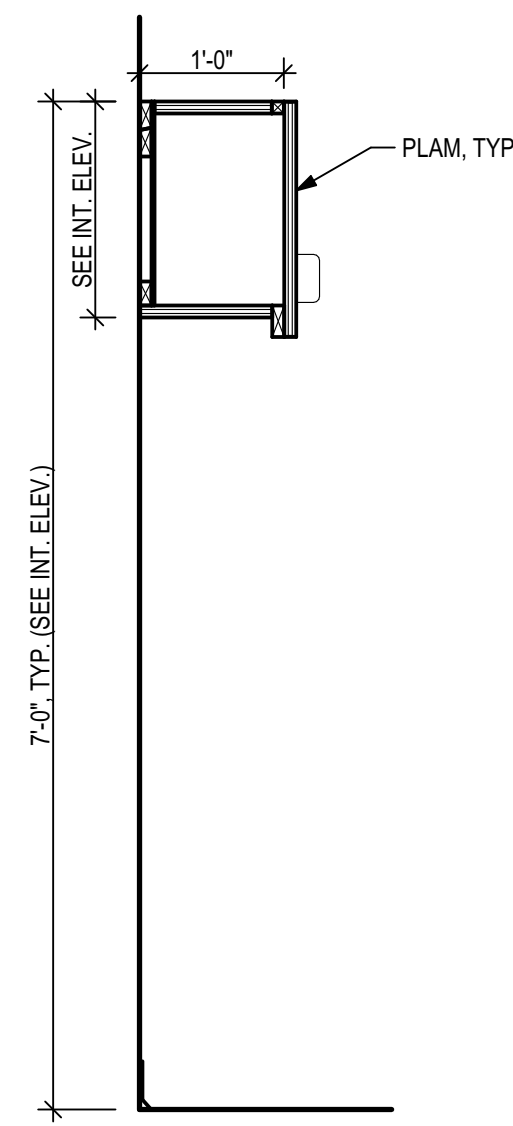


8 HM DOOR @ MTL STUD GYP PARTITION
SCALE: 1 1/2" = 1'-0"

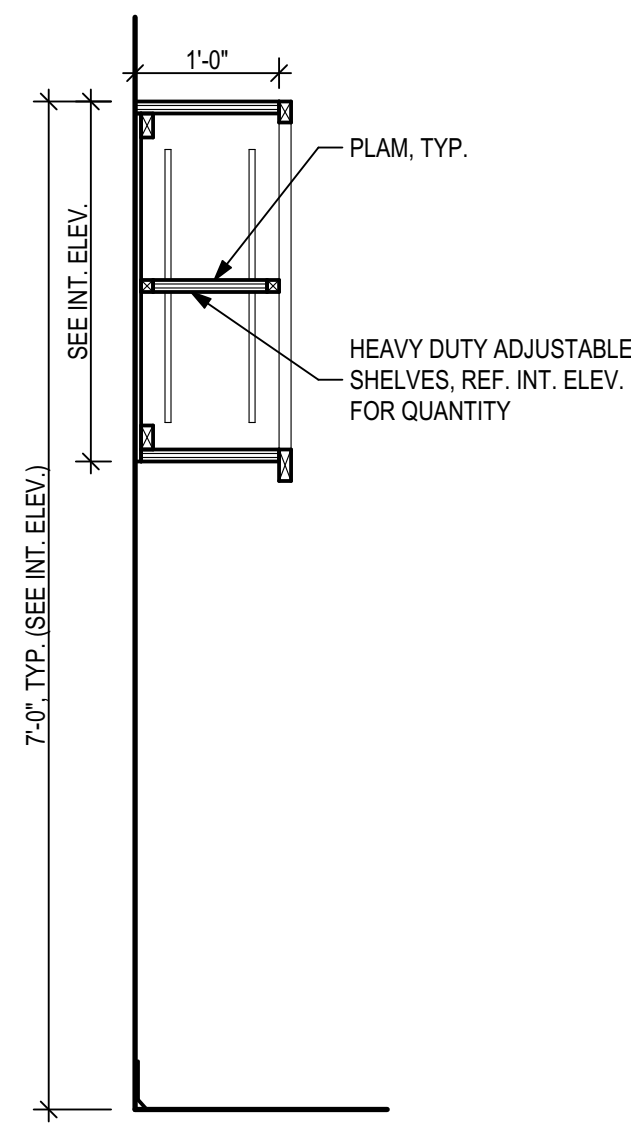
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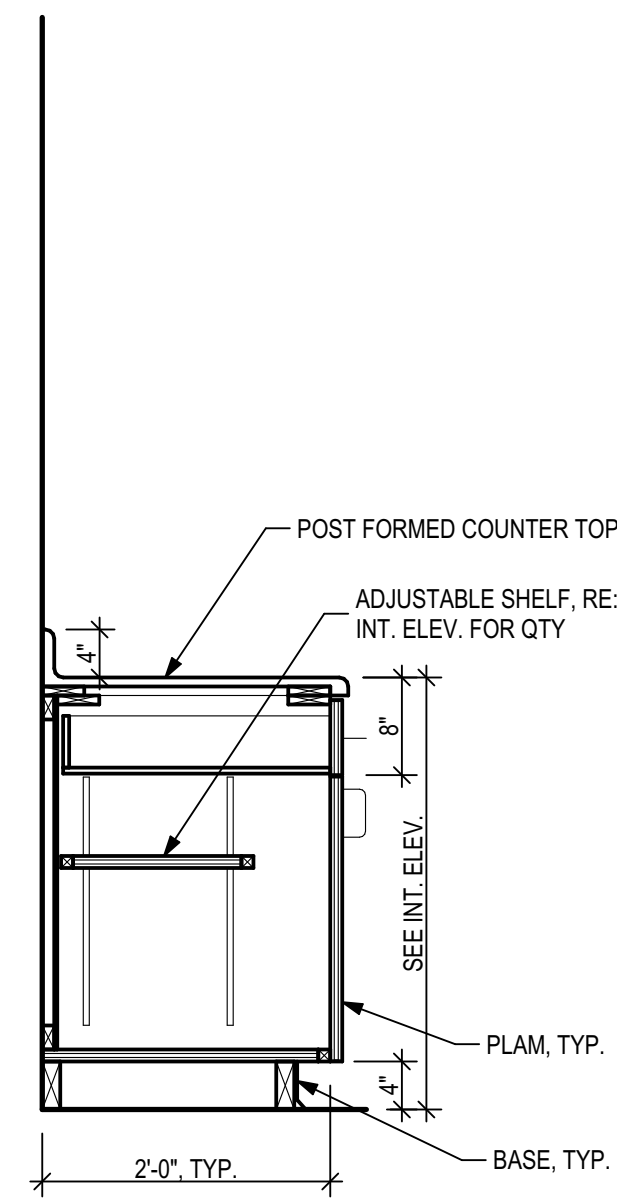
1 UPPER CABINET, TYP.
SCALE: 3/4" = 1'-0"



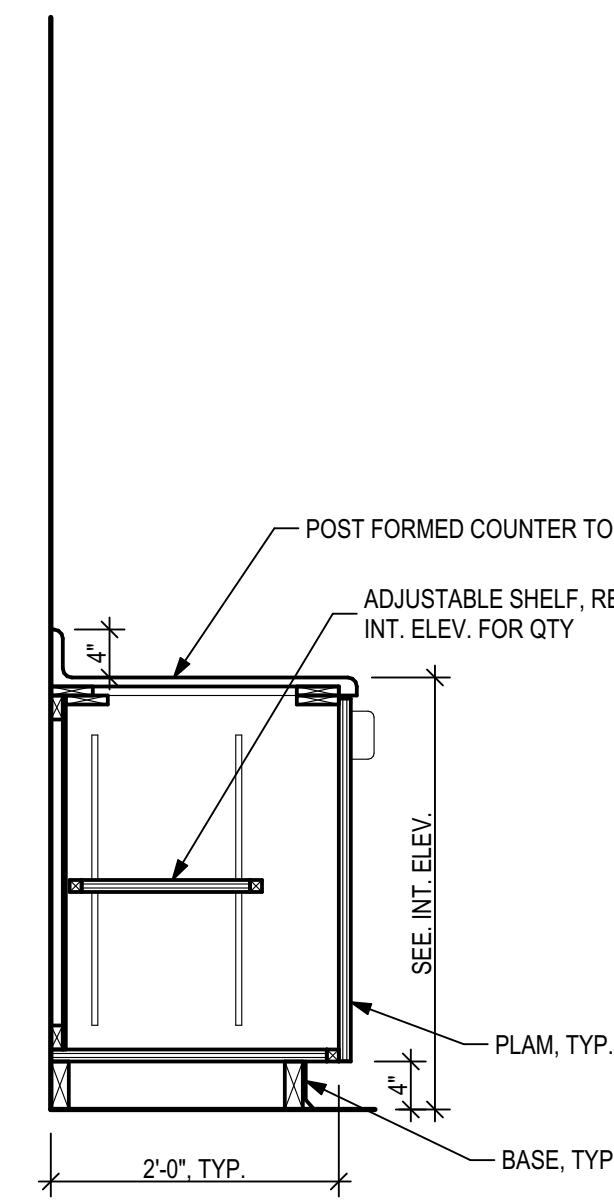
2 UPPER CABINET, SHORT
SCALE: 3/4" = 1'-0"



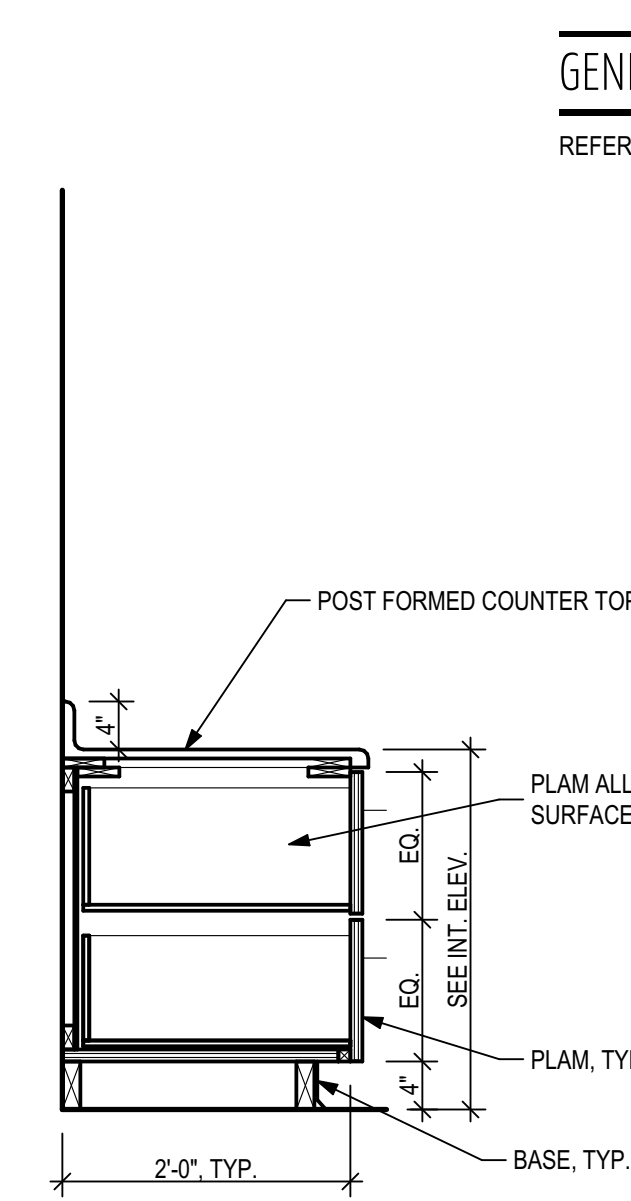
3 UPPER CABINET OPEN, TYP
SCALE: 3/4" = 1'-0"



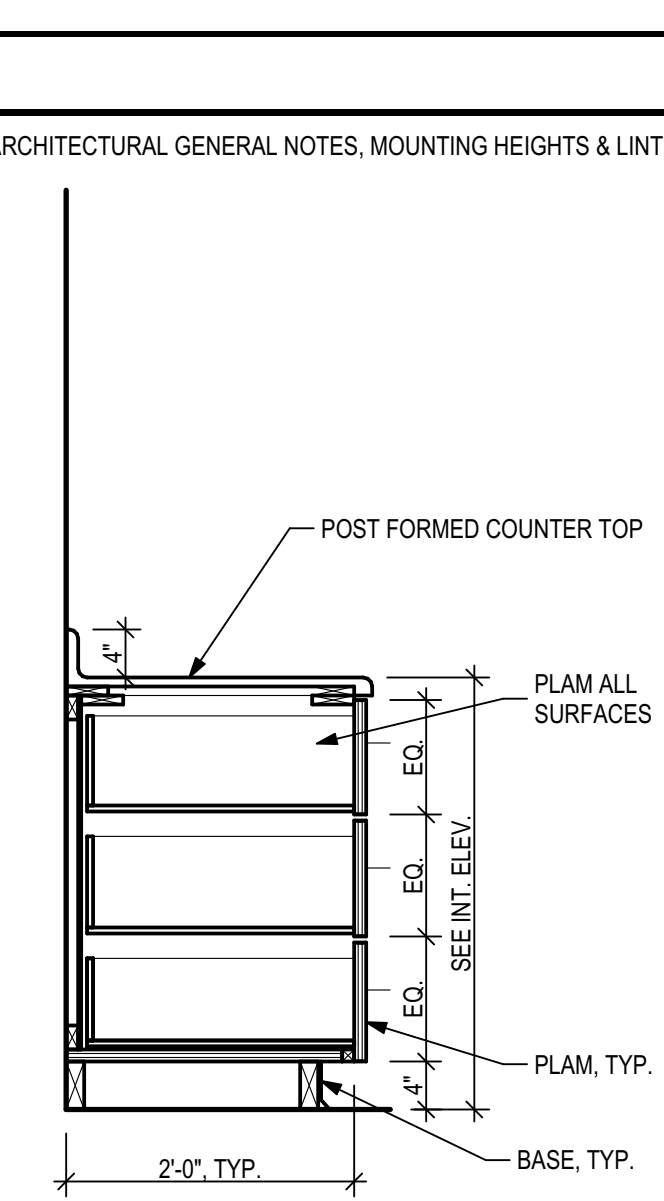
4 BASE CABINET, TYP
SCALE: 3/4" = 1'-0"



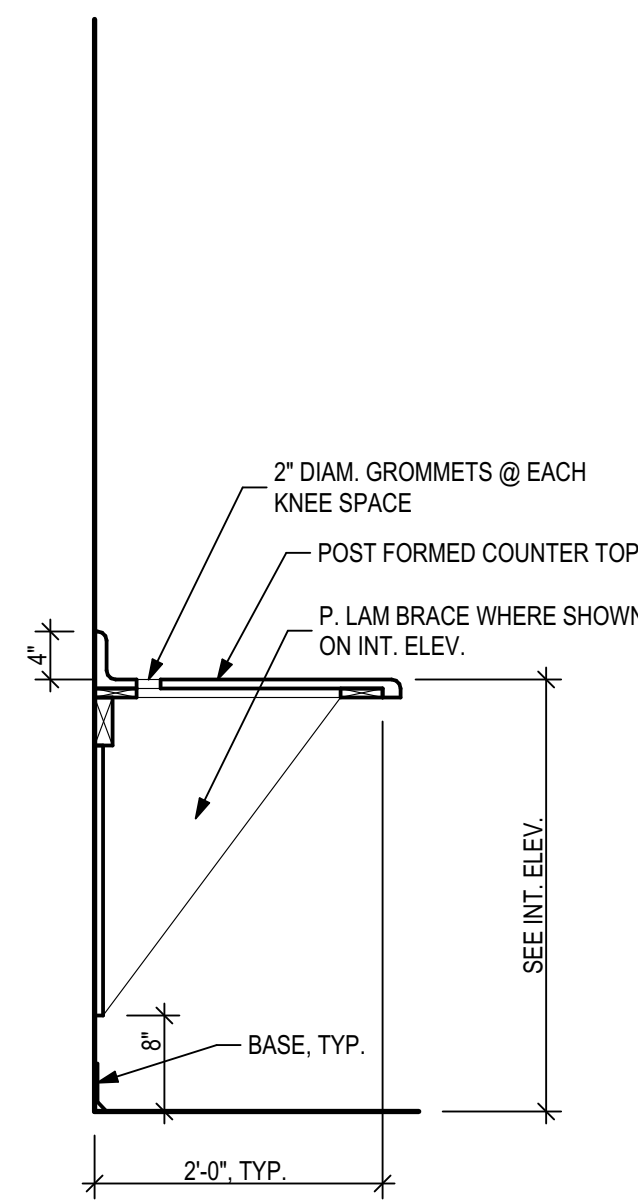
5 BASE CABINET, DOOR
SCALE: 3/4" = 1'-0"



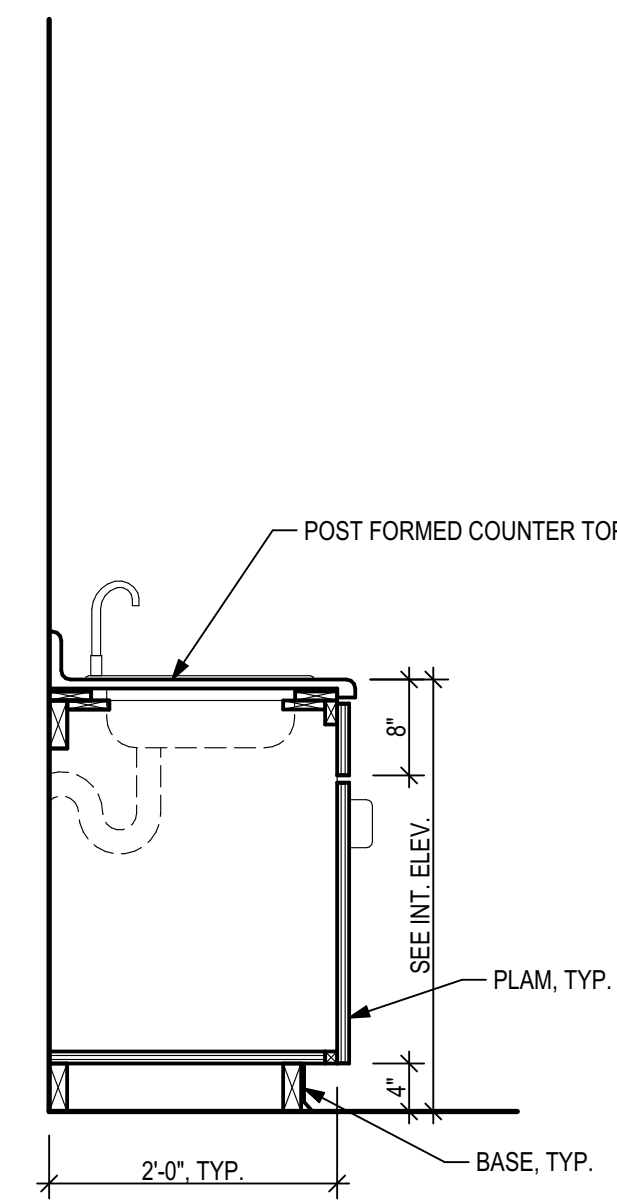
6 BASE CABINET, TWO DRAWERS
SCALE: 3/4" = 1'-0"



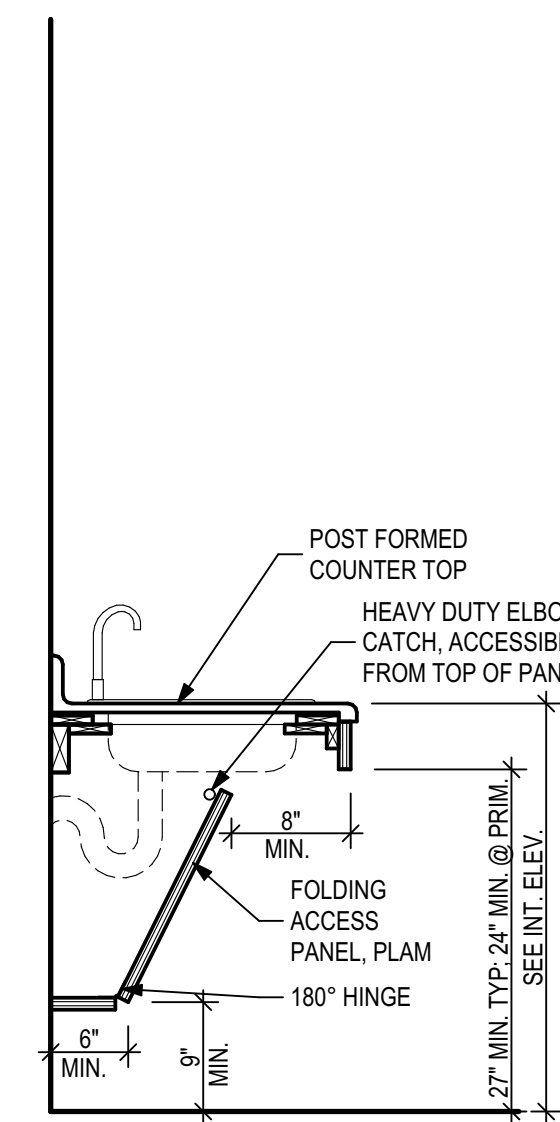
7 BASE CABINET, THREE DRAWERS
SCALE: 3/4" = 1'-0"



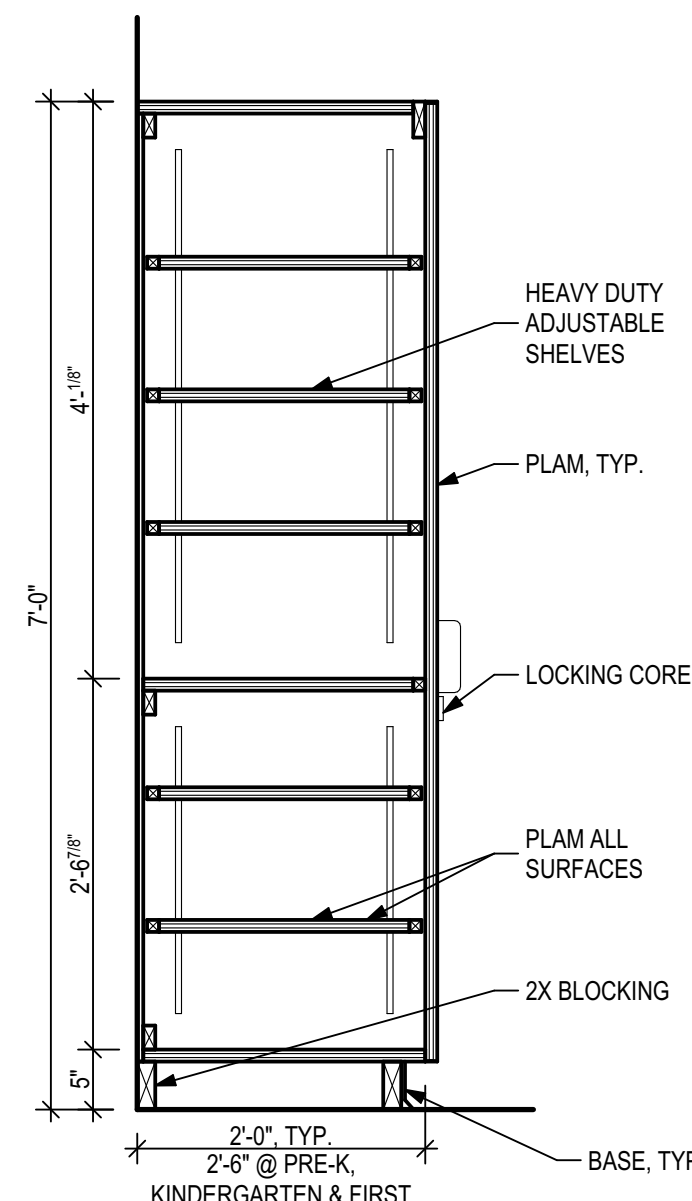
8 BASE CABINET, KNEE SPACE
SCALE: 3/4" = 1'-0"



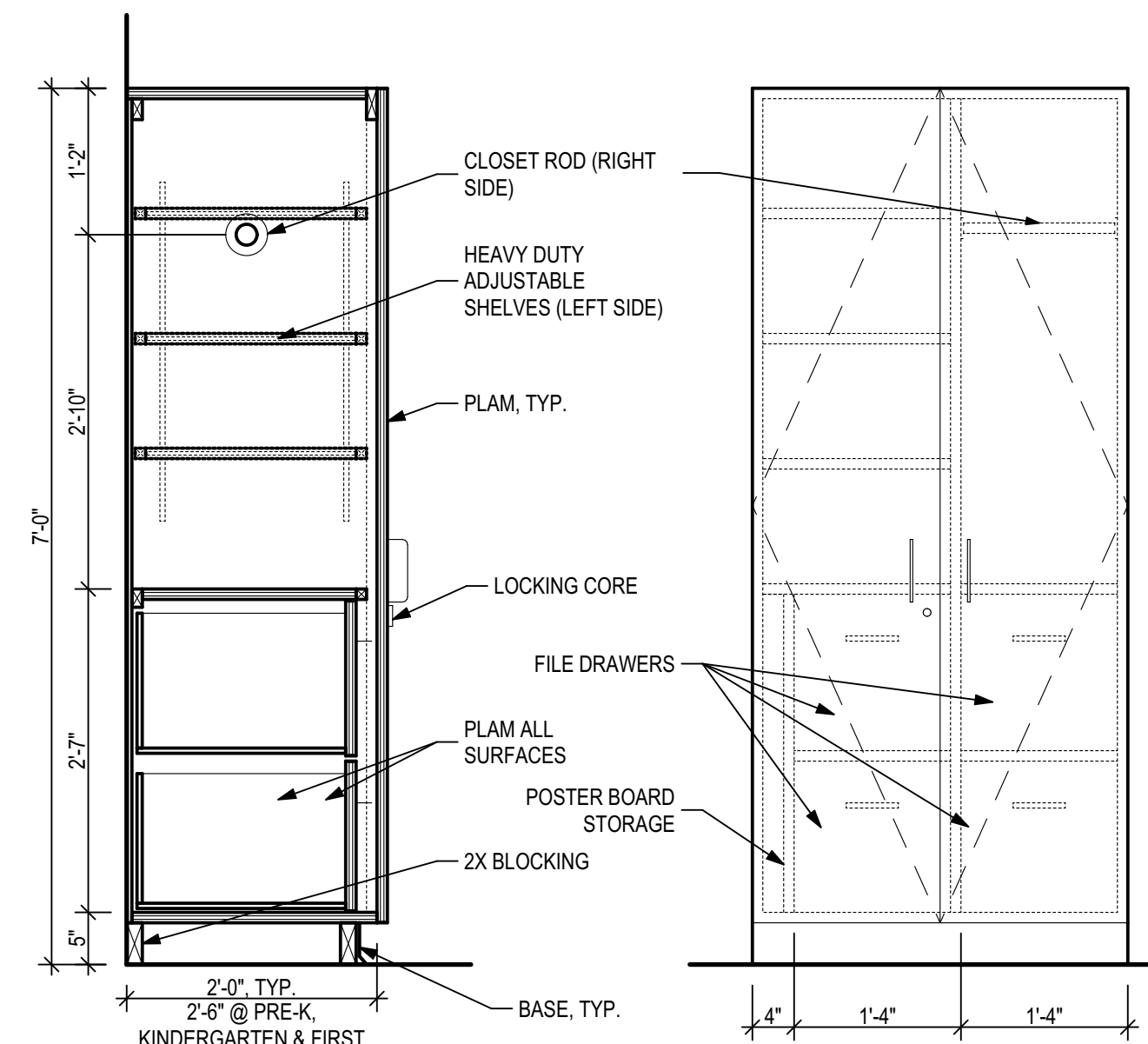
9 BASE CABINET, SINK
SCALE: 3/4" = 1'-0"



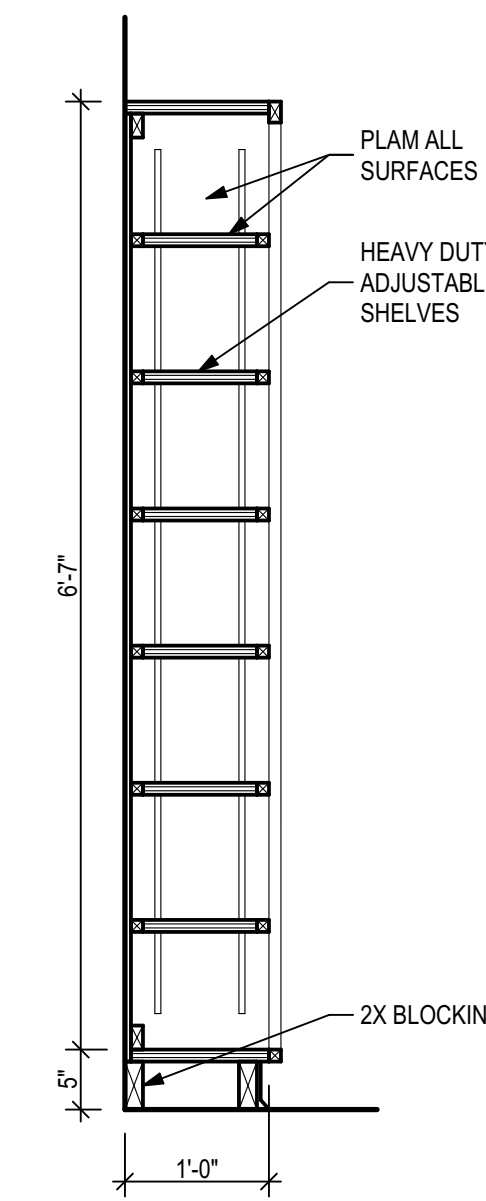
10 BASE CABINET, SINK, KNEE SPACE
SCALE: 3/4" = 1'-0"



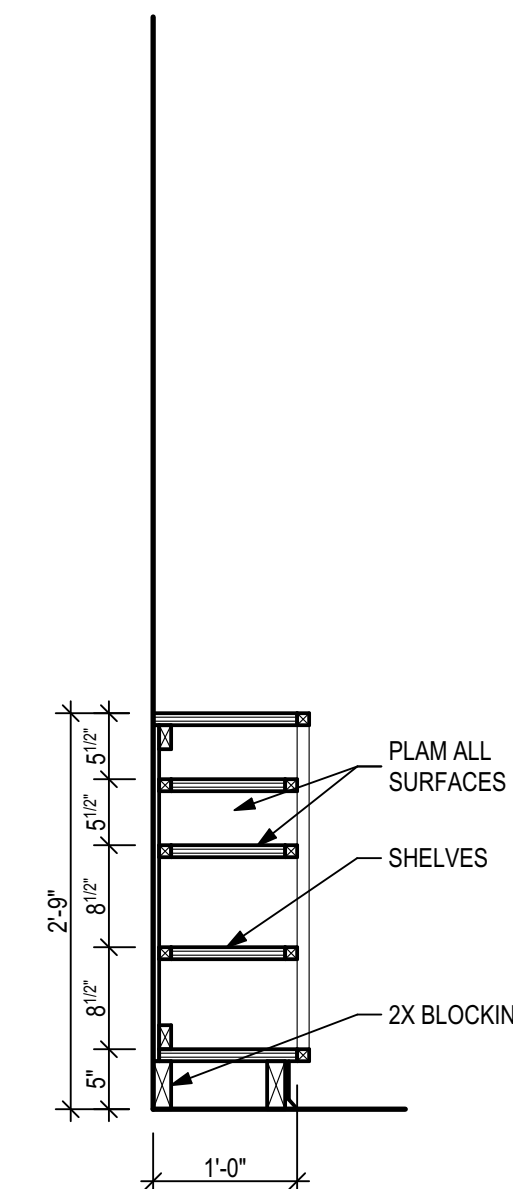
11 STORAGE CABINET, TYP.
SCALE: 3/4" = 1'-0"



12 TEACHER'S WARDROBE CABINET, TYP.
SCALE: 3/4" = 1'-0"



13 BOOK SHELF
SCALE: 3/4" = 1'-0"



14 CUBBIE, TYP.
SCALE: 3/4" = 1'-0"

GENERAL NOTES
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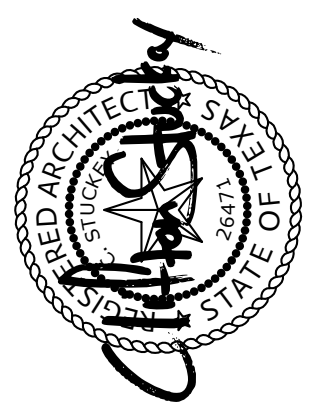
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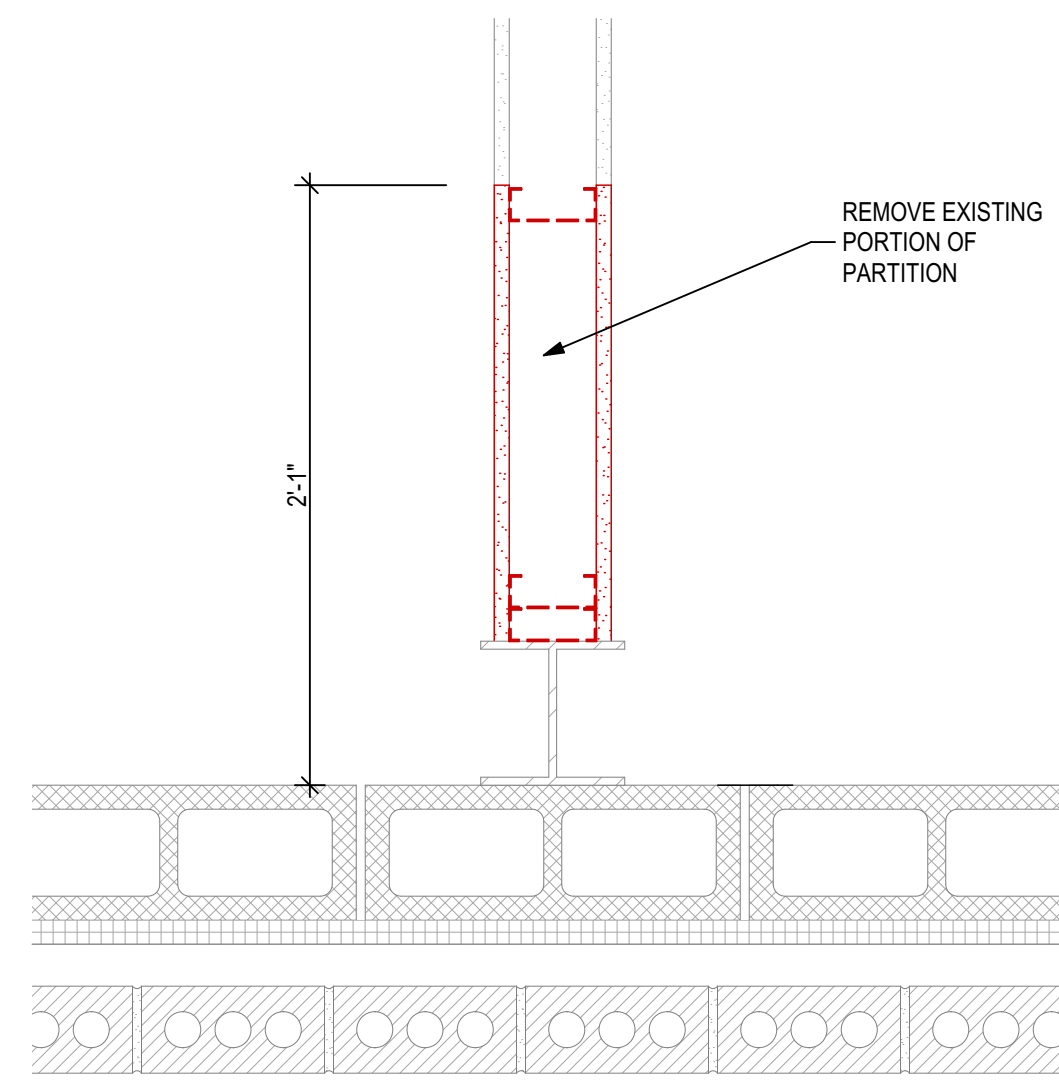
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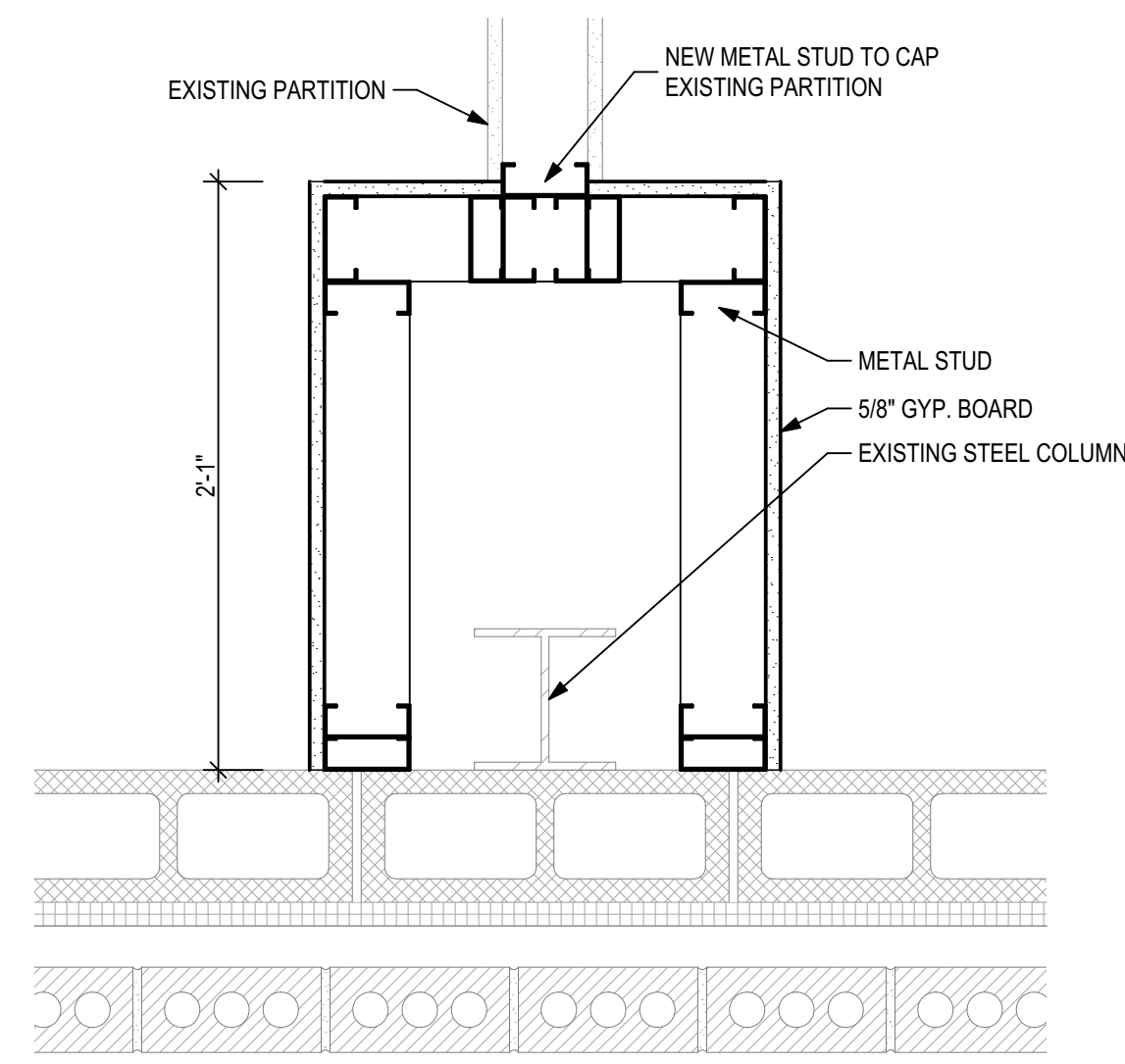
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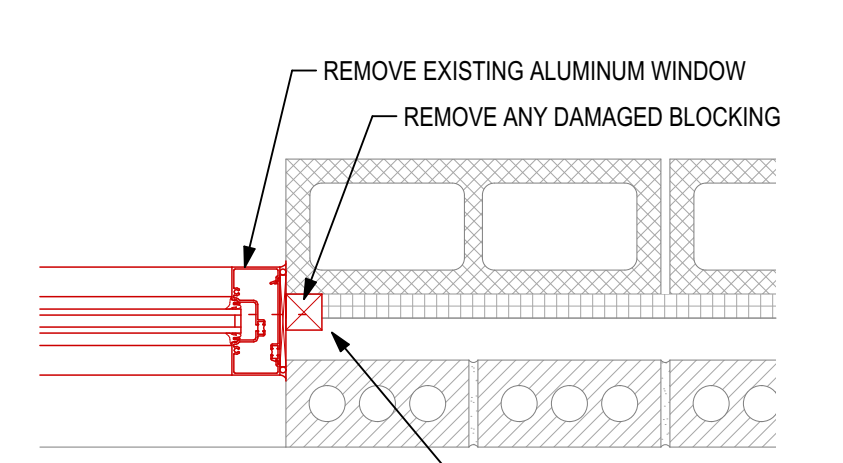
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1 EXTERIOR CHASE PLAN DETAIL

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



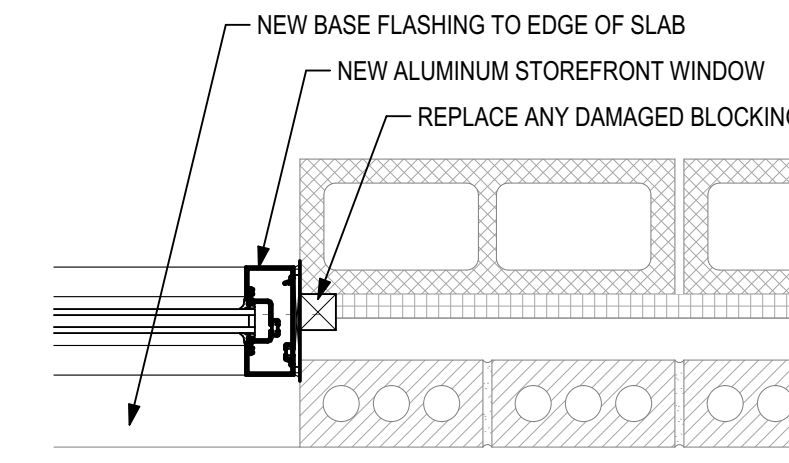
NEW CONSTRUCTION



DEMOLITION

2 WINDOW REPLACEMENT PLAN DETAIL

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



NEW CONSTRUCTION

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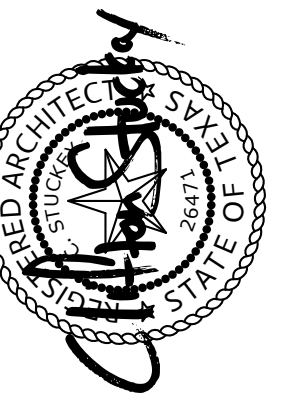
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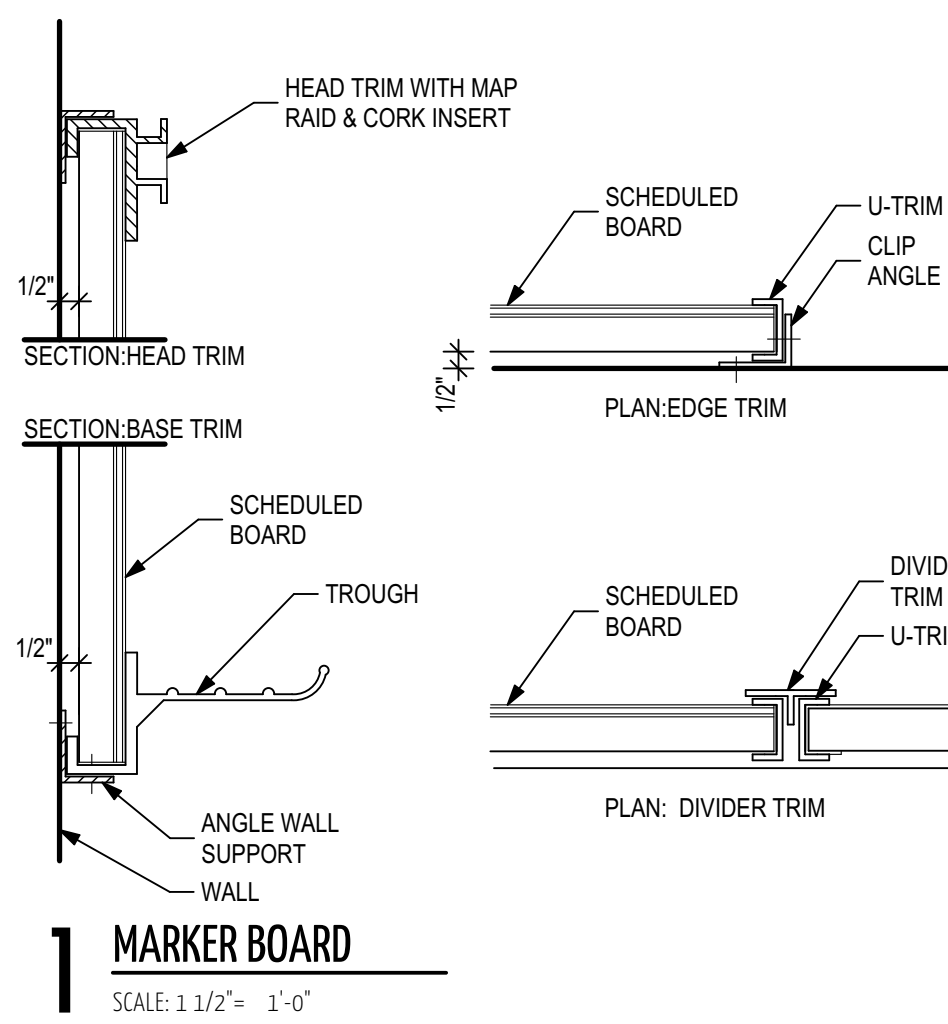
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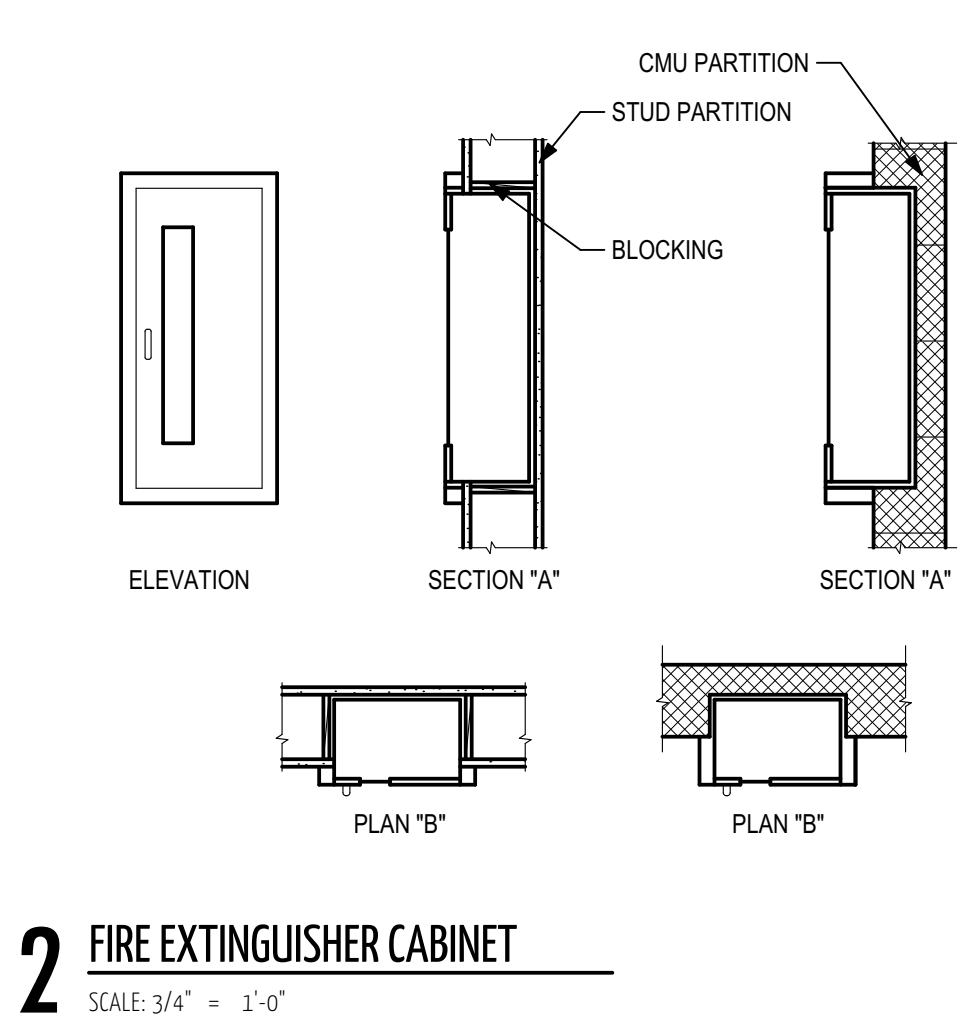
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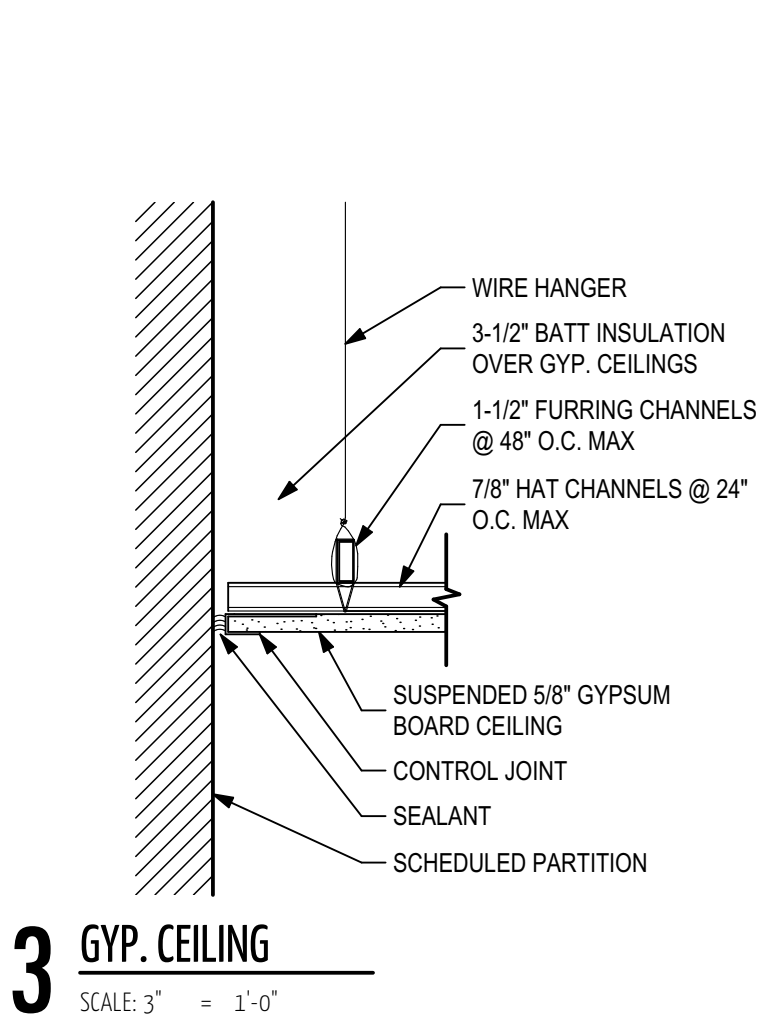
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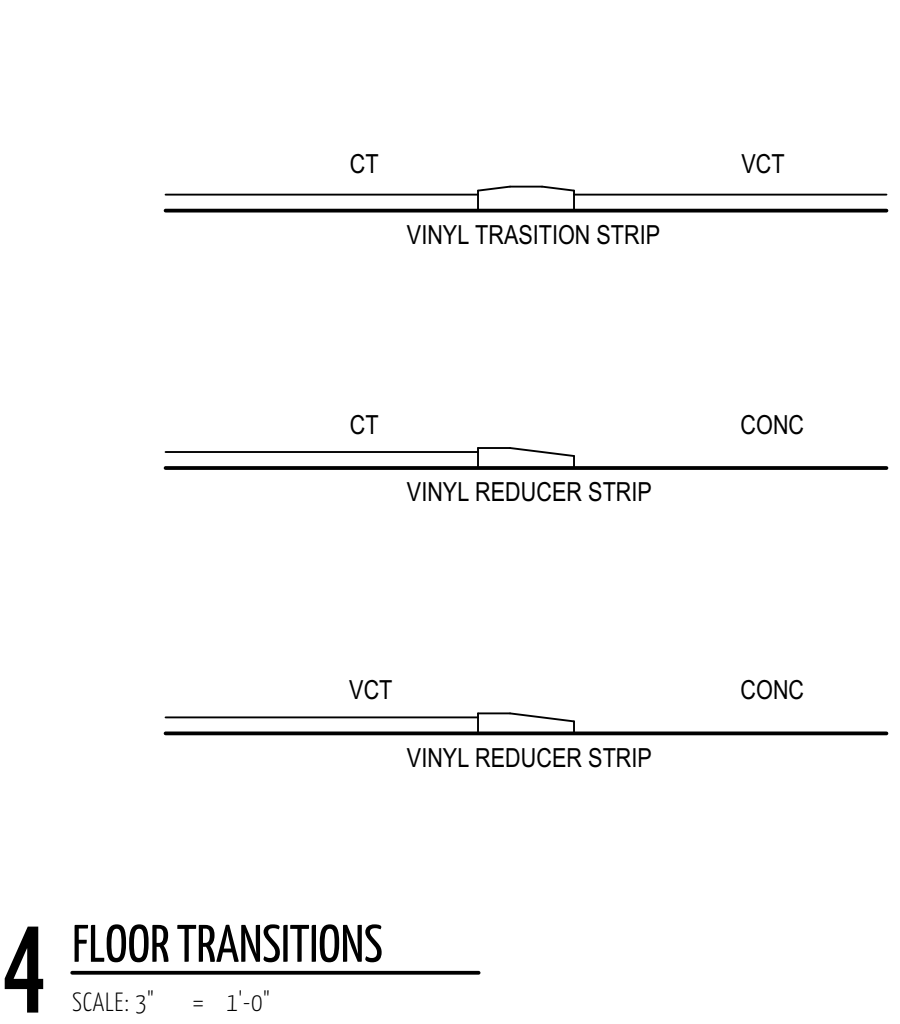
1 MARKER BOARD
SCALE: 1 1/2" = 1'-0"



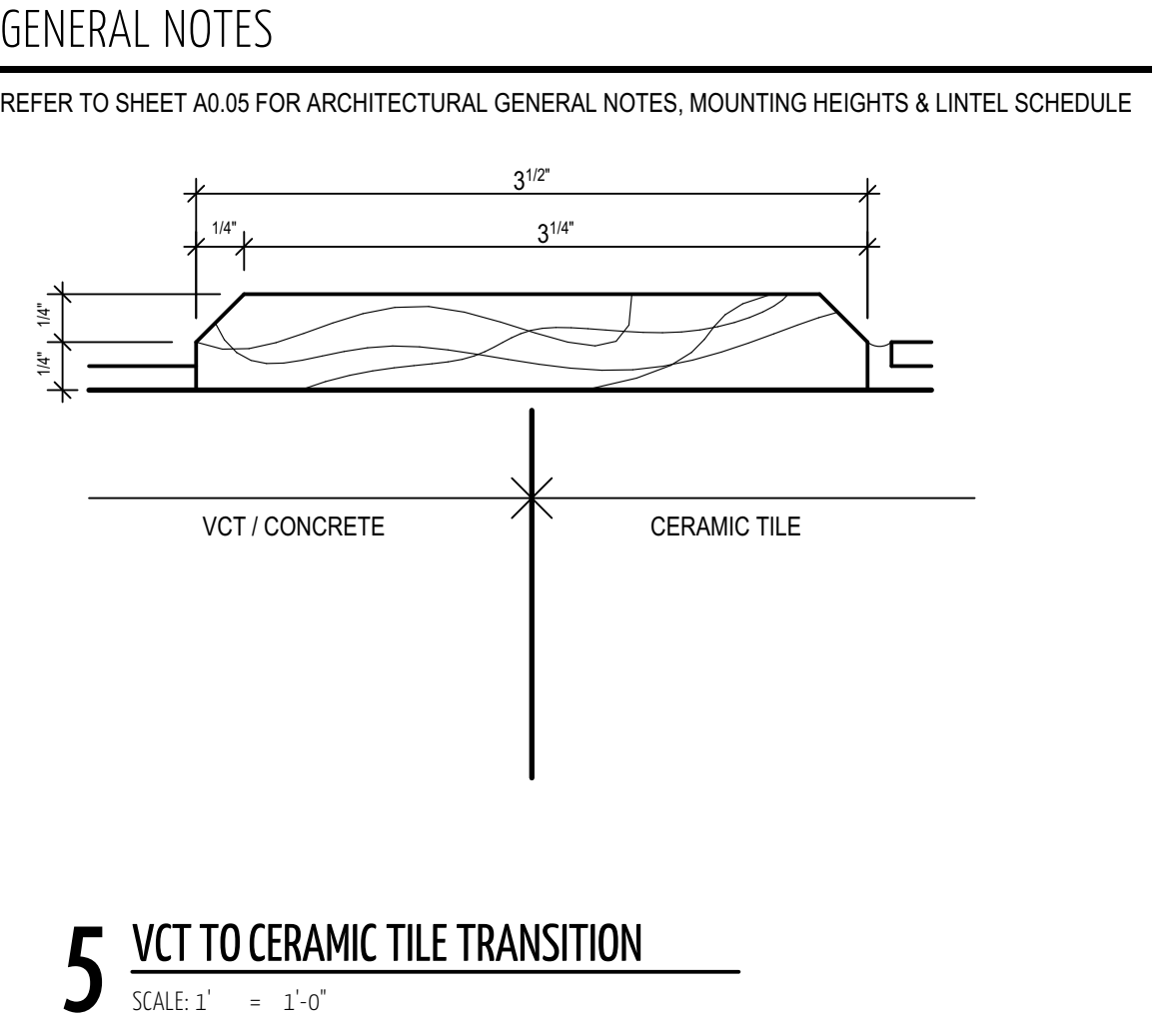
2 FIRE EXTINGUISHER CABINET
SCALE: 3/4" = 1'-0"



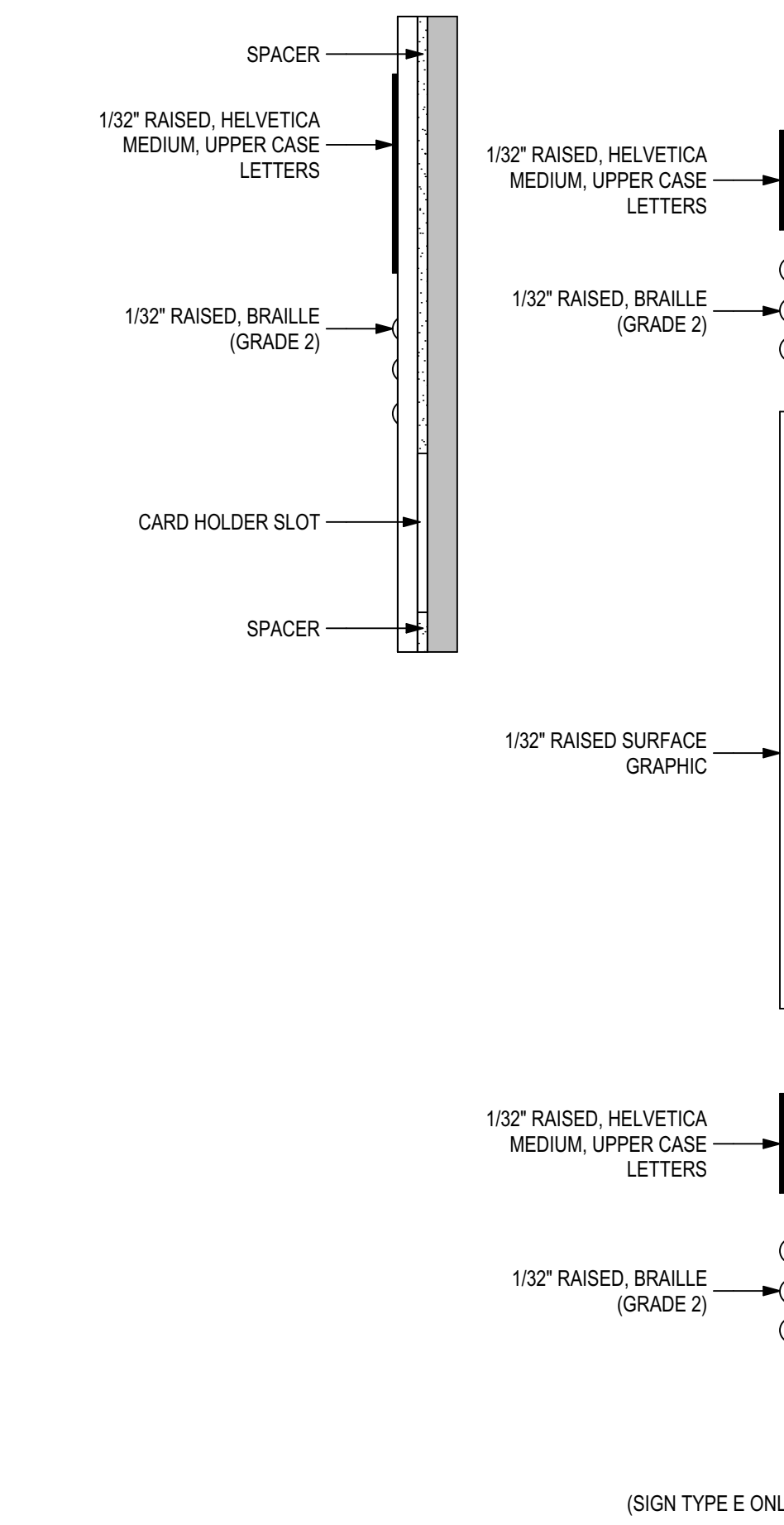
3 GYP. CEILING
SCALE: 3" = 1'-0"



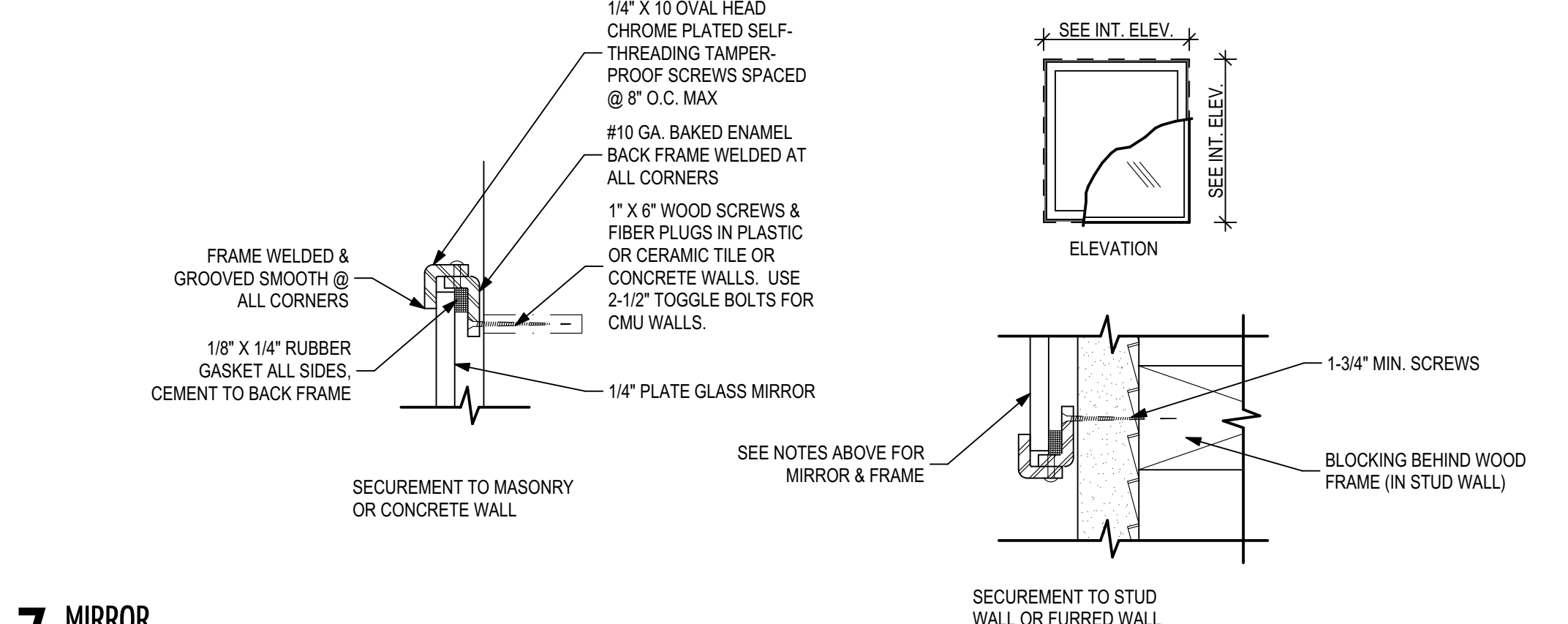
4 FLOOR TRANSITIONS
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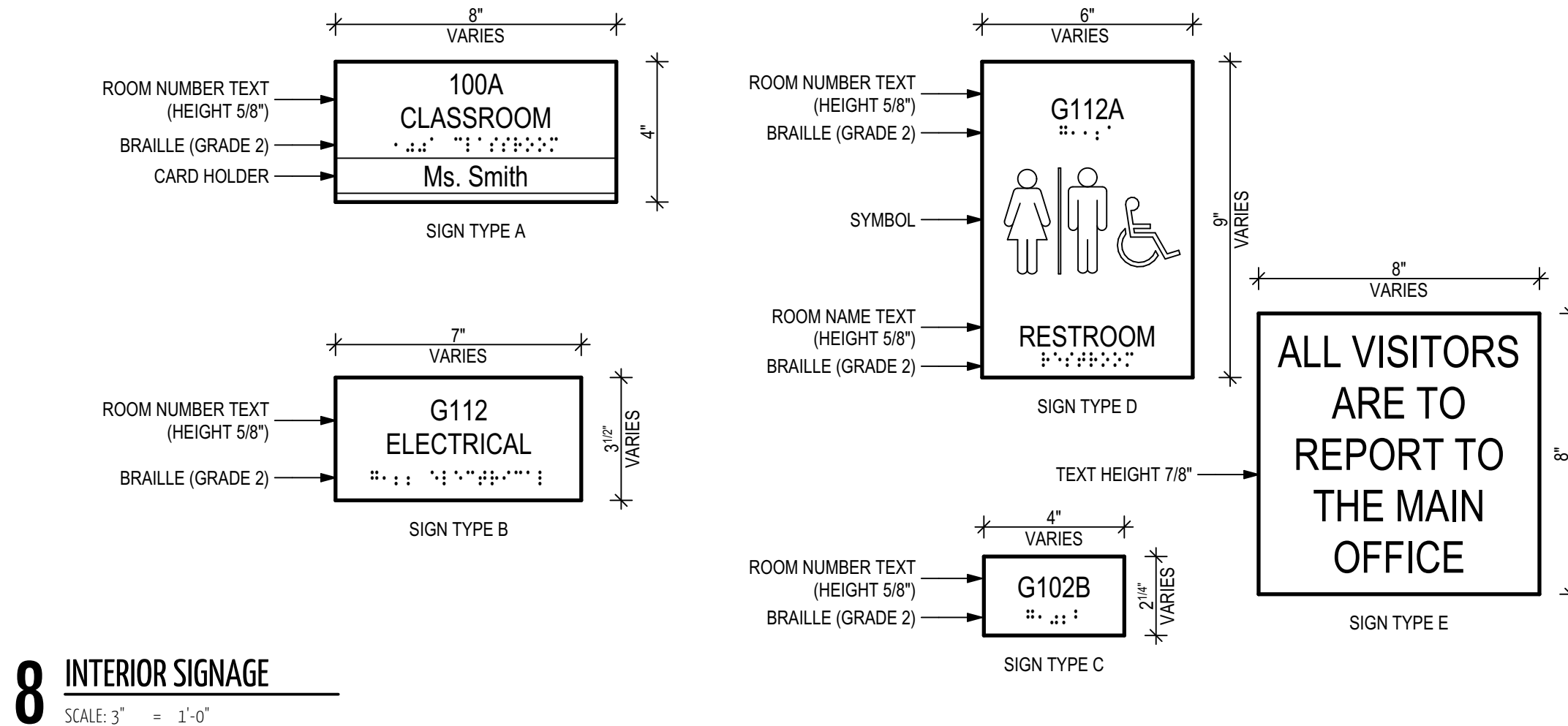
5 VCT TO CERAMIC TILE TRANSITION
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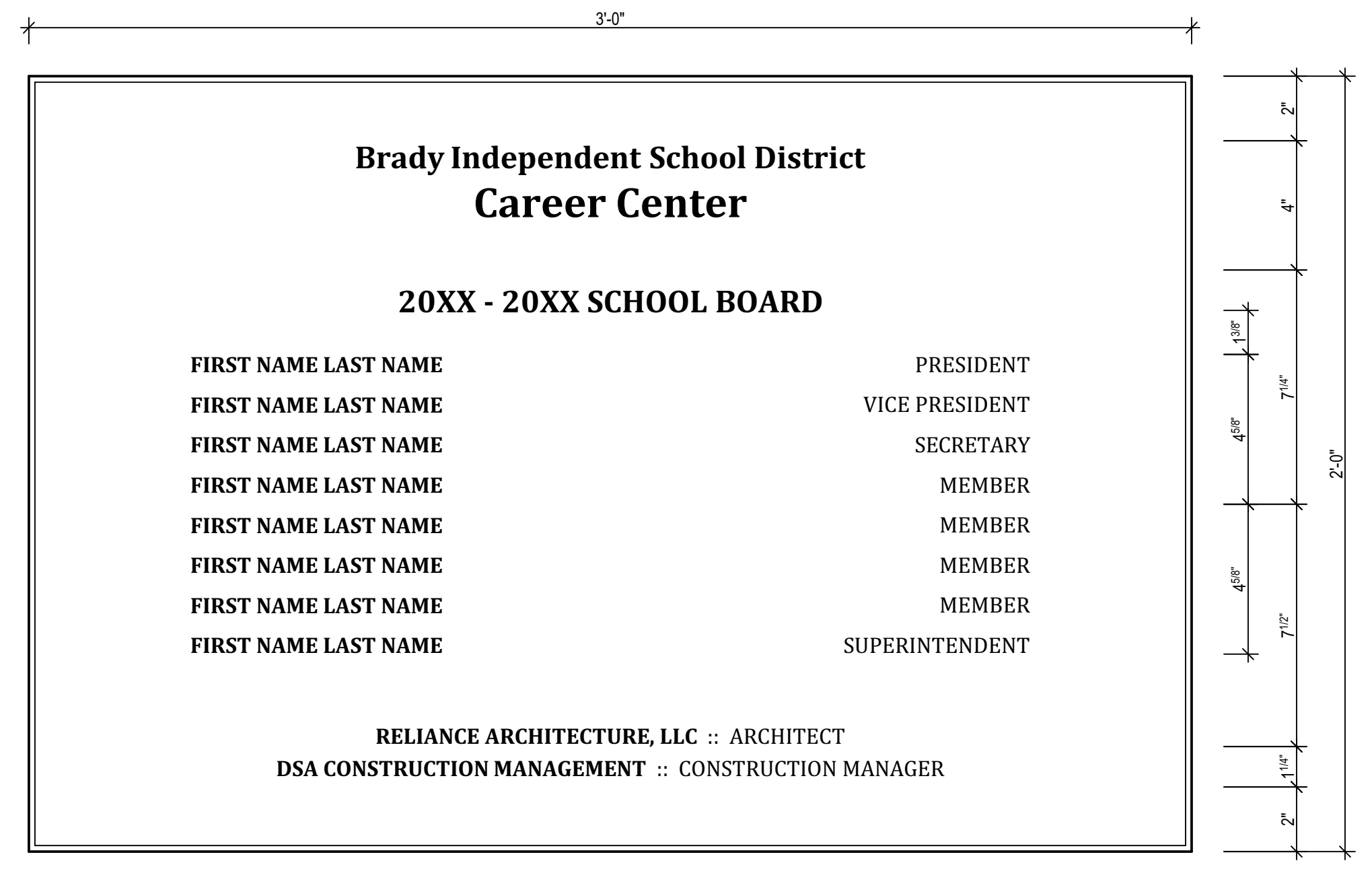
6 SIGNAGE SECTIONS
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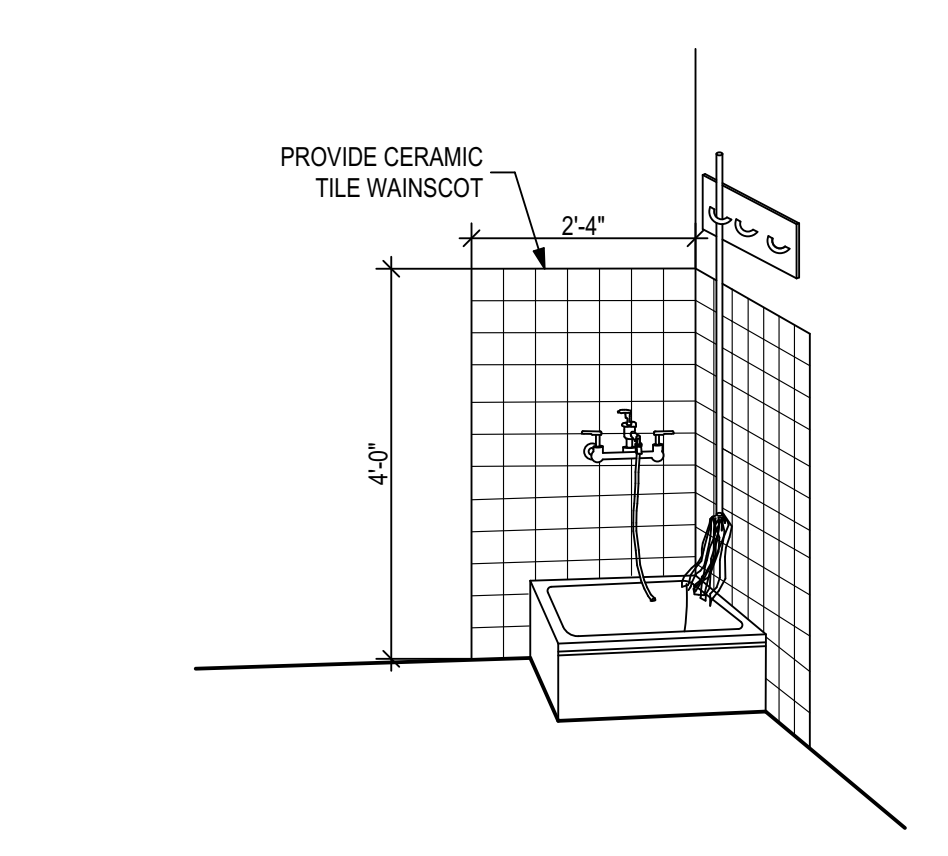
7 MIRROR
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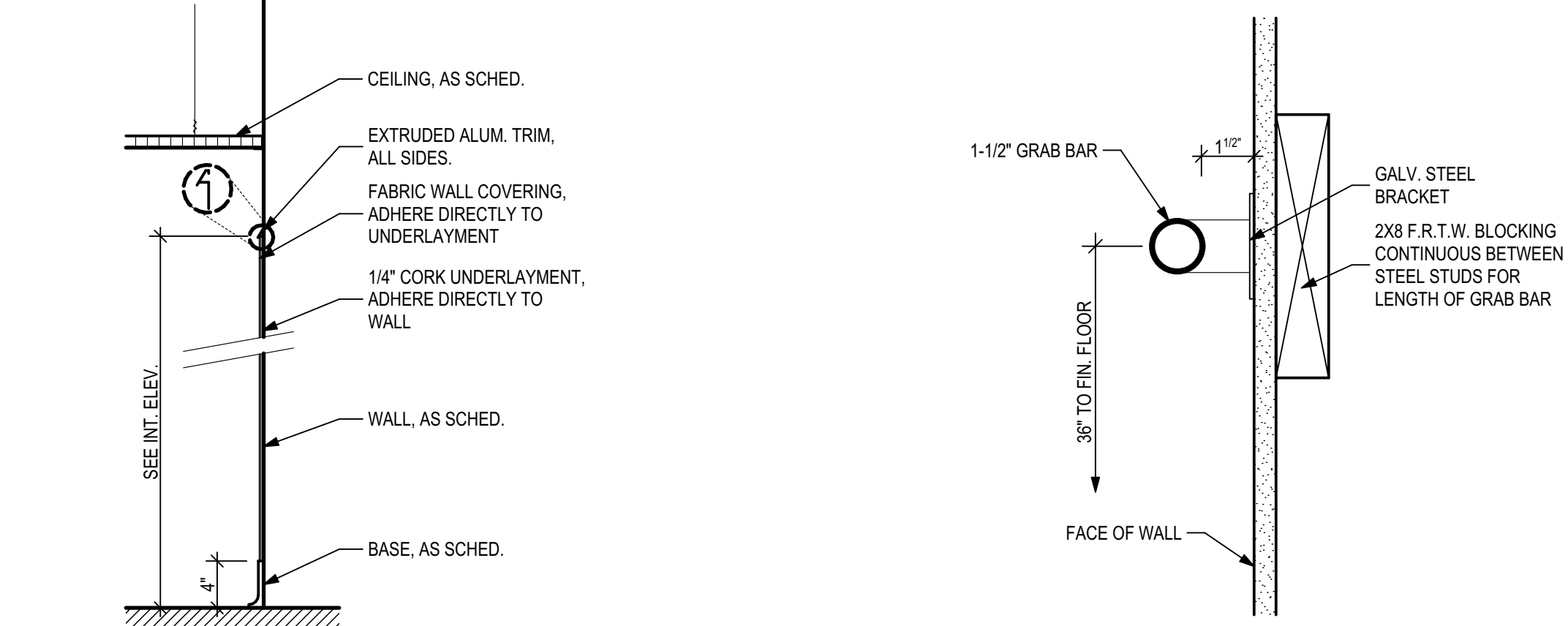
8 INTERIOR SIGNAGE
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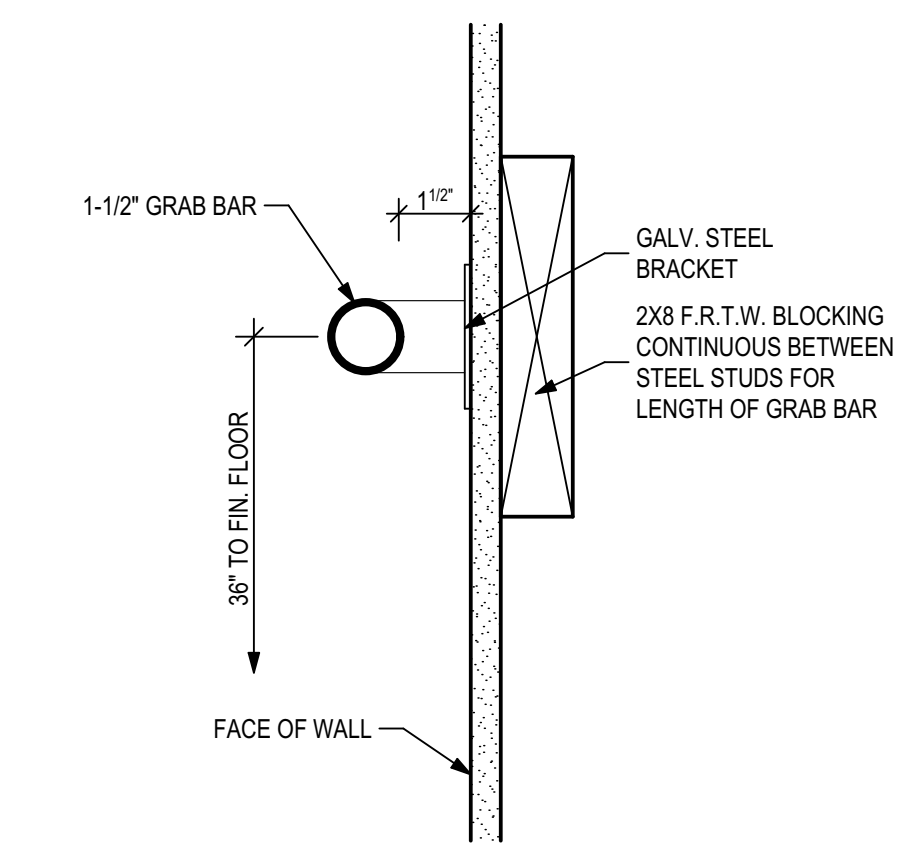
9 DEDICATION PLAQUE
SCALE: 3" = 1'-0"



10 MOP STATION
SCALE: 1/2" = 1'-0"



11 TACKABLE WALL SURFACE
SCALE: 1" = 1'-0"



12 GRAB BAR
SCALE: 3" = 1'-0"

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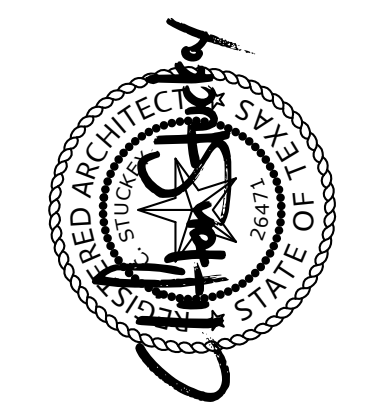
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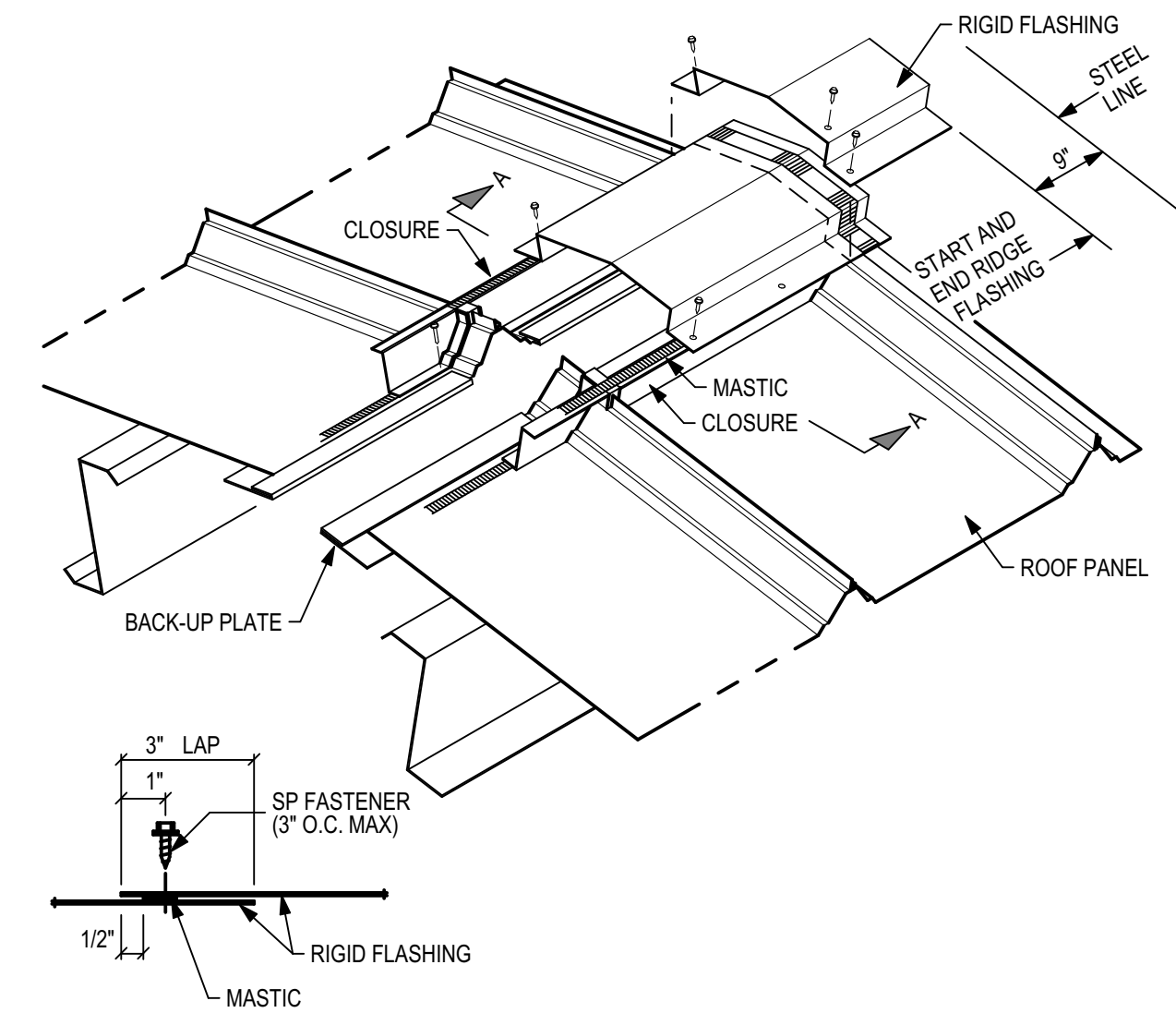
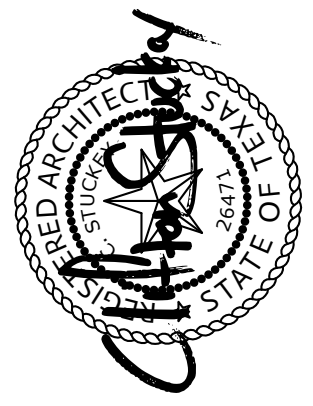
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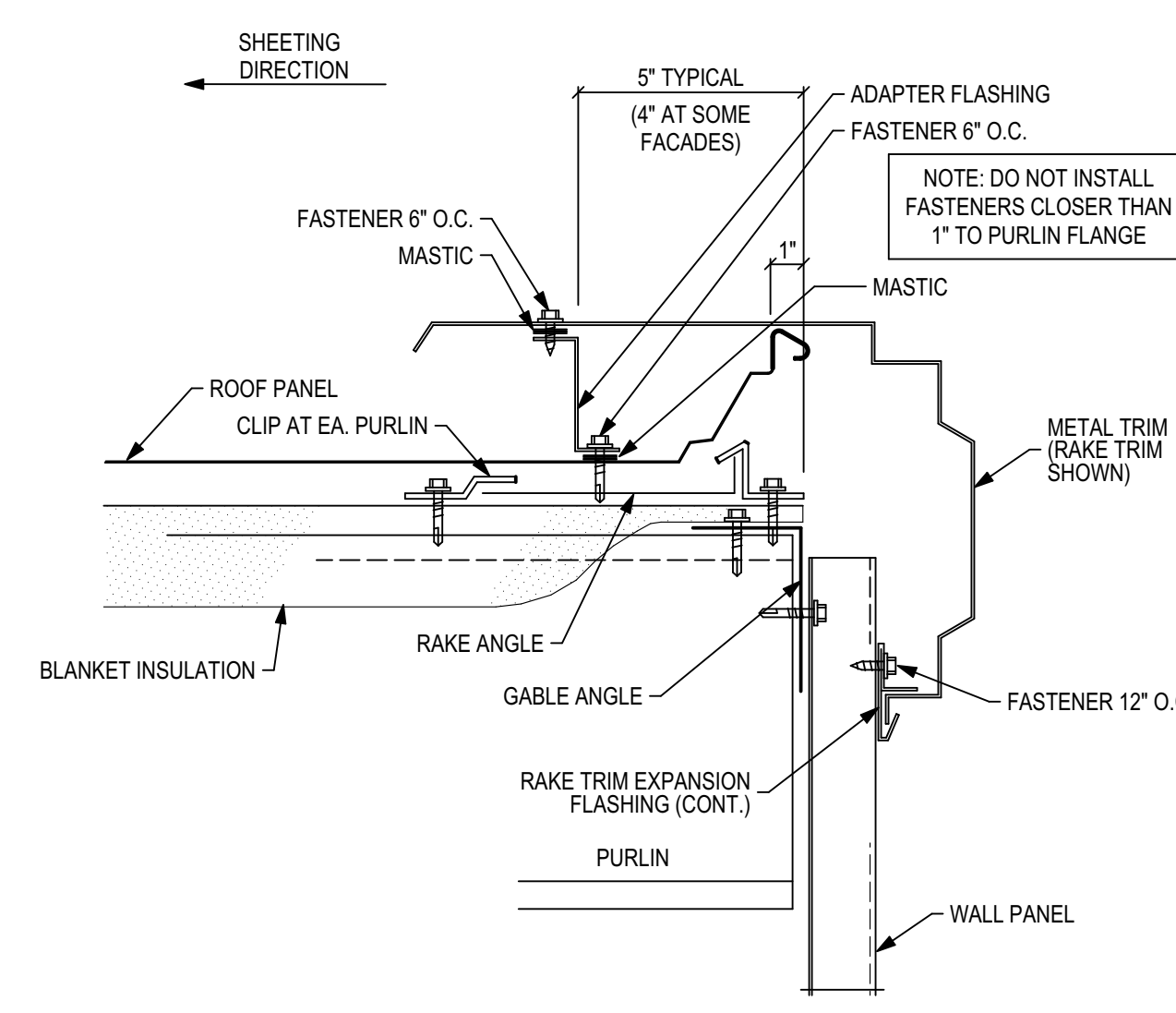
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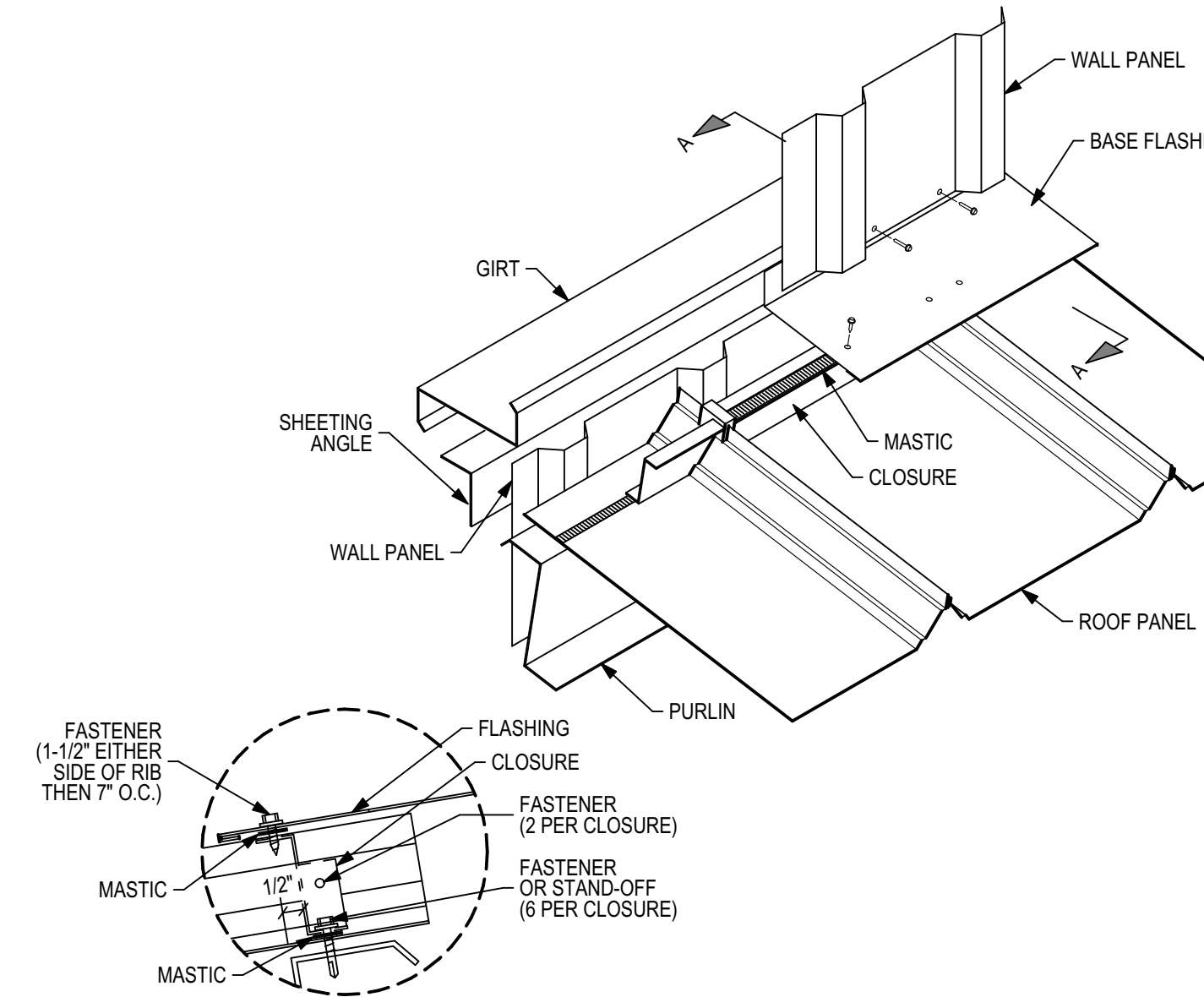
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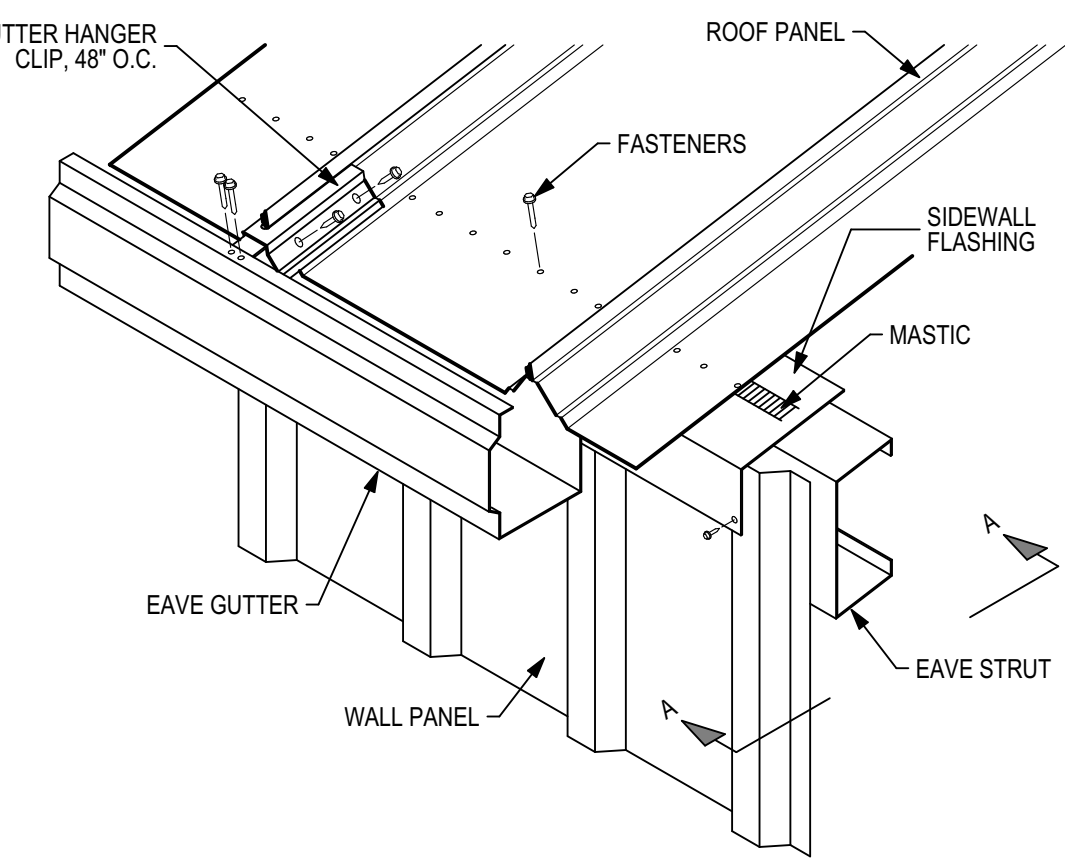
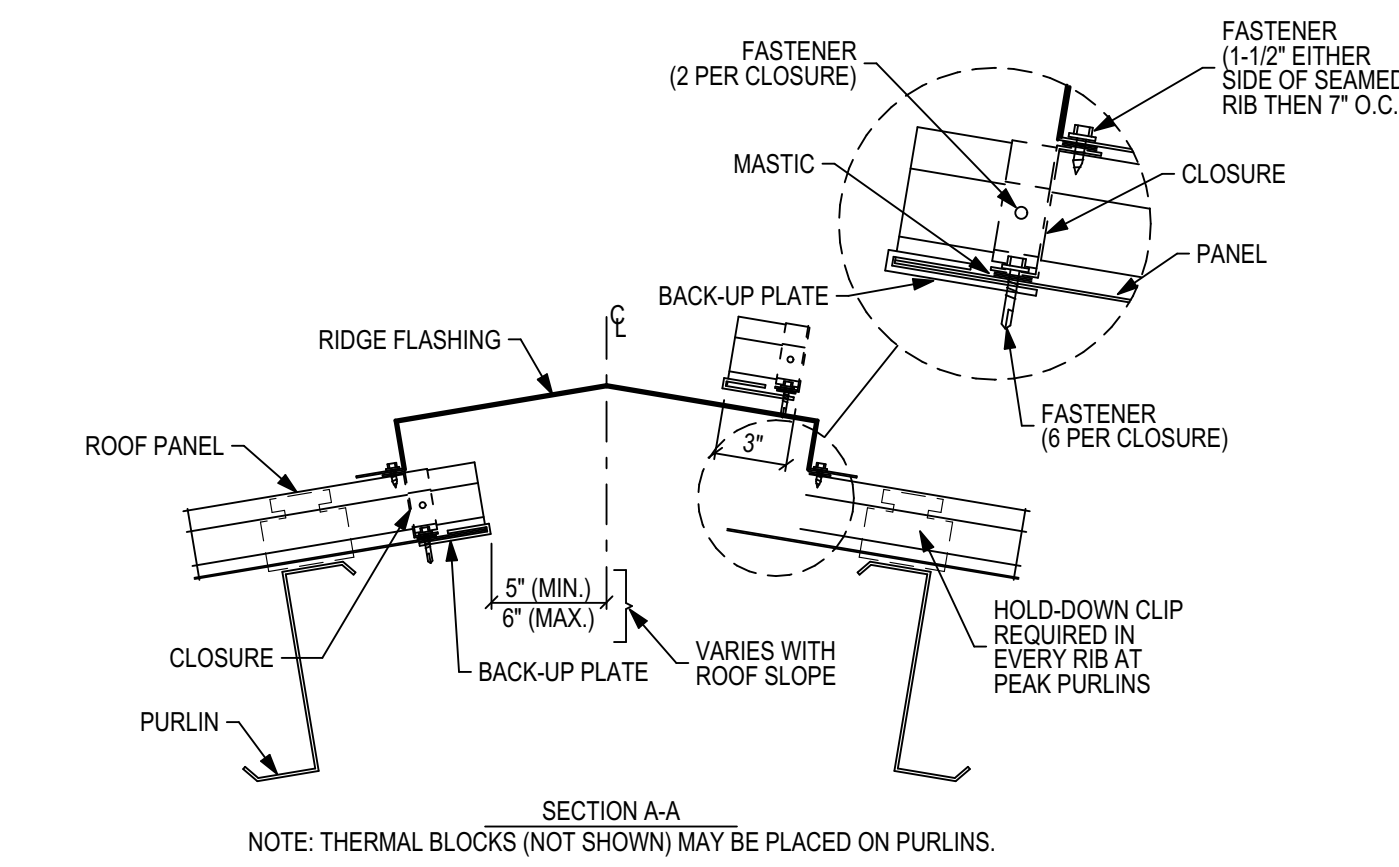
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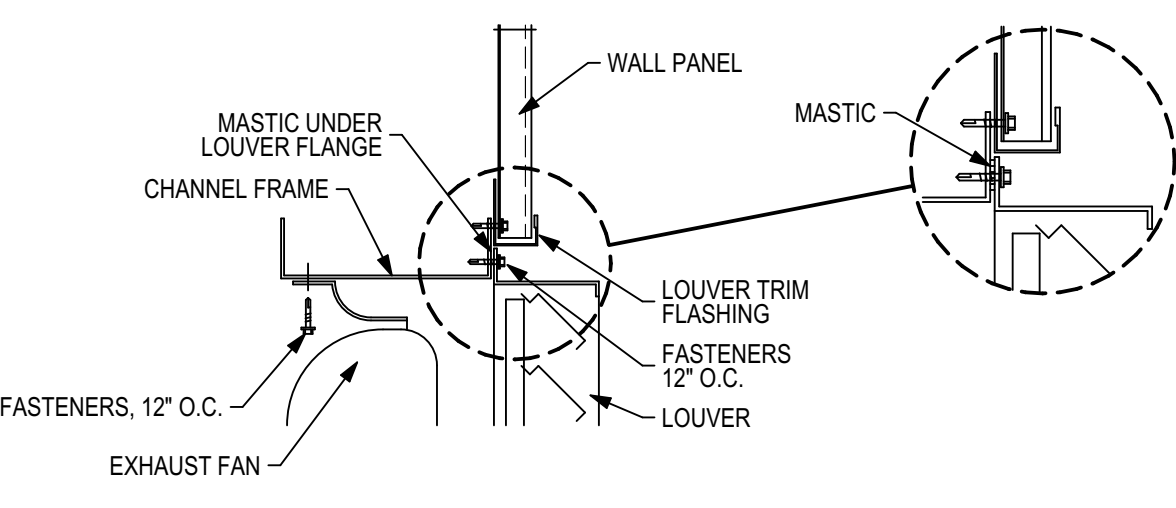
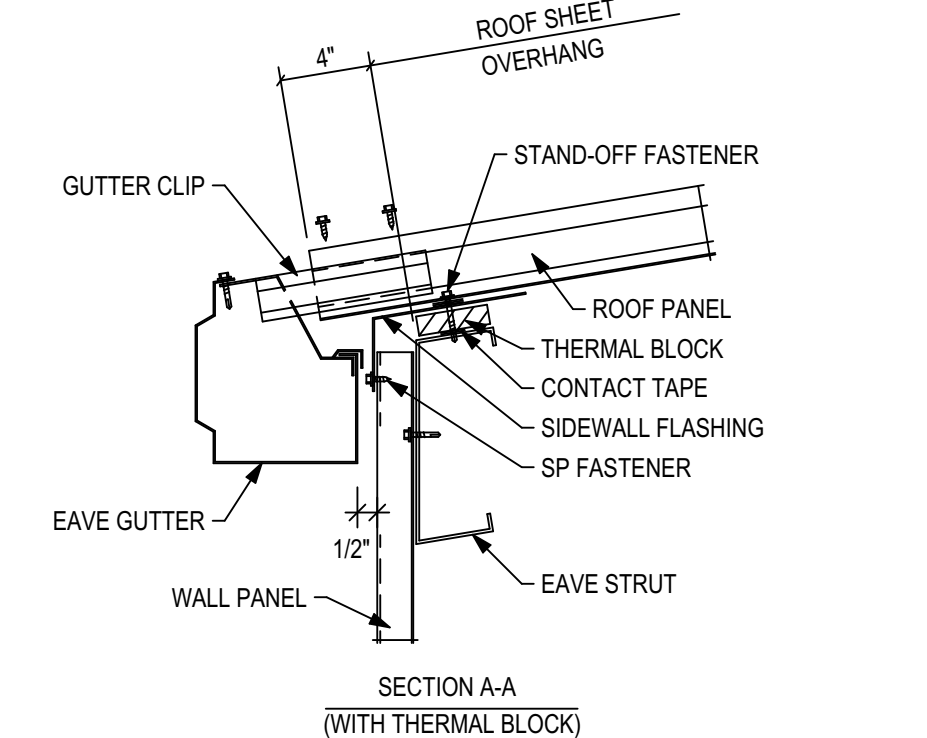
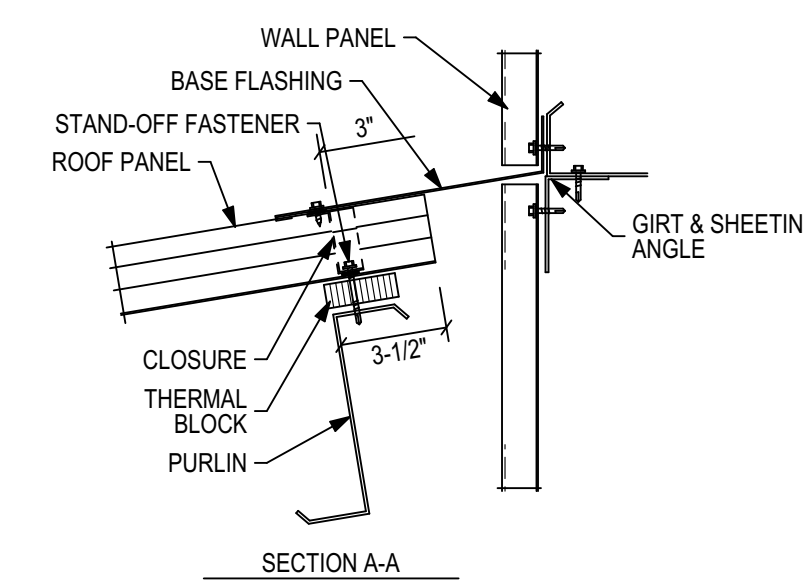
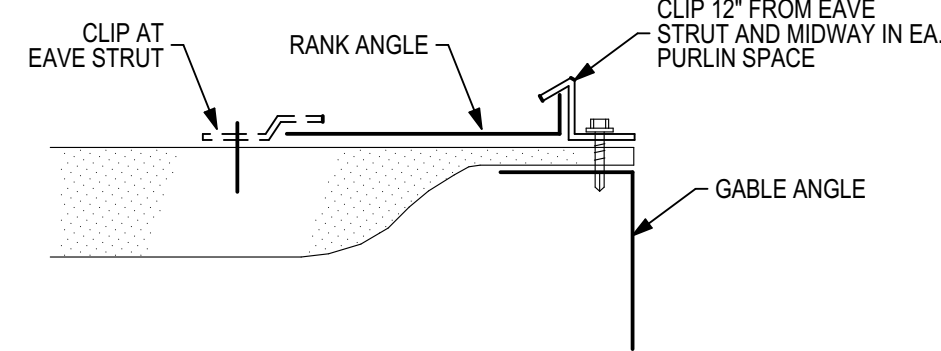
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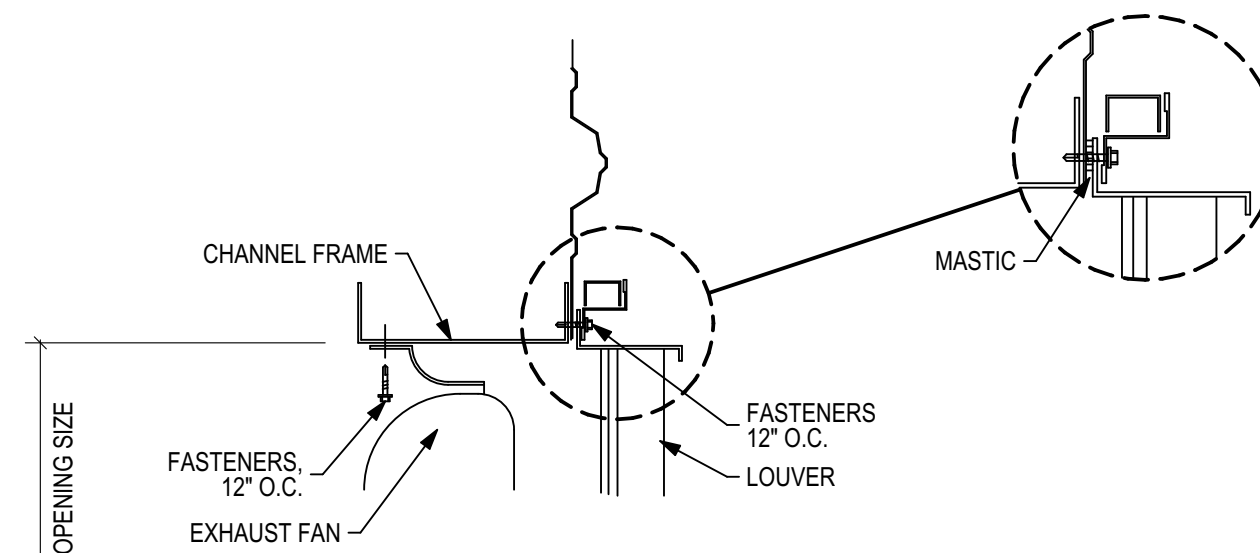
3 BUILDING INTERSECTION DETAIL
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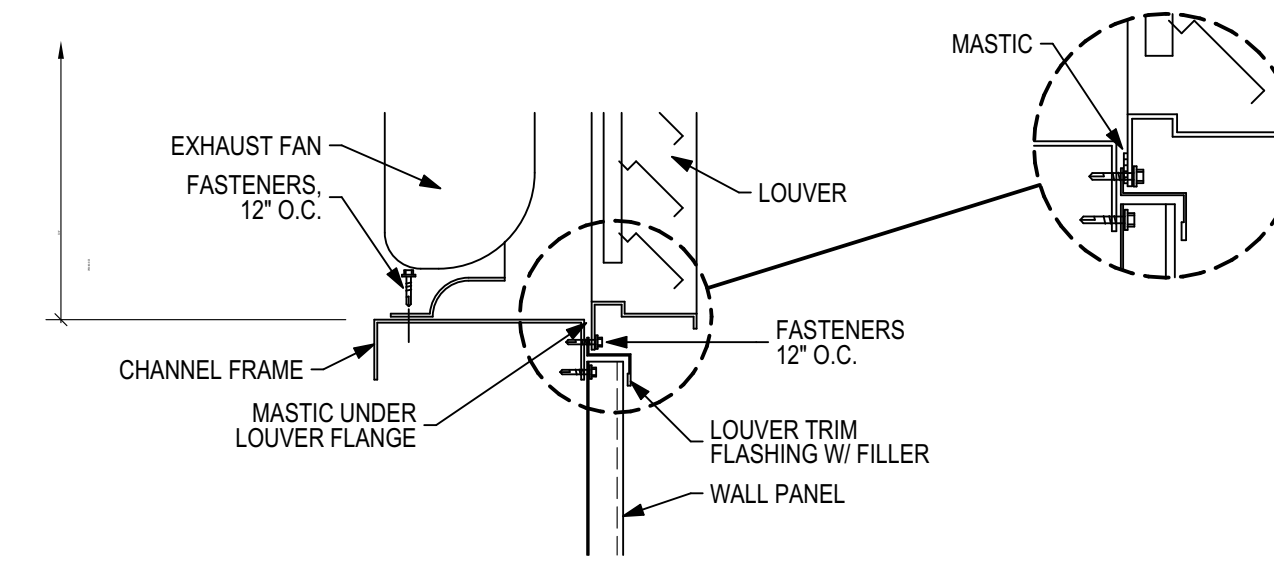
4 EAVE & GUTTER DETAIL
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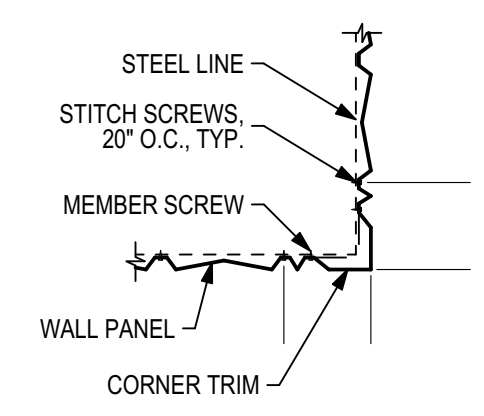
5 LOUVER DETAIL
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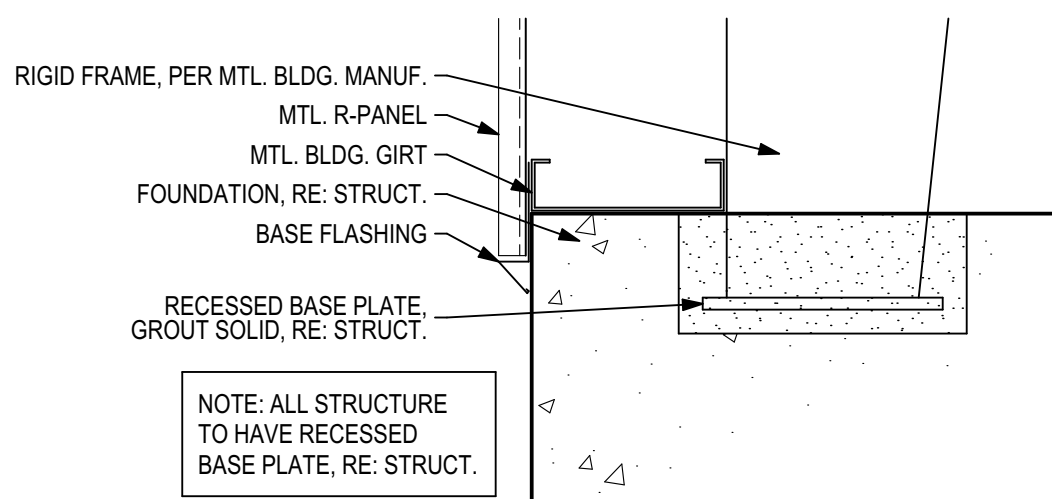
6 LOUVER DETAIL
SCALE: NOT TO SCALE



