LIFE SAFETY PLAN REQUIREMENTS:

- ST FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) SEE NOTE 1
- X ASSUMED AND REAL PROPERTY LINE LOCATIONS SEE NOTE 2
- X EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) SEE NOTE 3 S OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- 🔀 OCCUPANT LOADS FOR EACH AREA X EXIT ACCESS TRAVEL DISTANCES (1017)
- COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- 🔀 DEAD END LENGTHS (1020.4) SEE NOTE 4
- CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- X MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3) X ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR X A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED
- FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 5 X LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) - SEE NOTE 6
- X LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1008.1.9.7) SEE NOTE 7
- ☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) SEE NOTE 7
- X LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES SEE NOTE 7
- 🔀 LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) SEE NOTE 7 🔀 THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 8
- 🔀 THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) SEE NOTE 9
- INOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1) 1^{1} 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS

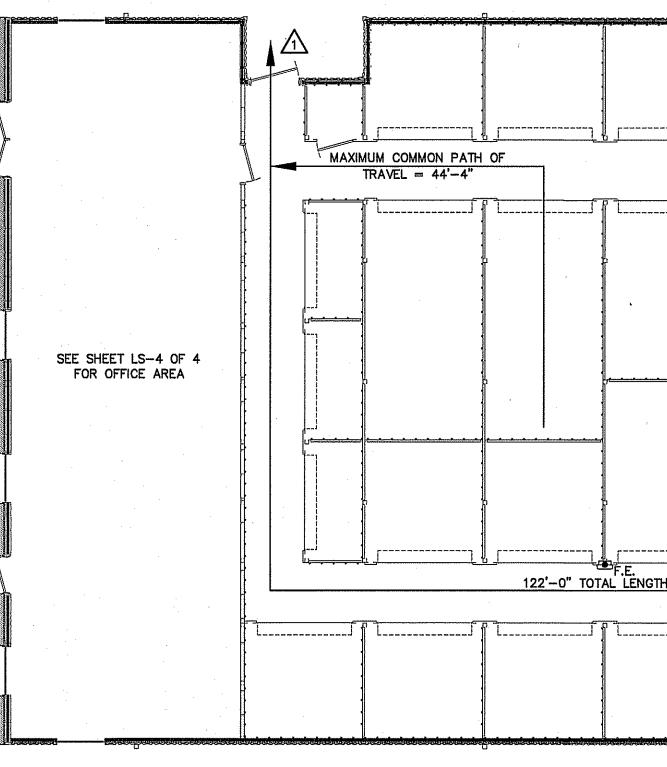
CALCULATED OCCUPANCY PER EXIT = 10 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

2 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 10 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.



- 2. ALL ASSUMED AND REAL PROPERTY 3. ASSUMED PROPERTY LINES = 35';
- 4. NO DEAD ENDS OVER 20'; 20' ALLO
- 5. NO RATING REQUIRED FOR THIS STE
- 6. PANIC HARDWARE NOT REQUIRED.
- 7. NO DELAYED EGRESS LOCKS, ELECTI OR EMERGENCY ESCAPE WINDOWS
- 8. FIRE AREAS DO NOT EXCEED CODE
- 9. BUILDING MEETS CODE REQUIREMENT NO SMOKE COMPARTMENTS

NOTE: AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE. LEGEND F.E. FIRE EXTINGUISHER CLASS ABC 10 POUNDS



	EXIT REQUIREMENTS: NUMBER AND ARRANGEMENTS OF EXITS							
Y LINES <u>></u> 30' UNLIMITED; 705.8.1 EXC. 2	FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NO. OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1016-10		
DWED RUCTURE.		REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS	
ROMAGNETIC LOCKS, HOLD OPEN DEVICES,	BUILDING 1	2	2	200'	132'-0"	85'-6"	145'-6"	
ALLOWANCE TS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS;	OFFICE	1	2	200'	48'-6"	31'-3"	36'	

1. CORRIDOR DEAD ENDS (SECTION 1020.4) 2. BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1) 3. COMMON PATH OF TRAVEL (SECTION 1029.8)

05/13/2025

132'-0" TOTAL LENGTH

LIFE SAFETY PLAN BUILDING "1" SCALE: 1/8" = 1'-0"

· · ·			EXIT	WIDTH					
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c)		EXIT WE	OTH (in)	
	AREA ¹ SQ. FT.	AREA ¹ PER OCCUPANT (TABLE	CALCULATED OCCUPANT LOAD	EGRESS PER OC (TABLE		REQUIRE (SECTION (a/t	D WIDTH N 1005.1) D) x c	ACTUAL SHOW PLA	N ON
		1004.1.2)	(a/b)	STAIR	LEVEL	STAIR	LEVEL.	STAIR	LEVEL
BUILDING 1	9,600	500 GROSS	20	N/A	.2	N/A	4.4"	N/A	94"
OFFICE	1,200	100 GROSS	12	N/A	.2	N/A	2.4"	N/A	108'
TOTAL	10,800								

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)

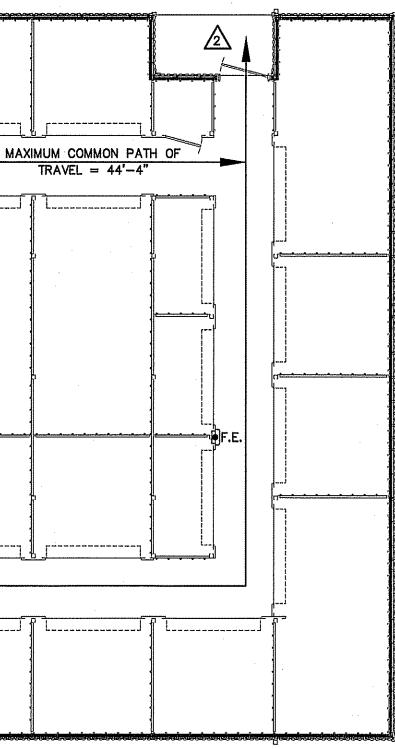
2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)

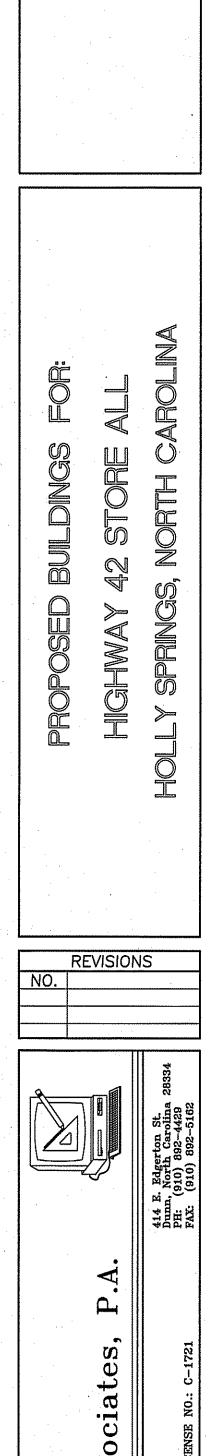
3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024) 4. SEE SECTION 1005.6 FOR CONVERGING EXITS.

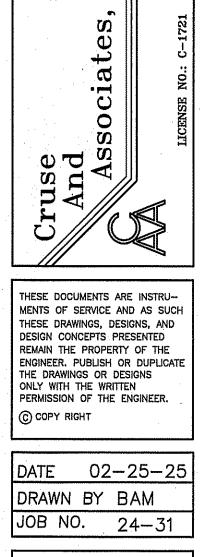
5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5) 6. ASSEMBLY OCCUPANCIES (SECTION 1029)