7 LOUVER DETAIL
SCALE: NOT TO SCALE



8 CORNER DETAIL
SCALE: NOT TO SCALE



9 WALL BASE DETAIL
SCALE: NOT TO SCALE

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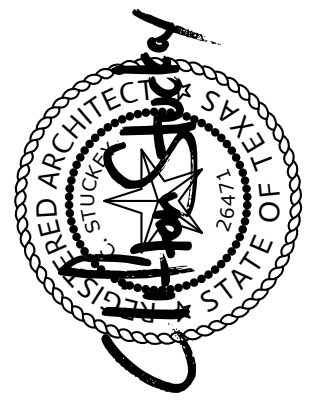
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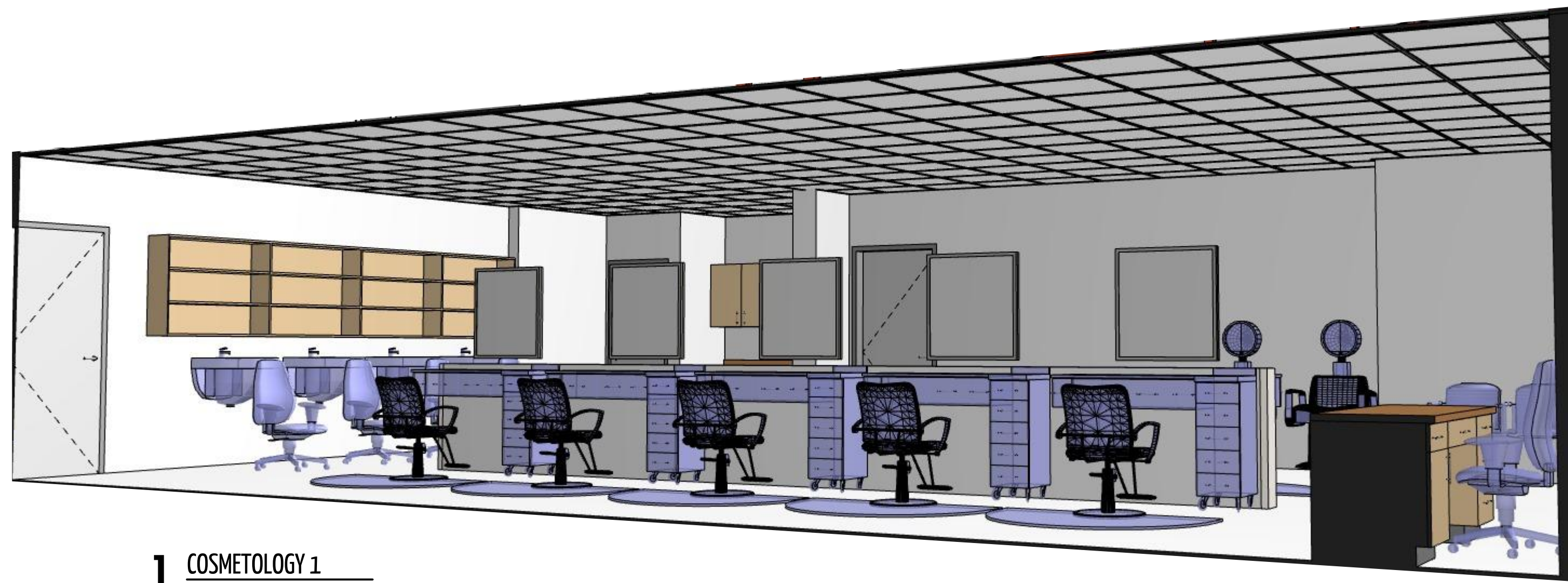


1 CAREER CENTER
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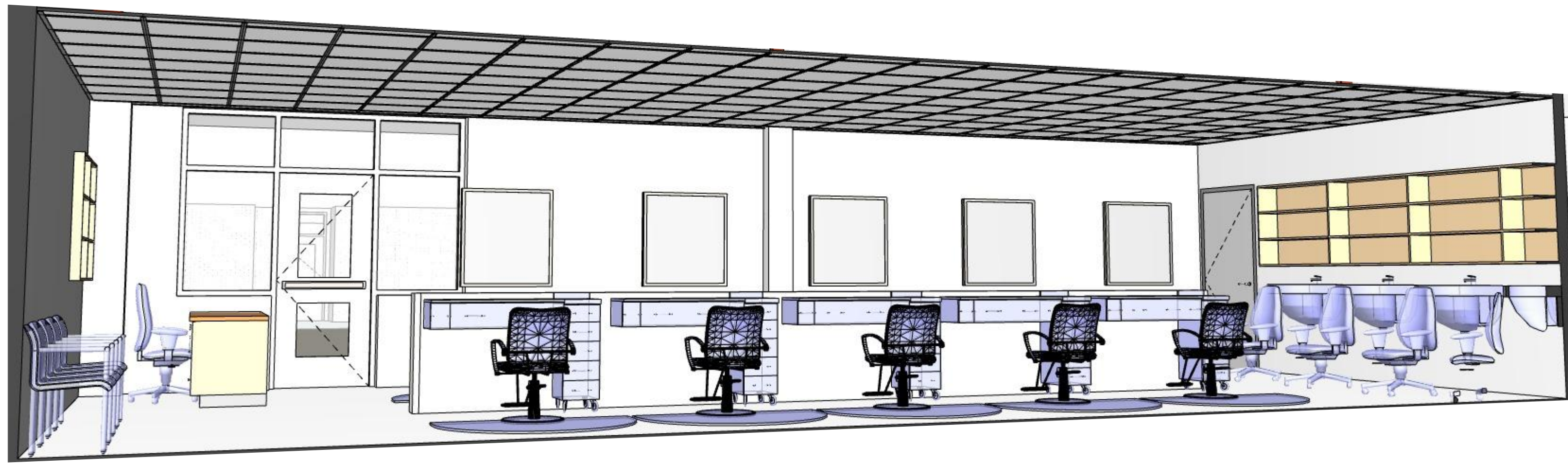
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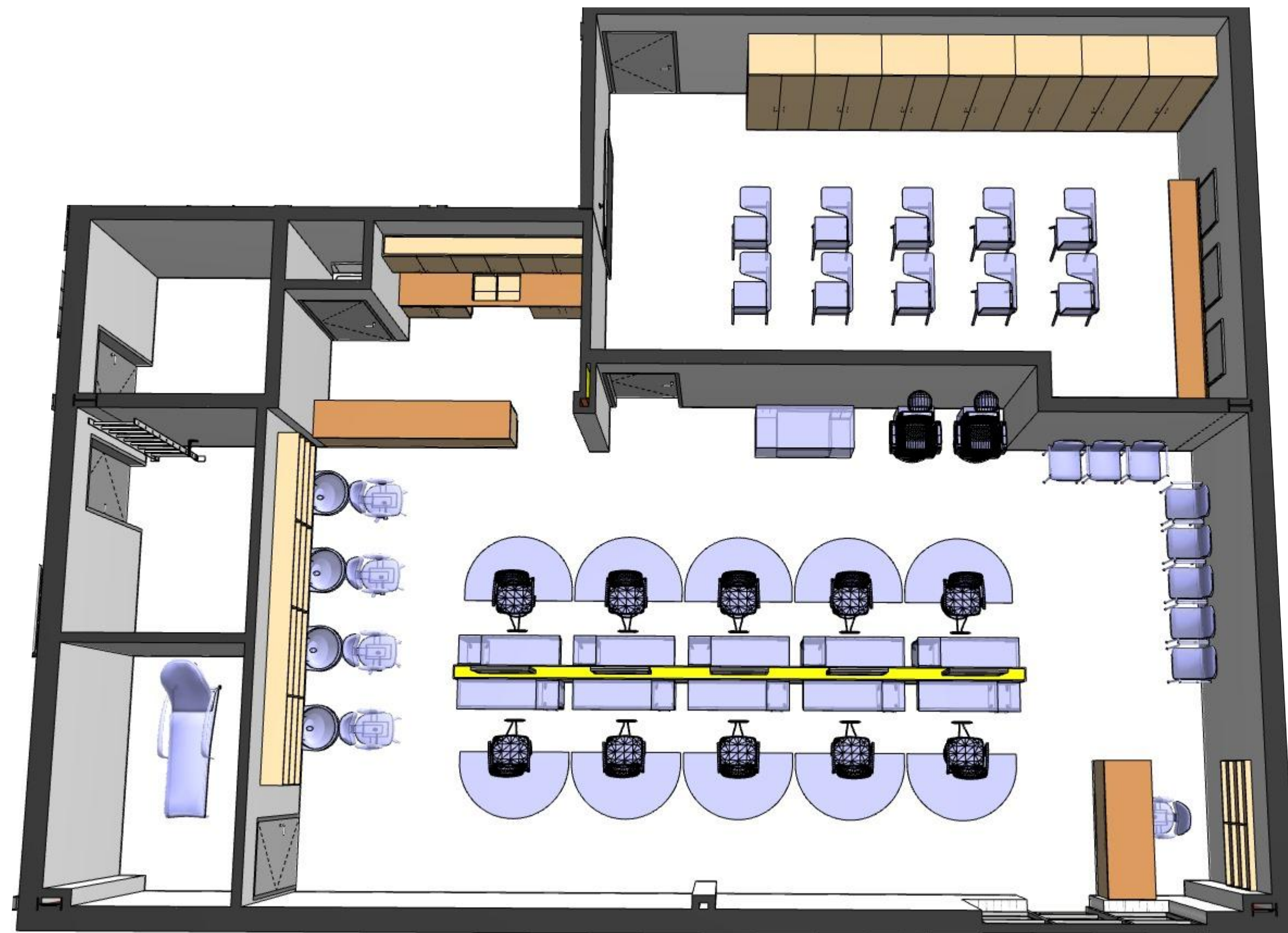
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1 COSMETOLOGY 1
SCALE: 3/16" = 1'-0"



2 COSMETOLOGY 2
SCALE: 3/16" = 1'-0"



3 COSMETOLOGY ABOVE
SCALE: 3/16" = 1'-0"

3D RENDERINGS ARE PROVIDED FOR GRAPHICAL REPRESENTATION OF DESIGN INTENT. THEY ARE ONLY PROVIDED AS REFERENCE MATERIAL AND ARE NOT TO BE USED FOR CONSTRUCTION.



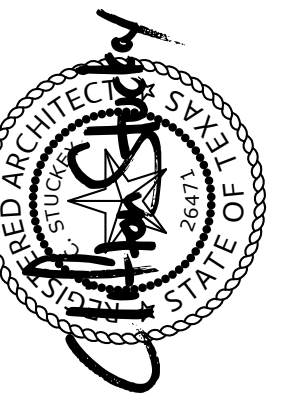
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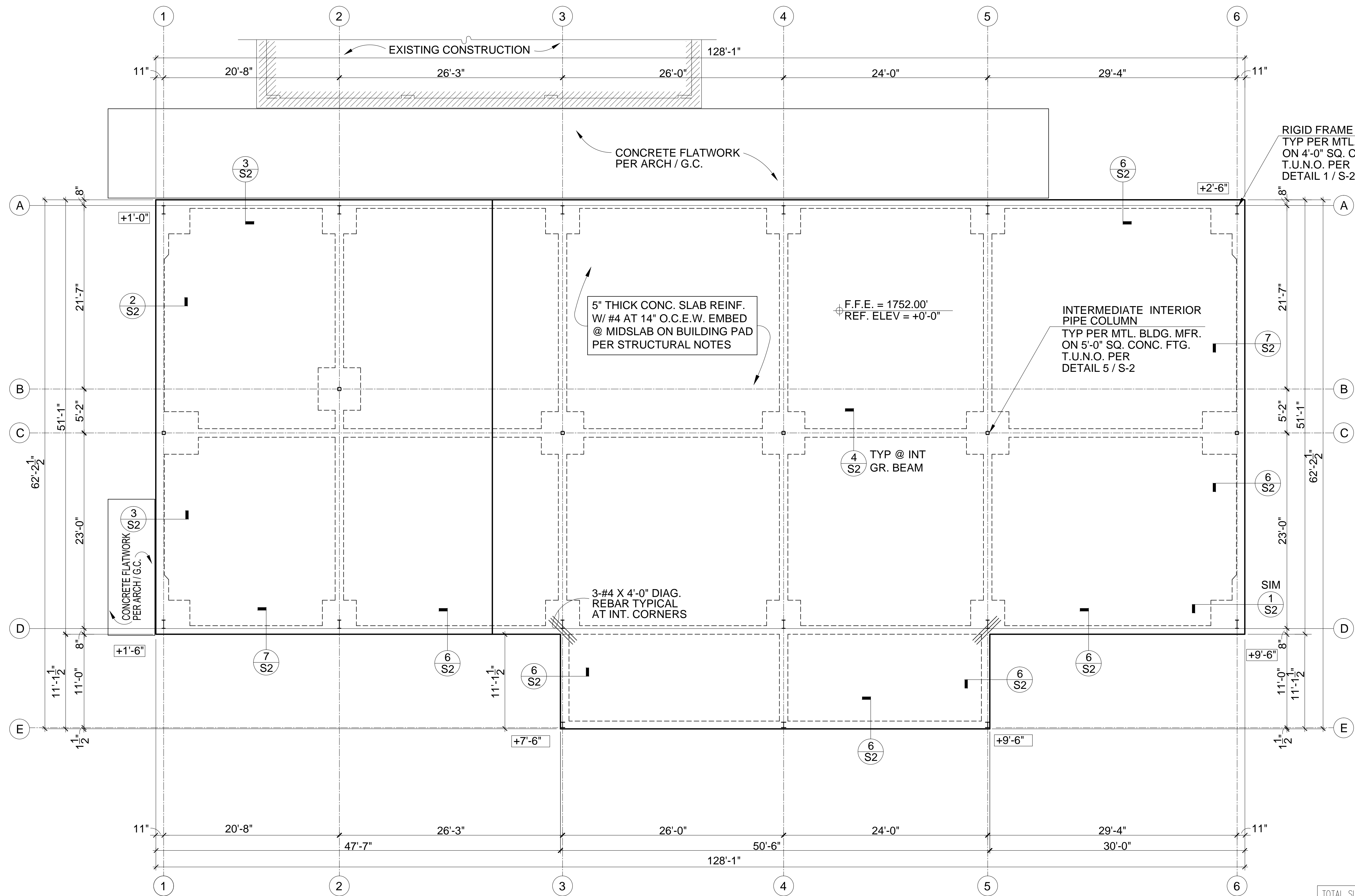
Brady Independent School District
BOND 2018 PROJECTS
Brady, Texas
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4/4/2019

Sheet Number



RIGID FRAME COLUMN
TYP PER MTL. BLDG. MFR.
ON 4'-0" SQ. CONC. FTG.
T.U.N.O. PER DETAIL 1 / S-2

FOUNDATION PLAN

SCALE: 3/16"=1'-0"

PLAN NOTES:

1. VERIFY ALL SLABDROP, PLUMBING, ELECTRICAL, AND MISC. SLAB INFORMATION WITH ARCHITECTURAL DRAWINGS.
2. SEE SHEET S3 FOR STRUCTURAL NOTES.
3. G.C. SHALL VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND SHALL NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
4. SEE ARCHITECTURAL FOR SLAB DROPS AT ENTRIES AND DOOR THRESHOLD REQUIREMENTS.

5. +0'-6" DENOTES APPROXIMATE FINISH FLOOR ELEVATION ABOVE ADJACENT EXISTING GRADES. THE G.C. SHALL FIELD VERIFY THESE GRADES AND NOTIFY THE ENGINEER WITH ANY DISCREPANCIES FOR INSTRUCTION PRIOR TO CONSTRUCTION.
6. PERFORM A THREE DAY WET CURE ON ALL CONCRETE SLABS PRIOR TO APPLICATION OF THE CURING COMPOUND PER SPECIFICATIONS.
7. NOTIFY LOC 36 HOURS PRIOR TO PLACEMENT OF CONCRETE FOR A REBAR INSPECTION. FAILURE TO NOTIFY LOC FOR REBAR INSPECTION SHALL NEGATE ANY LIABILITY FOR THE PERFORMANCE OF THE FOUNDATION DESIGN.

NOTE: FIELD VERIFY LOCATION OF REQUIRED RETAINING WALL DETAILS AS REQUIRED

TOTAL SLAB AREA = 7066 SQ. FT.

S18212

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Brady Independent School District
Bond 2018
Brady, Texas

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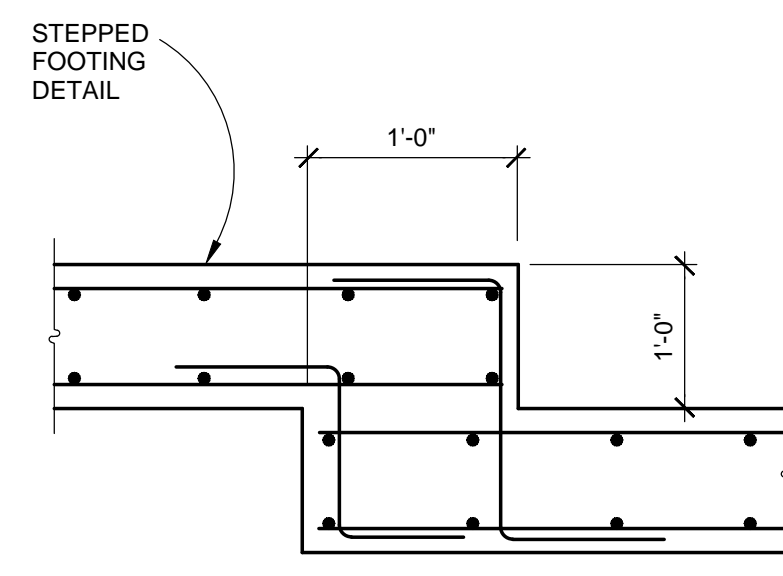
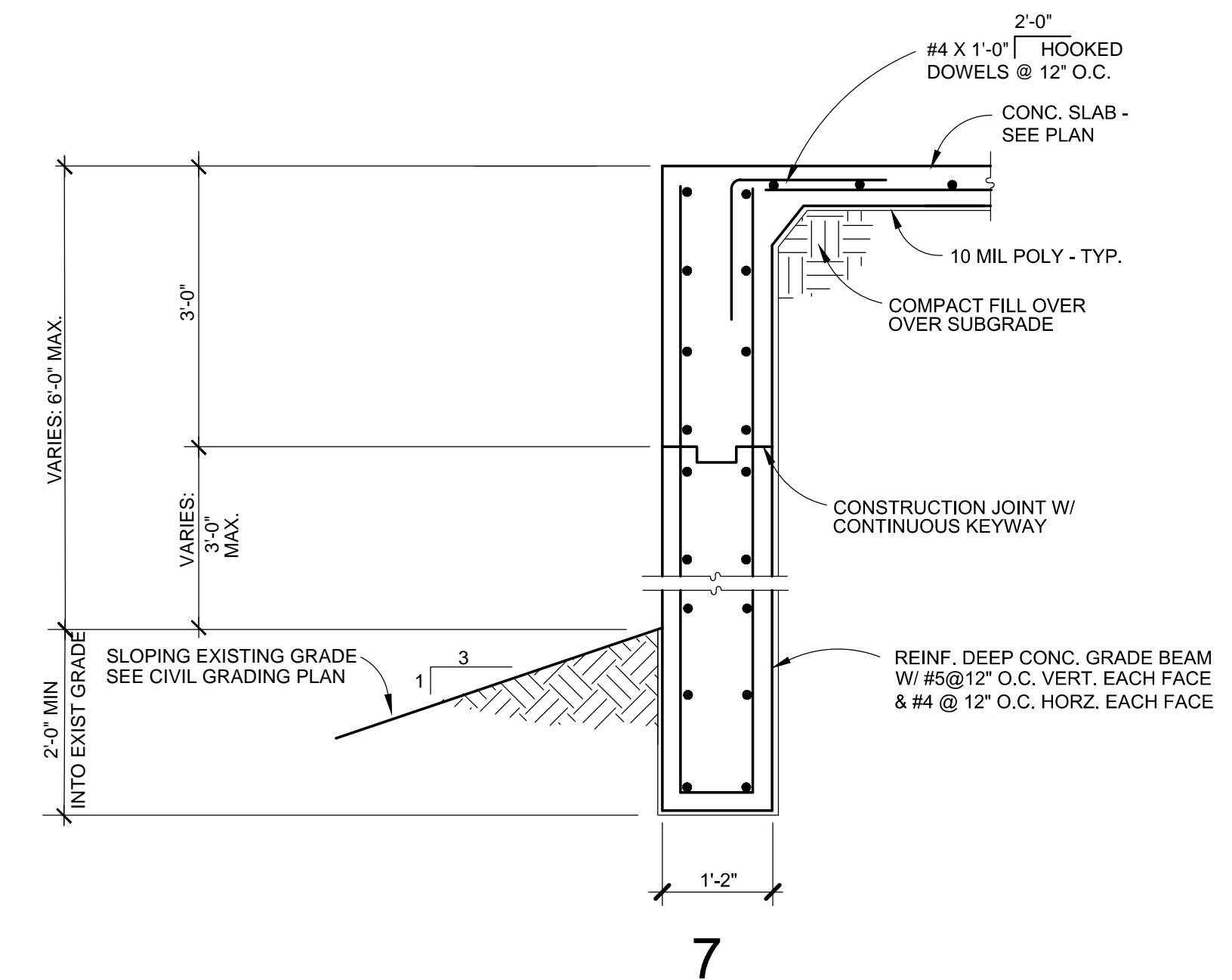
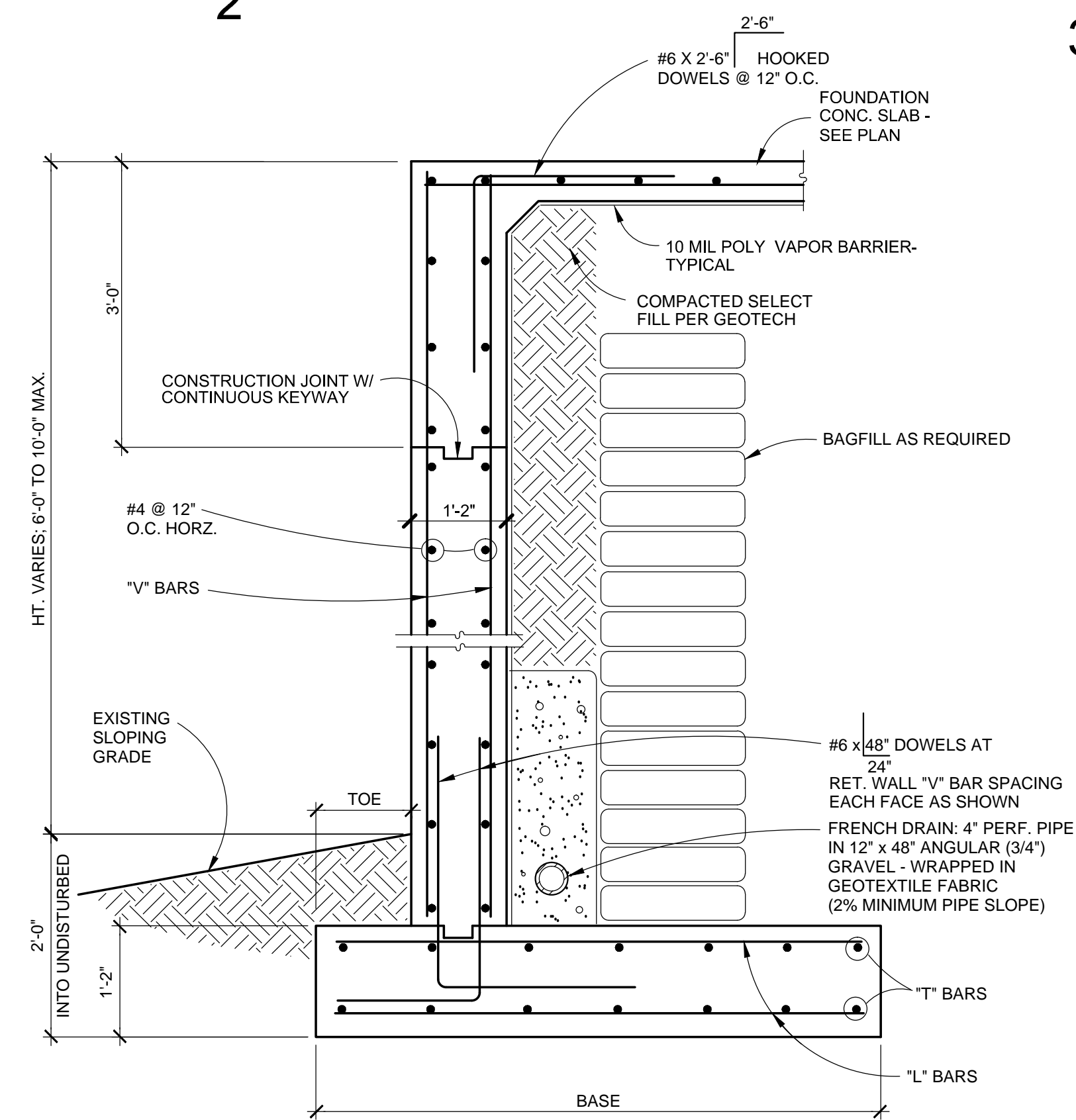
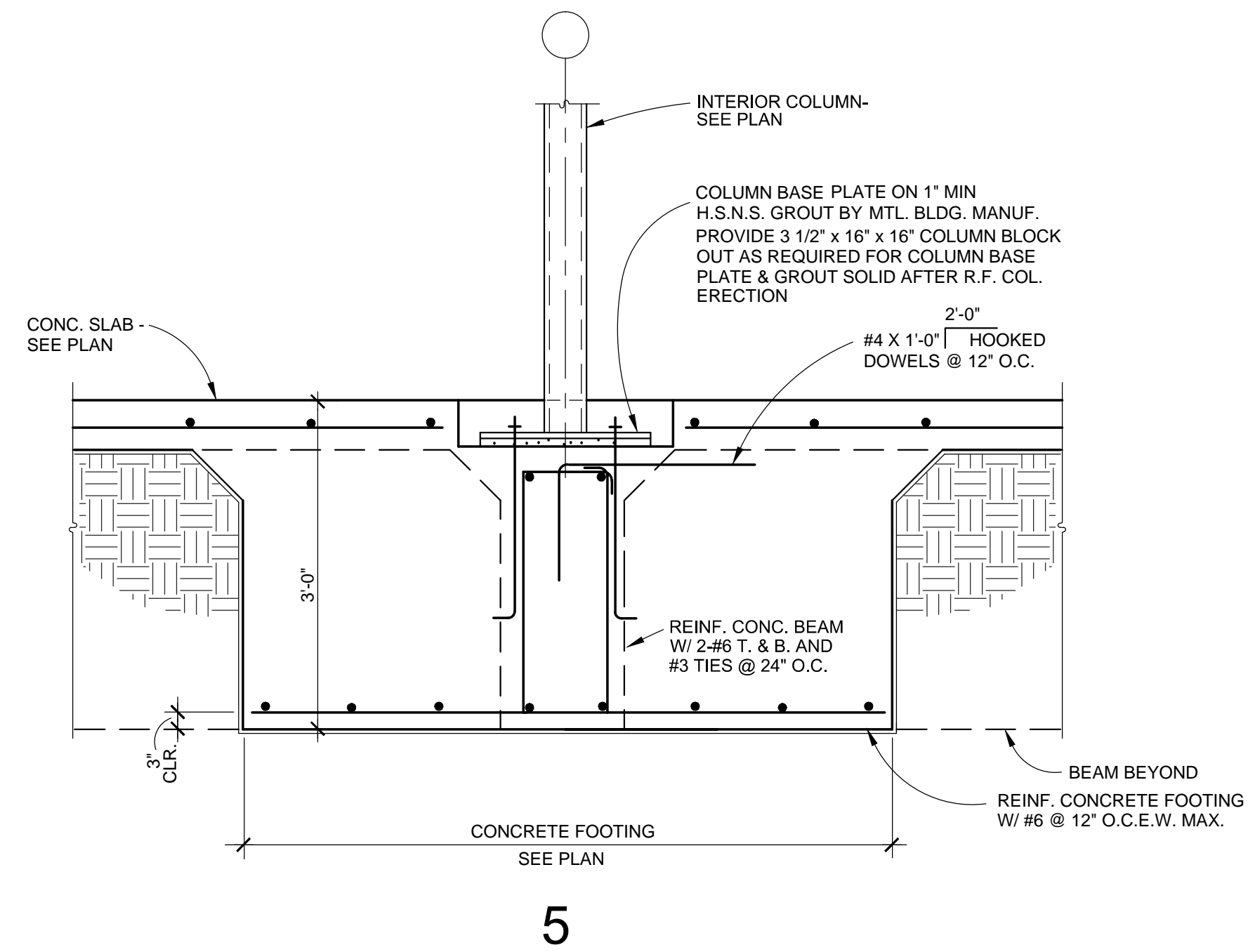
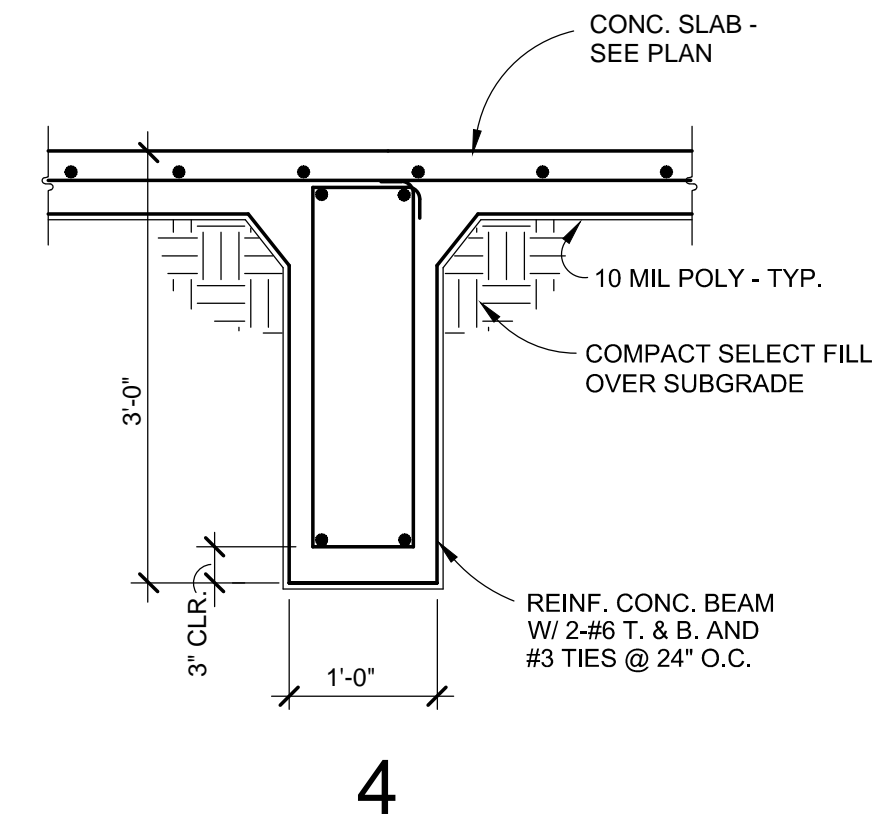
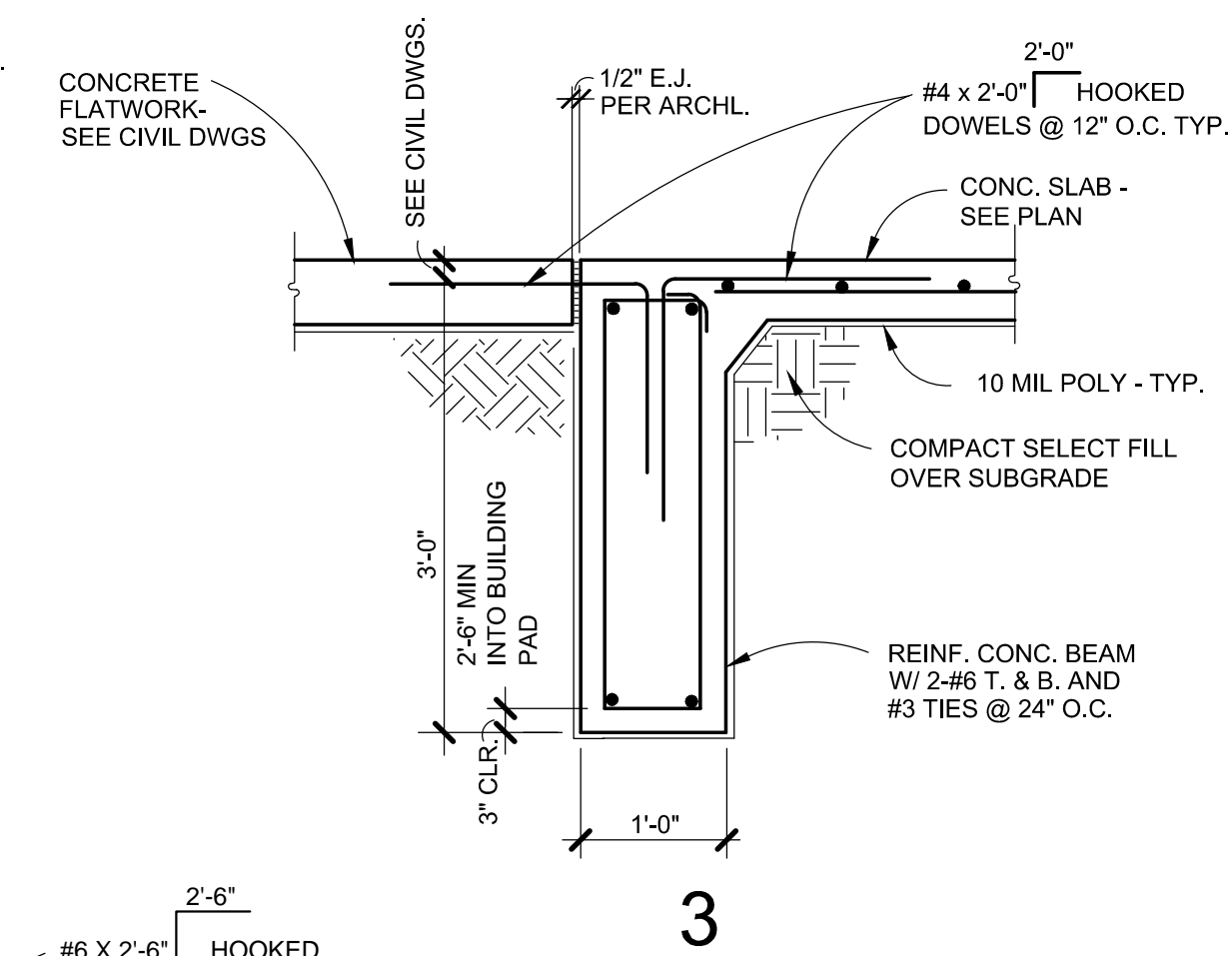
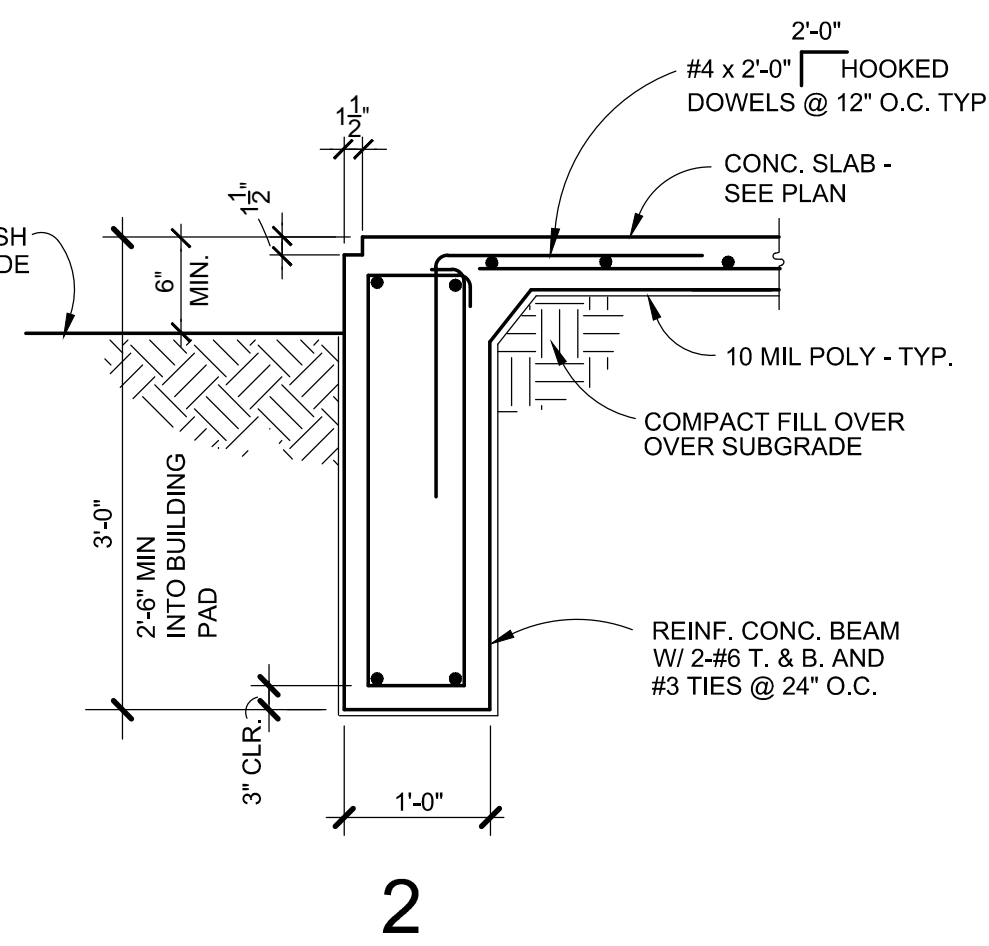
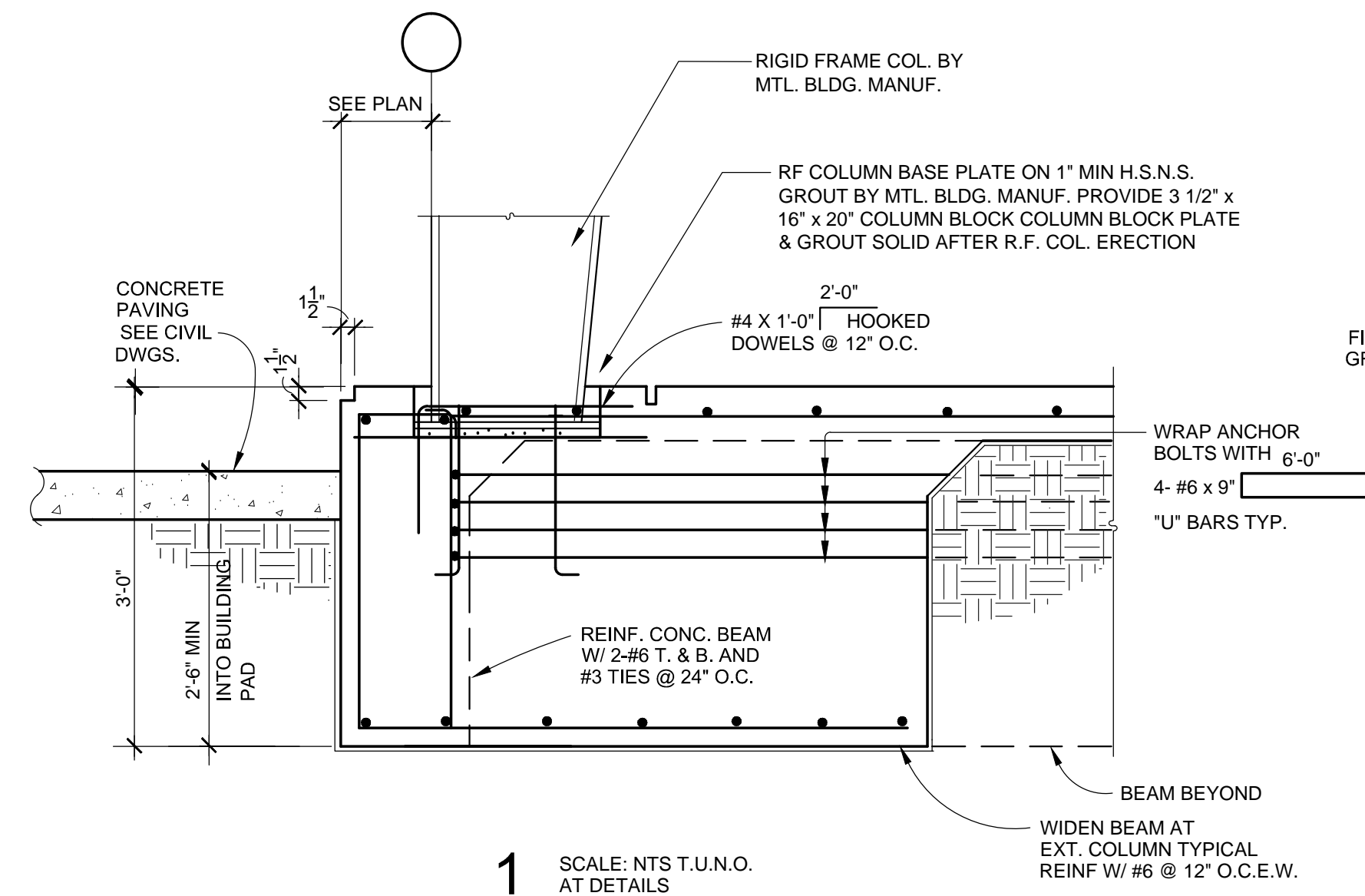
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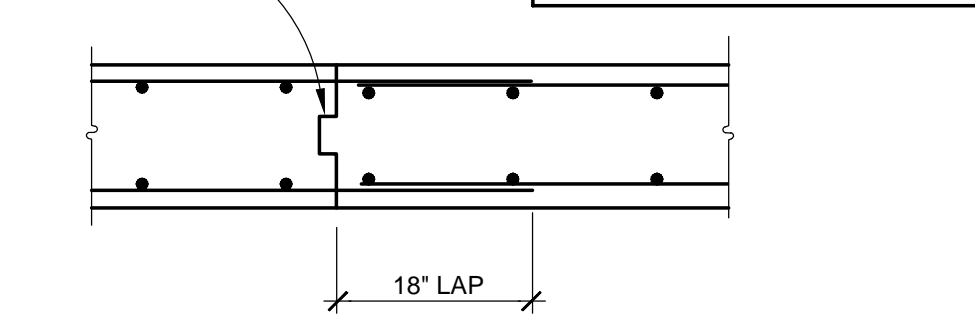
of 3



6 DEEP BEAM / RETAINING WALL SECTION
NO SCALE

RETAINING WALL SCHEDULE					
HT.	BASE	TOE	"V" BARS	"L" BARS	"T" BARS
6'-0"	3'-6"	1'-0"	#4 @ 12"	#4 @ 12"	#4 @ 12"
8'-0"	4'-0"	1'-0"	#5 @ 12"	#4 @ 12"	#4 @ 12"
10'-0"	4'-0"	1'-0"	#5 @ 12"	#5 @ 12"	#5 @ 12"

NOTE: STEP FOOTING IN 1'-0" INCREMENTS AS REQUIRED AT SLOPING GRADE



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STRUCTURAL NOTES

GENERAL

1. BUILDING CODE: IBC 2015.
2. STRUCTURAL CONCRETE: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI, 318-ADOPTED EDITION.
3. STRUCTURAL STEEL: MANUAL OF STEEL CONSTRUCTION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, EIGHTH EDITION.
4. THE FOUNDATION DESIGN IS BASED UPON GEOTECHNICAL INFORMATION PROVIDED BY SKG ENGINEERING, REPORT NO. 19-E-0129, DATED FEBRUARY 20, 2019

DESIGN LOADS

1. LIVE LOADS
 - A. PUBLIC AREAS, CORRIDORS, LOBBIES100 PSF
 - B. WIND LATERAL LOAD - ASCE / SEI 7-10 REQUIREMENTS
 - C. MISC. LOADS - ASCE/SEI 7-10 , EXPOSURE C.
2. DEAD LOADS
 - A. SELF WEIGHT OF BUILDING ELEMENTS

BUILDING PAD

I. SITE PREPARATION

PRIOR TO PLACING ANY FILL MATERIAL, REMOVE 3'-0" MINIMUM TO ACHIEVE A 3'-0" THICK BUILDING AND OVER THE PROOFROLLED AND COMPACTED SUBGRADE. ALL EXPOSED SURFACES SHALL THEN BE PROOF ROLLED SCARIFIED, WATERED AS REQ'D, MOISTURE CONDITIONED & RECOMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698 (STANDARD PROCTOR TEST) AT A MOISTURE CONTENT WITHIN THREE PERCENT OF THE OPTIMUM MOISTURE VALUE. ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED & BACK FILLED WITH ENGINEERED FILL. THE SITE SHALL THEN BE FILLED TO GRADE USING A SELECT FILL MATERIAL, FREE FROM DELETERIOUS MATTER. FILL MATERIALS SHALL BE PLACED IN SIX TO EIGHT INCH LOOSE LIFTS AT MOISTURE CONTENTS WITHIN THREE PERCENT OF THE OPTIMUM MOISTURE VALUE AND EACH LIFT COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED IN ASTM D698. EACH LIFT SHALL BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER BEFORE ANOTHER LIFT IS ADDED.

II. SELECT FILL

SELECT FILL IMPORTED TO THE SITE SHALL BE TXDOT TYPE A, GRADE 2 LIMESTONE AND SHALL MEET THE FOLLOWING CRITERIA:
 PERCENT PASSING THE NO. 4 SIEVE: 50% TO 80% (20% TO 50% AGGREGATE)
 PERCENT PASSING THE NO. 20 SIEVE: 20% TO 50%
 PI OF SOIL PASSING THE NO. 40 SIEVE: 4 TO 20
 MAXIMUM SIZE OF GRAVEL OR ROCK FRAGMENTS: 2 INCHES IN ANY DIMENSION.

CONCRETE

1. ALL CONCRETE SHALL BE STONE AGGREGATE CONCRETE UNLESS NOTED OTHERWISE. MINIMUM CONCRETE COMPRESSIVE STRENGTH WHEN TESTED AT 28 DAYS, SHALL BE 3000 POUNDS PER SQUARE INCH.
2. CONCRETE FLOOR SLAB SHALL BE PLACED MONOLITHICALLY WITH BEAMS.
3. HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS SHALL BE PERMITTED ONLY WHERE INDICATED ON THE DRAWINGS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS - SEE DRAWINGS FOR TYPICAL DETAIL. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR CONSTRUCTIONS JOINTS NOT SHOWN ON DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.
4. NO CONDUIT OR PIPING LARGER THAN 2" I.D. SHALL BE RUN IN STRUCTURAL CONCRETE MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS.
5. ALL PIPE SLEEVES IN CONCRETE MEMBERS SHALL BE SCHEDULE 40, PVC PIPE UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS. LOCATION OF SLEEVES SHALL BE AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 3 ADDITIONAL STIRRUPS EACH SIDE OF EACH SLEEVE IN BEAMS AND SPACED AS DIRECTED BY THE ENGINEER.
6. REINFORCING STEEL SHALL BE DEFORMED NEW BILLET STEEL BARS IN ACCORDANCE WITH A.ST.M. SPECIFICATION A615 GRADE 60.
7. ALL STIRRUPS SHALL BE GRADE 60 WITH STANDARD 90 DEGREE HOOKS.
8. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL.
9. PROVIDE 2-#6 X 4'-0" "L" SHAPED BARS TOP AND BOTTOM AT ALL CORNERS AND "T" INTERSECTIONS OF BEAMS.
10. ALL HOOKS AND BENDS IN REINFORCING BARS SHALL CONFORM TO ACI STANDARDS UNLESS SHOWN OTHERWISE.
11. LAP CONTINUOUS UNSCHEDULED REINFORCING BARS 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
12. TACK WELDING ON REINFORCING STEEL WILL NOT BE PERMITTED.
13. HEAT SHALL NOT BE USED IN THE FABRICATION OR INSTALLATION OF REINFORCEMENT.
14. REINFORCING STEEL COVERAGE SHALL BE AS FOLLOWS:

A) GRADE BEAMS -	1 1/2" TOP, 3" BOTTOM, 2" SIDE FORMED, 3" SIDE AGAINST EARTH
------------------	--
15. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS WITH 90 DEGREE BENDS AND 12" RETURNS ALONG EACH WALL AT CORNERS.
16. CONCRETE POURS SHALL NOT EXCEED 5000 SQUARE FEET OR 100 LINEAR FEET ON ANY SIDE.

COORDINATION

1. ONLY CERTAIN OF THE REQUIRED SLEEVE OPENINGS IN STRUCTURAL FRAMING COMPONENT MEMBERS, AND ONLY CERTAIN OF THE REQUIRED FRAMED OPENINGS IN AND/OR THROUGH STRUCTURAL ASSEMBLY ARE INDICATED ON THE STRUCTURAL SERIES DRAWINGS. HOWEVER, ALL SLEEVES, INSERTS AND OPENINGS, INCLUDING FRAMES AND/OR SLEEVES, THEREFORE, SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING WORK. THE PROVIDING FOR SLEEVES OR FRAMED OPENINGS SHALL INCLUDE THE VERIFICATION OF SIZES, ALIGNMENT, DIMENSIONS, POSITION, LOCATIONS, ELEVATIONS AND GRADES AS REQUIRED TO SERVE THE INTENDED PURPOSE. OPENINGS NOT INDICATED ON THE STRUCTURAL SERIES DRAWINGS, BUT REQUIRED AS ABOVE, SHALL HAVE BEEN APPROVED BY THE ENGINEER.
2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SERIES DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, DRAINS AND LOCATION OF DEPRESSED AND ELEVATED FLOOR AREAS.
3. STRUCTURAL SERIES DRAWINGS SHALL BE COMPARED WITH DRAWINGS OF OTHER SERIES; DIFFERENCES SHALL BE REFERRED TO THE ARCHITECT FOR INSTRUCTION.
4. COMPATIBILITY OF ACCOMMODATION AND PROVISION FOR BUILDING EQUIPMENT SUPPORTED ON OR FROM STRUCTURAL COMPONENTS SHALL BE VERIFIED AS TO SIZE, DIMENSIONS, CLEARANCES, ACCESSIBILITY, WEIGHTS, AND REACTION WITH THE EQUIPMENT FOR WHICH THE ACCOMMODATION HAS BEEN DESIGNED PRIOR TO SUBMISSION OF SHOP DRAWINGS AND SUBMITTAL DATA FOR EACH EQUIPMENT AND FOR STRUCTURAL COMPONENTS; DIFFERENCES SHALL BE REFERRED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL OR NOTATION.
5. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AN SUBMITTED FOR REVIEW BY THE ENGINEER. ENGINEERING CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ANY ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUS SHOP DRAWINGS SUBMITTED SHALL BE SO NOTED. WRITTEN NOTICE SHALL BE PROVIDED FOR EACH DEVIATION FROM THE CONTRACT DOCUMENTS AND FROM PREVIOUS SUBMITTALS.
6. THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.
7. ALL DIMENSIONS AND CONDITIONS OF EXISTING IMPROVEMENTS SHALL BE VERIFIED AT THE JOB SITE; DIFFERENCES BETWEEN EXISTING IMPROVEMENTS AND DRAWINGS SHALL BE REFERRED TO THE ARCHITECT FOR INSTRUCTION.

SUBSTITUTIONS

1. ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE BIDDING PERIOD. ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WITH AN IDENTIFIED SAVINGS SHALL BE DEDUCTED FROM THE CONTRACT.

REQUIRED SPECIAL INSPECTIONS (Structural)

REQUIRED INSPECTION	REFERENCED STANDARD	SPECIAL INSPECTOR
1. STRUCTURAL STEEL:	SECTION 1705.2 AISC 360	
a. FIELD WELDING, HIGH-STRENGTH BOLTING	AISC 360	LOC STRUCTURAL
2. CONCRETE: SECTION 1705.3		
a. INSPECTION OF REINFORCING STEEL PLACEMENT	ACI 318: 3.5, 7.1-7.7	LOC STRUCTURAL
b. INSPECTION OF ANCHORS CAST IN CONCRETE	ACI 318:	LOC STRUCTURAL
c. FRESH CONCRETE IS SAMPLED TO STRENGTH TESTS, SLUMP AND AIR CONTENT TESTS OF THE CONCRETE	ASTM C 172, ASTM C 31	TESTING LAB
3. SOILS:	SECTION 1705.6	TESTING LAB
4. CAST-IN-PLACE DEEP FOUNDATIONS	SECTION 1705.8	TESTING LAB

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Bond 2018
 Brady, Texas

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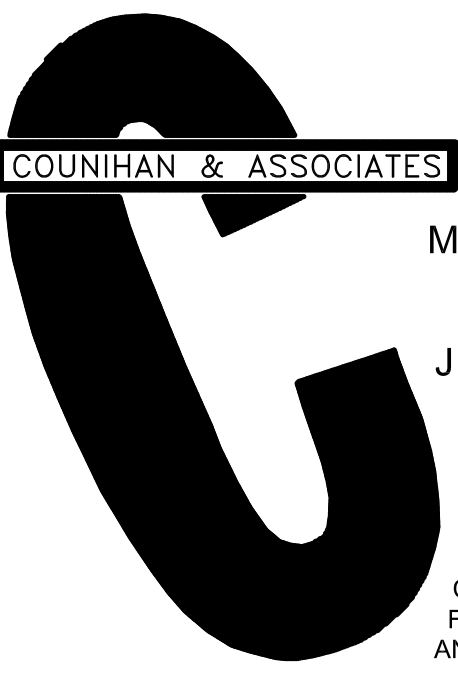
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Not for regulatory
 approval,
 permitting and/or
 construction



BRADY ISD CULINARY ARTS KITCHEN/CLASSROOM SCHEDULE		
ITEM	QTY	DESCRIPTION
1	1	AIR DOOR - WALL MOUNT
2	1	ICE MACHINE W/BIN AND FILTER
2A	1	FILTER - WALL MOUNT
3	1	FLOOR TROUGH
4	2	ENCLOSED CART
5	4	MOBILE SHELVING
6	1	WALK-IN COOLER/FREEZER
7	LOT	WALK-IN COOLER/FREEZER SHELVING
8	1	DOUBLE DOOR FREEZER
9	1	DOUBLE DOOR REFRIGERATOR
10	1	OPEN BASE STAINLESS STEEL TABLE W/RISER/DRAWER
11	3	INGREDIENT BIN - MOBILE
12	1	PREP TABLE WITH RISER/SINK/FAUCET/DRAWER
12A	1	SERVICE FAUCET
13	1	PREP TABLE WITH RISER
13A	1	MANUAL CAN OPENER - TABLE MOUNT
14	1	SLICER STAND - MOBILE
15	1	SLICER
16	1	MIXER
17	1	MIXER STAND - MOBILE
18	5	HAND SINK - WALL MOUNT
19	1	FOOD PROCESSOR
20	1	EXHAUST HOOD WITH FIRE SUPPRESSION SYSTEM
21	1	DOUBLE CONVECTION OVEN
22	1	SINGLE STEAMER WITH STAND
23	1	4-BURNER RANGE WITH OVEN
24	1	GRIDDLE WITH OVEN
25	1	SALAMANDER - WALL MOUNT
26	1	FRYER
27	1	FRYER DUMP STATION
28	1	CUSTOM CHEF TABLE W/LOAD CENTER/UPPER SHELVES/WARMING LIGHTS/DUAL TEMP 2 WELL DROP-IN
28A	1	UPPER SHELVES
28B	LOT	WARMING LIGHTS
28C	1	DUAL TEMP 2 WELL DROP-IN
29	1	DRESSING TABLE
30	1	MICROWAVE
31	1	TOASTER
32	1	HOT HOLDING UNIT
33	1	PREP TABLE W/RISER/2 SINKS/FAUCET/DRAWER
33A	1	SERVICE FAUCET
34	1	STAINLESS STEEL SHELVING - WALL MOUNT

BRADY ISD CULINARY ARTS KITCHEN/CLASSROOM SCHEDULE		
ITEM	QTY	DESCRIPTION
35	1	SOILED DISH TABLE W/SCRAP SINK/OVERSPRAY
35A	1	OVERSPRAY W/WALL BRACKET
36	1	CONDENSATE HOOD
37	1	CORNER DISH MACHINE
38	1	CLEAN TABLE INTEGRAL WITH #39
39	1	CORNER 3COMPARTMENT SINK W/(2)FAUCETS INTEGRAL W/#38/#40
39A	2	SERVICE FAUCETS
40	1	SOILED TABLE INTEGRAL W/#39
41	1	STAINLESS STEEL SHELVING - WALL MOUNT
42	2	UTILITY CART (NOT SHOWN)
43	1	CUSTOM MILLWORK - COUNTER HEIGHT BY ARCHITECT
44	1	CUSTOM MILLWORK - COUNTER HEIGHT BY ARCHITECT
45	1	CUSTOM MILLWORK W/HAND SINK/FAUCET - BY ARCHITECT
45A	1	GOOSENECK FAUCET
45B	1	DROP-IN SINK
46	1	EXHIBITION/DISPLAY MOBILE TABLE WITH MIRROR
47	LOT	LOCKERS
48	1	CUSTOM LOWER MILLWORK WITH RISER/HAND SINK/FAUCET BY ARCH
48A	1	GOOSENECK FAUCET
48B	1	DROP-IN SINK
49	1	CUSTOM UPPER MILLWORK BY ARCHITECT
50	1	DESK BY ARCHITECT
50A	1	CHAIR BY ARCHITECT
51	1	CUSTOM UPPER MILLWORK BY ARCHITECT
52	LOT	DRY STORAGE SHELVING
52A	1	CAN RACK
53	1	MOP SINK W/SERVICE FAUCET
54	1	WASHER BY OWNER
55	1	DRYER BY OWNER
56	1	HOT WATER HEATER BY ARCHITECT
57	24	CLASSROOM CHAIRS BY ARCHITECT
58	24	ALL WEATHER CHAIRS BY ARCHITECT
59	6	CLASSROOM TABLES BY ARCHITECT
60	6	30" ROUND ALL WEATHER TABLES BY ARCHITECT
61	LOT	STAINLESS STEEL WALL CLAD
62	LOT	CORNER GUARDS (NOT SHOWN)
63	2	SPEED RACKS (NOT SHOWN)
64	1	TEA MACHINE BY VENDOR
65	1	COFFEE MACHINE BY VENDOR
66	1	MOBILE ICE CADDY
67	1	TEACHING MONITOR - WALL MOUNT BY ARCHITECT
68	1	FLOOR TO CEILING STORAGE MILLWORK BY ARCHITECT
69	1	REFRIGERATED COUNTER TOP MERCHANDISER
70	1	POS BY OWNER

CULINARY ARTS KITCHEN & CLASSROOM LAYOUT 100% CD

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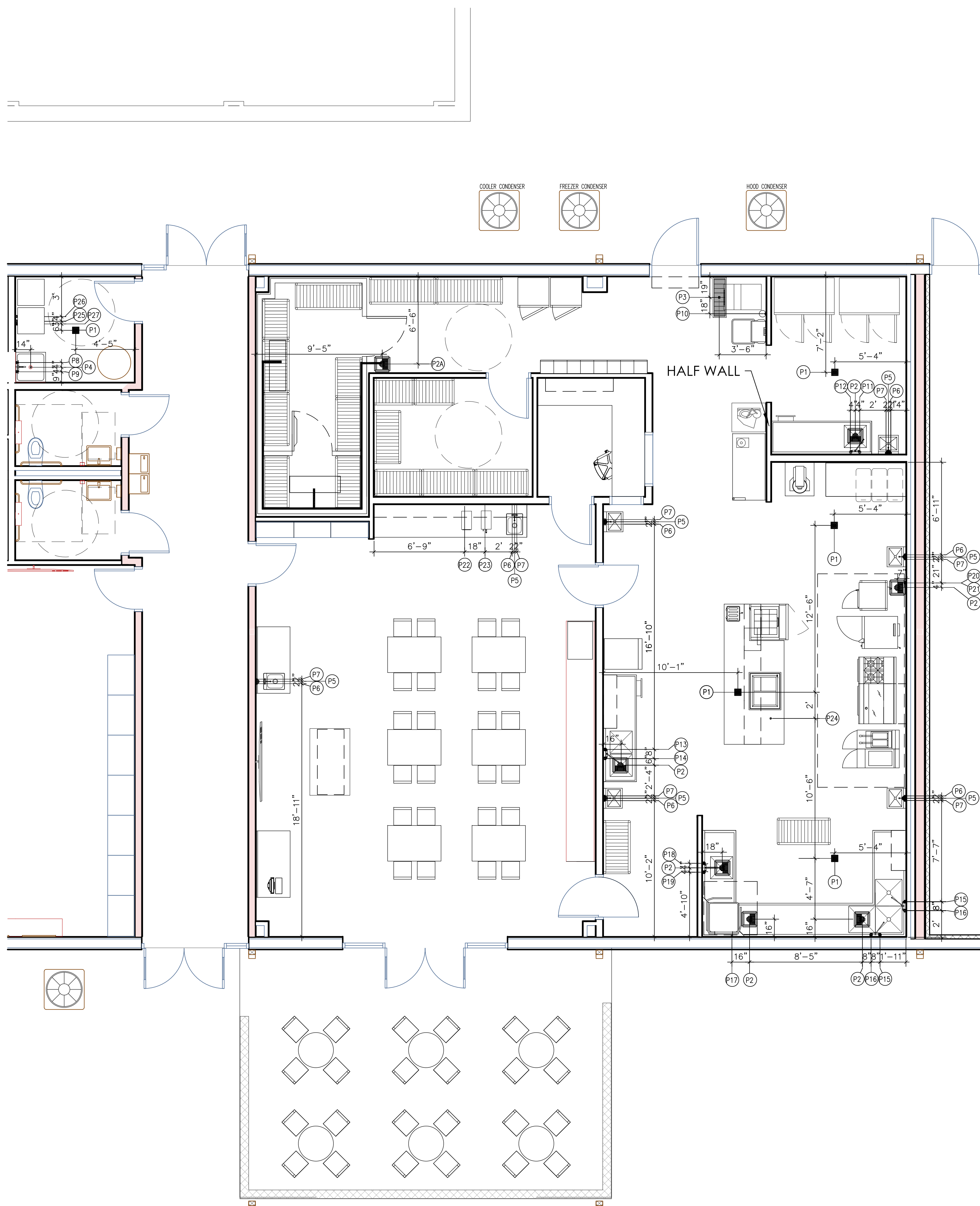
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 Bond 2018
 Brady, Texas

Wednesday, January 9, 2019, 4:09 PM, BIMcloud: RelianceArch - BIMcloud Basic for ARCHICAD 22/1703 Brady ISD Bond 2018/1703 Brady ISD Bond 2018



GENERAL PLUMBING NOTES:

ALL LABOR AND MATERIAL REQUIRED TO MAKE FINAL CONNECTION FROM ROUGH-INS TO EQUIPMENT ARE TO BE SUPPLIED BY PLUMBING CONTRACTOR. PLUMBER TO CONNECT ALL WATER LINES, GAS LINES, WASTE LINES, ETC. TO FULLY CONNECT ALL EQUIPMENT AND RUN CONDENSATE LINES FROM OUTLETS TO DRAINS AND THESE LINES TO BE NO SMALLER THAN THE STUB OUT OF THE FIXTURE. PLUMBER TO PROVIDE ALL GATE VALVES ON WATER LINES. PLUMBER TO PROVIDE, UNLESS OTHERWISE SPECIFIED, ALL TRAPS, VALVES, CUT-OFFS, SHOCK ELIMINATORS, PRESSURE REGULATORS, GAS SHUT OFF VALVES AND NECESSARY FITTINGS AND MATERIALS TO CONNECT ALL LINES FOR PROPER OPERATION OF EQUIPMENT. FAUCETS, DRAIN OUTLETS, FITTINGS IN FIXTURES, AND SPECIALTY ITEMS ARE TO BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AS OUTLINED IN THE ITEM SPECIFICATIONS. PLUMBER TO PROVIDE LABOR AND MATERIAL FOR WATER-CONNECTING OF ADJACENT EQUIPMENT AND CONNECTION OF EQUIPMENT AT FIELD JOINTS. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.

ALL ROUGH-INS AND FINAL CONNECTIONS ARE TO BE PERFORMED IN FULL COMPLIANCE WITH ALL APPLICABLE CODES RELATING TO INSTALLATION AND HOOK-UP OF EQUIPMENT.

ALL PLUMBING OUTLETS AND REQUIREMENTS SHOWN ON THIS PLAN ARE FOR THE FIXTURE AND EQUIPMENT SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR. FOR ANY ADDITIONAL BUILDING PLUMBING REQUIREMENTS, REFER TO OTHER MECHANICAL PLANS.

ALL DIMENSIONS GIVEN ARE FROM COLUMN CENTERLINES AND/OR FINISHED WALLS. ELEVATIONS ARE GIVEN FROM FINISHED FLOOR.

FIRE PROTECTION GAS SHUT OFF VALVES ARE BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBER.

PLUMBING SYMBOLS

● C.W. COLD WATER	■ FS FLOOR SINK
● H.W. HOT WATER	■ EVC EXHAUST VENT CONNECTION
● G GAS SUPPLY	■ SVC SUPPLY VENT CONNECTION
■ SS STEAM SUPPLY	○ FR DIRECT CONN. FLUE RISER
□ CR CONDENSATE RETURN	■ FT FLOOR TROUGH
○ DD DIRECT DRAIN	■ AFF ABOVE FINISHED FLOOR
○ HD HUB DRAIN	■ SUFF STUB UP FROM FLOOR
■ FD FLOOR DRAIN	■ SDFC STUB DOWN FROM CEILING
■ FFD FLOOR DRAIN W/ FUNNEL	■ BTC BRANCH TO CONNECTION

REFER TO HOOD DRAWINGS FOR ALL MEP HOOD INFORMATION.

BRADY ISD CULINARY ARTS KITCHEN/CLASSROOM PLUMBING ROUGH-IN SCHEDULE

ITEM	QTY	DESCRIPTION
P1	5	WASTE - 4" FLOOR DRAIN
P2	6	WASTE - 12" X 12" FLOOR SINK
P2A	1	WASTE - 12" X 12" FLOOR SINK WITH FUNNEL - WALK-IN COOLER/FREEZER CONDENSATE
P3	1	WASTE - 12" X 36" FLOOR TROUGH - ICE MACHINE
P4	1	WASTE - 2" HUB DRAIN - MOP SINK
P5	7	WASTE - 1-1/2" DRAIN @22-3/8" AFF BTC @HAND SINK
P6	7	HW - 1/2" @20" AFF BTC @HAND SINK
P7	7	CW - 1/2" @20" AFF BTC @HAND SINK
P8	1	CW - 1/2" @36" AFF BTC @SERVICE FAUCET - MOP SINK
P9	1	HW - 1/2" @36" AFF BTC @SERVICE FAUCET - MOP SINK
P10	1	CW - 1/2" @60" AFF BTC @FILTER BTC @ICE MACHINE
P11	1	HW - 1/2" @20" AFF BTC @SINGLE COMPARTMENT SINK IN TABLE
P12	1	CW - 1/2" @20" AFF BTC @SINGLE COMPARTMENT SINK IN TABLE
P13	1	CW - 1/2" @20" AFF BTC @TWO COMPARTMENT SINK
P14	1	HW - 1/2" @20" AFF BTC @TWO COMPARTMENT SINK
P15	2	HW - 1/2" @20" AFF BTC @THREE COMPARTMENT SINK
P16	2	CW - 1/2" @20" AFF BTC @THREE COMPARTMENT SINK
P17	1	HW - 3/4" @19" AFF BTC @DISH MACHINE
P18	1	CW - 1/2" @20" AFF BTC @SCRAP SINK/OVERSPRAY
P19	1	HW - 1/2" @20" AFF BTC @SCRAP SINK/OVERSPRAY
P20	1	CW - 3/4" @52" AFF BTC @FILTER BTC @STEAMER, 20-60 PSI (138-414kPa)
P21	1	CW - 3/4" @22" AFF BTC @STEAMER, 20-60 PSI (138-414kPa)
P22	1	CW - 1/4" @45" AFF BTC @COFFEE MACHINE
P23	1	CW - 1/4" @45" AFF BTC @TEA BREWER
P24	1	CW - 3/4" SUFF @4" AFF BTC @DUAL TEMP WELL
P25	1	HW - 1/2" @36" AFF BTC @WASHING MACHINE
P26	1	CW - 1/2" @36" AFF BTC @WASHING MACHINE
P27	1	WASTE - 2" @36" AFF BTC @ @WASHING MACHINE

CULINARY ARTS KITCHEN & CLASSROOM PLUMBING ROUGH-INS & SCHEDULE
100% CD

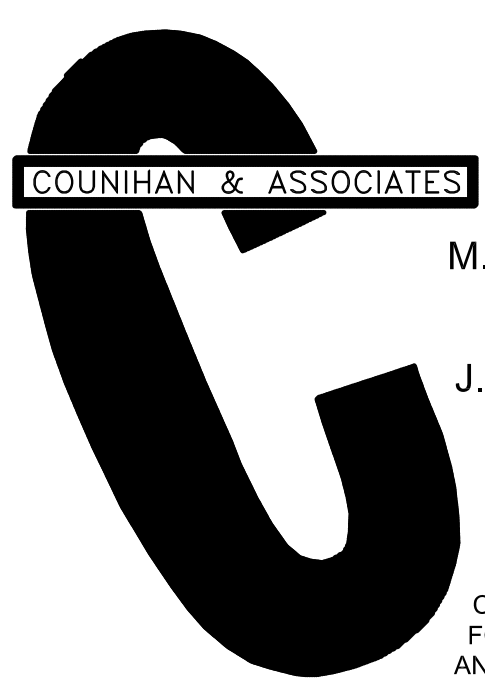


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Brady Independent School District
Bond 2018
Brady, Texas

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GENERAL ELECTRICAL NOTES:
 ALL LABOR AND MATERIAL REQUIRED TO MAKE FINAL CONNECTION FROM ROUGH-INS TO EQUIPMENT ARE TO BE BY ELECTRICAL CONTRACTOR. ELECTRICIAN TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES AS CALLED FOR IN THE SPECIFICATIONS. ALL DISCONNECT SWITCHES REQUIRED ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICIAN AT THE TIME OF INSTALLATION.
 OUTLET COVER PLATES ARE TO BE STAINLESS STEEL AND ARE TO BE FURNISHED BY THE ELECTRICIAN AS WELL AS THE RECEPTACLE, UNLESS OTHERWISE SPECIFIED IN THE ITEM SPECIFICATIONS. ELECTRICIAN TO PROVIDE LABOR AND MATERIAL FOR INTER-CONNECTING OF ADJACENT EQUIPMENT AND CONNECTING OF EQUIPMENT AT FIELD JOINTS.
 ALL ROUGH-INS AND FINAL CONNECTIONS ARE TO BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES RELATING TO INSTALLATION AND HOOK-UP OF EQUIPMENT. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 ALL ELECTRICAL OUTLETS AND REQUIREMENTS ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR. FOR ANY ADDITIONAL BUILDING ELECTRICAL REQUIREMENTS, SEE OTHER PLANS.
 ALL DIMENSIONS GIVEN ARE FROM COLUMN CENTERLINE AND/OR FINISHED WALLS.

ELECTRICAL SYMBOLS SYMBOLS AND ABBREVIATIONS	ELECTRICAL SYMBOLS SYMBOLS AND ABBREVIATIONS
▼ TELEPHONE JACK	⊕ GROUND FAULT INT. OUTLET
▼ FLOOR MTD. TELEPHONE JACK	⊕ SWITCHED OUTLET
▼ DATA JACK	⊕ SPECIAL OUTLET
▼ FLOOR MTD. DATA JACK	⊕ CABLE JACK
⊕ SINGLE OUTLET	⊕ JUNCTION BOX
⊕ DUPLEX OUTLET- WALL MTD.	⊕ JB
⊕ DUPLEX OUTLET- FLOOR MTD.	⊕ JUNCTION BOX
⊕ DUPLEX OUTLET- CLG MTD.	⊕ QB
⊕ QUADRUPLX OUTLET-WALL MTD.	⊕ QUADRUPLX OUTLET
⊕ QUADRUPLX OUTLET- FLOOR MTD.	⊕ CO
⊕ QUADRUPLX OUTLET- CLG MTD.	⊕ CONVENIENCE
	⊕ SUFF
	⊕ STUB UP FROM FLOOR
	⊕ SDFC
	⊕ STUB DOWN FROM CEILING
	⊕ AT
	⊕ AFF
	⊕ ABOVE FINISH FLOOR
	⊕ BTC
	⊕ BRANCH TO CONNECTION

REFER TO HOOD DRAWINGS FOR ALL MEP HOOD INFORMATION.

ITEM	QTY	DESCRIPTION
E1	2	JB-115/60/1PH SDFC BTC @COOLER AND FREEZER LIGHT, DOOR HEATER & ALARM, 2.1 AMPS
E2	1	JB-115/60/1PH SDFC BTC @WALK-IN COOLER EVAPORATOR, 1.6 AMP (FANS)
E3	1	JB-208/230/60/1PH SDFC BTC @WALK-IN FREEZER EVAPORATOR, 1 AMPS (FANS), 9.8 AMPS (HTR.)
E4	1	JB-208/230/60/1PH SDFC BTC @WALK-IN COOLER REMOTE CONDENSER, 7.2 AMPS
E5	1	JB-208/230/60/1PH SDFC BTC @WALK-IN FREEZER REMOTE CONDENSER, 18.1 AMPS
E6	1	JB-115/60/1PH @65" AFF BTC @ICE MACHINE 15 AMPS,
E7	1	CO-115/60/1PH @48" AFF - DOUBLE DOOR REFRIGERATOR, 3-WIRE, NEMA 5-15P, 8 AMPS
E8	1	CO-115/60/1PH @48" AFF - DOUBLE DOOR FREEZER, 3-WIRE, NEMA 5-15P, 9.6 AMPS
E9	1	CO-120/60/1PH @45" AFF - FOOD PROCESSOR, NEMA 5-15P, 7 AMPS
E10	1	CO-120/60/1PH @48" AFF - HEATED HOLDING UNIT, NEMA 5-20P, 17.5 AMPS
E11	2	CO-120/60/1PH (1) @44" & (1) @18" AFF - DOUBLE CONVECTION OVEN, 7.7 AMPS PER SECTION
E12	1	CO-120/60/1PH @40" AFF - STEAMER ON STAND, NEMA 5-15P, 1 AMPS EACH
E13	1	CO-115/60/1PH @30" AFF - 36" GRIDDLE AND OVEN, NEMA 5-15P, 4 AMPS
E14	1	CO-115/60/1PH @30" AFF - FRYER DUMP STATION, NEMA 5-15P, 6.3 AMPS
E15	1	JB-208/60/3PH @60" AFF BTC @DISH MACHINE, 50 AMP CIR. REQ.
E16	11	CO-120/60/1PH @45" AFF - EXTRA, 20 AMPS
E17	1	JB-115/60/1PH @6" AFF BTC @CHEF TABLE W/LOAD CENTER TO SERV. 2-(#E29)/1-(#E20)/1-(#E21)
E18	1	CO-115/60/1PH @30" AFF - SLICER ON STAND, 1/2 HP, 5.6 AMPS
E19	1	CO-115/60/1PH @30" AFF - MIXER ON STAND, 8.6 AMPS
E20	1	CO-120/60/1PH - MICROWAVE ON SHELF AND TOASTER ON COUNTERTOP, NEMA 5-15, 15 AMPS
E21	1	CO-115/60/1PH - DRESSING TABLE, 3.3 AMPS
E22	1	CO-120/60/1PH @45" AFF - TEA BREWER, 14.4 AMPS
E23	1	JB-120/208/60/1PH @45" AFF BTC @COFFEE MACHINE, 28.8 AMPS
E24	1	JB-120/60/1PH @96 AFF BTC @AIR DOOR, 15 AMPS
E25	5	CO-120/60/1PH @20" AFF - EXTRA, 20 AMPS
E26	1	CO-115/60/1PH @45" AFF - MERCHANDISER, 3.5 AMPS
E27	1	CO-120/240/60/1PH @30" AFF - DRYER, 30 AMPS
E28	1	CO-120/60/1PH @30" AFF - WASHER, 20 AMPS
E29	2	CO-120/60/1PH - EXTRA, 20 AMPS

CULINARY ARTS KITCHEN & CLASSROOM ELECTRIC ROUGH-INS & SCHEDULE 100% CD

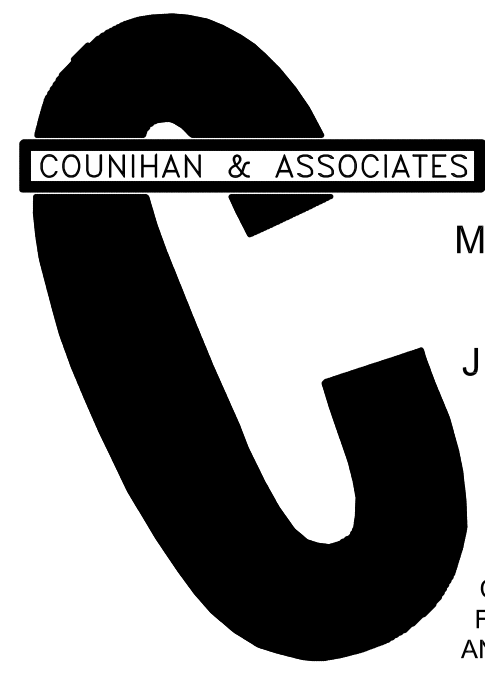


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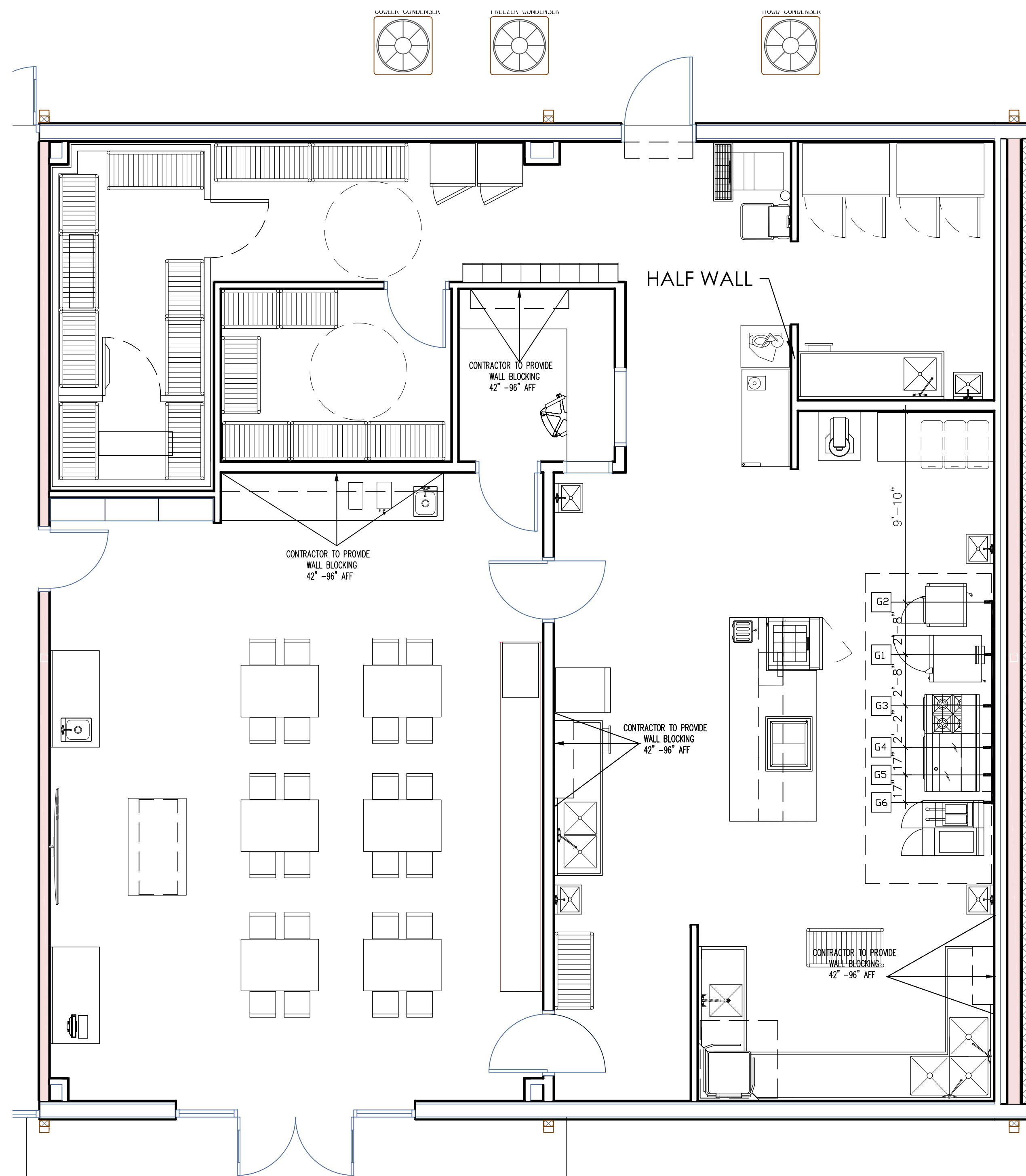
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BRADY ISD CULINARY ARTS KITCHEN/CLASSROOM GAS ROUGH-IN SCHEDULE

ITEM	QTY	DESCRIPTION
G1	2	1/2", NAT GAS, 5" W.C. (1) @9" & (1) @42" AFF 33,000 BTU/HR EACH - #21 DOUBLE CONVECTION OVEN
G2	1	1/2", NAT GAS, 5" W.C. @38" AFF, 60,000 BTU/HR - #22 SINGLE STEAMER ON STAND
G3	1	3/4", NAT GAS, 6" W.C. @30" AFF, 143,000 BTU/HR - #23 (4) BURNER RANGE WITH OVEN
G4	1	3/4", NAT GAS, 5" W.C. @30" AFF, 95,000 BTU/HR - #24 GRIDDLE WITH OVEN
G5	1	3/4", NAT GAS, 5" W.C. @75" AFF, 30,000 BTU/HR - #25 SALAMANDER
G6	1	3/4", NAT GAS, 5" W.C. @7" AFF, 70,000 BTU/HR - #26 FRYER

GAS SHUT OFF LOCATION SHALL BE DETERMINED BY ENGINEER



GENERAL PLUMBING NOTES:

ALL LABOR AND MATERIAL REQUIRED TO MAKE FINAL CONNECTION FROM ROUGH-INS TO EQUIPMENT ARE TO BE SUPPLIED BY PLUMBING CONTRACTOR. PLUMBER TO CONNECT ALL WATER LINES, GAS LINES, WASTE LINES, ETC. TO FULLY CONNECT ALL EQUIPMENT AND RUN CONDENSATE LINES FROM OUTLETS TO DRAINS AND THESE LINES TO BE NO SMALLER THAN THE STUB OUT OF THE FIXTURE. PLUMBER TO PROVIDE ALL GATE VALVES ON WATER LINES. PLUMBER TO PROVIDE, UNLESS OTHERWISE SPECIFIED, ALL TRAPS, VALVES, CUT-OFFS, SHOCK ELIMINATORS, PRESSURE REGULATORS, GAS SHUT OFF VALVES AND NECESSARY FITTINGS AND MATERIALS TO CONNECT ALL LINES FOR PROPER OPERATION OF EQUIPMENT. FAUCETS, DRAIN OUTLETS, FITTINGS IN FIXTURES, AND SPECIALTY ITEMS ARE TO BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AS OUTLINED IN THE ITEM SPECIFICATIONS. PLUMBER TO PROVIDE LABOR AND MATERIAL FOR WATER-CONNECTING OF ADJACENT EQUIPMENT AND CONNECTION OF EQUIPMENT AT FIELD JOINTS. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.

ALL ROUGH-INS AND FINAL CONNECTIONS ARE TO BE PERFORMED IN FULL COMPLIANCE WITH ALL APPLICABLE CODES RELATING TO INSTALLATION AND HOOK-UP OF EQUIPMENT.

ALL PLUMBING OUTLETS AND REQUIREMENTS SHOWN ON THIS PLAN ARE FOR THE FIXTURE AND EQUIPMENT SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR. FOR ANY ADDITIONAL BUILDING PLUMBING REQUIREMENTS, REFER TO OTHER MECHANICAL PLANS.

ALL DIMENSIONS GIVEN ARE FROM COLUMN CENTERLINES AND/OR FINISHED WALLS. ELEVATIONS ARE GIVEN FROM FINISHED FLOOR.

FIRE PROTECTION GAS SHUT OFF VALVES ARE BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBER.

PLUMBING SYMBOLS				
●	C.W.	COLD WATER	FS	FLOOR SINK
●	H.W.	HOT WATER	EVC	EXHAUST VENT CONNECTION
⊙	G	GAS SUPPLY	SVC	SUPPLY VENT CONNECTION
■	SS	STEAM SUPPLY	FR	DIRECT CONN. FLUE RISER
□	CR	CONDENSATE RETURN	FT	FLOOR TROUGH
○	DD	DIRECT DRAIN	AFF	ABOVE FINISHED FLOOR
⊙	HD	HUB DRAIN	SUFF	STUB UP FROM FLOOR
■	FD	FLOOR DRAIN	SDFC	STUB DOWN FROM CEILING
■	FFD	FLOOR DRAIN W/ FUNNEL	BTC	BRANCH TO CONNECTION



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Brady, Texas

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**CULINARY ARTS KITCHEN
& CLASSROOM GAS ROUGH-INS & SCHEDULE
WALL BLOCKING PLAN 100% CD**



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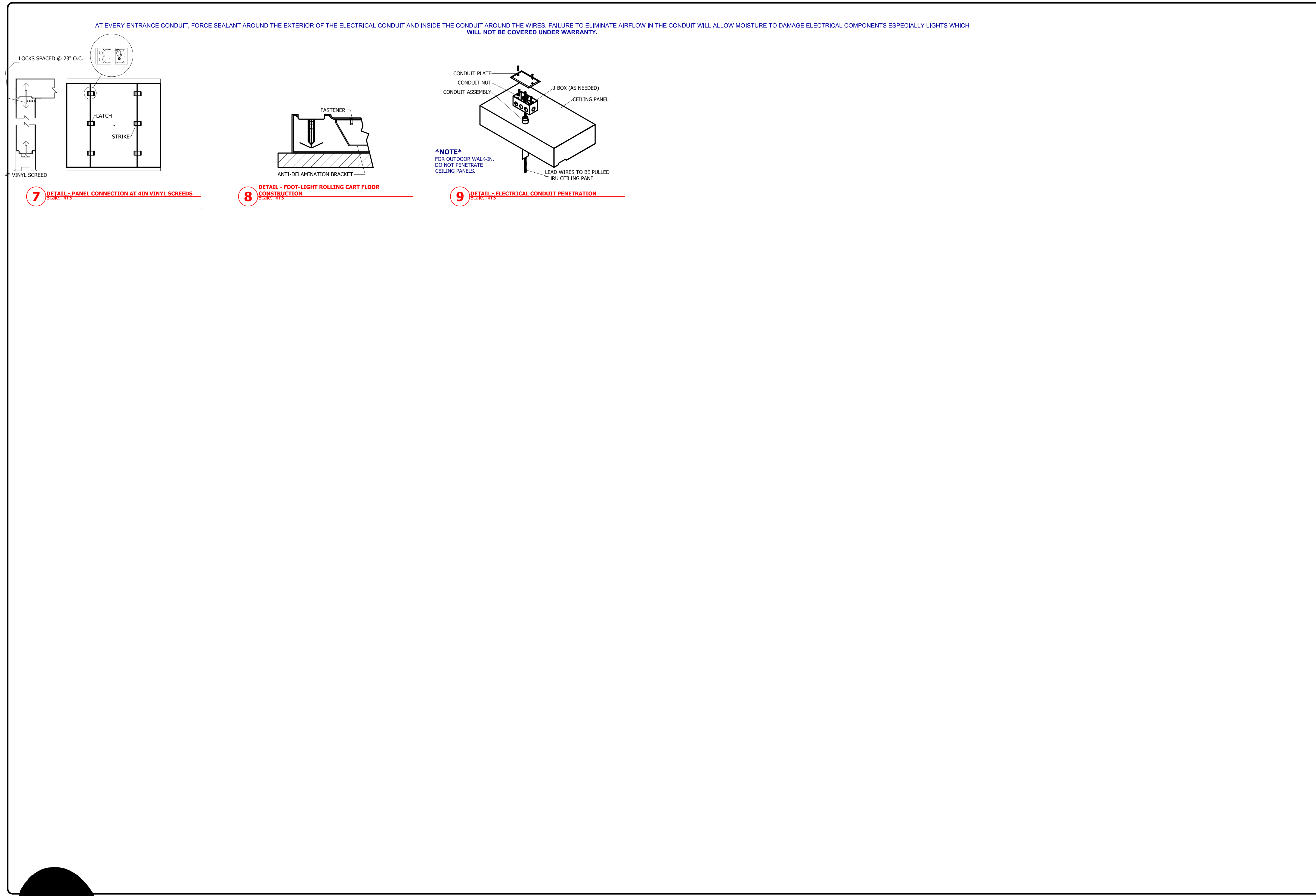
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 BRADY, TX 76825 USA

E-SOURCE INC.