BUILDING 1 ONLY







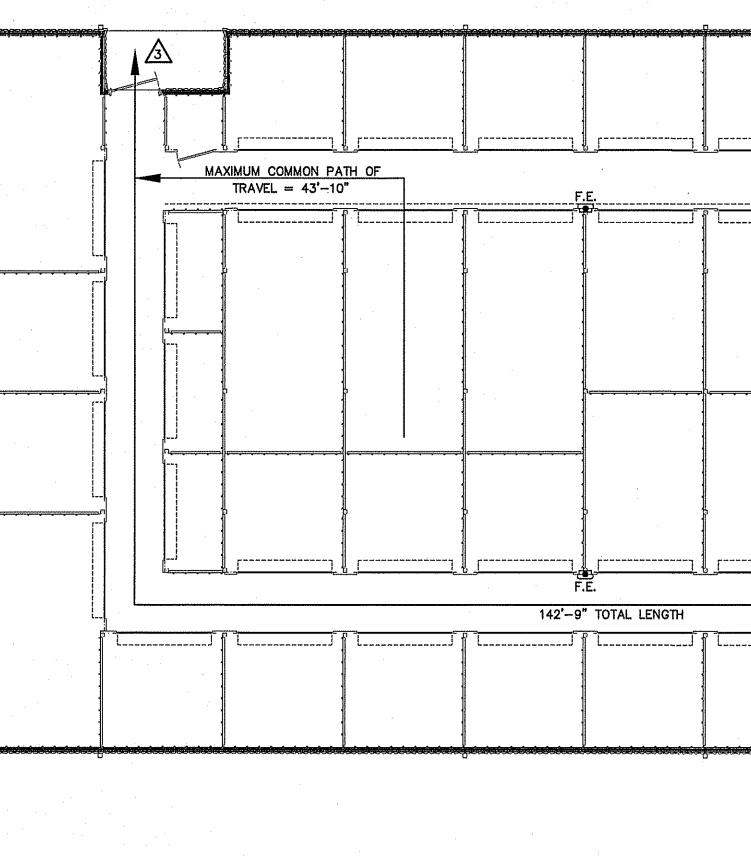
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LIFE SAFETY PLAN REQUIREMENTS:		
🖾 FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) - SEE NOTE 1	LIF	E SAFETY PLAN NOTES:
ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2	1.	SEE LEGEND FOR RATED WALLS.
X EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3	2.	ALL ASSUMED AND REAL PROPERT
CCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)	З.	ASSUMED PROPERTY LINES = $10'$;
CCUPANT LOADS FOR EACH AREA	4.	NO DEAD ENDS OVER 20'; 20' ALL
EXIT ACCESS TRAVEL DISTANCES (1017)	5.	NO RATING REQUIRED FOR THIS ST
COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))	6.	PANIC HARDWARE NOT REQUIRED.
DEAD END LENGTHS (1020.4) - SEE NOTE 4	7.	NO DELAYED EGRESS LOCKS, ELEC
CLEAR EXIT WIDTHS FOR EACH EXIT DOOR	~	OR EMERGENCY ESCAPE WINDOWS
X MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WDTH (1005.3)		FIRE AREAS DO NOT EXCEED CODE
X ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR	9.	BUILDING MEETS CODE REQUIREMEN NO SMOKE COMPARTMENTS
X A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED		NO SMORE COMPARTMENTS
FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 5		· · ·
X LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) - SEE NOTE 6		
X LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1008.1.9.7) - SEE NOTE 7		
X LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) - SEE NOTE 7		
I LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7		
LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) - SEE NOTE 7		
X THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 8		
THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) - SEE NOTE 9		
NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE		
The construction of the start start start start start start for a start and the start and the start of the st		

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)

- $\sqrt{3}$ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 12 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
- 4 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 12 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.
- 1/5 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 12 PERSON CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

 $\frac{6}{47}$ 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 12 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.



(NOTE: AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE. LEGEND

3 HOUR RATED WALL U419

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FIRE EXTINGUISHER CLASS ABC 10 POUNDS 🖗 F.E.

LEGEND

EXIT REQUIREMENTS: NUMBER AND ARRANGEMENTS OF EXITS ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1016-1021) FLOOR, ROOM OR SPACE DESIGNATION JMED AND REAL PROPERTY LINES ≥30' MINIMUM² NO. OF EXITS TRAVEL DISTANCE PROPERTY LINES = 10': UNLIMITED: 705.8.1 EXC. 2 ALLOWABLE TRAVEL DISTANCE REQ'D. SHOWN ON PLANS ACTUAL TRAVEL | REQUIRED | ACTUAL ENDS OVER 20'; 20' ALLOWED DISTANCE SHOWN ON PLANS DISTANCE BETWEEN EXIT DOORS DISTANCE SHOWN ON PLANS IG REQUIRED FOR THIS STRUCTURE. (TABLE 1017.2) YED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, BUILDING 2 (AREA 1) 175**'**—0" 1**42'--9"** 106'-0" 200' 2 2 BUILDING 2 (AREA 2) 102'--0" 102'-0" 140'-0" 2 2 200' MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; 1. CORRIDOR DEAD ENDS (SECTION 1020.4)

2. BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1) 3. COMMON PATH OF TRAVEL (SECTION 1029.8)

LIFE	SAFETY	PLAN	BUILDING	"2"	
SCALE.	1/8" - 1' - 0"				

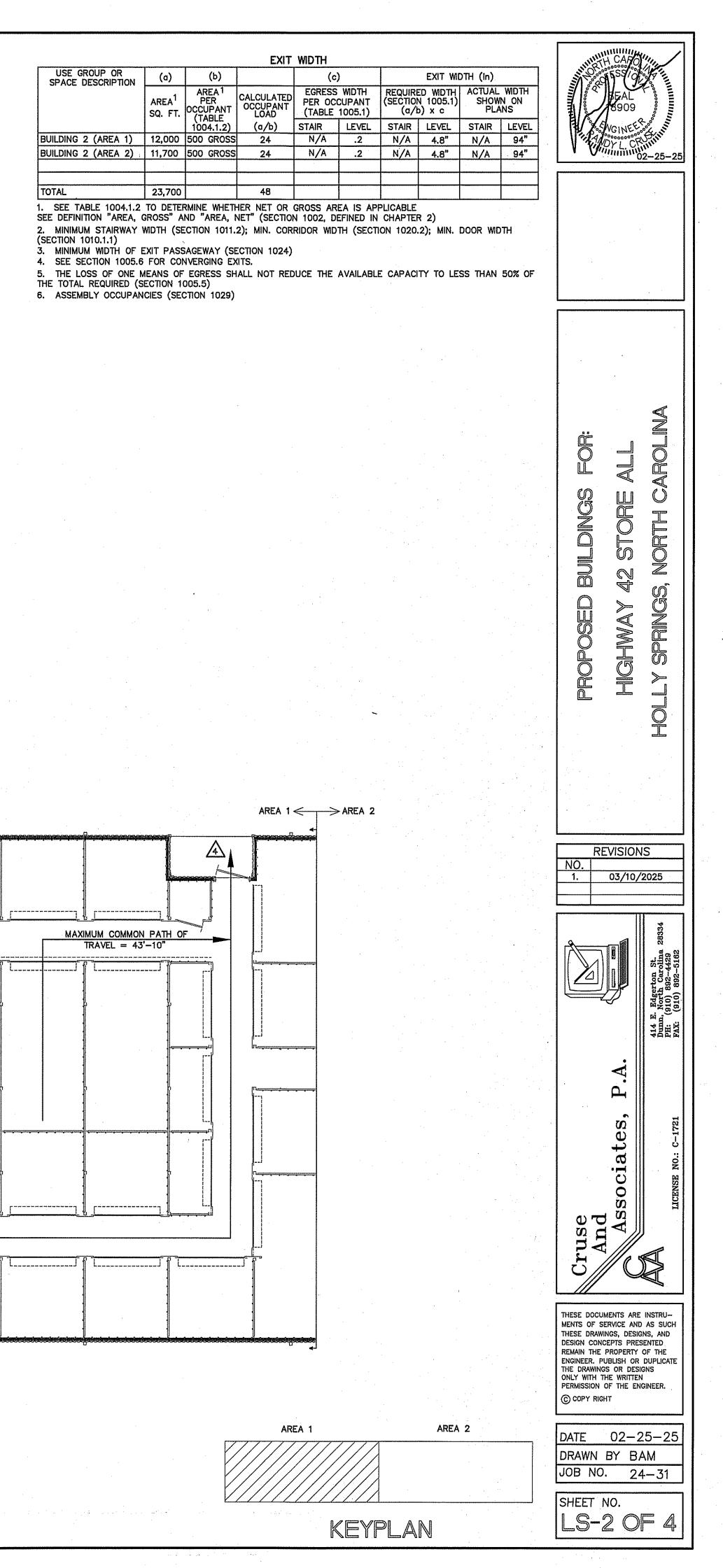
SUALE: 1/8 = 1-0

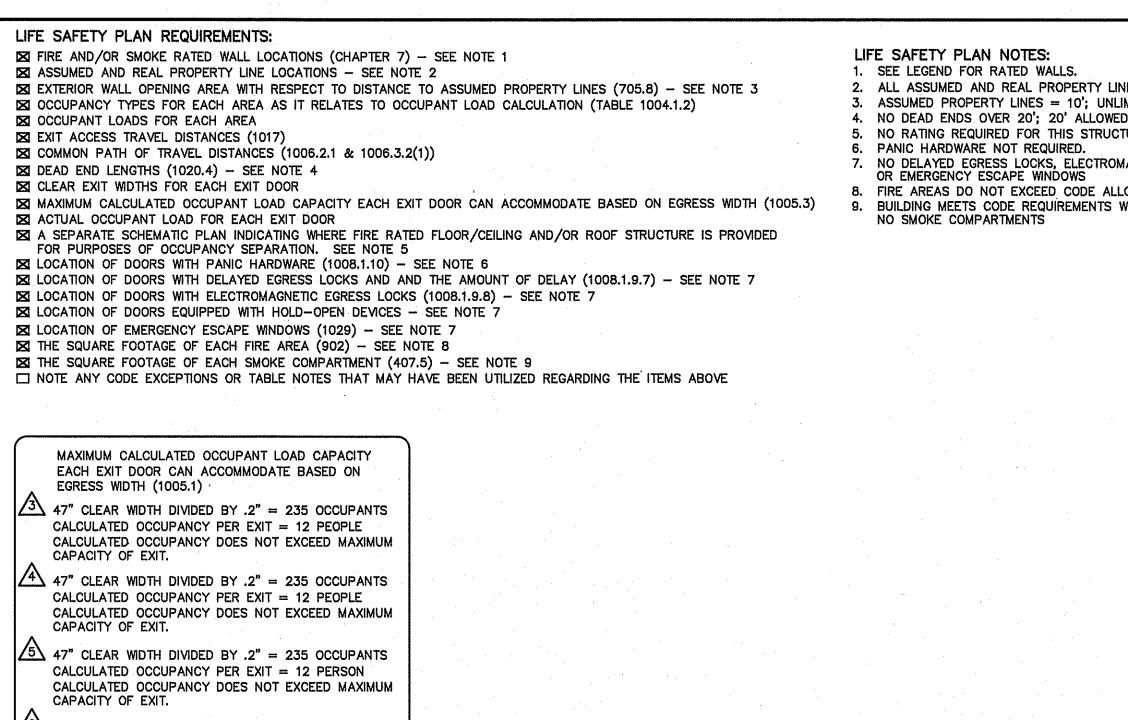