REVISION	DATE	DESCRIPTION

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WALK-IN COOLER/FREEZER DETAILED DRAWING SHEET 3
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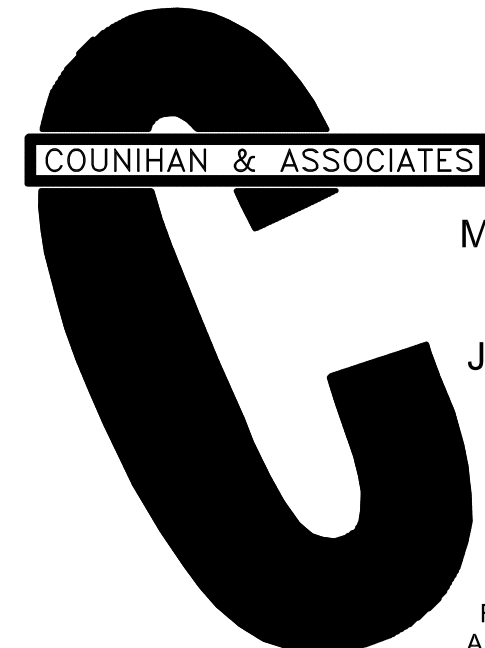
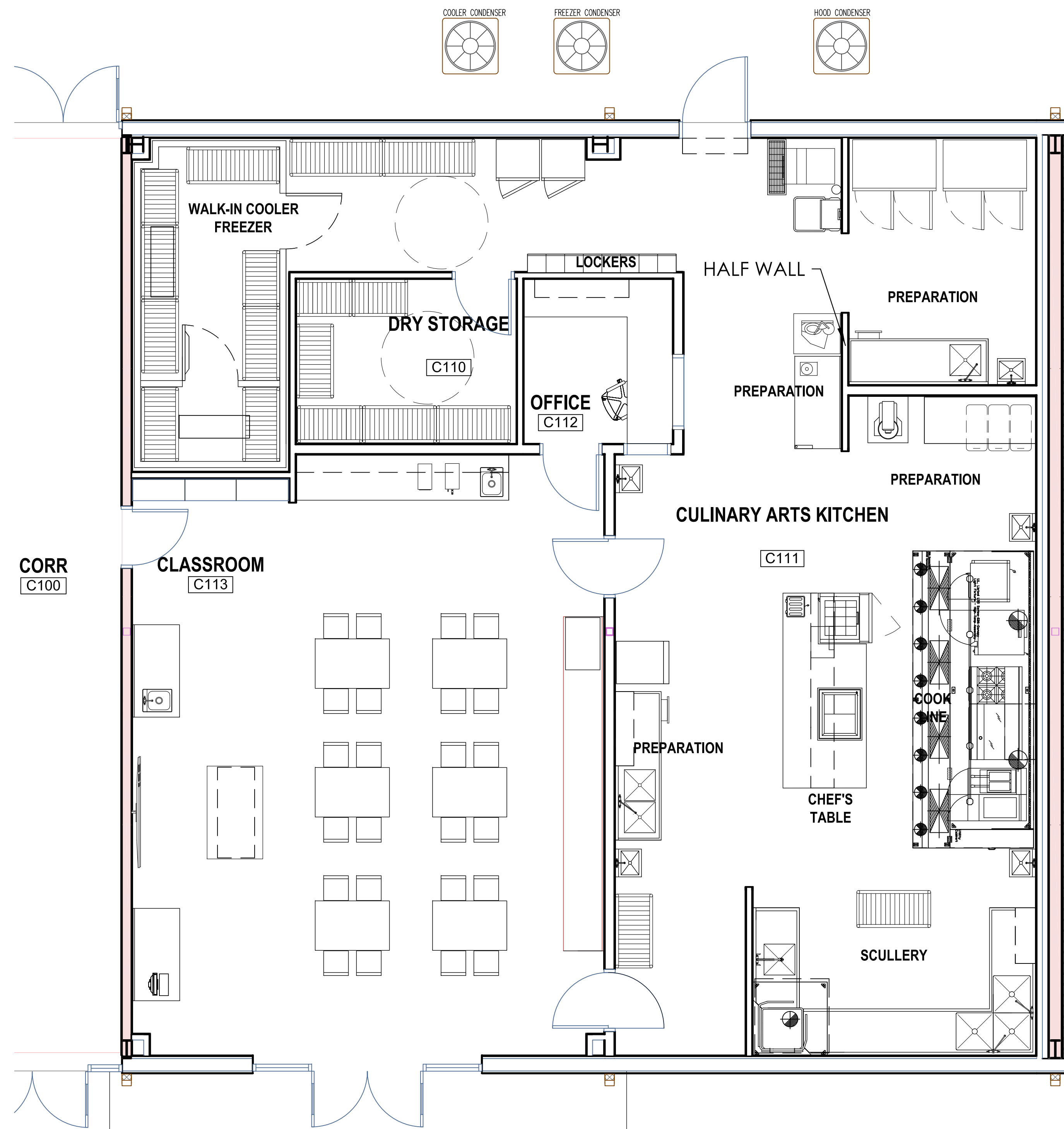
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CULINARY ARTS KITCHEN & CLASSROOM HOOD OVERLAY DRAWING

100% CD

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HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)						MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.		SWITCHES			
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM				VEL.	S.P.	END TO END	ROW	QUANTITY	LOCATION
1	Item 20	5430 ND-2-ACPSP-F	15' 0"	600 Deg.	3150			4'	12"	1575	2005	-0.785"	2700	1000	430 SS Where Exposed	ALONE	ALONE		
2	Item 36	4830 VHB-G-ND	4' 0"	700 Deg.	600			4'	10"	600	1100	-0.090"	0	0	430 SS 100%	ALONE	ALONE	1 FAN	FRONT LEFT FACE

HOOD NO.	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGHT		
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1	Item 20	Captrate Solo Filter	11	20"	16"	85% See Filter Spec.	5	L55 Series E26	ND	Right	12"x54"x30"	Ansul R102	3.0/3.0	DCV-2111	1 Light 1 Fan	YES	1230 LBS
2	Item 36						0									NO	187 LBS

HOOD NO.	TAG	OPTION
1	Item 20	BACKSPLASH 80.00" High X 192.00" Long 430 SS Vertical STRUCTURAL FRONT PANEL INSULATION FOR BACK OF HOOD RISER SENSOR INSTALL 6IN PLEN RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1	Item 20	Front	192"	24"	6'	MUA	12"	28"		675	0.173"
						MUA	12"	28"		675	0.173"
						MUA	12"	28"		675	0.173"
						MUA	12"	28"		675	0.173"
						AC		8"	125	0.049"	
						AC		8"	125	0.049"	
						AC		8"	125	0.049"	
						AC		8"	125	0.049"	
						AC		8"	125	0.049"	
						AC		8"	125	0.049"	

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

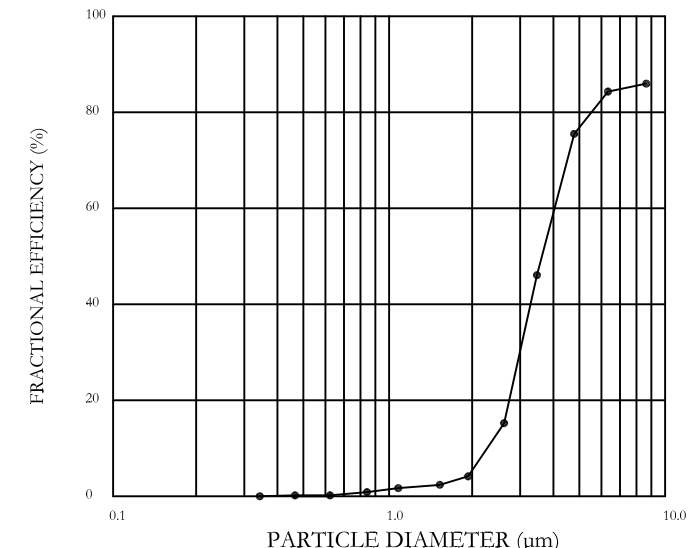
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

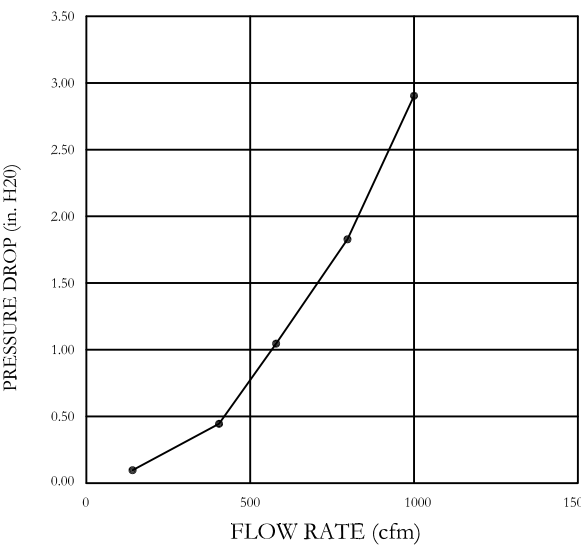
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96
 NSF STANDARD #2
 UL STANDARD #1046
 INT. MECH. CODE (IMC)
 ULC-S649



GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

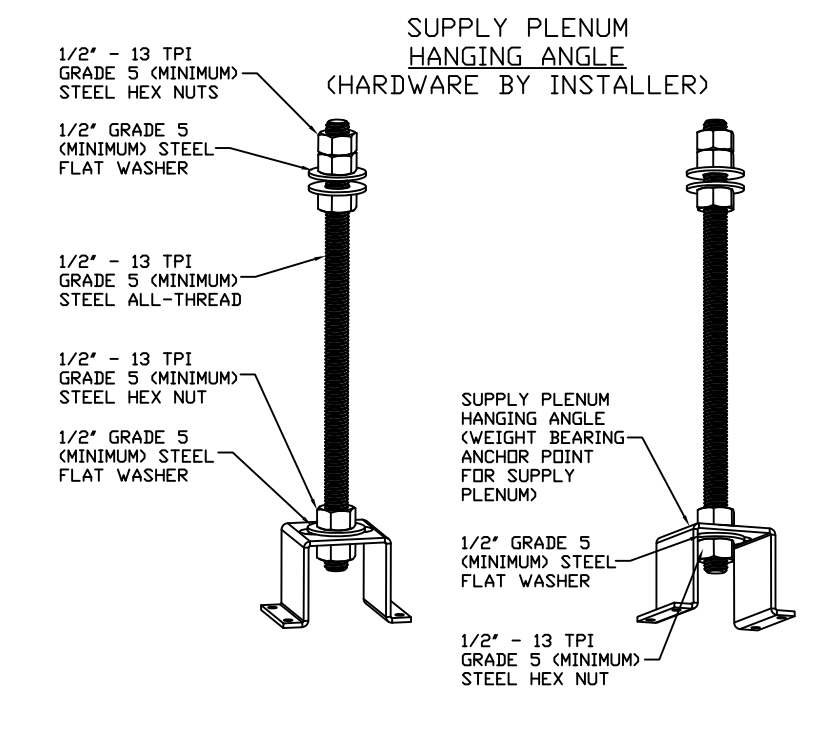
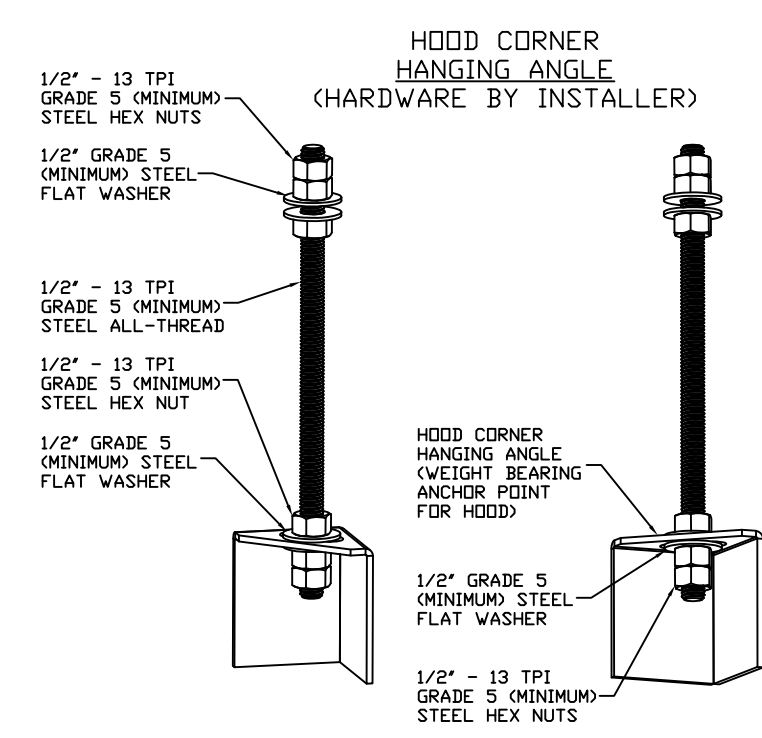
HVAC DISTRIBUTION NOTE
 HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT
 _____' - _____"
 HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted	<input type="checkbox"/>
Approved with NO Exception Taken	<input type="checkbox"/>
Revise and Resubmit	<input type="checkbox"/>
SIGNATURE _____	
Your Title _____	Date _____

PATENT NUMBERS
 AC-PSP (United States) - US Patent 7963830 B2
 AC-PSP Wall (Canada) - CA Patent 2820509
 AC-PSP Island (Canada) - CA Patent 2520330



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 FCSI #706354

J. COUNIHAN,
 IIDA #306879

CONSULTANTS AND DESIGNERS
 FOR THE HOSPITALITY INDUSTRY
 AND THE FOOD SERVICE INDUSTRY



CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
 ETL LISTED FILE# 3054804-001

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
 NSF
 ETL LISTED #3054804-001

REVISIONS

DESCRIPTION	DATE:

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CAPTIVEAIRE

Austin/San Antonio Mechanical

Brady ISD Culinary Arts Project
 BRADY, TX, 76825

DATE: 4/1/2019
 DWG.#: 3701313
 DRAWN BY: JLB-47
 SCALE: 3/4" = 1'-0"
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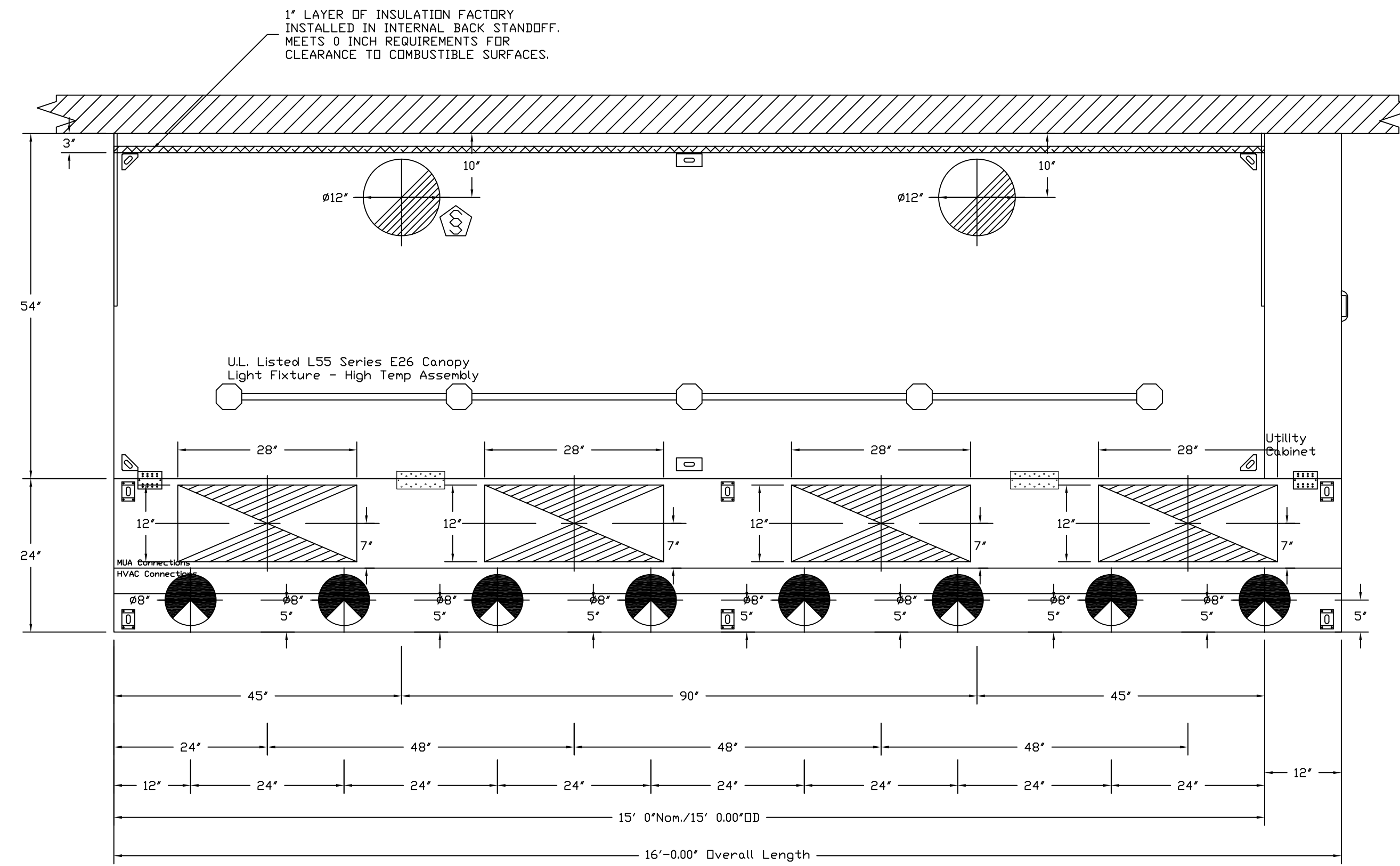
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 Hendrix Consulting Engineers
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Brady Independent School District
 Bond 2018
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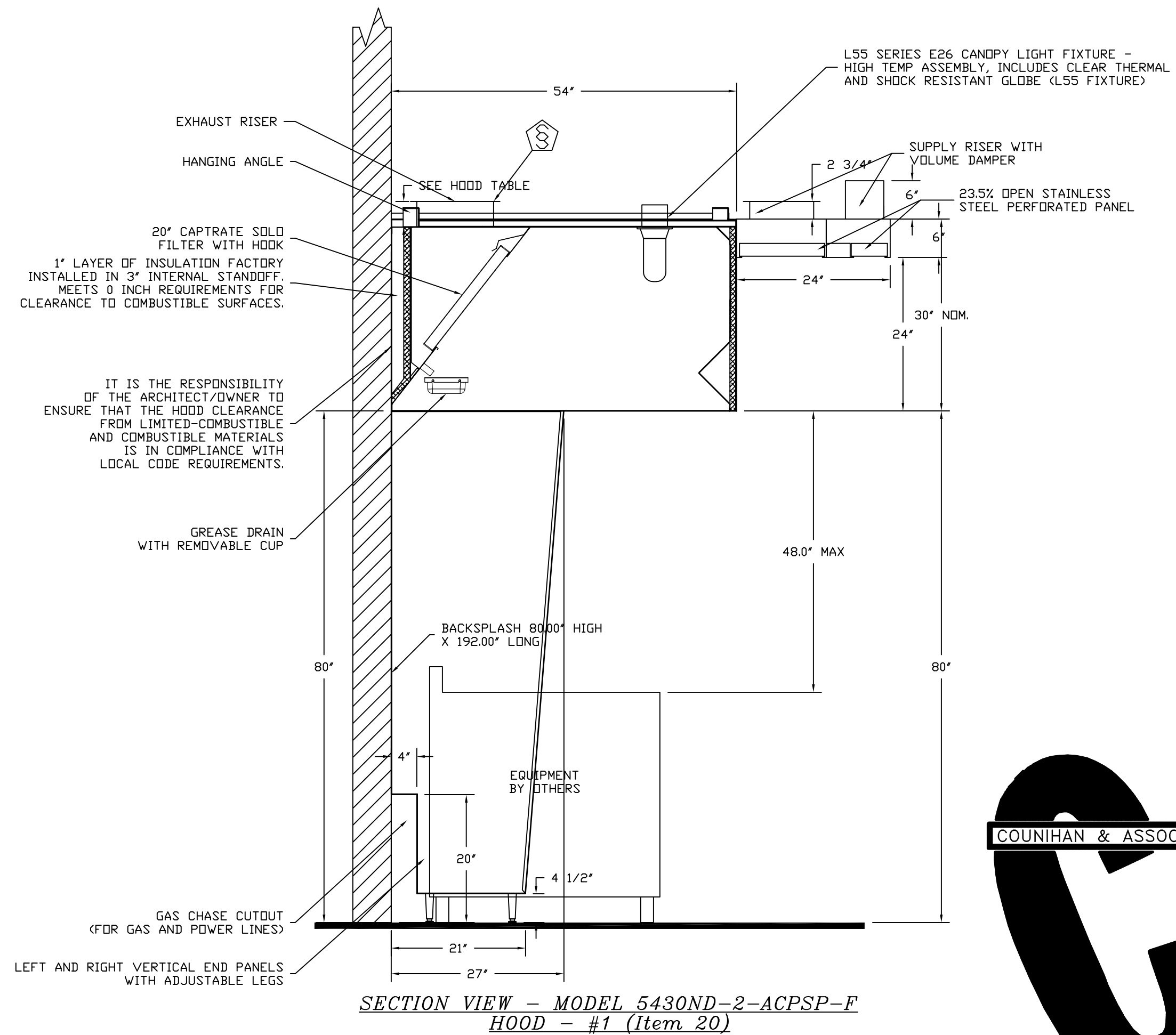
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 Sheet Number FS3.01

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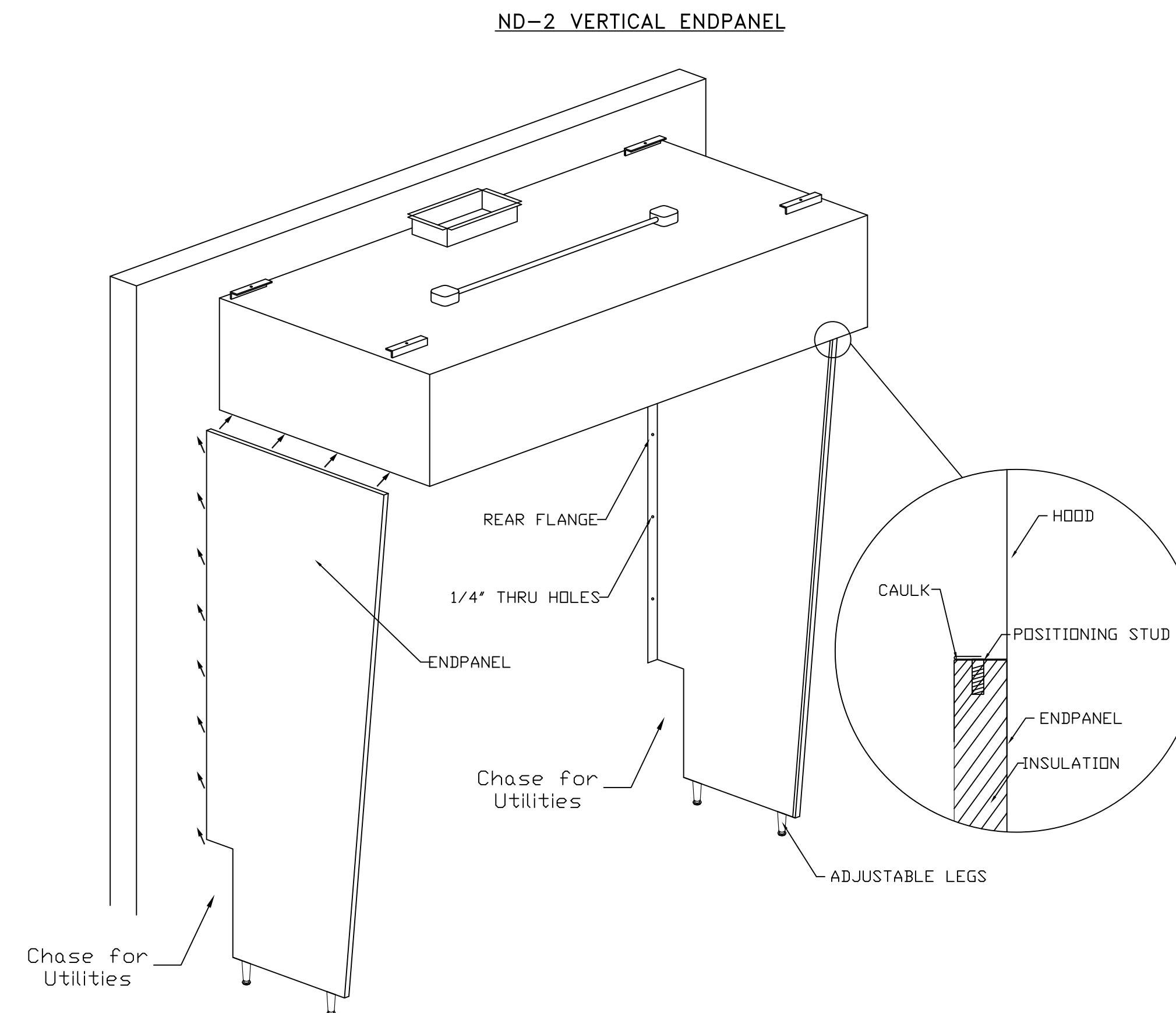


PLAN VIEW - Hood #1 (Item 20)
15' 0.00" LONG 54.30ND-2-ACPSP-F
NOTE: Additional hanging angles provided for hoods 12" and longer.

ACPSP ships loose for field installation



SECTION VIEW - MODEL 54.30ND-2-ACPSP-F
HOOD - #1 (Item 20)



COUNIHAN & ASSOCIATES

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REVISIONS	
DESCRIPTION	DATE

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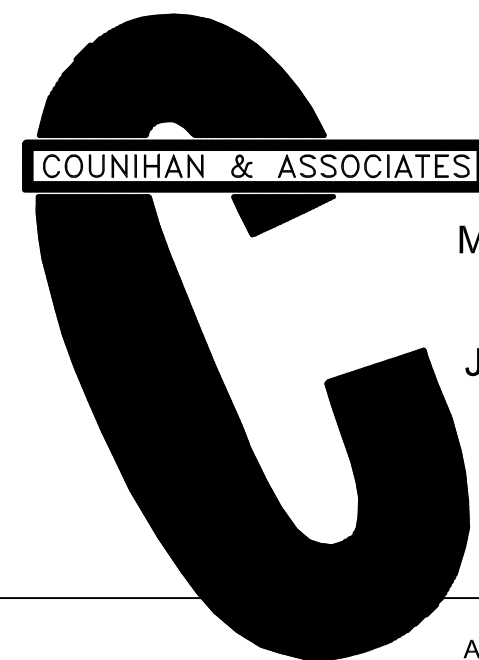
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HOOD DETAILED DRAWINGS SHEET 2
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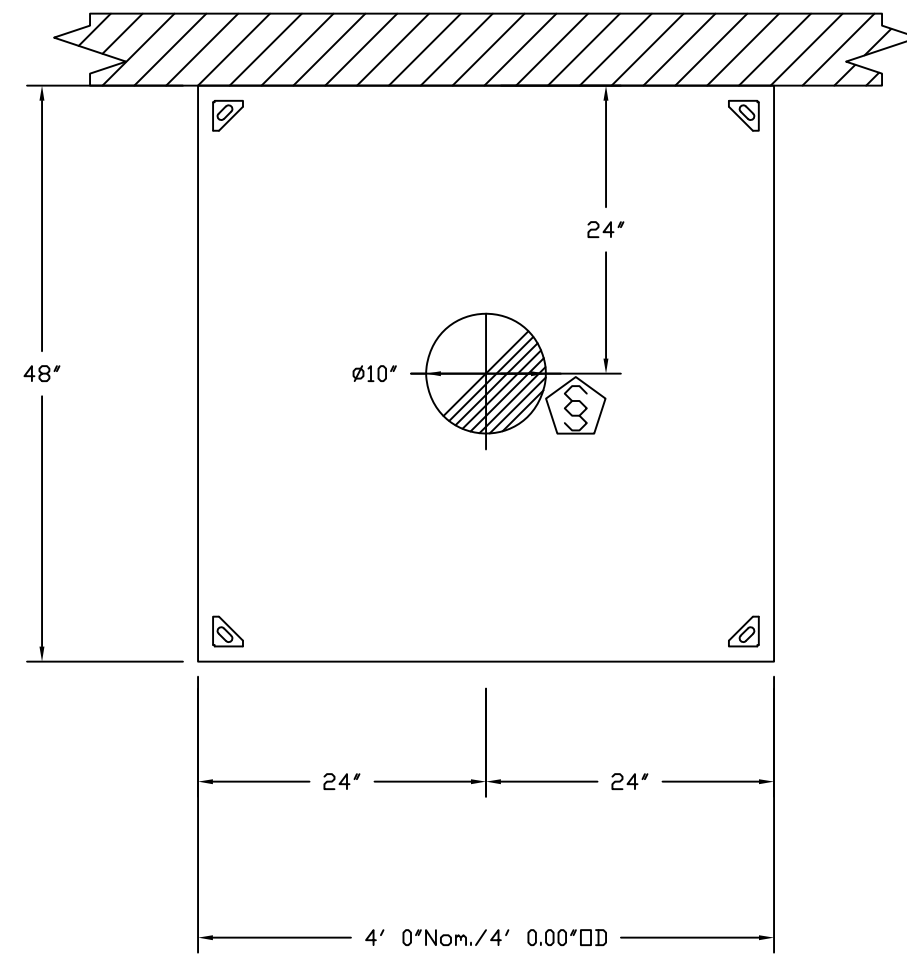
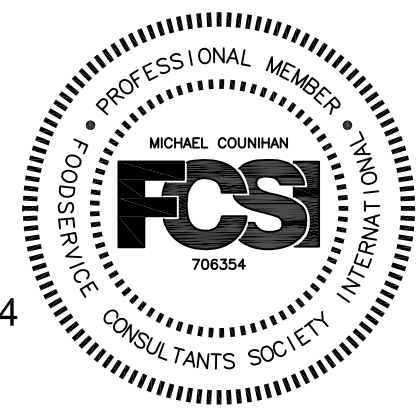
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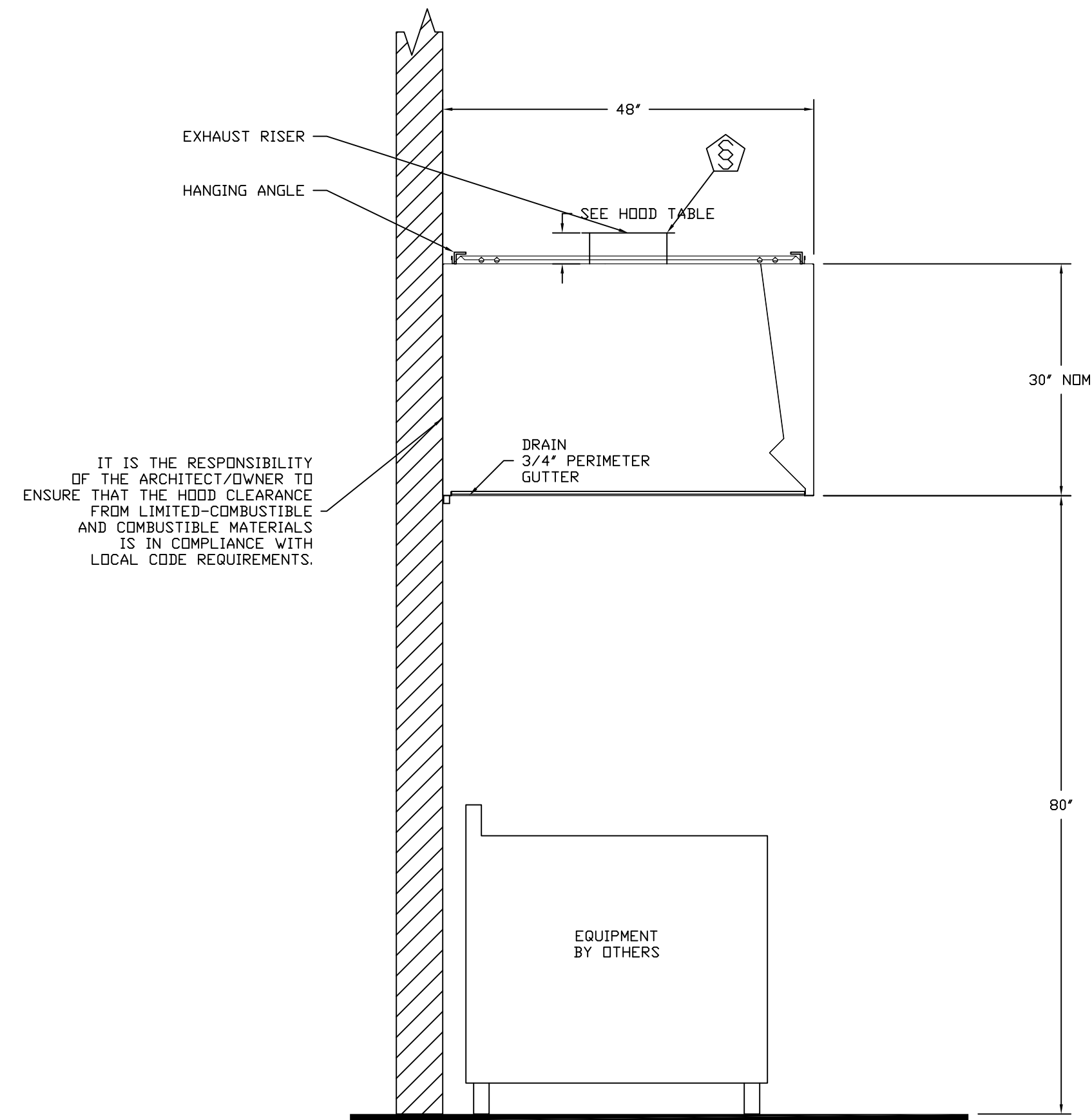
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AND THE FOOD SERVICE INDUSTRY



PLAN VIEW - Hood #2 (Item 36)
4' 0.00" LONG 48.30VHB-G-ND



SECTION VIEW - MODEL 4830VHB-G-ND
HOOD - #2 (Item 36)

REVISIONS

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3



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HOOD DETAILED DRAWINGS SHEET 3 100% CD

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Fire System Information - Job#3701313

Table with columns: FIRE SYSTEM NO., Tag, TYPE, SIZE, FLOW POINTS, INSTALLATION SYSTEM, LOCATION ON HOOD. Row 1: 1, 20, Ansul R102, 3.0/3.0, 12, Fire Cabinet Right, Right

GAS VALVE(S)

Table with columns: FIRE SYSTEM NO., TAG, TYPE, SIZE, SUPPLIED BY. Row 1: 1, 20, Mechanical, 2.000, Distributor

Fire System Parts List Key

Large table listing parts with columns: FIRE SYSTEM NO., TAG, KEY NUMBER - PART DESCRIPTION, QTY. BY FACTORY, QTY. BY DIST. Includes items like AIR CYLINDER ASSEMBLY, CARTRIDGE, NOZZLES, HOSE, etc.

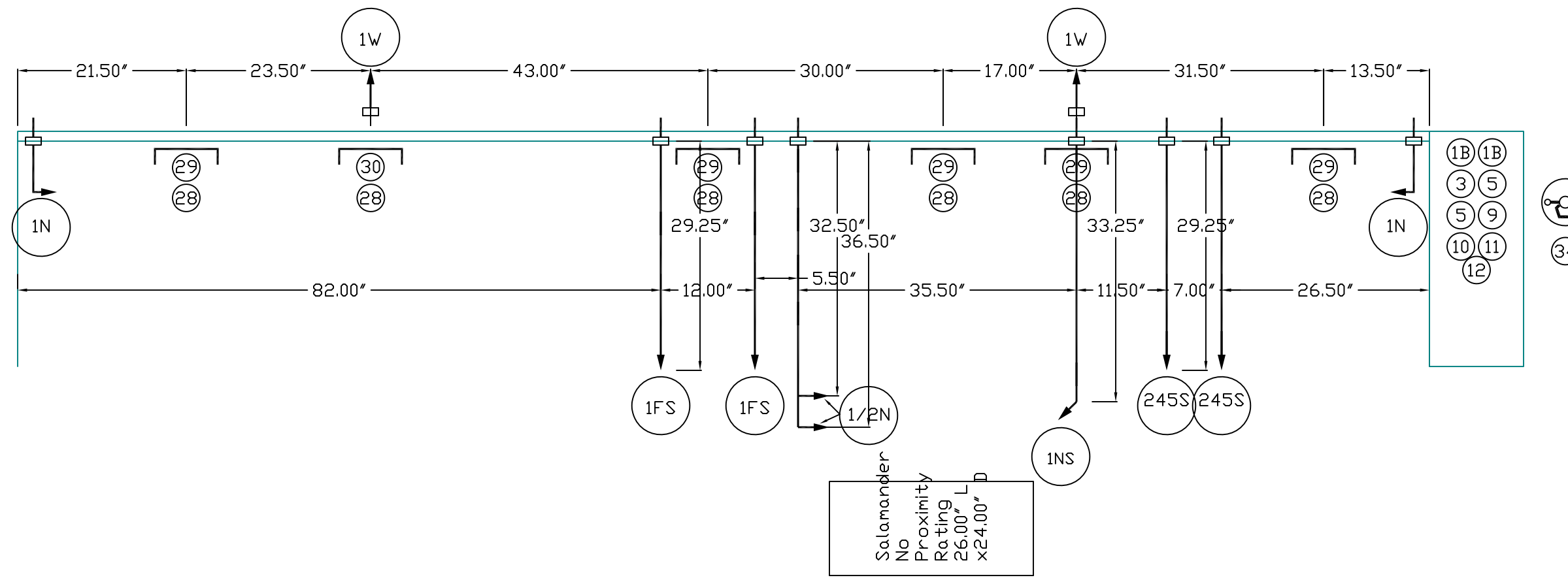
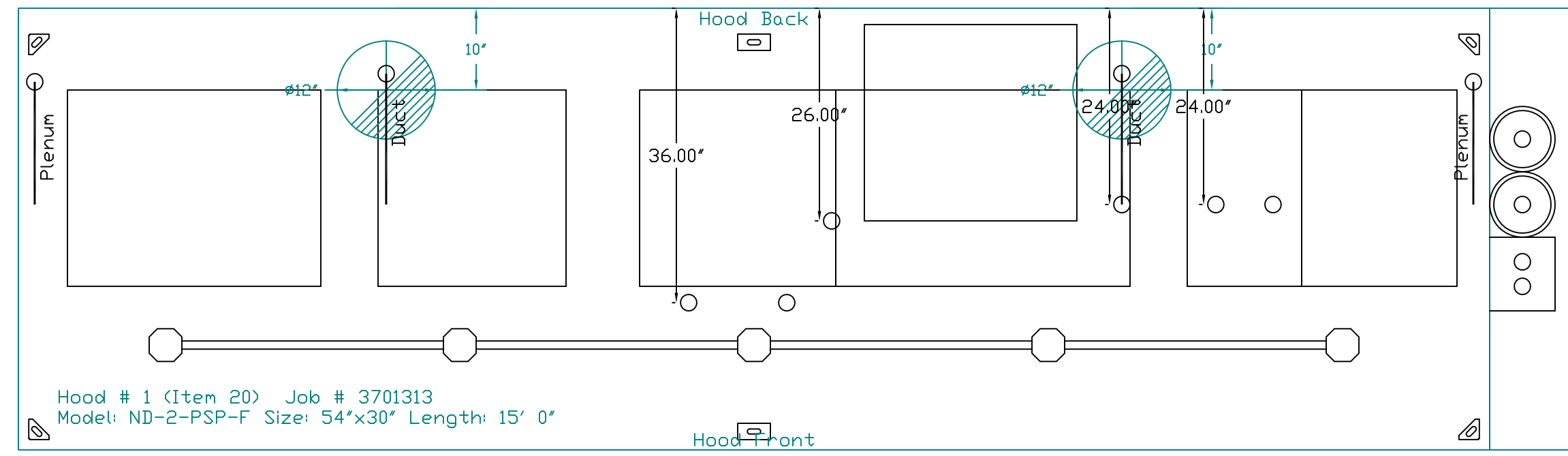


Table listing appliance dimensions and proximity ratings: Oven (31.00' L x 24.00' D), Steamer (23.00' L x 24.00' D), Range Shelf (24.00' L x 24.00' D), Griddle (36.00' L x 24.00' D), Anselux Coverage (14.00' L x 24.00' D), Dump Stn (19.00' L x 24.00' D).

NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS

Job #: 3701313
Job Name: Brady IDS Culinary Arts Project

System Size: ANSUL-3.0/3.0 Total FP required: 12
Hood # 1 15' 0.00" Long x 54" Wide x 30" High
Riser # 1 Size: 12" Dia.
Riser # 2 Size: 12" Dia.
Hood # 1 Metal Blow-Off Caps included.

SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC. (UL)

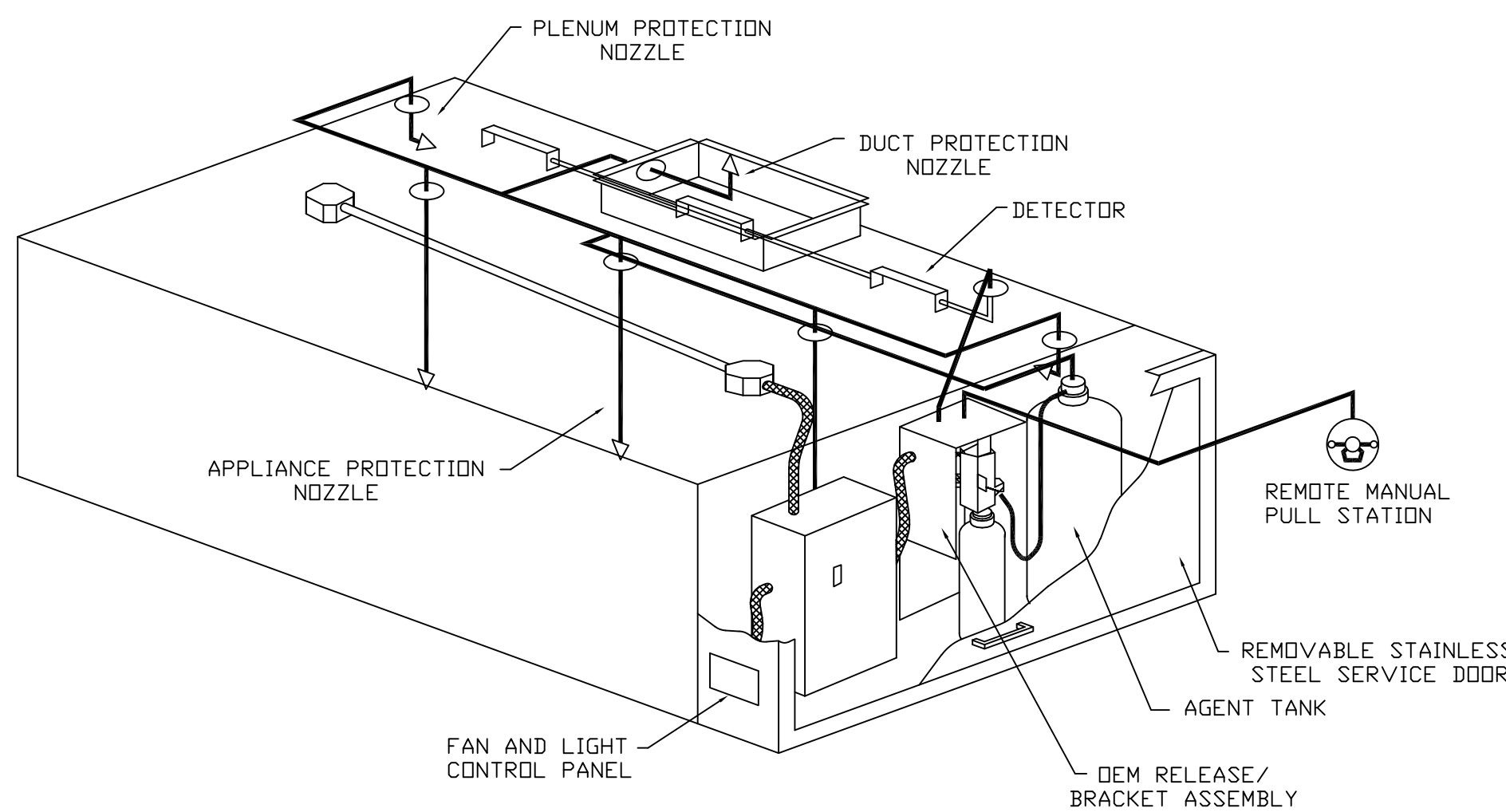
THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.

LEGEND - FIRE CABINET ANSUL SYSTEM

- 1A 1.5 GALLON TANK
1B 3 GALLON TANK
2 DEM AUTOMAN RELEASE
3 DEM REGULATED RELEASE
4 DEM REGULATED ACTUATOR
5 ANSULEX LIQUID AGENT (3 GAL.)
6 ANSULEX LIQUID AGENT (1.5 GAL.)
7 CARTRIDGE (101-20)
8 CARTRIDGE (101-10)
9 CARTRIDGE (101-30)
9A CARTRIDGE (LT-A-101-30)
9B DOUBLE TANK CARTRIDGE
10 TEST LINK
11 DOUBLE MICROSWITCH
12 HOSE ASSEMBLY
1100 DUCT NOZZLE (430913)
2W DUCT NOZZLE (419337)
1W NOZZLE ASSEMBLY (419336)
1F NOZZLE ASSEMBLY (419333)
1N NOZZLE ASSEMBLY (419335)
1/2N NOZZLE ASSEMBLY (419334)
3N NOZZLE ASSEMBLY (419338)
245 NOZZLE ASSEMBLY (419340)
230 NOZZLE ASSEMBLY (419339)
2120 NOZZLE ASSEMBLY (419343)
290 NOZZLE ASSEMBLY (419342)
260 NOZZLE ASSEMBLY (419341)
28 DETECTOR BRACKET
29 LOW TEMP FUSIBLE LINK
30 HIGH TEMP FUSIBLE LINK
MGV MECHANICAL GAS VALVE
EGV ELECTRICAL GAS VALVE
34 REMOTE MANUAL PULL STATION
S SWIVEL ADAPTOR



TYPICAL ANSUL R-102 SYSTEM LAYOUT

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INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST); ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES; ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST. EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE); GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

REVISIONS table, CAPTIVE logo, Austin/San Antonio Mechanical, project name: Brady ISD Culinary Arts Project, address: BRADY, TX, 76825, date: 4/1/2019, DWG #: 3701313, DRAWN BY: JLB-47, SCALE: 3/4" = 1'-0", MASTER DRAWING, SHEET NO. 4



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HOOD DETAILED DRAWINGS SHEET 4

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EXHAUST FAN INFORMATION - Job#3701313

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SDNES
1	EF-1	DUBSHFA	1575	1.100	1319	0.750	0.4320	1	208	5.2	498 FPM	92	14.8
2	EF-2	DUBSHFA	1575	1.100	1319	0.750	0.4320	1	208	5.2	498 FPM	92	14.8
4	EF-3	DUI2HFA	600	0.250	1282	0.250	0.0880	1	115	3.7	426 FPM	50	7

CONDENSER DETAILS

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX. FUSE SIZE	MIN. WIRE SIZE	SEER
3	MAU-1	A2-D.250-20D-MPU	1	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	10 AWG	14

MUA FAN INFORMATION - Job#3701313

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	COOLING COIL ENTERING DB TEMP.	COOLING COIL ENTERING WB TEMP.	COOLING COIL LEAVING DB TEMP.	COOLING COIL LEAVING WB TEMP.	COOLING COIL TOTAL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS.)	SDNES	BURNER EFFICIENCY(%)
3	MAU-1	A2-D.250-20D-MPU	20MF-2-MDD	A2-D.250	2000	2700	0.400	1193	1.500	0.9040	3	208	6.6	98.0°F	71.0°F	80.8°F	65.7°F	47.9 MBH	45.8 MBH	2.1 MBH	1516	10.2	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
3	MAU-1	148736	136837	50 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	EF-1	1 - Grease Box 1 - ECM Wiring Package-Exhaust - PWM Signal from ECPM03 Prewire (NIDEC Motor)
2	EF-2	1 - Grease Box 1 - ECM Wiring Package-Exhaust - PWM Signal from ECPM03 Prewire (NIDEC Motor)
3	MAU-1	1 - AC Interlock Relay - 24VAC Coil 1 - Motorized Backdraft Damper for A2-D Housing 1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-35" 1 - Manifold Pressure Gauge, -5 to 15" wc 1 - 5 Ton Single Circuit Modular Packaged Cooling Option for Size 2 MUA (2,000 to 3,000 cfm), 208V/230V, 3 phase. Cooling Thermostat or Programmable Stat Required for Proper Operation. 1 - Cooling Thermostat and Relay (Not req for evap) 1 - Ship Condenser Loose. Single Condenser, Three Phase. 1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only 1 - Size 2 Direct Fired Heater Low CFM Profile Package. Used on Heaters under 2500 cfm. 1 - DF 2 Indoor Hanging Option - Includes 2 HSA125 Hanging Spring Isolators per Uni-Strut 1 - Insulation Option for VBank filter section
4	EF-3	1 - ECM Wiring Package-Exhaust - Manual or 0-10VDC Reference Speed Control (NIDEC Motor)

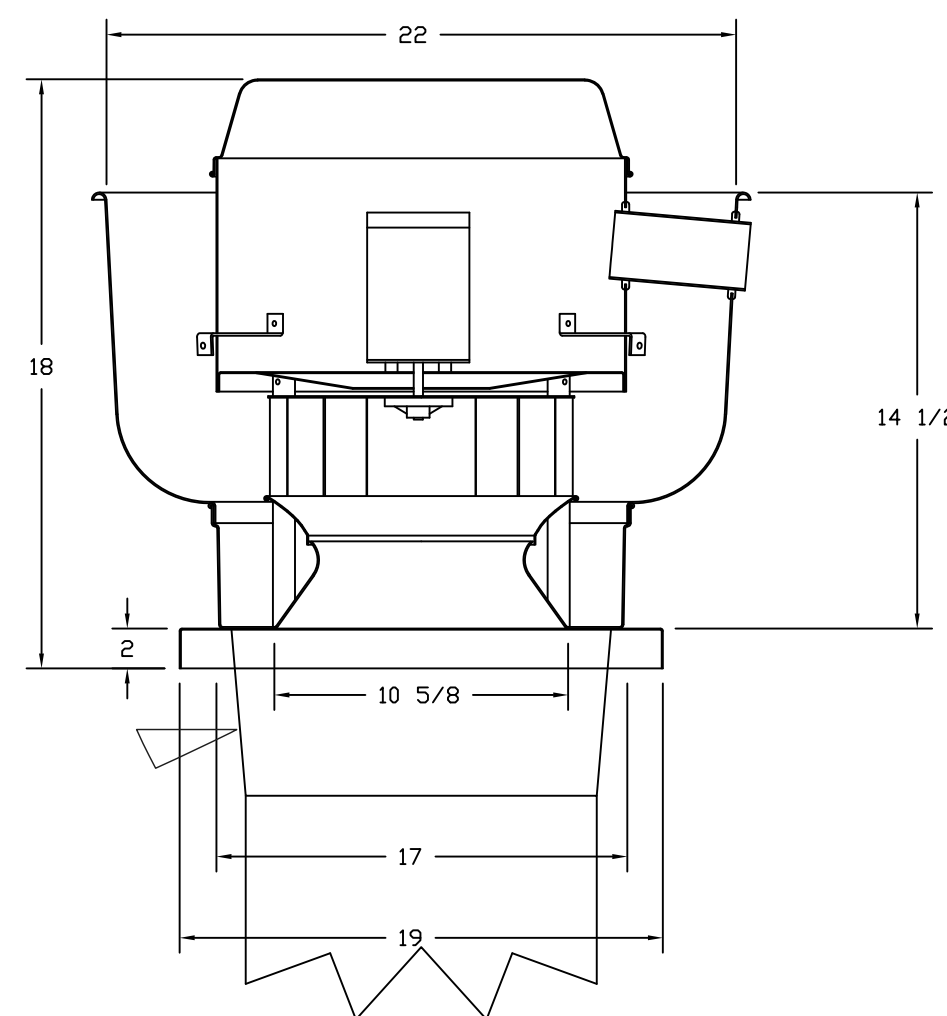
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2	YES						
3	MAU-1				YES		YES	
4	EF-3							

CURB ASSEMBLIES

NO.	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	44 LBS	Curb	23.000"W x 23.000"L x 26.000"H Vented Hinged
2	# 2	EF-2	44 LBS	Curb	23.000"W x 23.000"L x 26.000"H Vented Hinged
4	# 4	EF-3	35 LBS	Curb	17.500"W x 17.500"L x 26.000"H Vented Hinged

FAN #4 DUI2HFA - EXHAUST FAN (EF-3)



FEATURES:

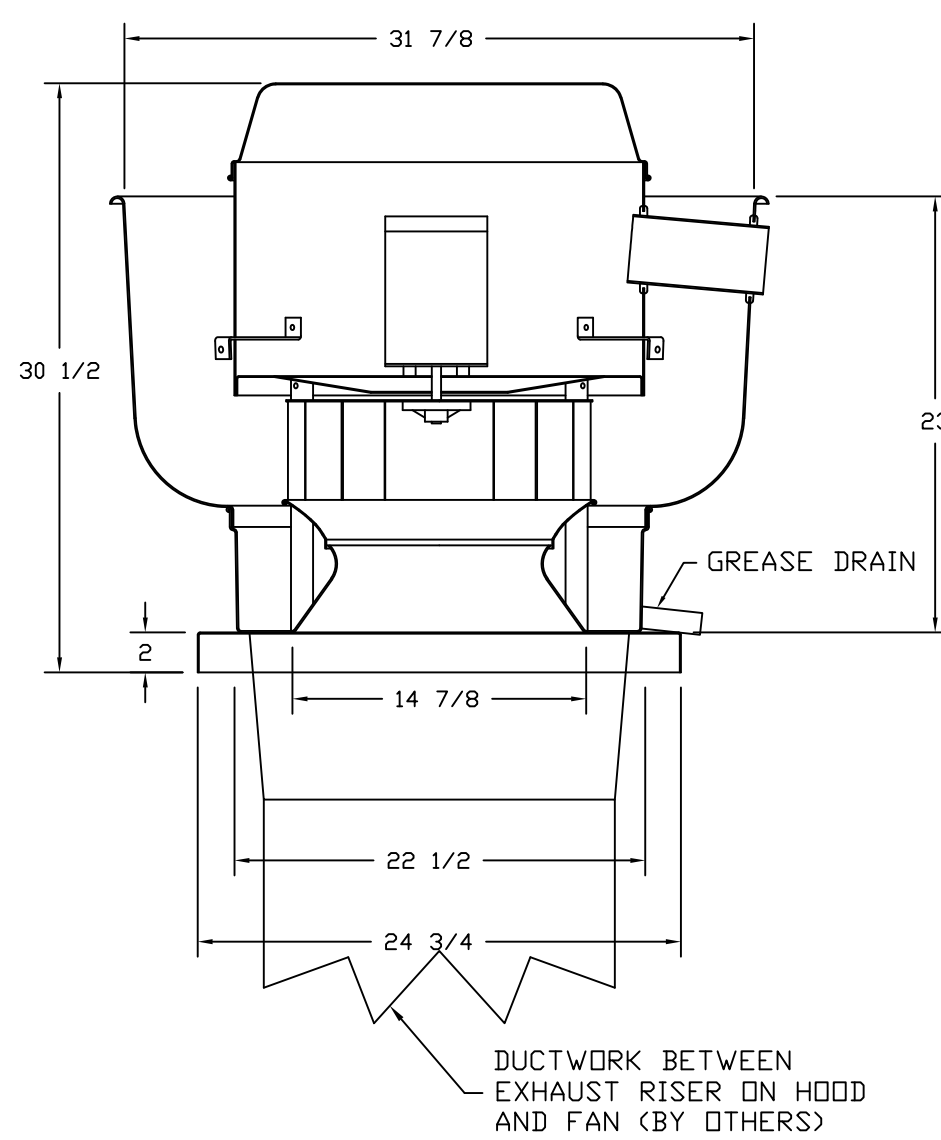
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

OPTIONS

ECM WIRING PACKAGE-EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (NIDEC MOTOR).

FANS #1 (EF-1), #2 (EF-2) - DUBSHFA EXHAUST FAN



FEATURES:

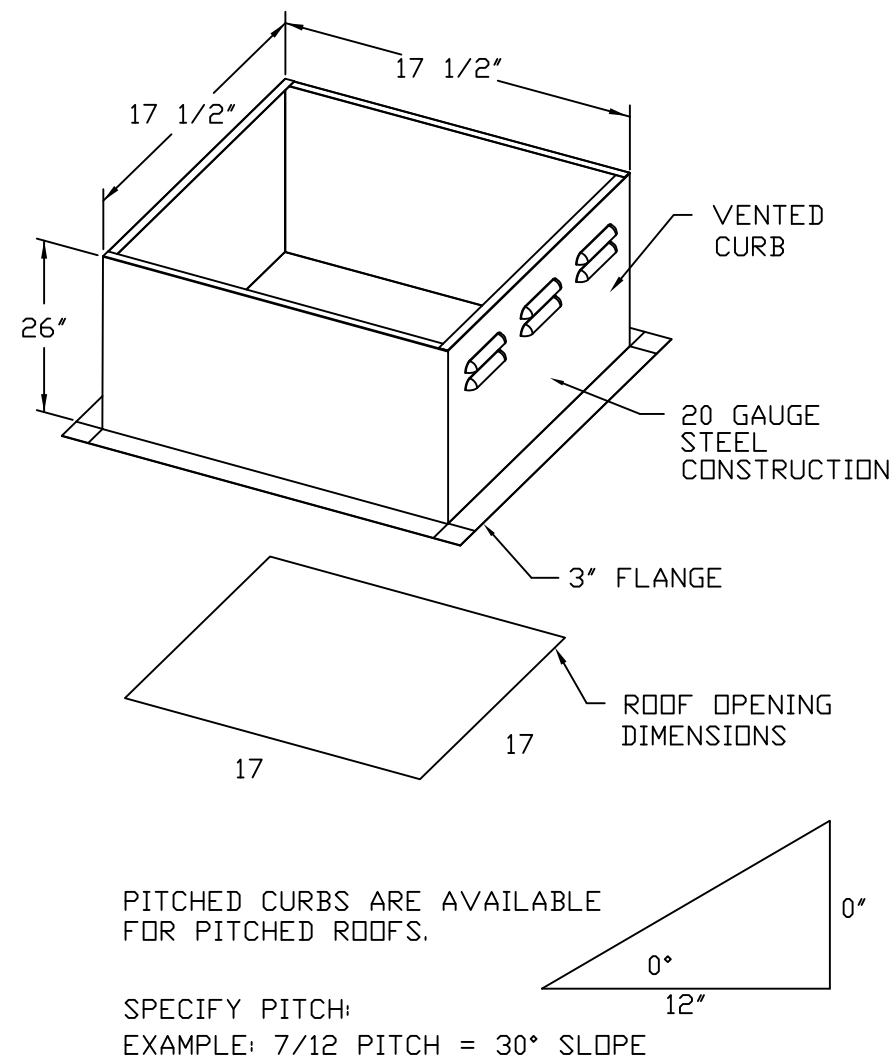
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
ECM WIRING PACKAGE-EXHAUST - PWM SIGNAL FROM ECPM03 PREWIRE (NIDEC MOTOR).



OPTIONS

ECM WIRING PACKAGE-EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (NIDEC MOTOR).



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BRADY, TX, 76825

DATE: 4/1/2019

DWG.#: 3701313

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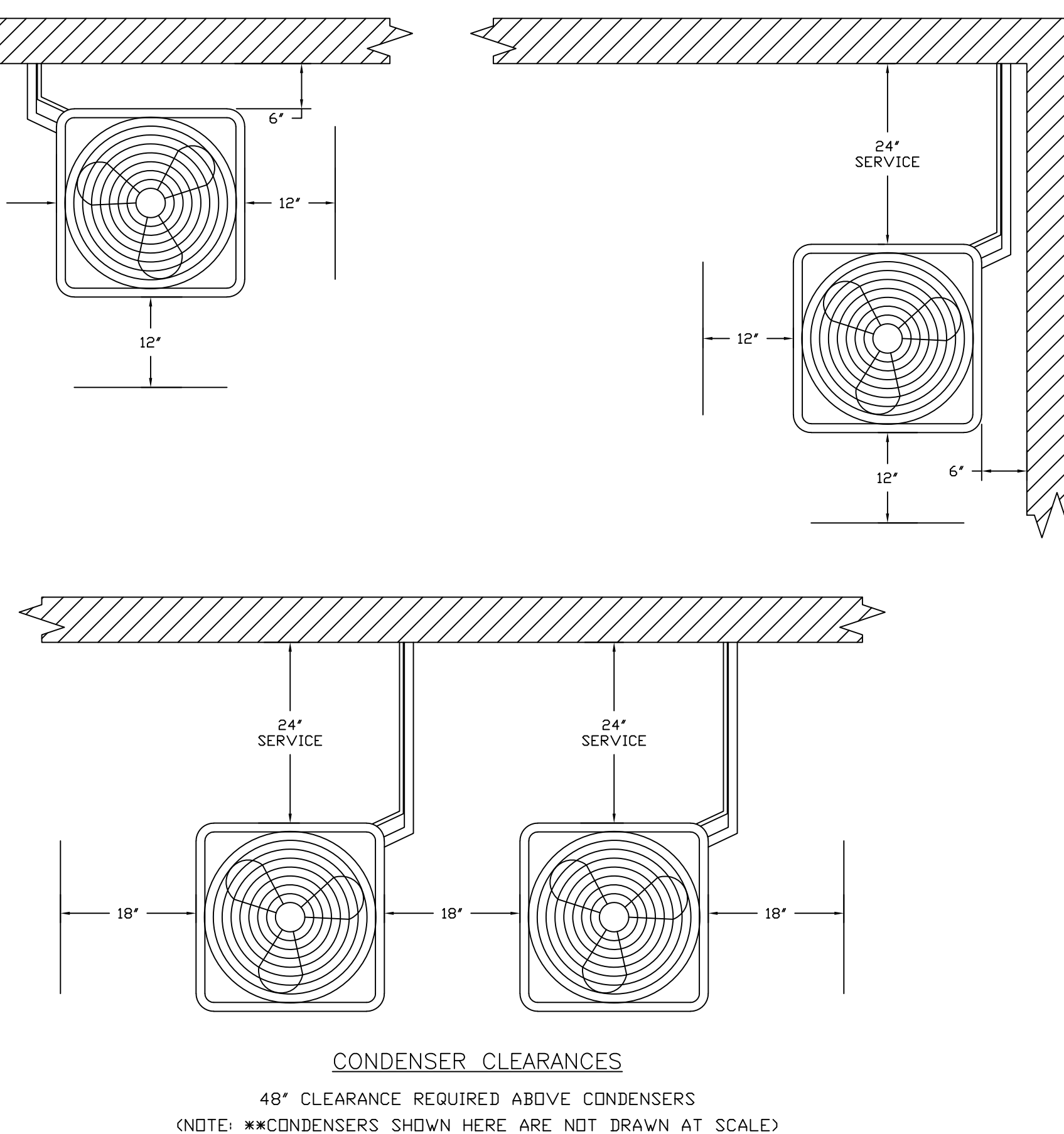
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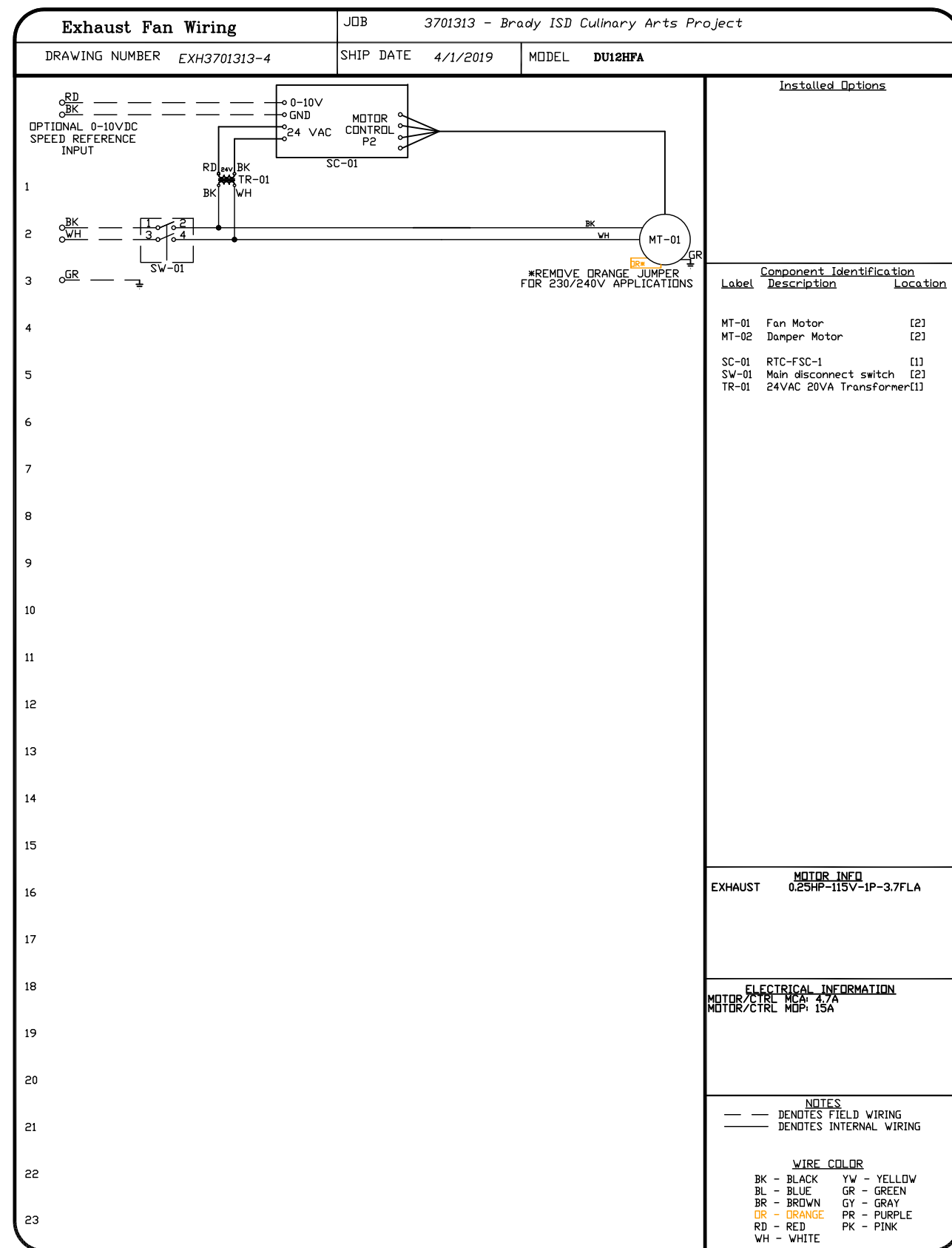
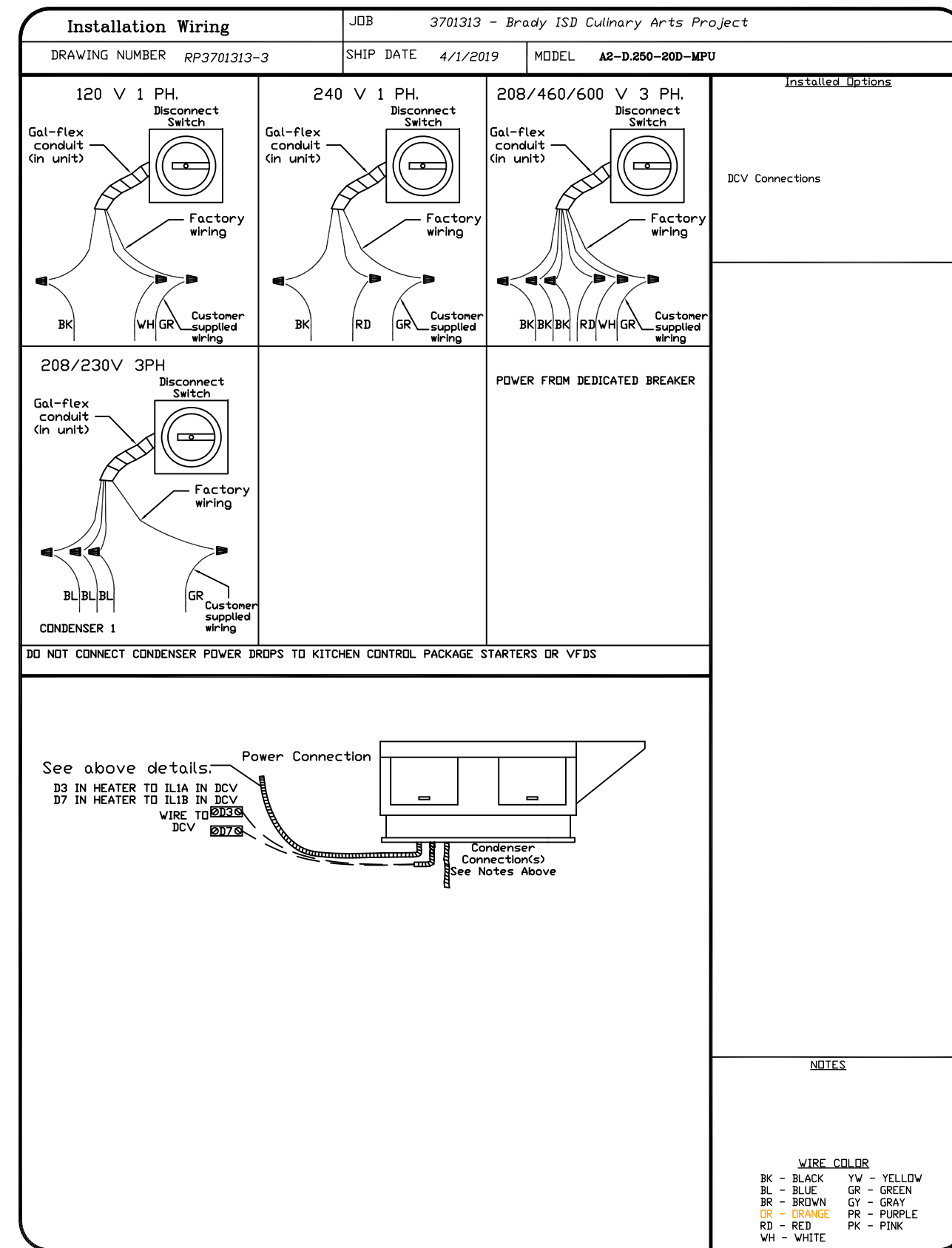
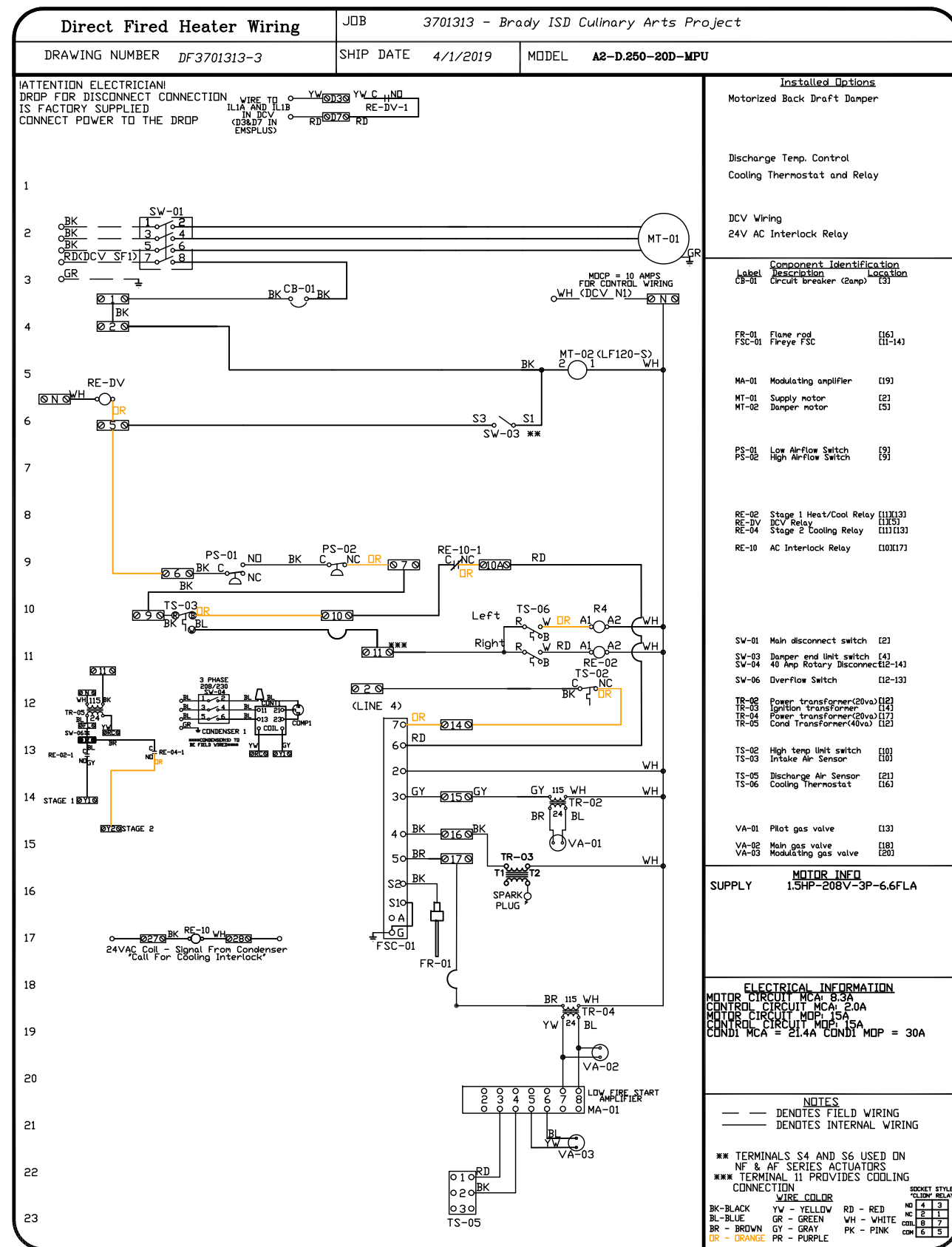
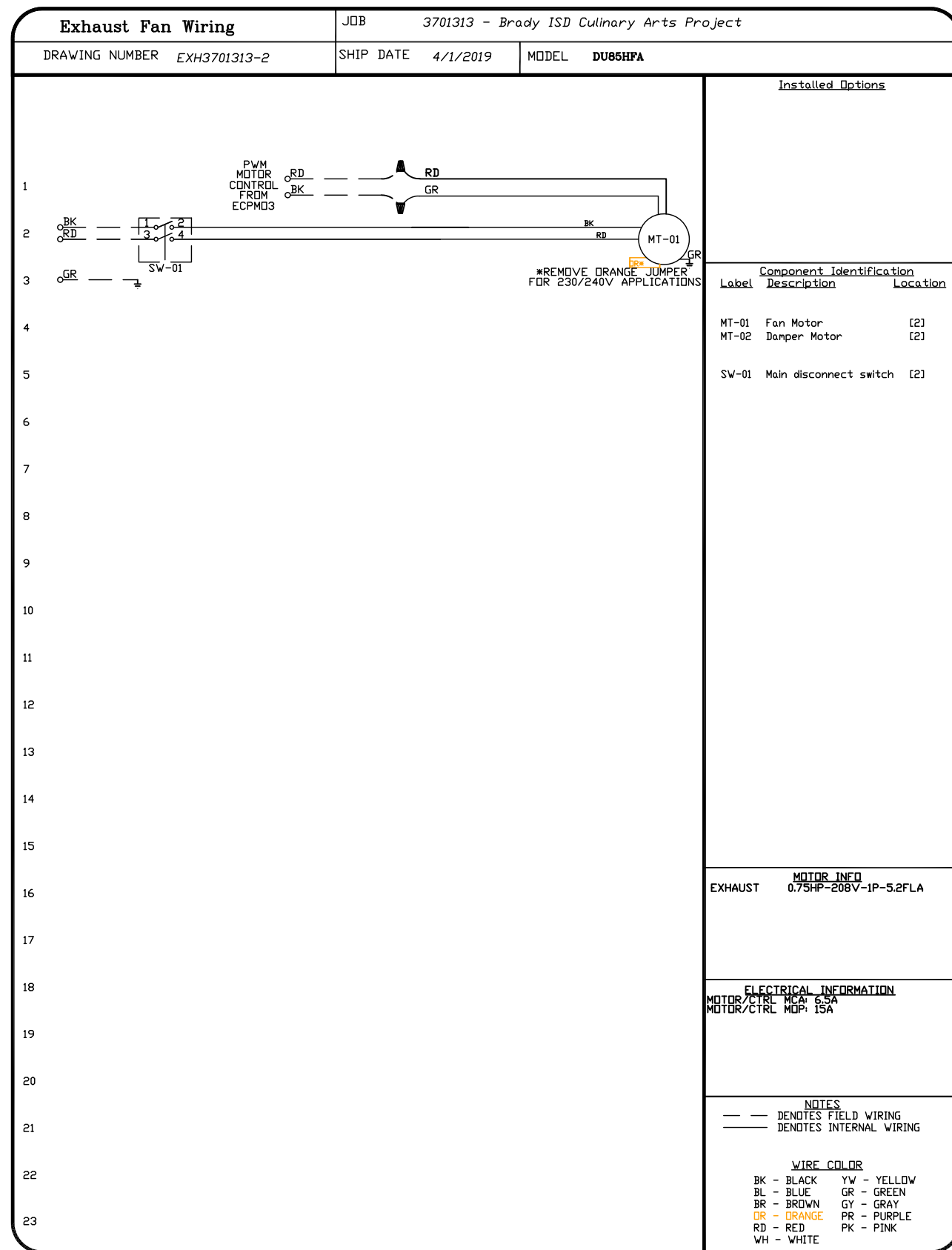
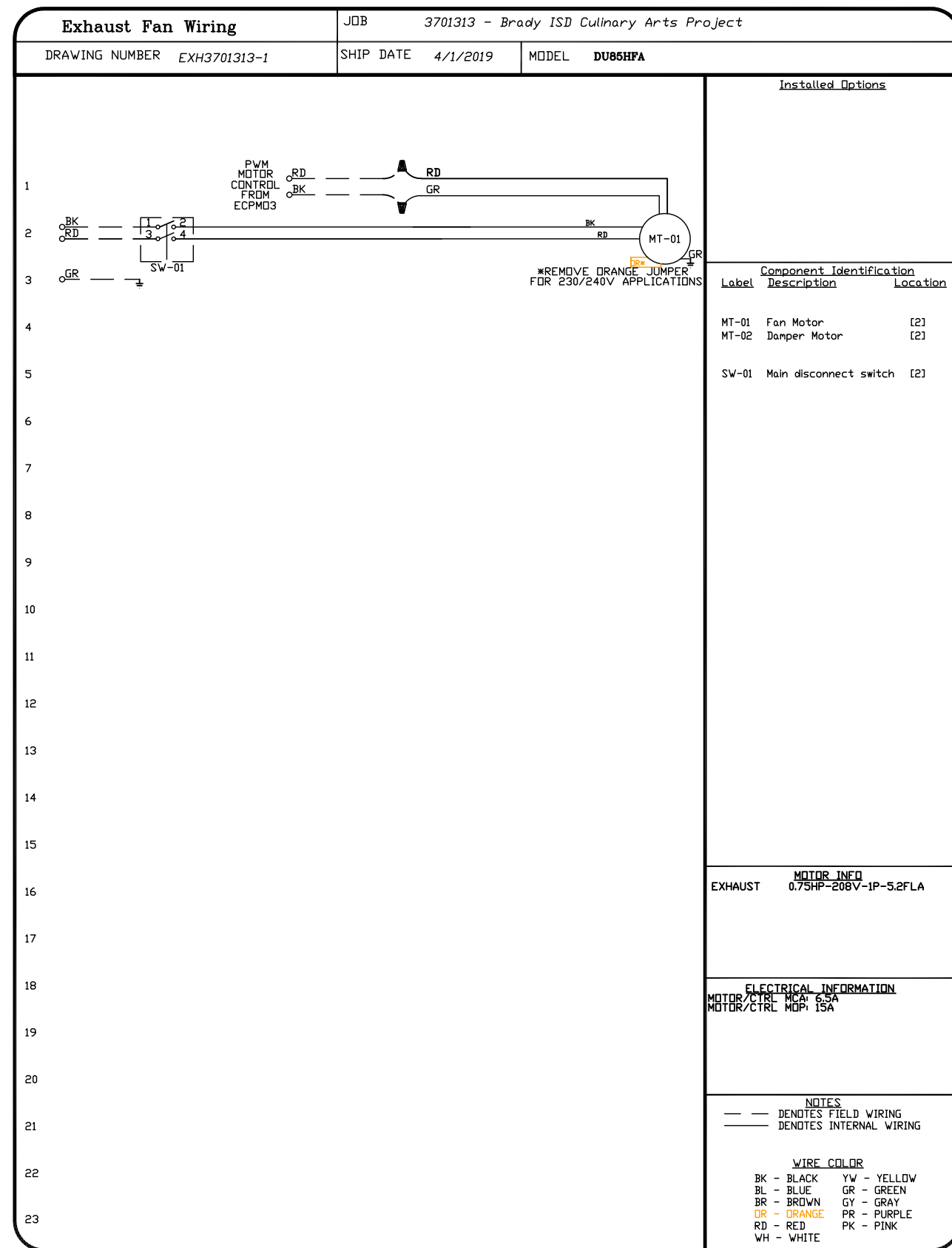
HOOD DETAILED DRAWINGS SHEET 5
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CONDENSER CLEARANCES

48" CLEARANCE REQUIRED ABOVE CONDENSERS
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE)

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DESCRIPTION	DATE

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Brady ISD Culinary Arts Project
 BRADY, TX, 76825

DATE: 4/1/2019
 DWG.#: 3701313
 DRAWN BY: JLB-47
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 7

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Brady Independent School District
 Brady, Texas
 Bond 2018

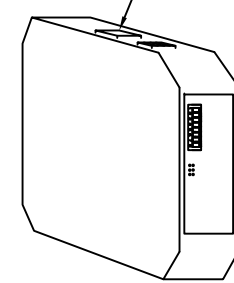
Project Number 1703
 Date: 4/04/2019
 Sheet Number FS3.07

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ELECTRICAL PACKAGE - Job#3701313

Table with columns: NO., TAG, PACKAGE #, LOCATION, SWITCHES (LOCATION, QUANTITY), OPTION, FANS CONTROLLED (FAN TAG, TYPE, #, HP, VOLT, FLA)

Field Connection to Router or Ethernet Switch
Factory Wired Connection to Cellular Kit

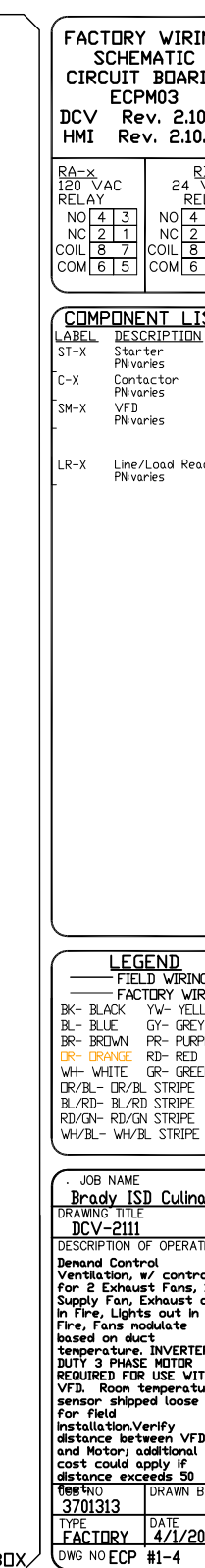
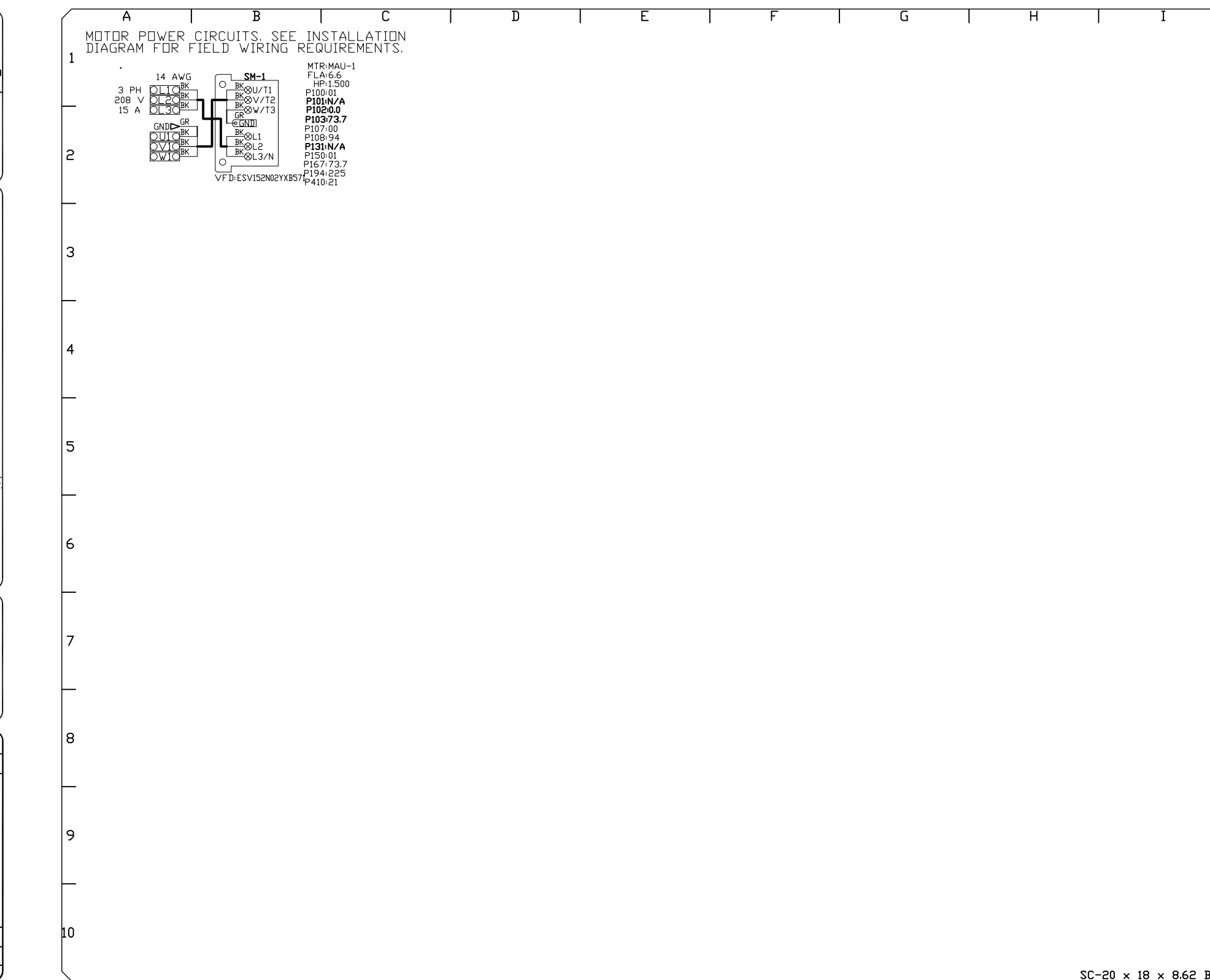
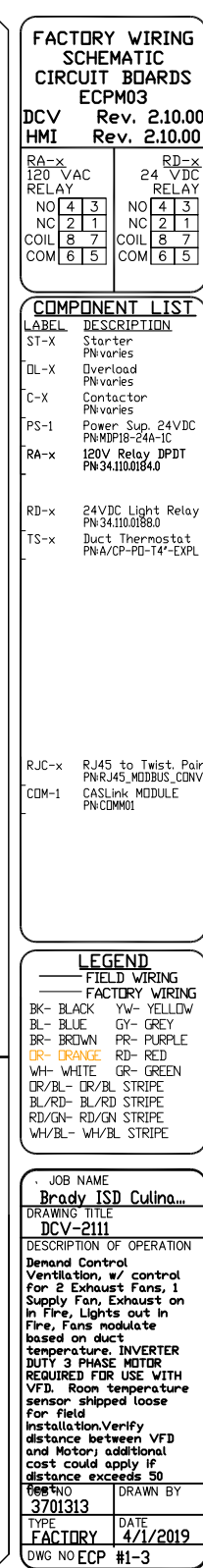
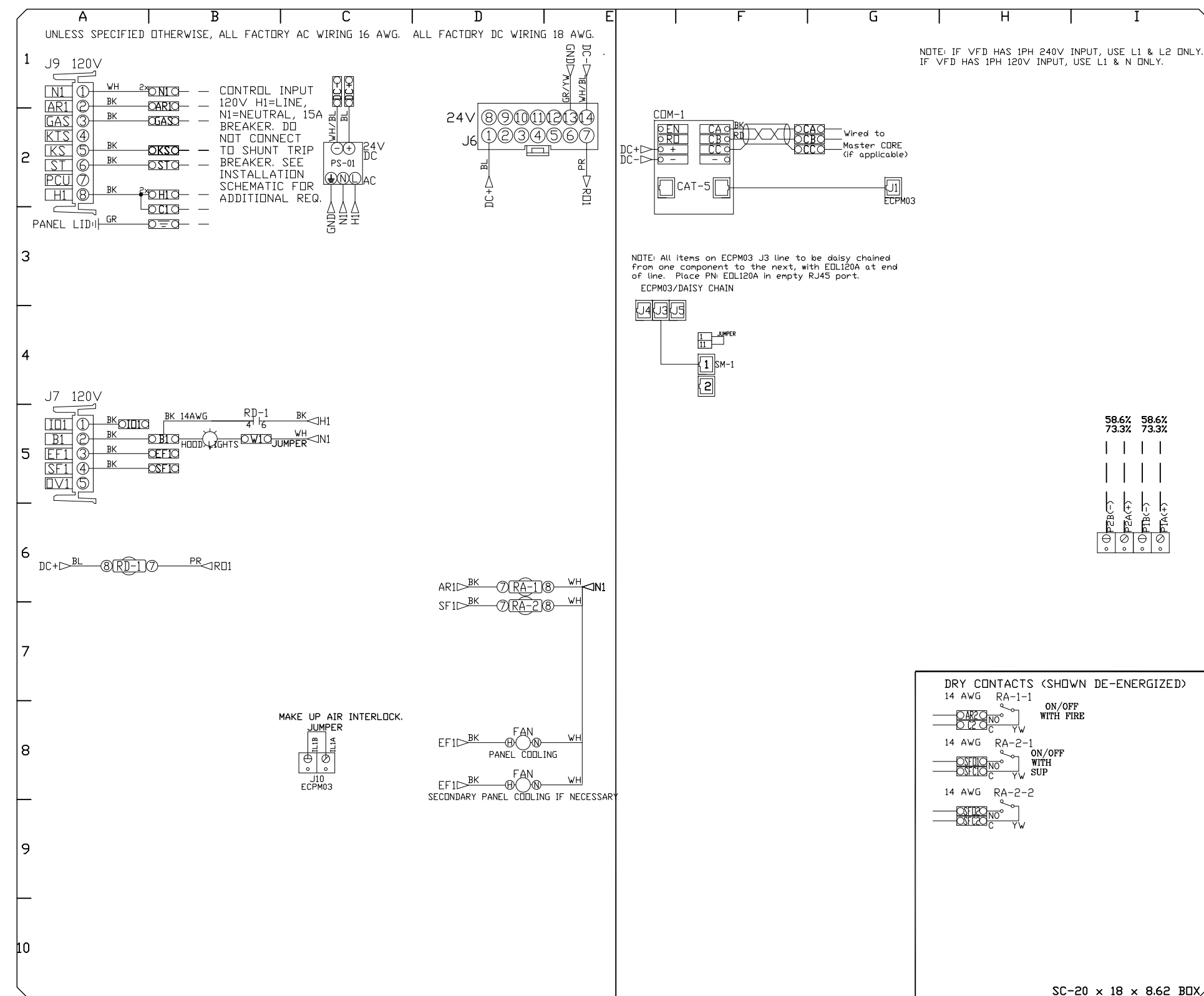
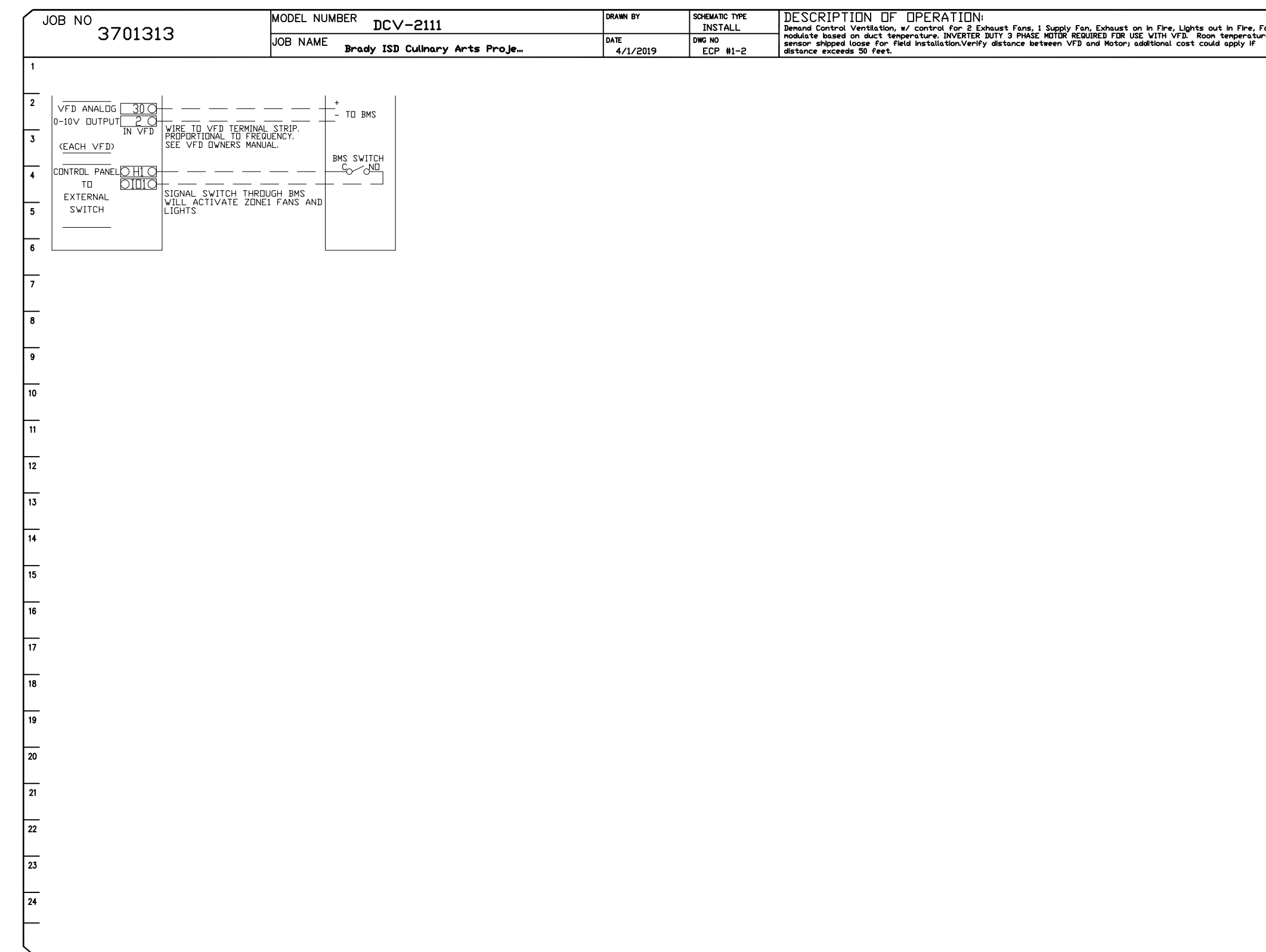
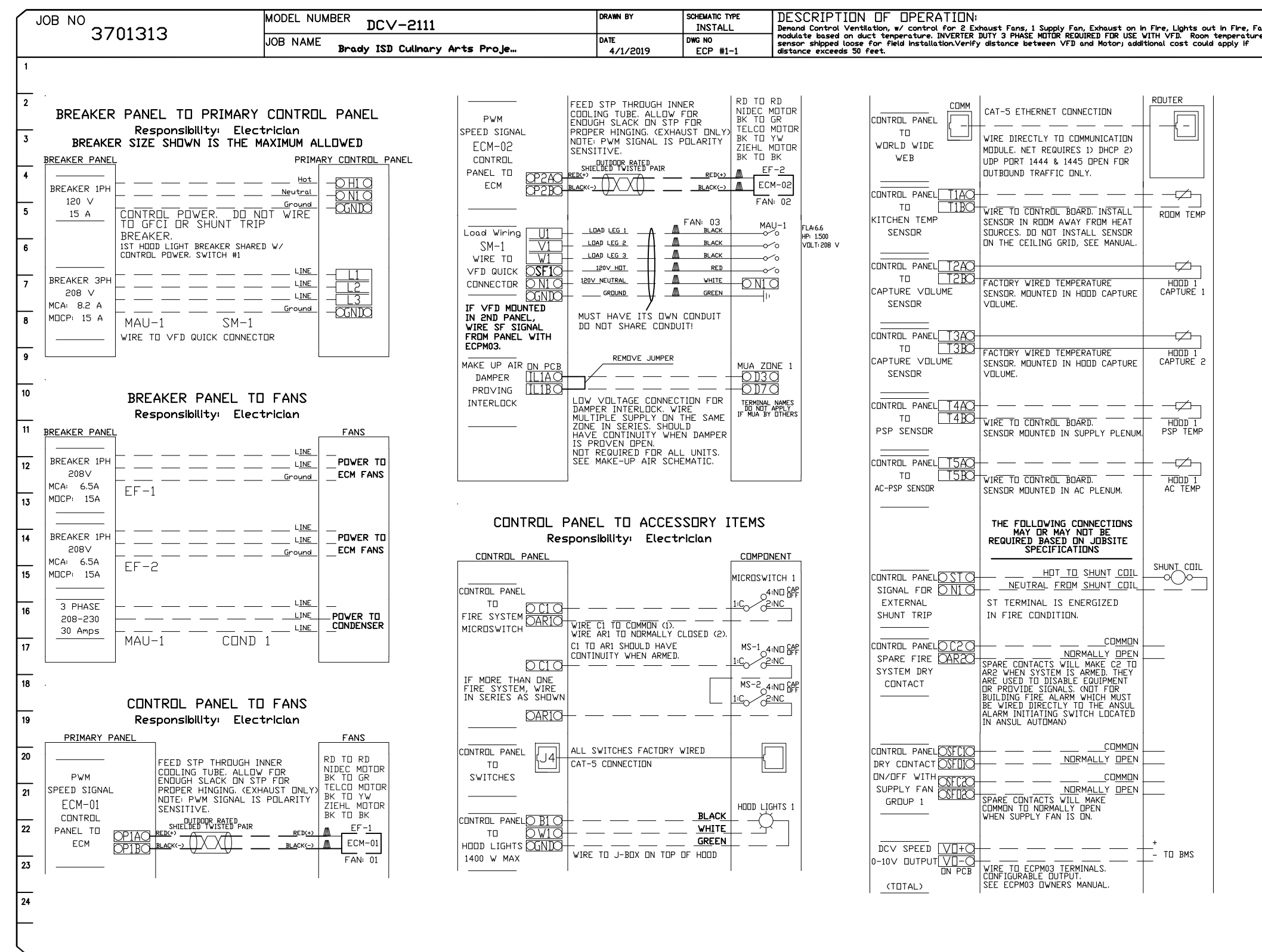


CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

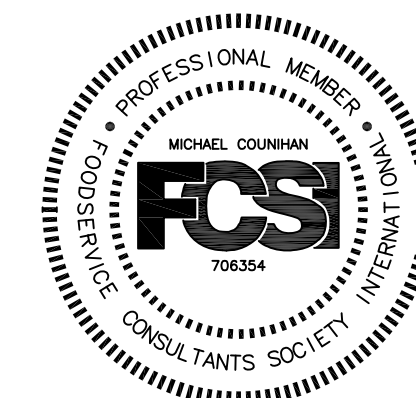
MONITORING AND CONTROL POINTS LIST

Table with columns: DCV Packages, Function, SC Packages, Function. Lists various monitoring and control points like Room Temperature, Duct Temperature, MIA Discharge Temperature, etc.



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Brady ISD Culinary Arts Project
BRADY, TX, 76825

DATE: 4/1/2019

DWG.#: 3701313

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

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SHEET NO. 8

REVISIONS table with columns: NO., DESCRIPTION, DATE.