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142'-9" TOTAL LENGTH

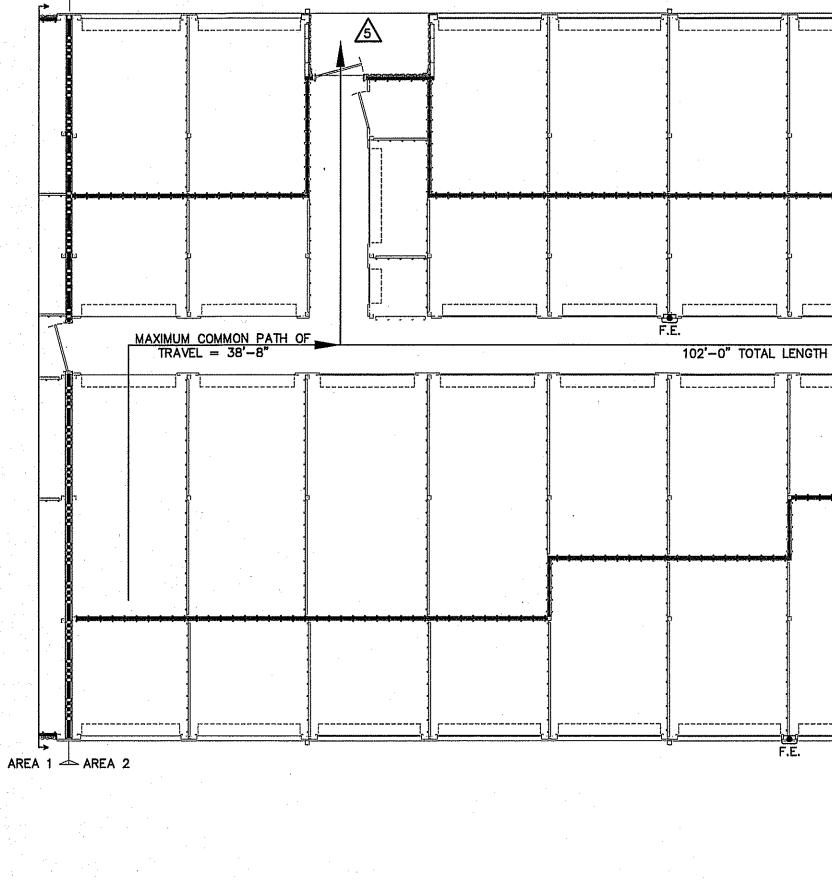
AS DO NOT EXCEED CODE ALLOWANCE





6 47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 12 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