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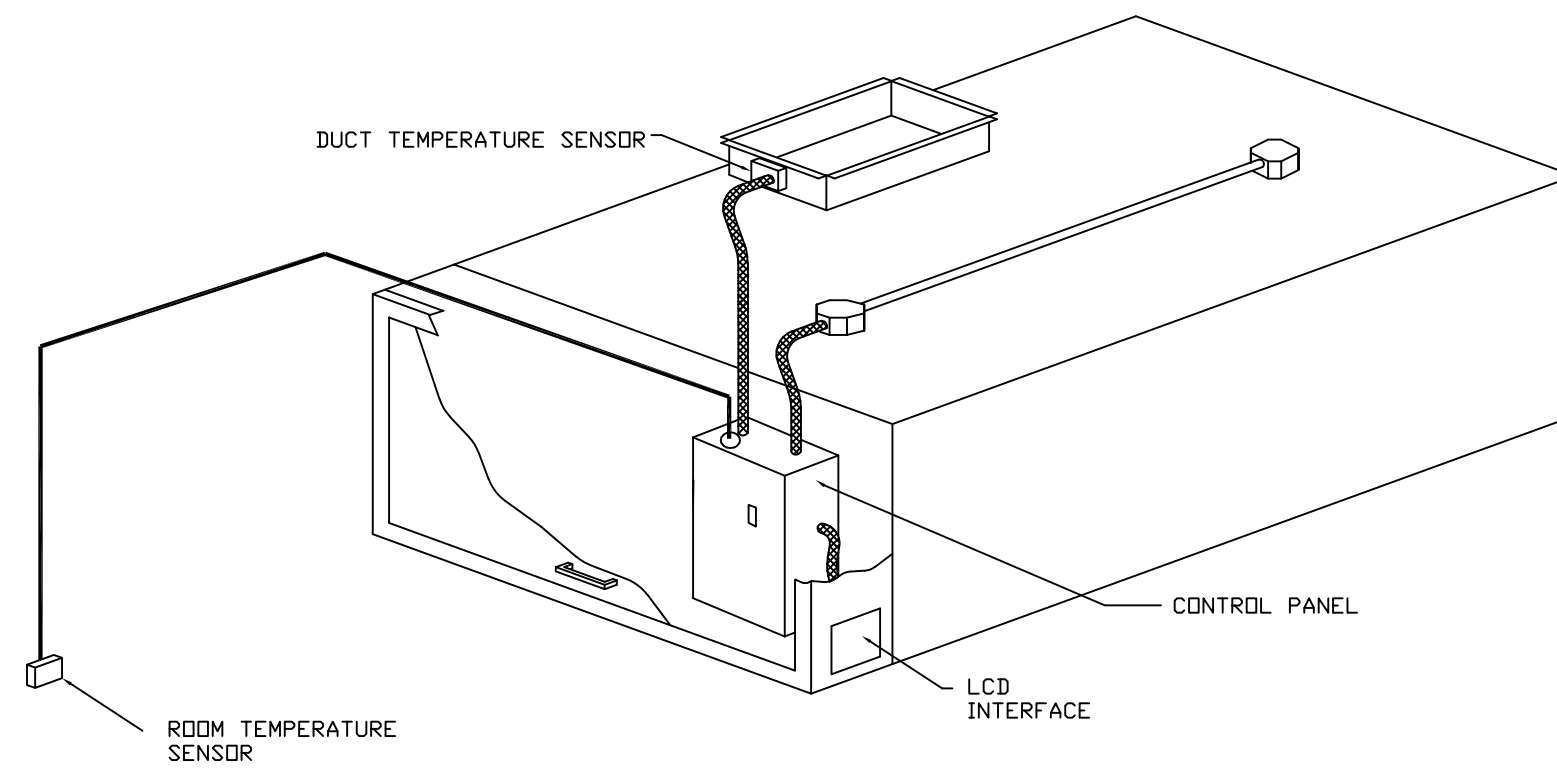
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Bond 2018
Brady, Texas

Project Number 1703
Date: 4/04/2019
Sheet Number

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Demand Control Ventilation Hood Control Panel Specifications:

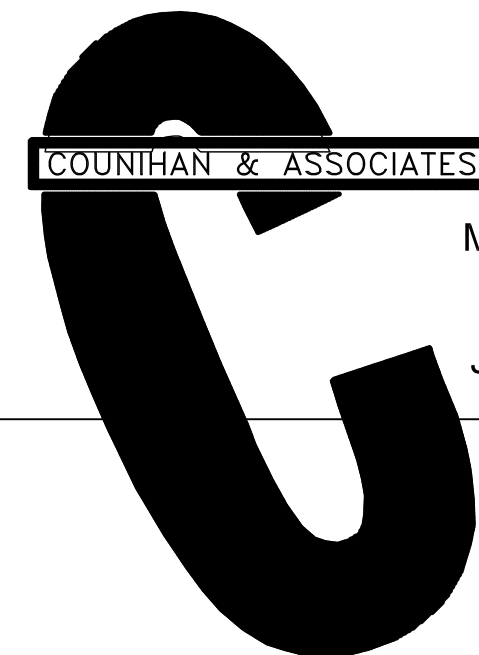
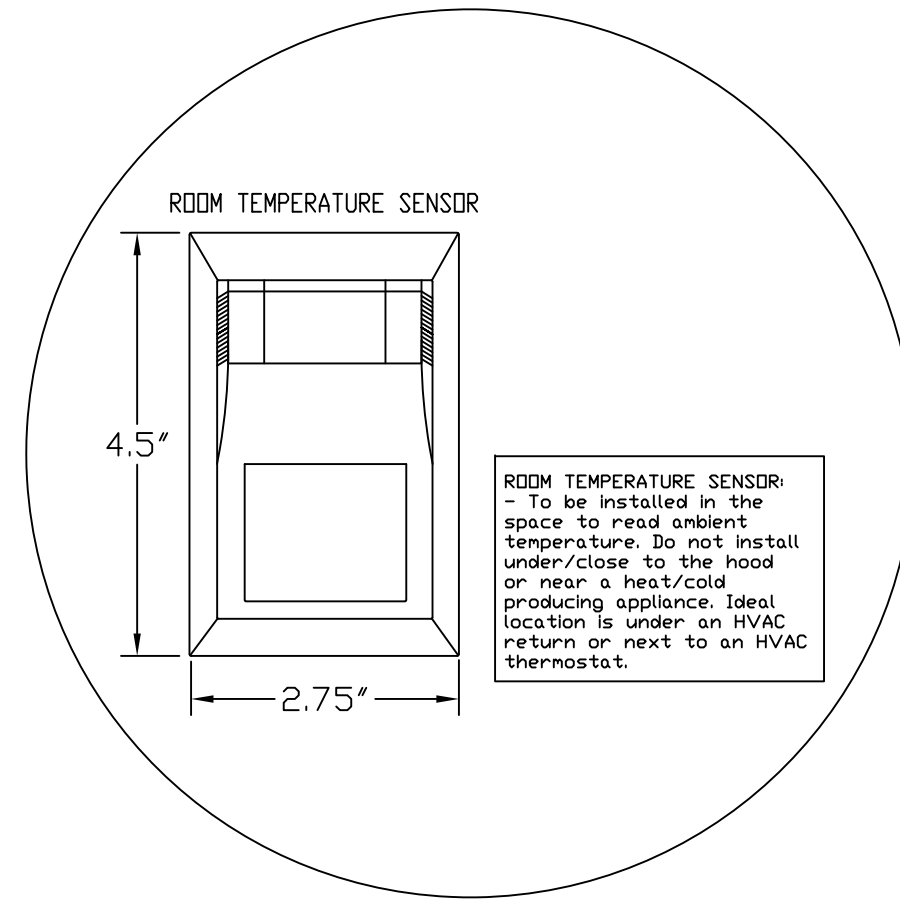
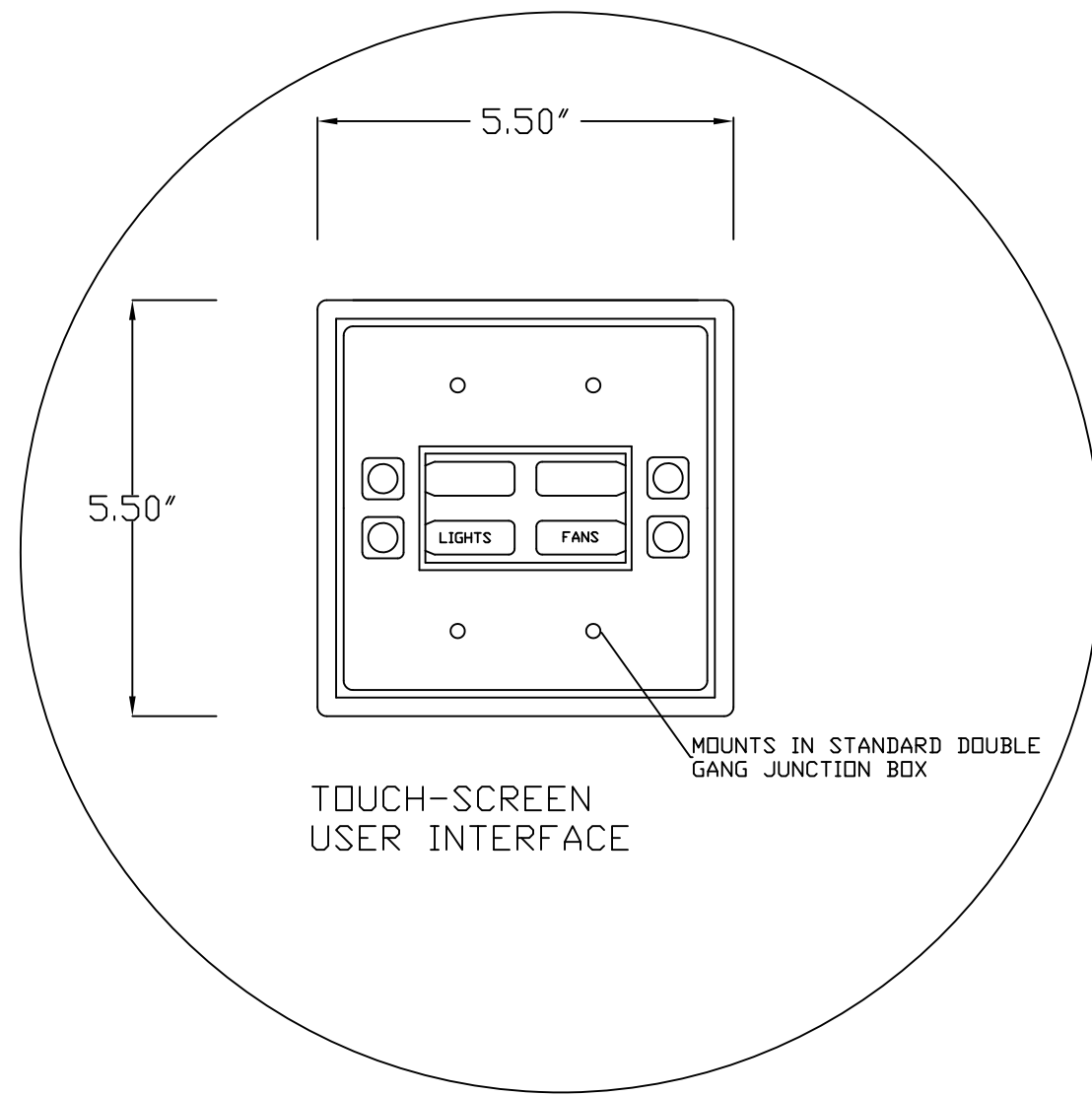
- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
 - a. On/Off push button fan & light switch activation
 - b. Integrated gas valve reset for electronic gas valves (no reset relay required)
 - c. VFD Fault display with audible & visual alarm notification
 - d. Duct temperature sensor failure detection with audible & visual alarm notification
 - e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
 - f. A single low voltage Cat-5 RJ45 wiring connection
 - g. An energy savings indicator that utilizes measured kWh from the VFDs



TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations:

- The hood control panel is capable of operating in one or more of the following states at any given time:
- **Automatic:** The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as 'dynamic', these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as 'static', fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
 - **Manual:** The system operates based on human input from an HMI.
 - **Schedule:** A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
 - **Other:** The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)



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REVISIONS	
DESCRIPTION	DATE

Brady ISD Culinary Arts Project
BRADY, TX, 76825
DATE: 4/1/2019
DWG.#: 3701313
DRAWN BY: JLB-47
SCALE: 3/4" = 1'-0"
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HOOD DETAILED DRAWINGS SHEET 9
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DuctWork #1 Parts - Job#3701313

Tag	Part #	CFM	S.P.	Weight	Velocity	QTY	Description	
P1	DW1245DWASY-2R-S	1575	-0.0665	16.53	2005.35	1	Double Wall Duct - 12" Inner 45 Duct - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.	
P2	DW1245DWASY-2R-S	1575	-0.095	16.53	2005.35	1	Double Wall Duct - 12" Inner 45 Duct - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.	
P3	DW1229DWLT-2R-S	1575	-0.0203	36.55	2005.35	1	Double Wall Duct - 12" Inner Duct, 29' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.	
P4	DW1247DWAJD-2R-S	1575	-0.0157	92.69	2005.35	1	Double Wall Adjustable Duct - 12" Inner Duct, 47' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell. Min Length = 11' / Max Length = 48.5' / Adjustment = 30.5' / Adjustable Section May Need To Be Cut. Includes single and double wall "V" Clamps.	
P5	Assembled w/P6	DW1229DWLT-2R-S	1575	-0.02	36.55	2005.35	1	Double Wall Duct - 12" Inner Duct, 29' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.
P6	Assembled w/P5	DW2312TPDBEX	1575	0	8.00	2005.35	1	Duct to Curb Transition 3/4" Down Turn, 23" Curb to 12" Duct, 16 GA Aluminized. Used on NCA14FA & NCA14HPFA. Transition Plate OD is 23.5" Designed For Use With Exhaust Fan. Non-Standard Part.
System at P6		1575	-1.002					
P7	DW1245DWASY-2R-S	1575	-0.0665	16.53	2005.35	1	Double Wall Duct - 12" Inner 45 Duct - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.	
P8	DW1245DWASY-2R-S	1575	-0.095	16.53	2005.35	1	Double Wall Duct - 12" Inner 45 Duct - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.	
P9	DW1229DWLT-2R-S	1575	-0.0203	36.55	2005.35	1	Double Wall Duct - 12" Inner Duct, 29' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.	
P10	DW1247DWAJD-2R-S	1575	-0.0157	92.69	2005.35	1	Double Wall Adjustable Duct - 12" Inner Duct, 47' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell. Min Length = 11' / Max Length = 48.5' / Adjustment = 30.5' / Adjustable Section May Need To Be Cut. Includes single and double wall "V" Clamps.	
P11	Assembled w/P12	DW1229DWLT-2R-S	1575	-0.02	36.55	2005.35	1	Double Wall Duct - 12" Inner Duct, 29' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Shell.
P12	Assembled w/P11	DW2312TPDBEX	1575	0	8.00	2005.35	1	Duct to Curb Transition 3/4" Down Turn, 23" Curb to 12" Duct, 16 GA Aluminized. Used on NCA14FA & NCA14HPFA. Transition Plate OD is 23.5" Designed For Use With Exhaust Fan. Non-Standard Part.
System at P12		1575	-1.002					
	3M-2000PLUS			0.80		3	Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.	
	DW12DWCLASY-2R-S			6.90		4	Duct - 12" Duct - 16" Double "V" Clamp - 2R Insulation & Single "V" Clamp Included - Reduced Clearance.	
	DW16DWRISE-2R-S			7.31		2	Double Wall Riser Cover - Used On 12" Inner Riser, 4' long - 2 Layers Reduced Clearance - 16" Stainless Steel Outer Riser Shell Assembly. Includes Insulation & Single V Clamps For Inner & Outer Connections.	
Total Weight				458.32				

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'

DOUBLE WALL FACTORY BUILT DUCTWORK

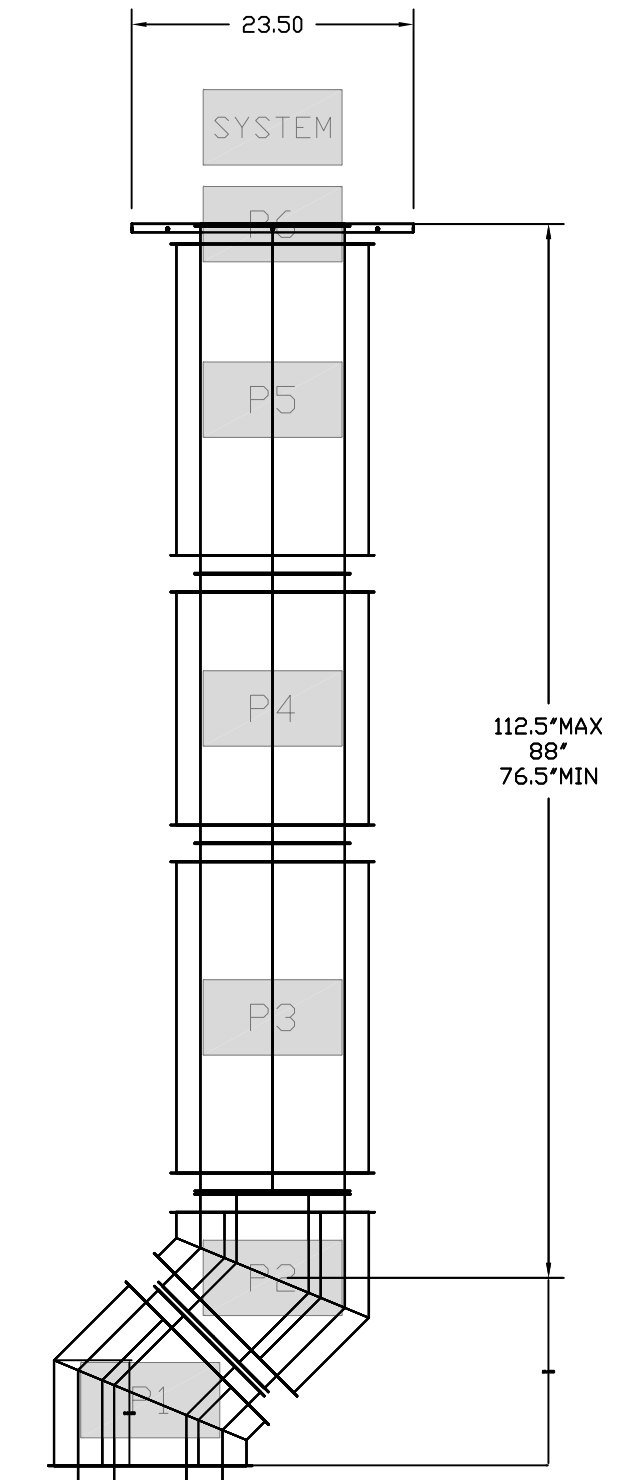
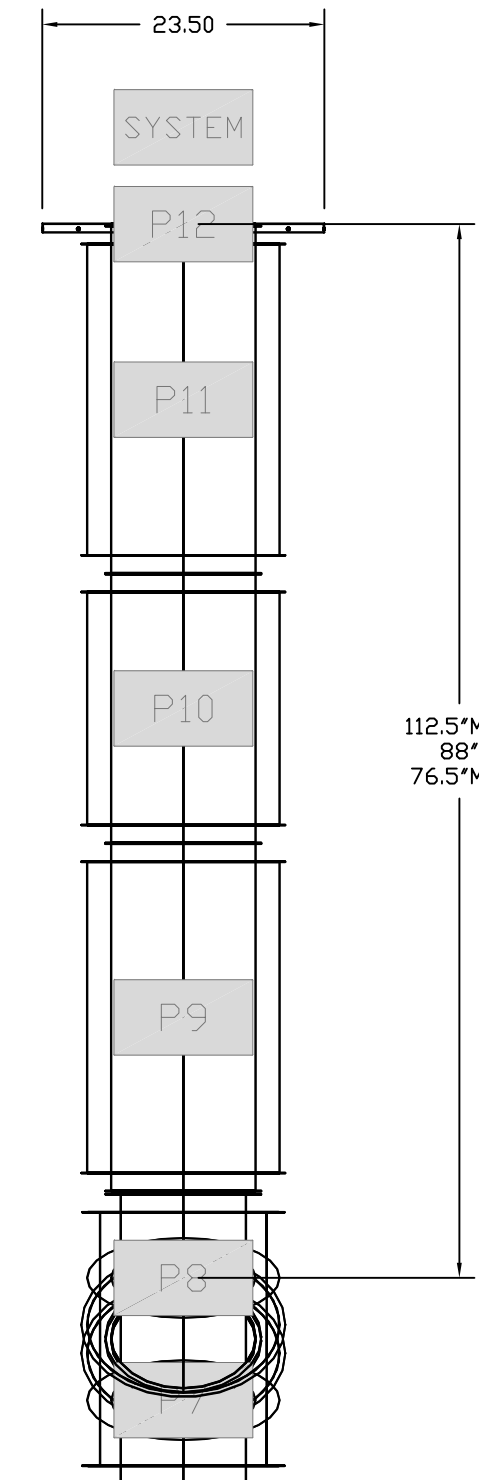
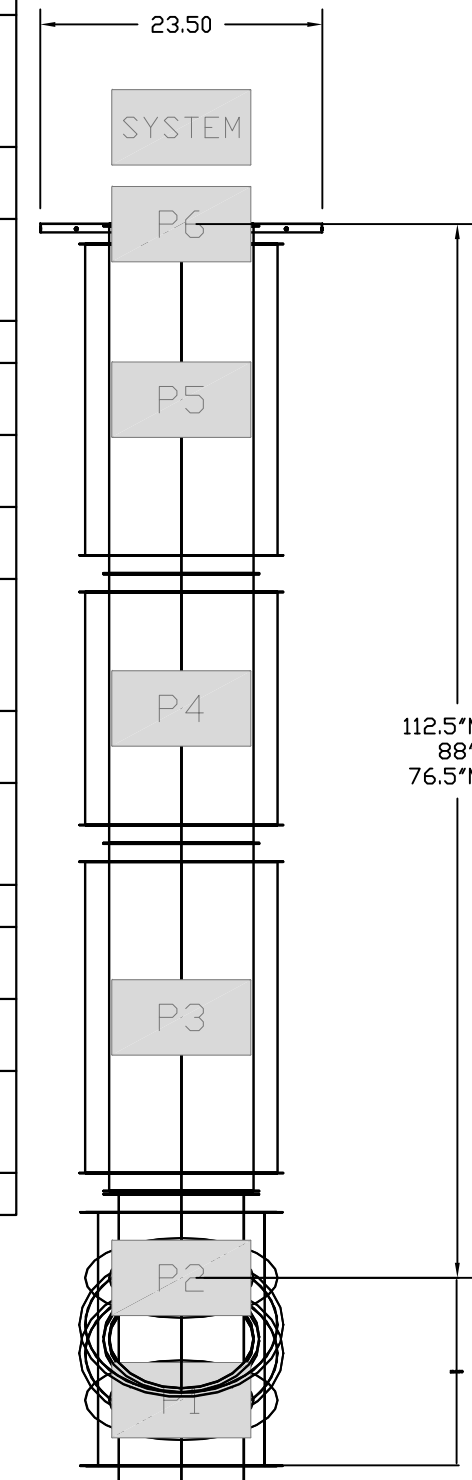
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- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (ft)
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'

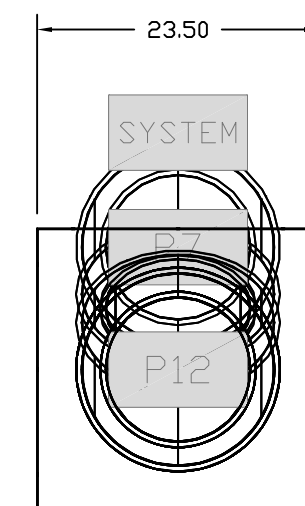
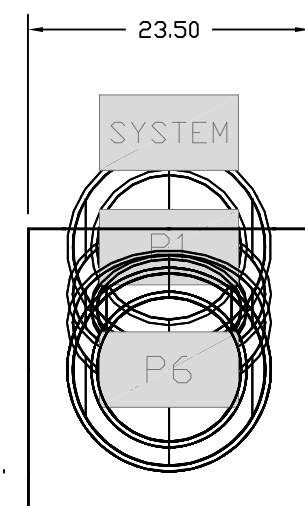
VERTICAL			
TYPE	WALL SUPPORT (ft)	CURB SUPPORT (ft)	FLOOR SUPPORT (ft)
2R & 2R HT	20'	24'	24'
3R	10'	24'	24'
3Z	10'	24'	24'

DuctWork #1 Front View

DuctWork #1 Side View



DuctWork #1 Top View



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SCALE: 3/4" = 1'-0"
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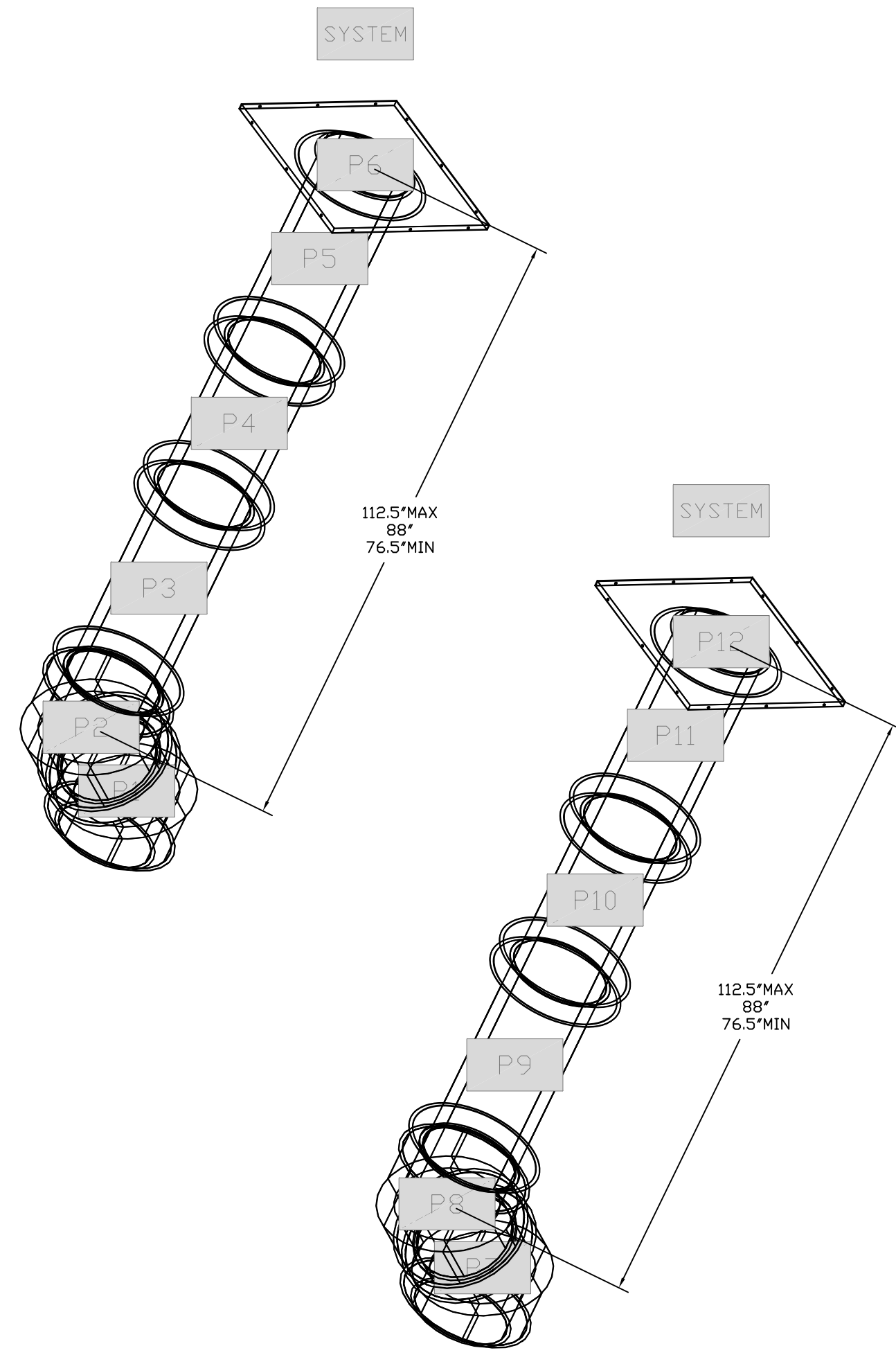
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Sheet Number FS3.10

HOOD DETAILED DRAWINGS SHEET 10
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DuctWork #1 SE View

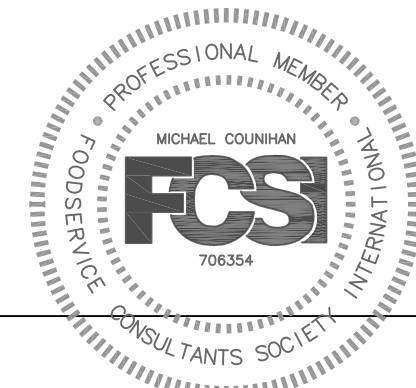


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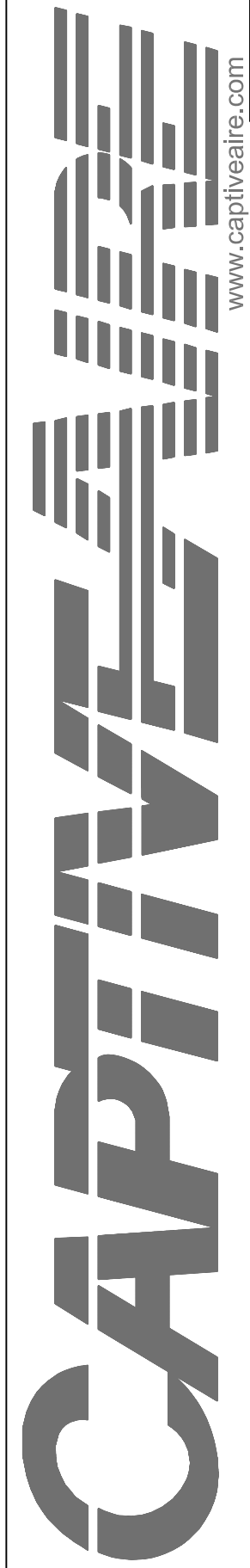
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HOOD DETAILED DRAWINGS SHEET 11

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DATE: 4/1/2019
DWG.#: 3701313
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SCALE: 3/4" = 1'-0"
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4/04/2019

Sheet Number

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DuctWork #2 Parts - Job#3701313

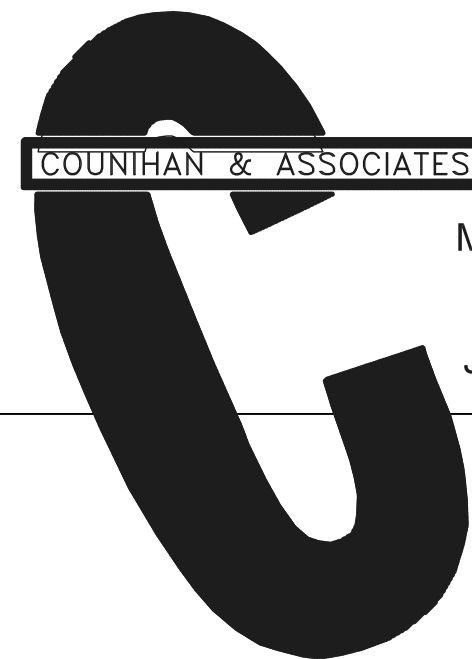
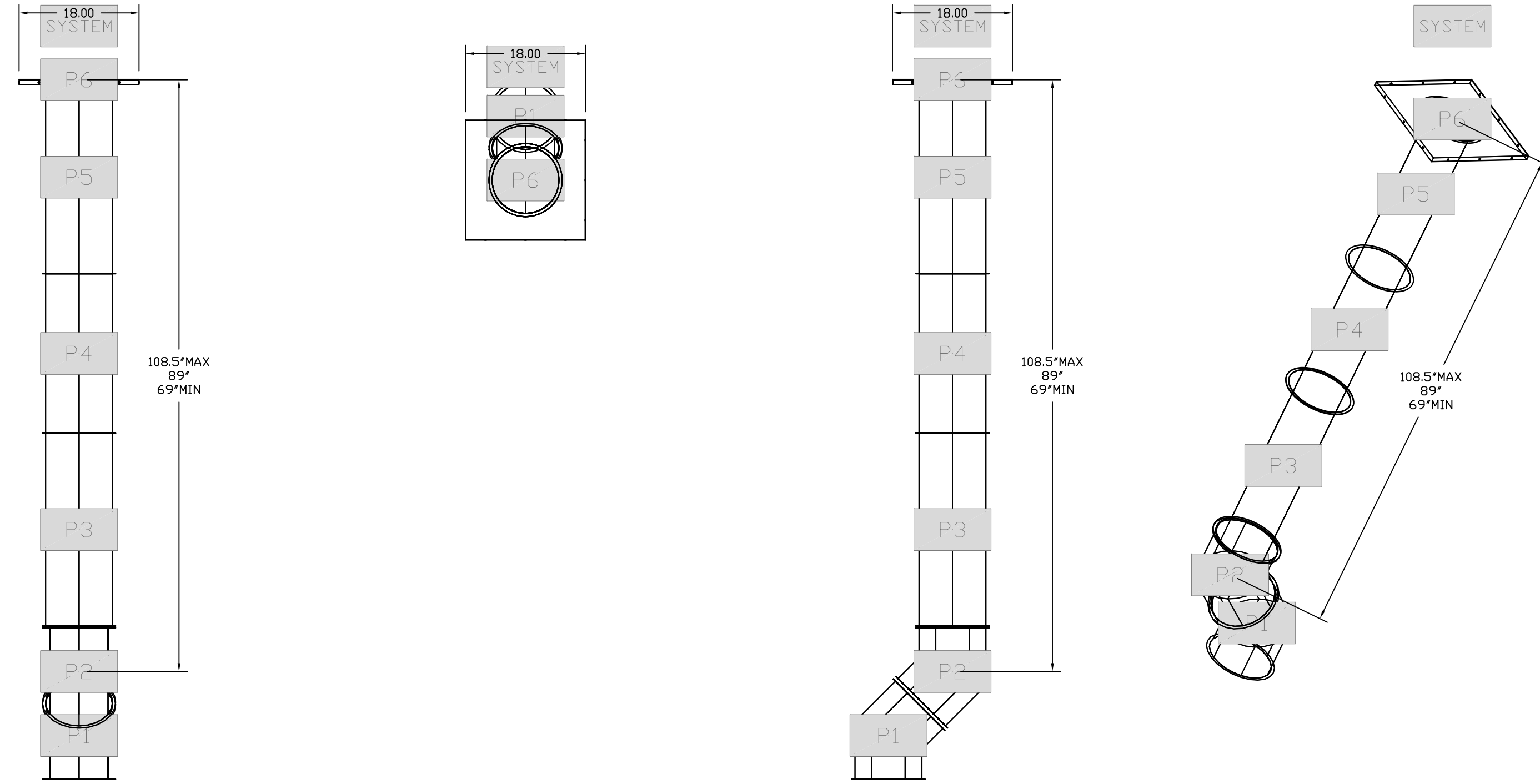
Tag	Part #	CFM	S.P.	Weight	Velocity	QTY	Description
P1	DW1045ASY	600	-0.0192	4.62	1100.08	1	Single Wall Duct 45 Degree Elbow, 10' Duct, Assembly.
P2	DW1045ASY	600	-0.0275	4.62	1100.08	1	Single Wall Duct 45 Degree Elbow, 10' Duct, Assembly.
P3	DW1029LT	600	-0.0071	9.75	1100.08	1	Single Wall Duct 10' diameter, 29' long, flange at both ends. Stainless Steel.
P4	DW1048AJDKIT	600	-0.0059	18.63	1100.08	1	Single Wall Duct Adjustable, 10' diameter, 47.5' long, flange at one end With a 10' Adjustable Collar - Stainless Steel.
P5 Assembled w/P6	DW1029LT	600	-0.007	9.75	1100.08	1	Single Wall Duct 10' diameter, 29' long, flange at both ends. Stainless Steel.
P6 Assembled w/P5 System at P6	DW1710TPDBEX	600	0	6.50	1100.08	1	Duct to Curb Transition 3/4' Down Turn, 17-1/2' Curb to 10' Duct, 16 GA Aluminized. For Use With Exhaust Fans.
	3M-2000PLUS			0.80		1	Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.
	DW10CLASY			1.10		5	Duct 'V' Clamp With new design 14 Ga Brackets, 10' Duct, Assembly.
Total Weight				60.17			

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'

DuctWork #2 Front View DuctWork #2 Top View DuctWork #2 Side View DuctWork #2 SE View



M. COUNIHAN,
FCSI #706354
J. COUNIHAN,
IIDA #306879

CONSULTANTS AND DESIGNERS
FOR THE HOSPITALITY INDUSTRY
AND THE FOOD SERVICE INDUSTRY



HOOD DETAILED DRAWINGS SHEET 12
100% CD

REVISIONS	
DESCRIPTION	DATE

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Brady ISD Culinary Arts Project
BRADY, TX, 76825

DATE: 4/1/2019
DWG.#: 3701313
DRAWN BY: JLB-47
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
12



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AUDIO/VISUAL MULTIMEDIA LEGEND	
SYMBOL	DESCRIPTION
A##> V##>	WALL AV ROUGH-IN DETAIL
A## V##	CEILING AV ROUGH-IN DETAIL
A## V##	FLOOR AV ROUGH-IN DETAIL
IWB IWB	INTERACTIVE WHITE BOARD - WALL - CEILING
PJ PJ	MULTIMEDIA PROJECTOR
FP# FP#	MULTIMEDIA FLAT PANEL DISPLAY
S S	LOUD SPEAKER, WALL MOUNTED AND CEILING MOUNTED RESPECTIVELY. # INDICATES TYPE
CP#	CONTROL PANEL
TP#	TOUCH PANEL
M	MICROPHONE, CEILING MOUNTED - # INDICATES TYPE
VC >	VOLUME CONTROL
WB	WALL BOX ENCLOSURE
D1 A1	D1 = DIGITAL SINGLE SIDED CLOCK / A1 = ANALOG SINGLE SIDED CLOCK
D2 A2	D2 = DIGITAL DOUBLE SIDED CLOCK / A2 = ANALOG DOUBLE SIDED CLOCK
CB	CEILING AV ENCLOSURE
C C	PRESENTATION CAMERA - CEILING - WALL MOUNTED

PREMISE SECURITY LEGEND	
SYMBOL	DESCRIPTION
CR	CARD READER
KP	KEYPAD
IC	INTERCOM (1 DATA CABLE)
PB	PANIC/DURESS BUTTON
LD	LOCK DOWN BUTTON
MD	MOTION DETECTOR
GB	GLASS BREAK SENSOR
BM	BIOMETRIC READER
RX	REQUEST TO EXIT - SURFACE
RX	REQUEST TO EXIT - INTEGRATED
DC	DOOR CONTACT / MONITOR
ES EL EH	ELECTRIFIED STRIKE - ELECTRIFIED LATCH - ELECTRIFIED HARDWARE (REFER TO SCHEDULES)
DB	DOORBELL
C C	STANDARD IP SURVEILLANCE CAMERA, (1) CABLE
C C	180° IP SURVEILLANCE CAMERA, (1) CABLE
C	360° IP SURVEILLANCE CAMERA, (1) CABLE
DR	DOOR RELEASE
DR	DOOR RELEASE CONTROL
AA	AUDIBLE ALARM

GENERAL ANNOTATION LEGEND	
SYMBOL	DESCRIPTION
MER	MAIN EQUIPMENT ROOM
TR	TELECOMMUNICATION ROOM
MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
ETR	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
UNO	UNLESS NOTED OTHERWISE

STRUCTURED CABLING LEGEND	
SYMBOL	DESCRIPTION
#	TELECOMMUNICATIONS OUTLET, # = NUMBER OF DATA CABLE(S)/JACK(S)
##	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S)
#	TELECOMMUNICATIONS OUTLET, # = NUMBER OF VOICE/DATA CABLE(S)/JACK(S), SURFACE MOUNT
##	TELECOMMUNICATIONS OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S), SURFACE MOUNT
W	WALL MOUNT PHONE (1 CABLE/JACK)
W	WALL MOUNT PHONE, SURFACE MOUNT (1 CABLE/JACK)
#	FLOOR MOUNTED OUTLET, # = NUMBER OF VOICE/DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
##	FLOOR MOUNTED OUTLET, ## = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#	CEILING MOUNTED DATA OUTLET, # = NUMBER OF VOICE/DATA CABLE(S)/JACK(S)
AP#	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT # = NUMBER OF CABLE(S)/JACK(S)
AP#>	WALL MOUNTED OUTLET FOR WIRELESS ACCESS POINT # = NUMBER OF CABLE(S)/JACK(S)
	CABLING SLEEVE(S)
	TYPICAL LADDER RACK
	TYPICAL CABLE TRAY, BASKET STYLE

TECHNOLOGY SHEET INDEX	
SHEET NUMBER	SHEET NAME
T000	TECHNOLOGY - INDEX SHEET
T001	TECHNOLOGY - SITE PLAN - ELEMENTARY SCHOOL
T002	TECHNOLOGY - SITE PLAN - MIDDLE SCHOOL
T003	TECHNOLOGY - SITE PLAN - HIGH SCHOOL
T010	TECHNOLOGY - ELEMENTARY SCHOOL OVERALL
T020	TECHNOLOGY - MIDDLE SCHOOL OVERALL
T030	TECHNOLOGY - HIGH SCHOOL OVERALL
T100	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT A
T101	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT B
T102	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT C
T103	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT D
T104	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT E - DEMO
T105	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT E
T106	TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT F
T200	TECHNOLOGY - MIDDLE SCHOOL - SEGMENT A
T201	TECHNOLOGY - MIDDLE SCHOOL - SEGMENT B
T202	TECHNOLOGY - MIDDLE SCHOOL - SEGMENT C
T203	TECHNOLOGY - MIDDLE SCHOOL - SEGMENT D
T204	TECHNOLOGY - MIDDLE SCHOOL - SEGMENT E
T300	TECHNOLOGY - HIGH SCHOOL - SEGMENT A
T301	TECHNOLOGY - HIGH SCHOOL - SEGMENT B
T302	TECHNOLOGY - HIGH SCHOOL - SEGMENT C
T303	TECHNOLOGY - HIGH SCHOOL - SEGMENT D
T304	TECHNOLOGY - HIGH SCHOOL - SEGMENT E
T305	TECHNOLOGY - HIGH SCHOOL - SEGMENT F
T306	TECHNOLOGY - HIGH SCHOOL - SEGMENT G
T400	TECHNOLOGY - ENLARGEMENTS
T500	TECHNOLOGY DETAILS
T501	TECHNOLOGY DETAILS
T502	TECHNOLOGY DETAILS
T503	TECHNOLOGY DETAILS
T504	TECHNOLOGY DETAILS

TECHNOLOGY - GENERAL NOTES

- EACH KEYNOTE MAY NOT BE UTILIZED ON EVERY SHEET.
- ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
- ALL CABLES SHALL BE CONCEALED.
- EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 1-1/4" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL COMPLY WITH NEC.
- DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL REVIEW CONDITIONS AND COORDINATE WITH OTHER TRADES AS NECESSARY FOR EXACT PLACEMENT.

TECHNOLOGY SYMBOLS LEGEND NOT ALL SYMBOLS ARE USED

AV WALL ROUGH-IN WITH DATA
KEYNOTE
Proposed Camera Direction SURVEILLANCE CAMERA
Camera Schedule Number (Floor #-Camera #)
Camera (N)ew, (E)xisting Rough-in, (D)emo
Proposed Camera Direction PTZ CAMERA
Proposed Camera Direction FIXED SURVEILLANCE CAMERA
360°/MULTI-SENSOR FIXED SURVEILLANCE CAMERA OR FISHEYE LENS CAMERA
Approximate view of lens
Lens View Angle
360°/MULTI-SENSOR FIXED SURVEILLANCE CAMERA OR FISHEYE LENS CAMERA
Lens size
MICROPHONE WITH AUDIO LINKED TO CAMERA
MICROPHONE WITH AUDIO LINKED TO CAMERA
SYMBOL TAG
(#) = DIFFERENT TYPES OF CARD READERS:
M = MULLION
W = WIRELESS (Proprietary)
Wi = WI-FI (802.11)
POE = POWER OVER ETHERNET

TOP = DETAIL NUMBER
DETAIL REFERENCE
BOTTOM = SHEET NUMBER
NORTH ARROW
SHEET NUMBER
SECTION MARKER
DETAIL NUMBER
DIRECTION OF ELEVATION
ELEVATION MARKER
SHEET NUMBER
DETAIL NUMBER
DIRECTION OF ELEVATION
SHEET NUMBER
DIRECTION OF ELEVATION
DETAIL NUMBER
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY

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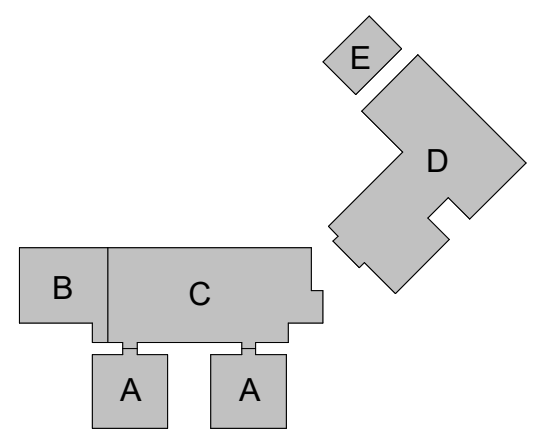
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Brady Middle School



MIDDLE SCHOOL KEYPLAN

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Revision:	
Project Number	1703
Date:	04-04-19
Sheet Number	

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1 Technology - Middle school - Site Plan
 SCALE: NTS

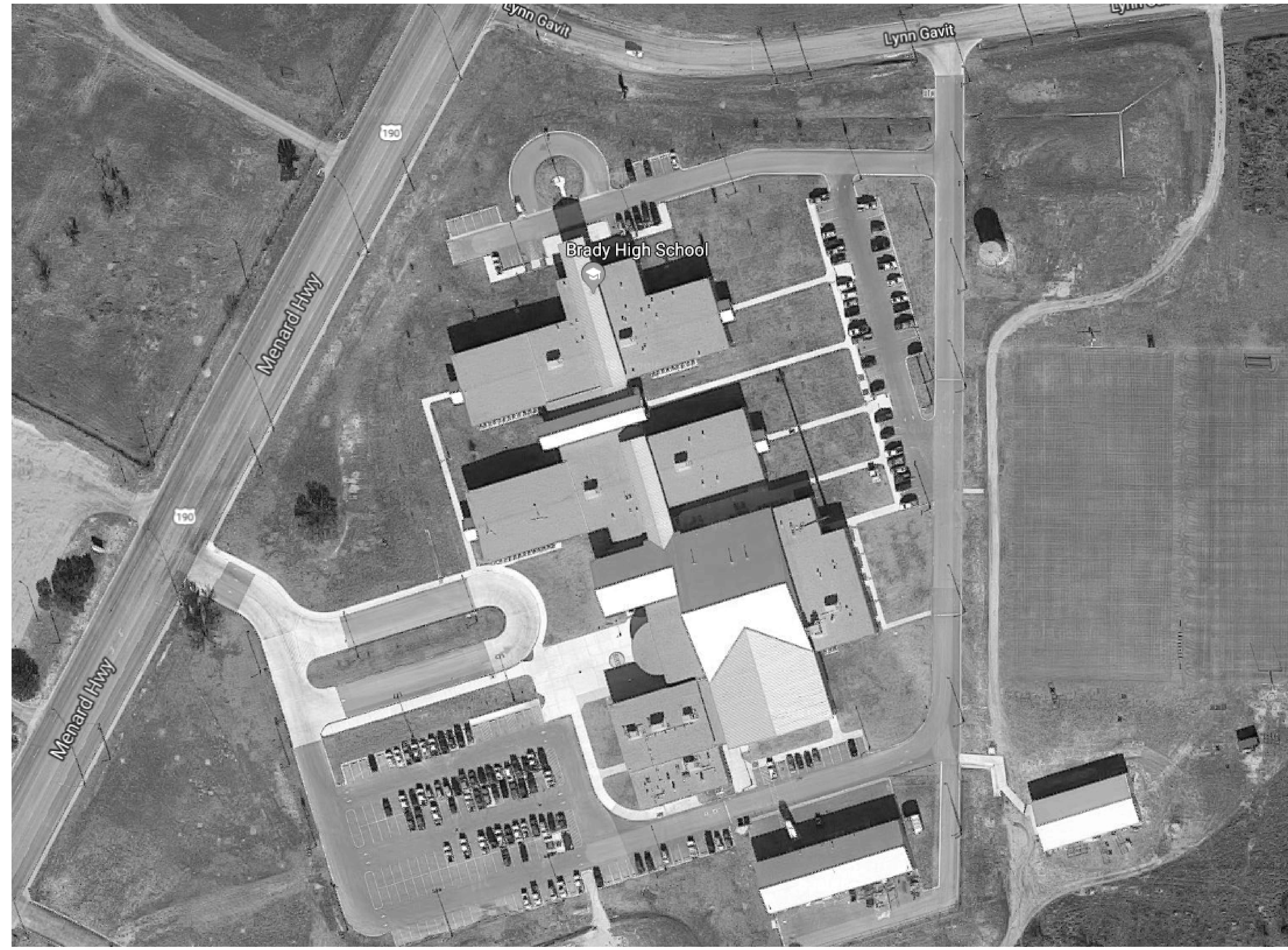


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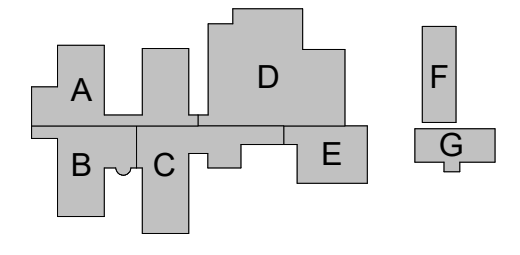
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① Technology - High school - Site Plan
 1" = 30'-0"



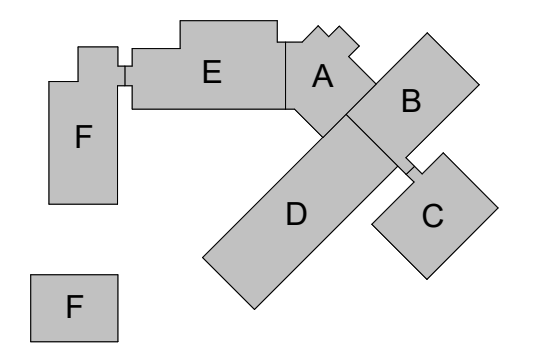
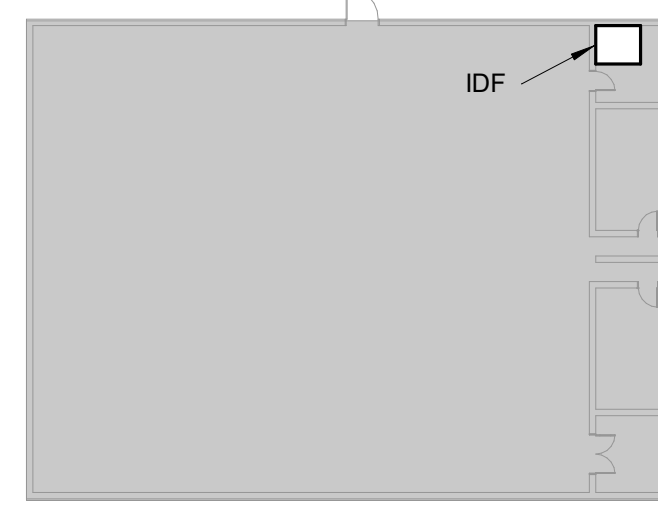
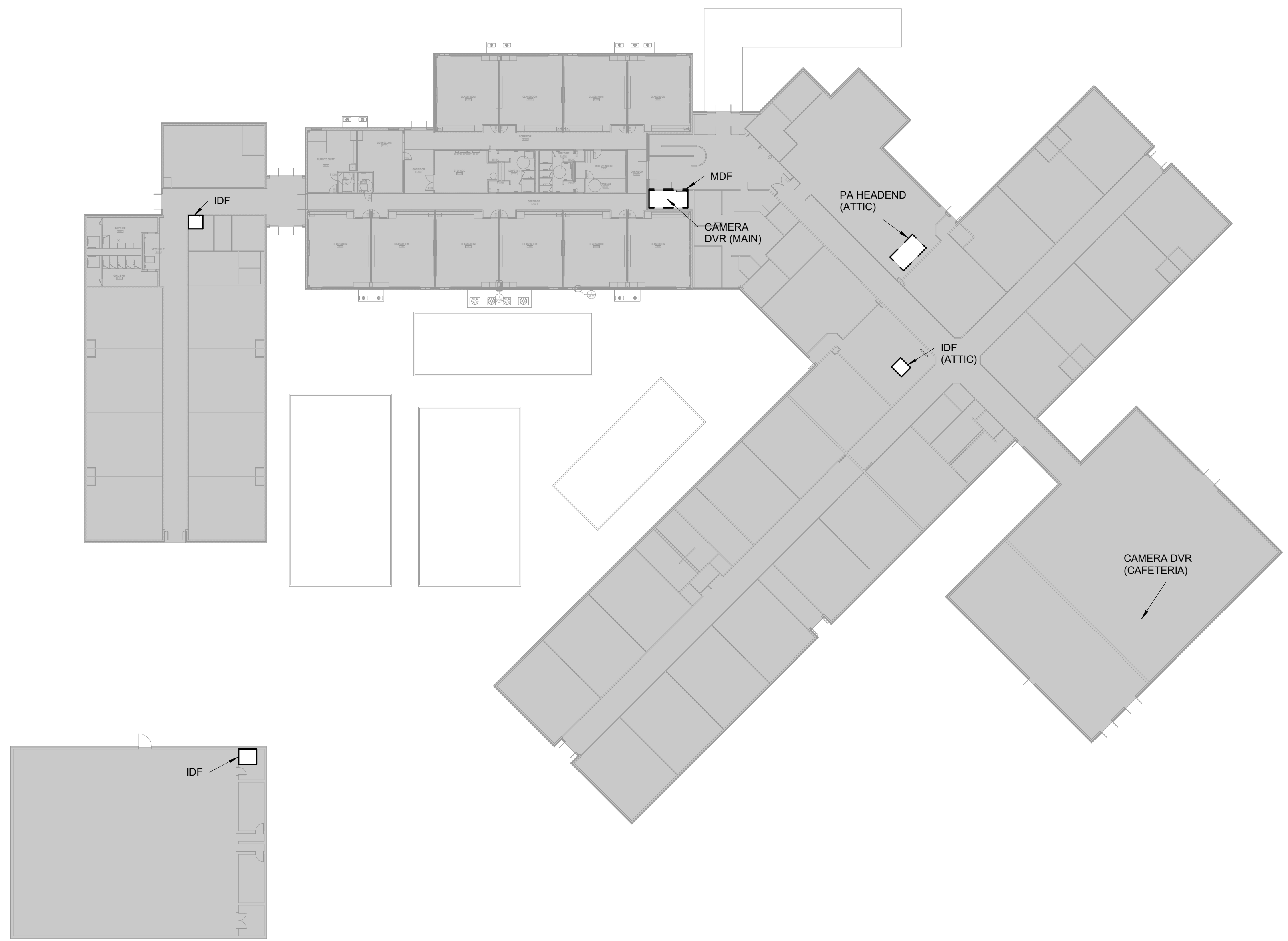
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TECHNOLOGY - SITE PLAN - HIGH SCHOOL T003



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① Technology - Elementary School Overall
1" = 30'-0"

TECHNOLOGY - ELEMENTARY SCHOOL OVERALL T010



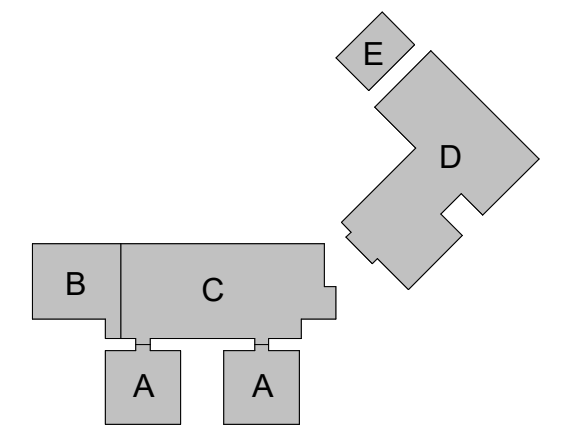
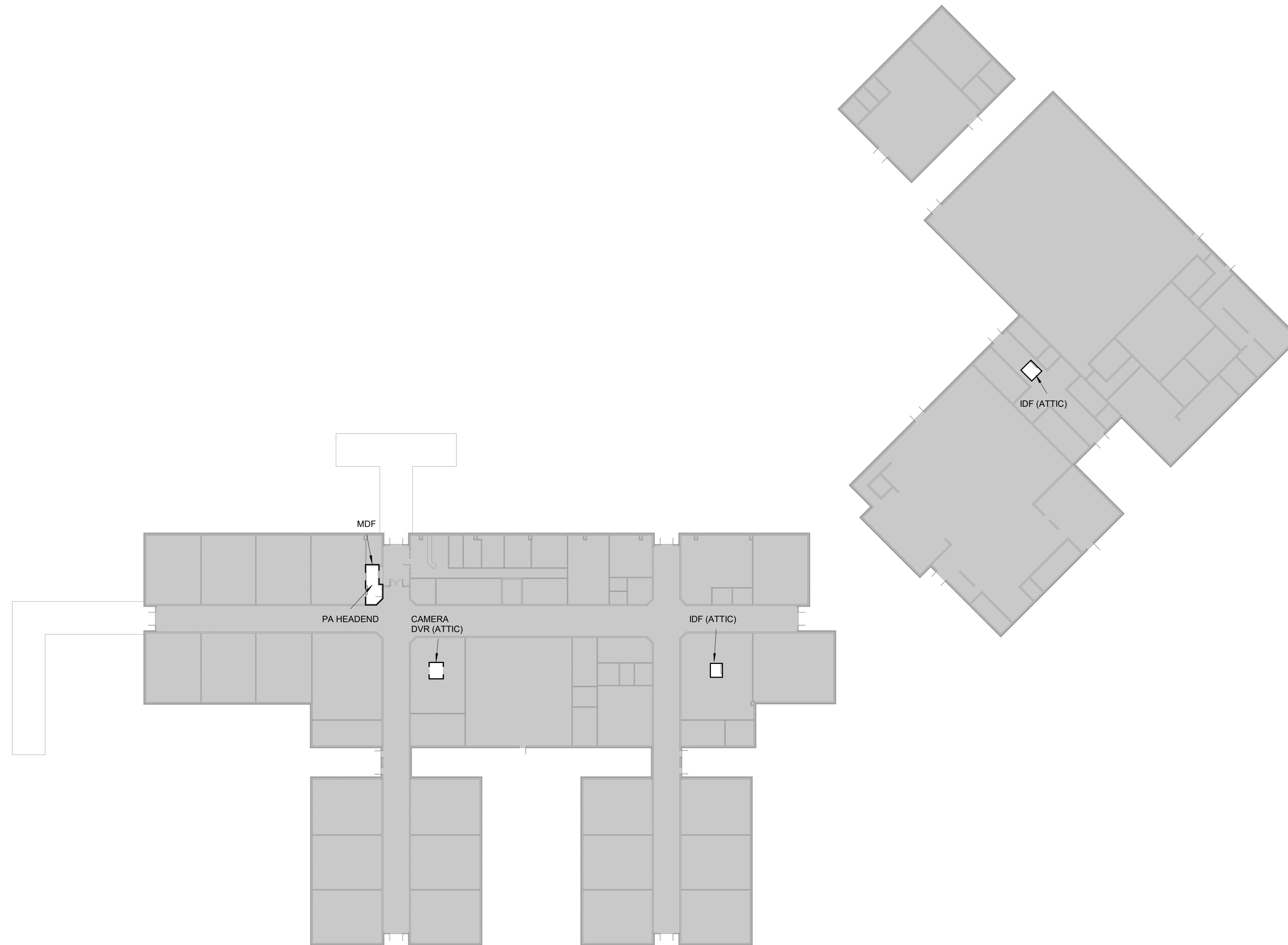
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① Technology - Middle School Overall
 1" = 30'-0"

TECHNOLOGY - MIDDLE SCHOOL OVERALL T020

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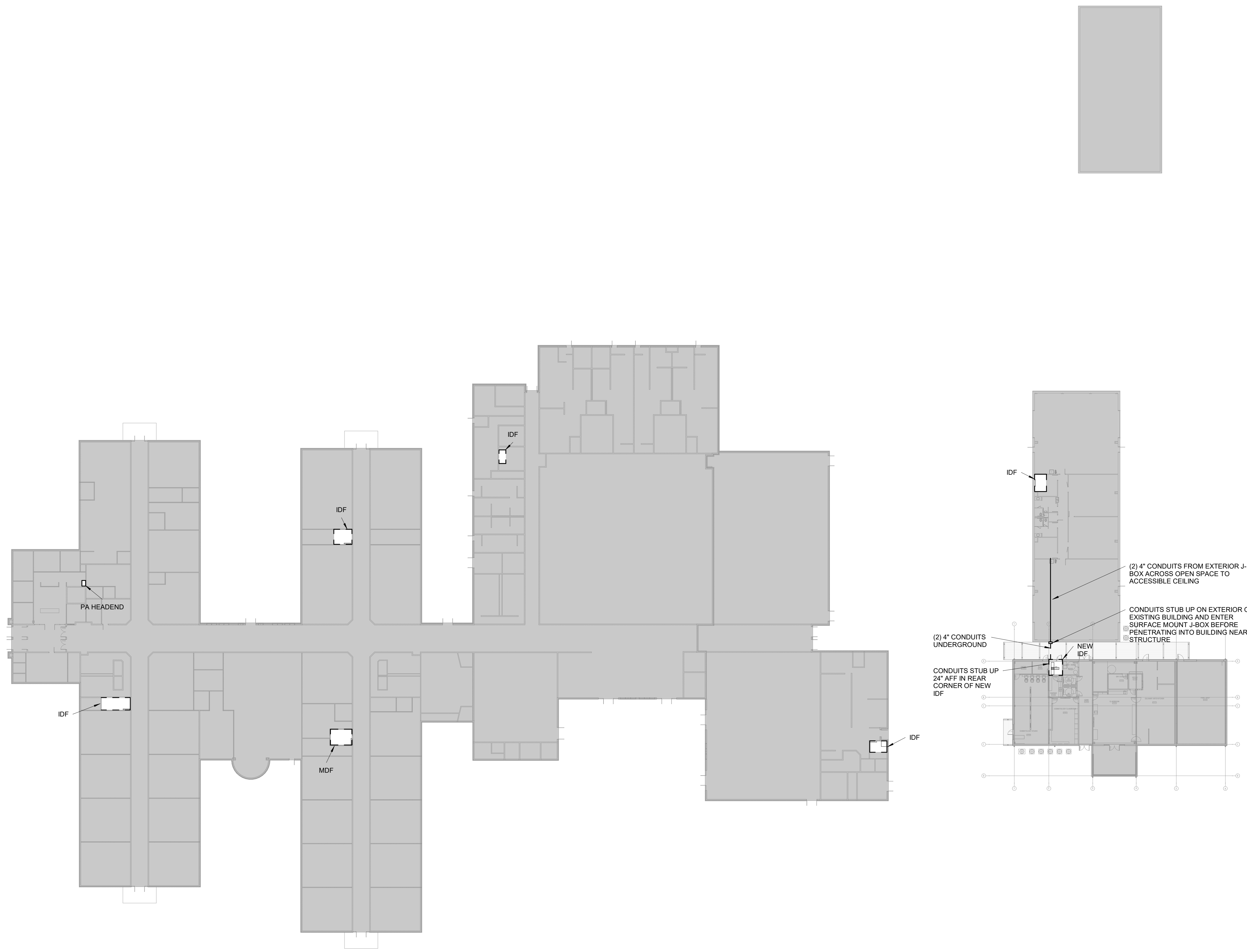
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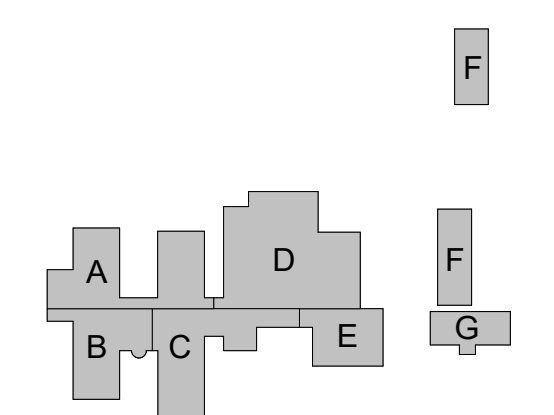
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1 Technology - High School Overall
 1" = 30'-0"



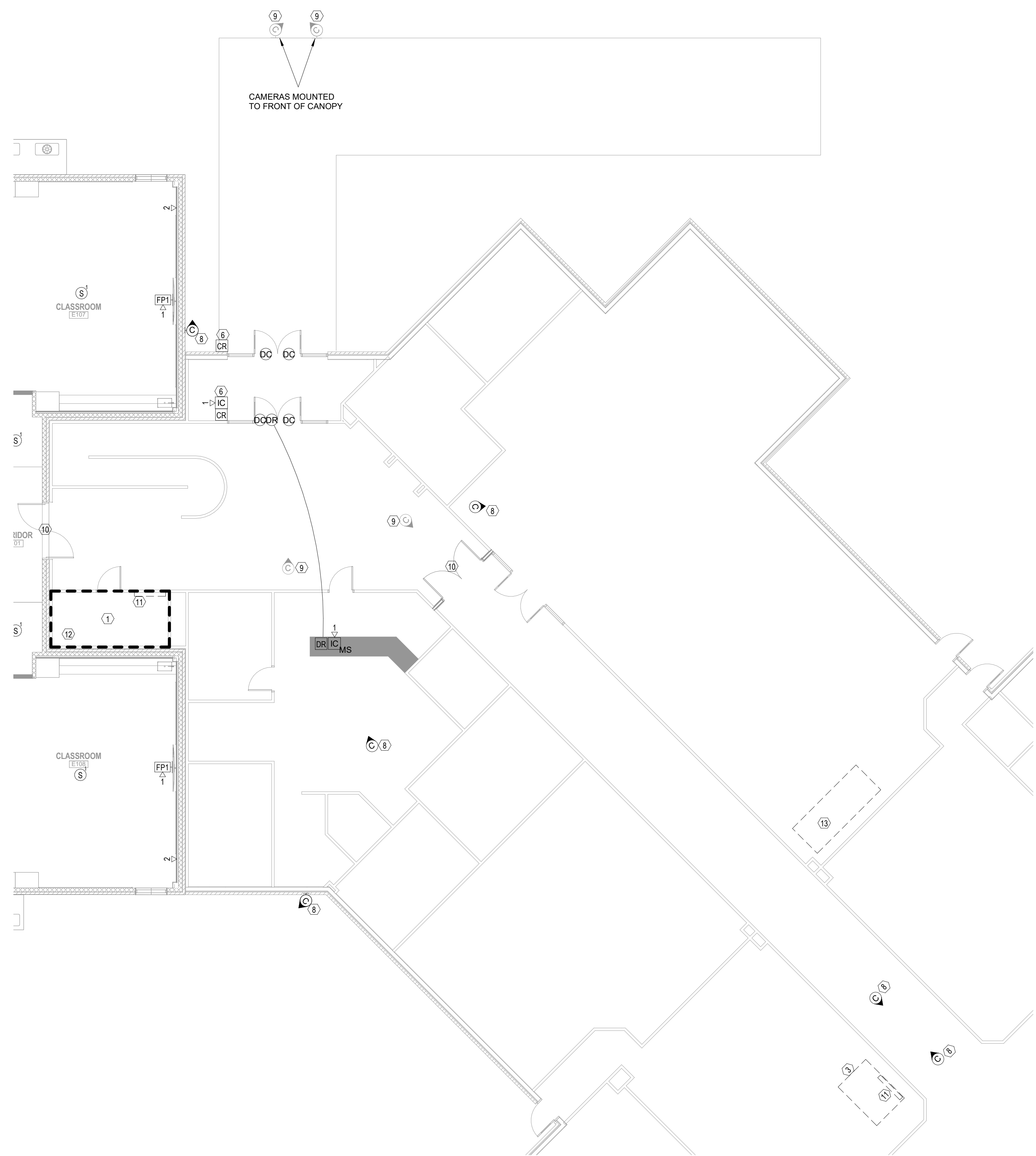
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TECHNOLOGY - HIGH SCHOOL OVERALL T030

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TECHNOLOGY KEYNOTES	
①	EXISTING MDF
②	EXISTING IDF
③	EXISTING IDF IN ATTIC WITH CEILING ACCESS LADDER
④	EXISTING CAMERA TO REMAIN; NO DATA CABLING REQUIRED
⑤	NEW IP CAMERA
⑥	ACCESS CONTROL AT THIS DOOR INCLUDED IN BASE BID.
⑦	ACCESS CONTROL AT THIS DOOR TO BE PART OF ACCESS CONTROL ALTERNATE
⑧	ROUGH IN FOR FUTURE IP CAMERA (BACKBOX, CONDUIT, AND DATA CABLE)
⑨	EXISTING CAMERA TO REMAIN; PROVIDE NEW DATA CABLE AT THIS LOCATION FOR FUTURE IP CAMERA
⑩	DOORS WITH MAGLOCKS, TIE INTO ACCESS CONTROL SYSTEM TO BE SHUT IN THE EVENT OF A LOCKDOWN.
⑪	NEW ACCESS CONTROL PANEL. FIELD COORDINATE EXACT LOCATION BASED ON EXISTING WALL CONDITIONS. TYPICALLY LOCATED IN TELECOM ROOMS OR ADJACENT TO WALL-MOUNT IDF CABINETS.
⑫	EXISTING DVR FOR COAX CAMERAS. CONTRACTOR TO PROVIDE CONVERTERS TO BRING EXISTING CAMERAS ONTO NEW VIDEO MANAGEMENT SYSTEM (VMS)
⑬	EXISTING PA SYSTEM HEADEND
⑭	EXISTING IP CAMERA TO REMAIN; PROVIDE NEW CAMERA LICENSE TO BRING ONTO NEW VMS



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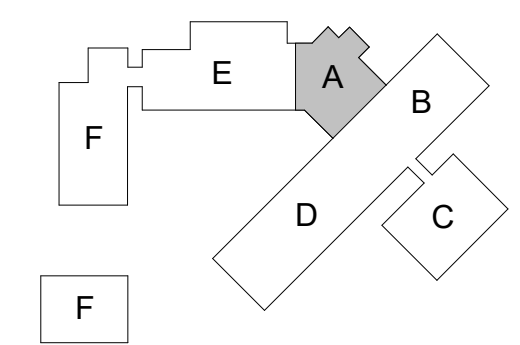
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ELEMENTARY SCHOOL KEYPLAN

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① Technology - Elementary - Segment A
 1/8" = 1'-0"

TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT A T100

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TECHNOLOGY KEYNOTES	
①	EXISTING MDF
②	EXISTING IDF
③	EXISTING IDF IN ATTIC WITH CEILING ACCESS LADDER
④	EXISTING CAMERA TO REMAIN; NO DATA CABLING REQUIRED
⑤	NEW IP CAMERA
⑥	ACCESS CONTROL AT THIS DOOR INCLUDED IN BASE BID.
⑦	ACCESS CONTROL AT THIS DOOR TO BE PART OF ACCESS CONTROL ALTERNATE
⑧	ROUGH IN FOR FUTURE IP CAMERA (BACKBOX, CONDUIT, AND DATA CABLE)
⑨	EXISTING CAMERA TO REMAIN; PROVIDE NEW DATA CABLE AT THIS LOCATION FOR FUTURE IP CAMERA
⑩	DOORS WITH MAGLOCKS, TIE INTO ACCESS CONTROL SYSTEM TO BE SHUT IN THE EVENT OF A LOCKDOWN.
⑪	NEW ACCESS CONTROL PANEL. FIELD COORDINATE EXACT LOCATION BASED ON EXISTING WALL CONDITIONS. TYPICALLY LOCATED IN TELECOM ROOMS OR ADJACENT TO WALL-MOUNT IDF CABINETS.
⑫	EXISTING DVR FOR COAX CAMERAS. CONTRACTOR TO PROVIDE CONVERTERS TO BRING EXISTING CAMERAS ONTO NEW VIDEO MANAGEMENT SYSTEM (VMS)
⑬	EXISTING PA SYSTEM HEADEND
⑭	EXISTING IP CAMERA TO REMAIN; PROVIDE NEW CAMERA LICENSE TO BRING ONTO NEW VMS



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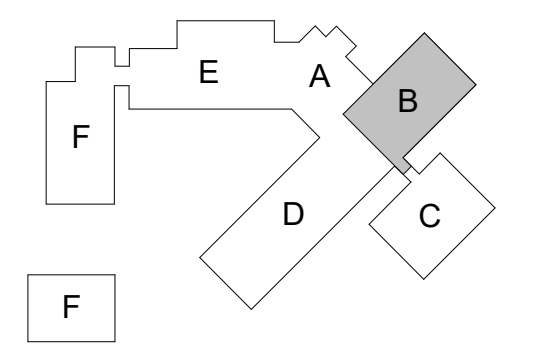
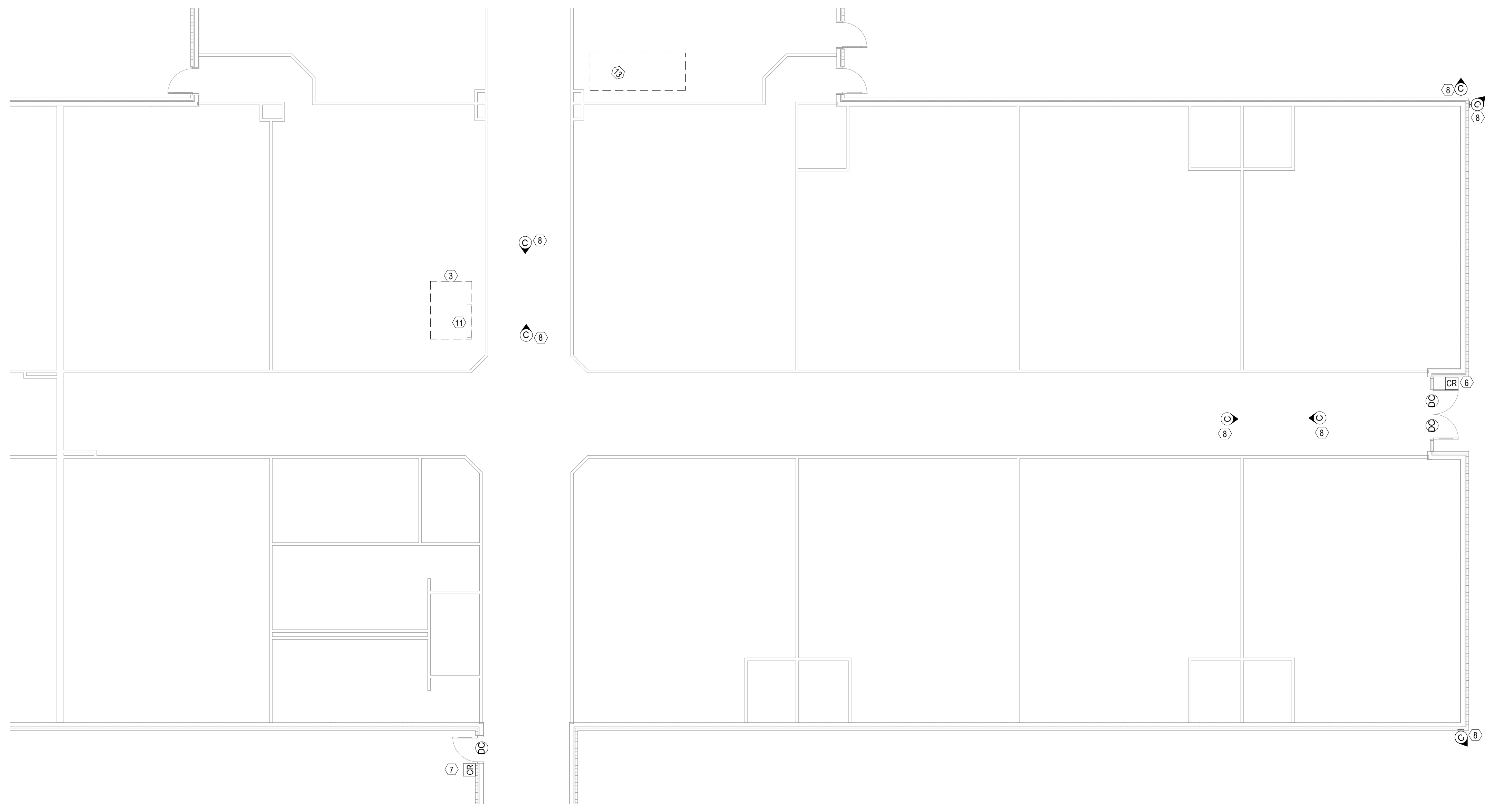
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ELEMENTARY SCHOOL KEYPLAN

① Technology - Elementary - Segment B
 1/8" = 1'-0"

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TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT B T101

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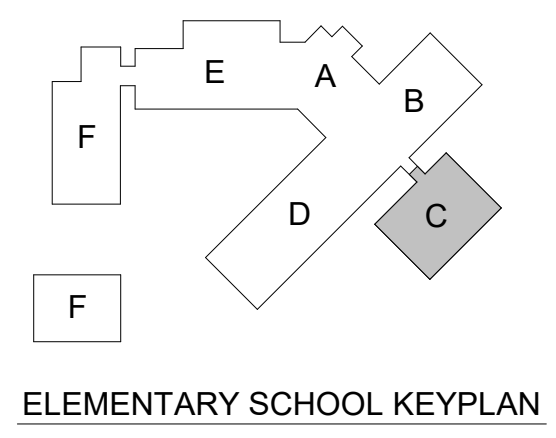
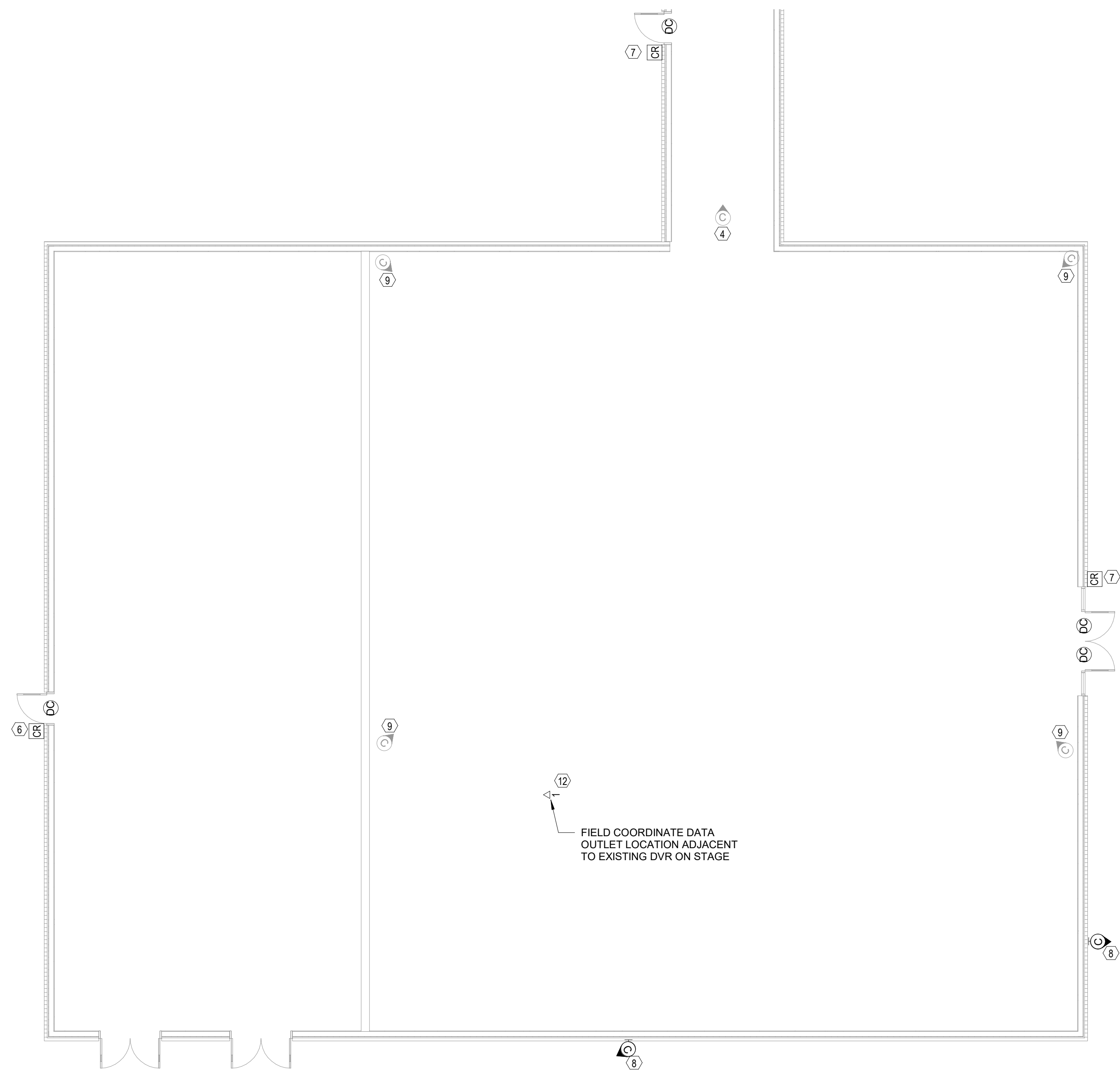
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TECHNOLOGY KEYNOTES	
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⑤	NEW IP CAMERA
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① Technology - Elementary - Segment C
 1/8" = 1'-0"

TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT C T102

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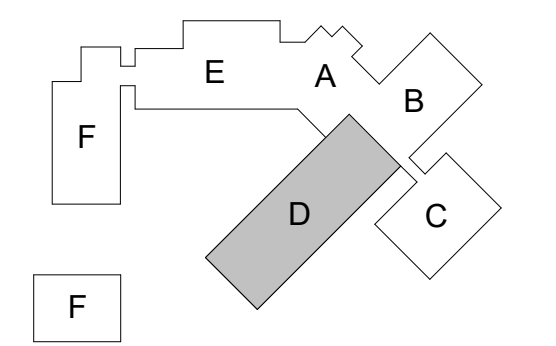
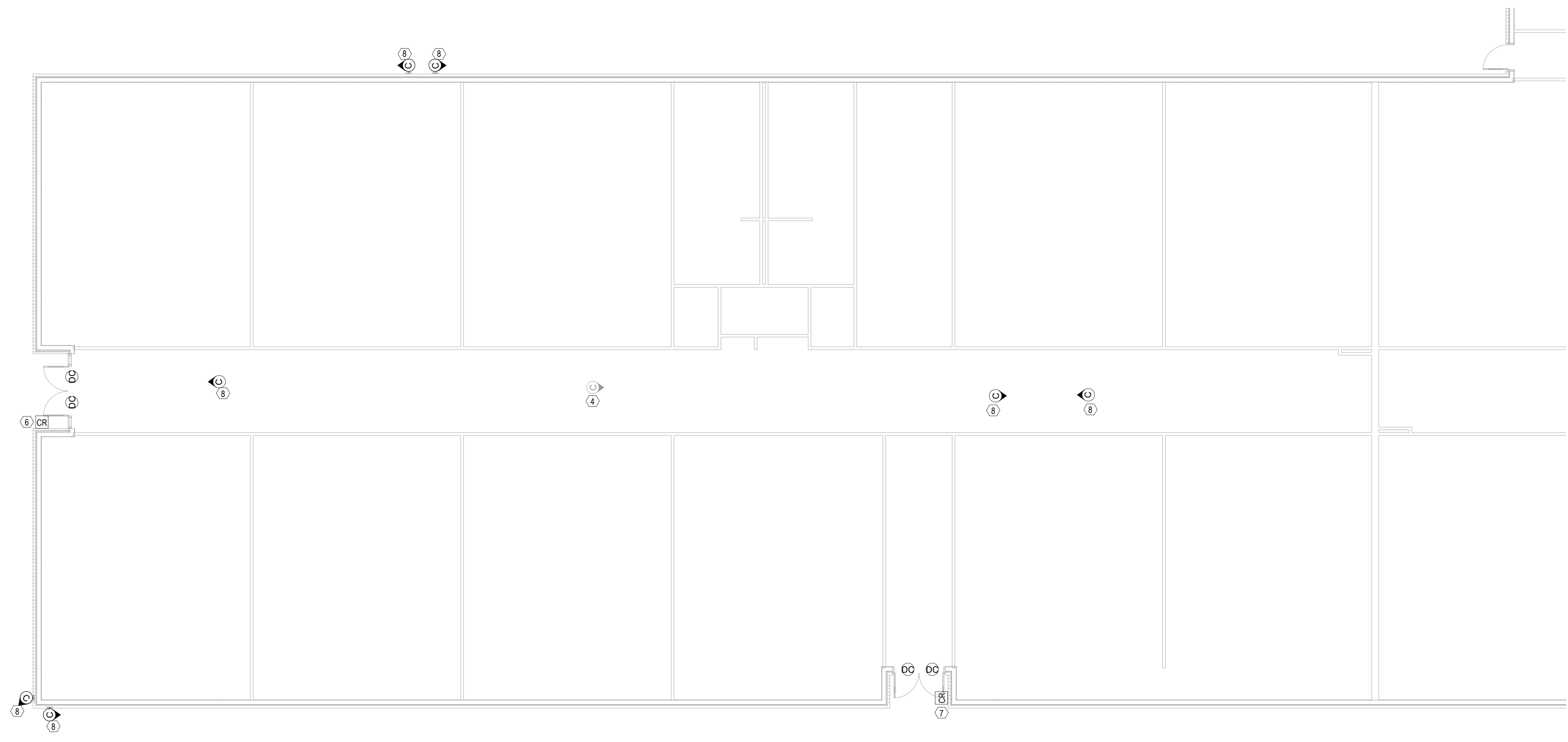
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① Technology - Elementary - Segment D
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TECHNOLOGY - ELEMENTARY SCHOOL - SEGMENT D T103

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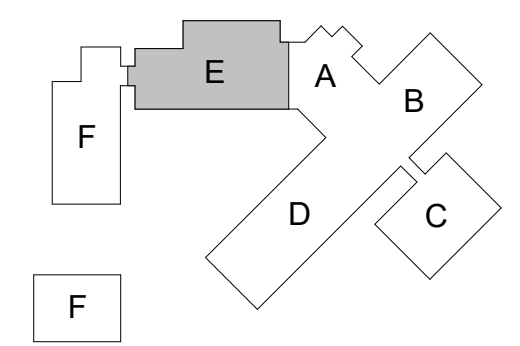
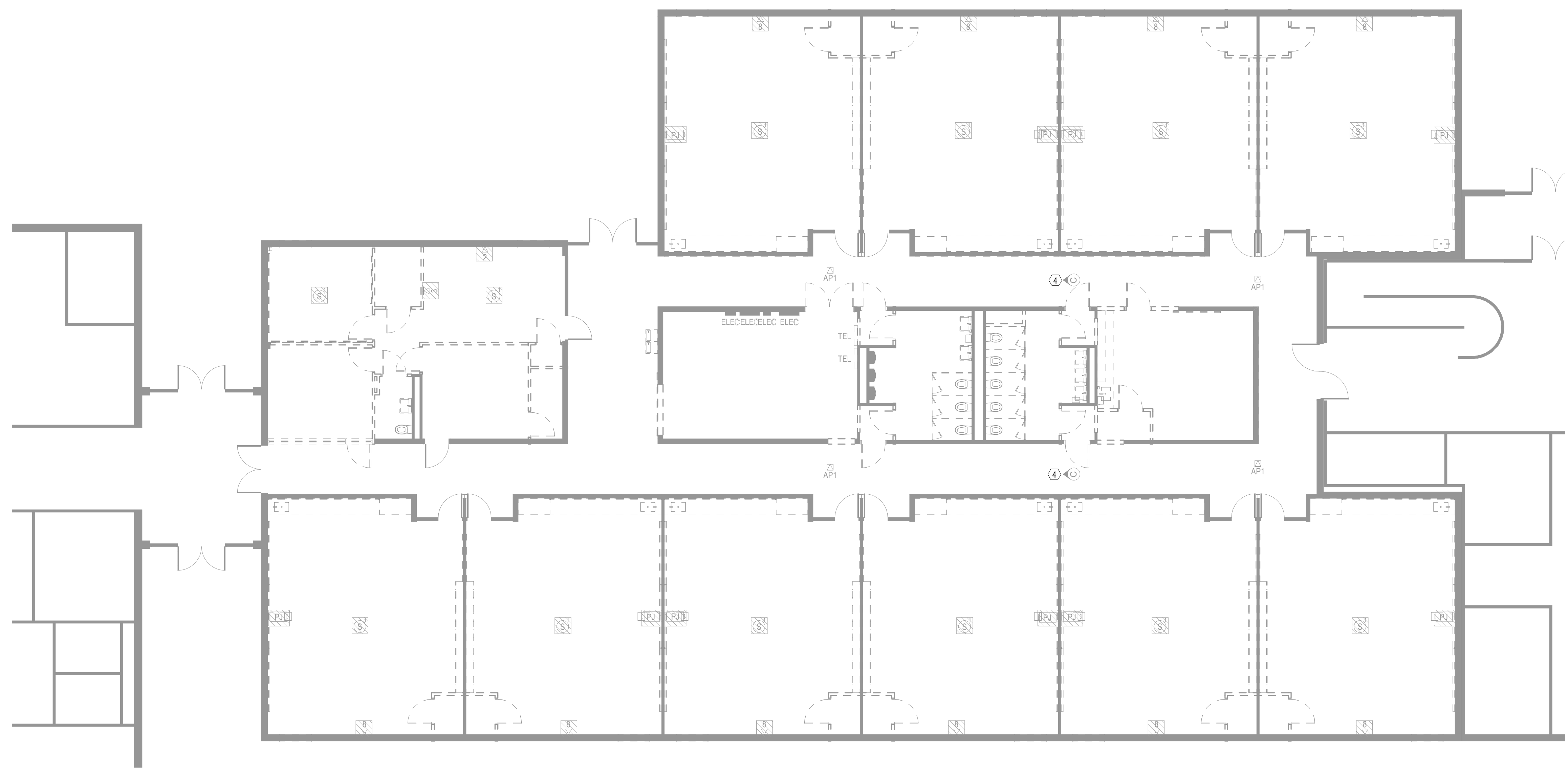
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TECHNOLOGY GENERAL NOTES - DEMOLITION FLOOR PLANS

1. CAMERAS AND WIRELESS ACCESS POINTS TO BE UNINSTALLED, STORED, AND REINSTALLED BY CONTRACTOR.
2. UNINSTALL AND TURN OVER THE FOLLOWING ITEMS TO THE OWNER: PROJECTORS, SCREENS, AND OTHER DEVICES/ENDPOINTS THAT COULD BE RE-USED. ONLY APPLIES WHERE DEMOLITION WORK IS INDICATED. IF IN DOUBT, VERIFY WITH OWNER PRIOR TO REMOVING SOMETHING.
3. DEMOLISH ALL SURFACE-MOUNT RACEWAY WHERE TECHNOLOGY OUTLETS AND DEVICES ARE DEMOLISHED.
4. WHERE DATA IS DEMOLISHED, CONTRACTOR SHALL DEMOLISH CABLE BACK TO PATCH PANEL.

TECHNOLOGY KEYNOTES

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Technology - Elementary - Segment E - Demo
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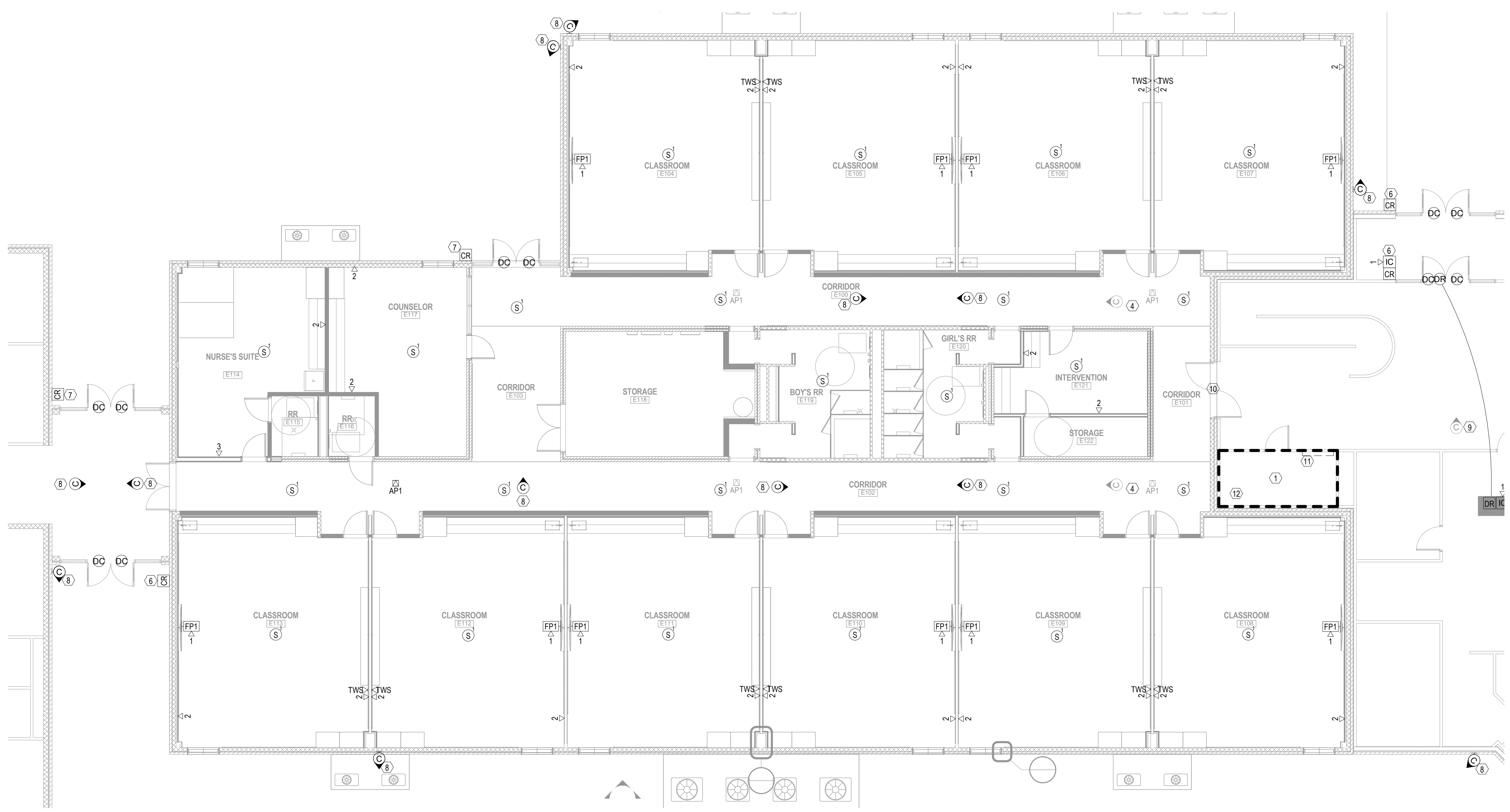
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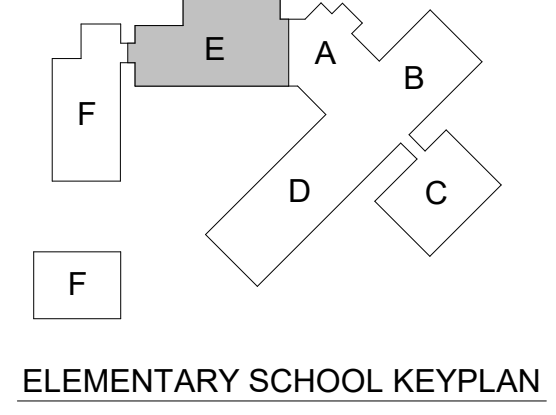
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① Technology - Elementary - Segment E
 1/8" = 1'-0"



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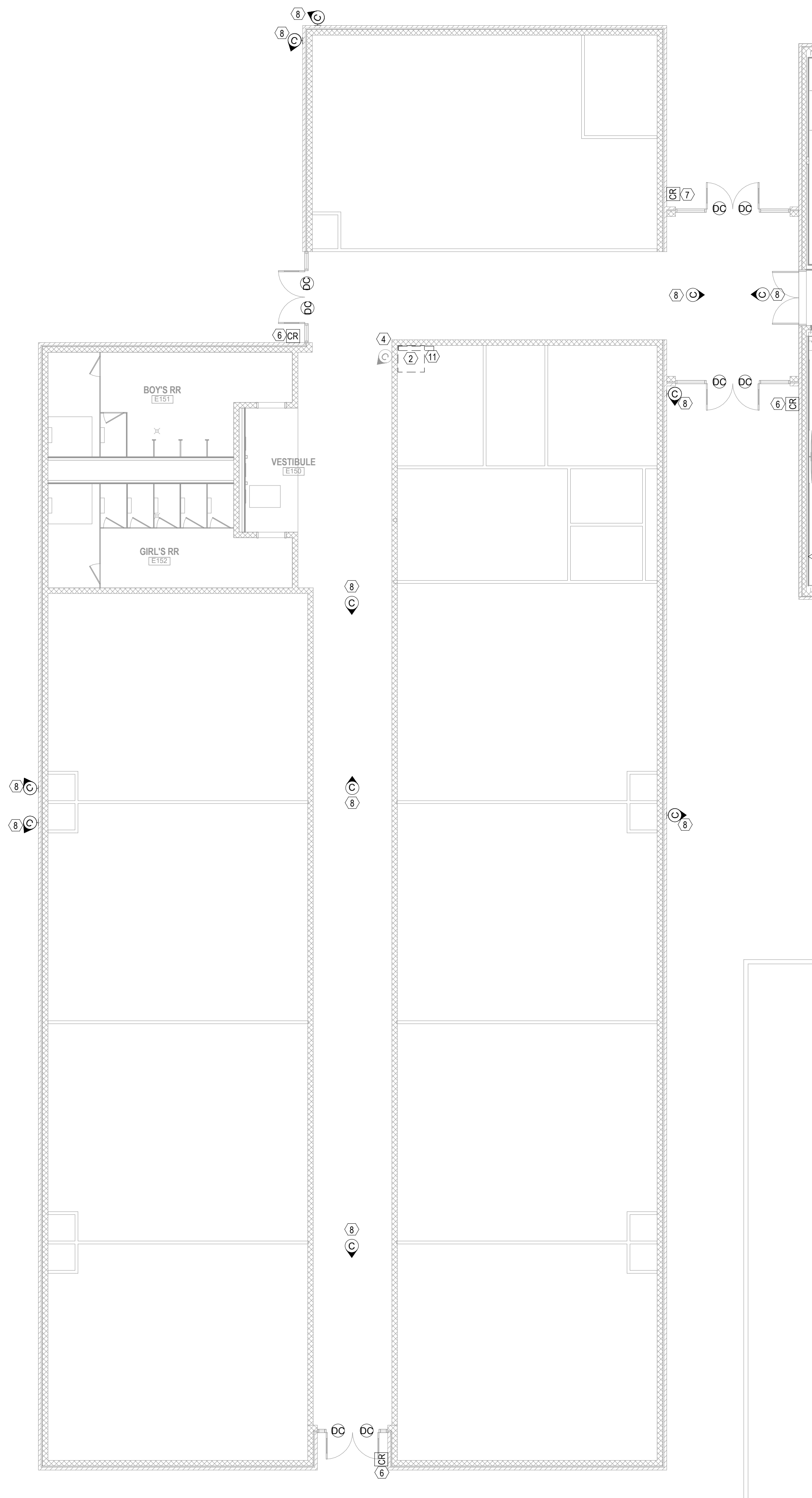
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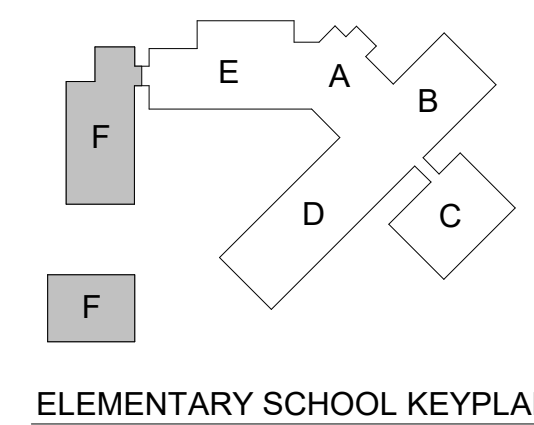
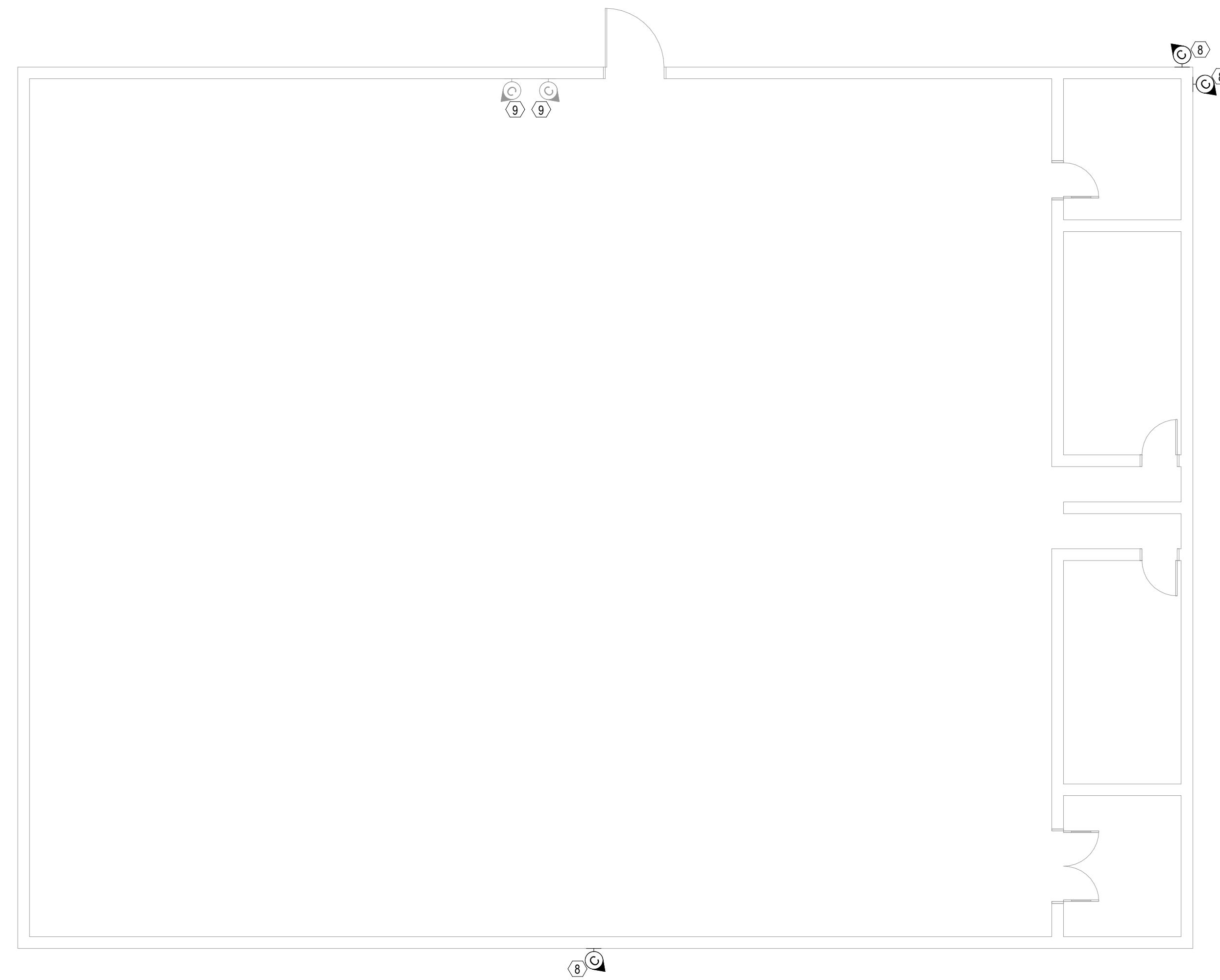
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1 Technology - Elementary - Segment F
1/8" = 1'-0"

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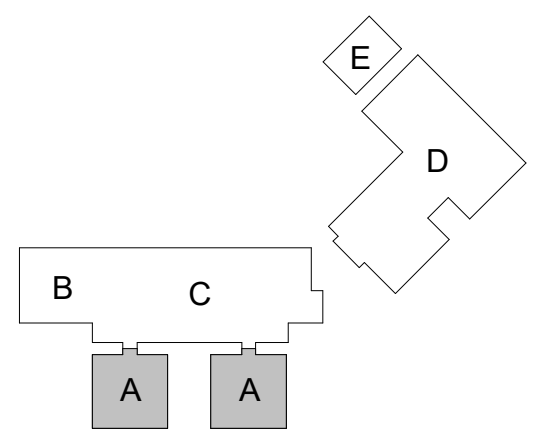
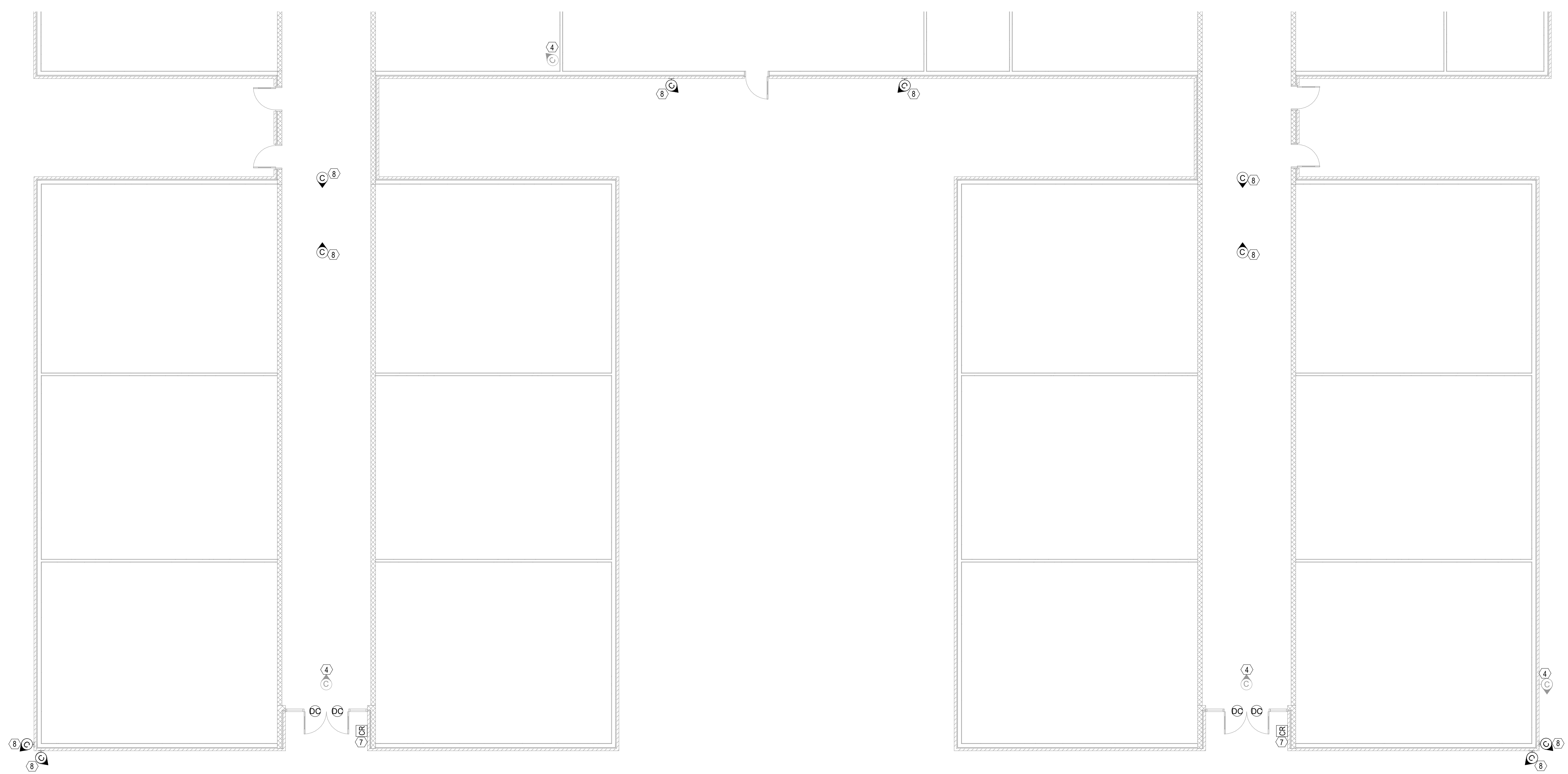
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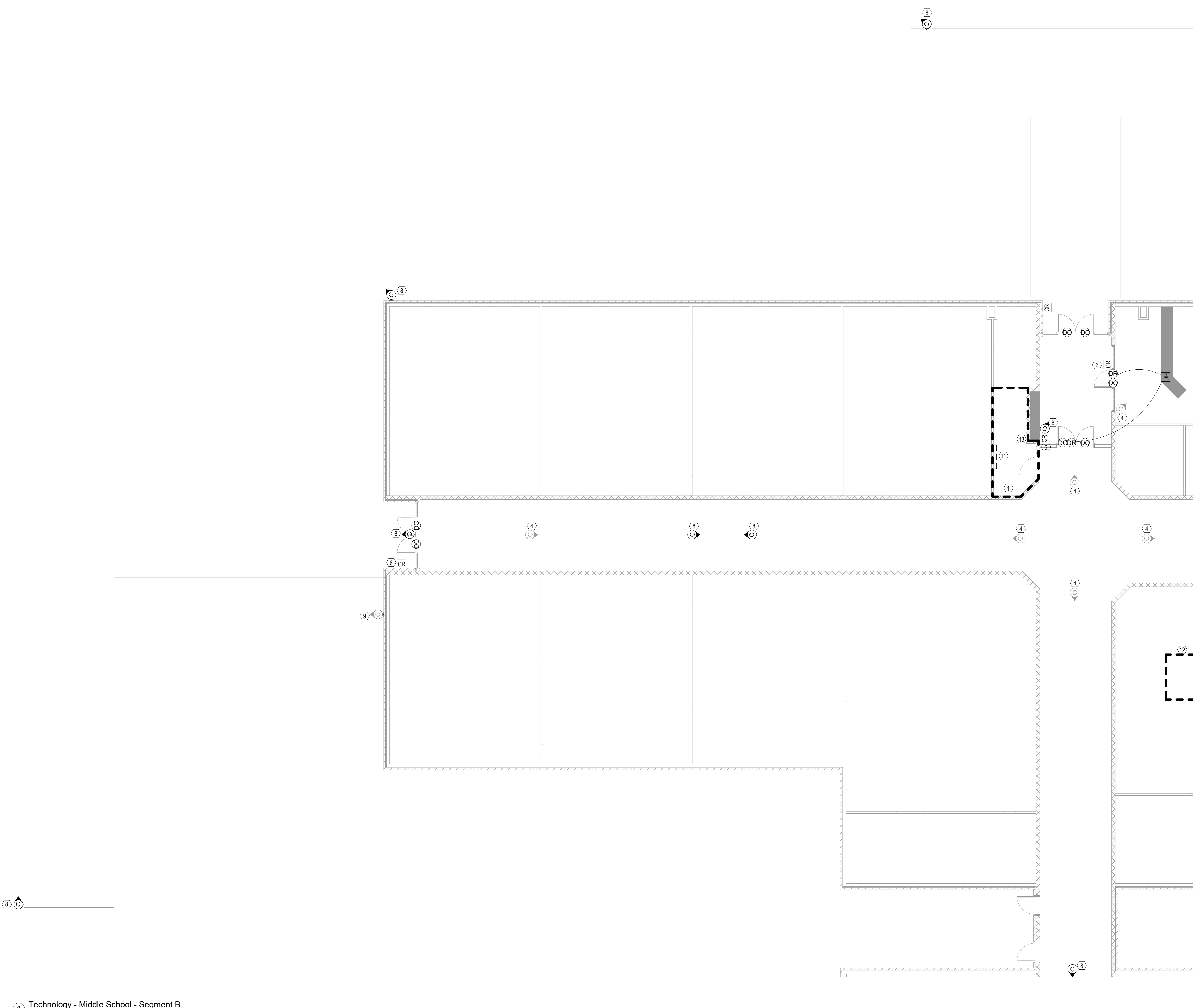
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① Technology - Middle School - Segment A
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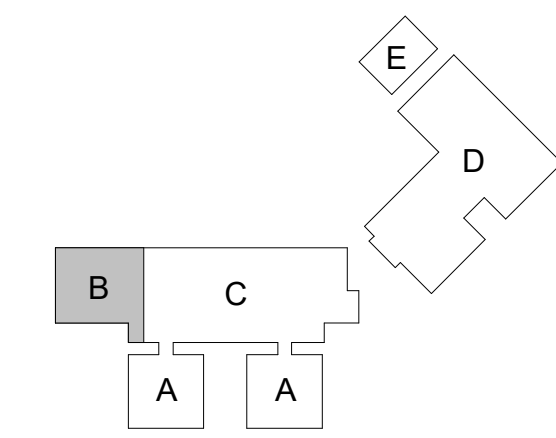
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① Technology - Middle School - Segment B
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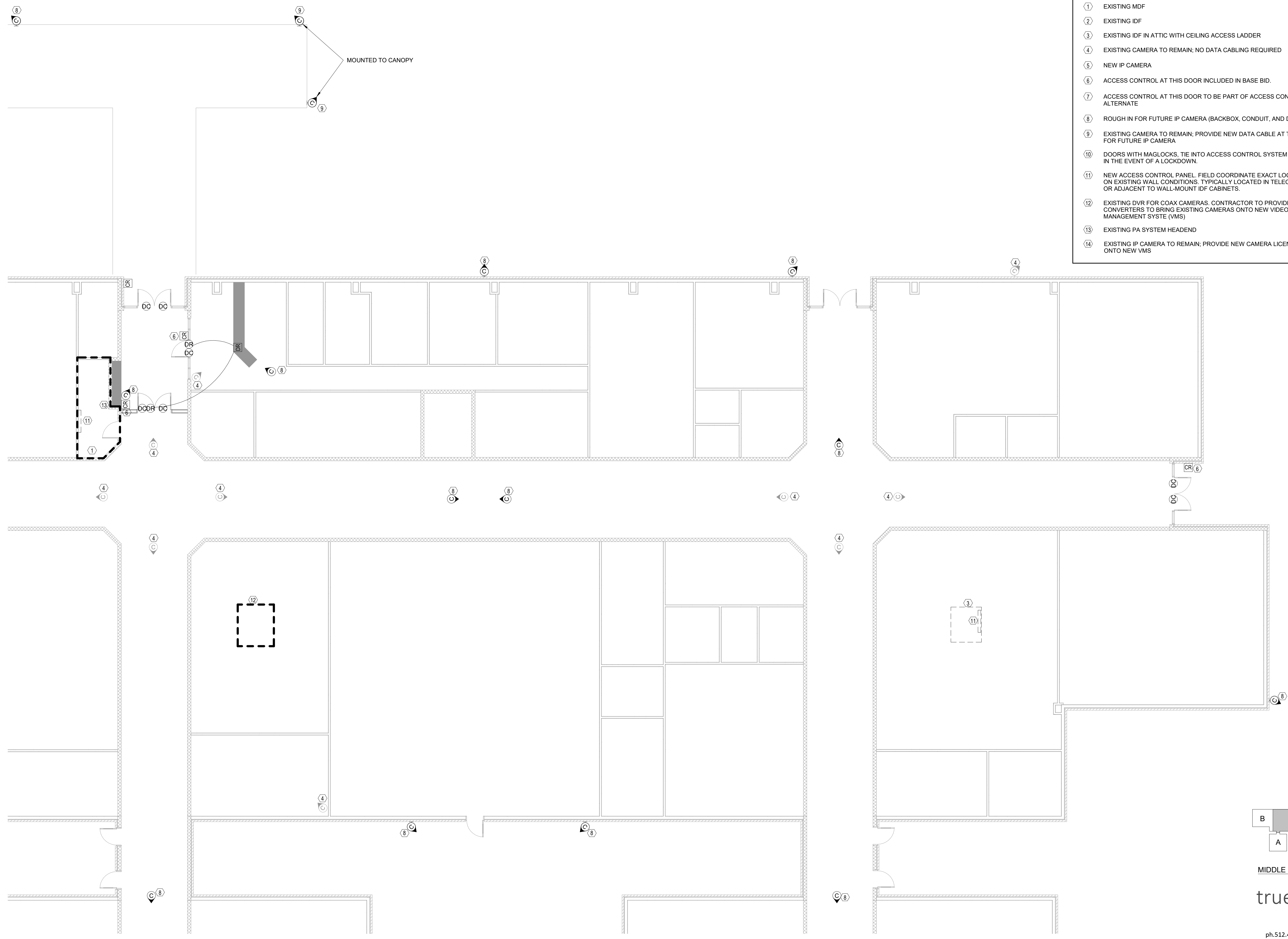
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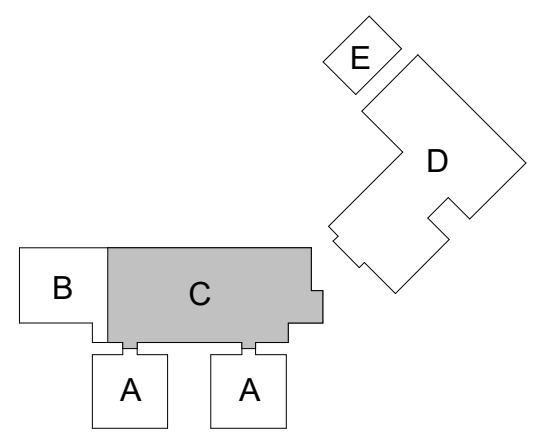
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13	EXISTING PA SYSTEM HEADEND
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1 Technology - Middle School - Segment C
 1/8" = 1'-0"



MIDDLE SCHOOL KEYPLAN
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TECHNOLOGY - MIDDLE SCHOOL - SEGMENT C T202

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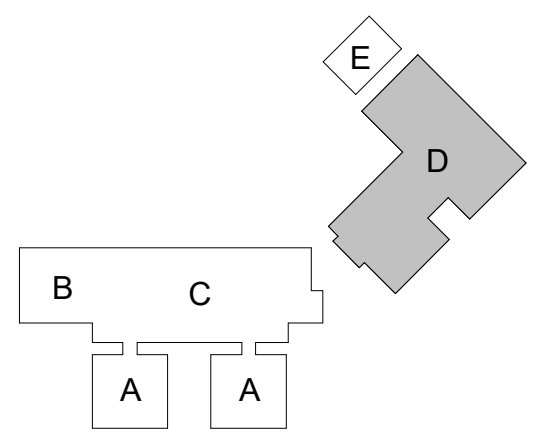
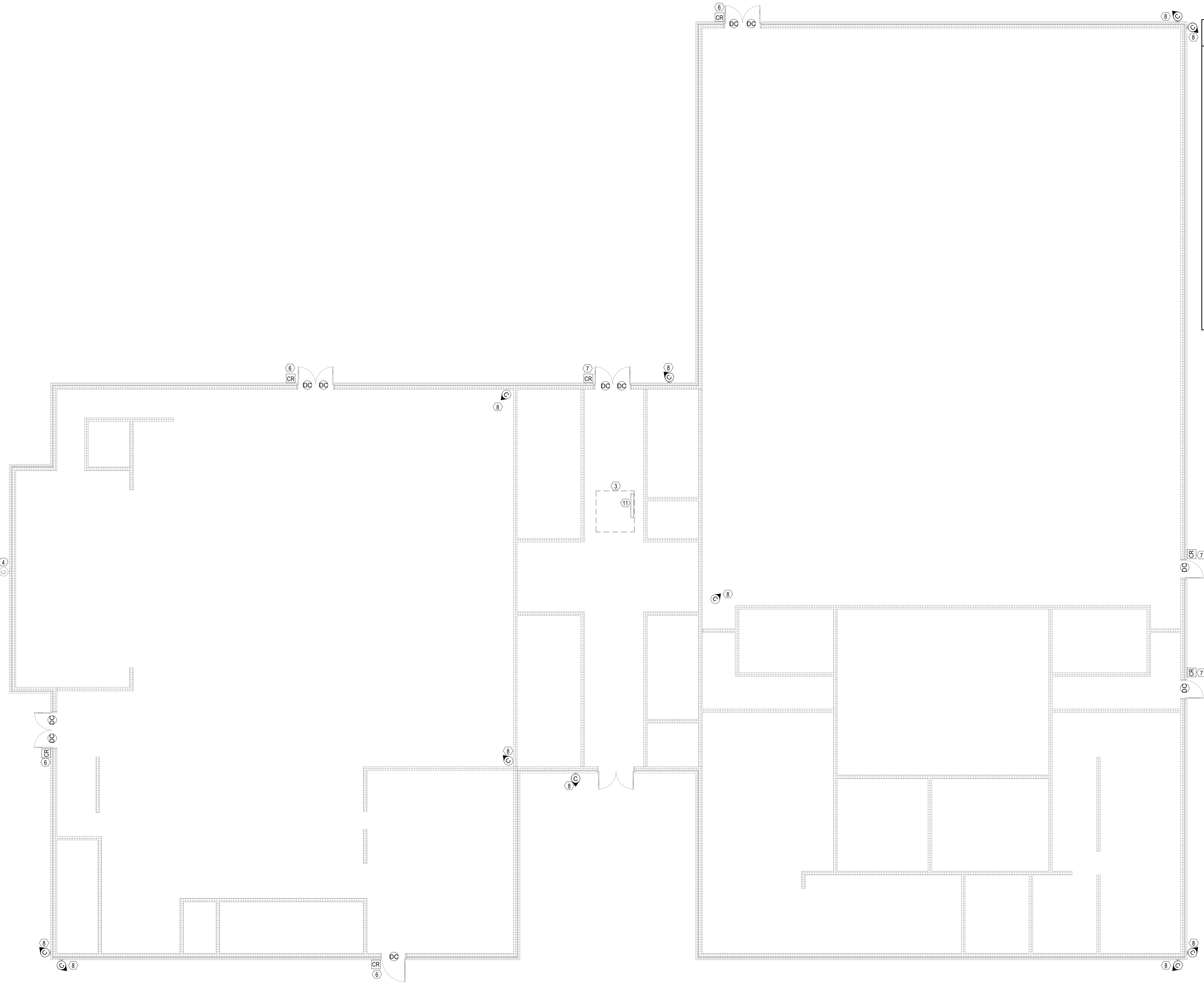
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TECHNOLOGY KEYNOTES	
①	EXISTING MDF
②	EXISTING IDF
③	EXISTING IDF IN ATTIC WITH CEILING ACCESS LADDER
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① Technology - Middle School - Segment D
 1/8" = 1'-0"

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TECHNOLOGY - MIDDLE SCHOOL - SEGMENT D T203

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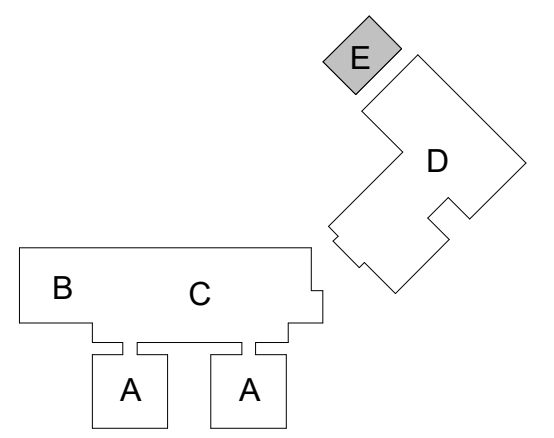
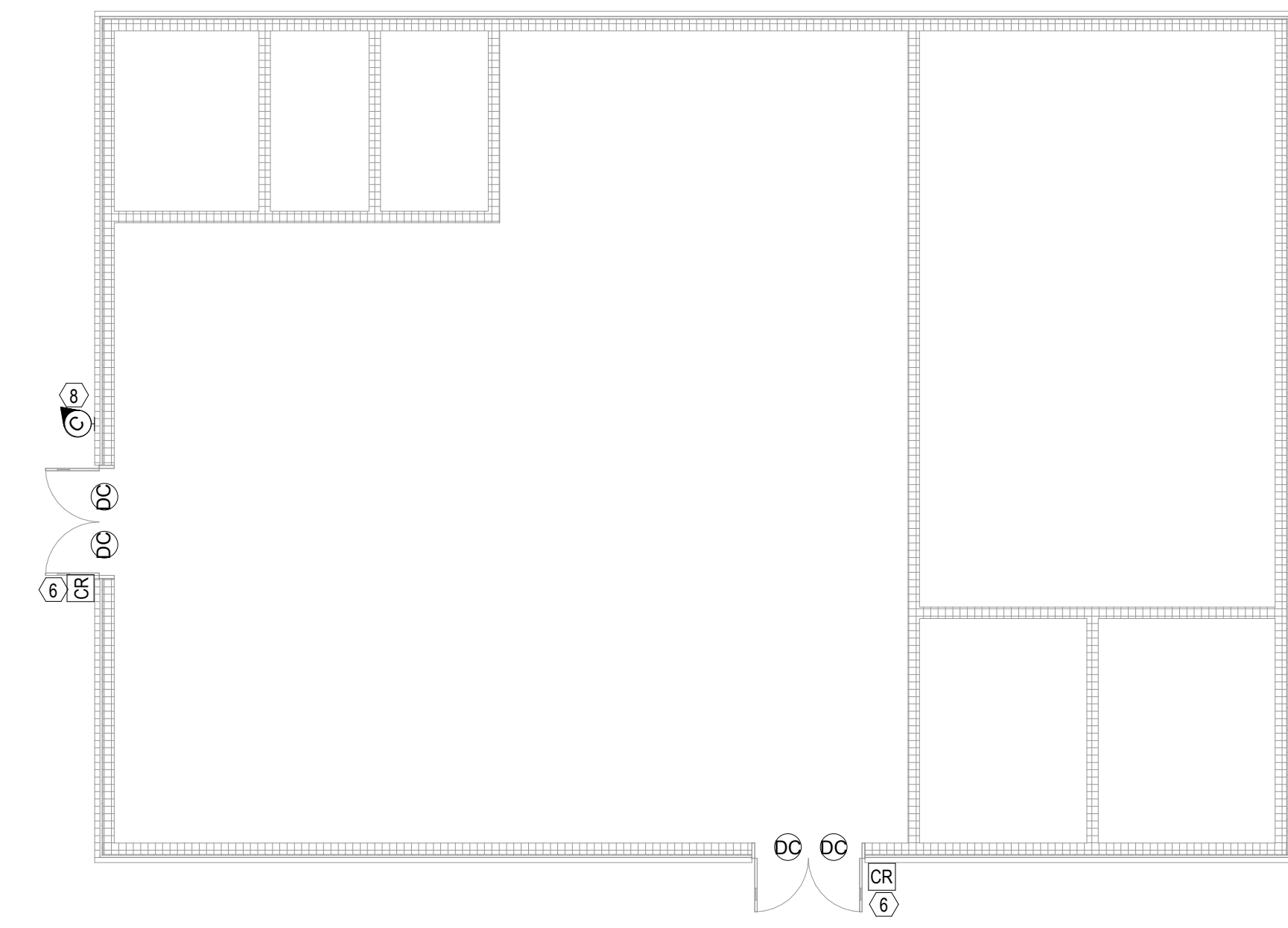
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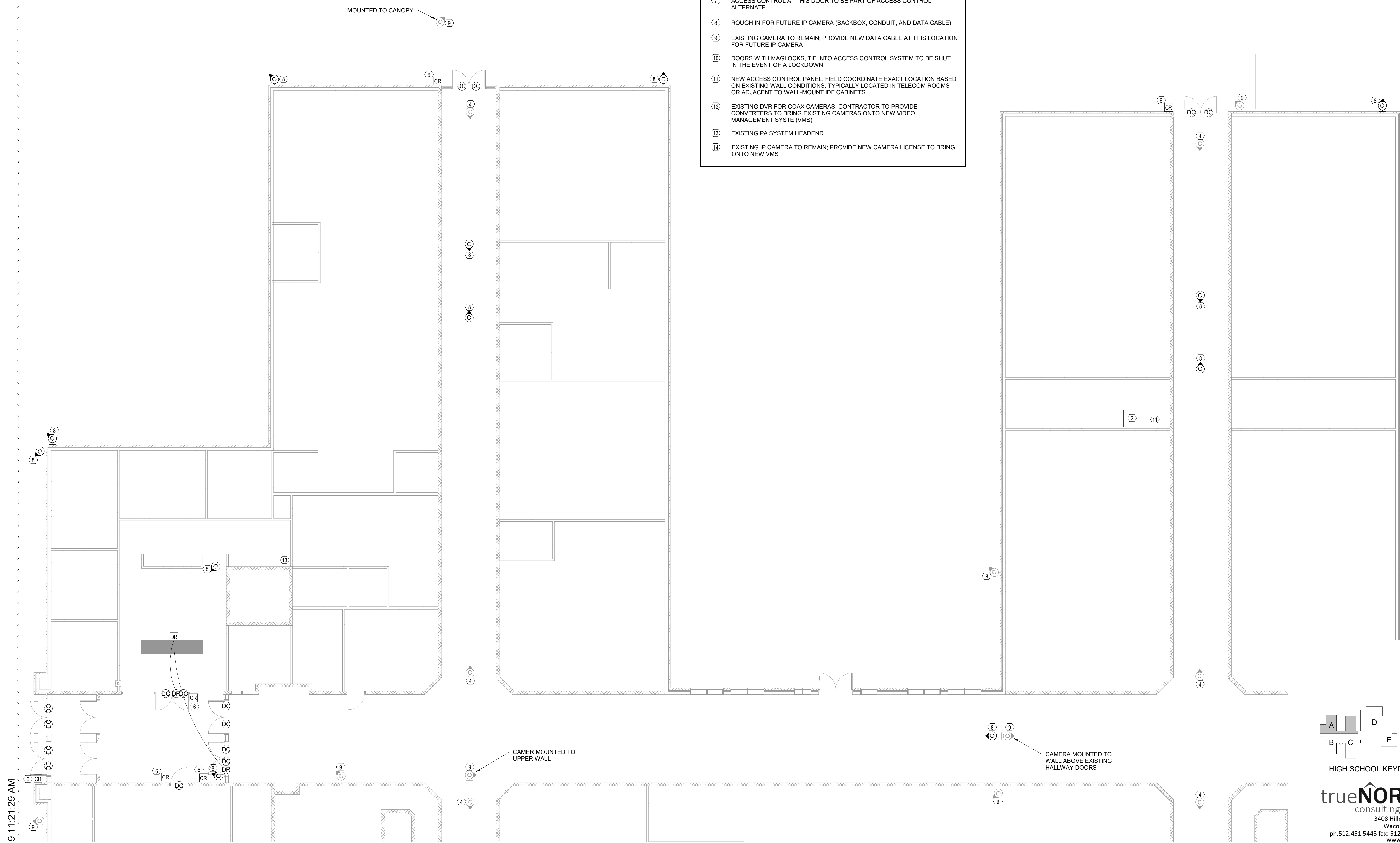
① Technology - Middle School - Segment E
1/8" = 1'-0"

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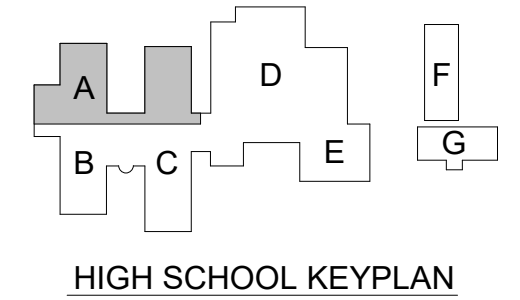
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① Technology - High School - Segment A
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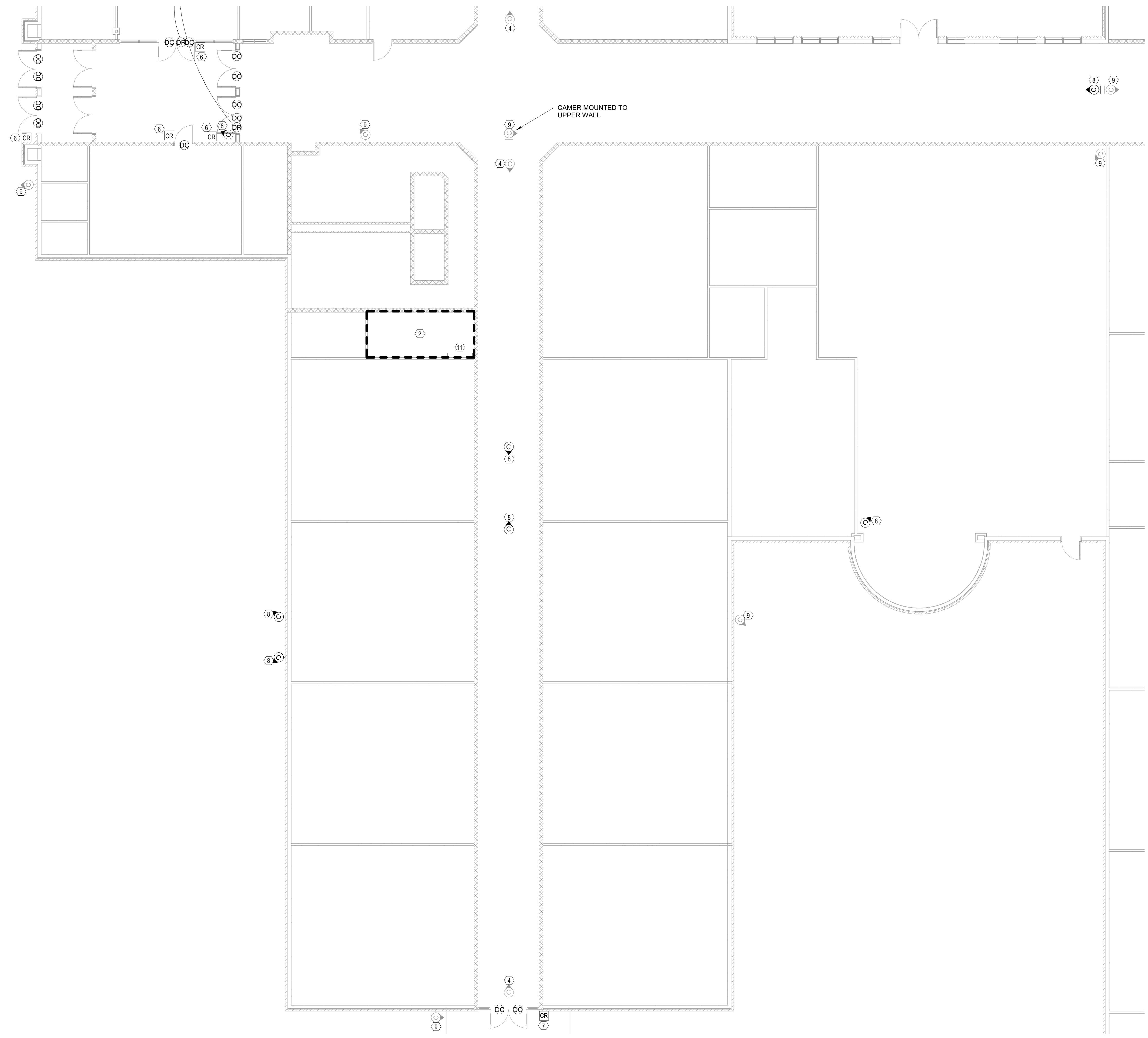
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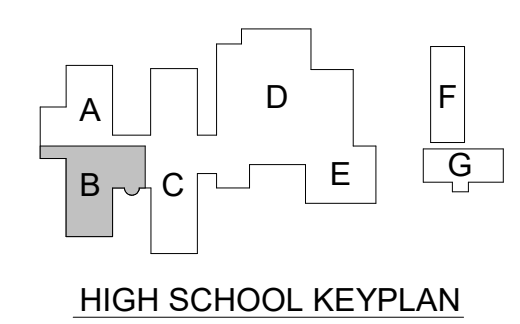
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① Technology - High School - Segment B
 1/8" = 1'-0"

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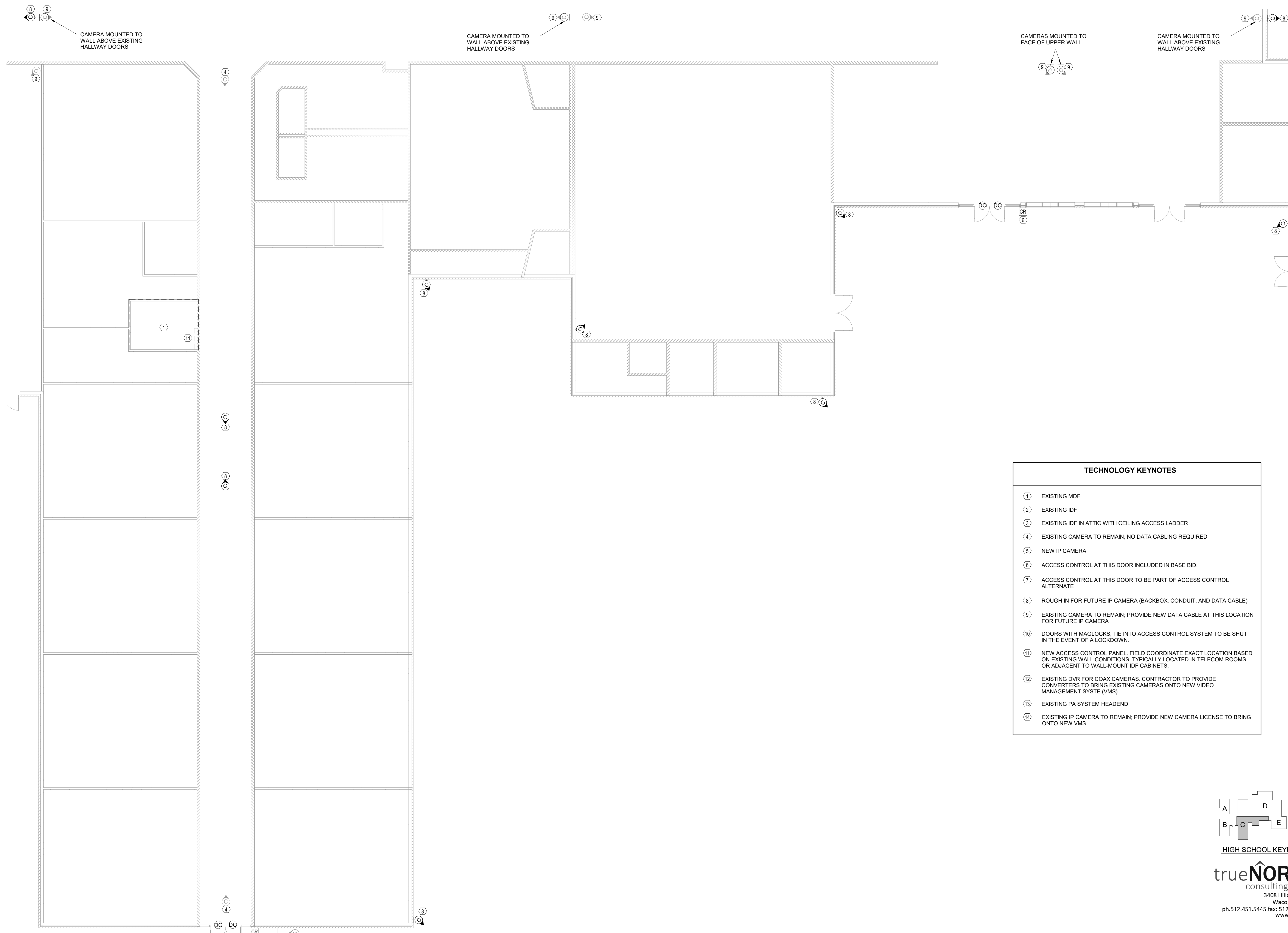


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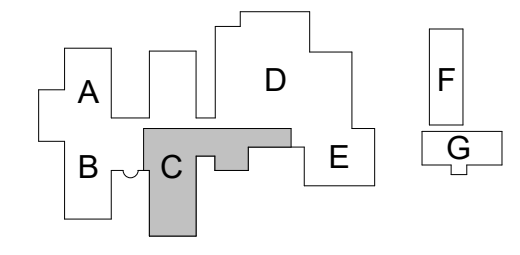
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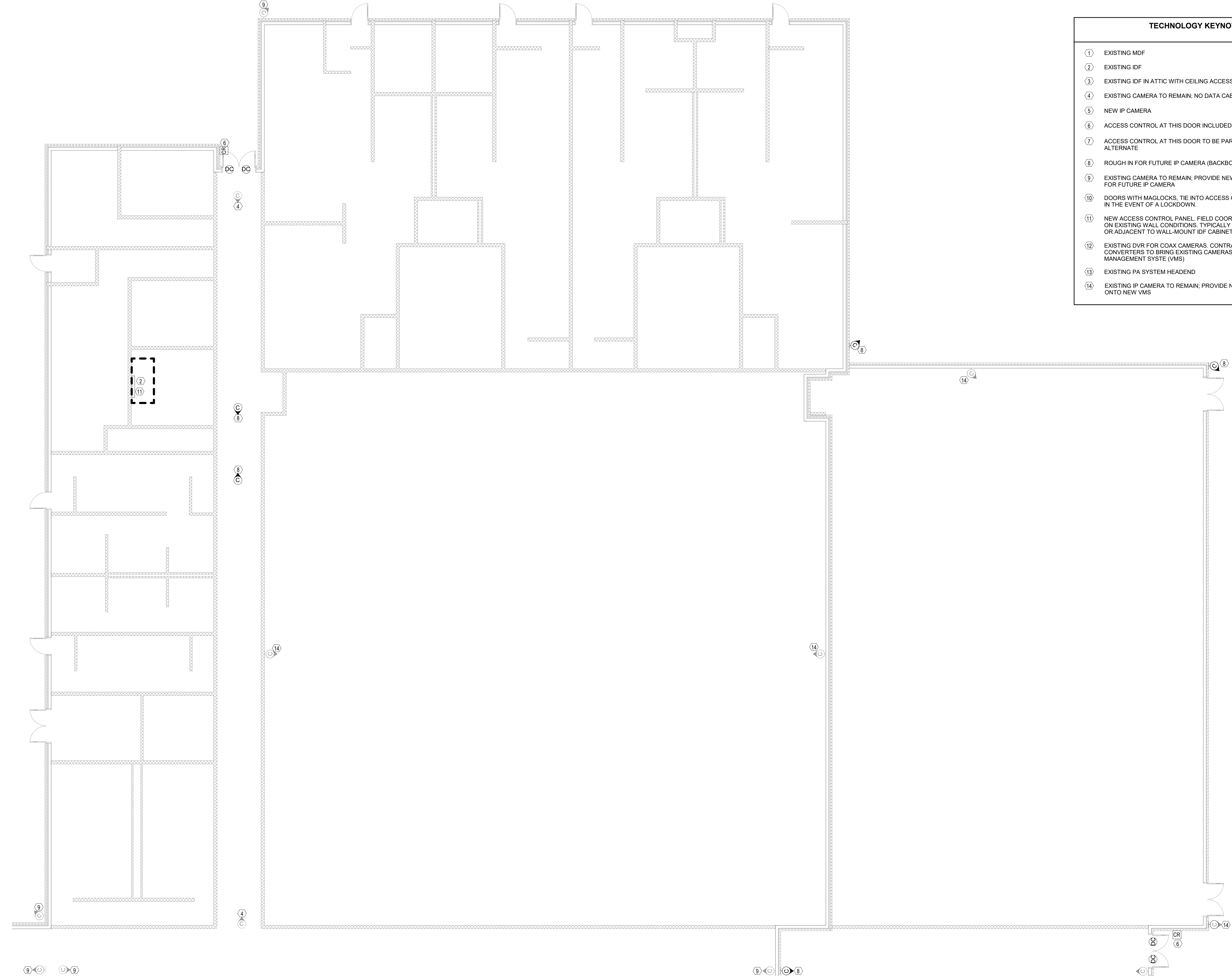
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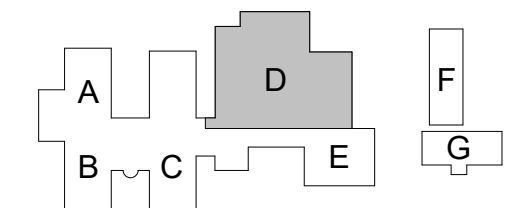
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① Technology - High School - Segment D
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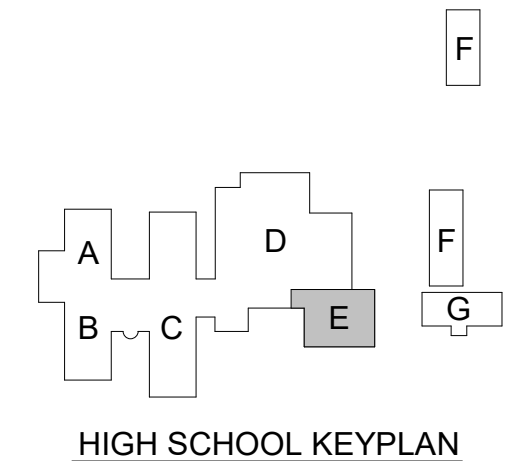
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① Technology - High School - Segment E
1/8" = 1'-0"



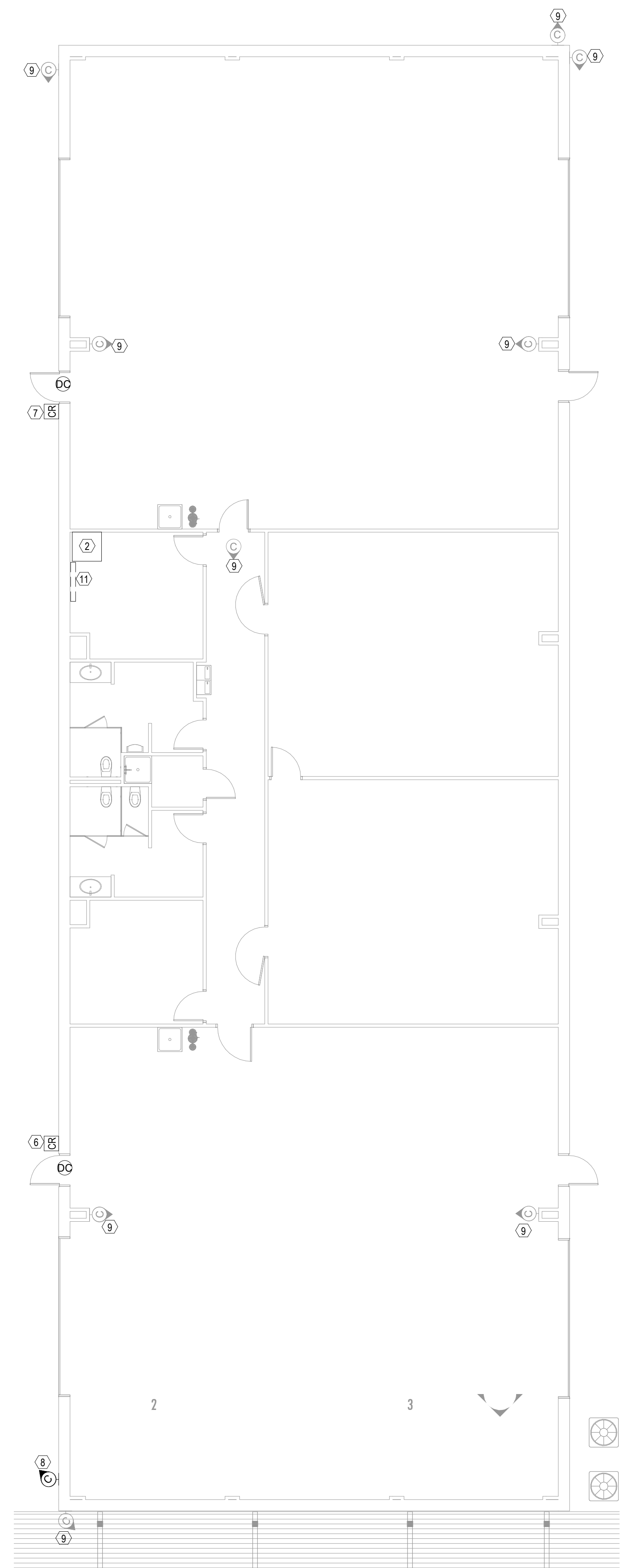
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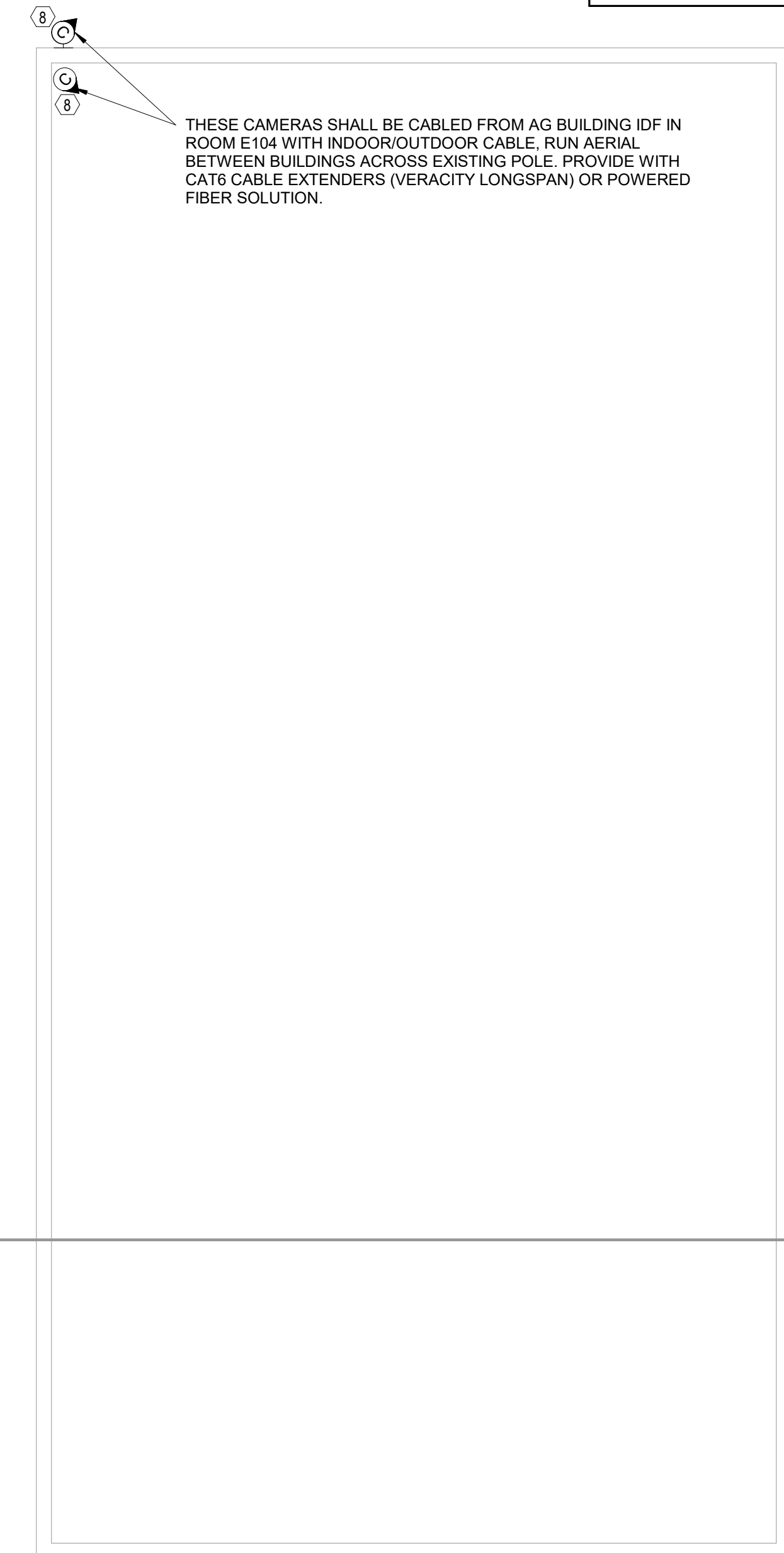
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② Technology - High School - Segment F
1/8" = 1'-0"

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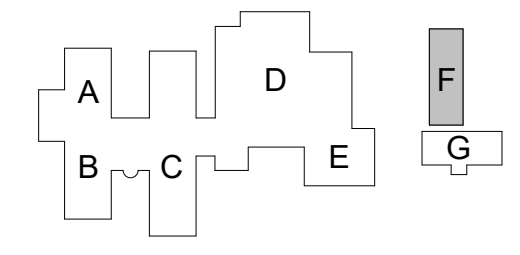
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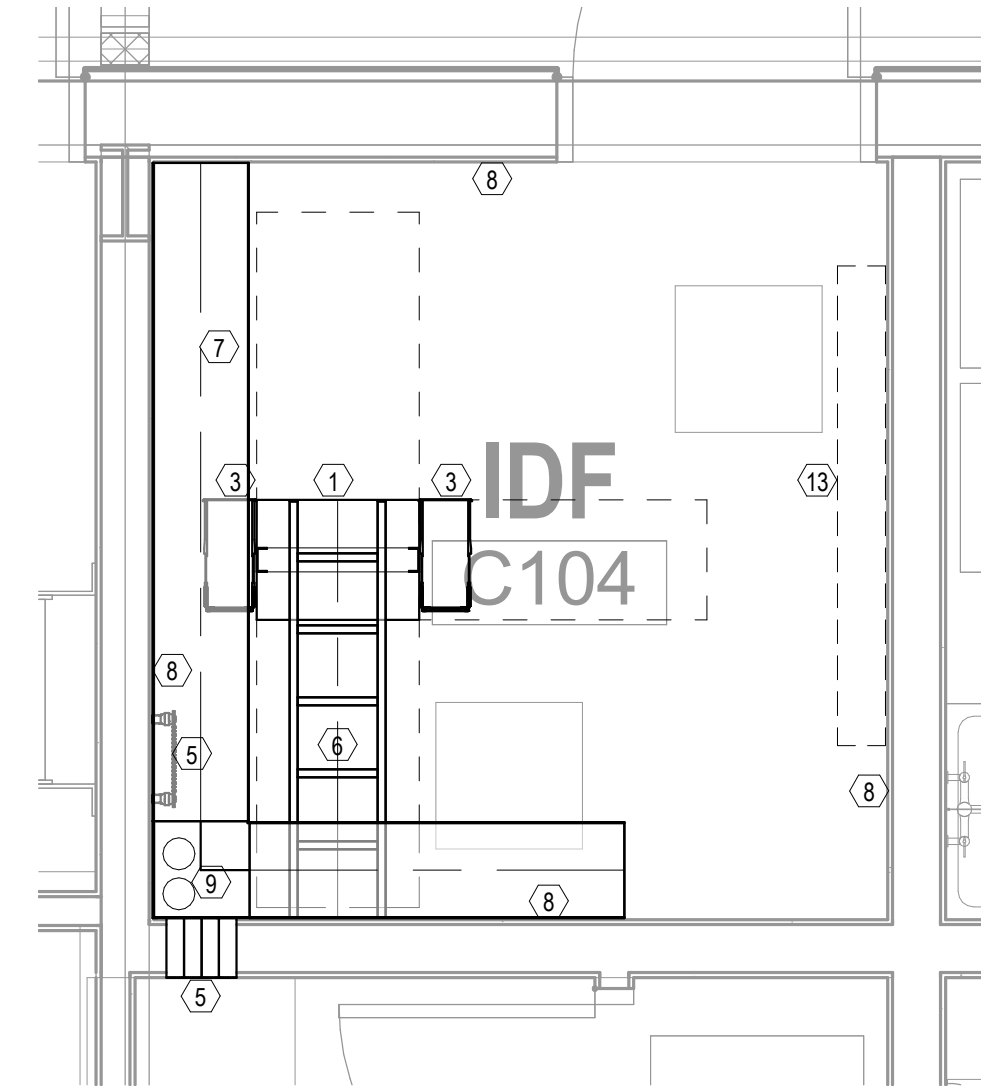
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Technology - Career Center Floor Plan - IDF
 110
 1/2" = 1'-0"

ENLARGEMENT KEYNOTES

- ① 2-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, FIRST RACK SHALL BE 6" FROM WALL, IF VERTICAL WIRE PRESENT BETWEEN RACK AND WALL THEN VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
- ② NOT USED
- ③ 6" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
- ④ NOT USED
- ⑤ GROUND BUS BAR, MOUNTED 6" AFF, ELECTRON PLATED AND PREDRILLED TO ACCEPT STANDARD TWO-HOLE LUGS.
- ⑥ 18"x24" LADDER RACK SECURED TO TOP OF RACK WITH LADDER RACK MOUNTING PLATE AND BOLTED TO WALL, WITH WATER FALLS INTO VERTICAL WIRE MANAGERS (TYPICAL)
- ⑦ 12"x4" CABLE TRAY (BASKET STYLE) WITH 6" CLEARANCE FROM WALL (TYPICAL)
- ⑧ 3/4" FIRED RATED PLYWOOD SECURED TO WALL AT 22" AFF. IF THE PLYWOOD IS PAINTED, THE PAINT SHALL BE FIRE RETARDANT PAINT ON BOTH SIDES AND THE RATING STAMP ON THE PLYWOOD SHALL BE EXPOSED.
- ⑨ 1/2" 4" CONDUITS STUBBED UP 24" AFF FROM AG BUILDING IDF. REFER TO SHEET T030.
- ⑩ NOT USED
- ⑪ FIRESTOP SLEEVES, STI EZPATH OR HILTI SPEED SLEEVES.
- ⑫ SPACE RESERVED FOR TELEPHONE TERMINAL BLOCKS OR FRAME.
- ⑬ SPACE RESERVED FOR SECURITY PANELS.



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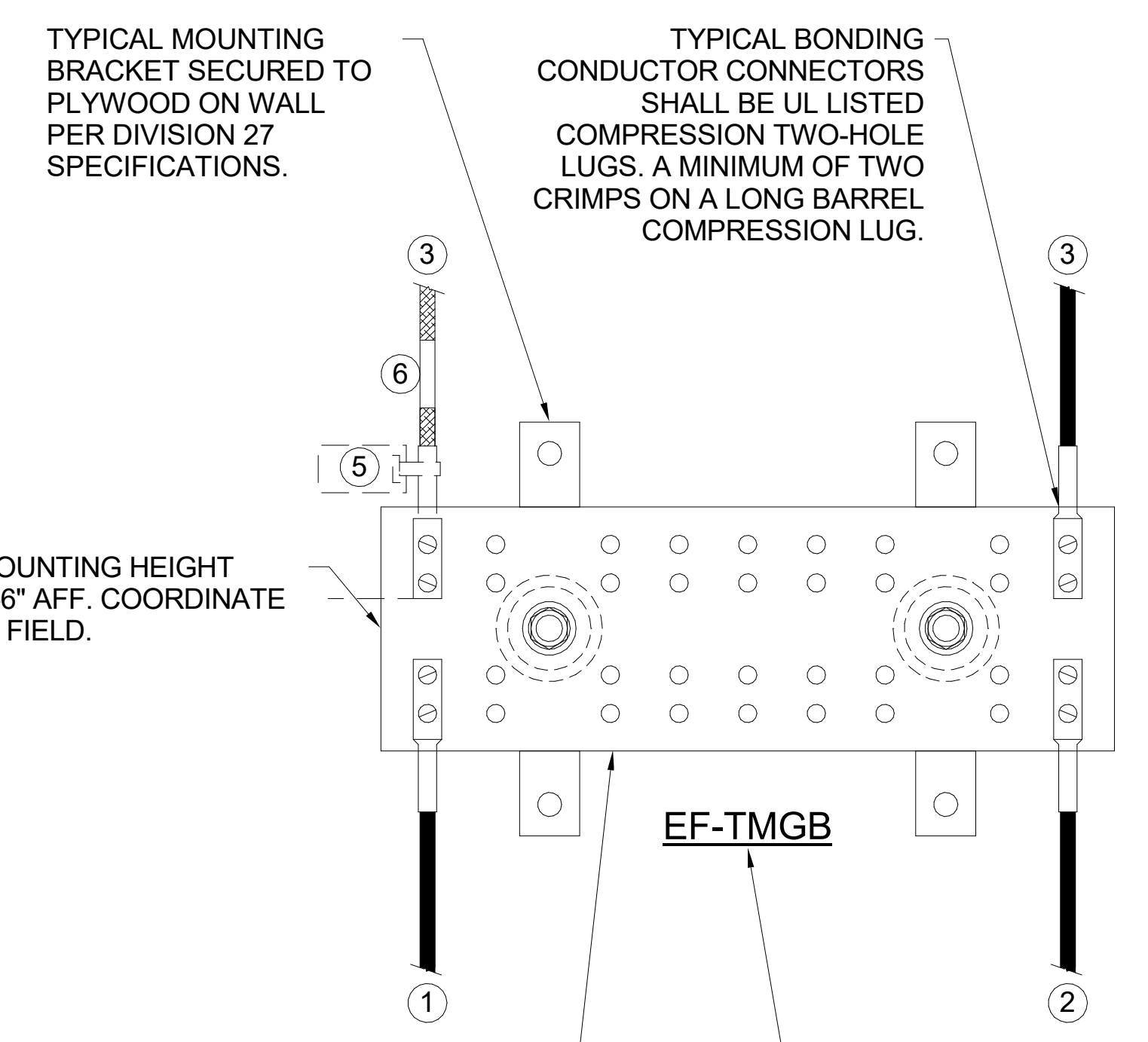
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Bond 2018
 Brady, Texas

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COPPER UL LISTED TMGB MINIMUM 1/4" H X 4" W X 20" LENGTH (PER DIVISION 27 SPECIFICATIONS) WITH TWO MOUNTING BRACKETS AND INSULATORS. ACCEPTABLE MANUFACTURERS: CHATSWORTH, ERITECH, HARGER, HOMACO & PANDUIT. UTILIZE BUSBAR MANUFACTURER FOR COMPRESSION TWO-HOLE LUGS.

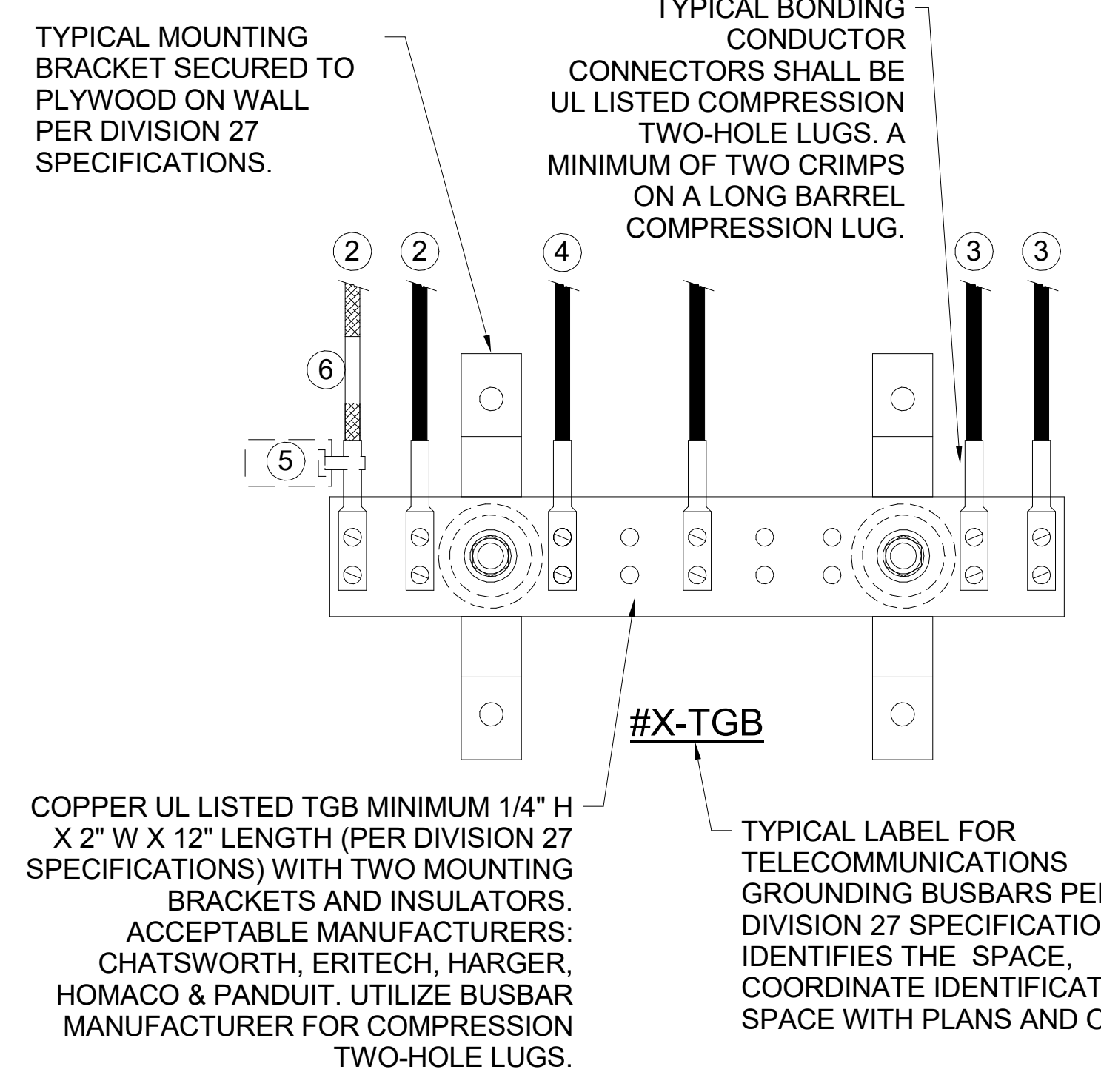
TYPICAL LABEL FOR TELECOMMUNICATIONS MAIN GROUNDING BUSBARS PER DIVISION 27 SPECIFICATIONS. "EF" IDENTIFIES THE ENTRANCE FACILITY SPACE. COORDINATE IDENTIFICATION OF SPACE WITH OWNER.

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0

1 GROUNDING AND BONDING DETAIL
SCALE: NTS

GROUNDING & BONDING GENERAL NOTES

- ELECTRICAL CONTRACTOR RESPONSIBILITY - TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB), TELECOMMUNICATION GROUNDING BUSBAR(S) (TGBS), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE, BUILDING STRUCTURAL STEEL, AND BONDING OF ALL TGBS TO THE TMGB SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL GROUNDING OF OF EQUIPMENT, RACKS, CABINETS, AND DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 27 TECHNOLOGY CONTRACTOR.
- REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-B) IN PATHWAY.
- FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
- BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED. WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSII/AIEA-606-B.
- BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-B) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
- DIVISION 27 CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
 - THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
 - THE TGB AND THE NEAREST GROUNDING ELECTRODE.
 - EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT.

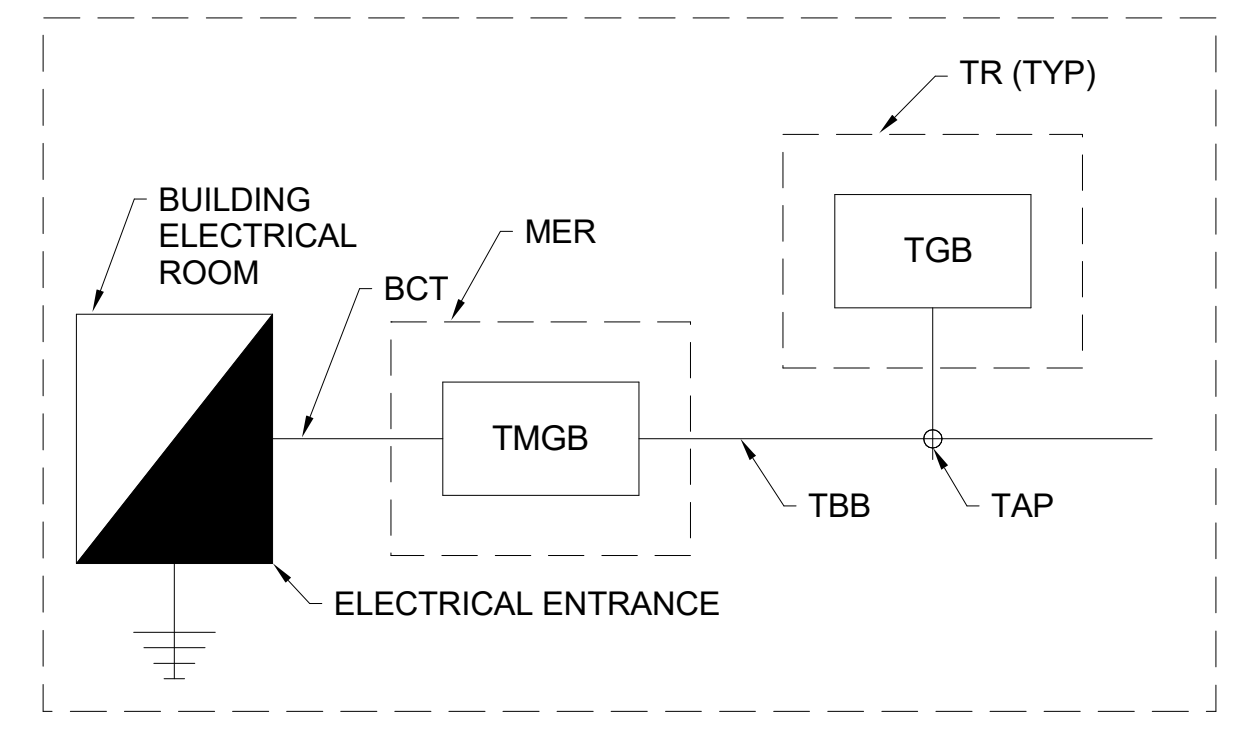


COPPER UL LISTED TGB MINIMUM 1/4" H X 2" W X 12" LENGTH (PER DIVISION 27 SPECIFICATIONS) WITH TWO MOUNTING BRACKETS AND INSULATORS. ACCEPTABLE MANUFACTURERS: CHATSWORTH, ERITECH, HARGER, HOMACO & PANDUIT. UTILIZE BUSBAR MANUFACTURER FOR COMPRESSION TWO-HOLE LUGS.

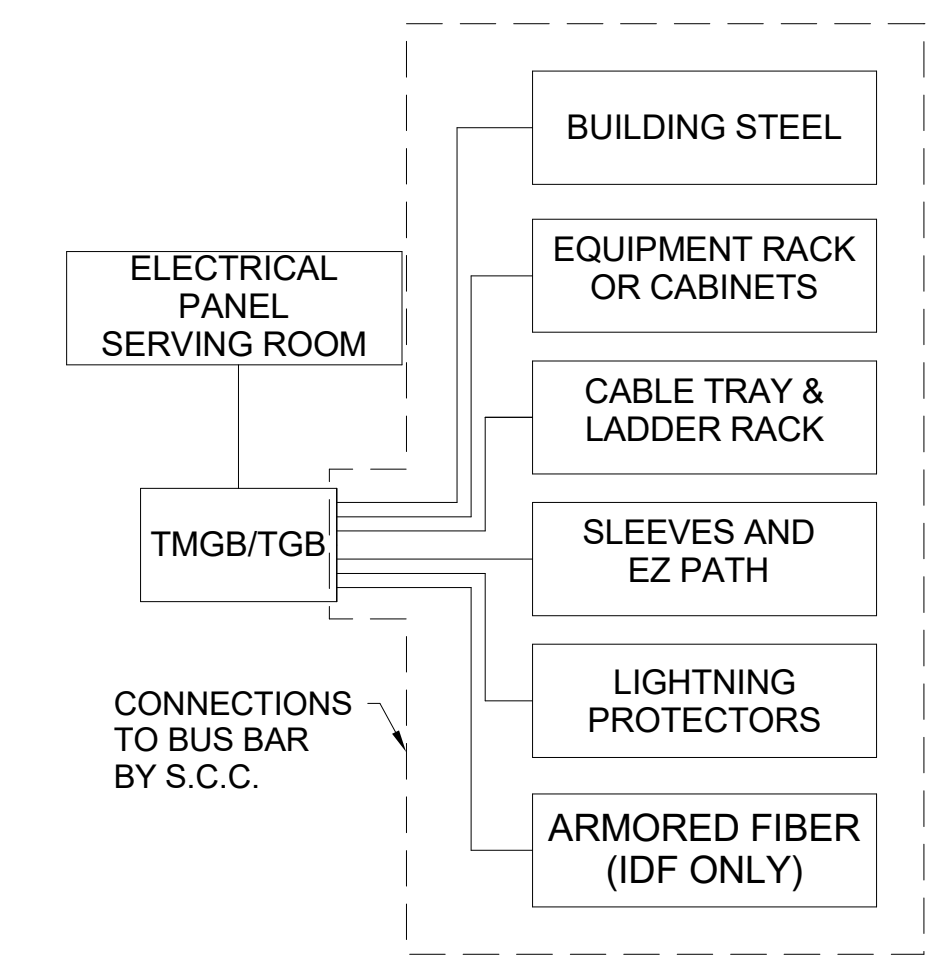
TYPICAL LABEL FOR TELECOMMUNICATIONS GROUNDING BUSBARS PER DIVISION 27 SPECIFICATIONS. "X" IDENTIFIES THE SPACE, COORDINATE IDENTIFICATION OF SPACE WITH PLANS AND OWNER.

GROUNDING & BONDING NOTES

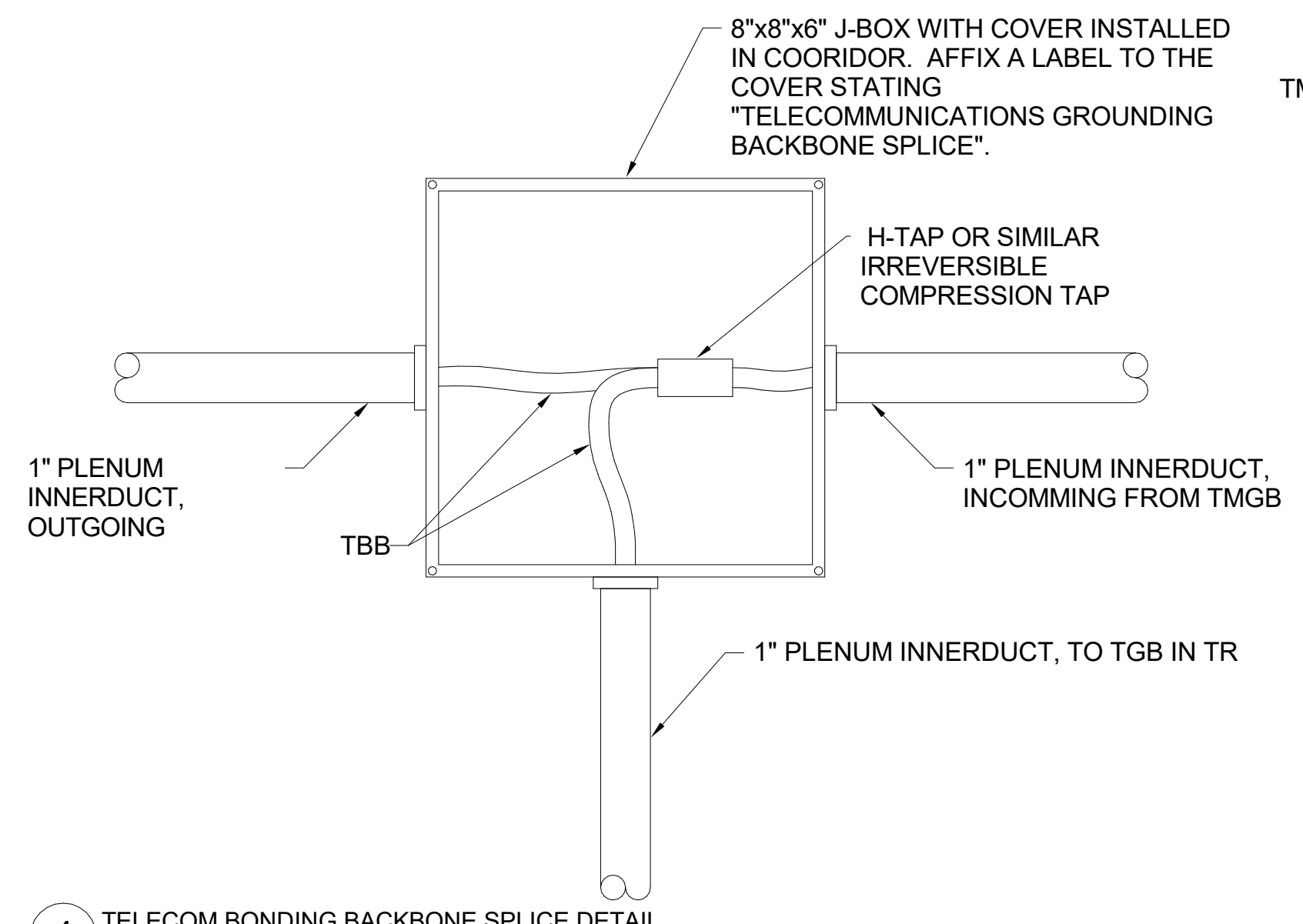
- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING MAIN ELECTRICAL GROUND SYSTEM.
- BCT TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUGTAP TO DEDICATED HOME RUN ACT BACK TO THE TGB. SEE DETAILS.
- TYPICAL TBB(S) THAT INTERCONNECTS ALL IDF TGB(S) WITH THE TMGB.
- BONDING CONDUCTOR TO EACH ARMORED FIBER JACKET. IDF SIDE ONLY.
- TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-B) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
- TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER LABEL



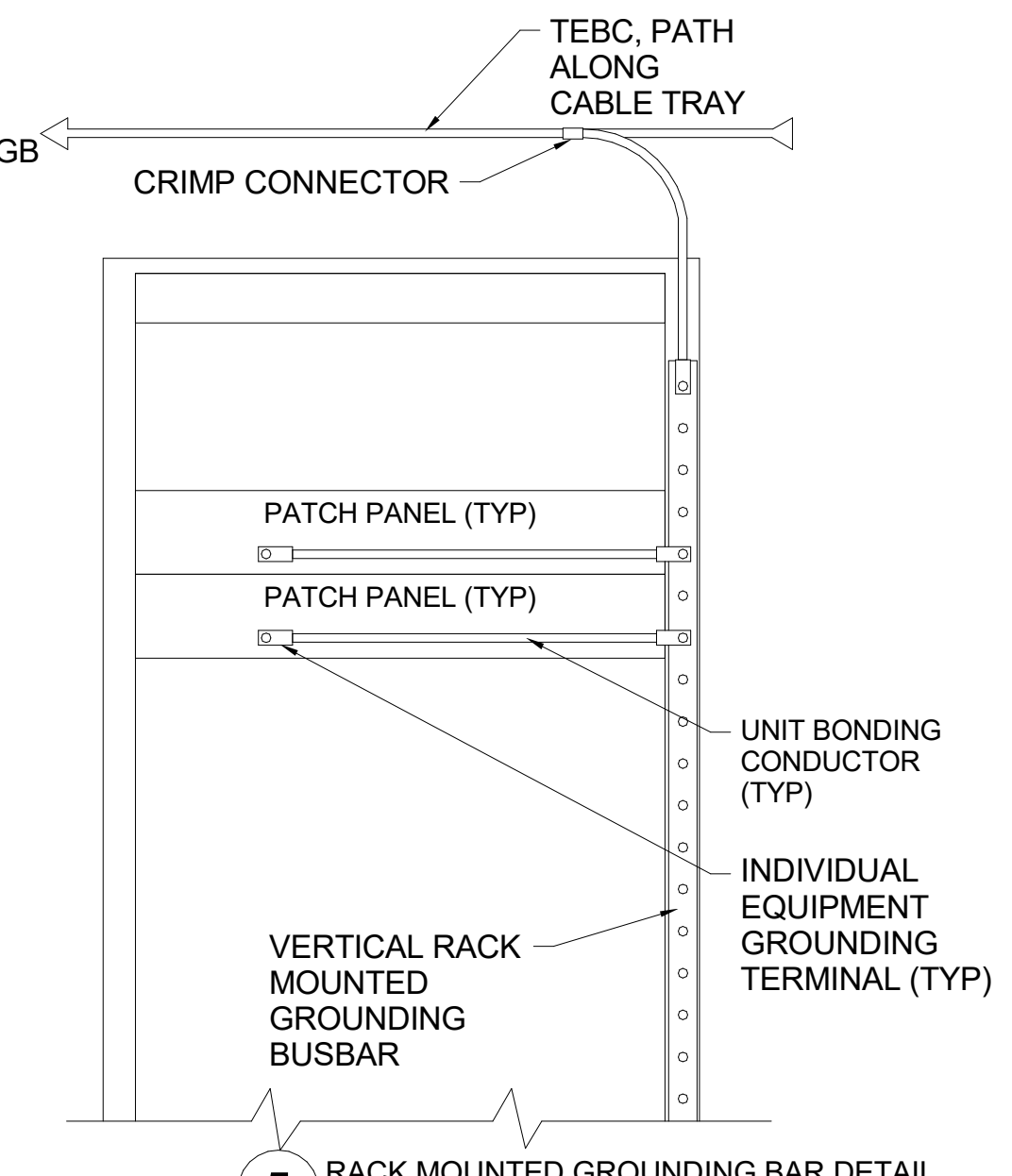
2 TYPICAL GROUNDING FLOW DIAGRAM
SCALE: NS



3 TELECOM ROOM BONDING DIAGRAM
SCALE: NS



4 TELECOM BONDING BACKBONE SPLICE DETAIL
SCALE: NTS

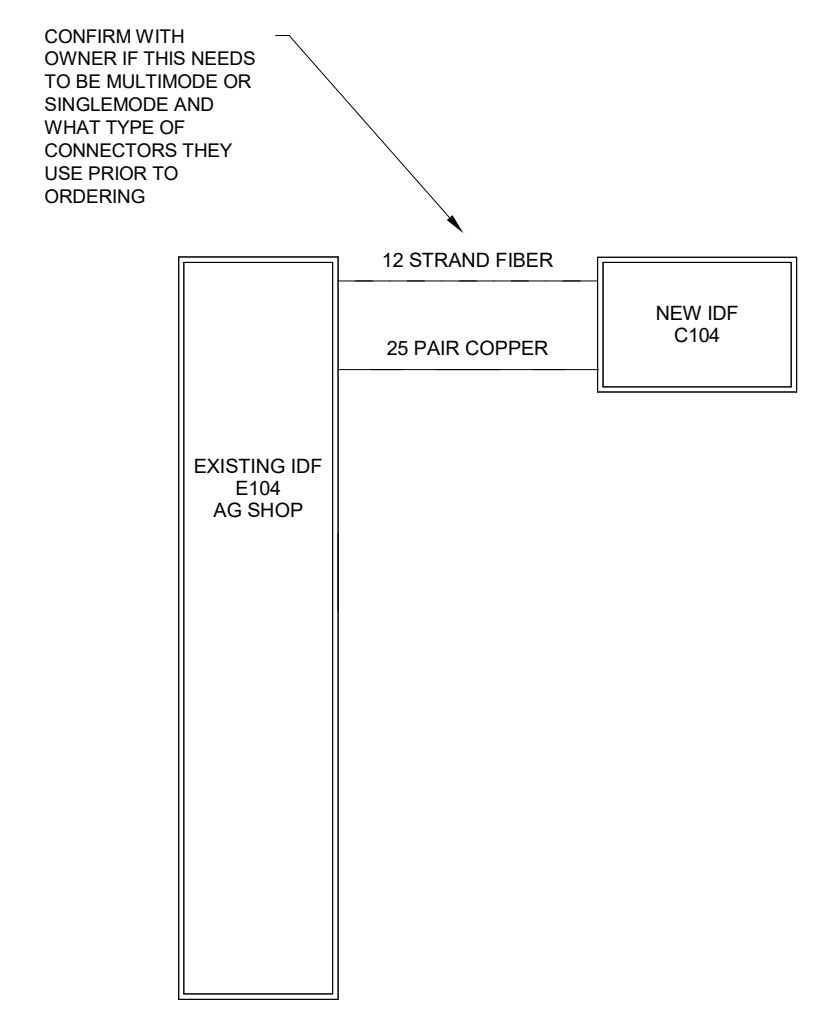


5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

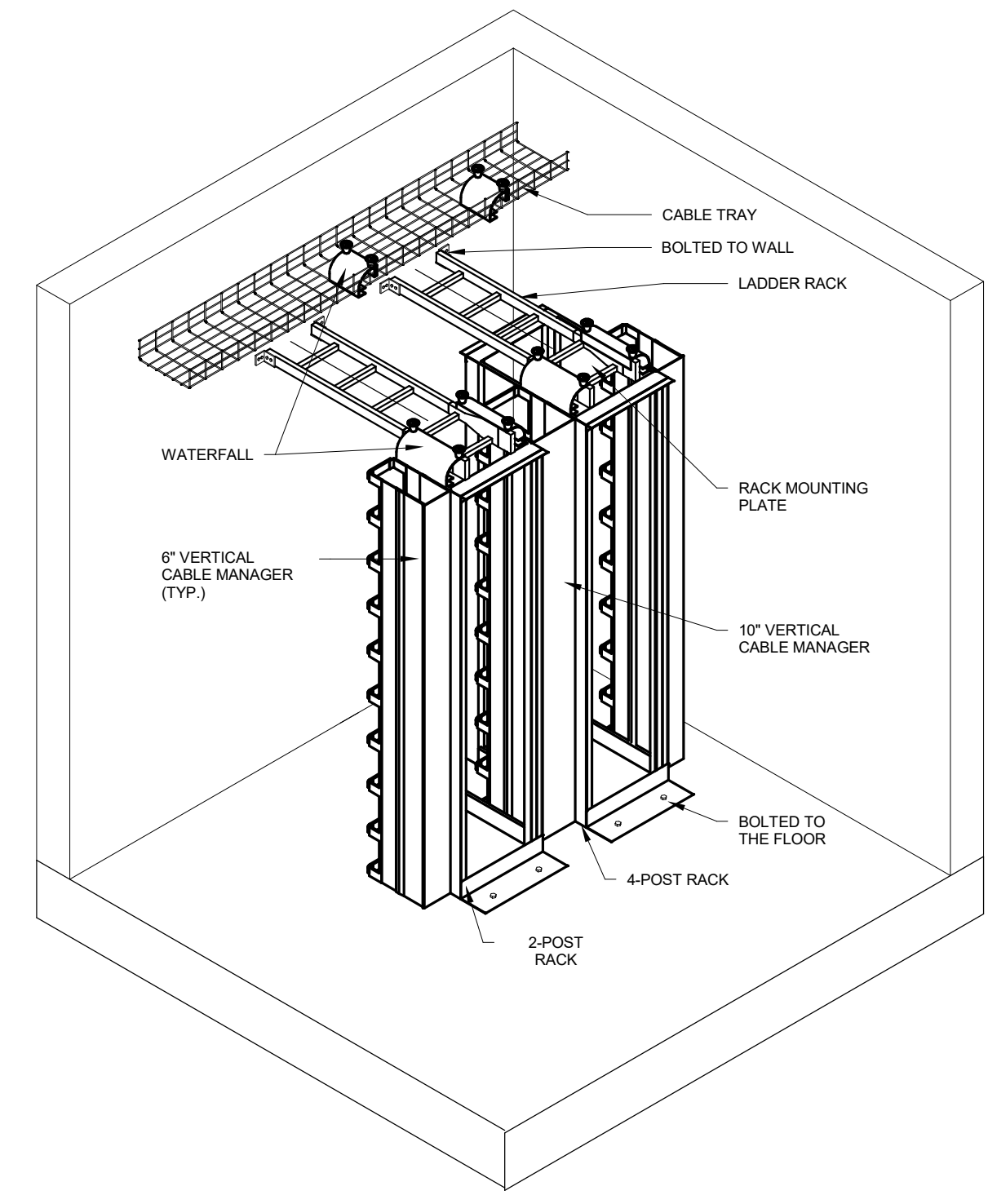
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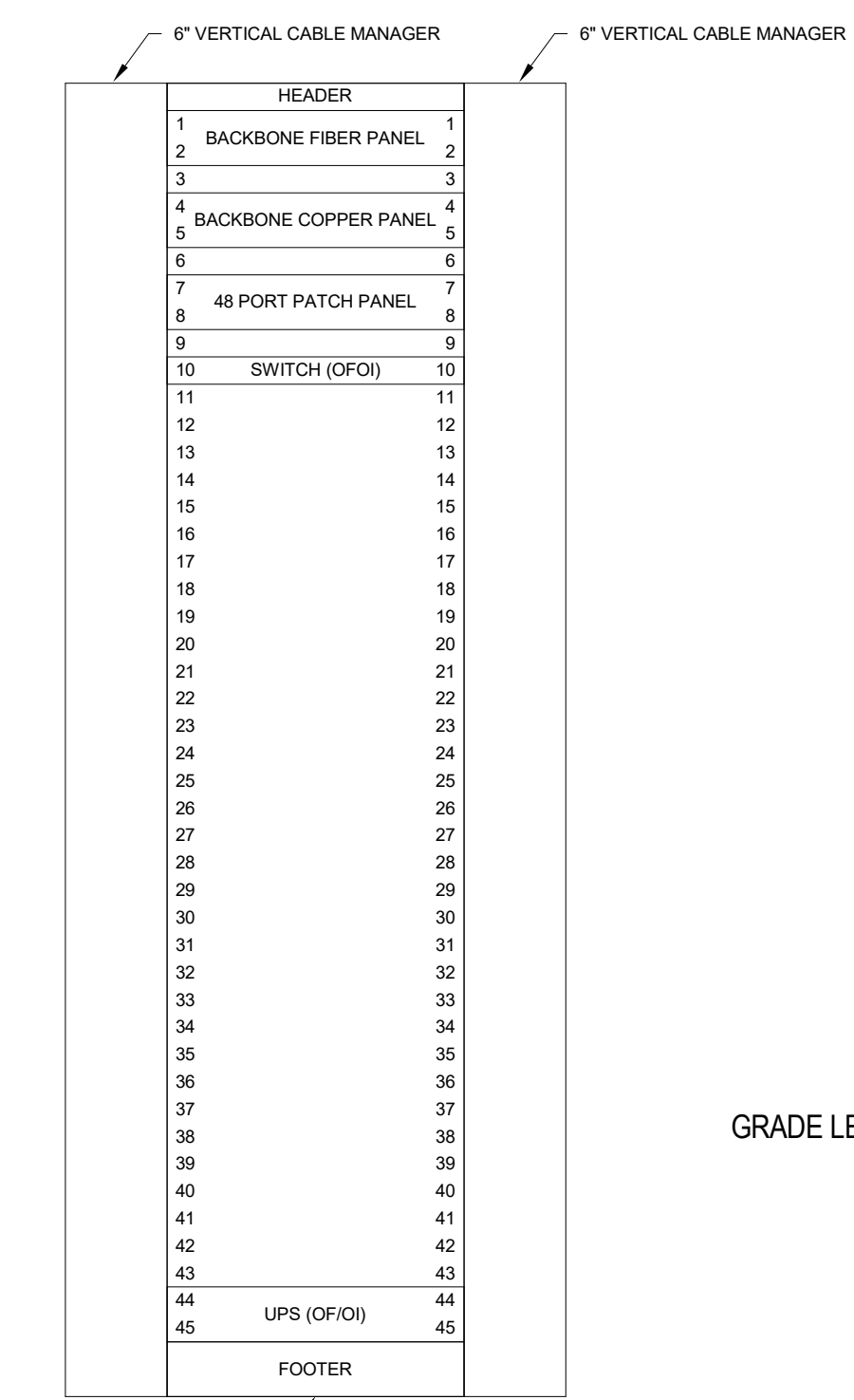
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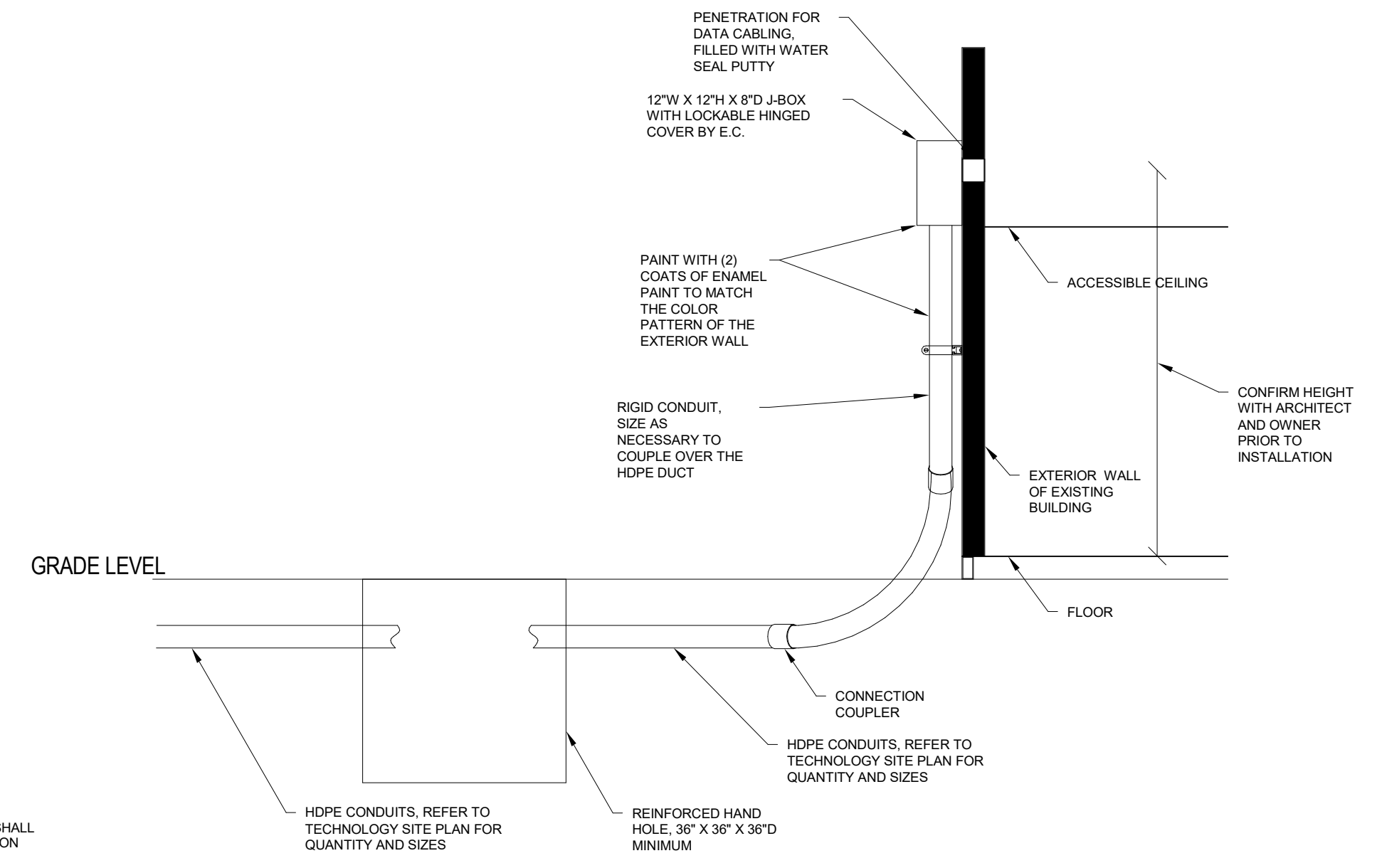
1 FIBER AND COPPER BACKBONE SERVICES
SCALE: NTS



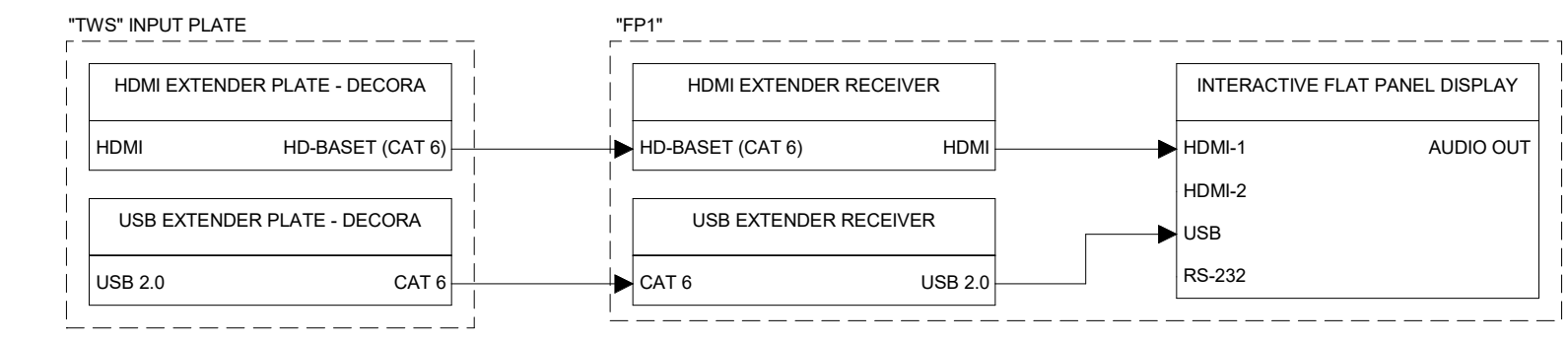
2 TYPICAL TELECOMMUNICATIONS ROOM DETAIL
SCALE: NTS



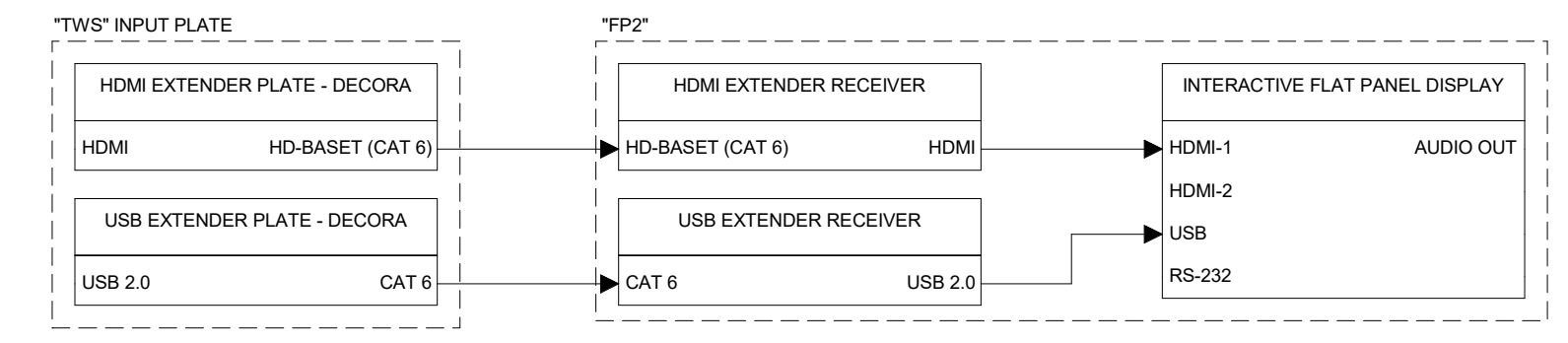
3 IDF RACK ELEVATION (TYPICAL)
SCALE: NTS



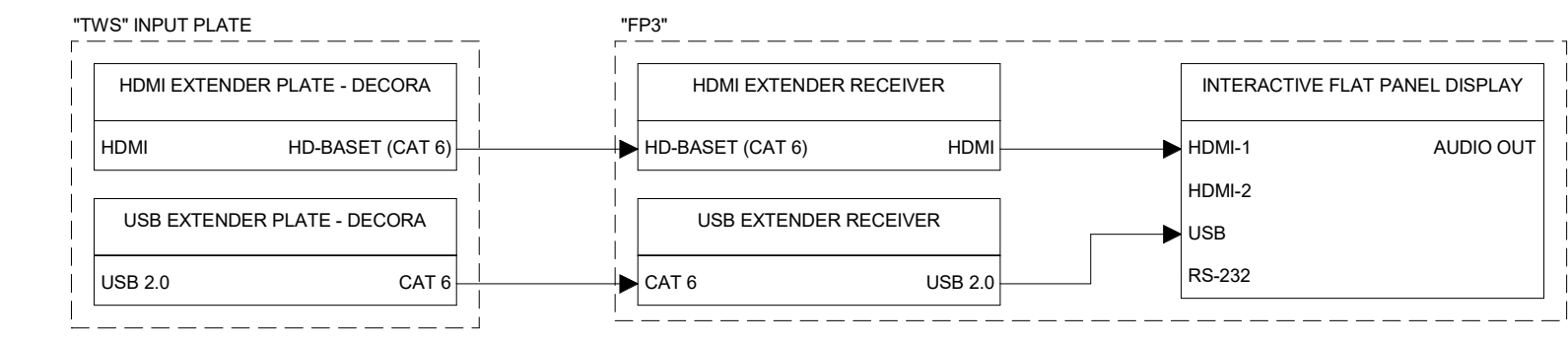
4 CONDUIT ROUTING TO EXISTING BUILDING
SCALE: NS



5 TYPICAL CLASSROOM DISPLAY SYSTEM - AV SCHEMATIC
SCALE: NTS



6 COSMETOLOGY CLASSROOM DISPLAY SYSTEM - AV SCHEMATIC
SCALE: NTS



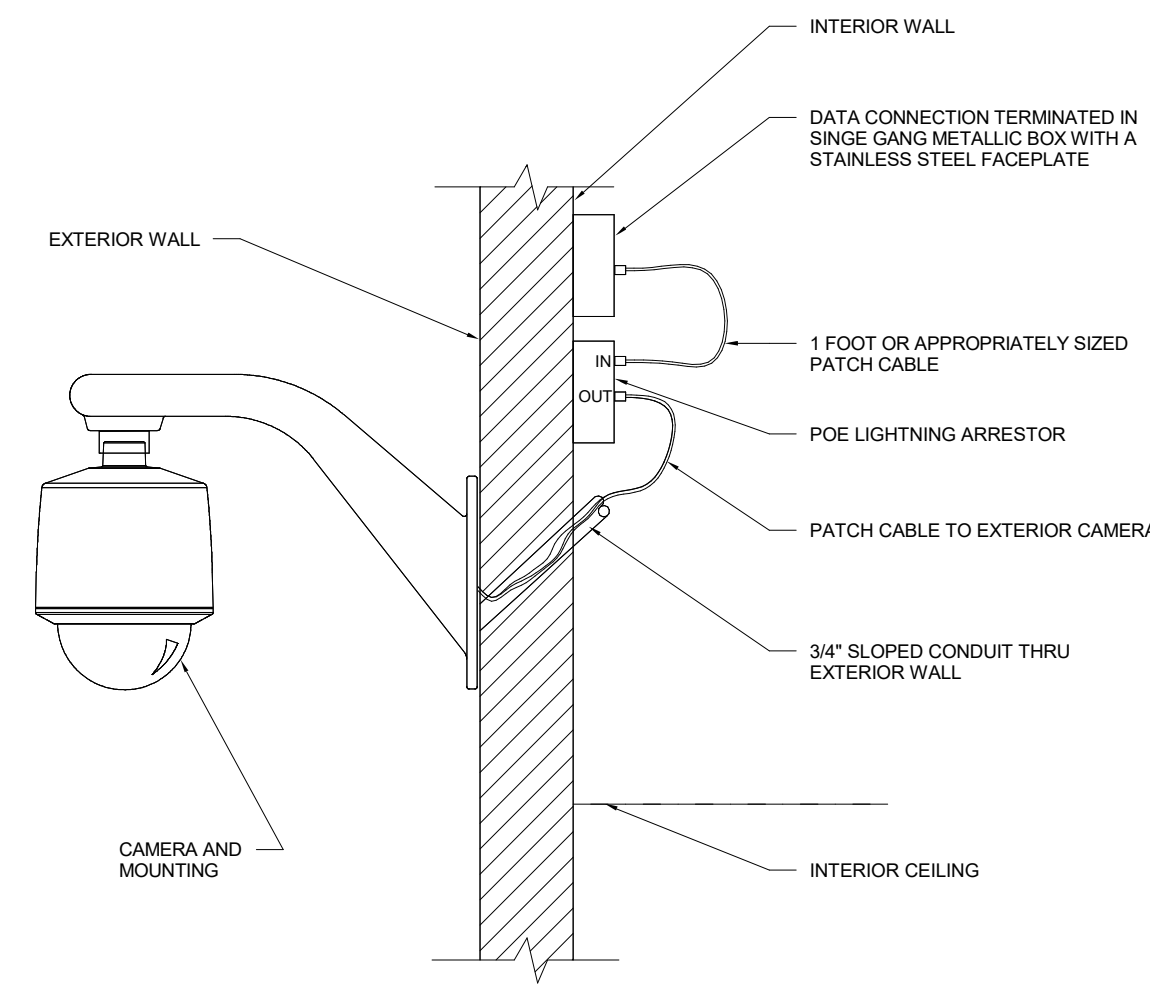
7 CULINARY CLASSROOM DISPLAY SYSTEM - AV SCHEMATIC
SCALE: NTS

Revision:

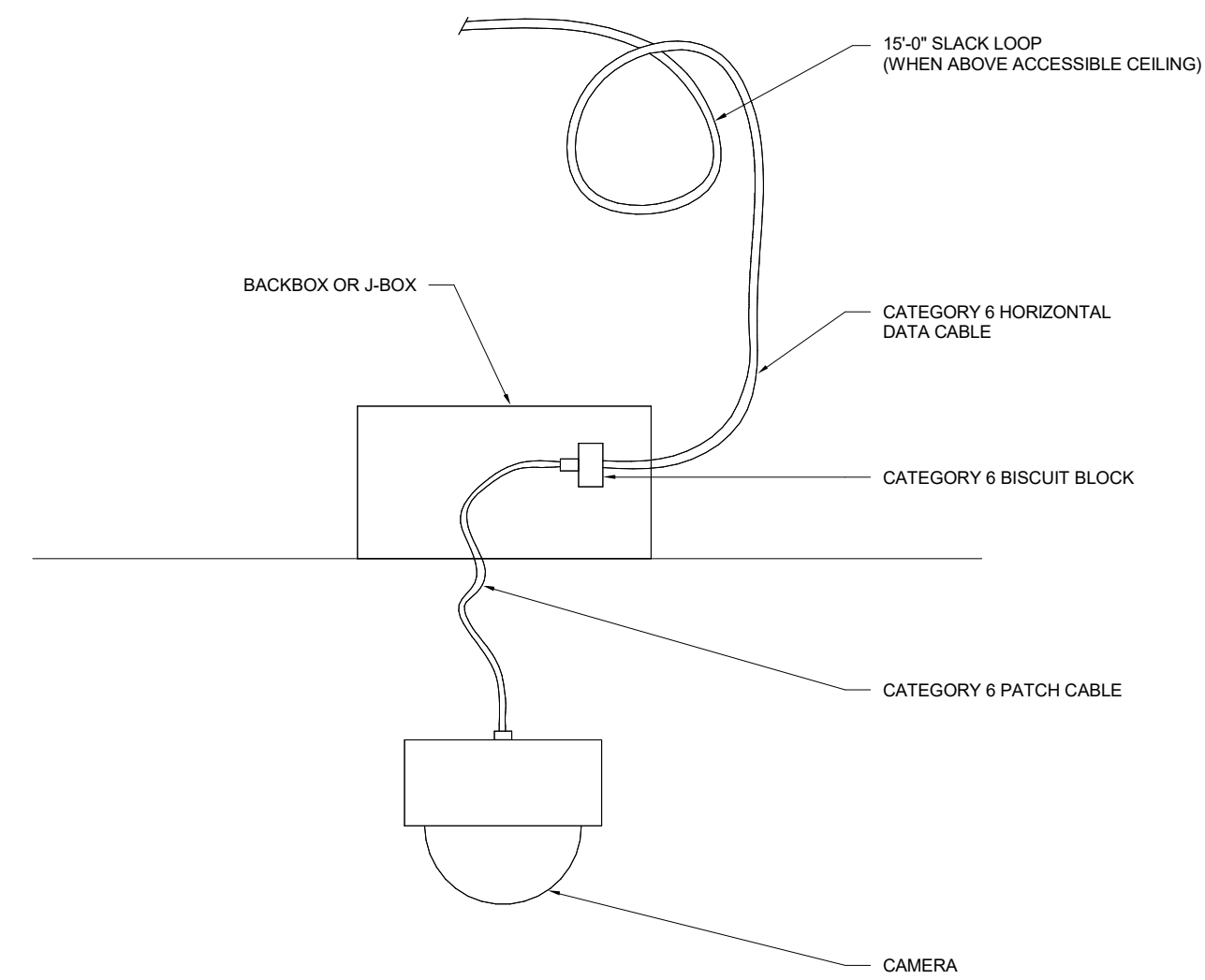
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GENERAL NOTES:

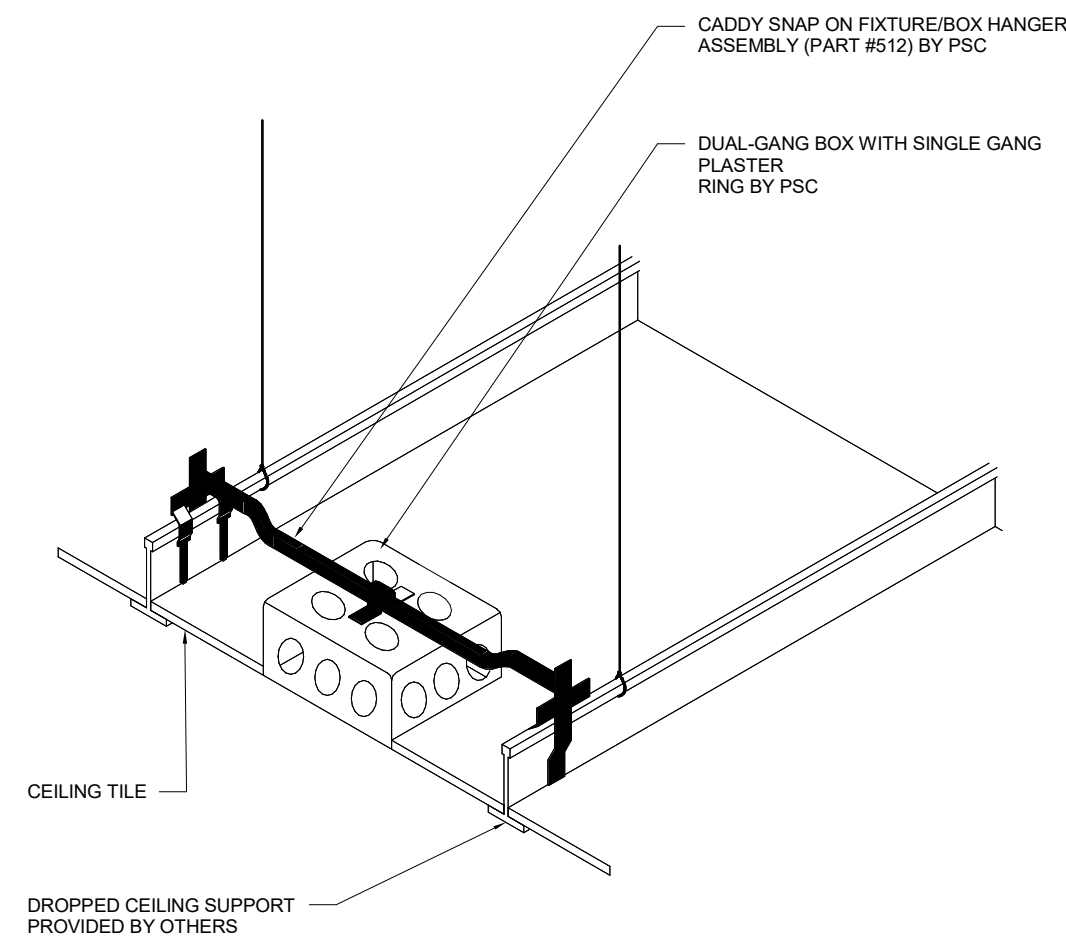
1. REFER TO SECURITY SCHEDULE AND WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX" CAMERAS.