AREA 1 - AREA 2



NOTE: AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

3 HOUR RATED WALL U419

F.E. FIRE EXTINGUISHER CLASS ABC 10 POUNDS

LEGEND

	EXIT REQUIREMENTS: NUMBER AND ARRANGEMENTS OF EXITS								
NES <u>></u> 30' IMITED: 705.8.1 EXC. 2	FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NO. OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1016-102			
D TURE.		REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS		
AGNETIC LOCKS, HOLD OPEN DEVICES,	BUILDING 2 (AREA 1)	2	2	200'	142'-9"	106'-0"	175'-0"		
OWANCE /THOUT SUBDIVISION INTO SMOKE COMPARTMENTS;	BUILDING 2 (AREA 2)	2	2	200'	102'-0"	102'-0"	140'-0"		

CORRIDOR DEAD ENDS (SECTION 1020.4)
 BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1)
 COMMON PATH OF TRAVEL (SECTION 1029.8)

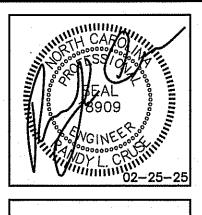
102'-0" TOTAL LENGTH

LIFE	SAFETY	PLAN	BUILDING	"2"
SCALE: 1	/8" = 1'-0"			

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EXIT WIDTH USE GROUP OR (b) (c) EXIT WDTH (in) (a) SPACE DESCRIPTION AREA¹ SQ. FT. OCCUPANT (TABLE 1004.1.2) (0/ EGRESS WDTH REQUIRED WDTH ACTUAL WDTH PER OCCUPANT (SECTION 1005.1) SHOWN ON SHOWN ON PLANS (a/b) x c (TABLE 1005.1) STAIR LEVEL STAIR LEVEL STAIR LEVEL N/A .2 N/A 4.8" N/A 94" BUILDING 2 (AREA 1) 12,000 500 GROSS 24 BUILDING 2 (AREA 2) 11,700 500 GROSS 24 N/A .2 N/A 4.8" N/A 94" 23,700 TOTAL 48