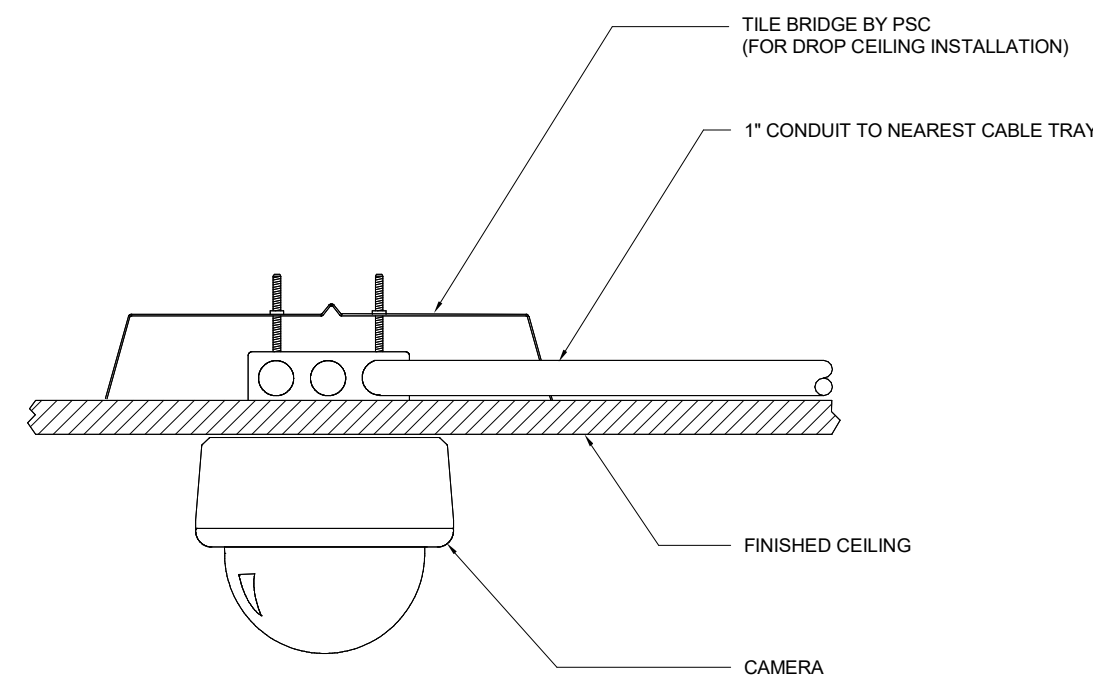
1 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



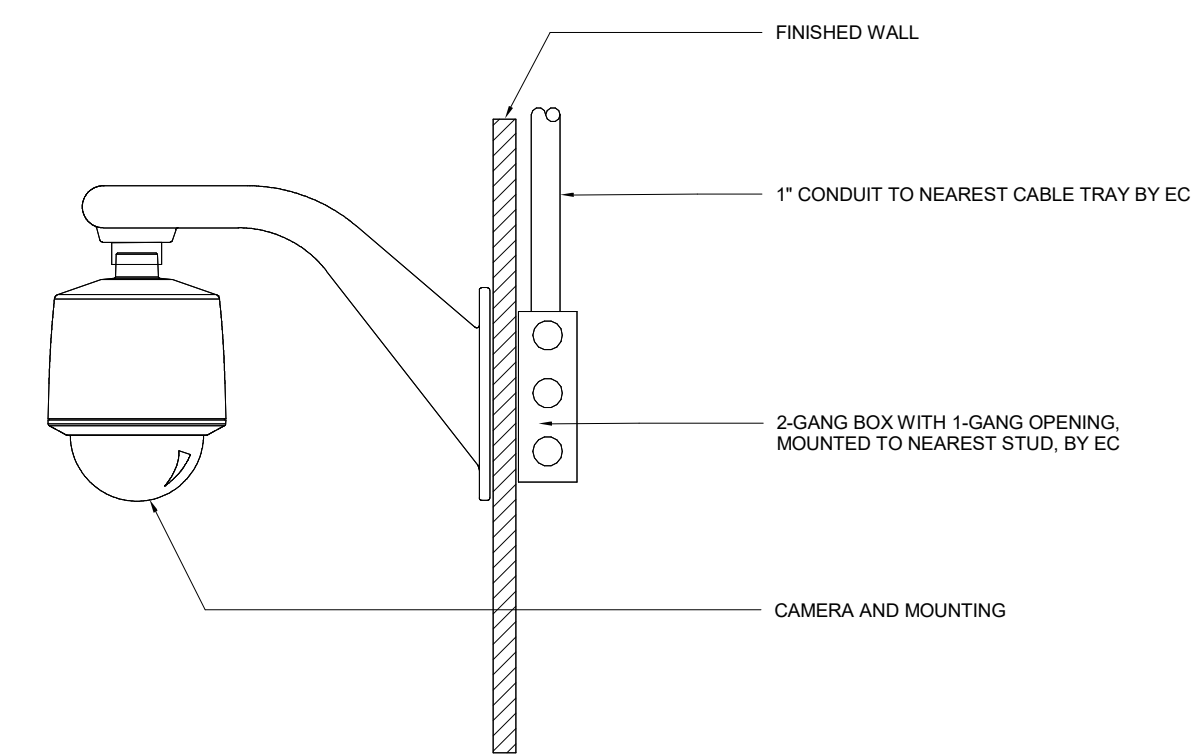
2 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



3 TILE BRIDGE DETAIL
SCALE: NS



4 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



5 WALL MOUNTED CAMERA DETAIL
SCALE: NS



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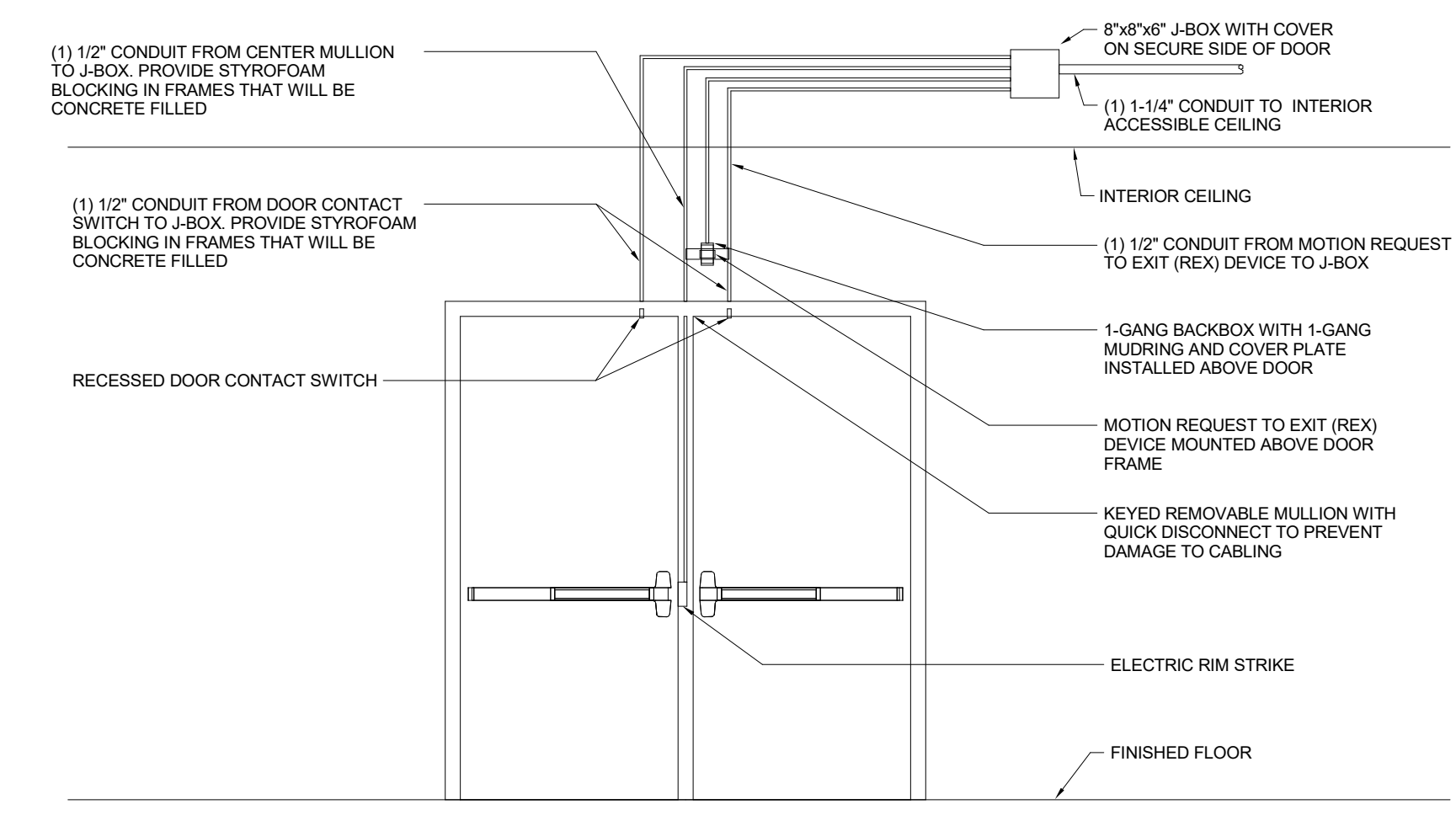


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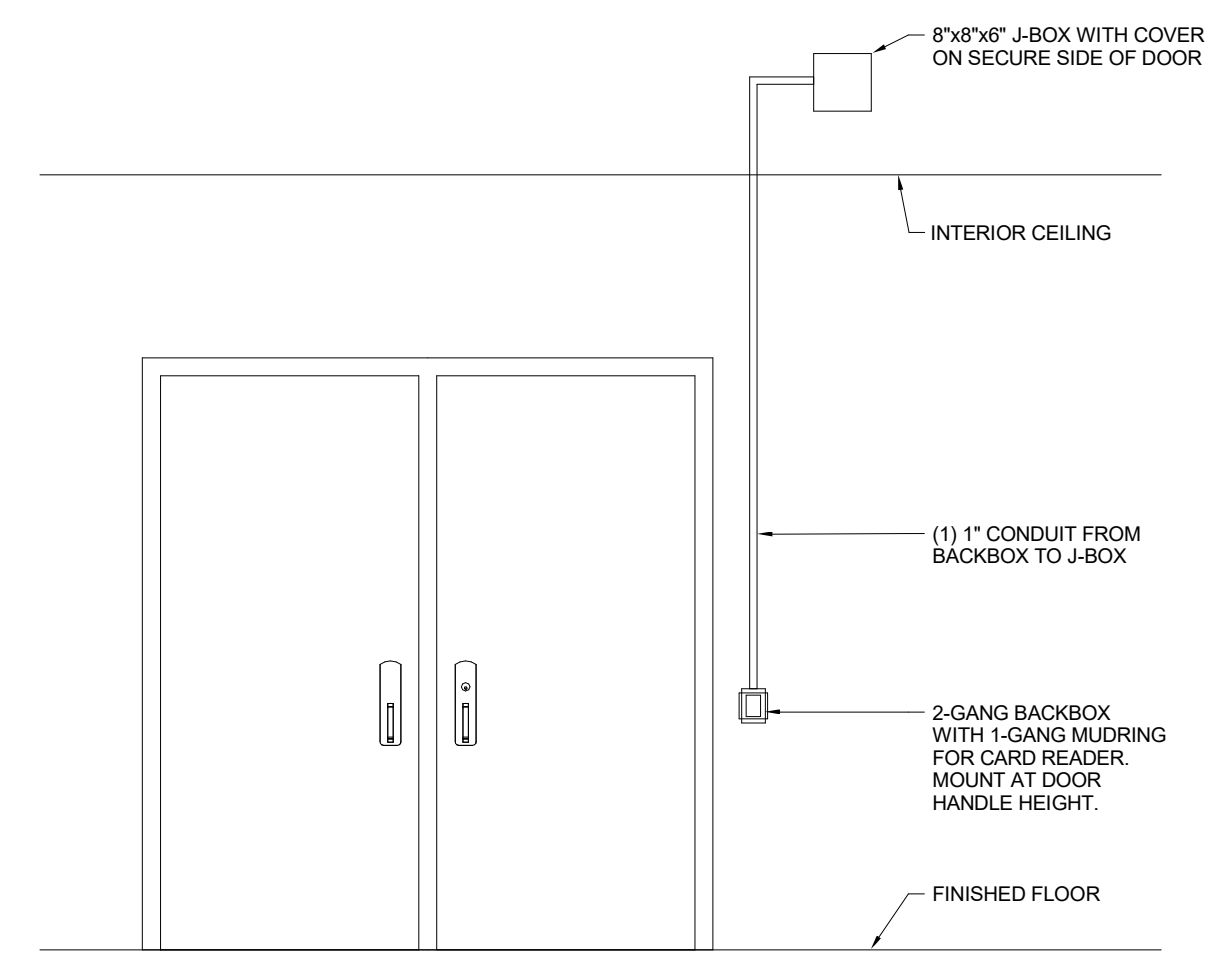
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SECURE SIDE

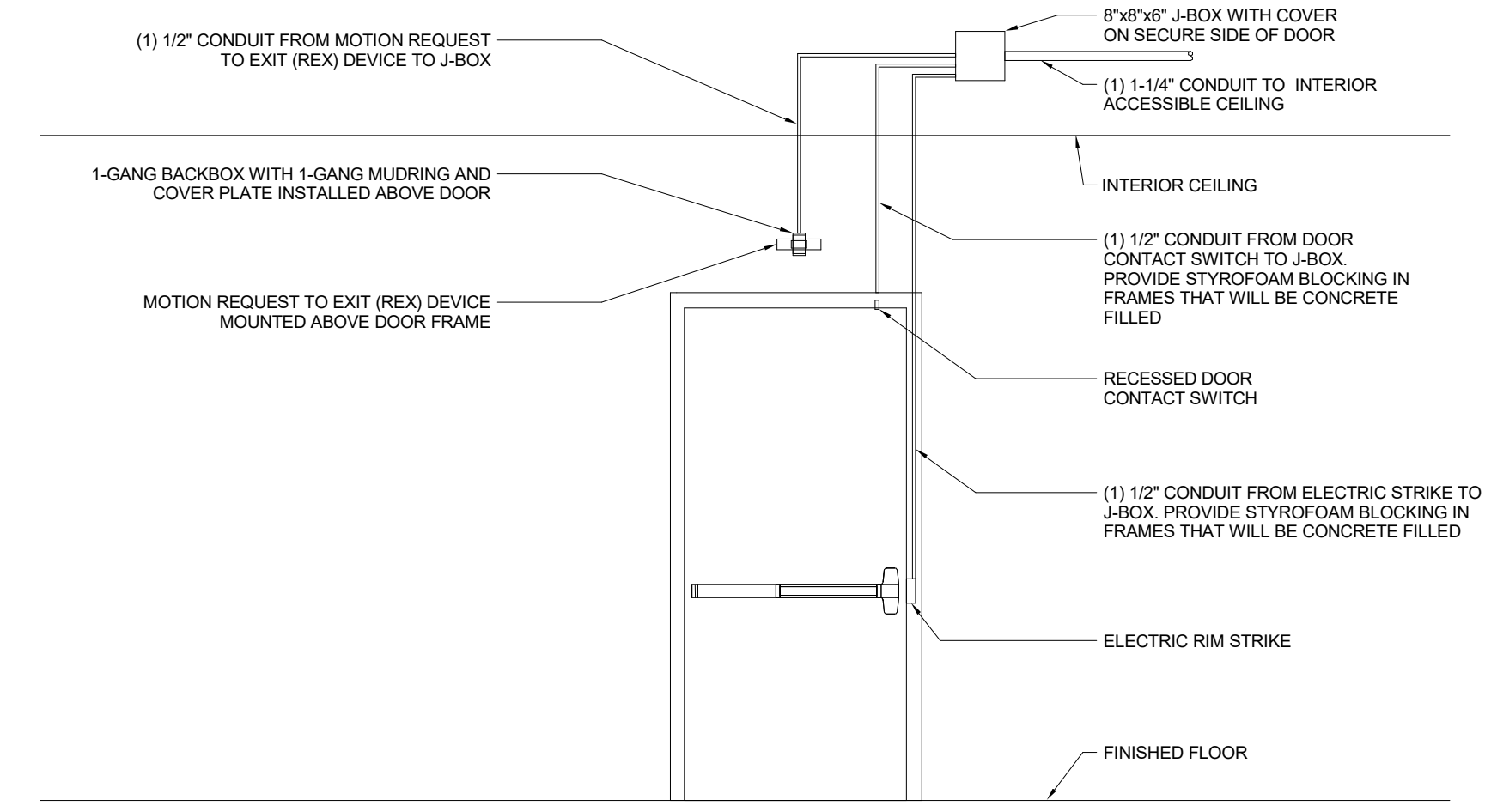


1 TYPICAL UNIVERSAL DOUBLE DOOR ROUGH-IN DETAIL - CR TYPE 1
SCALE: NTS

NON-SECURE SIDE

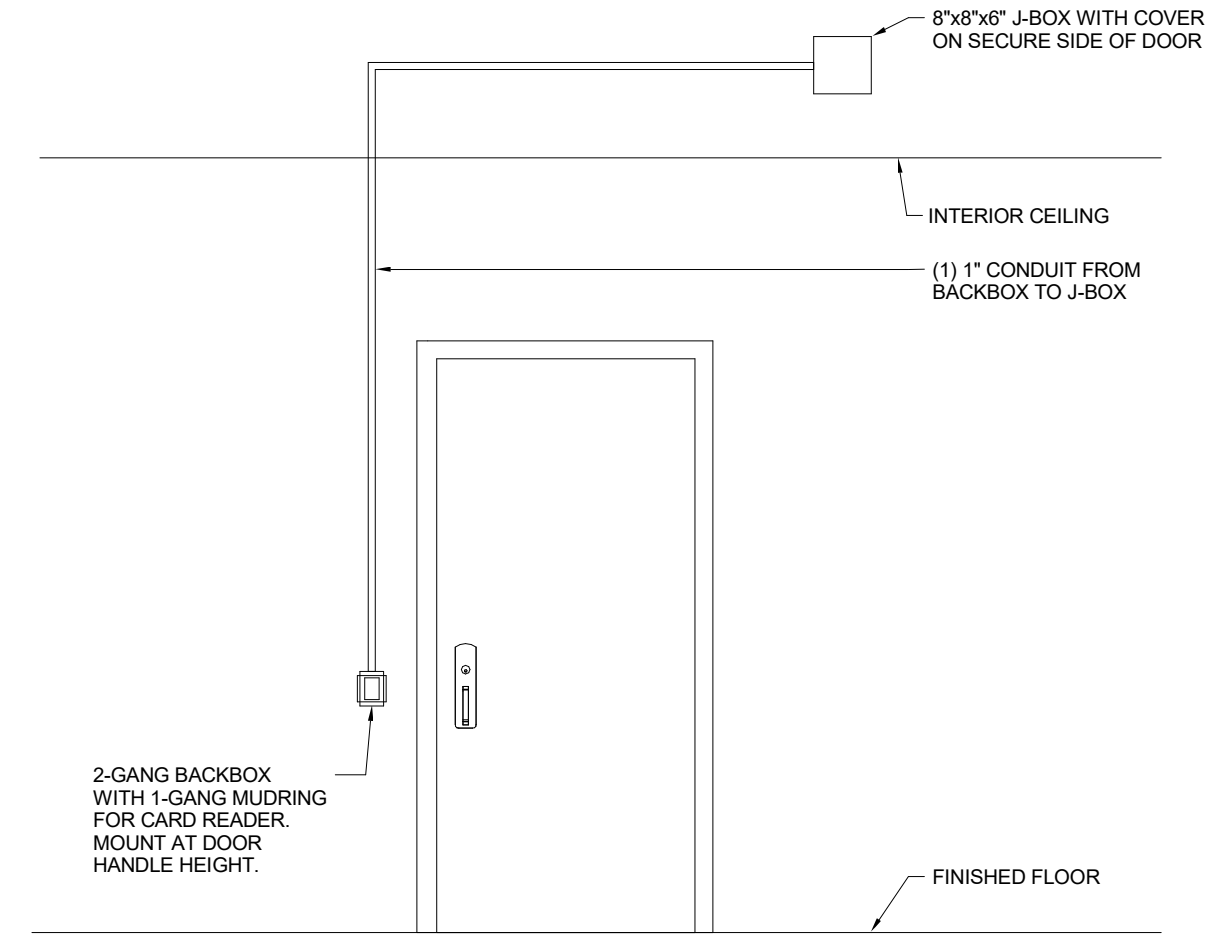


SECURE SIDE

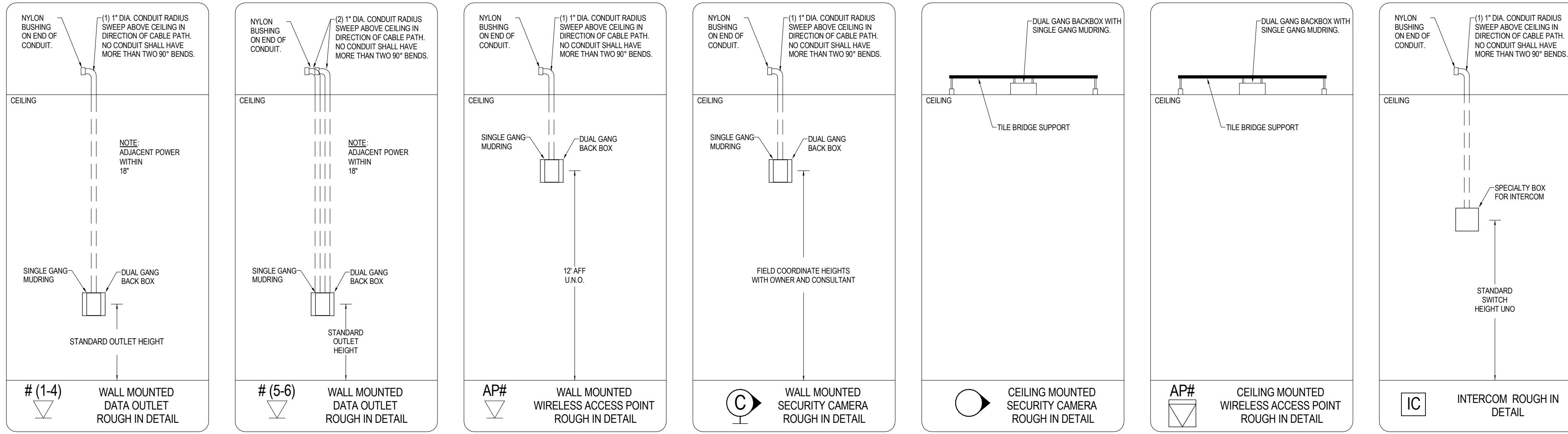


2 TYPICAL UNIVERSAL SINGLE DOOR ROUGH-IN DETAIL CR - TYPE 2
SCALE: NTS

NON-SECURE SIDE

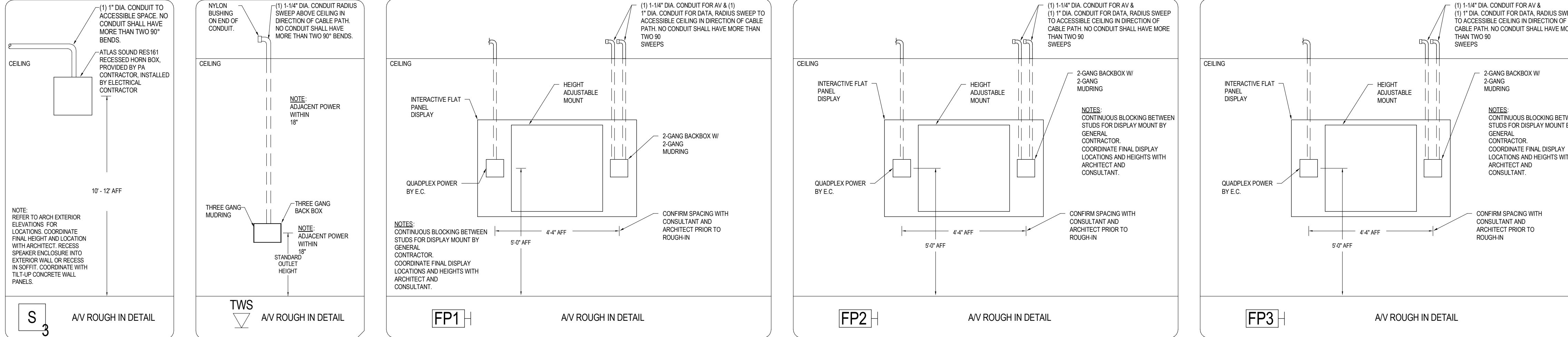


ALL TECHNOLOGY JUNCTION BOXES TO HAVE NOMINAL DEPTH OF 3-1/2" UNLESS NOTED OTHERWISE



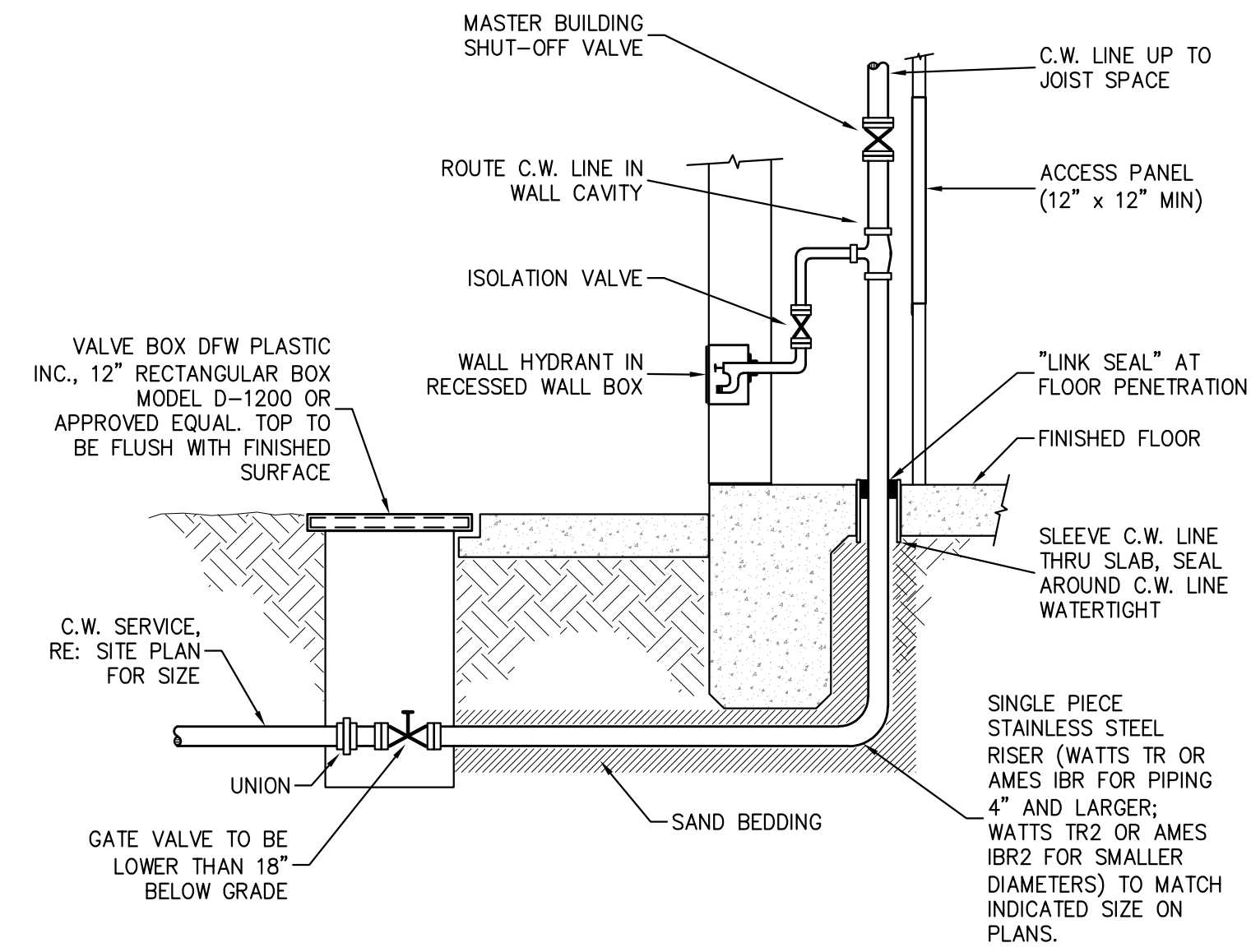
1 TECHNOLOGY ROUGH-IN DETAILS - BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
 SCALE: NS

AS PERMITTED BY WALL THICKNESS, ALL JUNCTION BOXES TO HAVE NOMINAL DEPTH OF 3-1/2" UNLESS NOTED OTHERWISE

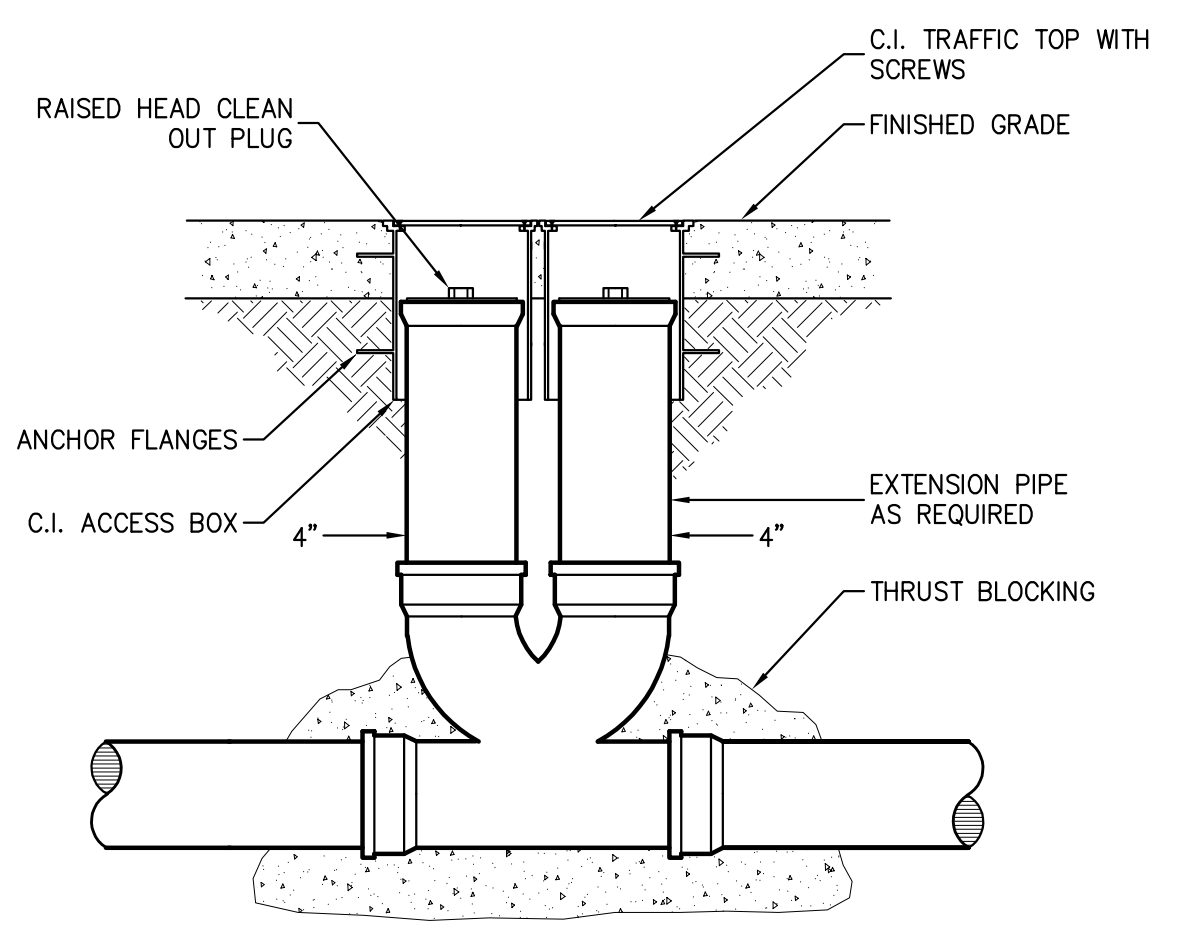


2 TECHNOLOGY ROUGH-IN DETAILS - BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
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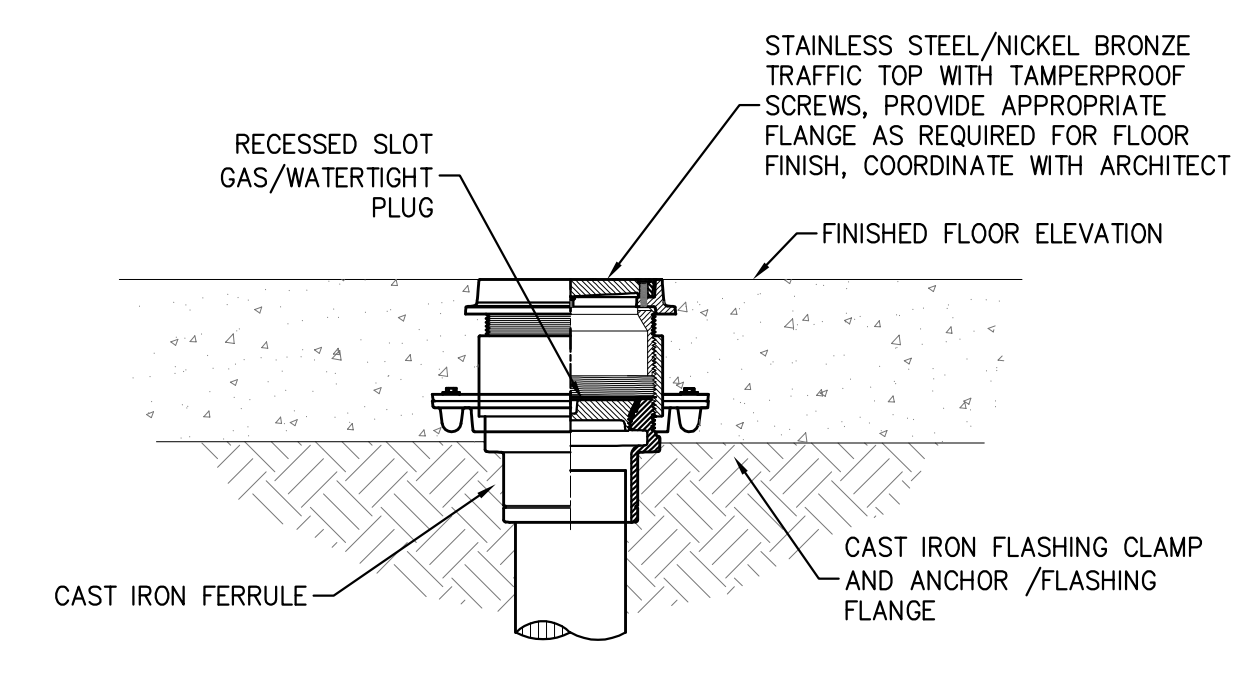
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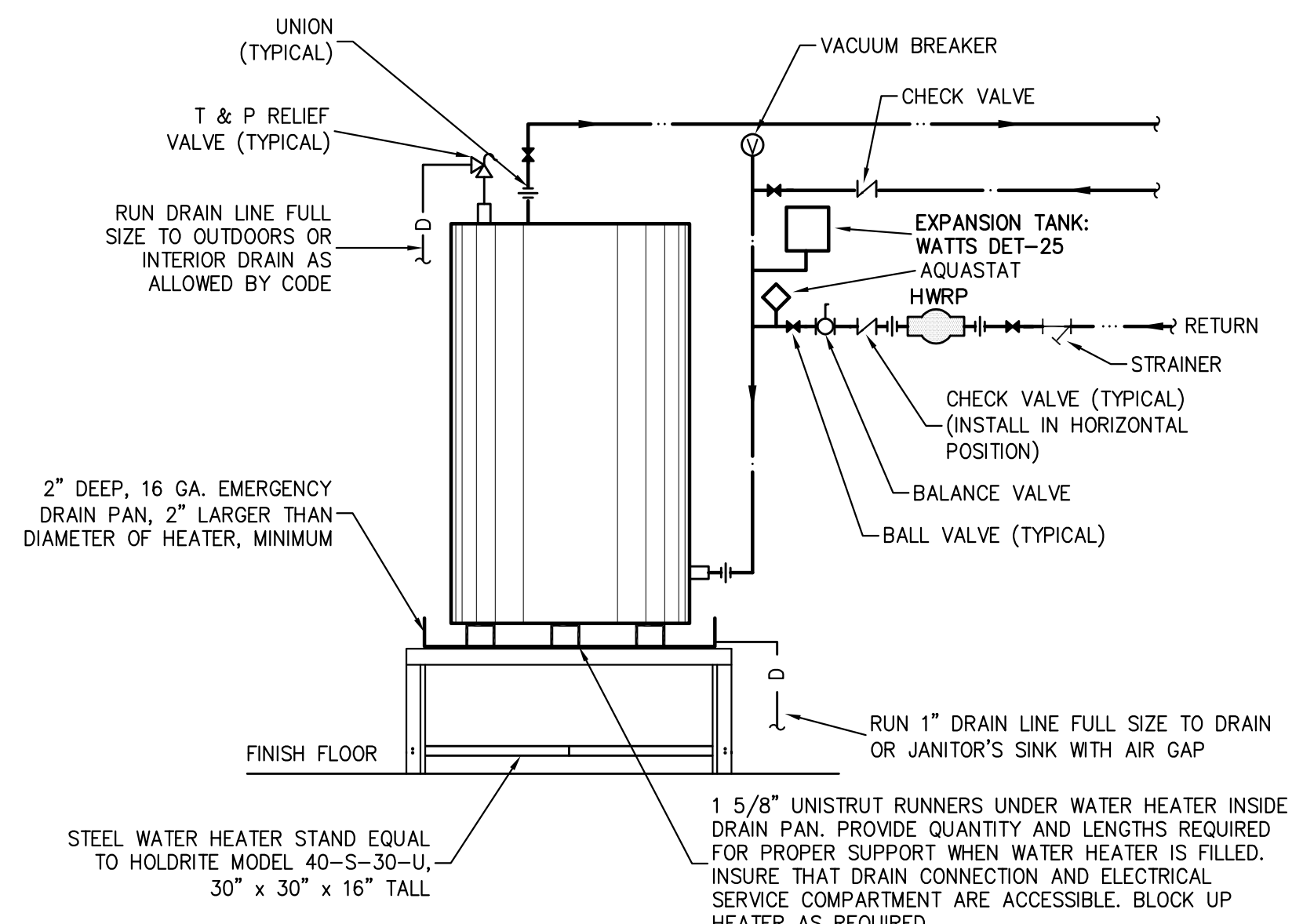
C.W. BUILDING ENTRY DETAIL
NO SCALE PDE52



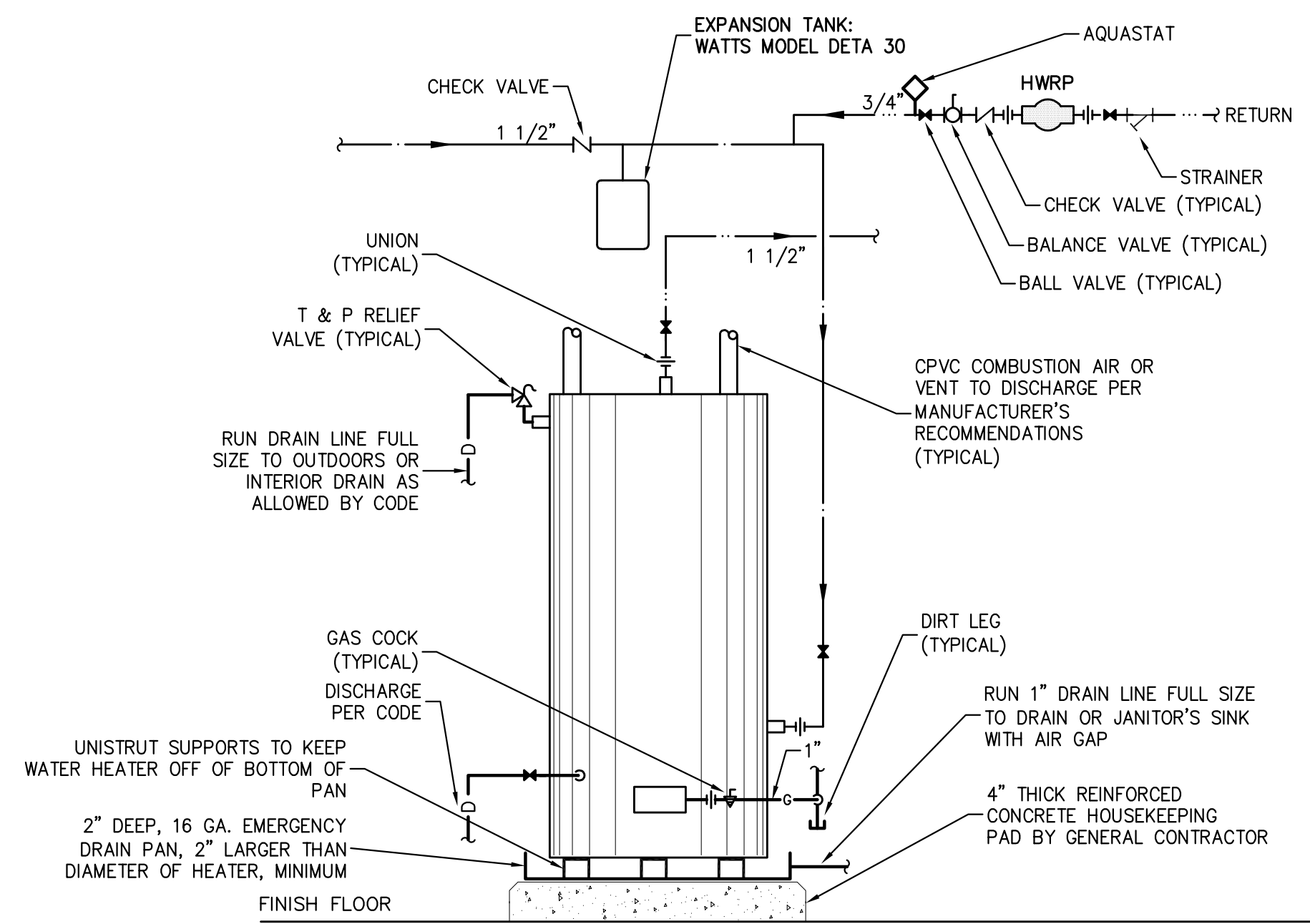
DOUBLE CLEANOUT DETAIL
NO SCALE PDE43



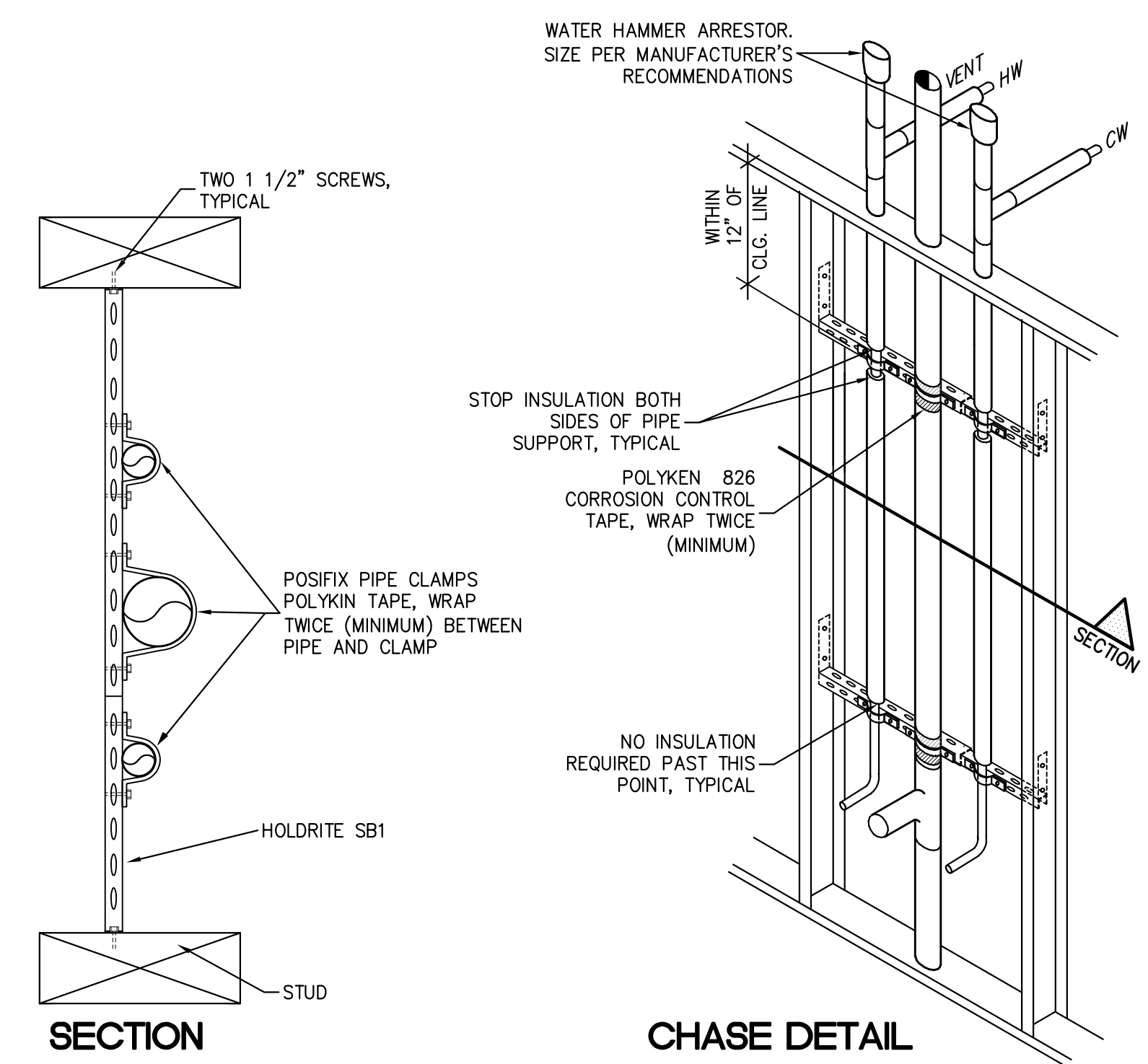
INTERIOR FLOOR CLEANOUT
NO SCALE PDE55



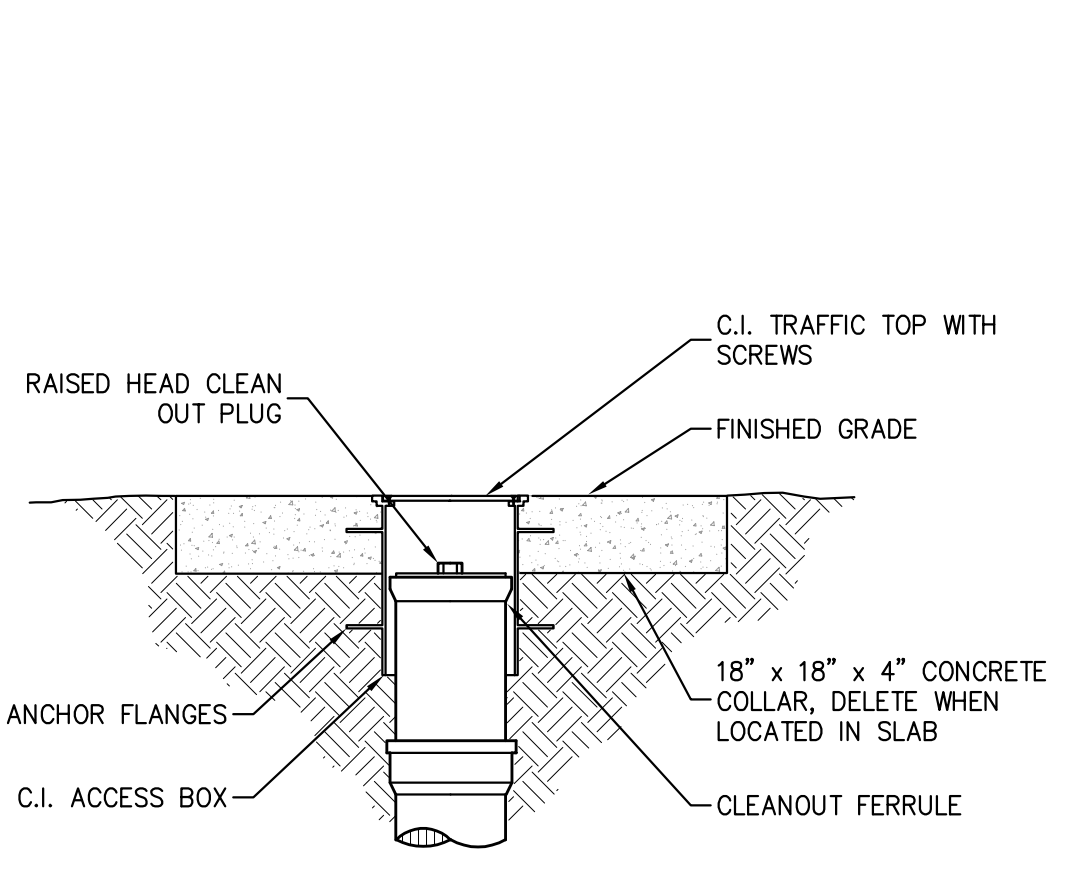
WATER HEATER DETAIL
NO SCALE PDE81



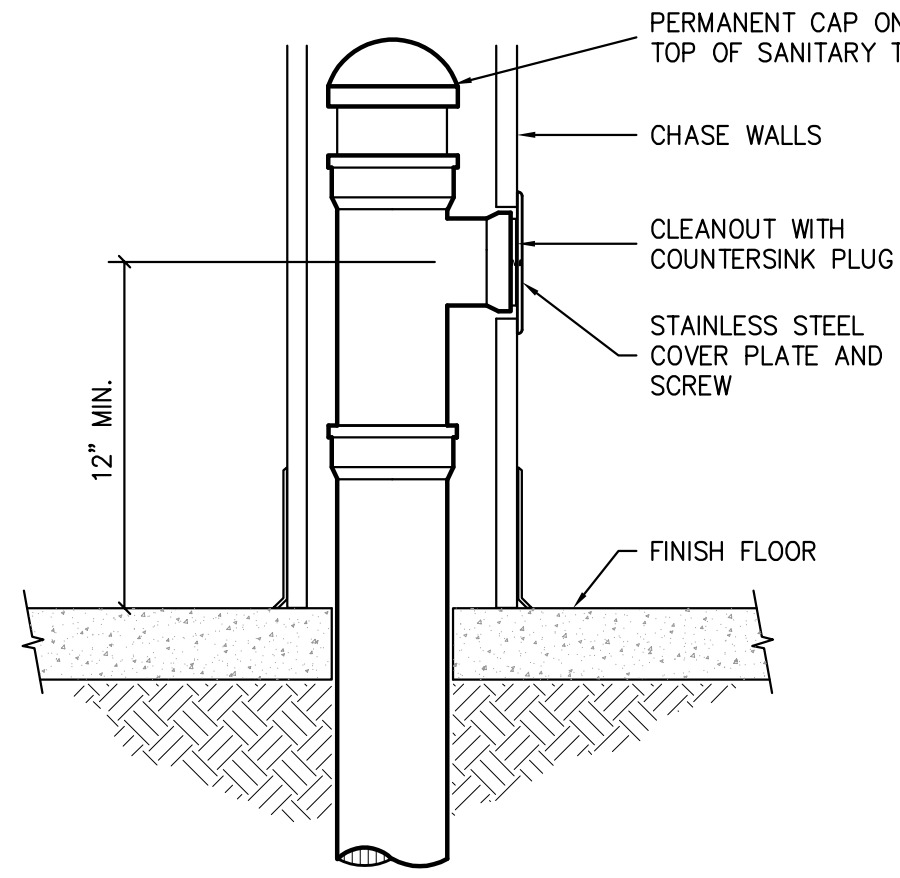
WATER HEATER PIPING DIAGRAM
NO SCALE pde113



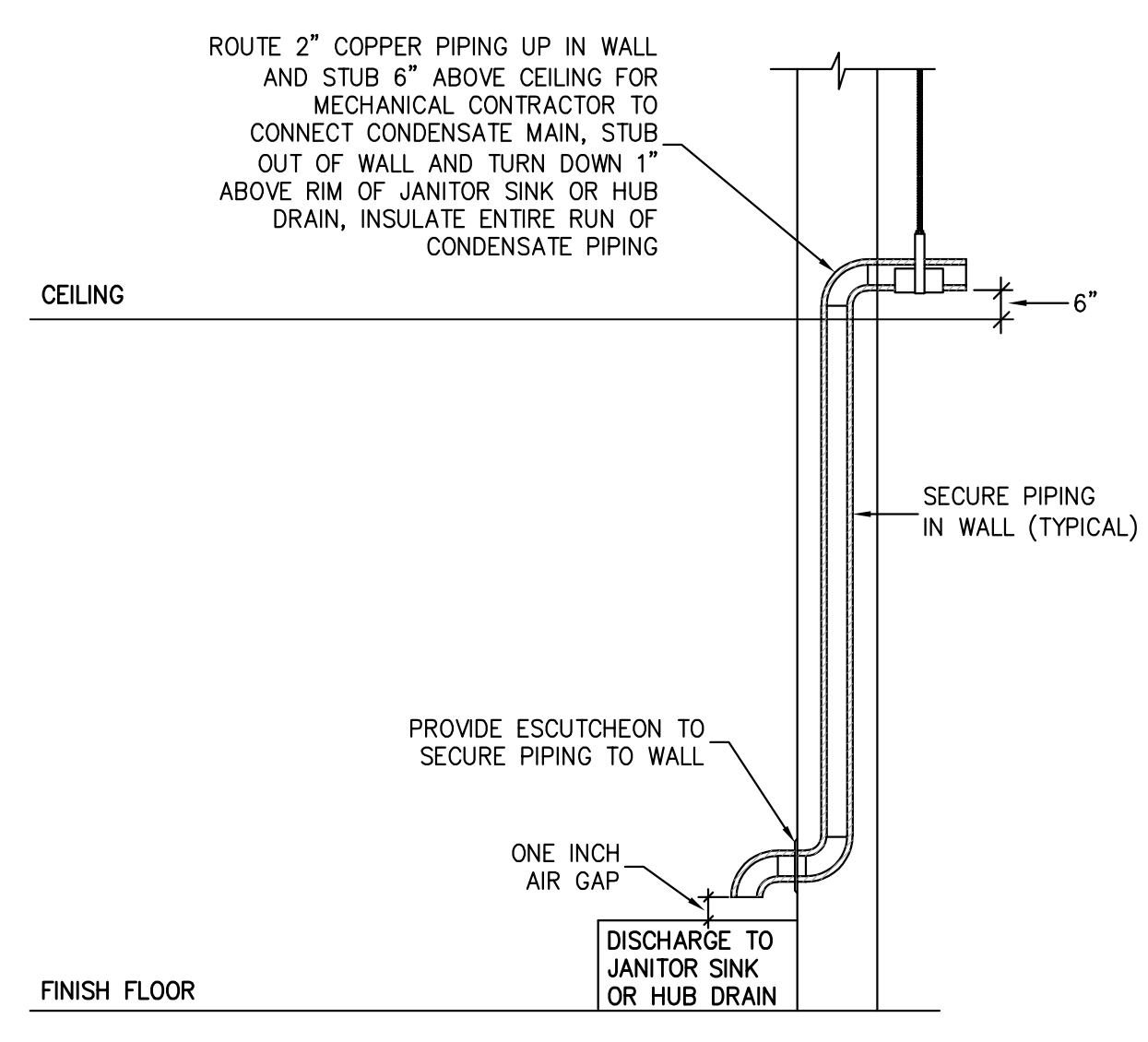
TYP. PLUMBING CHASE SUPPORT DETAIL
NO SCALE PDE30



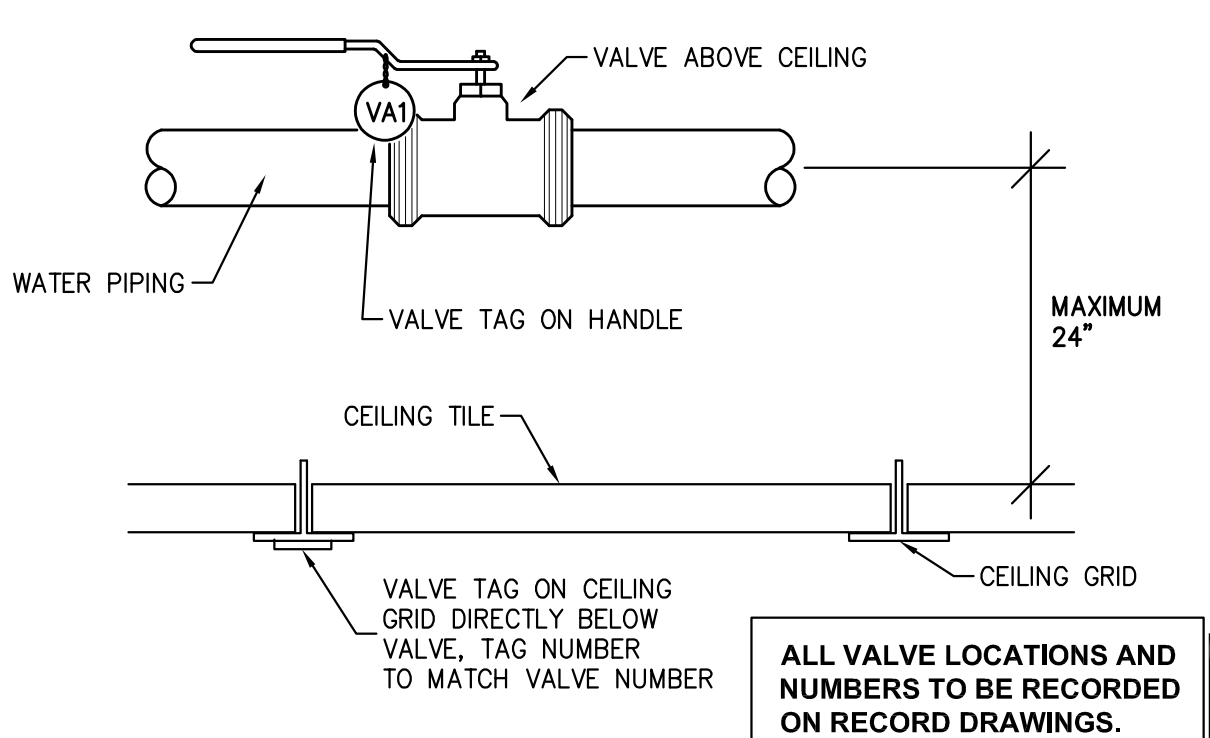
EXTERIOR CLEANOUT
NO SCALE PDE88



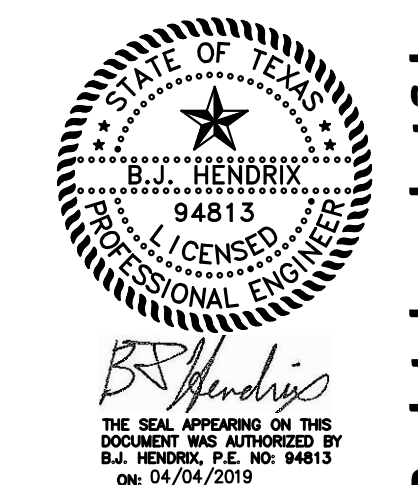
WALL CLEANOUT
NO SCALE PDE89



TYPICAL CONDENSATE STUB DETAIL
SCALE: NONE PDE37



TYPICAL VALVE IDENTIFICATION DETAIL
SCALE: NO SCALE PDE27



REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION

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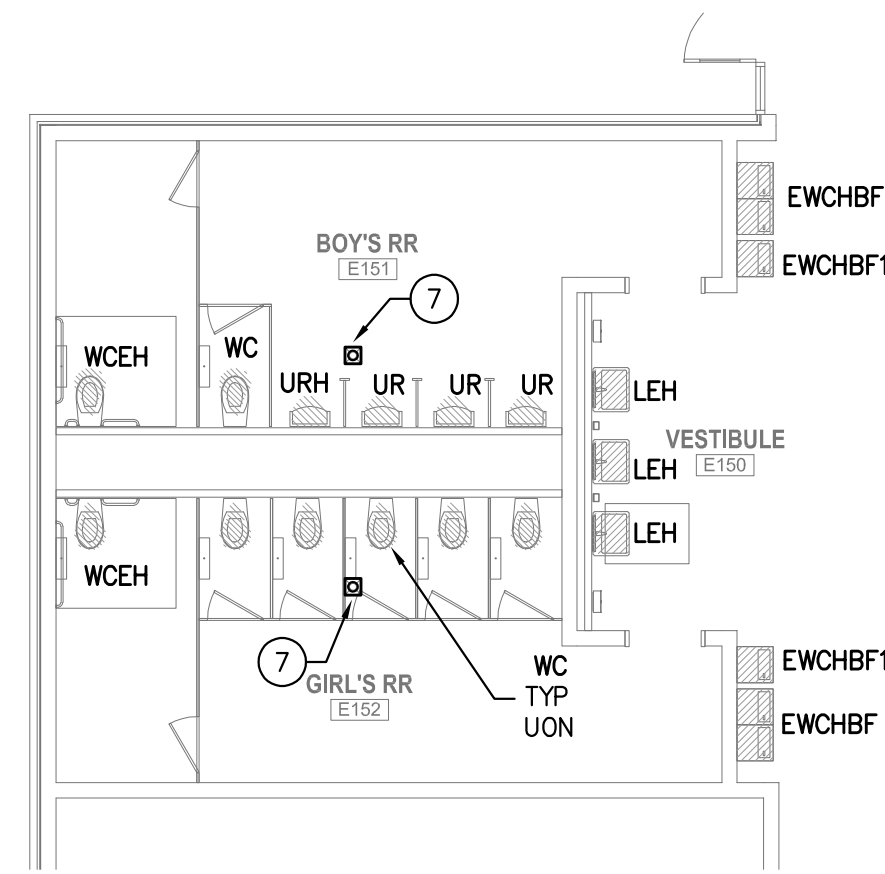
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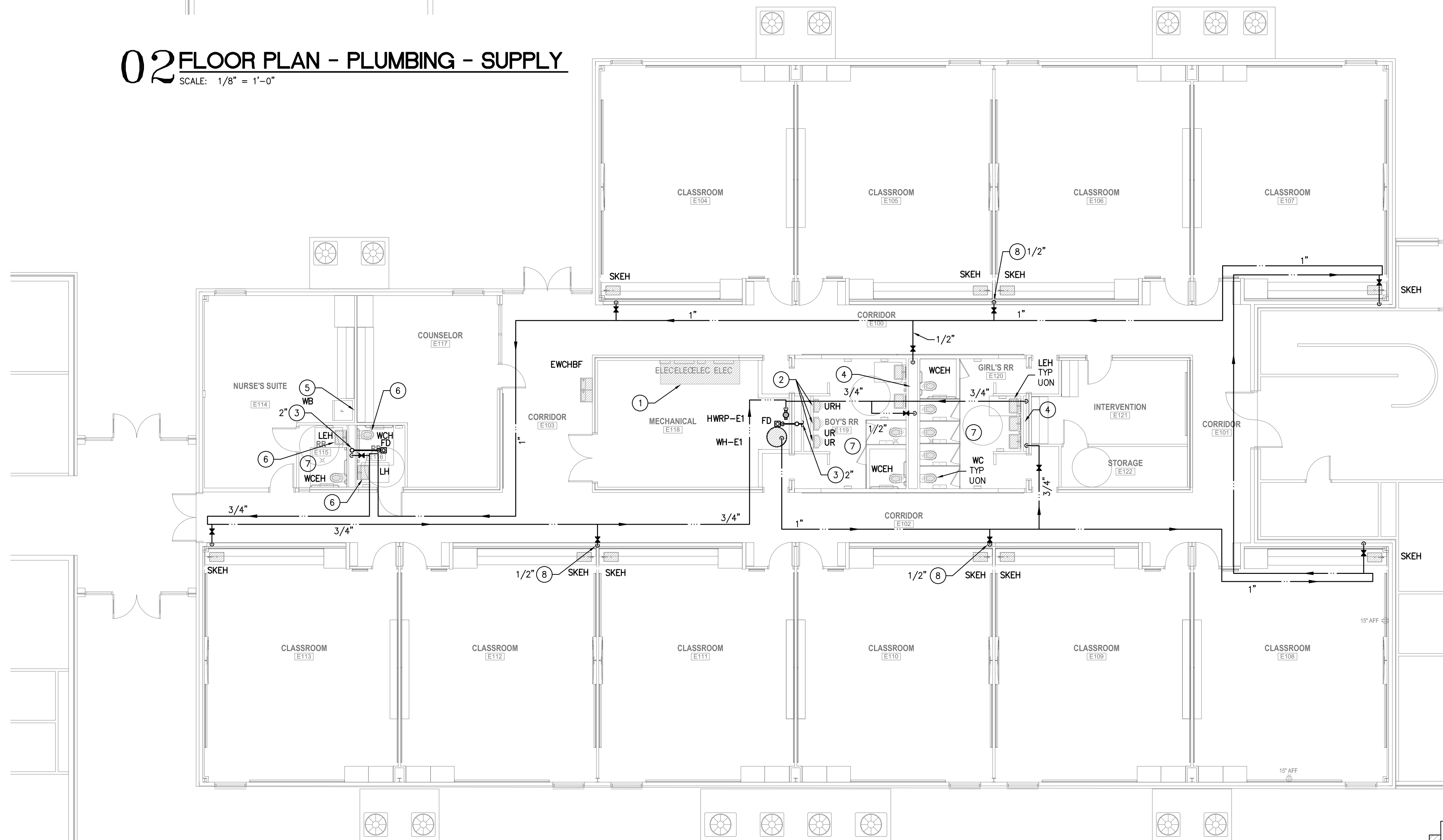
KEYED NOTES

- THESE NOTES APPLY TO THIS SHEET ONLY
- DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
 - APPROXIMATE LOCATION OF EXISTING FLOOR MOUNTED URINAL TO BE REMOVED. EXTEND UTILITIES AS REQUIRED TO NEW URINAL LOCATIONS. PROVIDE ALL ADAPTERS, TRANSITIONS, ETC AS REQUIRED FOR NEW URINALS.
 - CONNECT NEW WASTE WATER (WW) TO EXISTING WW BELOW FINISHED FLOOR. FIELD VERIFY EXACT LOCATION AND INVERT OF EXISTING WW. DOCUMENT NEW AND EXISTING UTILITIES ON RECORD DRAWINGS.
 - ROUTE HW DOWN ON ONE SIDE OF LAVATORIES, BACK UP ON OTHER SIDE OF LAVATORIES AND RECONNECT TO HW RECIRC MAIN. (THIS IS DONE TO MEET MAXIMUM LENGTHS PER IECC).
 - CONNECT NEW COLD WATER (CW) TO EXISTING IN ADJACENT CHASE. FIELD VERIFY EXACT LOCATIONS.
 - NEW PLUMBING FIXTURE IN NEW LOCATION. CONNECT NEW FIXTURES TO EXISTING UTILITIES. PROVIDE ALL EXTENSIONS, ADAPTERS, ETC AS REQUIRED. PROVIDE NEW SHUT-OFF VALVES AND SUPPLY HOSES.
 - EXISTING FLOOR DRAIN IN ROOM TO REMAIN. FIELD VERIFY EXACT LOCATION.
 - HOT WATER (HW) DOWN IN WALL TO SERVE TWO (2) SINKS.

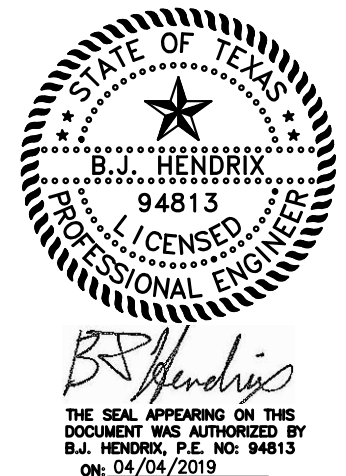


02 FLOOR PLAN - PLUMBING - SUPPLY

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



PLUMBING NOTE:
UNLESS OTHERWISE NOTED, ALL FIXTURES SHOWN ON THIS PLAN ARE EXISTING TO BE REMOVED AND REPLACED WITH NEW IN THE SAME LOCATION. CONTRACTOR TO CONNECT NEW FIXTURES TO EXISTING UTILITIES. PROVIDE ALL EXTENSIONS, ADAPTERS, ETC AS REQUIRED. PROVIDE NEW SHUT-OFF VALVES AND SUPPLY HOSES.



REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION



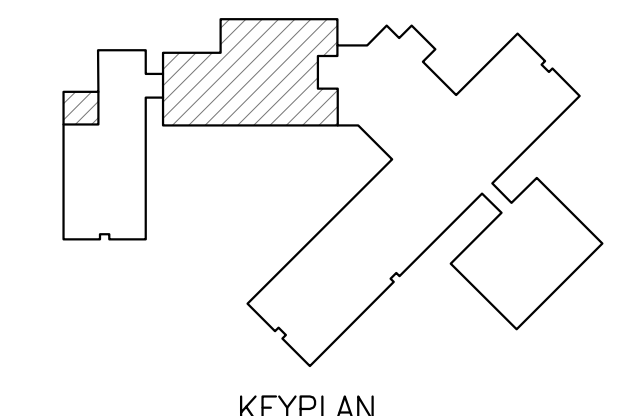
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01 ELEMENTARY FLOOR PLAN - PLUMBING

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



ELEMENTARY FLOOR PLAN - PLUMBING P2.01

PIPE SIZING REQUIREMENTS

- ALL FLOOR DRAINS AND FLOOR SINKS MUST HAVE TRAP PRIMERS. PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE MECHANICAL TYPE TRAP PRIMER (PPP INC. "OREGON #1" TYPE). CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. IN JURISDICTIONS WHERE PRESSURE ACTIVATED MECHANICAL PRIMERS ARE NOT ALLOWED, USE ELECTRONIC TRAP PRIMERS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. PROSET "TRAP GUARD" DEVICE MAY BE USED IN LIEU OF TRAP PRIMERS WHEN ALLOWED BY LOCAL CODE AUTHORITY HAVING JURISDICTION. BEFORE USING PROSET "TRAP GUARD" CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM LOCAL CODE AUTHORITY HAVING JURISDICTION AND PROVIDE COPIES TO ARCHITECT AND ENGINEER.
- AT ALL PUBLIC LAVATORIES A HOT WATER MANIFOLD WILL BE ROUTED PARALLEL TO HOT WATER RECIRC MAIN DOWN FULL SIZE INTO ONE SIDE OF CHASE AND WILL BE CONNECTED BACK TO HOT WATER RECIRC MAIN OUT OF OPPOSITE SIDE OF CHASE TO COMPLY WITH INTERNATIONAL ENERGY CODE (IECC) MAXIMUM ALLOWABLE HOT WATER PIPING LENGTH FROM MANIFOLD. (TAP SIZE: FOR 3/8", PIPING MAXIMUM LENGTH = 3 FEET; FOR 1/2" MAXIMUM LENGTH = 2 FEET)
- PIPING SIZE FOR WATER MAIN DROPS AND MANIFOLD IN CHASE OR WALL TO REMAIN FULL SIZE OF DROP INDICATED. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL LINE SIZE TO EACH FIXTURE.
- COORDINATE ALL WASTEWATER FLOOR PENETRATIONS AND PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. PIPING MAY BE OFFSET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS.
- ROUTE VENT FROM EACH FIXTURE TO HORIZONTAL VENT HEADER IN CHASE/WALL OR TO NEAREST COMMON VTR ABOVE CEILING. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL FIXTURE VENT SIZES. VENT HEADERS IN CHASE TO BE SIZED ACCORDINGLY: 1 1/2" VENT UP TO 6 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 60 FEET (EXCEPT FOR WATER CLOSETS), 2" VENT UP TO 20 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 120 FEET, 3" VENT UP TO 84 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 212 FEET AND 4" VENT UP TO 256 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 300 FEET. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH ARE TO BE INCREASED BY ONE PIPE SIZE. NO MORE THAN 1/3 OF THE CODE PERMITTED DEVELOPED LENGTH SHALL BE IN HORIZONTAL POSITION. EXTEND COMMON VENT UP THROUGH ROOF.
- ROUTE ALL VENTS TO NEAREST COMMON VENT THRU ROOF (VTR) TO MINIMIZE ROOF PENETRATIONS. VTR TO BE MINIMUM 15 FEET AWAY FROM OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

FIXTURE CONNECTION SCHEDULE

MARK	CW	HW	WASTE	DRAIN FIXTURE UNITS	VENT
WATER CLOSET (FLUSH VALVE)	1"	-	4"	6	2"
WATER CLOSET (TANK TYPE)	1/2"	-	4"	4	2"
URINAL	3/4"	-	2"	2	2"
PUBLIC LAVATORY*	3/8"	3/8"	2"	1	1 1/2" **
SINK ***	1/2"	1/2"	2"	2	1 1/2" **
SERVICE SINK	3/4"	3/4"	3"	2	2"
WASH FOUNTAIN *	1/2"	1/2"	2"	2	1 1/2" **
EWC	1/2"	-	2"	1	1 1/2" **
WASHING MACHINE	3/4"	3/4"	2"	2	2"
HOSE BIBB	3/4"	-	-	-	-
SHOWER ***	1/2"	1/2"	3"	2	1 1/2"
FLOOR DRAIN	-	-	3"	2	2"

* HOT AND COLD WATER REQUIRED UNLESS NOTED OTHERWISE ON PLUMBING FIXTURE SCHEDULE. PROVIDE TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.

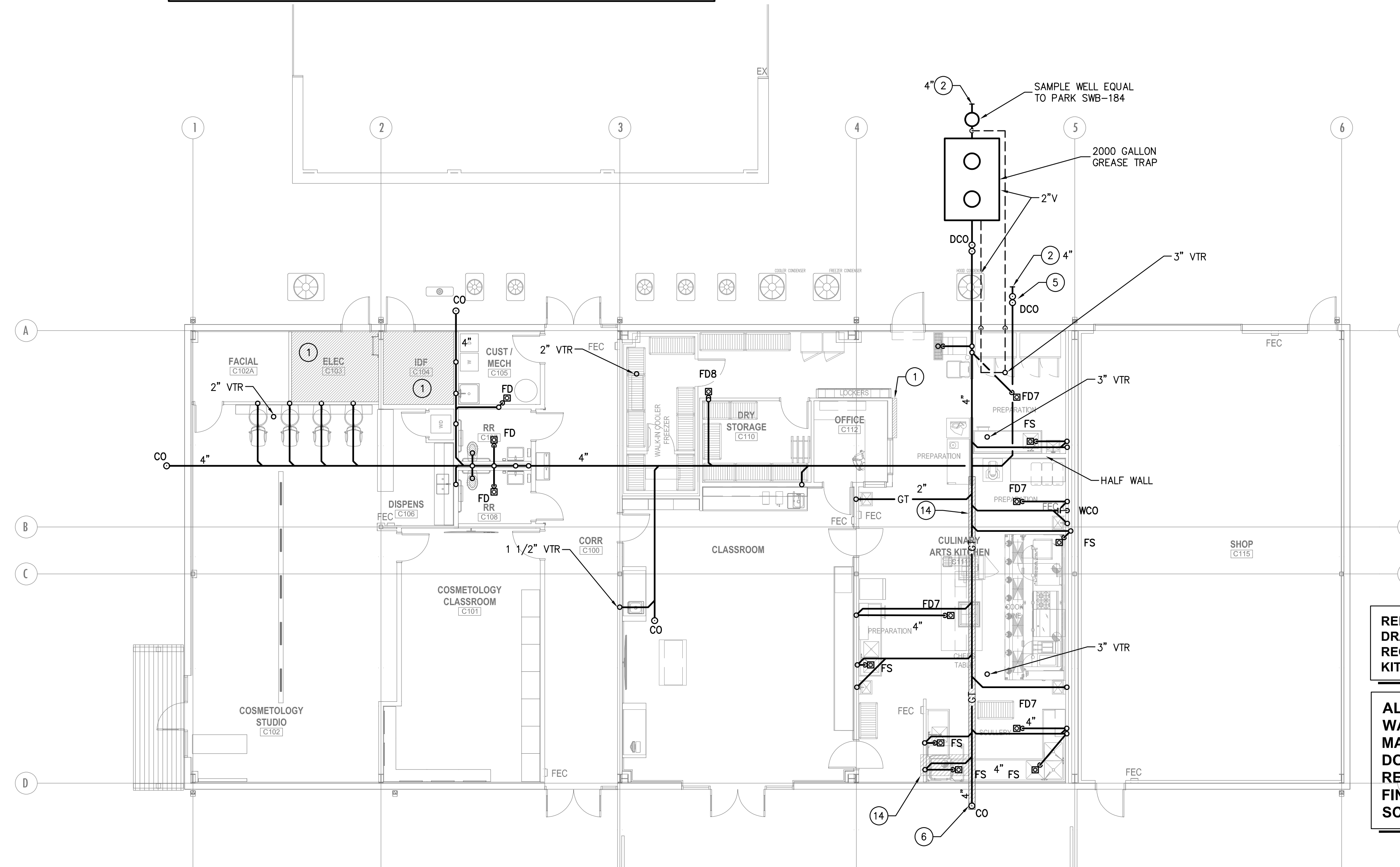
** IF HORIZONTAL VENT LENGTH EXCEEDS 20 FEET, INCREASE VENT SIZE TO TWO INCHES.

*** COMMERCIAL KITCHEN SINKS GET HOT WATER, REMAINDER TO BE PROVIDED WITH TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.

*** SHOWER VALVES TO BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC CONFORMING TO ASSE 1016.

KEYED NOTES

- THESE NOTES APPLY TO THIS SHEET ONLY
- DO NOT ROUTE ANY PIPING ABOVE THIS AREA.
 - CONNECT TO WASTEWATER (WW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
 - CONNECT TO COLD WATER (CW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
 - RE: CW BUILDING ENTRY DETAIL ON PLUMBING DETAIL SHEET(S).
 - RE: DOUBLE CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
 - RE: EXTERIOR CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
 - RE: INTERIOR CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
 - RE: WATER HEATER DETAIL ON PLUMBING DETAIL SHEET(S) FOR WATER HEATER AND HOT WATER RECIRCULATION PUMP PIPING.
 - RE: TYPICAL CONDENSATE STUB DETAIL ON PLUMBING DETAIL SHEET(S).
 - ROUTE HW DOWN ON ONE SIDE OF LAVATORIES, BACK UP ON OTHER SIDE OF LAVATORIES AND RECONNECT TO HW RESURC MAIN. (THIS IS DONE TO MEET MAXIMUM LENGTHS PER IECC).
 - CW DOWN TO IN-LINE RPZ BACKFLOW PREVENTOR ON WALL IN ACCESSIBLE LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT. ROUTE RELIEF FROM RPZ TO FLOOR SINK FOR ICEMAKER.
 - CONNECT TO FIRE LINE (F) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT.
 - RE: FIRE LINE RISER SUPPORT DETAIL ON PLUMBING DETAIL SHEET(S).
 - HATCHED AREA INDICATES PIPING WHICH MUST BE CAST IRON.



01 FLOOR PLAN - PLUMBING - WASTE
SCALE: 1/8" = 1'-0"

REFERENCE KITCHEN CONSULTANT DRAWINGS (FS SERIES) FOR ADDITIONAL REQUIREMENTS IN CULINARY ARTS KITCHEN C111 AND CLASS ROOM C113.

ALL UNDERGROUND WASTE WATER PIPING FROM DISH MACHINE TO A POINT 30' DOWNSTREAM TO BE CAST IRON. REMAINDER OF PIPING BELOW FINISHED FLOOR MAY BE SCHEDULE 40PVC.



REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION



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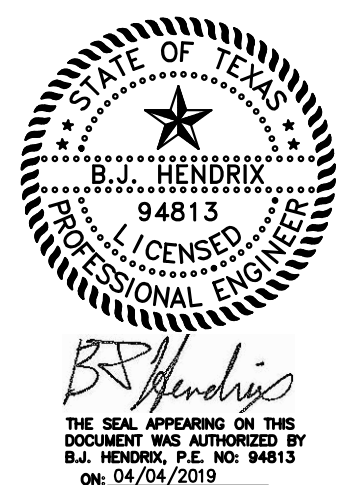
AIR DEVICE SCHEDULE										PDSCH		
MARK	NECK SIZE	FRAME SIZE	FRAME TYPE	VOLUME DAMPER	SUPPLY	RETURN	EXHAUST	MODEL	FLEX SIZE	MAXIMUM CFM		
A1	9 x 9	24 x 24	LAY-IN		●			PRICE MODEL SMD	6"φ	100		
A2	12 x 12	24 x 24	LAY-IN		●			PRICE MODEL SMD	8"φ	220		
A3	12 x 12	24 x 24	LAY-IN		●			PRICE MODEL SMD	10"φ	350		
A4	15 x 15	24 x 24	LAY-IN		●			PRICE MODEL SMD	12"φ	600		
A5	18 x 18	24 x 24	LAY-IN		●			PRICE MODEL SMD	14"φ	900		
								PRICE MODEL SMD				
B1	22 x 10	24 x 12	LAY-IN			●		PRICE MODEL 530TB	12"φ	700		
B2	22 x 22	24 x 24	LAY-IN			●		PRICE MODEL 530TB	18"φ	1400		
C1	6 x 6	15 x 15	SURFACE		●			PRICE MODEL SMD	6"φ	100		
C2	12 x 12	18 x 18	SURFACE		●			PRICE MODEL SMD	8"φ	220		
C3	12 x 12	18 x 18	SURFACE		●			PRICE MODEL SMD	10"φ	350		
								PRICE MODEL SMD				
D1	8 x 8	10 x 10	SURFACE	●			●	PRICE MODEL 630DF		250		
D2	12 x 12	14 x 14	SURFACE	●			●	PRICE MODEL 630DF		450		
E1	10 x 4	12 x 6	SURFACE	●	●			PRICE MODEL 620DAS	8"φ	150		
E2	12 x 6	14 x 8	SURFACE	●	●			PRICE MODEL 620DAS	10"φ	280		
E3	18 x 6	20 x 8	SURFACE	●	●			PRICE MODEL 620DAS	12"φ	400		
F1	20 x 10	24 x 12	LAY-IN			●	●	PRICE MODEL 530FF 2" FILTER GRILLE	12"φ	600		
F2	20 x 20	24 x 24	LAY-IN			●	●	PRICE MODEL 530FF 2" FILTER GRILLE	18"φ	1200		
T1	8"φ	24 x 24	LAY-IN		●			THERMAFUSER THFC	8"φ	220		
NOTES: 1. COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN. 2. ALL SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE. 3. ALL FLEX SHALL BE SIZED AS SCHEDULED UNLESS NOTED OTHERWISE. 4. ALL DIFFUSERS SHALL BE WHITE UNLESS NOTED OTHERWISE. COORDINATE EXACT COLOR/FINISH WITH ARCHITECT. 5. VERIFY FRAME TYPE WITH ACTUAL CEILING TYPE PRIOR TO PURCHASE OF AIR DEVICES. 6. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE. 7. RUN-OUTS AND DROPS FROM R/A MAIN TRUNKS SHALL BE AS FOLLOWS: UP TO 250 CFM USE 10" DIAMETER OR 10" x 8"; 251 CFM TO 450 CFM USE 12" DIAMETER OR 12" x 10"; 451 CFM TO 700 CFM USE 14" DIAMETER OR 12" x 12"; 701 CFM TO 1000 CFM USE 16" DIAMETER OR 14" x 16"; 1001 CFM TO 1400 CFM USE 18" DIAMETER OR 16" x 18", UNLESS SHOWN OTHERWISE. 8. INSULATE BACKS OF ALL AIR DEVICES. 9. PROVIDE PRICE PLASTER FRAME FOR ALL AIR DEVICES LOCATED IN GYP OR PLASTER CEILINGS. 10. AIR DEVICES LOCATED IN DAMP AREAS (SHOWERS/LOCKER ROOMS/TRAINING ROOMS) ARE TO BE OF THE SAME SIZE AND TYPE AS SHOWN ON THE AIR DEVICE SCHEDULE BUT MUST BE OF ALL ALUMINUM CONSTRUCTION. ALL DEVICES SCHEDULED TO BE ALUMINUM MUST BE ALUMINUM NO MATTER WHERE THEY ARE LOCATED. 11. TRANSITION TO AIR DEVICE NECK SIZE AS REQUIRED. 12. ALL LAY-IN AIR DEVICES ARE TO BE CONNECTED WITH FLEX DUCT. PROVIDE WITH MINIMUM 3" HIGH ROUND NECK OR SQUARE TO ROUND ADAPTER WITH 3" HIGH NECK FOR PROPER CONNECTION OF FLEX DUCT (SIZED PER SCHEDULE) TO AIR DEVICE. * PROVIDE INACTIVE SECTIONS OF LINEAR SLOTS WITH BLANK-OFF PLATES. * PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE CONTINUOUS APPEARANCE.												

GENERAL NOTES

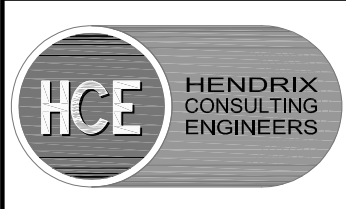
- A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
- B. CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
- C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, NATIONAL ELECTRICAL CODE, AGA, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT WITH THE AUTHORITY HAVING JURISDICTION.
- D. MECHANICAL CONTRACTOR TO COMPLETE A MECHANICAL/ELECTRICAL EQUIPMENT COORDINATION SHEET IN SPECIFICATION SECTION 20 00 00 AND SUBMIT COMPLETED FORM WITH EQUIPMENT SUBMITTAL AND PROVIDE A COMPLETED FORM TO THE ELECTRICAL CONTRACTOR.
- E. PROVIDE TRAP AND PROPER VENTING AT EACH A/C UNIT PER THE MANUFACTURER'S RECOMMENDATIONS. ROUTE CONDENSATE TO NEAREST CODE APPROVED DISPOSAL POINT.
- F. TRANSITION FROM DUCT SIZE SHOWN TO ROOF OPENING SIZE FOR EXHAUST FANS AND OTHER ROOF MOUNTED EQUIPMENT. ALLOW FOR CLEARANCE BETWEEN STRUCTURAL JOISTS.
- G. CONFIRM LOCATION AND MOUNTING HEIGHT OF EACH THERMOSTAT/SENSOR PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT, OWNER, MILLWORK, SWITCHES, EQUIPMENT, FURNITURE, ETC. PROVIDE INSULATED SUBBASE FOR EACH THERMOSTAT/SENSOR.
- H. PROVIDE ENGRAVED LABELS FOR ALL EQUIPMENT. LABEL ALL THERMOSTATS/SENSORS TO CORRESPONDING EQUIPMENT NUMBER. PROVIDE ENGRAVED ACCESS PANEL MARKERS ON THE CEILING GRID TO INDICATE ACCESS LOCATIONS FOR EQUIPMENT ABOVE CEILING.
- I. COORDINATE FRAMED OPENING THROUGH ROOF FOR EQUIPMENT. VERIFY SIZE AND METHOD WITH STRUCTURAL ENGINEER. PROVIDE ROOF SHOP DRAWING INDICATING SIZE AND LOCATION OF ROOF OPENINGS FOR COORDINATION PURPOSES.
- J. COORDINATE PLACEMENT AND SUPPORT OF ALL ROOF MOUNTED EQUIPMENT CURBS AND SUPPORTS WITH STRUCTURAL PRIOR TO INSTALLATION.
- K. RETURN AIR PLENUMS ON BACK OF AIR HANDLING UNITS TO BE FULL SIZE OF RETURN OPENING ON UNITS. PROVIDE MINIMUM 16" x 16" ACCESS DOOR IN RETURN PLENUM IN ACCESSIBLE LOCATION.
- L. AIR HANDLING UNITS MOUNTED ABOVE CEILING ARE TO BE INSTALLED TO ALLOW FOR MAXIMUM ACCESS ON ACCESS PANEL SIZES. CODE CLEARANCES MUST BE MAINTAINED. EQUIPMENT MUST BE INSTALLED SO THAT IT IS ACCESSIBLE FROM A LADDER THAT IS NO TALLER THAN THE CEILING, WITHOUT STANDING ON TOP STEP.
- M. WHERE STRUCTURAL BRIDGING IS REMOVED, RE-BRIDGE ON EACH SIDE OF JOIST. VERIFY WITH STRUCTURAL ENGINEER PRIOR TO REMOVING ANY BRIDGING.
- N. COORDINATE WITH ALL STRUCTURAL BRACING FOR ROUTING OF DUCT AND DIFFUSERS.
- O. BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.
- P. REFRIGERANT PIPING: THE REFRIGERATION SYSTEM SHALL BE INSTALLED COMPLETE AS A SYSTEM WITH ALL REFRIGERANT, OIL, VALVES, DEHYDRATORS, GAUGES AND CONTROLS AS REQUIRED FOR PROPER OPERATION OF THE SYSTEM. PIPING SHALL BE HARD DRAWN ACR REFRIGERANT PIPING WITH WROT FITTINGS IN ACCORDANCE WITH ARI STANDARDS. USE LONG RADIUS ELBOWS, INSULATE SUCTION LINES AND SEAL ALL CUT ENDS AND EDGES WITH ADHESIVE TO PROVIDE AN AIR TIGHT SEAL. USE 3/4" ARMAFLEX AP II INSULATION. REFRIGERANT PIPING IN INACCESSIBLE SPACES, SUCH AS WALL CAVITIES, OR IN UNDERGROUND SLEEVES IS TO BE SOFT DRAWN COPPER WITH NO FITTINGS IN THE INACCESSIBLE AREAS. ALL BENDS IN SOFT COPPER ARE TO BE MADE WITH REFRIGERATION TUBING BENDER. INSTALL COMBINATION SIGHT GLASS/MOISTURE INDICATOR NEAR LIQUID LINE CONNECTION TO OUTDOOR UNIT.
- Q. FIRE/SMOKE AND/OR FIRE DAMPERS: INSTALL DAMPERS AT ALL DUCT PENETRATIONS OR RATED WALLS, TUNNELS AND CEILINGS. ALL DAMPERS TO BE OUT OF AIRSTREAM TYPE. DAMPERS TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE FACTORY WALL SLEEVE AND ANGLE KIT. ACCESS PANEL TO BE PROVIDED IN DUCT FOR ACCESS TO FUSIBLE LINK AND FOR INSPECTION AND MAINTENANCE. VERIFY THE EXACT LOCATION OF ALL RATED WALLS, TUNNELS AND CEILINGS WITH ARCHITECTURAL DRAWINGS. COMBINATION FIRE/SMOKE DAMPERS TO BE INSTALLED IN ALL SMOKE WALLS AND RATED EGRESS WALLS.
- R. COORDINATE LOCATION AND MOUNTING TYPE OF ALL CEILING AIR DEVICES IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- S. ROOFTOP MOUNTED EQUIPMENT TO BE PROVIDED WITH FACTORY FULL PERIMETER SLOPED CURBS TO MATCH ROOF FOR EACH UNIT. ALL OTHER ROOF MOUNTED EQUIPMENT REQUIRING A CURB LESS THAN 30" IN ANY DIMENSION TO BE PROVIDED WITH FULL PERIMETER CURB. ALL CURBS AND ROOF SUPPORTS TO ALLOW FOR ROOF SLOPE SO EQUIPMENT WILL SIT LEVEL. TOP OF CURB TO BE A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE OR 8" ABOVE TOP OF CRICKET IF APPLICABLE.
- T. INSTALL CLEAN SET OF FILTERS THROUGHOUT AT COMPLETION OF PROJECT. ANY UNITS THAT ARE OPERATED DURING CONSTRUCTION SHALL HAVE FILTER MEDIA (FIBERBOND DUAL-PLY DUSTLOK MEDIA) PLACED OVER THE EXTERIOR OF RETURN AIR GRILLES. MEDIA SHALL BE CHANGED AS FREQUENTLY AS REQUIRED TO KEEP DUCTWORK CLEAN. WHEN RETURN AIR FILTERS ARE LOCATED AT UNIT, PROVIDE INSULATED FILTER RACK SUITABLE FOR 2" THICK, FACTORY STANDARD FILTER SIZES, THAT IS AIRTIGHT WITH HINGED ACCESS DOOR AND LATCH, UNLESS SUCH A RACK IS INTEGRAL TO UNIT CONSTRUCTION.
- U. ALL MECHANICAL EQUIPMENT OR GROUPS OF EQUIPMENT SERVING A COMMON AREA AND DISCHARGING OVER 2000 CFM OR SERVING EGRESS PATHWAYS SHALL HAVE SMOKE DETECTORS LOCATED IN RETURN AND DISCHARGE AIR DUCTS, AS REQUIRED BY CODE AND LOCAL AHJ. THE MECHANICAL CONTRACTOR IS TO PROVIDE, INSTALL AND WIRE SMOKE DETECTORS COMPLETE WITH REMOTE TEST SWITCH INDICATOR UNLESS THE BUILDING HAS A FIRE ALARM SYSTEM. WHEN BUILDING HAS A FIRE ALARM SYSTEM THE ELECTRICAL/FIRE ALARM CONTRACTOR IS TO PROVIDE AND WIRE THE DUCT DETECTORS BACK INTO THE FIRE ALARM CONTROL PANEL AND PROVIDE A RELAY AT THE UNIT FOR LOCAL SHUTDOWN. MECHANICAL CONTRACTOR (CONTROLS CONTRACTOR) IS TO WIRE HIS CONTROL CIRCUIT THROUGH THE RELAY CONTACTS. REFERENCE MECHANICAL AND ELECTRICAL GENERAL NOTES, SCHEDULES, PLANS AND SPECIFICATIONS FOR MORE INFORMATION.
- V. PROVIDE INTERNALLY LINED RETURN AIR BOOT WITH WITH NINETY DEGREE ELBOW OR TEE FITTING ON BACK OF ALL RETURN AIR GRILLES UNLESS OTHERWISE NOTED. REFERENCE DETAIL SHEETS AND SPECIFICATIONS FOR MORE INFORMATION.
- W. PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.
- X. SEAL AROUND ALL DUCTWORK AND PIPING AT PENETRATIONS THROUGH SOUND WALLS WITH ACOUSTICAL SEALANT.
- Y. ALL DUCTS 30" AND LARGER IN ANY DIMENSION TO HAVE DUCTMATE FITTINGS.
- Z. ALL ACCESS DOORS SHALL BE INSTALLED IN EASILY ACCESSIBLE LOCATIONS. RELOCATE ANY ACCESS DOOR THAT IS NOT INSTALLED IN THIS MANNER. THIS SHALL BE DONE AT NO ADDITIONAL COST TO OWNER. INSTALL MINIMUM 12" x 12" HINGED ACCESS DOORS WITH CAM LOCKS AT THE END OF ALL DUCT RUNS, AT 20' INTERVALS ALONG LENGTH OF RUN, AND ON EACH SIDE OF ELBOWS WITH TURNING VANES. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
- BB. COORDINATE LOCATION OF DUCTWORK WITH LOCATION AND DEPTH OF ALL LIGHT FIXTURES PRIOR TO INSTALLATION.
- CC. MECHANICAL CONTRACTOR TO HAVE STAMPED AND REVIEWED DUCT SHOP DRAWINGS PRIOR TO INSTALLATION OF ANY DUCTWORK IN FIELD.
- DD. ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC, PLUMBING, SPRINKLER PIPING OR DUCTWORK THAT CAN ENTER AN ELECTRIC ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC ROOM ABOVE ENTRY DOOR.
- FF. ALL ROOF MOUNTED MECHANICAL EQUIPMENT MUST BE LOCATED A MINIMUM OF 10' AWAY FROM THE EDGE OF THE ROOF OR A CHANGE IN ROOF ELEVATION THAT IS GREATER THAN 30". PER OSHA REQUIREMENTS, IF ROOF MOUNTED EQUIPMENT MUST BE LOCATED CLOSER TO THE EDGE OF THE ROOF THAN 10', THERE MUST BE A PARAPET THAT IS A MINIMUM OF 42" TALL OR PROVIDE AN OSHA APPROVED SAFETY RAIL. REFERENCE THE LATEST OSHA REGULATIONS FOR MORE INFORMATION AND PROVIDE LATEST REQUIREMENTS.
- GG. SEAL AROUND ALL DUCTWORK AND PIPING AT PENETRATIONS THROUGH RATED WALLS WITH FIRE SEALANT. ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED ACCORDING TO THE FIRE SEALANT MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUBMIT ON U.L. SYSTEM TO BE USED FOR EACH TYPE OF PENETRATION, POST A COPY OF INSTALLATION INSTRUCTIONS AT JOB SITE ACCESSIBLE TO ALL WORKERS PERFORMING WORK.
- HH. ALL OPENINGS OF DUCTWORK AND MECHANICAL EQUIPMENT MUST BE COVERED WITH PLASTIC AND TIGHTLY SEALED TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM ENTERING SYSTEMS. THIS INCLUDES EQUIPMENT AND DUCTWORK STORED ON SITE. IF THE MECHANICAL EQUIPMENT IS OPERATED PRIOR TO ACCEPTANCE OF THE BUILDING BY OWNER, ALL OUTLET AND INLETS OF THE SYSTEM MUST BE PROTECTED WITH ROLLED FILTER MEDIA EQUAL TO (FIBERBOND DUAL-PLY DUSTLOK MEDIA). UNITS MUST BE SHUT DOWN WHEN PAINTING, SANDING AND SIMILAR CONSTRUCTION OPERATIONS ARE BEING PERFORMED. SYSTEMS THAT ARE OPERATED DURING CONSTRUCTION MUST BE CLEANED TO NEW CONDITION BEFORE FINAL PAYMENT WILL BE APPROVED. ITEMS TO BE CLEANED INCLUDE: WHOLE DUCT SYSTEM, AIR DEVICES, BLOWERS, MOTORS, UNIT CASING, EVAPORATOR COILS, CONDENSER COILS AND ALL OTHER COMPONENT EFFECTED BY THE OPERATION OF THE SYSTEMS.
- JJ. ALL SUPPLY BRANCH DUCTS ARE TO HAVE BALANCING DAMPERS WITH MANUAL LOCKING QUADRANT OPERATORS. PROVIDE STAND-OFF BRACKETS EQUIVALENT TO INSULATION THICKNESS. PROVIDE BALANCING DAMPERS IN OTHER DUCT SYSTEMS AS REQUIRED TO PROPERLY BALANCE SYSTEMS. SINGLE BLADE DAMPERS ARE ACCEPTABLE IN DUCTS 14" ROUND OR 14" TALL, LARGER DUCTS TO HAVE MULTIPLE BLADE DAMPERS. ALL DAMPER BLADES AND HARDWARE ARE TO BE FABRICATED OF SUFFICIENT GAGE AND HAVE REINFORCEMENTS AS REQUIRED TO PREVENT VIBRATION.
- II. OUTSIDE AIR TO THE BUILDING IS CALCULATED BASED ON THE USE OF BI-POLAR ION GENERATOR AIR PURIFIERS FOR REDUCING INDOOR CONTAMINATES TO ACCEPTABLE LEVELS, IN ACCORDANCE WITH SECTION 403.3 OF THE INTERNATIONAL MECHANICAL CODE. THE OUTDOOR AIR QUANTITIES INDICATED IN THE SCHEDULES EXCEEDS THE MINIMUM REQUIRED OUTDOOR AIR PER SECTION 403.3, AND PROVIDES FOR BUILDING PRESSURIZATION AND MAKEUP FOR BUILDING EXHAUST.

M/P ABBREVIATION SCHEDULE			
AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE	MAU	MAKEUP AIR UNIT
AFB	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MCC	MECHANICAL CONTRACTOR
AUTO	AUTOMATIC	MBH	1000 BTU PER HOUR
BLDG	BUILDING	MCH	MECHANICAL
AUH	AIR HANDLING UNIT	MH	MANHOLE
BD	BALANCE DAMPER	MN	MINIMUM
BEF	BELOW FINISHED FLOOR	MSC	MISCELLANEOUS
BULD	BUILDING	MTD	MOUNTED
BOF	BOTTOM OF DUCT	MUD	MOTOR OPERATED DAMPER
BOF	BOTTOM OF PIPE	MU	MOTOR UNIT
BF	BOOSTER FAN	NIC	NOT IN CONTRACT
CLG	CEILING	N.O.	NORMALLY OPEN
CLG	CEILING CLEARANCE	N.O.	NORMALLY CLOSED
CO	CLEANOUT	N.T.	NOT TO SCALE
CO	COLUMN	NBS	NON-BURNING
CONC	CONCRETE	OD	OUTDOOR AIR
CONTR	CONTRACTOR	OP	OPPOSED BLADE DAMPER
CW	COLD WATER	OS	ON CENTER(S)
CONN	CONNECTION	OSG	OVERFLOW
CU	CONDENSING UNIT	ORL	OVERFLOW RAINLEADER
CONV	CONVERSION	OH	OUTSIDE AIR HOOD
CHS	CHILLED WATER SUPPLY	PC	PLUMBING CONTRACTOR
CHS	CHILLED WATER RETURN	PH	PHASE
DIAM	DIAMETER	PLUMB	PLUMBING
DNW	DOWN	R/A	RETURN AIR
DWG	DRAWING	RE	REFERENCE/REFER TO
DN	DUCT HEATER	RES	REFRIGERANT
E/A	EXHAUST AIR	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQD	REQUIRED
EF	EXHAUST FAN	RHP	RADIANT HEAT PANEL
FLG	FLOOR	RM	ROOM
EQU	EQUAL	RTU	ROOFTOP UNIT
EQUIP	EQUIPMENT	R/A	REPLY AIR
EX	EXISTING	SCH	SCHEDULE
EXH	EXHAUST	SC	STATIC PRESSURE
EXT	EXTERNAL STATIC PRESSURE	SP	SPECIFICATION
ENR	ENERGY RECOVERY VENTILATOR	SP	STORM DRAIN
EQ	EQUAL	SD	SUPPLY FAN
F	FLOOR	SP	STATIC PRESSURE
F00	FLOOR CLEAN OUT	TSP	TOTAL STATIC PRESSURE
F01	FLOOR FLEXIBLE	TRP	TRIP
FLR	FLOOR/FLOORING	UNL	UNLESS OTHERWISE NOTED
GA	GAUGE	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UH	UNIT HEATER
GEN	GENERAL	V	VENT (PLUMBING)
GIP	GYP/SM BOARD	V	VOLTAGE (ELECTRICAL)
HP	HEAD PUMP	YR	VENT THROUGH ROOF
H	HEAD	W	WITH
HT	HOT WATER	W/O	WITHOUT
HU	HOT WATER	WSP	WATERPROOF
HWC	HOT WATER CIRC	WT	WEIGHT
HWR	HOT WATER	WTR	WATER
HWR	HEATING WATER RETURN	WV	WASTE WATER
HWR	HEATING WATER SUPPLY	WCO	WALL CLEANOUT
LOC	LOCATION	WH	WATER HEATER

PLUMBING LEGEND		
SYMBOL	ABB.	DESCRIPTION
---	CW	COLD WATER PIPING
---	HW	HOT WATER PIPING
---	HWR	HOT WATER RETURN PIPING
---	WW	WASTE WATER
---		VENT PIPING
---	T	TEMPERED WATER
---	G	GAS PIPING
---	F	FIRE LINE
---	GT	GREASE TRAP LINE
---	A	COMPRESSED AIR PIPING
---	D	RELIEF OR CONDENSATE DRAIN PIPING
---	SD	STORM DRAIN
---	RL	RAIN LEADER
---	ORL	OVERFLOW RAIN LEADER
---		FULL PORT BALL PIPE ISOLATION VALVE
---	HB	HOSE BIBB/WALL HYDRANT
---		UNION
---	FD/FS	FLOOR DRAIN/FLOOR SNK
---	HD	HUB DRAIN
---	CO	CLEAN OUT
---		DOUBLE CLEAN OUT
---	WCO	WALL CLEAN OUT
---		GAS COCK
---		BALANCE VALVE
---		CHECK VALVE
---		POINT OF CONNECTION
---		GAS PRESSURE REGULATOR



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Brady Independent School District
Bond 2018
 Brady, Texas

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BRADY ELEMENTARY SCHOOL CASSETTE SCHEDULE												
MARK	MODEL #	Manufacturer	Piping Limits		Unit Type	NOMINAL TONS	CFM	SEER	VOLT-PH	MCA (A)	MOP (A)	WEIGHT (lbs)
HP-E1	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2.5	1112	18	208/230-1	16.5	25	172
CC-E1	FXFQ30TVJU		820	98	3' x 3' Cassette				208/230-1	1.3	15	58
HP-E2	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2	777	18	208/230-1	16.5	25	172
CC-E2	FXFQ24TVJU		820	98	3' x 3' Cassette				208/230-1	0.7	15	51
HP-E3	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2.5	1112	18	208/230-1	16.5	25	172
CC-E3	FXFQ30TVJU		820	98	3' x 3' Cassette				208/230-1	1.3	15	58
HP-E4	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2	777	18	208/230-1	16.5	25	172
CC-E4	FXFQ24TVJU		820	98	3' x 3' Cassette				208/230-1	0.7	15	51
HP-E5	RX09RMVJU	Daikin	Total	Vertical	Outdoor	0.75	317	18	208/230-1	9	15	60
CC-E5	FXZQ09TAVJU		66	49	2' x 2' Cassette				208/230-1	0.3	15	36.4
HP-E6	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2	777	18	208/230-1	16.5	25	172
CC-E6	FXFQ24TVJU		820	98	3' x 3' Cassette				208/230-1	0.7	15	51
HP-E7	RX09RMVJU	Daikin	Total	Vertical	Outdoor	0.75	317	18	208/230-1	9	15	60
CC-E7	FXZQ09TAVJU		66	49	2' x 2' Cassette				208/230-1	0.3	15	36.4
HP-E8	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2.5	1112	18	208/230-1	16.5	25	172
CC-E8	FXFQ30TVJU		820	98	3' x 3' Cassette				208/230-1	1.3	15	58
HP-E9	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2	777	18	208/230-1	16.5	25	172
CC-E9	FXFQ24TVJU		820	98	3' x 3' Cassette				208/230-1	0.7	15	51
HP-E10	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2.5	1112	18	208/230-1	16.5	25	172
CC-E10	FXFQ30TVJU		820	98	3' x 3' Cassette				208/230-1	1.3	15	58
HP-E11	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2	777	18	208/230-1	16.5	25	172
CC-E11	FXFQ24TVJU		820	98	3' x 3' Cassette				208/230-1	0.7	15	51
HP-E12	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2.5	1112	18	208/230-1	16.5	25	172
CC-E12	FXFQ30TVJU		820	98	3' x 3' Cassette				208/230-1	1.3	15	58
HP-E13	RXTQ36TAVJ9	Daikin	Total	Vertical	Outdoor	2	777	18	208/230-1	16.5	25	172
CC-E13	FXFQ24TVJU		820	98	3' x 3' Cassette				208/230-1	0.7	15	51

- Outdoor Unit Notes:**
1. Provide Field Installed Hail Guard Accessory
 2. Units shall meet or exceed Min Scheduled SEER Values per AHRI 210/240

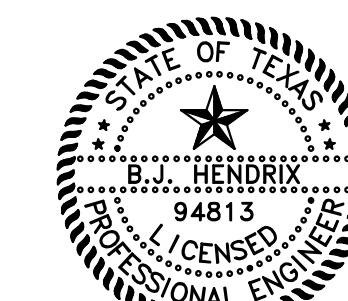
- Indoor Fan Coil Notes:**
1. Provide factory mounted condensate pumps on all indoor units
 2. Provide wired thermostats
 3. Provide 10 year parts, 10 year compressor warranty
 4. Provide Branch duct connection
 5. Provide Itouch central controller and BACnet
- *For pricing contact Direct Expansion Solutions at (210) 215-5845

BRADY ELEMENTARY SCHOOL OUTSIDE AIR SCHEDULE																								
	UNIT MARK	UNIT TYPE	MODEL NUMBER	TYPE OF UNIT	COOL EAT DB/WB	TOTAL BTUH	SENSIBLE BTUH	COOL LAT DB/WB	HEAT EAT DB	HEAT BTUH	HEAT LAT DB	IEER	SEER	VOLTAGE	PHASE	CFM	MCA	MOCP	WEIGHT LBS		HEAT KW	VOLTAGE PHASE	MCA	MOCP
OA Unit	FCU-OSA-E1	OA8	FXMQ96MFVJU	OUTSIDE AIR UNIT	105.0 / 78.0	73995	46980	55.0 / 54.0	23	40165	70	N/A	N/A	208-230	1	1236	4.1	15	271	Electric Heat	7 KW	208/1	42.1	45
Cond. Unit	HRU-OSA-E1	CU8	RXYQ96TATJU	Heat Pump	95 amb	96000	92000	N/A	17	103000	N/A	27.3	N/A	208-230	3	5827	36.3	45	525					
OA Unit	FCU-OSA-E2	OA8	FXMQ96MFVJU	OUTSIDE AIR UNIT	105.0 / 78.0	73995	46980	55.0 / 54.0	23	40165	70	N/A	N/A	208-230	1	1236	4.1	15	271	Electric Heat	7 KW	208/1	42.1	45
Cond. Unit	HRU-OSA-E2	CU8	RXYQ96TATJU	Heat Pump	95 amb	96000	92000	N/A	17	103000	N/A	27.3	N/A	208-230	3	5827	36.3	45	525					

- OA Processing Units:**
1. Provide BRC1E73 Navigation Stat for all FCU with Auto Change over and Dual Heat and Cool Setpoints
 2. Provide factory mounted/field installed condensate pump for the indoor unit
 3. Provide 10 year parts warranty covering fan coil unit and thermostats
 4. Provide AHU with ECM Motor
 5. Provide field mounted 2" filter rack accessory for FXMQ series
 6. Shall have side service access in the horizontal position to blower assembly, motor, coil and eev
 7. VRV supplier to include SCR heat package in supply duct of OSA unit, Electric Heat will require it's own power supply. Reference schedule.
 8. LAT on OSA Fan Coil shall be set at 55 Degrees in Cooling and 80 Degrees in Heating
 9. Field installed Hail Guard metal expanded mesh, wire guard not acceptable
 10. Provide Itouch central controller and BACnet

BRADY HIGH SCHOOL CAREER CENTER OUTSIDE AIR SCHEDULE																								
	UNIT MARK	UNIT TYPE	MODEL NUMBER	TYPE OF UNIT	COOL EAT DB/WB	TOTAL BTUH	SENSIBLE BTUH	COOL LAT DB/WB	HEAT EAT DB	HEAT BTUH	HEAT LAT DB	IEER	SEER	VOLTAGE	PHASE	CFM	MCA	MOCP	WEIGHT LBS		HEAT KW	VOLTAGE PHASE	MCA	MOCP
OA Unit	FCU-OSA-H1	OA8	FXMQ96MFVJU	TSIDE AIR U	105.0 / 78.0	73995	46980	55.0 / 54.0	23	40165	70	N/A	N/A	208-230	1	1236	4.1	15	271	Electric Heat	7 KW	208/1	42.1	45
Cond. Unit	HRU-OSA-H1	CU8	RXYQ96TATJU	Heat Pump	95 amb	96000	92000	N/A	17	103000	N/A	27.3	N/A	208-230	3	5827	36.3	45	525					

- OA Processing Units:**
1. Provide BRC1E73 Navigation Stat for all FCU with Auto Change over and Dual Heat and Cool Setpoints
 2. Provide factory mounted/field installed condensate pump for the indoor unit
 3. Provide 10 year parts warranty covering fan coil unit and thermostats
 4. Provide AHU with ECM Motor
 5. Provide field mounted 2" filter rack accessory for FXMQ series
 6. Shall have side service access in the horizontal position to blower assembly, motor, coil and eev
 7. VRV supplier to include SCR heat package in supply duct of OSA unit, Electric Heat will require it's own power supply. Reference schedule.
 8. LAT on OSA Fan Coil shall be set at 55 Degrees in Cooling and 80 Degrees in Heating
 9. Field installed Hail Guard metal expanded mesh, wire guard not acceptable
 10. Provide Itouch central controller and BACnet



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REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION



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Brady Independent School District
Bond 2018
 Brady, Texas

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FAN SCHEDULE										EFSCH
MARK NO.	GREENHECK MODEL NO.	CFM	S.P.	RPM	DRIVE	H.P.	VOLT/PH	WATTS OR AMPS	ACCESSORIES	
ELEMENTARY										
EF-E1	CUE-080-VG	150	.375"	1278	DIRECT	1/10	120/1	--	12	
EF-E2	CUE-101-VG	750	.375"	1182	DIRECT	1/4	120/1	--	12	
EF-E3	CUE-101-VG	900	.375"	1316	DIRECT	1/4	120/1	--	12	
HIGH SCHOOL										
EF-1	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	
EF-2	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	
EF-3	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	REFERENCE FOOD SERVICE PLANS	
EF-4	CUE-099-VG	600	.375"	1178	DIRECT	1/10	120/1	--	13	
EF-5	CUE-090-VG	225	.375"	1181	DIRECT	1/10	120/1	--	12	
EF-6	CUE-060-VG	100	.375"	1661	DIRECT	1/15	120/1	--	13	
EF-7	AER-E20C-630-VG	3000	.25"	1033	DIRECT	3/4	120/1	--	14, 23	
EF-8	CUE-060-VG	100	.375"	1661	DIRECT	1/15	120/1	--	13	
DBF-1	TJERNLUND LB2	160			DIRECT		120/1	50W/.5A	22	

STANDARD NOTES - APPLIES TO ALL FANS

A. BALANCE ALL FANS TO ACTUAL CFM SHOWN ON FLOOR PLANS.

B. BEE SCREEN.

C. FANS INSTALLED ON METAL STANDING SEAM ROOFS: ROOF CURB IS TO BE FURNISHED, INSTALLED, FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO COORDINATE SIZE AND LOCATION. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.

D. FANS INSTALLED ON BUILT-UP ROOF: ROOF CURB IS TO BE FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO FURNISH AND INSTALL ROOF CURB AND COORDINATE LOCATION. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.

E. FACTORY DISCONNECT.

F. PROVIDE ALL EXHAUST FANS AND MAKE-UP AIR FANS WITH A PARALLEL BLADE DAMPER WITH HEAVY DUTY MOTORIZED ACTUATOR (MATCH FAN VOLTAGE) UNLESS SPECIFICALLY NOTED OTHERWISE. ELECTRICAL CONTRACTOR TO TIE DAMPER ACTUATOR IN TO FAN POWER. PROVIDE TIME DELAY RELAY OR END SWITCH ONLY IF RECOMMENDED BY MANUFACTURER ON LARGER FANS. PROVIDE TRANSFORMER IF REQUIRED. MOTORIZED DAMPER NOT REQUIRED IF THE FAN HAS AN INTEGRAL BACKDRAFT DAMPER.

G. UNIT WEIGHT LESS THAN 100 LBS, UNLESS NOTED OTHERWISE.

H. COORDINATE ALL FINAL FAN LOCATIONS AND FRAMING WITH STRUCTURAL.

I. ALL ALTERNATE MANUFACTURER'S FANS MUST OPERATE WITH CFM, RPM AND HP RANGE AS FANS LISTED ABOVE TO ALLOW FLEXIBILITY. FANS MAY NOT BE DOWN SIZED.

J. FAN SPEED CONTROL (MOUNTED UNDER DOME ON ROOF FANS OR NEXT TO CABINET FANS FOR ALL DIRECT DRIVE FANS).

K. DUCT DROPS ARE TO BE FULL SIZE OF DAMPER OR SIZED AT .05" SP PER 100 FT WHICHEVER IS GREATER OR AS SPECIFICALLY NOTED.

L. POWDER COATED METAL IS NOT ALLOWED TO BE USED IN LIEU OF GALVANIZED UNLESS SPECIFICALLY SCHEDULED.

M. EXHAUST FANS / OUTLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKES OR AS REQUIRED BY LOCAL CODES.

ACCESSORIES AND NOTES (ONLY PROVIDE ACCESSORIES LISTED IN SCHEDULE ABOVE)

- UPBLAST GREASE FAN ACCESSORIES: FAN TO BE UL AND GUL LISTED FOR GREASE REMOVAL. HEAT BAFFLE, BIRD GUARD, HINGE KIT, DRAIN CONNECTION, GREASE TRAP AND VENTED CURB EXTENSION (MUST MEET THE NFPA 96 REQUIREMENT FOR A 40' DISCHARGE HEIGHT), PROVIDE WITH SEPARATE CURB FROM ANY SUPPLY FAN.
- KITCHEN SUPPLY FAN GREENHECK ARRANGEMENT "DB" ACCESSORIES: EXHAUST FAN AND SUPPLY FAN TO BE MOUNTED ON SEPARATE CURBS AND PROVIDE MOPPED IN EQUIPMENT SUPPORT RAIL WITH GALVANIZED UNISTRUT SUPPORT FOR WEATHER HOOD, MOTORIZED INTAKE DAMPER, SPACER SECTION (TO MAINTAIN 10 FEET SEPARATION FROM EXHAUST FAN), FILTER SECTION THAT ACCOMMODATES 2" FILTERS, WEATHER HOOD, SUPPLY FAN INTERLOCKED TO RUN WITH KITCHEN EXHAUST FAN. KITCHEN EXHAUST FAN IS TO RUN AND SUPPLY FAN IS TO GO OFF IN THE EVENT THAT A FIRE IS DETECTED. FURNISH WITH REMOTE OR FAN CASING MOUNT PREWIRED KITCHEN FAN CONTROL CENTER WITH STARTERS, DISCONNECTS, CONTROL TRANSFORMERS, AND SINGLE POINT ELECTRICAL CONNECTION. ELECTRICAL CONTRACTOR TO MAKE ALL CONTROL AND LINE VOLTAGE TERMINATIONS AND FEED THROUGH CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. 120 VOLT CONTROL VOLTAGE FOR HOOD FAN PACKAGE IS TO BE OBTAINED FROM HOOD LIGHTING CIRCUIT. PROVIDE HOOD MOUNTED SWITCH FOR CONTROL OF EXHAUST AND SUPPLY FANS OR AS DIRECTED BY OWNER.
- DIRECT FIRED GAS HEAT.
- ELECTRIC HEAT.
- PERFORATED BAFFLE INSTALLED AT INLET.
- GRAVITY BACK DRAFT DAMPER.
- RADIATION DAMPER (CEILING MOUNTED FANS).
- COMBINATION NEOPRENE / SPRING VIBRATION ISOLATION.
- INLET GUARD.
- BELT GUARD.
- MAGNETIC MOTOR STARTER.
- SWITCHED WITH LIGHTS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS AND APPURTENANCES.
- SWITCHED BY SPRING WOUND TIMER (1 HR MAX) PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
- SWITCHED BY WALL SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
- SWITCHED BY HOOD MOUNTED SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR.
- SWITCHED BY THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
- CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
- 120V/1PH MOTORIZED DAMPER FOR INLINE FAN TIED IN TO FAN POWER.
- EXPLOSION PROOF FAN, WIRE TO RUN CONTINUOUSLY
- PERFORATED BAFFLE INSTALLED AT INLET.
- INTERLOCKED WITH DISHWASHER.
- DRYER BOOSTER FAN. PROVIDE ALL CONTROLS AND INTERLOCKING WIRING REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
- SIDEWALL PROPELLER FAN PROVIDE WITH HOUSING, MOTORIZED BACKDRAFT DAMPER, INTEGRAL DISCONNECT, MOTOR SIDE GUARD AND TRANSITIONS AS REQUIRED TO CONNECT TO WALL LOUVER.

BRADY HIGH SCHOOL CAREER CENTER MULTI-POSITION SCHEDULE			
		MP2	MP4
MINIMUM CFM		800	1520
MINIMUM SENSIBLE MBH		16900	32700
MINIMUM TOTAL MBH		24000	48000
MINIMUM SEER		16	16
INDOOR UNIT MCA		4.9	6.5
INDOOR UNIT MOP		15	15
OUTDOOR UNIT MCA		16.5	29.1
OUTDOOR UNIT MOP		25	35
MOTOR HP FAN		0.5	0.75
INDOOR UNIT VOLT/PHASE		208-230/1	208-230/1
OUTDOOR UNIT VOLT/PHASE		208-230/1	208-230/1
DAIKIN	Indoor Unit (Multi-Position AHU)	FXTQ24TAVJUA	FXTQ48TAVJUA
	Outdoor Unit	RXTQ36TAVJ9	RXTQ48TAVJU
INDOOR UNIT WEIGHT		115	150
OUTDOOR UNIT WEIGHT		172	176

UNIT MARK	UNIT TYPE	O/A CFM			ACCESSORIES AND NOTES
		RAW	TEMPERED	NEUTRAL	
AHU/HP-H1	MP4			250	1
AHU/HP-H2	MP2			150	1
AHU/HP-H3	MP4			400	1
AHU/HP-H4	MP2			200	1
AHU/HP-H5	MP2			200	1

ALL SPLIT SYSTEMS ON THIS PROJECT ARE TO USE R410A REFRIGERANT

UNIT TYPE BREAKDOWN

H = SPLIT HEAT PUMP, C = SPLIT ELECTRIC HEAT, F = SPLIT GAS HEAT

STANDARD NOTES

- SOME UNITS SHOWN ON THE MASTER SCHEDULE(S) MAY NOT BE USED ON THIS JOB.
- SEE SPECIFICATIONS FOR STANDARD ACCESSORIES, FEATURES AND CONTROLS REQUIRED.
- ALL GROSS CAPACITIES LISTED ARE AT STANDARD ARI CONDITIONS (80/67/95) WITH STANDARD AIR FLOW.
- BALANCE TO PROVIDE CFM AS SHOWN ON PLANS.
- ELECTRIC STRIP HEATERS ARE NOT REQUIRED
- ECM DRIVE ON AHU
FACTORY WIRED TO PROVIDE TRUE, INHERENTLY BALANCED THREE PHASE ELECTRICAL LOAD CHARACTERISTICS.
- PROVIDE LOW AMBIENT CONTROL KIT TO ALLOW COOLING OPERATION DOWN TO 23 DEGREES FAHRENHEIT
- PROVIDE ELECTRONIC TVX'S ON ALL SPLIT SYSTEM UNITS AT INDOOR COIL.
- PROVIDE INSULATED FILTER RACKS WITH HINGED ACCESS DOOR FOR ALL UNFILTERED OUTSIDE AIR DUCTS AT CONNECTION TO UNIT OR RETURN AIR DUCT.
FILTER TO BE EASILY ACCESSIBLE FROM UNIT SERVICE AREA. FILTER SIZE - 12" X 12" X 2" IN DUCTS WITH UP TO 200 CFM. FILTER SIZE - 16" X 20" X 2" IN DUCTS WITH OVER 200 CFM.
- VERIFY AVAILABLE VOLTAGE, PHASE AND CIRCUIT FUSE SIZE(S) WITH ELECTRICAL PLANS AND ELECTRICAL CONTRACTOR PRIOR TO RELEASING EQUIPMENT ORDER.
- PROVIDE SINGLE POINT POWER CONNECTION.
- PROVIDE FIELD INSTALLED METAL HAIL GUARD
- PROVIDE WITH MANUFACTURES THERMOSTAT
- PROVIDE WITH ITOUCH CONTROLLER AND BACNET
- PROVIDE WITH INVERTER DRIVE COMPRESSOR, MUST UNLOAD TO 14% OF FULL RATED CAPACITY

ACCESSORIES AND NOTES

- DUCT SMOKE DETECTORS (ONE IN SUPPLY AND ONE IN RETURN) WITH REMOTE TEST SWITCH AND INDICATOR MOUNTED NEXT TO UNIT THERMOSTAT.
DUCT SMOKE DETECTOR SUPPLY [AND RETURN] AIR DUCT PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
FIRE ALARM CONTRACTOR SHALL PROVIDE A SHUTDOWN RELAY AND MAKE CONNECTIONS FROM DETECTOR TO RELAY. CONTROLS CONTRACTOR SHALL PROVIDE WIRE AND CONNECTIONS FROM CONTROL RELAY TO AIR HANDLING UNIT. IF A FIRE ALARM SYSTEM IS NOT PROVIDED THE MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL DUCT DETECTOR, SHUT DOWN RELAY, REMOTE TEST SWITCH AND AUDIBLE/VISUAL INDICATOR. PROVIDE 2" FILTER RACKS WITH HINGED ACCESS DOOR.
- PROVIDE CONDENSATE PUMP.



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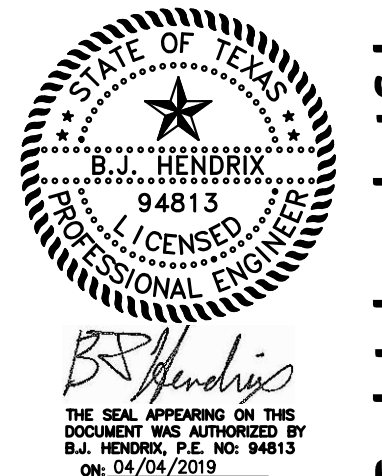
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HCE job no.: 19-004

Brady Independent School District
Bond 2018
Brady, Texas

Revision:	
Project Number	1703
Date:	04/04/2019
Sheet Number	

MISCELLANEOUS EQUIPMENT SCHEDULES										
DAIKIN COOLING ONLY DUCTLESS SPLIT SYSTEMS										
MARK NO.	MODEL NO.	UNIT TYPE	NOMINAL TONS	SEER	VOLT/PH	MCA	MOCP	LINE LENGTH LIMITS (TOTAL / VERTICAL)	WEIGHT	NOTES
HIGH SCHOOL										
AC-H1 (outdoor)	RK24NMVJU	AIR CONDITIONER	2	18	208/230-1	18.3	20 A	98 FT / 66 FT	108	
AC-H1 (indoor)	FTK24NMVJU	WALL MOUNTED			Fed from outdoor	N/A	N/A		27	
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
NOTES (PROVIDE ALL OF THESE ITEMS WITH ALL UNITS): 1. PROVIDE WITH FIELD INSTALLED CONDENSATE PUMP 2. INDOOR UNIT SHALL BE POWERED BY CONTINUOUS 14 AWG, 4 CORE WIRE FROM OUTDOOR UNIT. (NO SPLICES) 3. PROVIDE WITH PROGRAMMABLE WIRED REMOTE 4. PROVIDE WITH FIELD INSTALLED HAIL GUARD (STANDARD FACTORY GRILLE NOT ACCEPTABLE) 5. PLEASE CONTACT DIRECT EXPANSION SOLUTIONS FOR PRICING ASSISTANCE @ 512-940-3435										

MISCELLANEOUS EQUIPMENT SCHEDULES						
GAS-FIRED UNIT HEATERS (SEPARATE COMBUSTION)						
GAS-FIRED UNIT HEATER (GUH): REZNOR MODEL UDAS GAS-FIRED, SEPARATED COMBUSTION, LOW STATIC, UNIT HEATER, 82% - 83% THERMAL EFFICIENCY AND DESIGNED FOR USE WITH NATURAL OR PROPANE GAS. IN SIZES FROM 30,000 TO 400,000 BTUH GAS INPUT. HEATER IS DESIGNED FOR CEILING SUSPENSION WITH A PROPELLER FAN FOR AIR DELIVERY. PROVIDE EACH UNIT WITH 24 V THERMOSTAT AND A HORIZONTAL OR VERTICAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTOR.						
ACCESSORIES: 1. SINGLE STAGE PROPANE GAS VALVE 2. TWO STAGE NATURAL GAS VALVE 3. TWO STAGE PROPANE GAS VALVE 4. STAINLESS STEEL HEAT EXCHANGER 5. 208 V / 1 PH 6. VERTICAL LOUVERS 7. DOWNTURN NOZZEL KIT 8. PROPANE CONVERSION KIT 9. CEILING SUSPENSION KIT						
MARK NO.	MODEL NO.	HEATING INPUT MBTUH	VENT DIAMETER	VOLTS / FLA	WEIGHT LBS	ACCESSORIES
HIGH SCHOOL						
GUH-1	UDAS-75	75	4" / 4"	115 / 3.3	85	2, 4, 7
GUH-2	UDAS-75	75	4" / 4"	115 / 3.3	85	2, 4, 7

MISCELLANEOUS EQUIPMENT SCHEDULES						
DRYER BOX / ROOF HOOD						
DRYER BOX (DB): ROUGH-IN BOX FOR RESIDENTIAL STYLE CLOTHES DRYERS, AS MANUFACTURED BY IN-O-VATE TECHNOLOGIES, INC. OR EQUAL.						
DRYER JACK - ROOF HOOD (DJ): FLAT ROOF JACK FOR DRYER EXHAUST BY IN-O-VATE, PROVIDE WITH ROOF CURB.						
IN-O-VATE TECHNOLOGIES INC. CONTACT INFORMATION: 888-443-7937 info@dryerbox.com						
MARK NO.	MODEL NO.	WALL SIZE	EXHAUST DIRECTION			
DB-1	480	2 x 6	UP			
DB-2	350	2 x 4	UP			
DB-3	480	2 x 6	DOWN			
DB-4	30	2 x 4	DOWN			
-	-	-	-	-	-	-
DJ-1	DJK486U					
-	-	-	-	-	-	-

MISCELLANEOUS EQUIPMENT SCHEDULES						
LOUVERS						
LOUVER (L): GREENHECK MODEL ESD-403, 4 INCH DEEP EXTRUDED ALUMINUM CONSTRUCTION. VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING. COORDINATE FRAME TYPE WITH ARCHITECT AND BUILDING CONSTRUCTION. PROVIDE WITH 1/8" X 1/8" GALVANIZED HARDWARE CLOTH BEE SCREEN.						
MARK NO.	SIZE (W x H)	CFM	MAX. VELOCITY FPM	PRESSURE DROP	WATER PENETRATION	STORM/WIND RESISTANT
L-H1	36 x 24	1200	500	-	-	-
L-H2	48 x 40	2700	500	-	-	-
L-H3	48 x 48	3000	500	-	-	-
L-H4	48 x 48	3000	500	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-



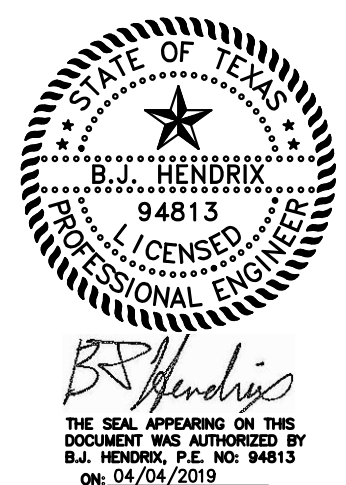
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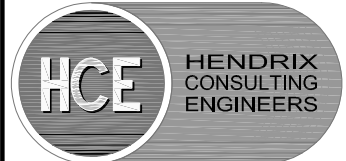
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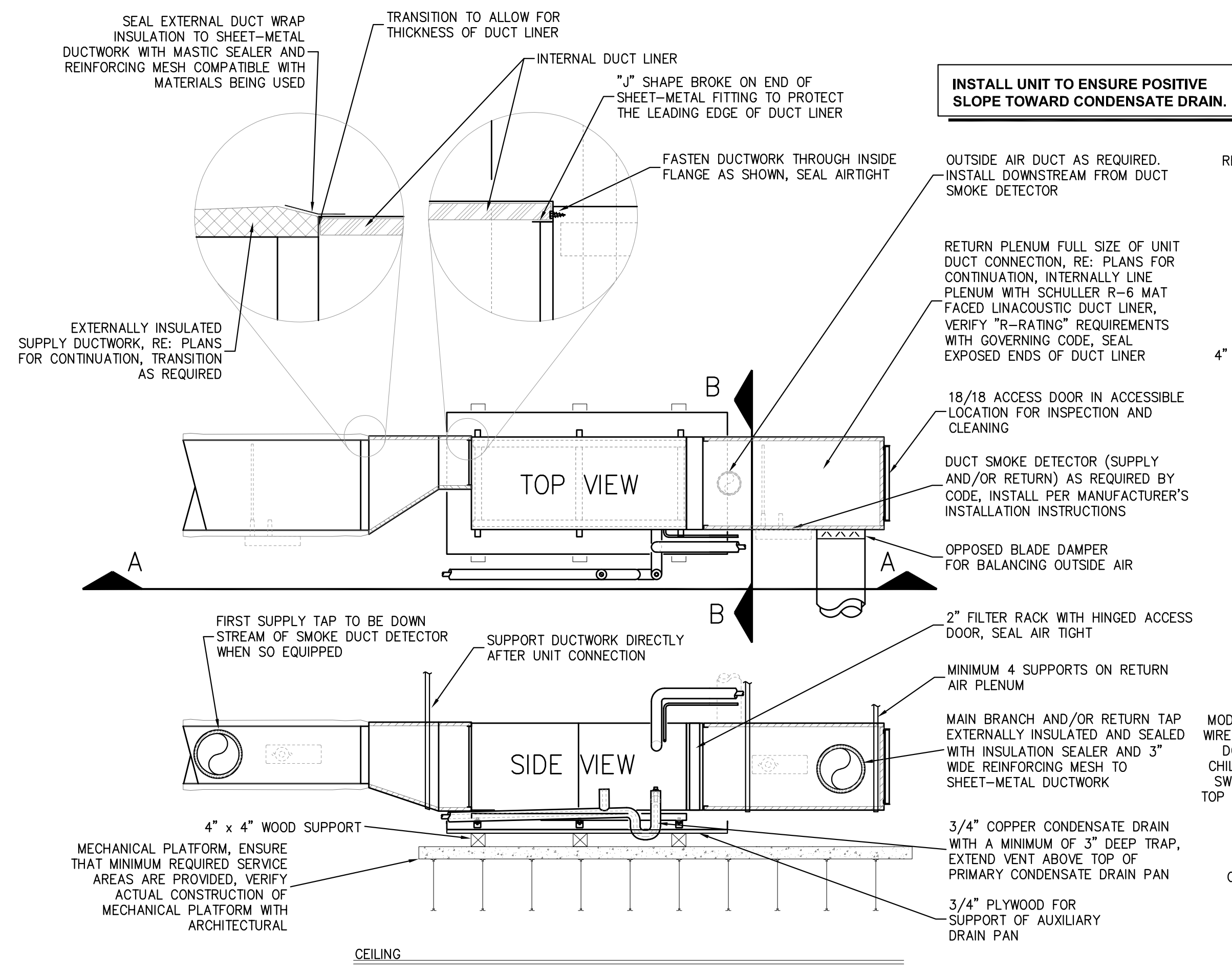


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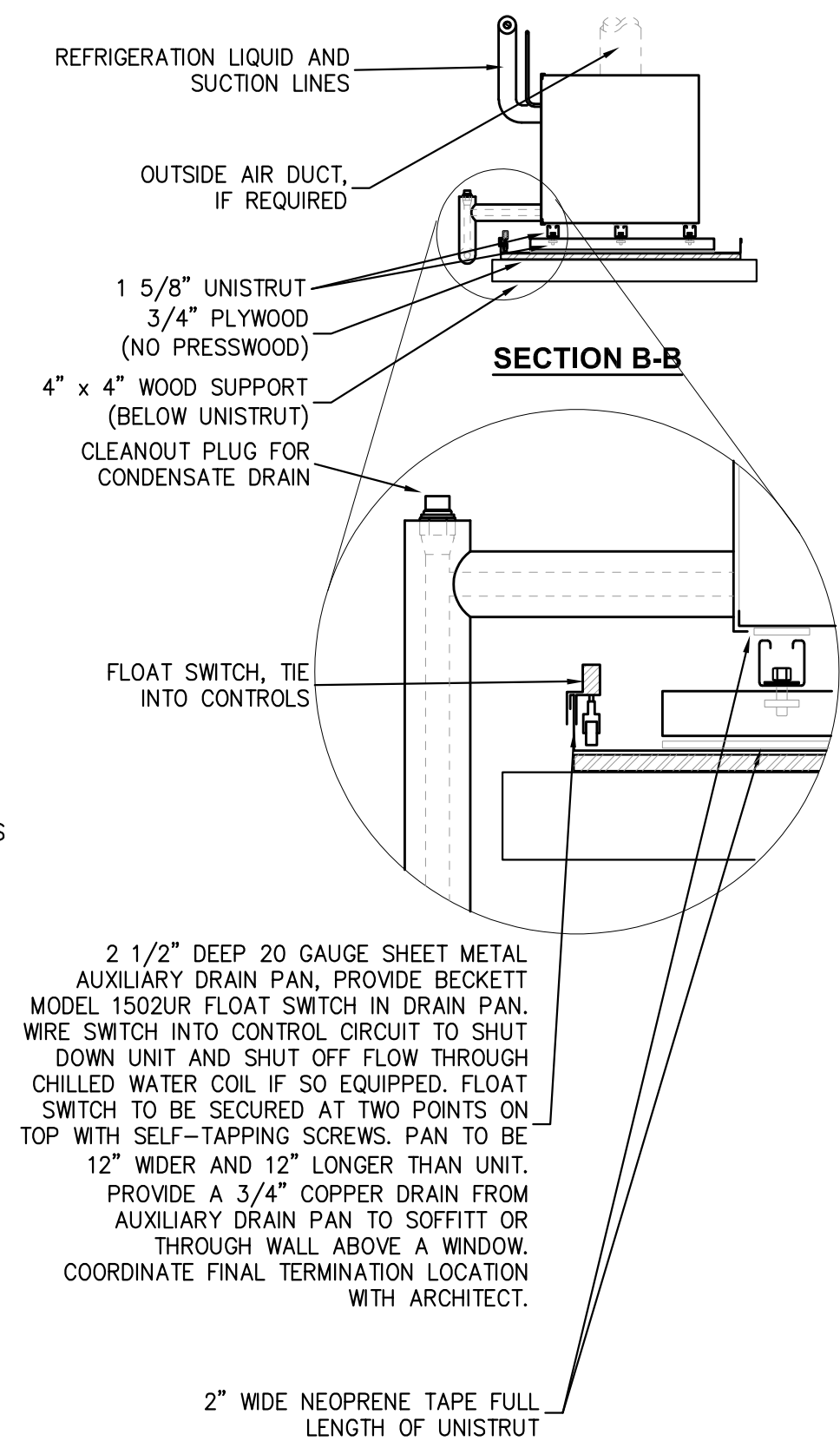
HCE job no.: 19-004

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Bond 2018
 Brady, Texas

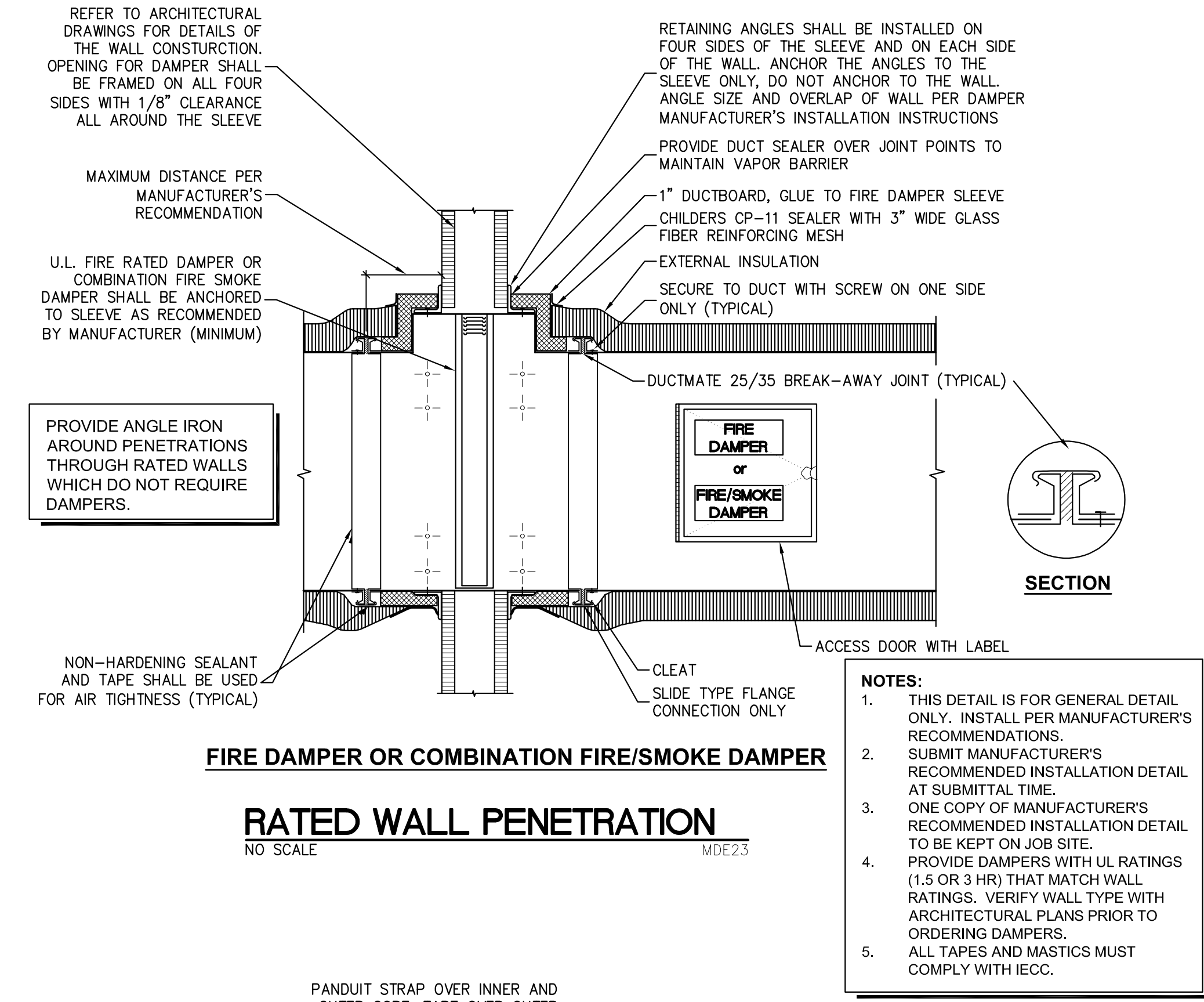
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Project Number	1703
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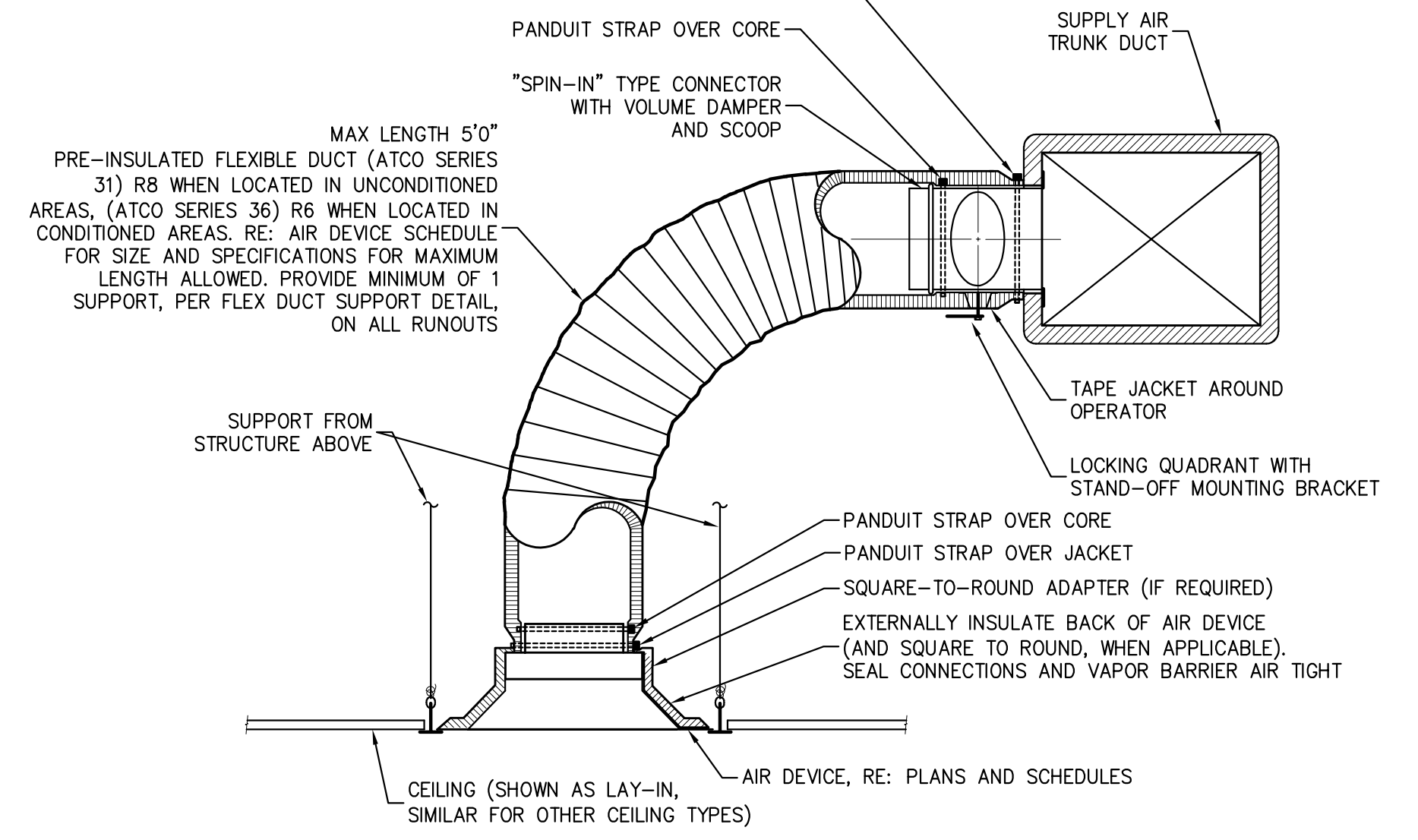
MECHANICAL PLATFORM AIR HANDLING UNIT DETAIL
NO SCALE MDE126



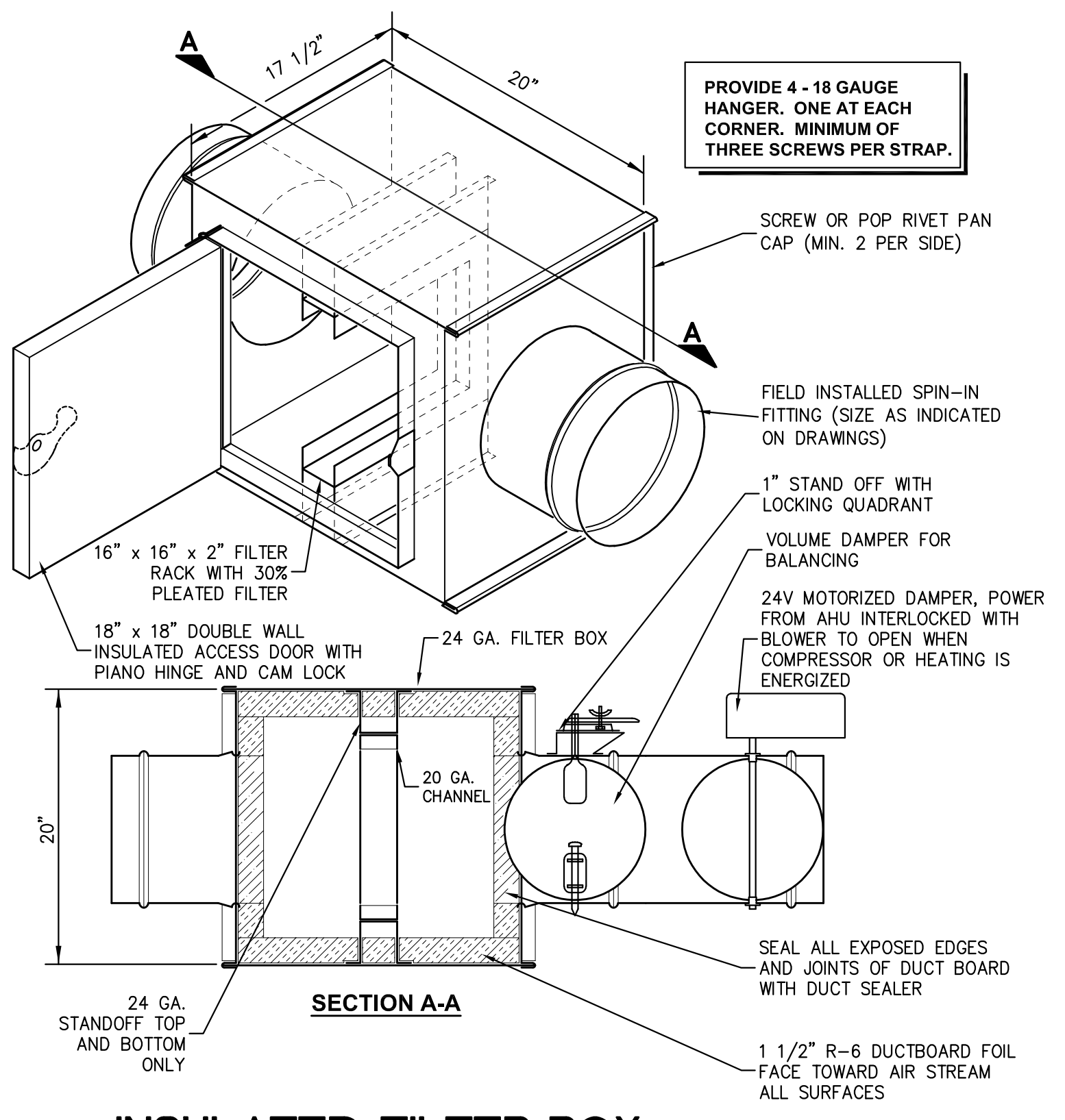
REFRIGERANT PIPING SUPPORT DETAIL
NO SCALE MDE24



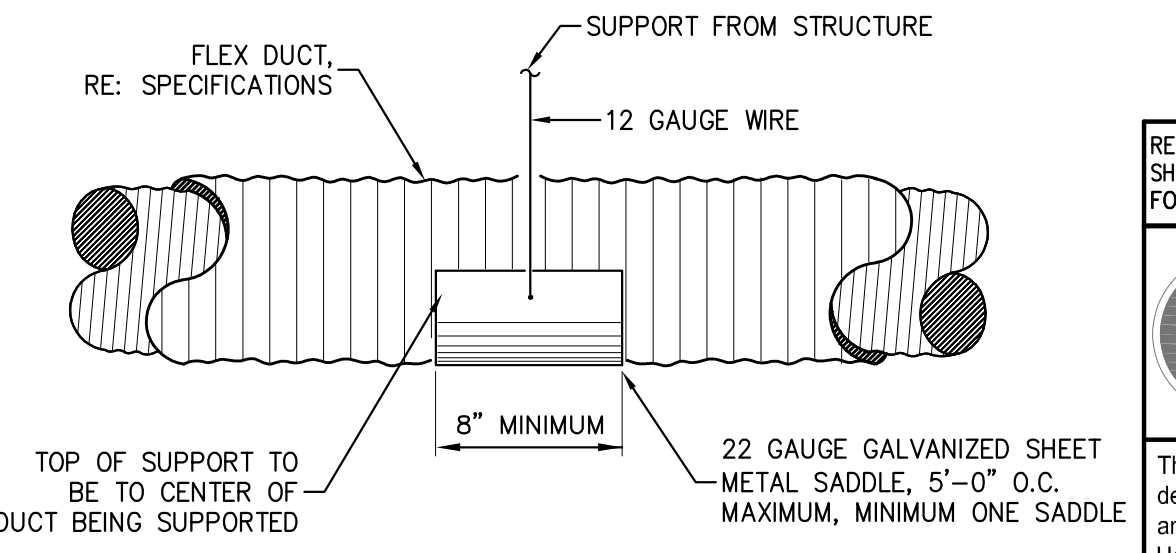
FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER RATED WALL PENETRATION
NO SCALE MDE23



CEILING SUPPLY AIR DEVICE CONNECTION DETAIL
NO SCALE MDE17



INSULATED FILTER BOX
NO SCALE MDE71



FLEX. DUCT SUPPORT DETAIL
NO SCALE MDE19

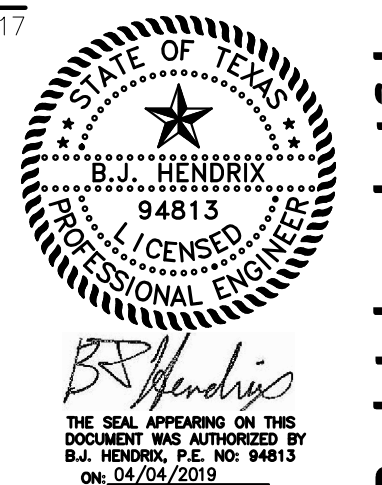
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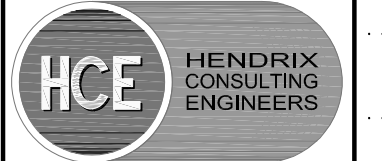
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- NOTES:**
1. THIS DETAIL IS FOR GENERAL DETAIL ONLY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 2. SUBMIT MANUFACTURER'S RECOMMENDED INSTALLATION DETAIL AT SUBMITTAL TIME.
 3. ONE COPY OF MANUFACTURER'S RECOMMENDED INSTALLATION DETAIL TO BE KEPT ON JOB SITE.
 4. PROVIDE DAMPERS WITH UL RATINGS (1.5 OR 3 HR) THAT MATCH WALL RATINGS. VERIFY WALL TYPE WITH ARCHITECTURAL PLANS PRIOR TO ORDERING DAMPERS.
 5. ALL TAPES AND MASTICS MUST COMPLY WITH IECC.



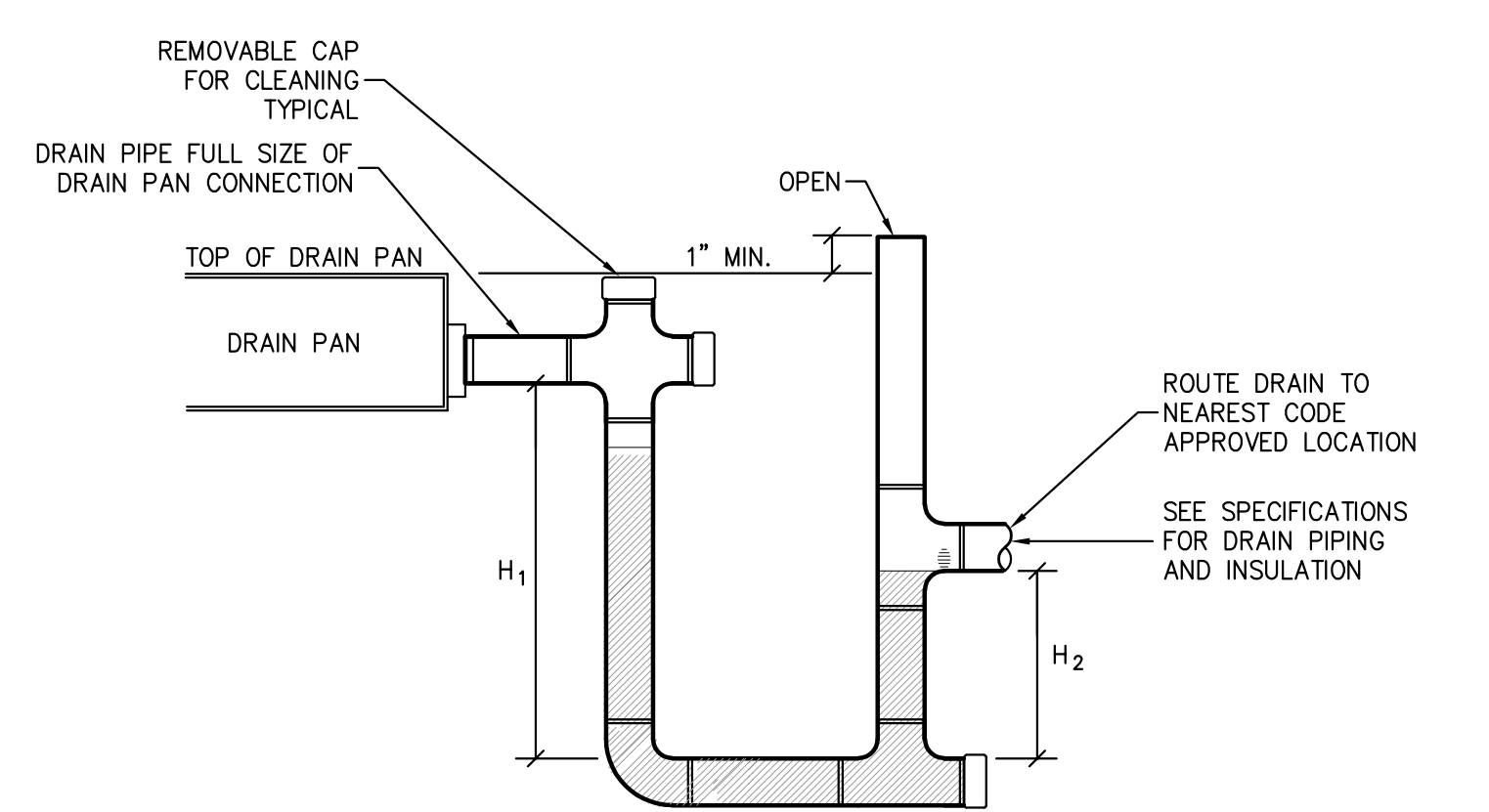
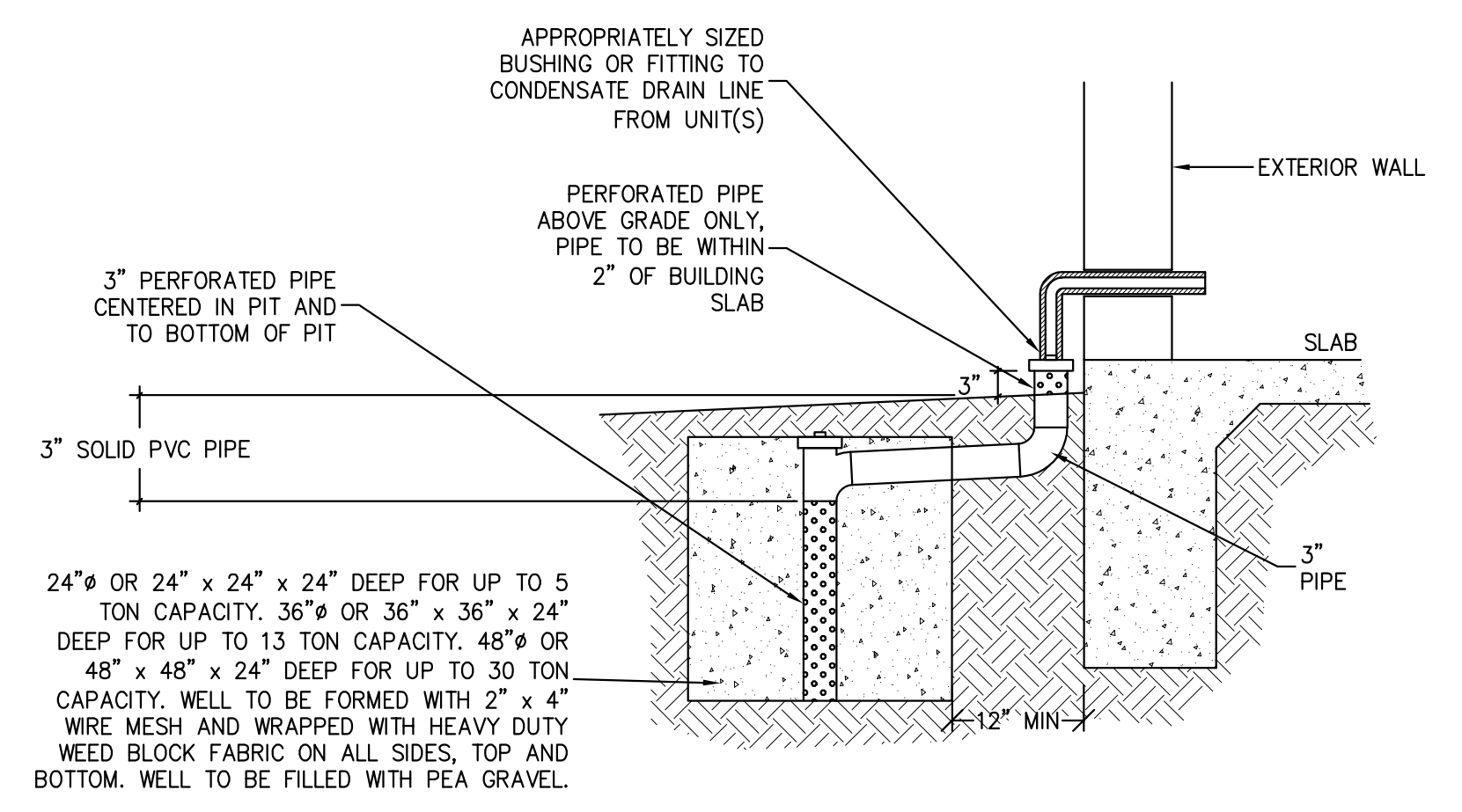
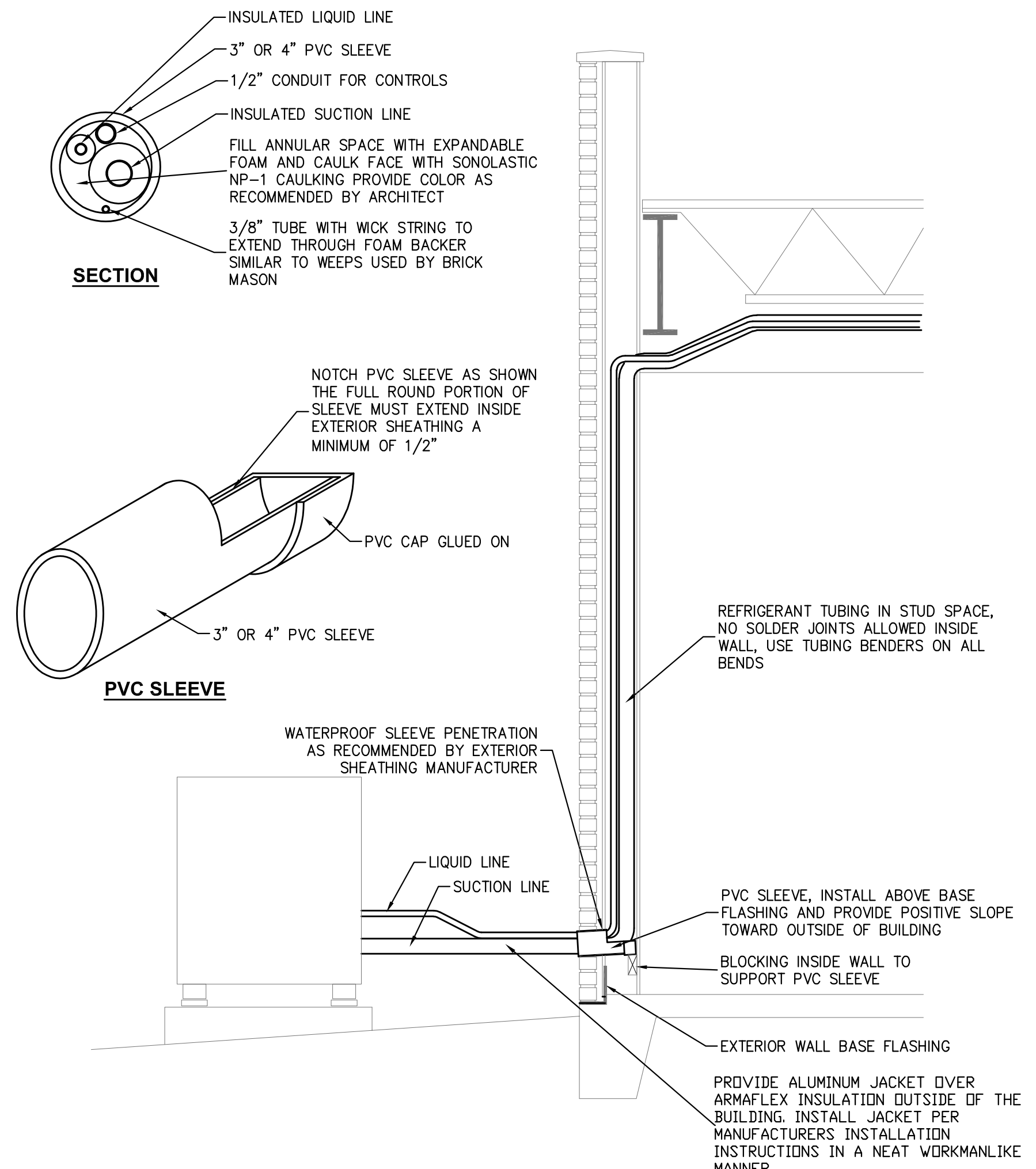
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Bond 2018
Brady, Texas

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CALCULATE TRAP DIMENSIONS USING FORMULAS OR DIMENSIONS LISTED BELOW. USE MANUFACTURER'S RECOMMENDATION IF MORE STRINGENT.

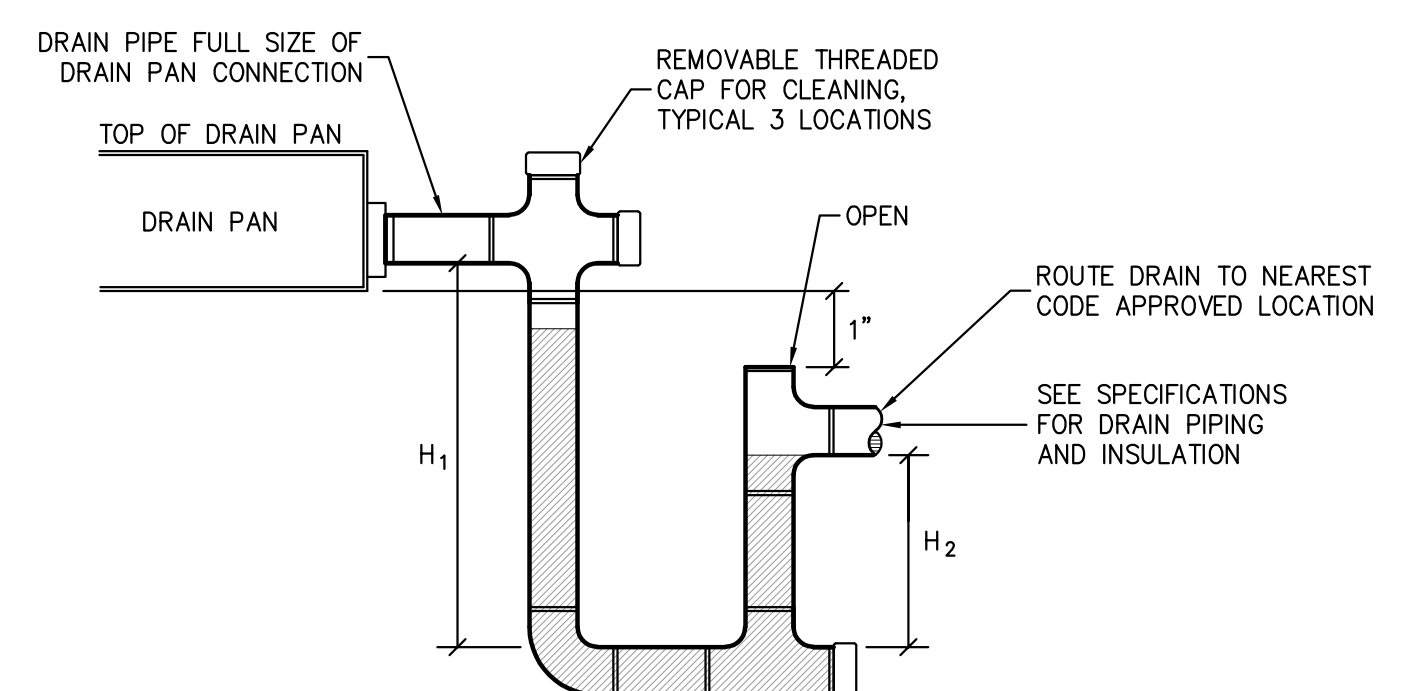
FORMULAS FOR DRAW-THRU UNITS
 $H_1 = \text{NEGATIVE STATIC PRESSURE} \times 1.5 + 3.5"$
 $H_2 = \text{NEGATIVE STATIC PRESSURE} \times 0.75 + 2.5"$

MINIMUM DIMENSIONS FOR RESIDENTIAL AIRHANDLERS AND FURNACES UP TO 5 TONS
 $H_1 = 5"$
 $H_2 = 3.5"$

FORMULAS FOR BLOW-THRU UNITS
 $H_1 = H_2 + 0.5"$
 $H_2 = \text{MAXIMUM POSITIVE STATIC PRESSURE} \times 1.5$

MINIMUM DIMENSIONS FOR RESIDENTIAL AIR HANDLERS AND FURNACES UP TO 5 TONS
 $H_1 = 3"$
 $H_2 = 1.5"$

INSTALL 90 DEGREE ELBOW IN OVERFLOW DRAIN CONNECTION OF DRAIN PAN. TURN DOWN INTO AUXILIARY PAN WITH FLOAT SWITCH AND PIPED OFF IF SHOWN OR CALLED OUT ON PLANS



USE DIMENSIONS LISTED BELOW UNLESS MANUFACTURER'S RECOMMENDATIONS ARE MORE STRINGENT

RTU'S AND MULTIZONE RTU'S
 $H_1 = 9"$
 $H_2 = 6"$

MAU'S
 $H_1 = 12"$
 $H_2 = 9"$



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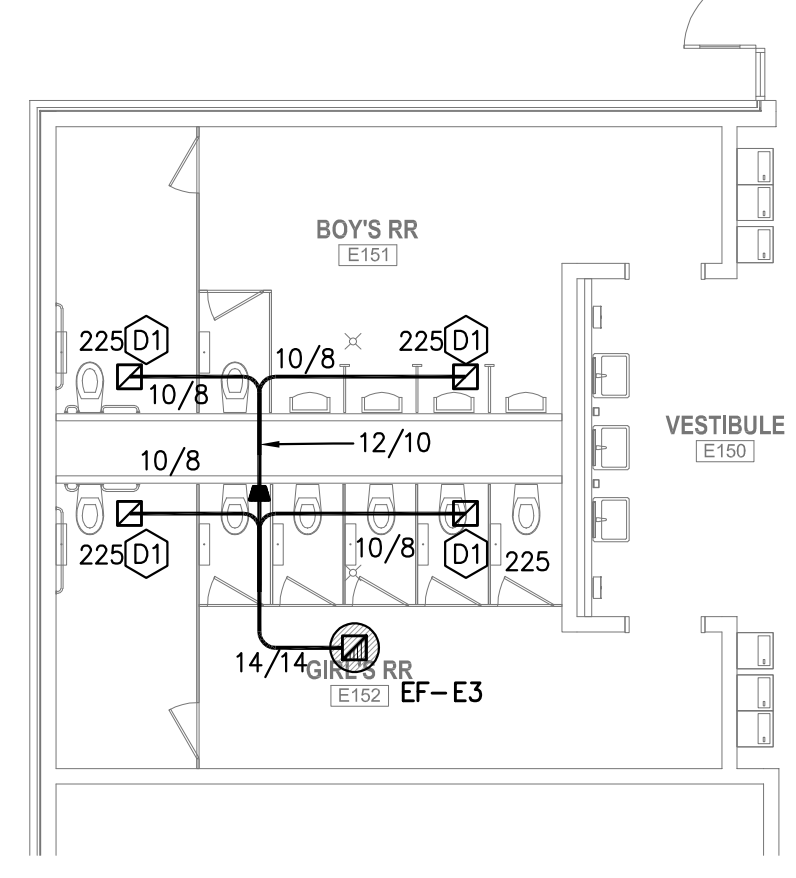
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Bond 2018
 Brady, Texas

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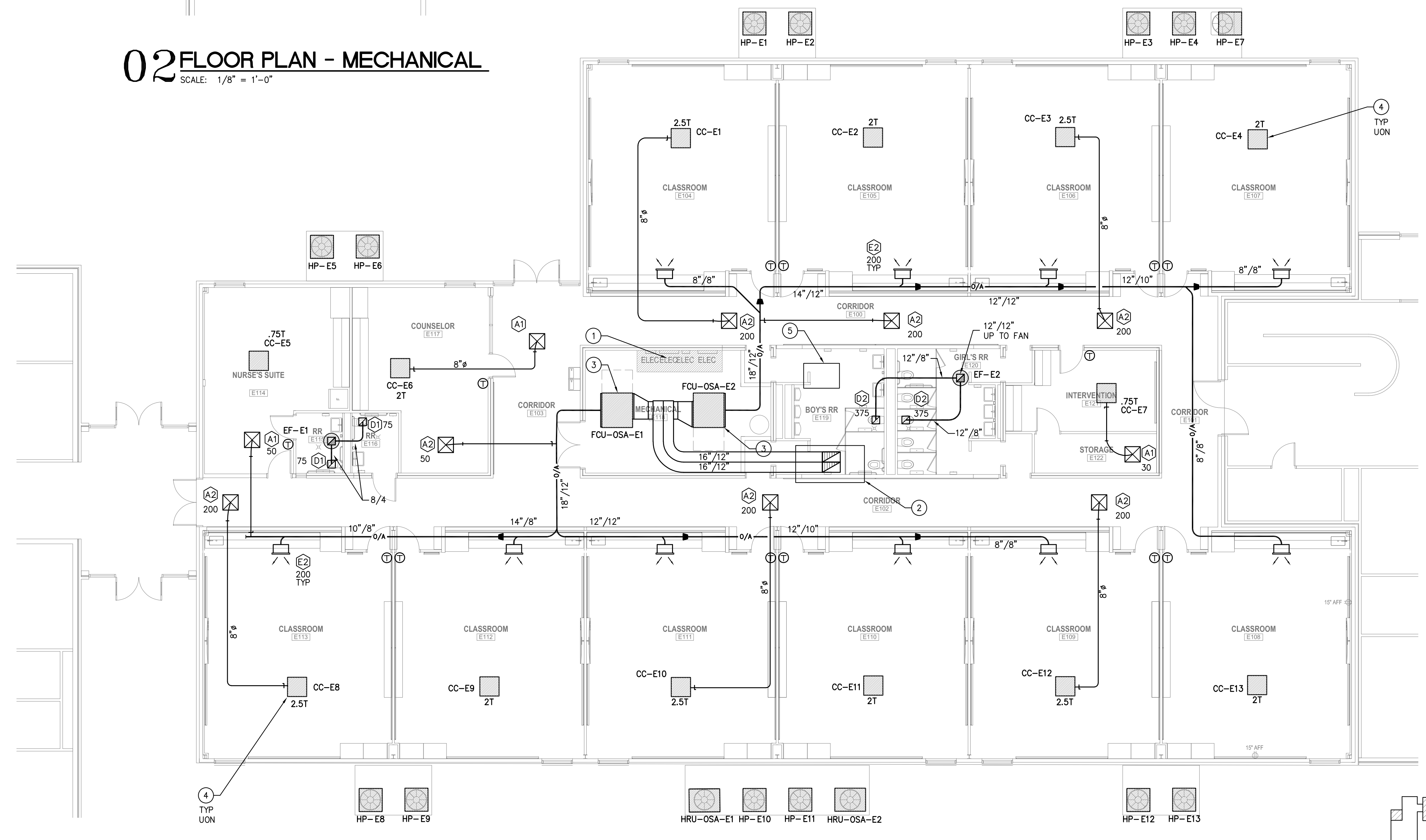
KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

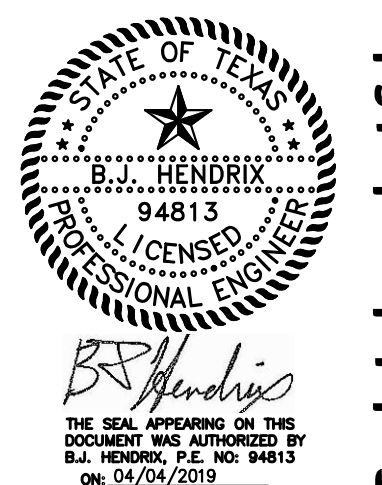
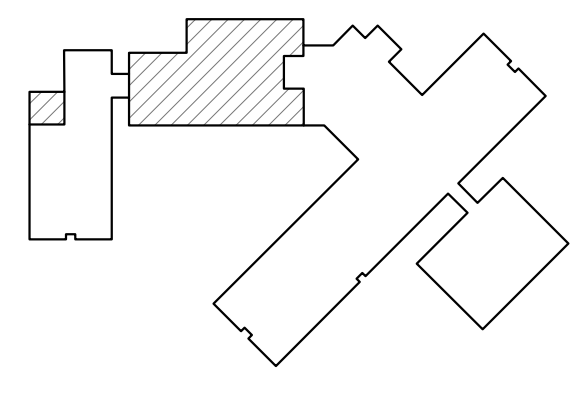
- DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
- EXISTING HOOD ON ROOF TO BE REUSED FOR OUTSIDE AIR INTAKE. PROVIDE INSULATED PLENUM BELOW HOOD FOR NEW OUTSIDE AIR INTAKE DUCT(S) TO CONNECT TO.
- UNIT TO BE SUSPENDED FROM STRUCTURE. ROUTE CONDENSATE TO FLOOR DRAIN IN ROOM.
- ROUTE PUMPED CONDENSATE TO DRYWELL ON EXTERIOR OF BUILDING. REFERENCE DETAIL ON DETAIL SHEETS.
- EXISTING HOOD ON ROOF TO REMAIN. INSULATE INSIDE OF DUCT AND CAP DUCT AIRTIGHT BELOW ROOF.



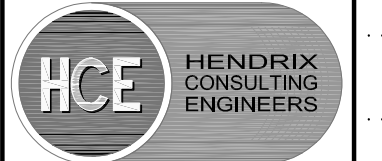
02 FLOOR PLAN - MECHANICAL
 SCALE: 1/8" = 1'-0"



01 ELEMENTARY FLOOR PLAN - MECHANICAL
 SCALE: 1/8" = 1'-0"



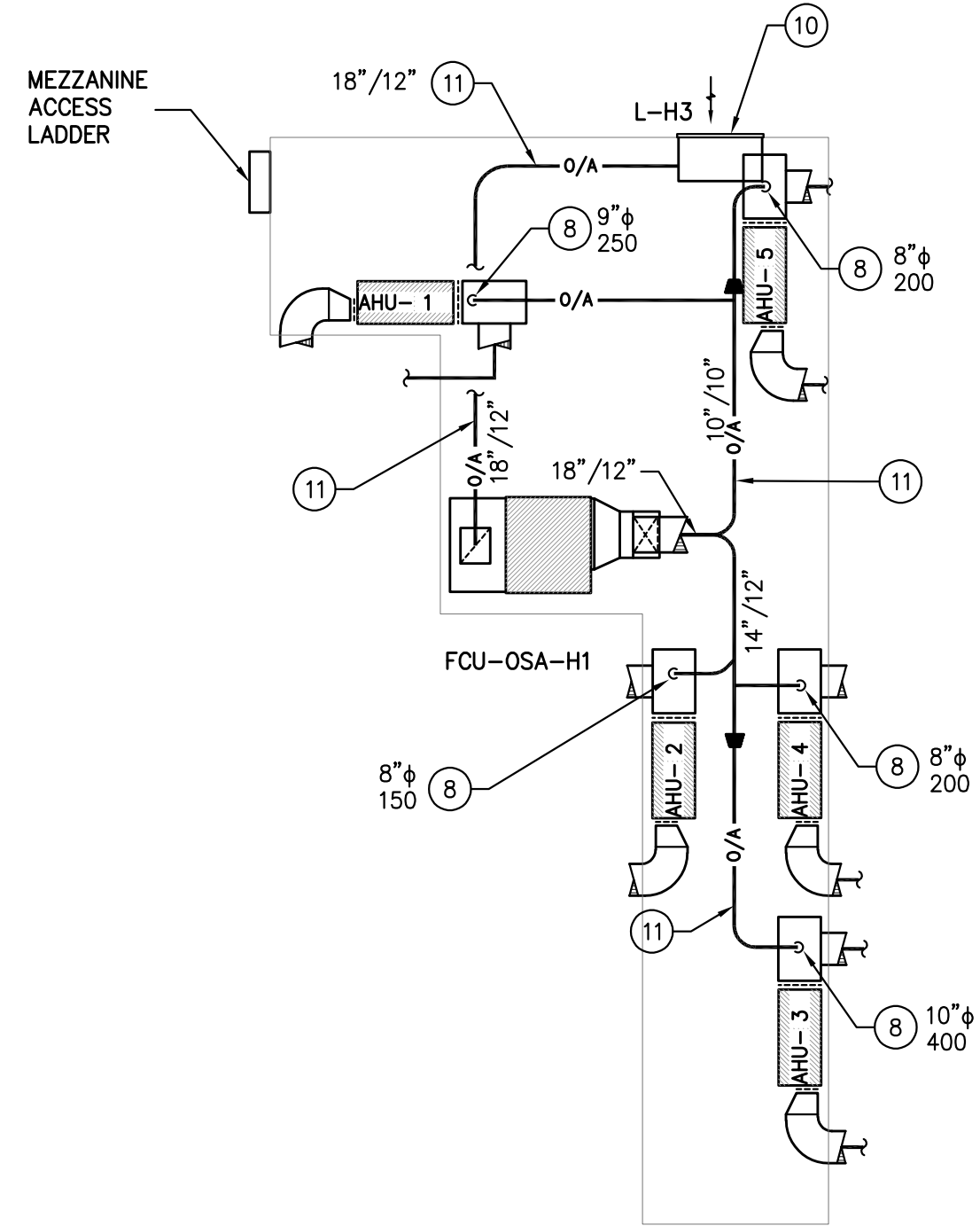
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01 MEZZANINE PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

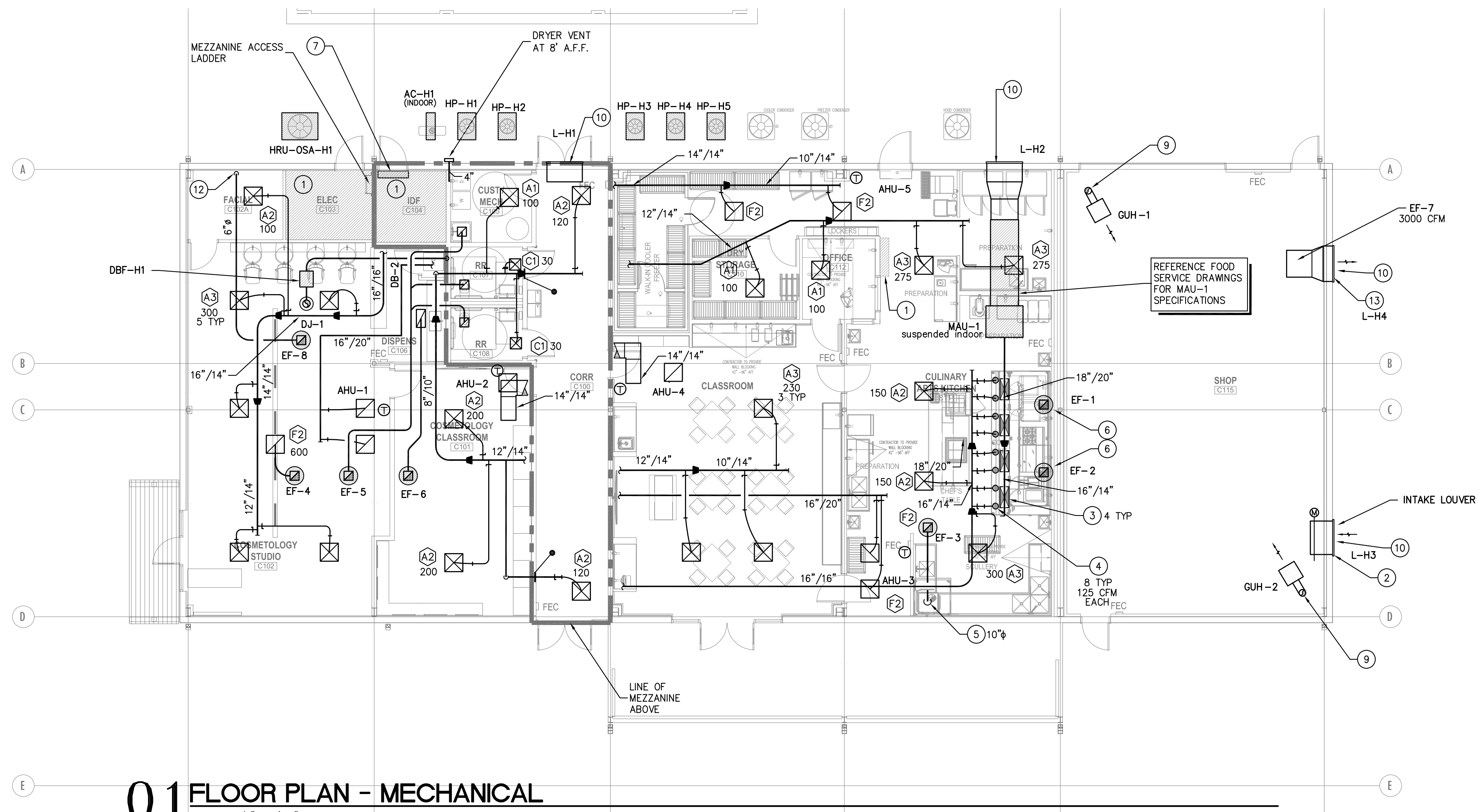
- ### KEYED NOTES
- THESE NOTES APPLY TO THIS SHEET ONLY
- DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
 - OUTSIDE AIR INTAKE LOUVER. REFERENCE ARCHITECTURAL FOR EXACT LOCATION. PROVIDE 24" DEEP EXTERNALLY WRAPPED SHEET METAL PLENUM FULL SIZE OF LOUVER ON BACK OF LOUVER. BOTTOM OF PLENUM TO BE WELDED WATERTIGHT AND SLOPED TO DRAIN TOWARDS EXTERIOR.
 - CONNECT MAKE UP AIR TO HOOD CONNECTIONS. COORDINATE EXACT SIZE WITH HOOD MANUFACTURER.
 - CONNECT A/C TO HOOD A/C CONNECTIONS.
 - STAINLESS STEEL EXHAUST DUCT FROM DISHWASHER HOOD UP TO EXHAUST FAN. PROVIDE ALL TRANSITIONS TO MAKE CONNECTIONS. STAINLESS STEEL DUCT TO BE SLOPED TO DRAIN TOWARDS DISHWASHER HOOD. SOLDER ALL JOINTS WATERTIGHT.
 - GREASE DUCT WITH FIRE WRAP CONSTRUCTED PER SPECIFICATIONS. PROVIDE ALL TRANSITIONS REQUIRED TO MAKE SYSTEM OPERATIONAL.
 - ROUTE CONDENSATE TO SERVICE SINK IN ADJACENT ROOM.
 - NEUTRAL OUTSIDE AIR DOWN TO CONNECT TO RETURN AIR PLENUM. PROVIDE MANUAL DAMPER FOR BALANCING.
 - FLUE AND COMBUSTION AIR UP TO MANUFACTURERS CONCENTRIC ROOF TERMINATION.
 - VERIFY EXACT MOUNTING LOCATIONS ON SIDEWALL WITH ARCHITECT AND BUILDING STRUCTURE.
 - DUCT TO BE ROUTED HIGH TO ALLOW MAXIMUM HEADROOM FOR ACCESS BELOW DUCT.
 - EXHAUST DUCT DOWN TO MANICURE TABLE.
 - EXHAUST AIR LOUVER. REFERENCE ARCHITECTURAL FOR EXACT LOCATION. PROVIDE 12" DEEP EXTERNALLY WRAPPED SHEET METAL PLENUM FULL SIZE OF LOUVER ON BACK OF LOUVER. BOTTOM OF PLENUM TO BE WELDED WATERTIGHT AND SLOPED TO DRAIN TOWARDS EXTERIOR.

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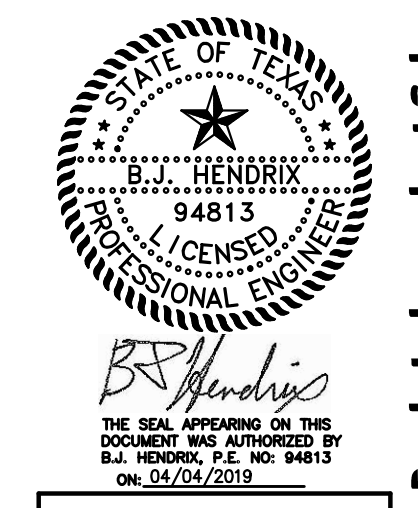
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01 FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"



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G:\2019\BRADY\ISD_004\04M202\CAREER CENTER FLOOR PLAN - MECHANICAL.dwg, 4/3/2019 4:10:25 PM, JOEY, Bluebeam PDF, ARCH_L_D_(24_00_x_36_00_inches), 0.126:12

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**UTILITY COMPANY CONTACT:
CITY OF BRADY ELECTRIC**

**ELECTRIC SUPERVISOR:
JOE SOLIS
PHONE: (325) 597-2244
EMAIL: jsolis@bradytx.us**

UTILITY COMPANY TO DETERMINE SERVICE TRANSFORMER SIZES. DO NOT BEGIN ANY UTILITY WORK UNTIL UTILITY DRAWINGS HAVE BEEN ISSUED BY UTILITY COMPANY. UTILITY COMPANY TO PROVIDE AVAILABLE FAULT CURRENT WHEN AVAILABLE.

- KEYED NOTES**
THESE NOTES APPLY TO THIS SHEET ONLY
- 1 PRIMARY CONDUIT TO RISER POLE PROVIDE AND INSTALLED BY UTILITY COMPANY.
 - 2 APPROXIMATE LOCATION FOR UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH UTILITY COMPANY. PAD BY CONTRACTOR PER UTILITY COMPANY REQUIREMENTS.
 - 3 UNDERGROUND SECONDARY TO BUILDING SERVICE DISCONNECT. REFERENCE RISER DIAGRAM FOR MORE INFORMATION.
 - 4 APPROXIMATE LOCATION OF BUILDING SERVICE DISCONNECT. FIELD COORDINATE EXACT LOCATION.
 - 5 ROUTE CONDUIT AND CONDUCTORS UNDERGROUND FROM DISCONNECT TO PANEL 'LDP' IN ELECTRIC ROOM. REFERENCE RISER DIAGRAM FOR MORE INFORMATION.
 - 6 APPROXIMATE LOCATION OF PANEL 'LDP' IN ELECTRIC ROOM. REFERENCE FLOOR PLANS FOR EXACT LOCATION.

RELIANCE ARCHITECTURE

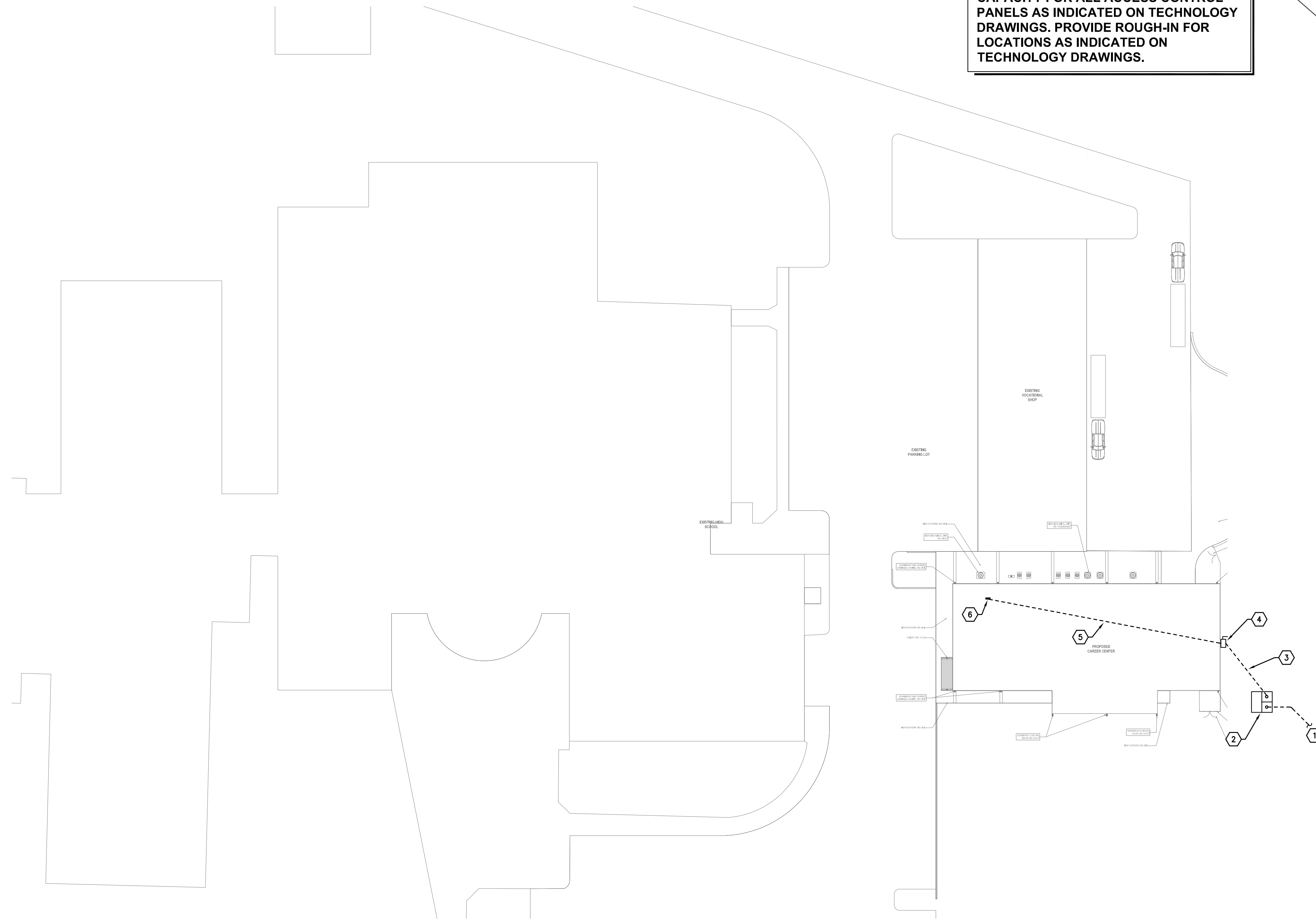
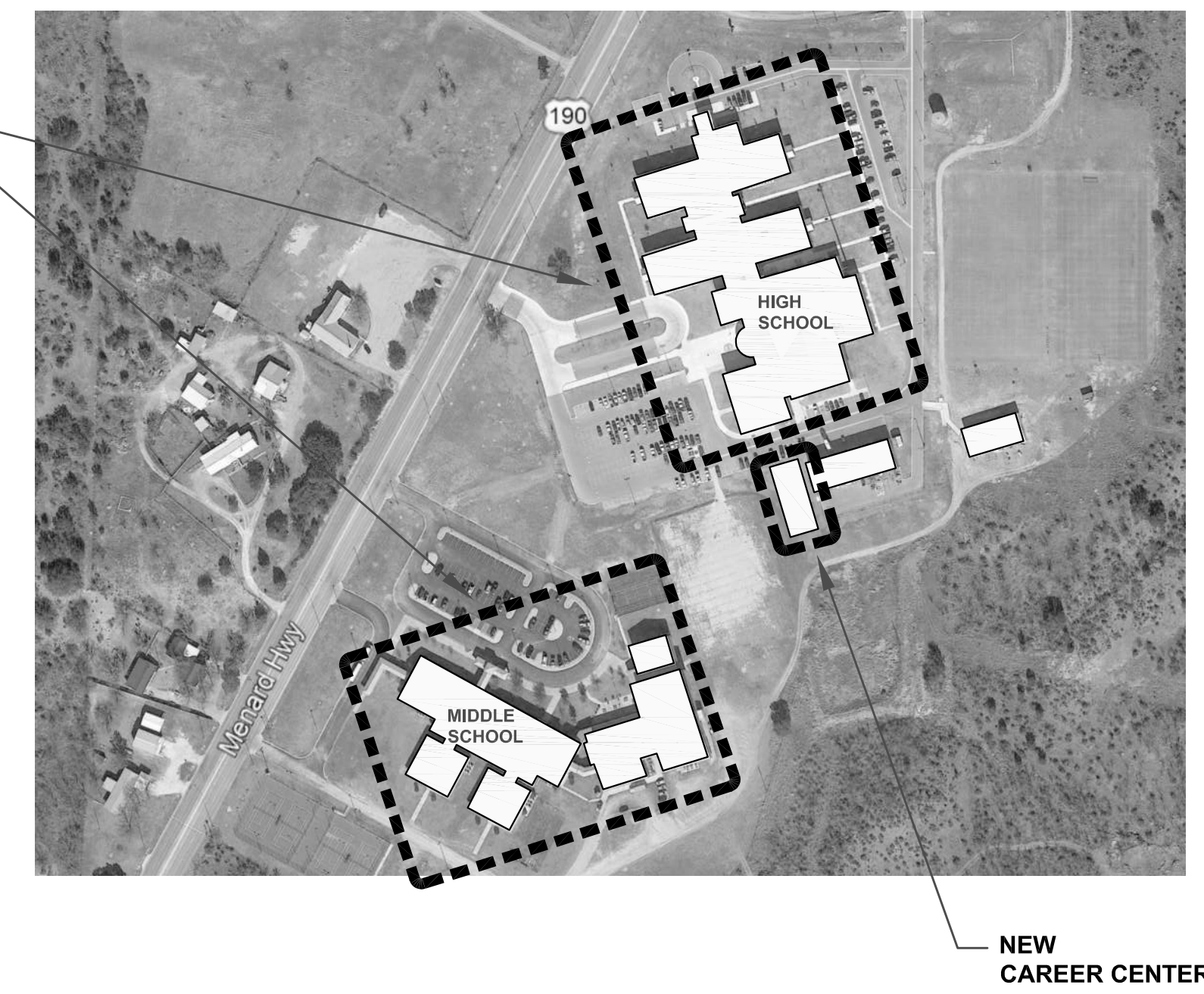
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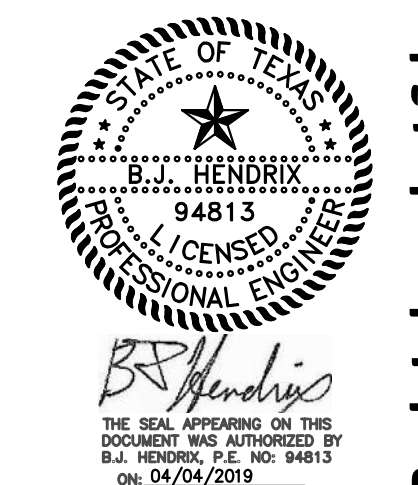
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ELECTRICAL CONTRACTOR SHALL REFERENCE ALL TECHNOLOGY SHEETS FOR ADDITIONAL WORK AS REQUIRED IN BUILDINGS NOT SHOWN ON ELECTRICAL FLOOR PLANS, (AREAS INDICATED INSIDE DASHED LINES). CONTRACTOR SHALL PROVIDE DEDICATED CIRCUITS FROM NEAREST PANEL WITH AVAILABLE CAPACITY FOR ALL ACCESS CONTROL PANELS AS INDICATED ON TECHNOLOGY DRAWINGS. PROVIDE ROUGH-IN FOR LOCATIONS AS INDICATED ON TECHNOLOGY DRAWINGS.



01 SITE PLAN - CAREER CENTER - ELECTRICAL
SCALE: 1/8" = 1'-0"



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**UTILITY COMPANY CONTACT:
CITY OF BRADY ELECTRIC**

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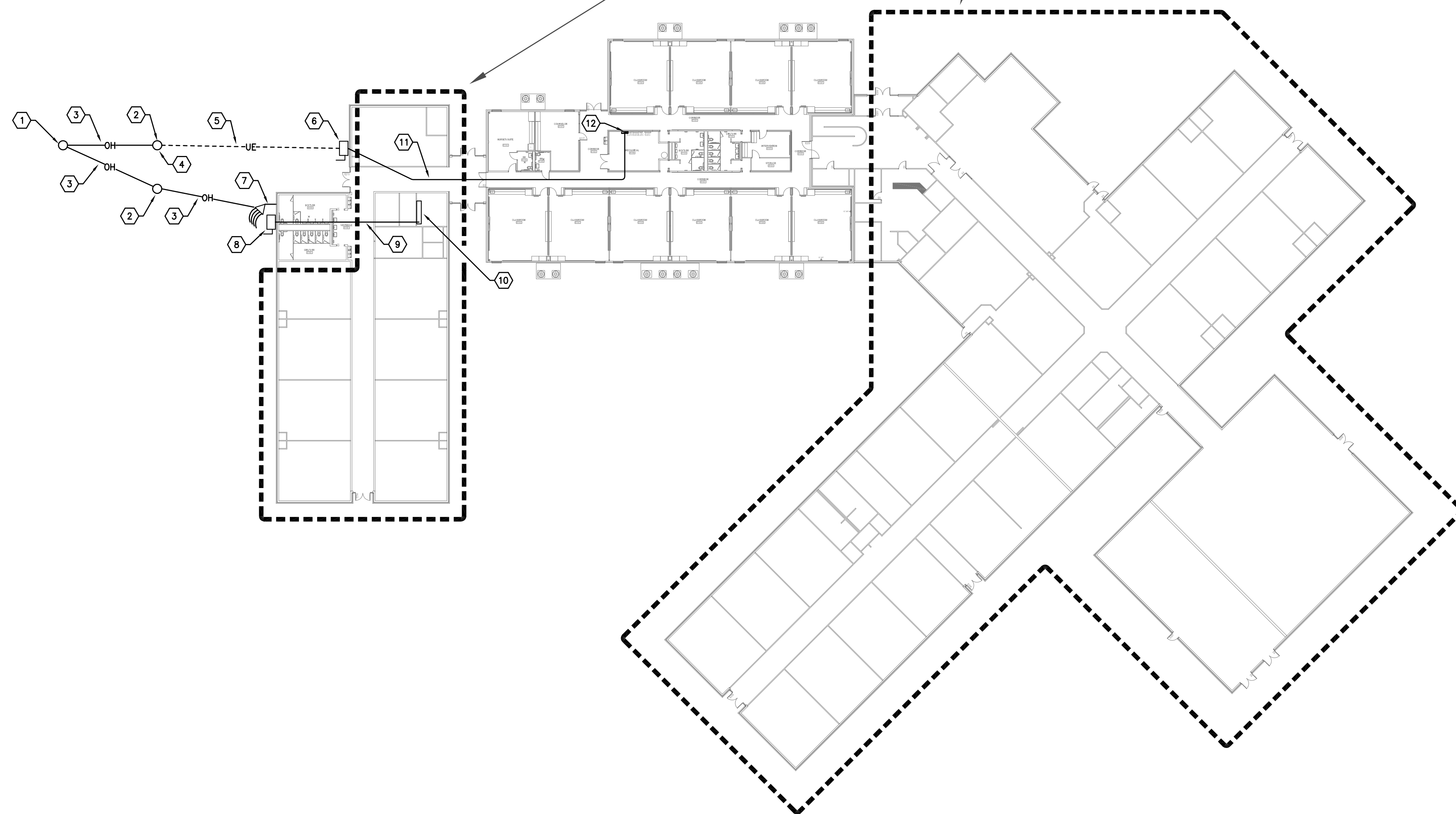
UTILITY COMPANY TO DETERMINE SERVICE TRANSFORMER SIZES. DO NOT BEGIN ANY UTILITY WORK UNTIL UTILITY DRAWINGS HAVE BEEN ISSUED BY UTILITY COMPANY. UTILITY COMPANY TO PROVIDE AVAILABLE FAULT CURRENT WHEN AVAILABLE.

ELECTRICAL CONTRACTOR SHALL REFERENCE ALL TECHNOLOGY SHEETS FOR ADDITIONAL WORK AS REQUIRED IN BUILDINGS NOT SHOWN ON ELECTRICAL FLOOR PLANS, (AREAS INDICATED INSIDE DASHED LINES). CONTRACTOR SHALL PROVIDE DEDICATED CIRCUITS FROM NEAREST PANEL WITH AVAILABLE CAPACITY FOR ALL ACCESS CONTROL PANELS AS INDICATED ON TECHNOLOGY DRAWINGS. PROVIDE ROUGH-IN FOR LOCATIONS AS INDICATED ON TECHNOLOGY DRAWINGS.

KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- 1 EXISTING UTILITY POLE WITH TRANSFORMERS AND METER TO REMAIN.
- 2 EXISTING UTILITY POLE TO REMAIN.
- 3 EXISTING OVERHEAD ELECTRIC TO REMAIN.
- 4 CONTRACTOR TO REMOVE EXISTING CONDUIT RISERS AND BREAKER ENCLOSURE ON POLE AND PROVIDE NEW RISERS AS REQUIRED BY UTILITY COMPANY. REFERENCE RISER DIAGRAM.
- 5 ROUTE 4#600KCM IN A 4" CONDUIT UNDERGROUND FROM EXISTING POLE TO NEW BUILDING SERVICE DISCONNECT. COORDINATE REQUIREMENTS FOR RISER UP POLE WITH UTILITY COMPANY.
- 6 PROVIDE A NEW 400 AMP BUILDING SERVICE DISCONNECT. FIELD COORDINATE EXACT LOCATION. REFERENCE RISER DIAGRAM AND DISCONNECT SCHEDULE FOR MORE INFORMATION.
- 7 REMOVE EXISTING WEATHER HEAD, CONDUIT/WIRING BACK TO PANEL 'DPE'. REPAIR WALL TO A WATER TIGHT CONDITION.
- 8 PROVIDE A NEW 600 AMP BUILDING SERVICE DISCONNECT. FIELD COORDINATE EXACT LOCATION. REFERENCE RISER DIAGRAM AND DISCONNECT SCHEDULE FOR MORE INFORMATION.
- 9 ROUTE (2) SETS OF 4 # 350 KCM AND 1 # 1 GROUND, EACH SET IN A 3" CONDUIT. ROUTE TO EXISTING PANEL 'DPE' IN ELECTRIC ROOM. FIELD VERIFY EXISTING CONDITION AND ROUTING REQUIREMENTS PRIOR TO BID.
- 10 APPROXIMATE LOCATION OF PANEL 'DPE'. FIELD VERIFY EXACT LOCATION.
- 11 ROUTE 4 # 600 KCM AND 1 # 3 GROUND IN A 4" CONDUIT OVERHEAD TO NEW PANEL 'L1' LOCATION. FIELD VERIFY EXISTING CONDITIONS AND ROUTING REQUIREMENTS PRIOR TO BID.
- 12 APPROXIMATE LOCATION OF PANEL 'L1'. REFERENCE FLOOR PLANS FOR EXACT LOCATION.



01 SITE PLAN - ELEMENTARY - ELECTRICAL
SCALE: 1" = 30'-0"



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REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION



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GENERAL NOTES

- A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
- B. CONTRACTOR IS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
- C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY NFPA, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT.
- D. THE ELECTRICAL CONTRACTOR SHALL VERIFY SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT PROVIDED AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO INSTALLATION OF CONDUIT. COORDINATE WITH MECHANICAL/ELECTRICAL COORDINATION SHEET PROVIDED BY MECHANICAL CONTRACTOR FOR ACTUAL EQUIPMENT BEING USED.
- E. HOMERUNS SHALL BE COORDINATED WITH PANEL BOARDS. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS AND EXPOSED STRUCTURE AREAS.
- F. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY CURRENT N.E.C.
- G. MINIMUM WIRE/CONDUIT SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT. WHERE THE DISTANCE BETWEEN THE SUPPLYING PANEL AND THE FIRST BRANCH CIRCUIT RECEPTACLE OR LIGHT FIXTURE IS MORE THAN 100 FEET, UP SIZE CONDUCTOR TO ALLOW FOR MAXIMUM OF 3% VOLTAGE DROP FOR ACTUAL ROUTING OF CONDUITS TO DEVICE.
- H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE SYSTEM.
- I. CONFIRM THE EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES WITH ARCHITECT BEFORE ROUGH-IN. COORDINATE REQUIRED CLEARANCES ABOVE FIXTURES WITH OTHER TRADES.
- J. PROVIDE A TYPED PANEL DIRECTORY FOR ALL PANELBOARDS INDICATING FINAL INSTALLED CONDITION. CIRCUIT LABELING SHALL AGREE WITH EQUIPMENT DESIGNATIONS AND OWNERS FINAL ROOM NUMBERS.
- K. LABEL ALL RECEPTACLES AND LIGHT SWITCHES WITH CIRCUIT NUMBER USING AN ELECTRONIC LABELER (BLACK ON CLEAR).
- L. THE CONTRACTOR IS TO LAY OUT SERVICE ENTRANCE AND ELECTRIC ROOMS TO SCALE WITH ACTUAL GEAR TO BE INSTALLED TO ENSURE PROPER FIT AND CLEARANCES BEFORE INSTALLATION. COORDINATE ALL SERVICE CLEARANCE REQUIREMENTS WITH LOCAL UTILITY COMPANY. PROVIDE A 1/4" SCALE (MINIMUM) SHOP DRAWING. NOTIFY ARCHITECT/ENGINEERS OF ANY DIMENSIONAL PROBLEMS.
- M. COORDINATE AND WIRE ALL DOOR HOLD OPEN DEVICES, AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. ROUTE 120 VOLT POWER FROM NEAREST AVAILABLE CIRCUIT AS REQUIRED. PROVIDE ALL WIRING NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- N. CONDUITS ROUTED TO ROOF SHALL BE INSTALLED IN SAME ROOF JACK AS MECHANICAL ELEMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROOF JACK WHERE NO MECHANICAL ELEMENTS EXIST.
- O. PROVIDE SLEEVES FOR SPECIAL SYSTEMS ABOVE EACH DOOR INTO A RATED EGRESS CORRIDOR, (1-2" AND 3-3/4"). FIRE SEAL ENDS AND UNUSED SLEEVES SHALL HAVE A SCREW CAP INSTALLED ON BOTH SIDES. USE THREADED CONDUIT.
- P. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED AT A HEIGHT SO AS NOT TO BE VISIBLE AFTER INSTALLATION OF EWC. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING PROVIDED. PROTECT WITH GFCI BREAKER.
- Q. ALL CONDUITS ROUTED BELOW FINISHED FLOOR SHALL BE RUN BELOW THE GRADE BEAMS. CONDUITS AND MULTIPLE CONDUITS SHALL NOT PENETRATE GRADE BEAMS UNLESS COORDINATED WITH STRUCTURAL ENGINEER. OBTAIN WRITTEN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO BEGINNING WORK.
- R. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE AND BUILDING LINES. COORDINATE FINAL CONDUIT ROUTING PATH WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- S. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120 VOLT WIRING AND CONNECTIONS REQUIRED TO FIRE/SMOKE DAMPERS. COORDINATE EXACT LOCATIONS OF DAMPERS WITH MECHANICAL CONTRACTOR AND RELAY REQUIREMENTS WITH FIRE ALARM CONTRACTOR. CONNECT TO NEAREST AVAILABLE UNSWITCHED CIRCUIT UNLESS OTHERWISE INDICATED ON DRAWINGS.
- T. ELECTRICAL CONTRACTOR SHALL CONNECT MOTORIZED BACK DRAFT DAMPERS FOR EXHAUST FANS FROM CIRCUIT FEEDING FAN. PROVIDE ALL MATERIAL AND LABOR TO MAKE CONNECTIONS.
- U. ELECTRICAL CONTRACTOR SHALL WIRE ALL EXHAUST FANS TO BE CONTROLLED PER "EXHAUST FAN SCHEDULE" ON MECHANICAL SHEET. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SPRING WOUND TIMERS, ETC., AS REQUIRED PER SCHEDULE TO OPERATE AND CONTROL EXHAUST FAN. IF NO CONTROL IS SPECIFIED, EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS IN ANY ROOM IT SERVES ARE POWERED ON. REFERENCE DETAIL ON ELECTRICAL SHEET FOR ADDITIONAL INFORMATION.
- V. ELECTRICAL CONTRACTOR TO SEAL ALL PENETRATIONS OF ELECTRICAL WORK IN FIRE AND SMOKE RATED PARTITIONS, CEILINGS, ETC.
- W. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTING MEANS AND PROPER FUSING PROTECTION FOR ALL EQUIPMENT PER N.E.C. UNLESS OTHERWISE NOTED.
- X. COORDINATE ALL DEVICES IN MILLWORK WITH ARCHITECTURAL MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
- Y. SENSOR OPERATED PLUMBING DEVICES: PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS FROM MANUFACTURER. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION.
- Z. SPRAY PAINT JUNCTION BOXES RED FOR FIRE ALARM SYSTEM. ALL OTHER SPECIAL SYSTEM JUNCTION BOXES TO BE PAINTED WHITE.
- AA. DO NOT HANG ANY FIXTURES, EQUIPMENT OR CONDUIT FROM ROOF DECK.
- BB. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBERS.
- CC. IDENTIFY RECEPTACLE CIRCUITS IN PANELBOARDS TO INDICATE FINAL ROOM NUMBERS. VERIFY FINAL ROOM NUMBERS PRIOR TO TYPING PANELBOARD SCHEDULES.
- DD. MECHANICALLY FASTEN ALL LABELS TO EQUIPMENT.
- EE. ELECTRICAL CONTRACTOR TO OBTAIN "MECH/ELEC COORDINATION SHEET" FILLED OUT FROM MECHANICAL CONTRACTOR. THIS SHEET IS TO BE INCLUDED WITH ELECTRICAL GEAR/PANELBOARD SUBMITTAL. SUBMITTAL WILL NOT BE CHECKED WITHOUT THIS FORM INCLUDED.
- FF. ELECTRICAL CONTRACTOR IS TO PROVIDE ROUGH-IN FOR ALL MECHANICAL CONTROL DEVICES IN WALLS AND PENETRATIONS FOR CONTROL WIRES TO EXTERIOR UNITS. COORDINATE ALL LOCATIONS WITH MECHANICAL CONTRACTOR AND MECHANICAL SHEETS.
- GG. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.
- HH. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
- II. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 120 VOLT, WEATHERPROOF GFCI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL PIECES OF NEW OR REPLACEMENT MECHANICAL EQUIPMENT LOCATED ON ROOF, MEZZANINE OR ON THE GROUND. CONNECT TO NEAREST AVAILABLE UNSWITCHED 120 VOLT 20 AMP CIRCUIT WITH LESS THAN 6 RECEPTACLES OR RUN TO NEAREST PANELBOARD AND PROVIDE HOMERUN WITH NEW 20 AMP CIRCUIT BREAKER.

BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

NOTE:
A. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ALLOWED.

C - CONDUIT G - GROUND L - LINE OR PHASE N - NEUTRAL

MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM
①	2#12, 1/2" C.	LN	③1	3#4, 1#8G., 1" C.	LLG	⑥1	3#1/0, 1#6G., 2" C.	LLNG
②	2#12, 1#12G., 1/2" C.	LNG	③2	3#4, 1" C.	LLL	⑥2	3#1/0, 1#6G., 2" C.	LLLG
③	2#12, 1#12G., 1/2" C.	LLG	③3	3#4, 1#8G., 1" C.	LLNG	⑥3	4#1/0, 1#6G., 2" C.	LLNG
④	3#12, 1/2" C.	LLL	③4	3#4, 1#8G., 1" C.	LLLG	⑥4	2#2/0, 1 1/2" C.	LN
⑤	3#12, 1#12G., 1/2" C.	LLNG	③5	4#4, 1#8G., 1 1/4" C.	LLNG	⑥5	2#2/0, 1#4G., 1 1/2" C.	LNG
⑥	3#12, 1#12G., 1/2" C.	LLLG	③6	2#3, 1" C.	LN	⑥6	2#2/0, 1#4G., 1 1/2" C.	LLG
⑦	4#12, 1#12G., 1/2" C.	LLNG	③7	2#3, 1#8G., 1" C.	LNG	⑥7	3#2/0, 1 1/2" C.	LLL
⑧	2#10, 1/2" C.	LN	③8	2#3, 1#8G., 1" C.	LLG	⑥8	3#2/0, 1#4G., 2" C.	LLNG
⑨	2#10, 1#10G., 1/2" C.	LNG	③9	3#3, 1" C.	LLL	⑥9	3#2/0, 1#4G., 2" C.	LLLG
⑩	2#10, 1#10G., 1/2" C.	LLG	④0	3#3, 1#8G., 1 1/4" C.	LLNG	⑦0	4#2/0, 1#4G., 2" C.	LLNG
⑪	3#10, 1/2" C.	LLL	④1	3#3, 1#8G., 1 1/4" C.	LLLG	⑦1	2#3/0, 1 1/2" C.	LN
⑫	3#10, 1#10G., 1/2" C.	LLNG	④2	4#3, 1#8G., 1 1/4" C.	LLNG	⑦2	2#3/0, 1#4G., 2" C.	LNG
⑬	3#10, 1#10G., 1/2" C.	LLLG	④3	2#2, 1" C.	LN	⑦3	2#3/0, 1#4G., 2" C.	LLG
⑭	4#10, 1#10G., 1/2" C.	LLNG	④4	2#2, 1#8G., 1" C.	LNG	⑦4	3#3/0, 2" C.	LLL
⑮	2#8, 1/2" C.	LN	④5	2#2, 1#8G., 1" C.	LLG	⑦5	3#3/0, 1#4G., 2" C.	LLNG
⑯	2#8, 1#10G., 3/4" C.	LNG	④6	3#2, 1 1/4" C.	LLL	⑦6	3#3/0, 1#4G., 2" C.	LLLG
⑰	2#8, 1#10G., 3/4" C.	LLG	④7	3#2, 1#8G., 1 1/4" C.	LLNG	⑦7	4#3/0, 1#4G., 2 1/2" C.	LLNG
⑱	3#8, 3/4" C.	LLL	④8	3#2, 1#8G., 1 1/4" C.	LLLG	⑦8	2#4/0, 2" C.	LN
⑲	3#8, 1#10G., 3/4" C.	LLNG	④9	4#2, 1#8G., 1 1/4" C.	LLNG	⑦9	2#4/0, 1#4G., 2" C.	LNG
⑳	3#8, 1#10G., 3/4" C.	LLLG	⑤0	2#1, 1 1/4" C.	LN	⑧0	2#4/0, 1#4G., 2" C.	LLG
㉑	4#8, 1#10G., 1" C.	LLNG	⑤1	2#1, 1#6G., 1 1/4" C.	LNG	⑧1	3#4/0, 2" C.	LLL
㉒	2#6, 3/4" C.	LN	⑤2	2#1, 1#6G., 1 1/4" C.	LLG	⑧2	3#4/0, 1#4G., 2 1/2" C.	LLNG
㉓	2#6, 1#10G., 3/4" C.	LNG	⑤3	3#1, 1 1/2" C.	LLL	⑧3	3#4/0, 1#4G., 2 1/2" C.	LLLG
㉔	2#6, 1#10G., 3/4" C.	LLG	⑤4	3#1, 1#6G., 1 1/2" C.	LLNG	⑧4	4#4/0, 1#4G., 2 1/2" C.	LLNG
㉕	3#6, 3/4" C.	LLL	⑤5	3#1, 1#6G., 1 1/2" C.	LLG			
㉖	3#6, 1#10G., 3/4" C.	LLNG	⑤6	4#1, 1#6G., 1 1/2" C.	LLNG			
㉗	3#6, 1#10G., 3/4" C.	LLLG	⑤7	2#1/0, 1 1/4" C.	LN			
㉘	4#6, 1#10G., 1" C.	LLNG	⑤8	2#1/0, 1#6G., 1 1/2" C.	LNG			
㉙	2#4, 3/4" C.	LN	⑤9	2#1/0, 1#6G., 1 1/2" C.	LLG			
③0	2#4, 1#8G., 1" C.	LNG	⑥0	3#1/0, 1 1/2" C.	LLL			

DEVICE SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. ALL DEVICE PART NUMBERS ARE HUBBELL UNLESS OTHERWISE NOTED.
C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	REMARKS
⊖	SINGLE RECEPTACLE 20A/120V 18" AFF UON	HBL 5361-W
⊖	DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20-W
u ⊖	DUPLEX RECEPTACLE WITH DUAL USB 20A/120V 18" AFF UON	USB20X2W
⊖	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH GROUND FAULT INTERRUPTER	GF20LA
⊖	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH ISOLATED/INSULATED GROUND	CR5352IG
⊖	FOURPLEX RECEPTACLE 20A/120V 18" AFF UON	(2) CR20-W
u ⊖	FOURPLEX RECEPTACLE 20A/120V, (1) WITH DUAL USB 18" AFF UON	(1) CR20-W, (1) USB20X2W
⊖	CLOCK RECEPTACLE 120V 96" AFF UON	HBL 5235
⊖	SPECIAL PURPOSE RECEPTACLE 18" AFF SEE PLANS FOR DETAILS	
⊖	CEILING MOUNTED DUPLEX RECEPTACLE 20A/120V (FLUSH)	CR20-W
⊖	DUPLEX RECEPTACLE 20A/120V MOUNTED HORIZONTALLY 48" AFF UON	CR20-W
P ⊖	FOURPLEX RECEPTACLE FOR PROJECTOR	
WP ⊖	WEATHER/TAMPER-RESISTANT DUPLEX RECEPTACLE WITH "IN-USE" COVER 20A/120V 18" AFF UON	GFTR20W/ WP26M
⊖	8" ABOVE COUNTER - GFI	
se ⊖	DUPLEX RECEPTACLE W/ SURGE SUPPRESSION 20A/120V 18" AFF UON	IG5362-SA
s ⊖	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20TR-W
⊖	DUPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	CR20-W, WPFBRG1 SB3083, S3825
⊖	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	(2) HBL-5362-W, WPFBRG2 SB3084, (2) S3825
⊖	EXISTING DUPLEX RECEPTACLE	
⊖	EXISTING FOURPLEX RECEPTACLE	
⊖	EXISTING 208V RECEPTACLE	
\$	SINGLE POLE SWITCH 20A, 48" AFF UON	CS120-W
\$P	DIMMER SWITCH, 48" AFF UON, SEE PLANS FOR DETAILS	
\$P	SWITCH WITH PILOT LIGHT, 48" AFF UON	HBL1221-PL
\$P	TWO POLE SWITCH 20A, 48" AFF UON	CS1222-W
\$T	TIMER SWITCH, 48" AFF UON	INTERMATIC FF60MC
\$F	FAN SWITCH, 48" AFF UON	RF51

DISTRIBUTION SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

SYMBOL	DESCRIPTION	REMARKS
—	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
—f—	CIRCUIT ROUTED THRU CONTACTOR OR RELAY	
—UE—	UNDERGROUND ELECTRIC	
—UT—	UNDERGROUND TELEPHONE	
—OE—	OVERHEAD ELECTRIC	
—OT—	OVERHEAD TELEPHONE	
—H±—	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCHLEG)	
⊙	PHOTOCELL	
⊙	JUNCTION BOX	
⊙	JUNCTION BOX, FLOOR MOUNTED FLUSH	
⊙	JUNCTION BOX, WALL MOUNTED - 3/4" C TO ABOVE CEILING	
\$M	MANUAL STARTER WITH THERMAL TRIP	
⊞	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
⊞	STARTER	
⊞	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
⊞	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
⊞	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
⊞	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	

ELECTRICAL ABBREVIATION SCHEDULE

A	AMPERES	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MISC	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUG ONLY
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
BFF	BELOW FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BLDG	BUILDING	NF	NON-FUSED
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CKT	CIRCUIT	OC	ON CENTER(S)
COL	COLUMN	OE	OVERHEAD ELECTRIC
CONC	CONCRETE	OT	OVERHEAD TELEPHONE
CONST	CONSTRUCTION	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RE	REFERENCE/REFER TO
EF	EXHAUST FAN	RECP	RECEPTACLE
DN	DOWN	RCS	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRIC/ELECTRICAL	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	SCH	SCHEDULE
EQUIP	EQUIPMENT	SPEC	SPECIFICATIONS
EX	EXISTING	TEL	TELEPHONE
FA	FIRE ALARM	TB	TELEPHONE TERMINAL BOARD
FF	FINISHED FLOOR	TYP	TYPICAL
FLR	FLOOR/FLOORING	UC	UNDERGROUND CONDUIT
G	GROUND	UE	UNDERGROUND ELECTRIC
GC	GENERAL CONTRACTOR	UL	UNDERWRITER'S LABORATORIES
GFI	GROUND FAULT INTERRUPT	UON	UNLESS OTHERWISE NOTED
HD	HEAVY DUTY	UT	UNDERGROUND TELEPHONE
HP	HORSEPOWER	V	VOLTS/VOLTAGE
INT	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERES
KVA	KILOVOLT-AMPERES	W	WATTS
KW	KILOWATTS	W/O	WITHOUT
LGT	LIGHT/LIGHTING	WP	WEATHER PROOF
MAX	MAXIMUM	XFMR	TRANSFORMER
MC	MECHANICAL CONTRACTOR		
MCB	MAIN CIRCUIT BREAKER		
MDP	MAIN DISTRIBUTION PANEL		

SPECIAL SYSTEMS SCOPE

ACCESS CONTROL SYSTEM
1. REFERENCE TECHNOLOGY DRAWINGS
2. NO 120V POWER PROVIDED FOR DOOR HARDWARE

SECURITY SYSTEM
1. REFERENCE TECHNOLOGY DRAWINGS
2. 120V POWER PROVIDED FOR SECURITY PANELS ONLY

TECHNOLOGY SYSTEM
1. REFERENCE TECHNOLOGY DRAWINGS

INTERCOM SYSTEM
1. REFERENCE TECHNOLOGY DRAWINGS

FIRE ALARM SYSTEM
1. PROVIDE NEW SYSTEM IN NEW CAREER CENTER AT HIGH SCHOOL. REFERENCE SPECIFICATIONS.
2. PROVIDE NEW DEVICES AND WIRING FOR ELEMENTARY SCHOOL. CONNECT TO EXISTING FIRE ALARM SYSTEM. REFERENCE SPECIFICATIONS.



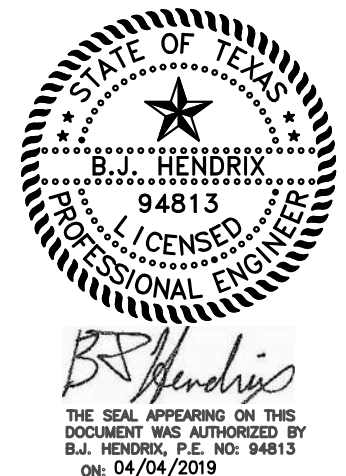
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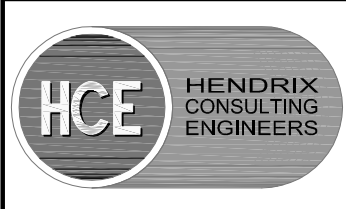
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Brady Independent School District
Bond 2018
Brady, Texas



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Revision:	
Project Number	1703
Date:	04/04/2019
Sheet Number	

DISCONNECT SWITCH SCHEDULE

REMARKS:

A. THIS SCHEDULE IS NOT A COMPREHENSIVE DISCONNECT SCHEDULE. REFERENCE OTHER ELECTRICAL CONNECTION SCHEDULES FOR ADDITIONAL DISCONNECT REQUIREMENTS.

B. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN.

C. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.

D. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C.

E. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.

F. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C.

G. **DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.**

H. **ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.**

** **U.O.N. FOR ALL PANELS SUBFED FROM TRANSFORMERS THAT REQUIRE DISCONNECT, REFERENCE TRANSFORMER SCHEDULE SECONDARY BREAKER SIZE FOR ALL ENCLOSURE TYPE AND DISCONNECT/FUSE SIZING INFORMATION.**

MARK	VOLTAGE			AMPERES RATING			POLES			ENCLOSURE			FUSES			REMARKS
	120	240	480	30	60	100	1	2	3	S/N	NEW 1	NEW 3R	NON-FUSED	FUSE SIZE	ENCLOSED CIRCUIT BREAKER	
◇	120	240	480	30	60	100	1	2	3	S/N	NEW 1	NEW 3R	NON-FUSED	FUSE SIZE	ENCLOSED CIRCUIT BREAKER	
◇														400	PANEL 'L1'	
◇														600	PANEL 'LDP'	

NLIGHT - DEVICE SYMBOL SCHEDULE

NOTES:

A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

B. ALL DEVICE PART NUMBERS ARE **NLIGHT** UNLESS OTHERWISE NOTED.

C. THESE DEVICES SHOULD BE USED IN ALL AREAS TO BE CONTROLLED BY NLIGHT.

D. MOTION SENSOR: WHERE MOTION SENSORS ARE SHOWN ON THE PLANS, THAT INDICATES AREA SHOULD BE COVERED IN FULL BY MOTION SENSORS. IT IS UP TO MOTION SENSOR PROVIDER TO PROVIDE APPROPRIATE QUANTITY, LAYOUT, AND TYPE OF MOTION SENSORS FOR COMPLETE COVERAGE. PROVIDE SHOP DRAWING AT SUBMITTAL PHASE.