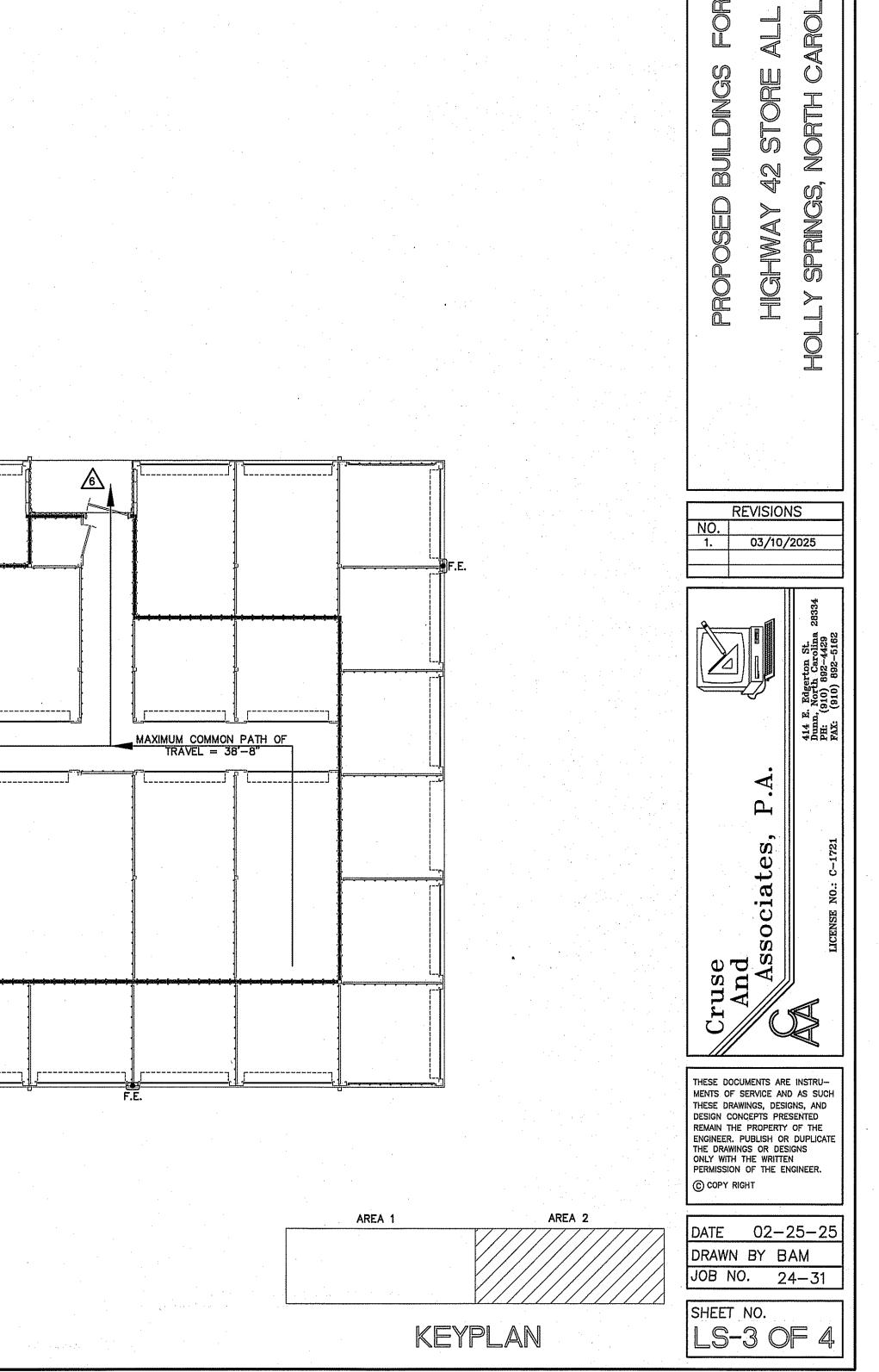


1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)

MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)
 MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)

4. SEE SECTION 1005.6 FOR CONVERGING EXITS.

 THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)
 ASSEMBLY OCCUPANCIES (SECTION 1029)



_IFE	SAF	ETY	PL	AN	REQ	UIREN	MENTS:
------	-----	-----	----	----	-----	-------	---------------

- FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) SEE NOTE 1
- 🔀 ASSUMED AND REAL PROPERTY LINE LOCATIONS SEE NOTE 2
- X EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) SEE NOTE 3 OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2) 🔀 OCCUPANT LOADS FOR EACH AREA
- ☑ EXIT ACCESS TRAVEL DISTANCES (1017)
- SCOMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- 🔀 DEAD END LENGTHS (1020.4) SEE NOTE 4 CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- X MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3) X ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR X A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED
- FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 5
- ☑ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) SEE NOTE 6
- X LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1008.1.9.7) SEE NOTE 7 ☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) - SEE NOTE 7
- X LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES SEE NOTE 7
- ☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) SEE NOTE 7
- ☑ THE SQUARE FOOTAGE OF EACH FIRE AREA (902) SEE NOTE 8
- 🖾 THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) SEE NOTE 9 □ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)

135 "CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 6 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

2 70" CLEAR WIDTH DIVIDED BY .2" = 350 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 6 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.



- 2. ALL ASSUMED AND REAL PROPERTY LINE
- 3. ASSUMED PROPERTY LINES = 35'; UNLIM
- 4. NO DEAD ENDS OVER 20'; 20' ALLOWED 5. NO RATING REQUIRED FOR THIS STRUCTURE.
- 6. PANIC HARDWARE NOT REQUIRED.
- 7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS
- FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
 BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