E. PHOTOCELL: WHERE PHOTOCELLS ARE SHOWN ON PLANS OR IN TYPICAL DETAILS, IE: CLASSROOMS, PHOTOCELL LOCATION AND QUANTITY SHOULD BE DETERMINED BY PHOTOCELL PROVIDER. PHOTOCELLS ARE INTENDED TO DIM LIGHTS IN DAYLIGHT ZONES AS INDICATED BY IECC 2015.

F. IF MULTIPLE ZONE CONTROL IS INDICATED FOR A SPACE AND THOSE ZONES ARE NOT CLEAR TO CONTRACTOR, THE CONTRACTOR IS TO MAKE BEST ASSUMPTION IN SHOP DRAWING PHASE AND NOTE AREAS IN QUESTION. ENGINEER WILL REVIEW AND MAKE ANY ADJUSTMENTS TO ZONES AT THAT TIME.

G. MANUFACTURER TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS INDICATING ALL ASPECTS OF LIGHTING CONTROL AT A MINIMUM OF 1/8" = 1' SCALE WITH CLEAR DESCRIPTIONS AND LEGENDS FOR SYMBOLS.

H. BASIC COMPONENTS ARE CALLED FOR HERE, IT IS EXPECTED THAT MANUFACTURER PROVIDES ALL COMPONENTS FOR A COMPLETE WORKABLE SYSTEM.

I. **FACTORY START-UP IS REQUIRED FOR ALL NLIGHT SPACES.**

J. CONTRACTOR SHOULD SEND COMPLETE SET OF ELECTRICAL PLANS TO NLIGHT FACTORY REP TO ENSURE A COMPLETE BID.

K. CONTRACTOR TO ASSUME ALL DEVICES INTER-CONNECTED WITH CAT-5 CABLE. PROVIDE ALL REQUIRED CABLING BETWEEN DEVICES.

SYMBOL	DESCRIPTION	REMARKS
Ⓢ ^{DT}	DUAL TECHNOLOGY WALL MOUNT MOTION AND DIMMING	nWSX-PDT-D-SA
Ⓢ ¹	ONE ZONE CONTROLLER, ON/OFF AND DIMMING	nPODM-DX
Ⓢ ²	TWO ZONE CONTROLLER, ON/OFF AND DIMMING	nPODM-2P-DX
Ⓢ ⁴	FOUR ZONE CONTROLLER, 4 PRESET TOGGLE BUTTONS	nPODM-4S-DX
Ⓢ ^K	ONE ZONE KEYED CONTROLLER, ON/OFF AND DIMMING	nPOD-KEY
Ⓢ ^{CT}	COLOR SCENE CONTROLLER	nPODM-4S-EDUTW
Ⓜ ^{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-9
Ⓜ ^{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-10
Ⓜ ^{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nWV-PDT-16
Ⓟ	PHOTOCELL	nCM-ADCX

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE. PROVIDE FLANGE KIT FOR PROPER INSTALLATION OF LAY-IN FIXTURE IN GYPSUM CEILING. PROVIDE FIXTURE TYPE 'H2' IN LIEU OF FIXTURE TYP 'A2' IN ROOMS WITH NO CEILING. CHAIN HANG AT 10' A.F.F.

B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.

D. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.

E. 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT (LITHONIA PS1400 OR EQUAL). LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED.

F. 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT (LITHONIA PS1400 OR EQUAL). LIGHT FIXTURE AND BATTERY PACK SHALL BE UNSWITCHED.

G. FIXTURES SHALL HAVE A MAXIMUM OF TWO (2) LAMPS PER BALLAST.

H. CONNECT ALL EXIT LIGHTING TO THE NEAREST UNSWITCHED CIRCUIT OR THE NEAREST EMERGENCY CIRCUIT.

(*) PROVIDE UNIT PRICE FOR THIS FIXTURE. INCLUDE MATERIAL AND LABOR TO BE ADDED AT ANY TIME DURING THE PROJECT.

MARK	MANUFACTURER'S CATALOG NUMBER	LAMPS NO./TYPE/WATTS	FIXTURE VOLTS/WATTS	DESCRIPTION AND COMMENTS
A2	LITHONIA EPANL-2X4-4000LM-80CRI-35K-MIN1-EZT-MVOLT	1/LED 4000 LUMENS/39	MVOLT/39	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1% DIMMING, GRID CLG
A3	LITHONIA EPANL-2X4-4800LM-80CRI-35K-MIN1-EZT-MVOLT	1/LED 4800 LUMENS/46	MVOLT/46	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1% DIMMING, GRID CLG
A4	LITHONIA EPANL-2X4-6000LM-80CRI-35K-MIN1-EZT-MVOLT	1/LED 6000 LUMENS/54	MVOLT/54	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1% DIMMING, GRID CLG
B2	LITHONIA EPANL-2X2-4800LM-80CRI-35K-MIN1-MVOLT	1/4618L/36	MVOLT/36	LED PANEL 2 x 2 LAY IN FIXTURE, WHITE FINISH 1% DIMMING, GRID CEILING.
C2	LITHONIA EPANL-2X4-4000LM-80CRI-35K-MIN1-EZT-MVOLT-DGA24	1/LED 4000 LUMENS/39	MVOLT/39	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1% DIMMING, GYP CLG, PROVIDE DRYWALL ADAPTER.
C3	LITHONIA EPANL-2X4-4800LM-80CRI-35K-MIN1-EZT-MVOLT-DGA24	1/LED 4800 LUMENS/46	MVOLT/46	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1% DIMMING, GYP CLG, PROVIDE DRYWALL ADAPTER.
F6	LITHONIA HP-4ID-8-V/V-8TW-TG-F-120-FA-FE-DC-C1-CONTROLS BY OTHERS, DMX DRIVER	1/LED 4180 LUMENS/41 1/LED 3706 LUMENS/41	MVOLT/41 MVOLT/41	(OPEN/HARD CEILING) 4" INDIRECT/DIRECT TUNABLE WHITE LINEAR PENDANT. VERY HIGH UP/ VERY HIGH DOWN. PROVIDE 150" MOUNTING AIRCRAFT CABLE, COORDINATE LONGER IF REQUIRED. TOP GLOW LENS. VERIFY TRIM/LOCATION/LENGTH WITH ARCHITECTS RCP. 1% DIMMING, NLIGHT. CONTROL UPLIGHT SEPARATE FROM DOWNLIGHT.
G1	LITHONIA WL2-18L-MVOLT-LP835-EZ1-NLIGHT	1/LED 1800 LUMENS/20	MVOLT/20	2' SURFACE MOUNT WRAP AROUND LED. MOUNT 6" ABOVE MIRROR, OR 8" ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIM, NLIGHT
G2	LITHONIA WL4-41L-MVOLT-LP835-EZ1-NLIGHT	1/LED 4100 LUMENS/43	MVOLT/43	4' SURFACE MOUNT WRAP AROUND LED. MOUNT 6" ABOVE MIRROR, OR 8" ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIM, NLIGHT
H2	LITHONIA CLX-L48-5000LM-SEF-FDL MVOLT-EZ1-35K-80CRI-WH	1/LED 4725 LUMENS/41	MVOLT/41	LED STRIP FIXTURE. CHAIN HANG, AIRCRAFT CABLE OR SURFACE MOUNT DEPENDING ON APPLICATION. TYPICAL MOUNTING HEIGHT APPROX 8'-12'. 1% DIMMING, NLIGHT
L2	LITHONIA LDN6-35-2000-L06-AR-LD-MVOLT-EZ1-NLIGHT	1/LED 2000 LUMENS/35	MVOLT/35	6" LED DOWNLIGHT. TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIM, NLIGHT
L3	LITHONIA LDN6-35-2000-LW6-AR-LD-MVOLT-EZ1-NLIGHT	1/LED 2000 LUMENS/35	MVOLT/35	6" LED WALL WASHER. TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1% DIM, NLIGHT
N1	LITHONIA TMSL-16000-SBL-MVOLT-GZ10 35K-80CRI-WHITE-ZACFPD120-WGM8Z-NLIGHT	1/LED 17412 LUMENS/149	MVOLT/149	LED LOW BAY FIXTURE. STRAIGHT BLADE LOUVER, 0-10% DIMMING, WHITE FINISH AND WIREGUARD. HANG FIXTURES AT 12' AFF. COORDINATE WITH ARCHITECTURAL RCP. NLIGHT
T1	VISIONAIRE LIGHTING VSC-1-13-32-530-4000K-UNV-WM-BZ-WSC-20-DIM	1/LED ENGINES/54	MVOLT/54	SLIM ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH FSP-211 FOR MOTION DIMMING TO 50% AFTER MIDNIGHT AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 12-14" AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL.
T5	VISIONAIRE LIGHTING VSC-1-13-16-530-4000K-UNV-WM-BZ-WSC-X-DIM	1/LED ENGINES/27	MVOLT/27	SLIM ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH FSP-211 FOR MOTION DIMMING TO 50% AFTER MIDNIGHT AND PHOTOCELL CONTROL. DARK BRONZE FINISH. OVER DOOR OR TO SIDE OF DOOR AS SHOWN ON PLANS. APPROX 8'-10" AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. PROVIDE WITH EMERGENCY BALLAST.
T6	KENALL MILLINIUM WRT13FL-PP-SL-20L40K-DV	1/LED 1017 LUMEN/18	MVOLT/18	SURFACE MOUNTED ROUND LED FIXTURE. MARINE GRADE DIE CAST ALUMINUM. HIGH IMPACT POLYCARBONATE LENS. SILVER FINISH. PROVIDE (2) POSIGRIP SCREWDRIVERS.
X1	LITHONIA LES-1R-277-ELN	INCLUDED	277/5	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK.
X2	LITHONIA LES-2R-277-ELN	INCLUDED	277/5	LED DOUBLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK.
Y1	LITHONIA ELM2-LED	INCLUDED	277/20	EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. WHITE FINISH. WALL MOUNT APPROX 9' AFF. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT.

NLIGHT INTERIOR LIGHTING SCHEDULE

GENERAL NOTES:

POWER PACKS
FOR FIXTURES THAT ARE NOT NLIGHT COMPATIBLE, PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS.

AREAS WITH HIGH CEILINGS (25FT OR HIGHER). PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS. LOCATE POWER PACKS IN ACCESSIBLE LOCATION FROM LIGHTING PANEL SERVING CIRCUITS.

WHEN POWER PACKS ARE PROVIDED. CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL IN LIEU OF CAT5 CABLE.

NLIGHT MANUFACTURER TO PROVIDE NLIGHT ENABLED FIXTURES OR POWER PACKS TO ACHIEVE ZONING SHOWN ON PLANS FOR SWITCHING AND DAYLIGHT ZONES TO PROVIDE BEST VALUE TO THE PROJECT.

MOTION SENSORS
PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR ENTIRE BUILDING, EXCEPT ELECTRIC ROOMS, AND AS WHEN NOTED EXCEPTION SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC 2015. ASSUME CEILING MOUNT UNLESS WALL MOUNT SHOWN.

VACANCY SENSORS
PROVIDE COMPLETE DUAL TECHNOLOGY VACANCY SENSOR COVERAGE PER IECC 2015 IN ALL AREAS EXCEPT EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

OCCUPANCY SENSORS
PROVIDE COMPLETE DUAL TECHNOLOGY OCCUPANCY SENSOR COVERAGE PER IECC 2015 IN ALL EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

CONTROL STATION
ALL ROOMS SHALL HAVE A CONTROL STATION FOR CONTROL OF LIGHTS IN ROOM. IF NO CONTROL STATION IS SHOWN, ASSUME A TWO ZONE CONTROLLER FOR ROOMS LARGER THAN 9' X 9' AND A WALL MOUNT DUAL TECHNOLOGY CONTROLLER FOR ROOMS SMALLER THAN 9' X 9'.

PROGRAMMING FOR SPECIAL CONTROLLERS
PROVIDE MINIMUM 2 DAYS FOR PROGRAMMING AND OWNER TRAINING FOR THE NPOD GFX AND TIVOCUE LIGHTING CONTROLLERS SPECIFIED BELOW. COORDINATE WITH OWNER FOR ALL SCENE PROGRAMMING INCLUDING SPECIFIC SCENES SPECIFIED IN THE SECTIONS BELOW AND OTHERS THAT THE OWNER MAY REQUEST.

SPACE TYPE DESCRIPTION:

GENERAL INSTRUCTION ROOMS

A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.

B. TWO ZONE CONTROL. ZONE 'a' ZONE 'b' AS SHOWN IN PLANS AND AS DESCRIBED BELOW:
1. ROOMS WITH UPLIGHTS AND DOWNLIGHTS. ZONE 'a' - DOWNLIGHTS. ZONE 'b' - UPLIGHTS.
2. ROOMS WITH DOWNLIGHTS ONLY. ZONE 'a' - ROW OF LIGHTS AT TEACHING WALL. ZONE 'b' - ALL OTHER LIGHTS IN ROOM. U.O.N.

C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF. SHOP DRAWING REQUIRED.

D. PROVIDE PHOTOCELL AND CONTROL LIGHTS IN DAYLIGHT ZONE PER IECC 2015 AS SHOWN ON PLANS.

COMMON AREAS

A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.

B. TWO (2) BUTTON ZONE CONTROL. ZONES INDICATED ON PLANS.

C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON. WHEN NO MOTION IS DETECTED AFTER 15 MINUTES, LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 30 MINUTES, LIGHTS SHALL POWER OFF. SHOP DRAWING REQUIRED.

HALLWAYS AND STAIRWELLS

A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS. ANY CONTROL STATION IN A CONTINUOUS CORRIDOR IS TO CONTROL THE ENTIRE CORRIDOR, NOT PORTIONS THEREOF. U.O.N. ON PLANS.

B. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON. WHEN NO MOTION IS DETECTED AFTER 15 MINUTES, LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 2 HOURS, LIGHTS SHALL POWER OFF.

GANG RESTROOMS

A. PROVIDE ON/OFF CONTROL STATIONS AS SHOWN ON PLANS.

B. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON. WHEN NO MOTION IS DETECTED AFTER 15 MINUTES, LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 30 MINUTES, LIGHTS SHALL POWER OFF.

C. PROVIDE NLIGHT PLUG LOAD POWER PACK (nP20 PL) IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL.

SINGLE ZONE ROOMS

A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.

B. ONE OVERALL ZONE TO CONTROL ALL LIGHTS IN ROOM.

C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF. SHOP DRAWING REQUIRED.

a. PROVIDE NLIGHT PLUG LOAD POWER PACK (nP20 PL) IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL IN SINGLE RESTROOMS.

PANELBOARD CONNECTION SCHEDULE

A. USE TABLE FOR WIRE AND CONDUIT SIZES FOR ALL PANELBOARDS UNLESS NOTED OTHERWISE.

B. WIRE SIZES BASED ON 86° AMBIENT, 75° COLUMN OF CHART. NEC 310.15(B)(16)

C. TABLE FOR 120/208/3PH/4W AND 277/480/3PH/4W PANELBOARDS.

D. PROVIDE 200% NEUTRAL BUS BAR AND 200% NEUTRAL WIRE WHEN SPECIFIED.

PANEL SIZE OR MCB SIZE	WIRE SIZE	GROUND	CONDUIT
60	4 #6	#10	1"
100	4 #3	#8	1 1/4"
125	4 #1	#6	1 1/2"
150	4 #1/0	#6	2"
200	4 #3/0	#6	2"
225	4 #4/0	#4	2 1/2"
300	4 #350	#4	3"
400	2 SETS 4 #3/0 OR 1 SET 4 #600	#3	2" PER SET 4"
600	2 SETS 4 #350	#1	3" PER SET
800	2 SETS 4 #600	#1/0	4" PER SET

PANELBOARD CONNECTION SCHEDULE (1 PH)

A. USE TABLE FOR WIRE AND CONDUIT SIZES FOR ALL PANELBOARDS UNLESS NOTED OTHERWISE.

B. WIRE SIZES BASED ON 86° AMBIENT, 75° COLUMN OF CHART. NEC 310.15(B)(16)

C. TABLE FOR 120/240/1PH/3W PANELBOARDS.

D. PROVIDE 200% NEUTRAL BUS BAR AND 200% NEUTRAL WIRE WHEN SPECIFIED.

PANEL SIZE OR MCB SIZE	WIRE SIZE	GROUND	CONDUIT
50	3 #8	#10	1"
60	3 #6	#10	1"
70	3 #4	#8	1 1/4"
100	3 #3	#8	1 1/4"
125	3 #1	#6	1 1/2"
150	3 #1/0	#6	2"
200	3 #3/0	#6	2"
225	3 #4/0	#4	2 1/2"
300	3 #350	#4	3"
400	2 SETS 3 #3/0 OR 1 SET 3 #600	#3	2" PER SET 4"
600	2 SETS 3 #350	#1	3" PER SET
800	2 SETS 3 #600	#1/0	4" PER SET

CEILING FANS

MARK NO.	STOCK / MODEL NUMBER	MAX RPM	HP	VOLT/PH/AMPS	FAN DIAMETER	WEIGHT
CF-3	BIG ASS FAN HAIKU	33/180	FRACTION	120/1/0.363A	60"	16



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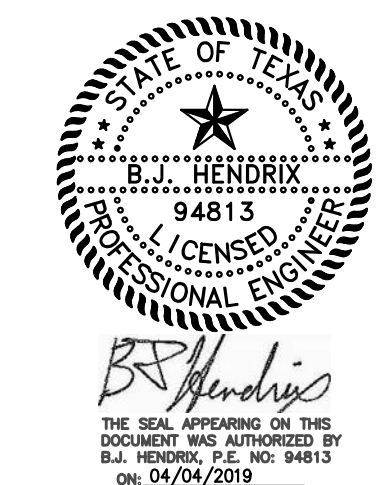
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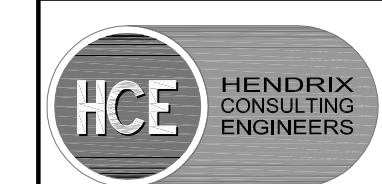
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REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION

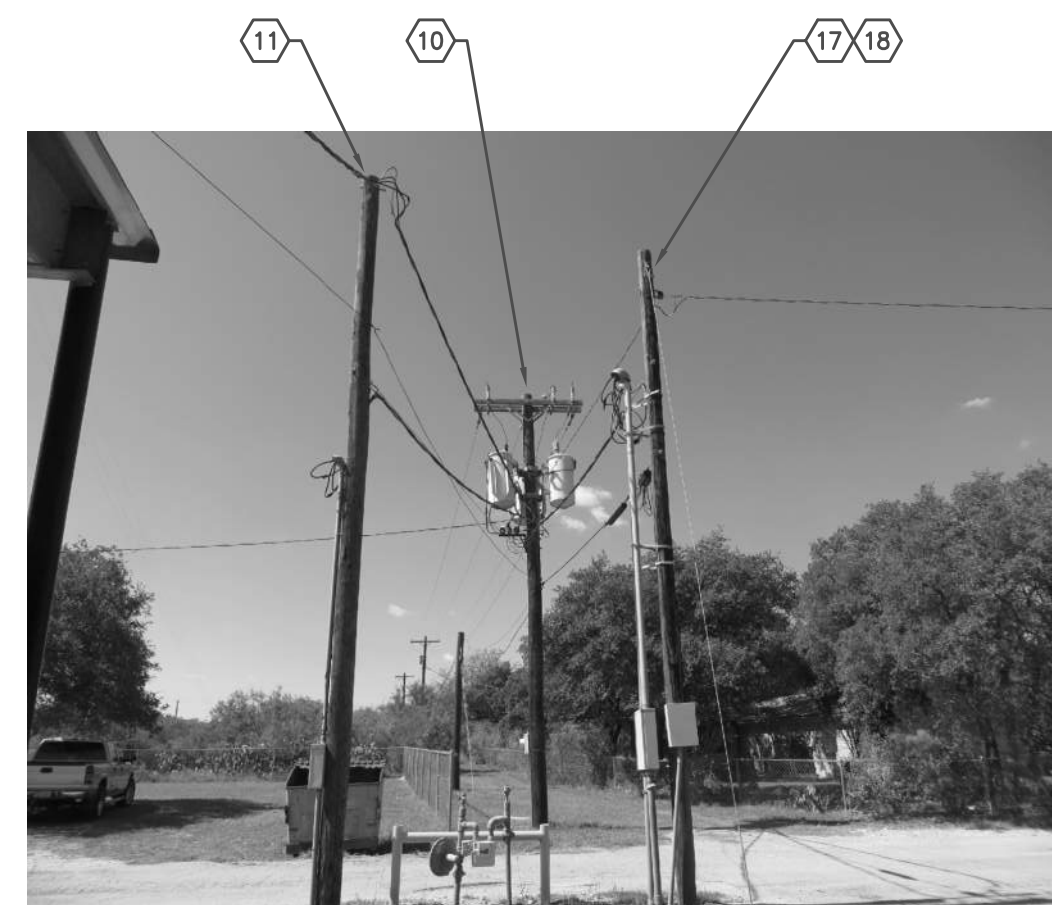


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Brady Independent School District
Bond 2018
Brady, Texas

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04/04/2019
HCE job no.: 19-004
Sheet Number



01 PHOTO
SCALE: NONE



02 PHOTO - EXISTING ELEMENTARY
SCALE: NONE

SURGE PROTECTION DEVICE SCHEDULE

- STANDARDS:**
- A. PROVIDE TVSS SURGE SUPPRESSION PER LATEST UL. BASIS OF DESIGN, ACT COMMUNICATIONS. CONTACT SWMCO (512) 965-6784.
 - B. TVSS MUST BE ABLE TO BE SERVICEABLE WITHOUT SHUTTING PANEL OFF.
 - C. 3RD PARTY SINGLE IMPULSE SURGE CURRENT TEST MUST BE PROVIDED WITH SUBMITTAL VERIFYING PERFORMANCE MEETS SPECIFICATIONS.
 - D. WHERE FLUSH MOUNT PANELS ARE SPECIFIED, COORDINATE PANEL MANUFACTURER OPTION WITH ELECTRICAL CONTRACTOR.
 - E. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - F. VOLTAGE AND CONFIGURATION TO MATCH PANEL BEING SERVICED. REFERENCE RISER DIAGRAM AND PANEL SCHEDULES.
 - G. PROVIDE ADVANCED FILTER OPTION (FA2).
 - H. 20 YEAR WARRANTY STANDARD.
 - I. CABLE ENTRY TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
 - J. QUANTITIES PER RISER DIAGRAM.
 - K. PROVIDE 'NEMA 12/4' WHEN ROOF MOUNTED. REFERENCE PLANS AND RISER DIAGRAM.

MARK	TYPE	SURGE CURRENT RATING (KA PER MODE/KA PER PHASE)	ENCLOSURE	MONITORING	MOUNT	APPLICATION (WHERE SPECIFIED ON RISER)
(1)	471 SEL	455F	MD	C1	SURFACE FLUSH (C)	SERVICE ENTRANCE
(2)	471	455F	MF	C2	HPI LABEL	DISTRIBUTION PANELS
(3)	455F	50/100	MD	M4		BRANCH PANELS
(4)	50/100	80/160	MF			TECHNOLOGY PANELS
(5)	80/160	100/200				DISTRIBUTION PANELS - FLUSH MOUNT
(6)	100/200	125/250				BRANCH PANELS - FLUSH MOUNT
(7)	125/250	160/320				
(8)	160/320	200/400				
(9)	200/400	250/480				
(10)	250/480	300/600				
(11)	300/600					

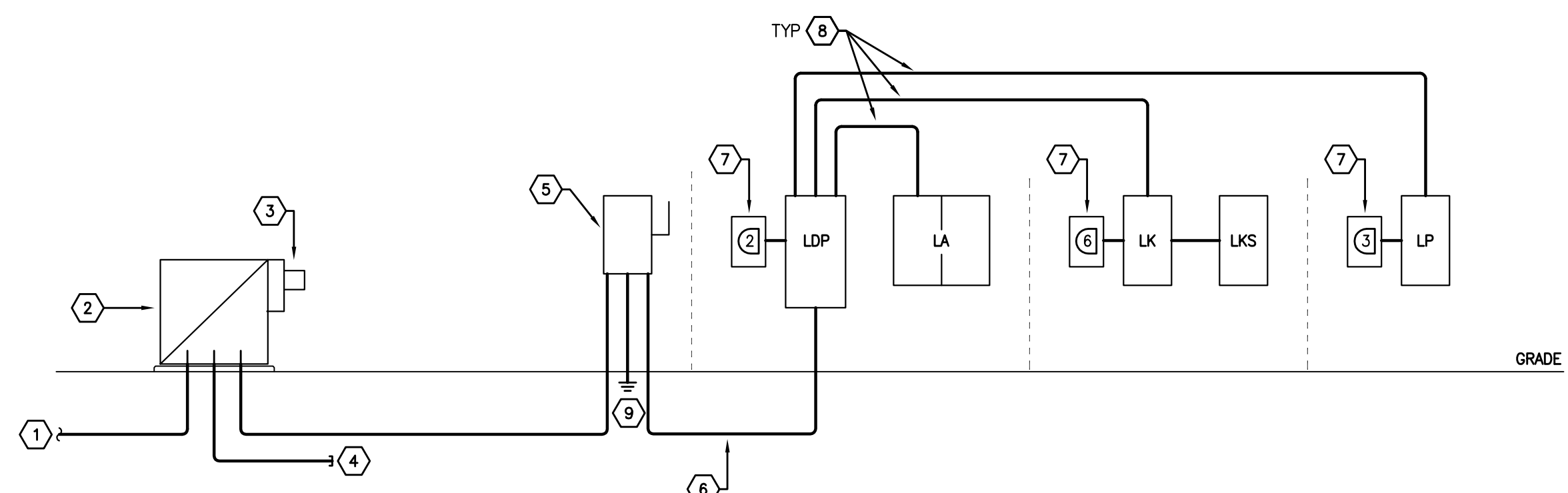
UTILITY COMPANY CONTACT:
CITY OF BRADY ELECTRIC

ELECTRIC SUPERVISOR:
JOE SOLIS
PHONE: (325) 597-2244
EMAIL: jsolis@bradytx.us

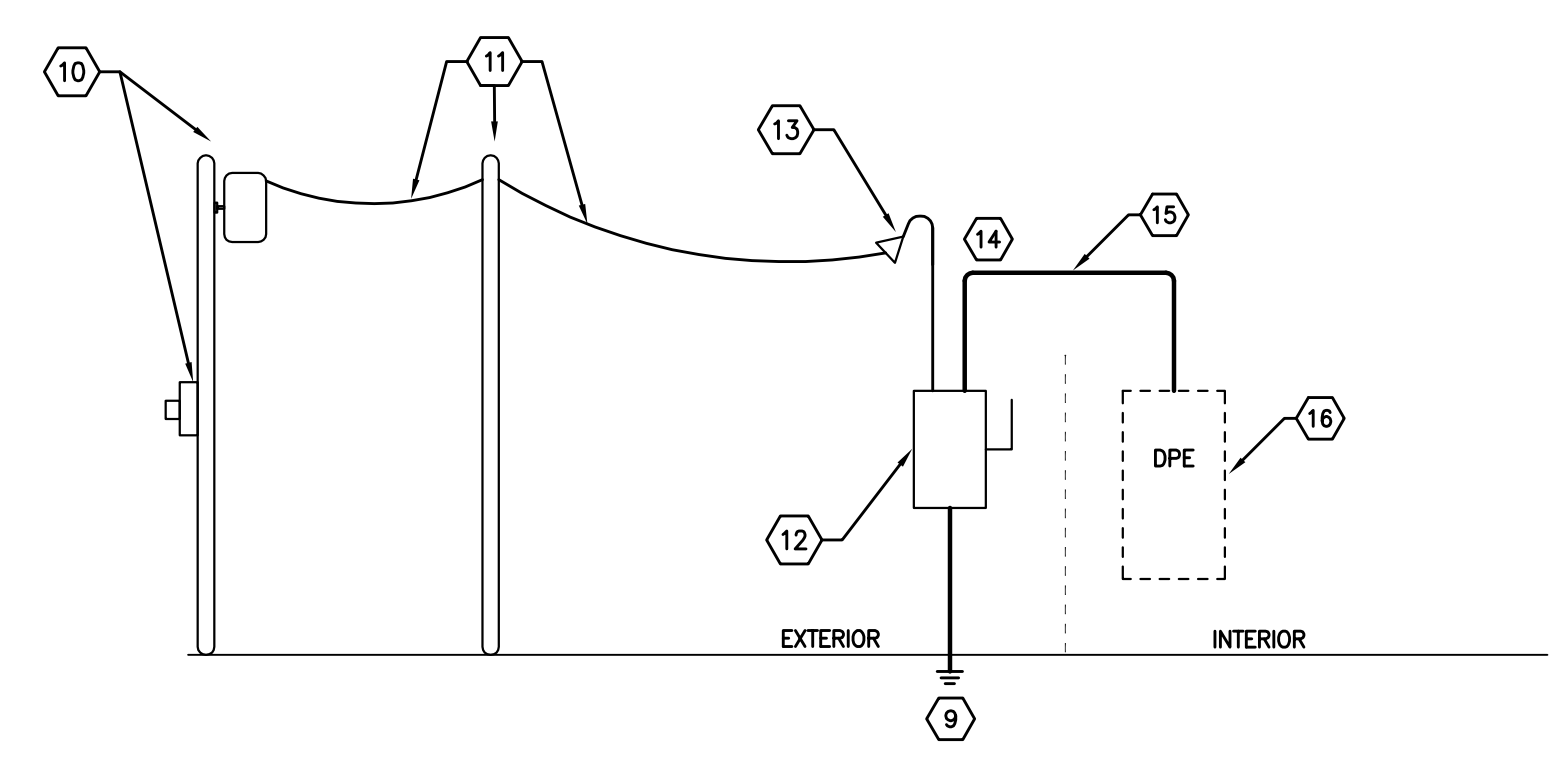
UTILITY COMPANY TO DETERMINE SERVICE TRANSFORMER SIZES. DO NOT BEGIN ANY UTILITY WORK UNTIL UTILITY DRAWINGS HAVE BEEN ISSUED BY UTILITY COMPANY. UTILITY COMPANY TO PROVIDE AVAILABLE FAULT CURRENT WHEN AVAILABLE.

RISER KEYED NOTES

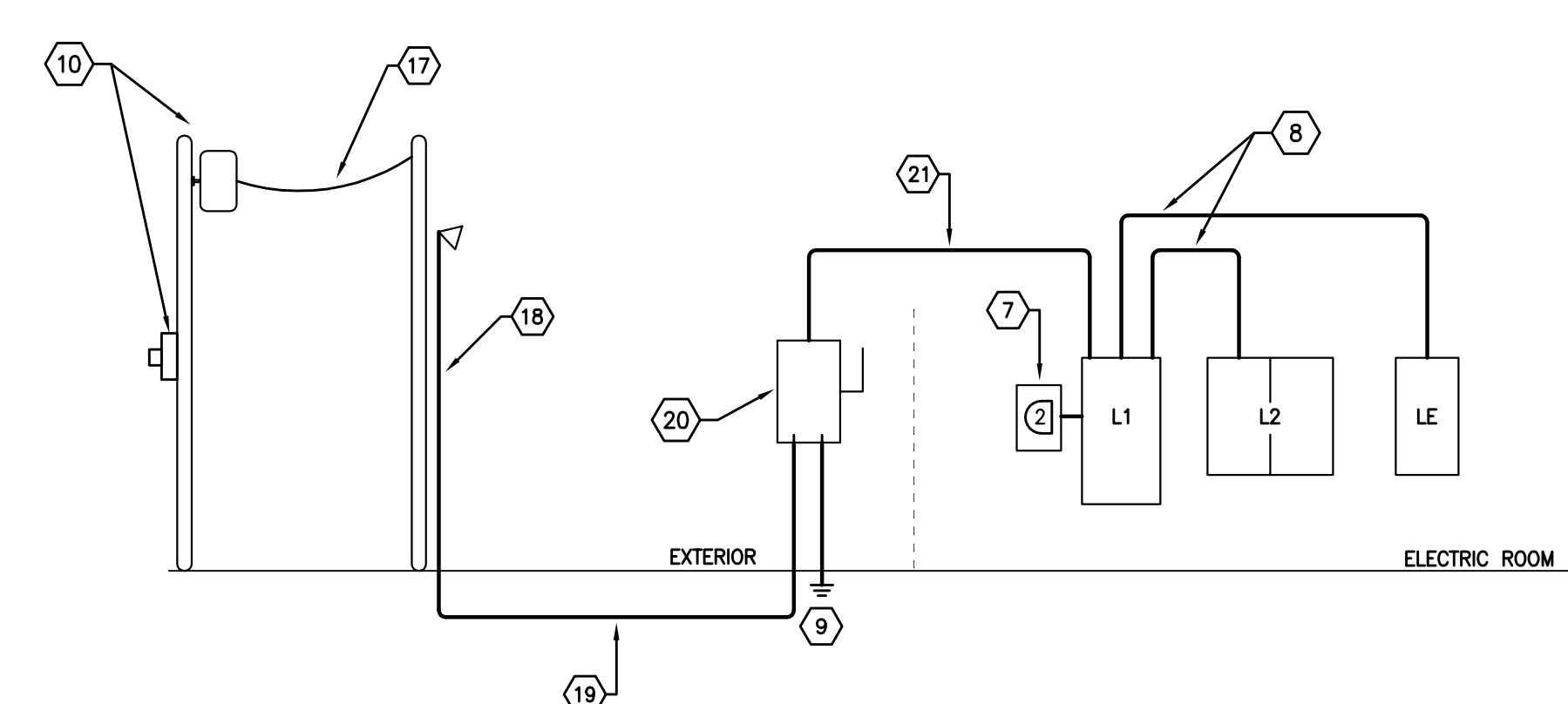
- 1 PRIMARY CONDUITS PROVIDED AND INSTALLED BY UTILITY COMPANY.
- 2 TRANSFORMER PROVIDED AND INSTALLED BY UTILITY COMPANY. COORDINATE PAD REQUIREMENTS WITH UTILITY COMPANY.
- 3 METER AT TRANSFORMER BY UTILITY COMPANY.
- 4 STUB THE MAXIMUM NUMBER OF SECONDARY CONDUITS ALLOWED BY UTILITY COMPANY TO A POINT 5' OUTSIDE PAD. INDICATE EXACT LOCATION FROM A FIXED POINT ON RECORD DRAWINGS.
- 5 NEW BUILDING SERVICE DISCONNECT. FIELD COORDINATE EXACT LOCATION.
- 6 ROUTE (2) TWO SETS OF 4#350 KCM AND 1#1 GROUND, EACH SET IN A 3" CONDUIT.
- 7 REFERENCE SURGE SUPPRESSION SCHEDULE FOR MORE INFORMATION.
- 8 REFERENCE ASSOCIATED PANELBOARD SCHEDULE FOR CONDUIT/WIRING SIZES AND QUANTITIES.
- 9 GROUND SERVICE PER NEC 250 AND ALL LOCAL ORDINANCES. AT A MINIMUM, PROVIDE A UFER GROUND, CONNECTION TO WATER PIPE AND GROUND ROD.
- 10 EXISTING POLE, TRANSFORMERS AND METER TO REMAIN. 120/240V, 3PH., 4 WIRE DELTA SERVICE.
- 11 EXISTING POLE AND OVERHEAD DROP FOR EXISTING ELEMENTARY SERVICE BEING REWORKED. REFERENCE PHOTO 01.
- 12 PROVIDE A NEW BUILDING SERVICE DISCONNECT. REFERENCE DISCONNECT SCHEDULE FOR MORE INFORMATION.
- 13 PROVIDE NEW RISERS FROM DISCONNECT FOR RECONNECTION OF OVERHEAD DROP. COORDINATE WITH UTILITY COMPANY FOR ALL REQUIREMENTS.
- 14 CONTRACTOR SHALL REMOVE EXISTING WEATHERHEAD AND CONDUIT/WIRING BACK TO EXISTING PANEL 'DPE'. SEAL PENETRATION THROUGH WALL TO A WATER-TIGHT CONDITION. REFERENCE PHOTO 02.
- 15 ROUTE (2) TWO SETS OF 4#350 KCM, EACH SET IN A 3" CONDUIT.
- 16 EXISTING PANEL IN ELECTRIC ROOM.
- 17 EXISTING POLE AND OVERHEAD DROP SERVING REMODELED PORTION OF ELEMENTARY SCHOOL.
- 18 ROUTE RISER UP POLE PER UTILITY COMPANY REQUIREMENTS.
- 19 ROUTE 4#600 KCM IN A 4" CONDUIT.
- 20 NEW BUILDING SERVICE DISCONNECT. REFERENCE DISCONNECT SCHEDULE FOR MORE INFORMATION. FIELD COORDINATE EXACT LOCATION.
- 21 ROUTE 4#600 KCM AND 1#3 GROUND IN A 4" CONDUIT. ROUTE UP EXTERIOR WALL AND PENETRATE ABOVE CEILING. FIELD COORDINATE EXACT ROUTING THROUGH INTERIOR OF BUILDING.



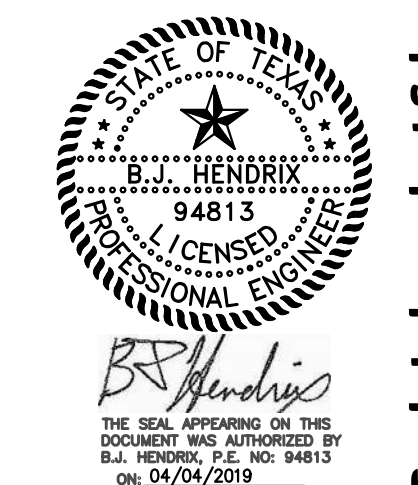
01 ELECTRICAL RISER DIAGRAM - CAREER CENTER
SCALE: NONE



02 ELECTRICAL RISER DIAGRAM - ELEMENTARY EXISTING
SCALE: NONE



03 ELECTRICAL RISER DIAGRAM - ELEMENTARY RENO. AREA
SCALE: NONE



REFERENCE GENERAL NOTES ON SHEETS M1.01, PT.01, AND E1.01 FOR ADDITIONAL INFORMATION

HCE HENDRIX CONSULTING ENGINEERS

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F - 4095

HCE job no.: 19-004

Brady Independent School District
Bond 2018
Brady, Texas

Revision:

Project Number
1703

Date:
04/04/2019

Sheet Number

CIRCUIT BREAKER PANELBOARD 'L1' BRADY ISD - ELEMENTARY

STANDARD NOTES:
1. PROVIDE BALANCED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY.
2. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE.

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE. (d) PROVIDE WITH SHUNT TRIP BREAKER.
(b) REFERENCE TRANSFORMER SCHEDULE. (e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE. (f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE. (h) PROVIDE 6" PANEL EXTENSION AND CTS AS NOTED.

120/240 VOLT, 3 PHASE, 4 WIRE, 400 A. MCB, KA, RMS SYM.
SURFACE MOUNTED, NEMA 1 ENCLOSURE, S/N
FEEDER: REFERENCE PANELBOARD CONNECTION SCHEDULE

CKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	C/B	C/B	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CKT
1	HRU-OSA-E1	20	10.5	45/3	10.5	20	HRU-OSA-E2	E	2
3	"	"	"	"	"	"	"	"	4
5	"	"	"	"	"	"	"	"	6
7	S SPARE	"	"	"	"	"	SPARE	S	8
9	"	"	"	"	"	"	"	"	10
11	"	"	"	"	"	"	"	"	12
13	S SPACE	"	"	"	"	"	PANEL LP	E	14
15	E PANEL LE	(g)	47.3	225/2	"	(g)	"	E	16
17	"	"	"	"	"	"	SPACE	S	18
19	S SPACE	"	"	"	"	"	SPD	E	20
21	S SPACE	"	"	"	"	"	"	S	22
23	S SPACE	"	"	"	"	"	"	S	24

CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	REMARKS:
LIGHTING = 0.0 KVA	X 1.25	LIGHTING = 0.0 KVA	EXISTING INCOMING SERVICE TO BUILDING
RECEPTACLE = 0.0 KVA	NEC 220 - 14	RECEPTACLE = 0.0 KVA	IS 120/240 VOLT, 3 PHASE, 4 WIRE
EQUIPMENT = 101.5 KVA	X 1.0	EQUIPMENT = 101.5 KVA	DELTA, PROVIDE PLACARD INDICATING
KITCHEN = 0.0 KVA	NEC 220 - 56	KITCHEN = 0.0 KVA	VOLTAGE AND LOCATION OF HIGH LEG.
SPARES = 0.0 KVA	X 0.5	SPARES = 0.0 KVA	
TOTAL = 101.5 KVA		TOTAL = 101.5 KVA	282 AMPS

CIRCUIT BREAKER PANELBOARD 'L2' BRADY ISD - ELEMENTARY

STANDARD NOTES:
1. PROVIDE BALANCED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY.
2. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE.

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE. (d) PROVIDE WITH SHUNT TRIP BREAKER.
(b) REFERENCE TRANSFORMER SCHEDULE. (e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE. (f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE. (h) PROVIDE 6" PANEL EXTENSION AND CTS AS NOTED.

120/240 VOLT, 1 PHASE, 3 WIRE, 200 A. MLO, KA, RMS SYM.
SURFACE MOUNTED, NEMA 1 ENCLOSURE, S/N
FEEDER: REFERENCE PANELBOARD CONNECTION SCHEDULE

CKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	C/B	C/B	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CKT
1	L LIGHTING	2	1.4	20/1	1.2	2	LIGHTING	L	2
3	L LIGHTING	2	1.0	20/1	1.2	2	LIGHTING	L	4
5	L LIGHTING	2	1.2	20/1	0.9	2	RECEPTACLES	R	6
7	R RECEPTACLES	2	0.9	20/1	0.7	2	RECEPTACLES	R	8
9	R RECEPTACLES	2	0.5	20/1	0.7	2	RECEPTACLES	R	10
11	R RECEPTACLES	2	0.5	20/1	0.9	2	RECEPTACLES	R	12
13	E REFRIGERATOR	2	1.0	20/1	0.9	2	RECEPTACLES	R	14
15	R RECEPTACLES	2	0.9	20/1	0.7	2	RECEPTACLES	R	16
17	E EWC	2	1.0	20/1	1.1	2	RECEPTACLES	R	18
19	R RECEPTACLES	2	0.9	20/1	0.9	2	RECEPTACLES	R	20
21	R RECEPTACLES	2	0.7	20/1	0.9	2	RECEPTACLES	R	22
23	R RECEPTACLES	2	0.7	20/1	1.1	2	RECEPTACLES	R	24
25	R RECEPTACLES	2	0.9	20/1	0.7	2	RECEPTACLES	R	26
27	R RECEPTACLES	2	0.9	20/1	0.9	2	RECEPTACLES	R	28
29	R RECEPTACLES	2	0.7	20/1	0.9	2	RECEPTACLES	R	30
31	R RECEPTACLES	2	0.7	20/1	1.1	2	WHP-E1	E	32
33	R RECEPTACLES	2	0.9	20/1	--	--	"	"	34
35	R RECEPTACLES	2	1.1	20/1	0.3	2	HWRP-E1	E	36
37	E EF-1	2	1.1	20/1	1.1	2	RECEPTACLES	R	38
39	E EF-2	2	0.7	20/1	1.0	2	ACCESS CONTROL PANEL	E	40
41	S SPARE	--	--	20/1	--	--	SPARE	S	42
43	S SPARE	--	--	20/1	--	--	SPARE	S	44
45	S SPARE	--	--	20/1	--	--	SPARE	S	46
47	S SPARE	--	--	20/1	--	--	SPARE	S	48
49	S SPARE	--	--	20/1	--	--	SPARE	S	50
51	S SPARE	--	--	20/1	--	--	SPARE	S	52
53	S SPARE	--	--	20/1	--	--	SPARE	S	54
55	S SPARE	--	--	20/1	--	--	SPARE	S	56
57	S SPARE	--	--	20/1	--	--	SPARE	S	58
59	S SPARE	--	--	20/1	--	--	SPARE	S	60
61	S SPACE	--	--	--	--	--	SPACE	S	62
63	S SPACE	--	--	--	--	--	SPACE	S	64
65	S SPACE	--	--	--	--	--	SPACE	S	66
67	S SPACE	--	--	--	--	--	SPACE	S	68
69	S SPACE	--	--	--	--	--	SPACE	S	70
71	S SPACE	--	--	--	--	--	SPACE	S	72
73	S SPACE	--	--	--	--	--	SPACE	S	74
75	S SPACE	--	--	--	--	--	SPACE	S	76
77	S SPACE	--	--	--	--	--	SPACE	S	78
79	S SPACE	--	--	--	--	--	SPACE	S	80
81	S SPACE	--	--	--	--	--	SPACE	S	82
83	S SPACE	--	--	--	--	--	SPACE	S	84

CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	REMARKS:
LIGHTING = 0.0 KVA	X 1.25	LIGHTING = 0.0 KVA	
RECEPTACLE = 21.9 KVA	NEC 220 - 14	RECEPTACLE = 16.0 KVA	
EQUIPMENT = 10.7 KVA	X 1.0	EQUIPMENT = 10.7 KVA	
KITCHEN = 0.0 KVA	NEC 220 - 56	KITCHEN = 0.0 KVA	
SPARES = 0.0 KVA	X 0.5	SPARES = 0.0 KVA	
TOTAL = 38.8 KVA		TOTAL = 34.2 KVA	142 AMPS

CIRCUIT BREAKER PANELBOARD 'LE' BRADY ISD - ELEMENTARY

STANDARD NOTES:
1. PROVIDE BALANCED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY.
2. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE.

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE. (d) PROVIDE WITH SHUNT TRIP BREAKER.
(b) REFERENCE TRANSFORMER SCHEDULE. (e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE. (f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.

120/240 VOLT, 1 PHASE, 3 WIRE, 225A. MLO, KA, RMS SYM.
SURFACE MOUNTED, NEMA 1 ENCLOSURE, S/N
FEEDER: REFERENCE PANELBOARD CONNECTION SCHEDULE

CKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	C/B	C/B	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CKT
1	CC-E1 E2 E3 E4 E5 E6 E7	3	0.8	20/2	0.8	3	CC-E8 E9 E10 E11 E12 E13	E	2
3	"	"	"	"	"	"	"	"	4
5	HP-E1	3	2.7	20/2	2.7	3	HP-E2	E	6
7	"	"	"	"	"	"	"	"	8
9	HP-E3	3	2.7	20/2	2.7	3	HP-E4	E	10
11	"	"	"	"	"	"	"	"	12
13	HP-E5	3	1.5	20/2	1.5	3	HP-E6	E	14
15	"	"	"	"	"	"	"	"	16
17	HP-E7	3	1.5	20/2	1.5	3	HP-E8	E	18
19	"	"	"	"	"	"	"	"	20
21	HP-E9	3	2.7	20/2	2.7	3	HP-E10	E	22
23	"	"	"	"	"	"	"	"	24
25	HP-E11	3	2.7	20/2	2.7	3	HP-E12	E	26
27	"	"	"	"	"	"	"	"	28
29	HP-E13	3	2.7	20/2	4.5/2	7.7	FCU-OSA-E1	E	30
31	"	"	"	"	"	"	"	"	32
33	S SPARE	--	--	20/2	4.5/2	7.7	FCU-OSA-E2	E	34
35	"	"	"	"	"	"	"	"	36
37	S SPACE	--	--	--	--	--	SPACE	S	38
39	S SPACE	--	--	--	--	--	SPACE	S	40
41	S SPACE	--	--	--	--	--	SPACE	S	42

CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	REMARKS:
LIGHTING = 0.0 KVA	X 1.25	LIGHTING = 0.0 KVA	
RECEPTACLE = 0.0 KVA	NEC 220 - 14	RECEPTACLE = 0.0 KVA	
EQUIPMENT = 47.3 KVA	X 1.0	EQUIPMENT = 47.3 KVA	
KITCHEN = 0.0 KVA	NEC 220 - 56	KITCHEN = 0.0 KVA	
SPARES = 0.0 KVA	X 0.5	SPARES = 0.0 KVA	
TOTAL = 47.3 KVA		TOTAL = 47.3 KVA	197 AMPS

CIRCUIT BREAKER PANELBOARD 'LDP' BRADY ISD - HIGH SCHOOL

STANDARD NOTES:
1. PROVIDE BALANCED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY.
2. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE.

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE. (d) PROVIDE WITH SHUNT TRIP BREAKER.
(b) REFERENCE TRANSFORMER SCHEDULE. (e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE. (f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE. (h) PROVIDE 6" PANEL EXTENSION AND CTS AS NOTED.

120/208 VOLT, 3 PHASE, 4 WIRE, 600 A. MCB, KA, RMS SYM.
SURFACE MOUNTED, NEMA 1 ENCLOSURE, S/N
FEEDER: REFERENCE PANELBOARD CONNECTION SCHEDULE

CKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	C/B	C/B	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CKT	
1	E PANEL LA	(g)	100.7	400/3	225/3	39.0	(g)	PANEL LK	E	2
3	"	"	"	"	"	"	"	"	"	4
5	"	"	"	"	"	"	"	"	"	6
7	E PANEL LP	(g)	64.0	225/3	"	"	"	"	E	8
9	"	"	"	"	"	"	"	"	"	10
11	"	"	"	"	"	"	"	"	"	12
13	"	"	"	"	"	"	"	"	"	14
15	"	"	"	"	"	"	"	"	"	16
17	"	"	"	"	"	"	"	"	"	18
19	"	"	"	"	"	"	"	"	"	20
21	"	"	"	"	"	"	"	"	"	22
23	"	"	"	"	"	"	"	"	"	24

CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	REMARKS:
LIGHTING = 0.0 KVA	X 1.25	LIGHTING = 0.0 KVA	
RECEPTACLE = 0.0 KVA	NEC 220 - 14	RECEPTACLE = 0.0 KVA	
EQUIPMENT = 203.7 KVA	X 1.0	EQUIPMENT = 203.7 KVA	
KITCHEN = 0.0 KVA	NEC 220 - 56	KITCHEN = 0.0 KVA	
SPARES = 0.0 KVA	X 0.5	SPARES = 0.0 KVA	
TOTAL = 203.7 KVA		TOTAL = 203.7 KVA	556 AMPS

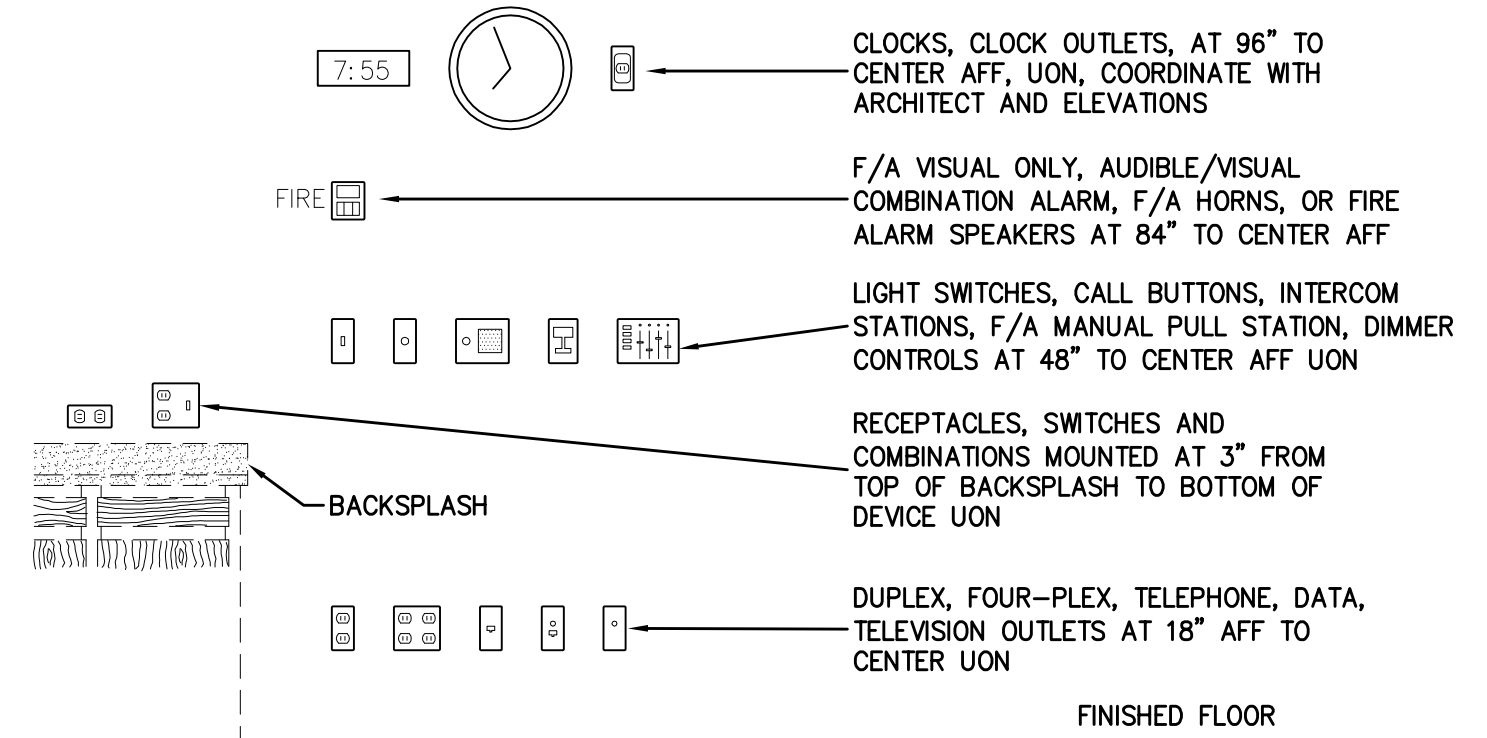
CIRCUIT BREAKER PANELBOARD 'LA' BRADY ISD - HIGH SCHOOL

STANDARD NOTES:
1. PROVIDE BALANCED LOAD ON EACH PHASE. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY.
2. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE.

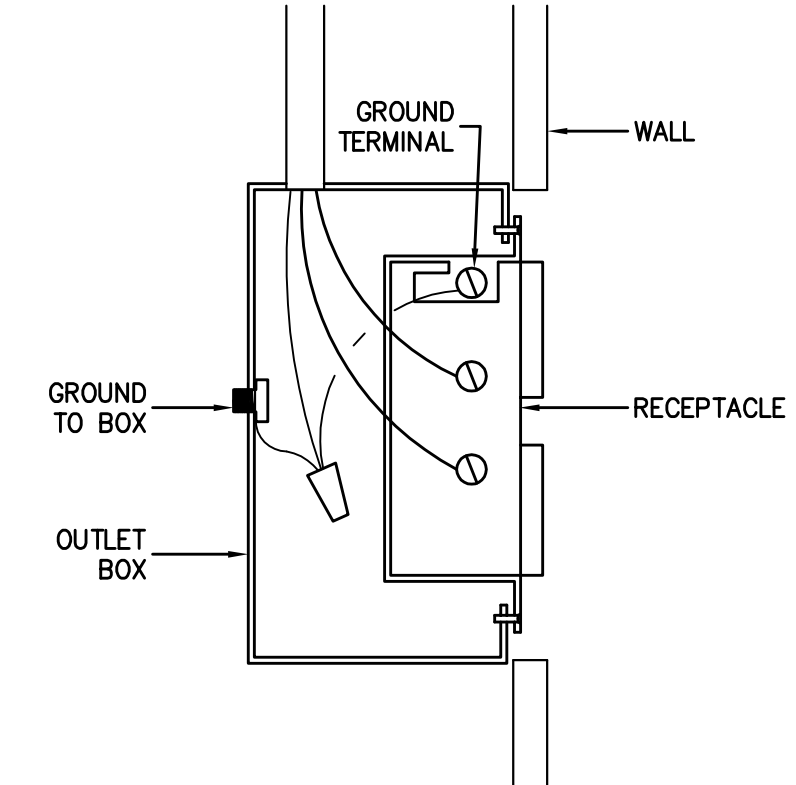
NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE. (d) PROVIDE WITH SHUNT TRIP BREAKER.
(b) REFERENCE TRANSFORMER SCHEDULE. (e) PROVIDE WITH PERMANENTLY INSTALLED LOCKING DEVICE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE. (f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE. (h) PROVIDE 6" PANEL EXTENSION AND CTS AS NOTED.

120/208 VOLT, 3 PHASE, 4 WIRE, 400 A. MCB, KA, RMS SYM.
SURFACE MOUNTED, NEMA 1 ENCLOSURE, S/N
FEEDER: REFERENCE PANELBOARD CONNECTION SCHEDULE

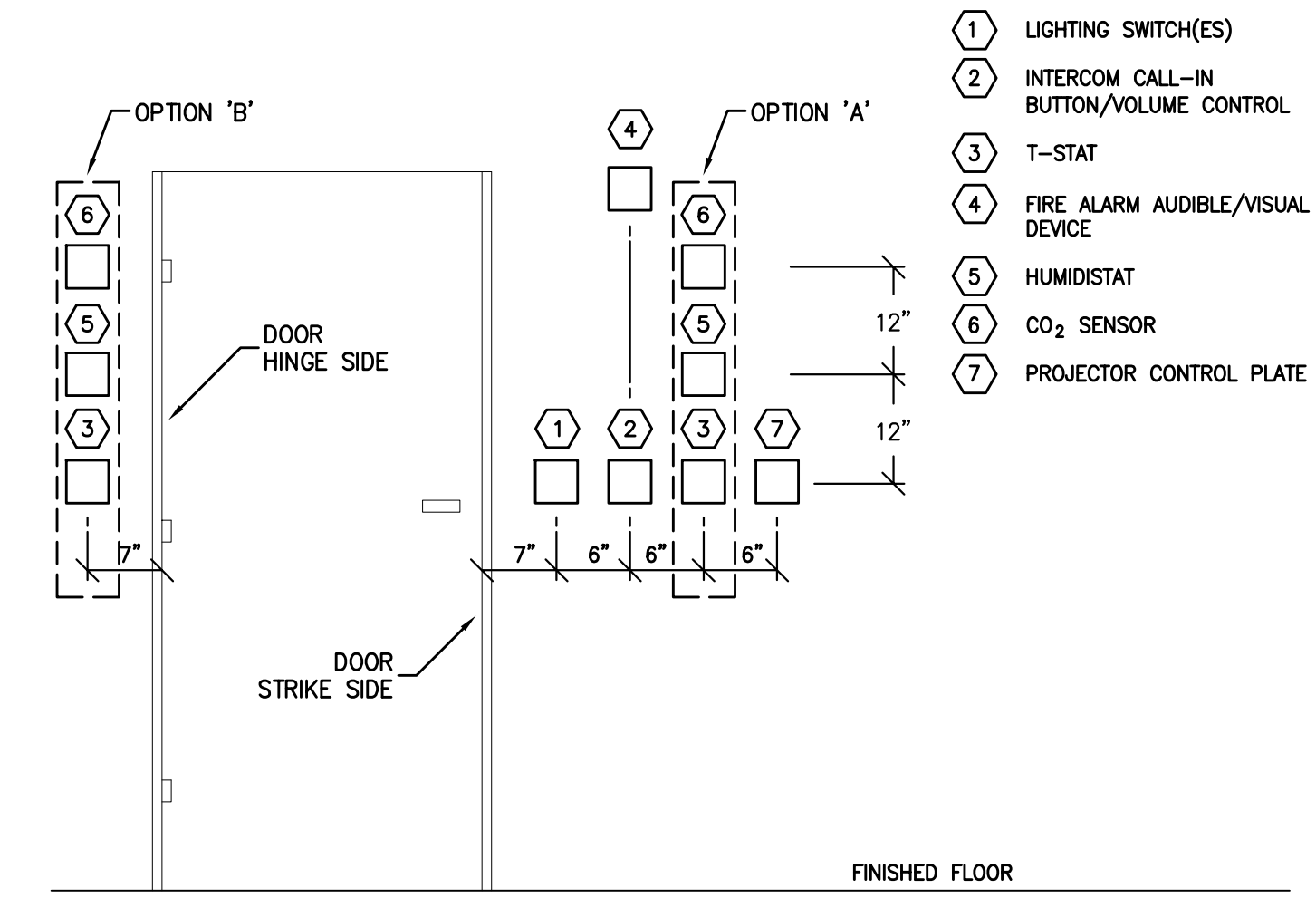
CKT	LOAD DESCRIPTION	WIRE/CONDUIT	KVA	C/B	C/B	KVA	WIRE/CONDUIT	LOAD DESCRIPTION	CKT	
1	R RECEPTACLES	2	1.1	20/1	1.1	2	RECEPTACLES	R	2	
3	R DF RECEPTACLES	2	1.0	20/1	0.9	2	RECEPTACLES	R	4	
5	R DF RECEPTACLES	2	1.0	20/1	0.9	2	RECEPTACLES	R	6	
7	R DRYER	12	5.0	30/2	20/1	1.0	2	RECEPTACLES	R	8
9	"	"	"	"	"	"	"	"	"	10
11	E WASHER	2	1.0	20/1	1.0	2	RECEPTACLES	R	12	
13	E HWRP-H1	2	0.3	20/1	1.0	2	RECEPTACLES	R	14	
15	E WH-H1	17	6.0	40/2	20/1	1.0	2	RECEPTACLES	R	16
17	"	"	"	"	"	"	"	"	"	18
19	E EWC	2	1.0	20/1	1.0	2	RECEPTACLES	R	20	
21	E WASHER/DRYER	3	5.0	30/2	20/1	1.0	2	RECEPTACLES	R	22
23	"	"	"	"	"	"	"	"	"	24
25	R RECEPTACLES	2	0.5	20/1	1.0	2	RECEPTACLES	R	26	
27	R RECEPTACLES	2	0.5	20/1	1.0	2	RECEPTACLES	R	28	
29	R RECEPTACLES	2	1.0	20/1	1.0	2	LIGHTING	L	30	
31	L LIGHTING	2	1.4	20/1	1.5	2	LIGHTING	L	32	
33	E HP-H3	2	4.8	35/2	15/2	1.1	AHU-H3	E	34	
35	"	"	"	"	"	"	"	"	"	36
37	E HP-H2	2	2.7	25/2	15/2	0.8	AHU-H2	E	38	
39	"	"	"	"	"	"	"	"	"	40
41	E HP-H4	2	2.7	25/2	15/2	0.8	AHU-H4	E	42	
43	"	"	"	"	"	"	"	"	"	44
45	E HP-H1	2	4.8	35/2	15/2	1.1	AHU-H1	E	46	
47	"	"	"	"	"	"	"	"	"	48
49	E HP-H5	2	2.7	25/2	15/2	0.8	AHU-H5	E	50	
51	"	"	"	"	"	"	"	"	"	52
53	E HRU-OSA-H1	--	--	10.5	45/3	60/2	7.7	FCU-OSA-H1	E	54
55	"	"	"	"	"	"	"	"	"	56
57	"	"	"	"	"	"	"	"	"	58
59	E EF-1	3	1.1	20/2	20/1	1.1	2	HAKU CEILING FANS	E	60
61	"	"	"	"	"	"	"	"	"	62
63	E EF-2	3	1.1	20/2	--	--	12	MAU-1 (CONDENSOR)	E	64
65										



MOUNTING HEIGHT DETAIL
 NO SCALE EDE-10



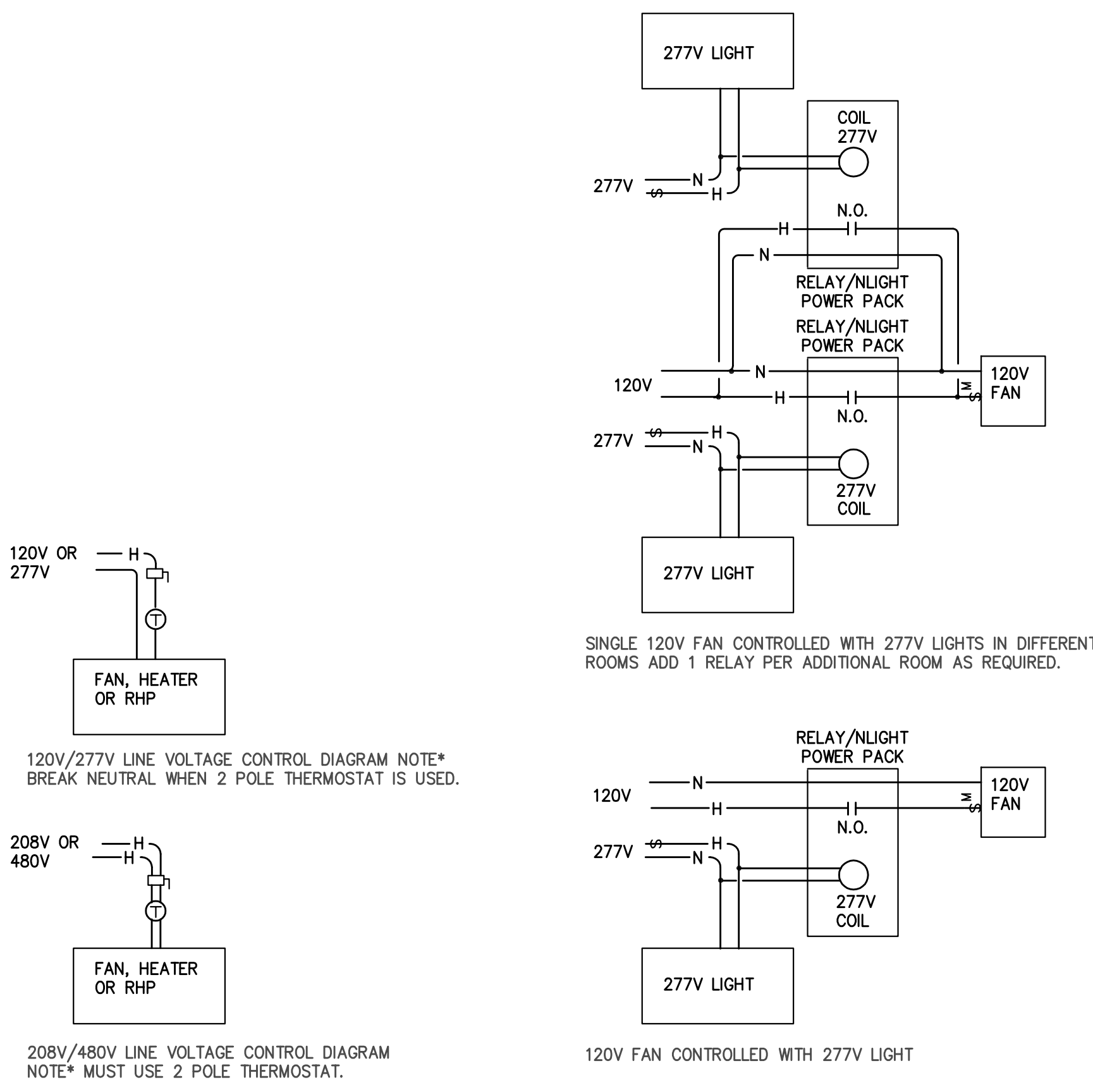
RECEPTACLE GROUNDING DETAIL
 NO SCALE EDE-57



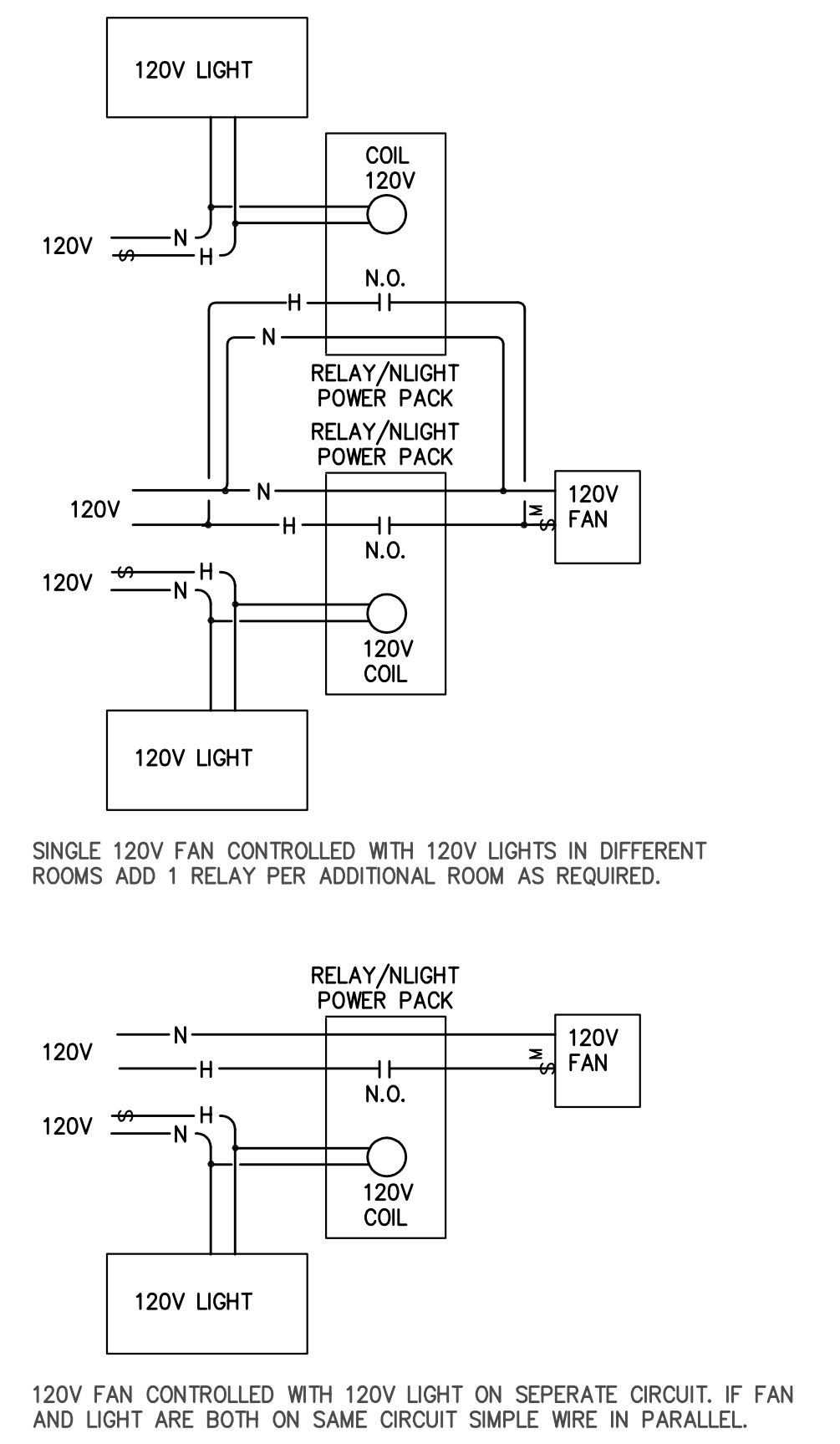
NOTES:

1. THE PURPOSE OF THIS DETAIL IS TO SET A STANDARD FOR DEVICE ROUGH-IN. ADJUSTMENT FOR FIELD CONDITIONS WILL BE ALLOWED.
2. PROVIDE HORIZONTAL MULTI-DEVICE BRACKET AS REQUIRED.
3. MARKER BOARD IN CLASSROOMS SHOULD BE 30" FROM DOOR TO ALLOW ALL DEVICES TO BE ROUGH-IN PER DETAIL.
4. MECHANICAL CONTROL DEVICES MAY BE ON EITHER SIDE OF DOOR, DEPENDING ON JOB CONDITIONS. REFERENCE OPTION 'A' AND OPTION 'B'. T-STAT MAY NOT BE BEHIND DOOR WHEN OPEN.

TYPICAL DEVICE OUTLET LOCATIONS ADJACENT TO DOORS
 NO SCALE EDE-91



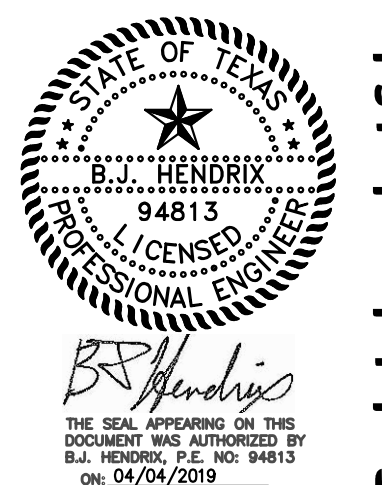
EXHAUST FAN/HEATER CONTROL
 SCALE: NONE EDE-90



- KEYED NOTES**
- 1 RATED WALL BARRIER
 - 2 PIPE OR CONDUIT
 - 3 FORMING MATERIAL (MINERAL - WOOL BATT INSULATION)
 - 4 FIRE CAULK
 - 5 FIRE CAULK - CONTINUOUS BEAD AROUND PENETRATING ITEM
 - 6 FIRE CAULK - CONTINUOUSLY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT THROUGHOUT THICKNESS OF WALL BOARD LAYERS
 - 7 SLEEVE FOR UL SYSTEM NO. WL1003, OPTIONAL FOR UL SYSTEM NO. CAJ1175
 - 8 WALL CAVITY

- GENERAL NOTES**
- REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL RATED WALLS, FLOORS AND CEILINGS.
 - REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING MATERIALS AND METHODS.
 - REFERENCE UL FIRE RESISTANCE DIRECTORY FOR ADDITIONAL DATA, INCLUDING WALL RATINGS FOR WHICH DETAILS ARE AND SUPPORT REQUIREMENTS.
 - ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH UL SYSTEM NUMBER AND MANUFACTURER'S INSTRUCTIONS PROVIDED WITH MATERIALS.
 - ONLY MATERIALS TESTED FOR SPECIFIC UL SYSTEM NUMBER MAY BE USED.
 - ANNULAR SPACE BETWEEN FIRE BARRIER SURFACE AND PENETRATING ITEM IS EXTREMELY CRITICAL. REFER TO PARTICULAR UL SYSTEM NUMBER AND FIRE RATING FOR THIS CRITERIA.

TYPICAL CONDUIT PENETRATION
 NO SCALE (FIRE RATED GYPSUM/STUD WALL ASSEMBLY AND CONCRETE WALL/FLOOR ASSEMBLY) EDE-96



STATE OF TEXAS
 B.J. HENDRIX
 94813
 LICENSED PROFESSIONAL ENGINEER
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO. 94813 ON 04/04/2019

REFERENCE GENERAL NOTES ON SHEETS M.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION

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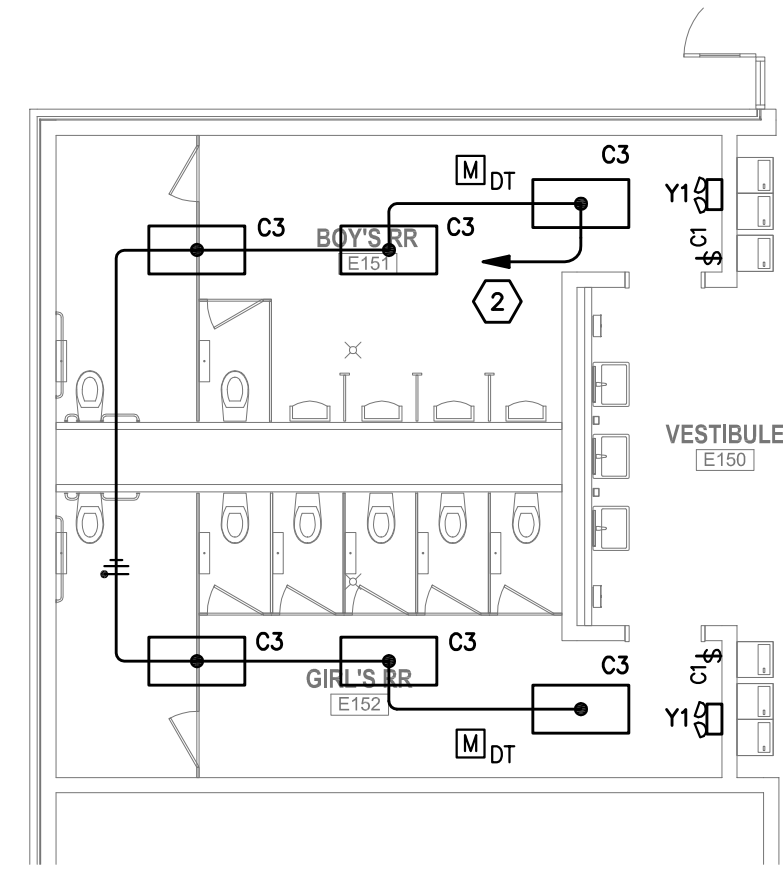
F - 4095

HCE job no.: 19-004

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Bond 2018
 Brady, Texas

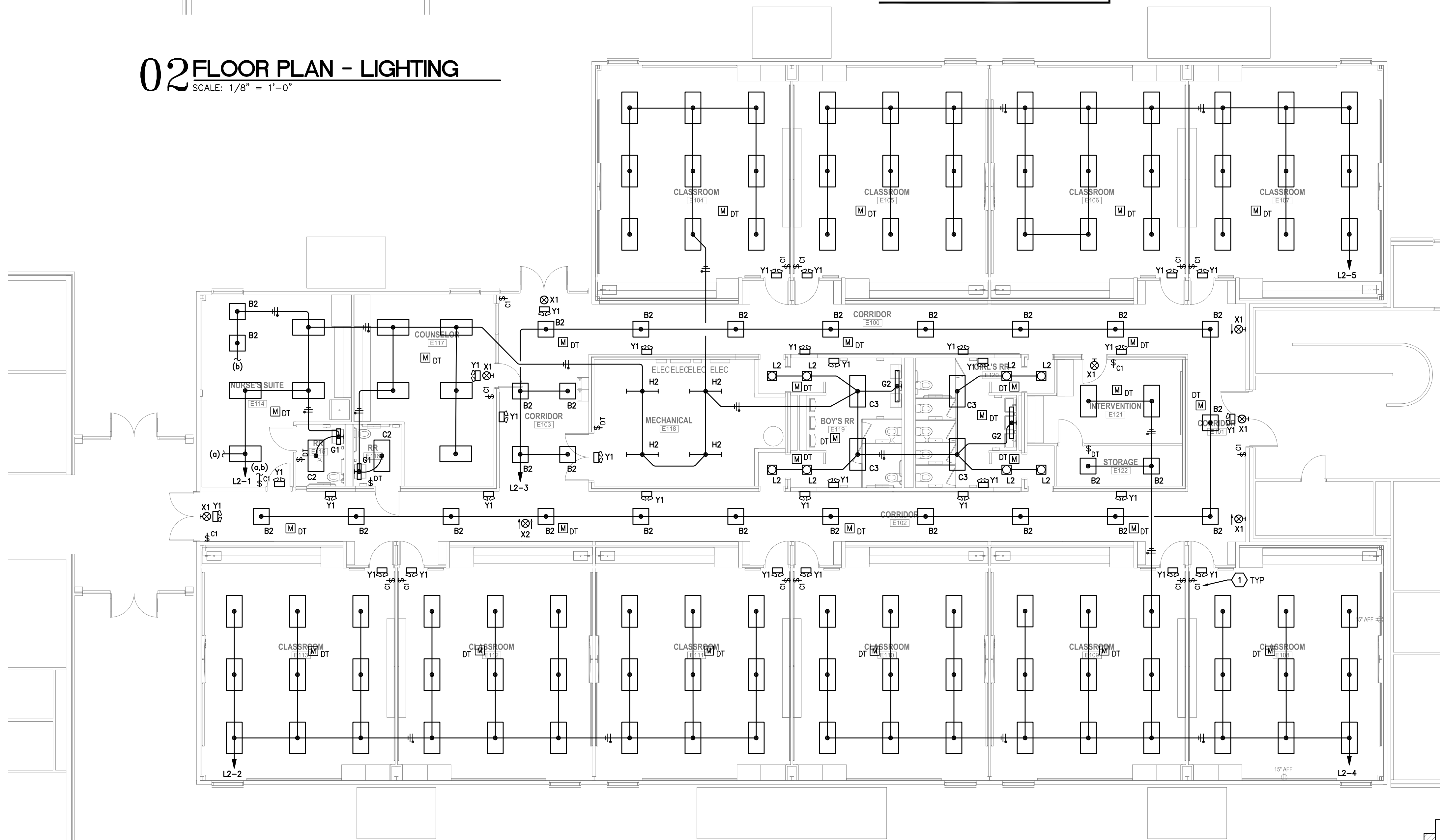
Revision:	
Project Number	1703
Date:	04/04/2019
Sheet Number	

KEYED NOTES	
THESE NOTES APPLY TO THIS SHEET ONLY	
1	LOW VOLTAGE LIGHTING CONTROL BUTTON. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE AND NIGHT INTERIOR LIGHTING SCHEDULE.
2	CONNECT TO 20A/1P BREAKER IN NEAREST 120V PANEL WITH CAPACITY.



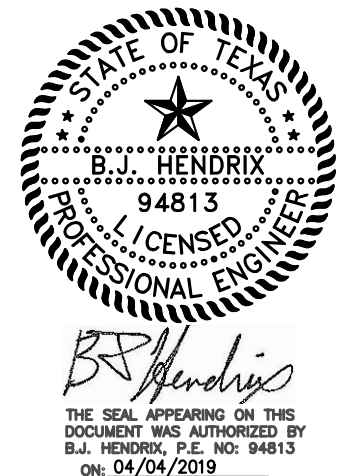
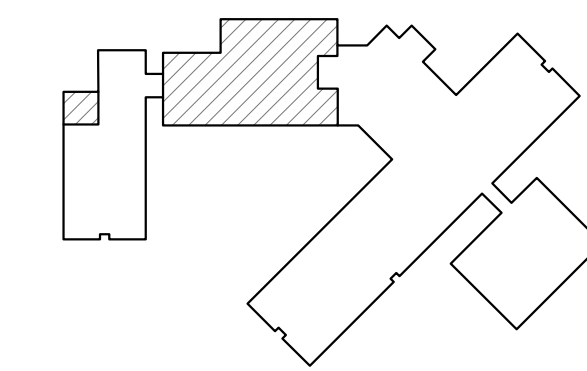
02 FLOOR PLAN - LIGHTING
 SCALE: 1/8" = 1'-0"

**NO NEW EXTERIOR LIGHTING.
 RE-CONNECT EXISTING LIGHTING.**



01 ELEMENTARY FLOOR PLAN - LIGHTING
 SCALE: 1/8" = 1'-0"

ALL LIGHT FIXTURES ARE TYPE 'A3' UNLESS OTHERWISE NOTED.



REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION



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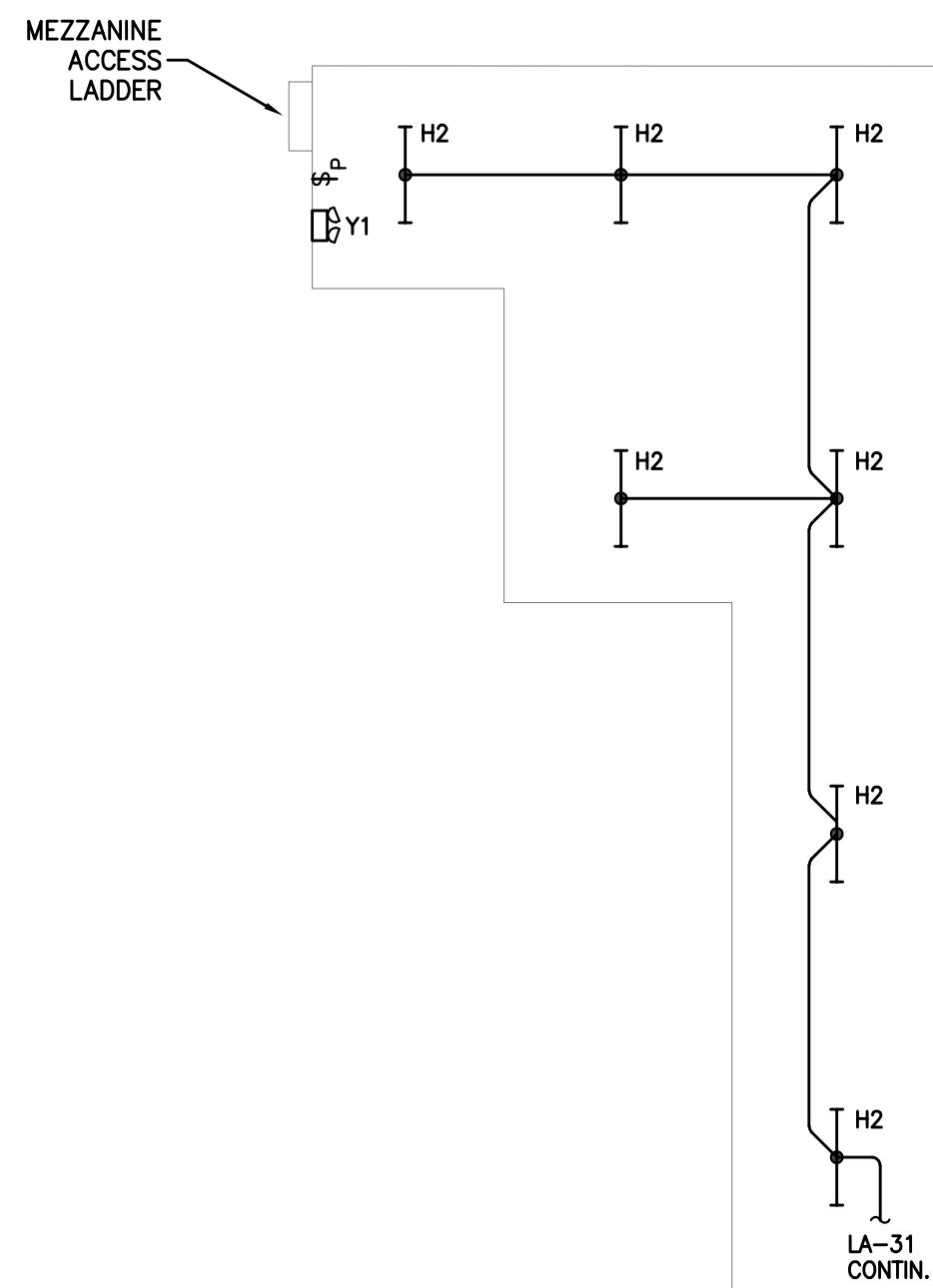
Brady Independent School District
Bond 2018
 Brady, Texas

Revision:	
Project Number	1703
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Sheet Number	

KEYED NOTES

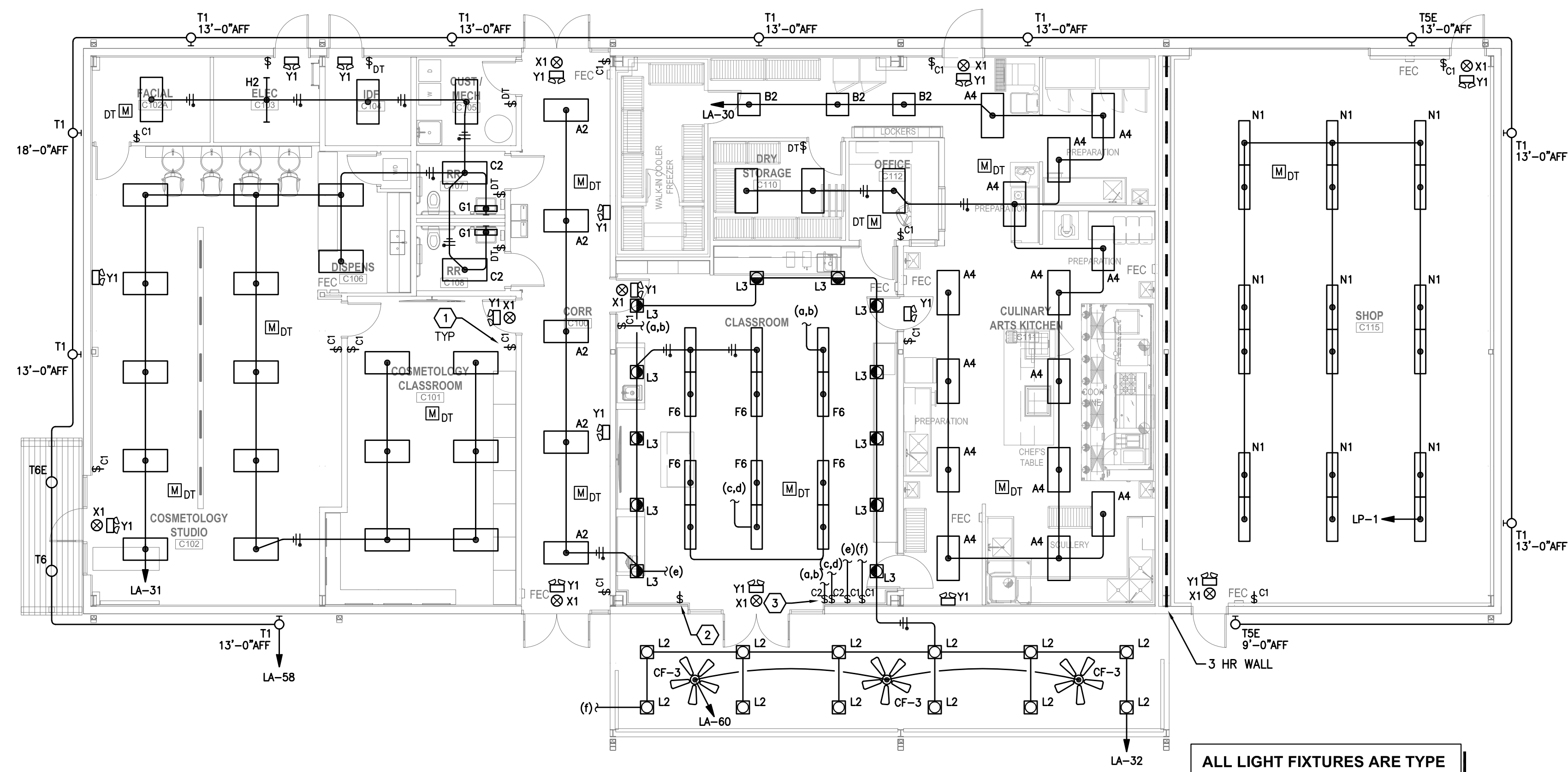
THESE NOTES APPLY TO THIS SHEET ONLY

- ① LOW VOLTAGE LIGHTING CONTROL BUTTON. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE AND NIGHT INTERIOR LIGHTING SCHEDULE.
- 2 CONTROLLER FOR FANS ON PATIO. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 3 FIELD COORDINATE EXACT LOCATION FOR SWITCHES PRIOR TO ROUGH IN.



02 MEZZANINE PLAN - LIGHTING

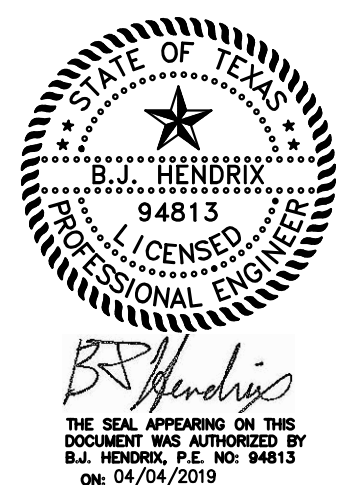
SCALE: 1/8" = 1'-0"



ALL LIGHT FIXTURES ARE TYPE 'A3' UNLESS OTHERWISE NOTED.

01 FLOOR PLAN - LIGHTING

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



REFERENCE GENERAL NOTES ON SHEETS M1.01, P1.01, AND E1.01 FOR ADDITIONAL INFORMATION



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Bond 2018
 Brady, Texas

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Sheet Number	

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

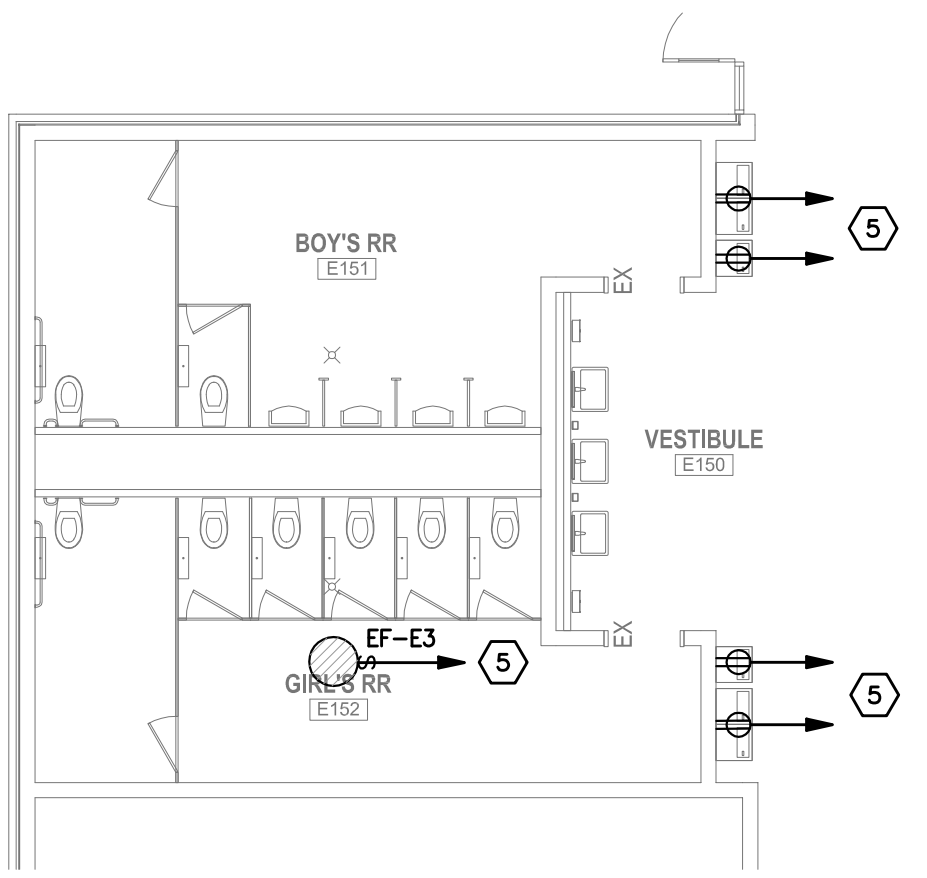
ELECTRICAL CONTRACTORS SHALL REFERENCE ALL TECHNOLOGY SHEETS FOR ADDITIONAL SCOPE OF WORK TO BE INCLUDED IN THEIR PRICING. COORDINATE ALL REQUIREMENTS WITH TECHNOLOGY DRAWINGS AND CONSULTANT PRIOR TO ROUGH-IN.

- ### KEYED NOTES
- THESE NOTES APPLY TO THIS SHEET ONLY
- COORDINATE FINAL RECEPTACLE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN. REVIEW FINAL ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED.
 - EWC POWER. RECEPTACLE FOR POWER BEHIND EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
 - ELECTRICAL PANELS. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
 - POWER AND DATA FOR FLAT PANEL DISPLAYS IN CLASSROOMS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT.
 - PROVIDE A 20A/1P GFCI BREAKER IN NEAREST 120V PANEL WITH CAPACITY.
 - PROVIDE A 2-POLE MOTOR RATED SWITCH AS DISCONNECTING MEANS FOR CASSETTES.
 - ACCESS CONTROL PANEL. REFERENCE TECHNOLOGY DRAWINGS FOR MORE INFORMATION. PROVIDE A DEDICATED 120V CIRCUIT TO PANEL.

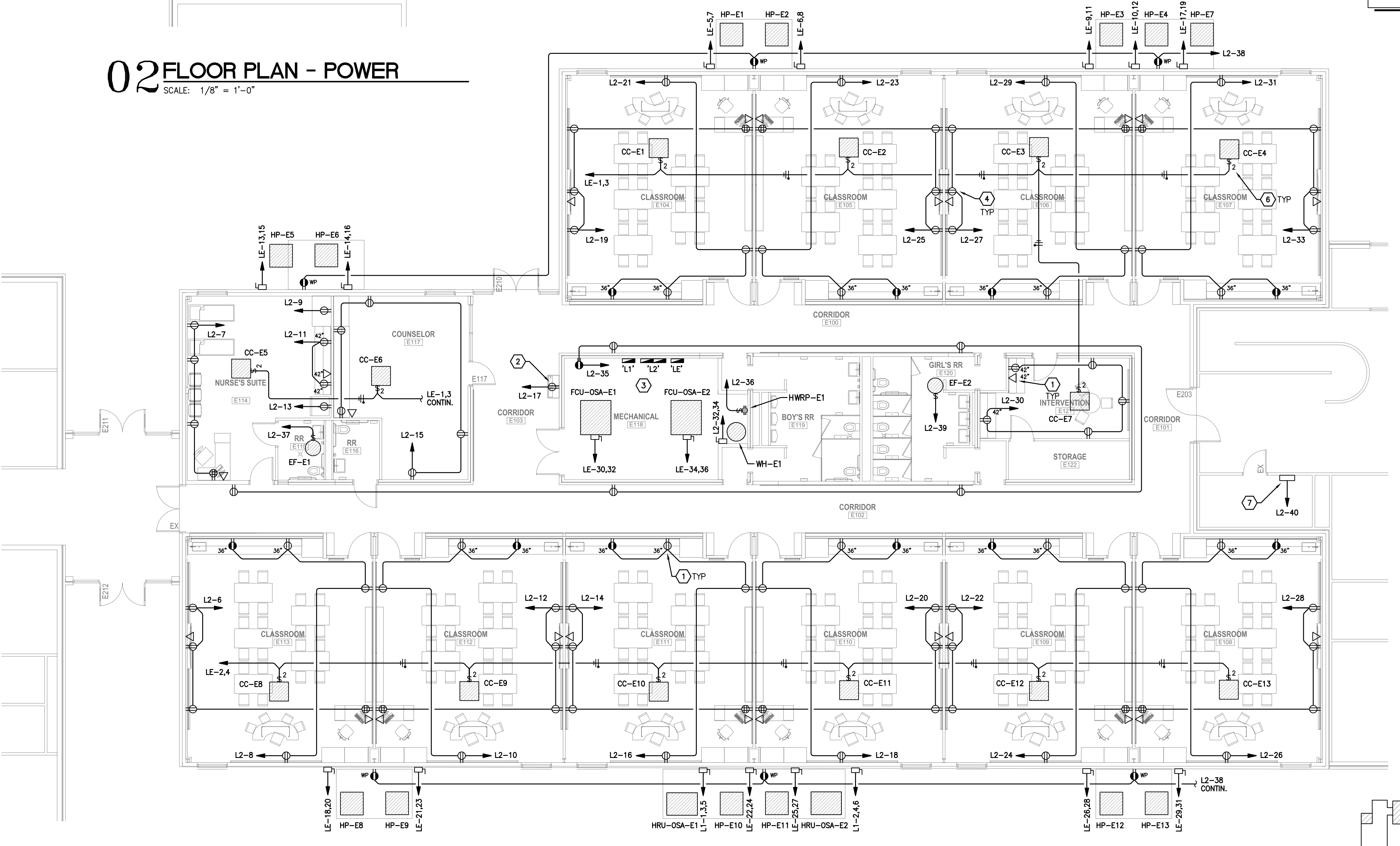
ELECTRICAL DEVICE MOCK-UP

ROUGH-IN ONE ENTIRE CLASSROOM FOR MOCK-UP APPROVAL. IN MOCK-UP, ROUGH-IN ALL DEVICES IN ROOM INCLUDING LIGHT SWITCHES, THERMOSTATS, F/A, RECEPTACLES, DATA, ETC. DO NOT ROUGH-IN ANY ADDITIONAL DEVICES UNTIL MOCK-UP IS APPROVED BY THE OWNER, ARCHITECT AND ENGINEER. ANY DEVICES THAT DON'T MEET APPROVED MOCK-UP LOCATIONS WILL BE REMOVED AND REINSTALLED IN CORRECT LOCATION AT CONTRACTOR'S EXPENSE.

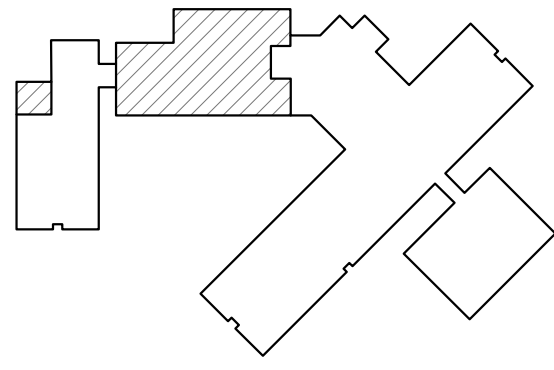
REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS



02 FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



01 ELEMENTARY FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



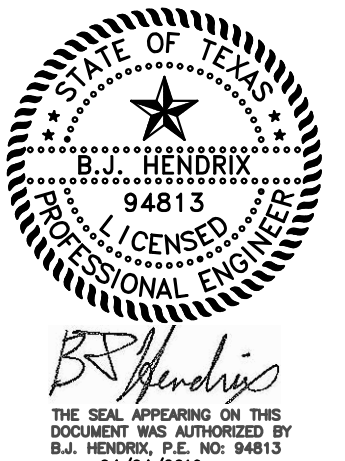
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HCE job no.: 19-004

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Brady, Texas

Revision:	
Project Number	1703
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Sheet Number	E3.01

KEYED NOTES

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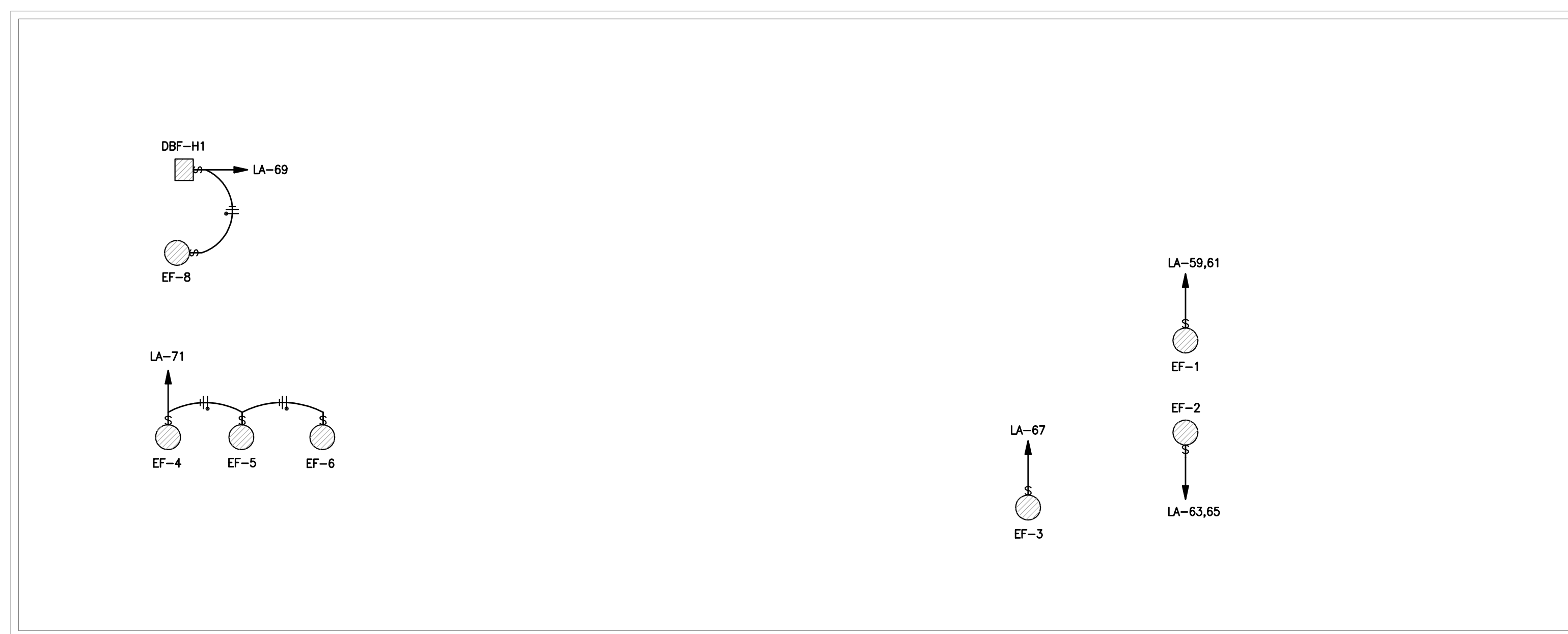
- 1 COORDINATE FINAL RECEPTACLE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN. REVIEW FINAL ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED.
- 2 EWC POWER, RECEPTACLE FOR POWER BEHIND EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
- 3 ELECTRICAL PANELS. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
- 4 POWER AND DATA FOR FLAT PANEL DISPLAYS IN CLASSROOMS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT.
- 5 ACCESS CONTROL PANEL. REFERENCE TECHNOLOGY DRAWINGS FOR MORE INFORMATION. PROVIDE A DEDICATED 120V CIRCUIT.
- 6 PROVIDE CONDUIT AND WIRING FROM NEW CAREER CENTER TO EXISTING TECHNOLOGY BUILDING FOR FIRE ALARM. CONNECT TO FIRE ALARM SYSTEM PANEL IN TECHNOLOGY BUILDING. FIELD VERIFY THAT PANEL IS EXPANDABLE TO INCORPORATE ALL POINTS REQUIRED FOR NEW BUILDING. REFERENCE SPECIFICATIONS.
- 7 CEILING MOUNTED J-BOX FOR POWER TO FUTURE CORD REELS. COORDINATE FINAL ROUGH-IN LOCATION.

ELECTRICAL DEVICE MOCK-UP

ROUGH-IN ONE ENTIRE CLASSROOM FOR MOCK-UP APPROVAL. IN MOCK-UP, ROUGH-IN ALL DEVICES IN ROOM INCLUDING LIGHT SWITCHES, THERMOSTATS, F/A, RECEPTACLES, DATA, ETC. DO NOT ROUGH-IN ANY ADDITIONAL DEVICES UNTIL MOCK-UP IS APPROVED BY THE OWNER, ARCHITECT AND ENGINEER. ANY DEVICES THAT DON'T MEET APPROVED MOCK-UP LOCATIONS WILL BE REMOVED AND REINSTALLED IN CORRECT LOCATION AT CONTRACTOR'S EXPENSE.

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS



03 ROOF PLAN - POWER

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

ELECTRICAL CONTRACTORS SHALL REFERENCE ALL TECHNOLOGY SHEETS FOR ADDITIONAL SCOPE OF WORK TO BE INCLUDED IN THEIR PRICING. COORDINATE ALL REQUIREMENTS WITH TECHNOLOGY DRAWINGS AND CONSULTANT PRIOR TO ROUGH-IN.