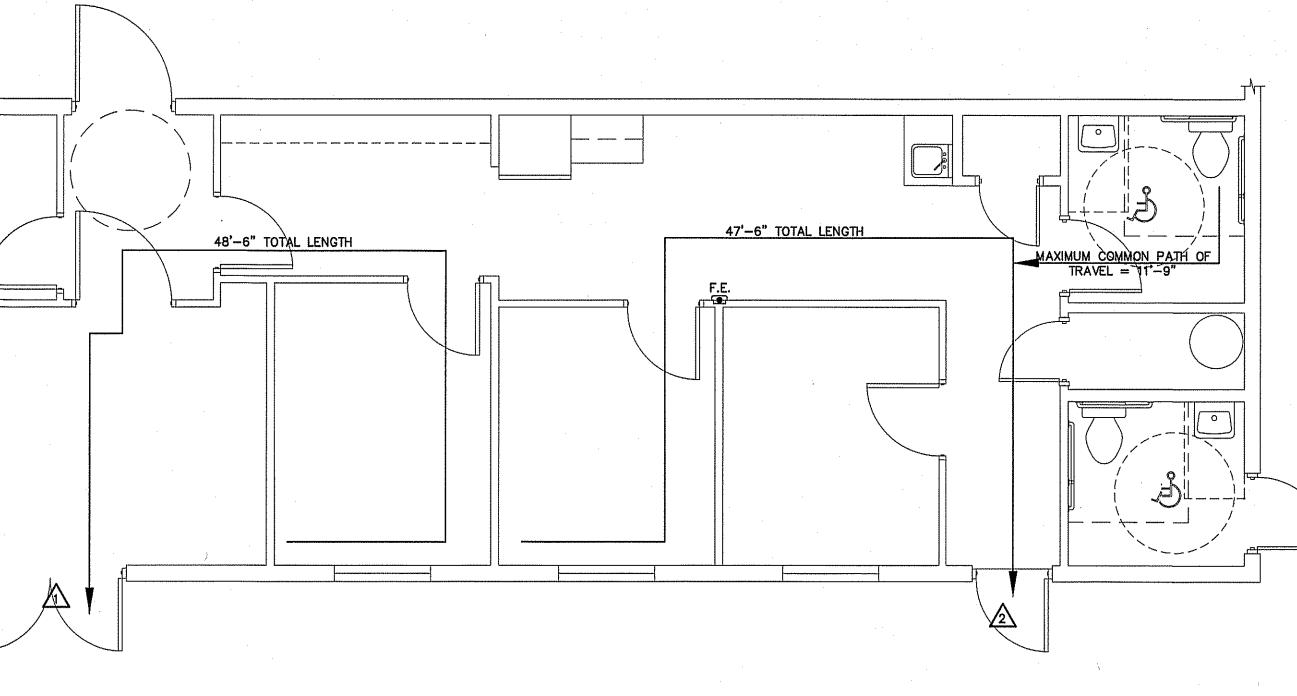
NOTE: AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE. LEGEND F.E. FIRE EXTINGUISHER CLASS ABC 10 POUNDS

EXIT REQUIREMENTS:

ES <u>≥</u> 30	,		
	705.8.1	EXC.	2

۰.		NUMB	ER AND ARRAN	IGEMENTS OF I	EXITS			
FLOOR, ROOM OR SPACE DESIGNATION	MINI NO. OF	MUM ² EXITS	TRAVEL DIS	TANCE	ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1016-102			
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS		
BUILDING 1	2	2	200'	132'-0"	85'-6"	145'-6"		
OFFICE	1	2	200'	48'-6"	31'3"	36"		
	1							

CORRIDOR DEAD ENDS (SECTION 1020.4) 2. BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1) 3. COMMON PATH OF TRAVEL (SECTION 1029.8)



LIFE SAFETY PLAN BUILDING "1" (OFFICE) SCALE: 1/4" = 1'-0"

		. ,	EXIT	WIDTH					
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c)		EXIT W	OTH (in)	
	AREA ¹ SQ. FT.	AREA ¹ PER OCCUPANT (TABLE	CALCULATED OCCUPANT LOAD	EGRESS PER OC (TABLE		REQUIRE (SECTION (a/t	ED WIDTH N 1005.1) p) x c	ACTUAL SHOW PL/	N ON
		1004.1.2)	(a/b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
BUILDING 1	9,600	500 GROSS	20	N/A	.2	N/A	4.4"	N/A	94"
OFFICE	1,200	100 GROSS	12	N/A	.2	N/A	2.4"	N/A	108"
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TOTAL	10,800								

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1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE

SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)

2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1) 3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)

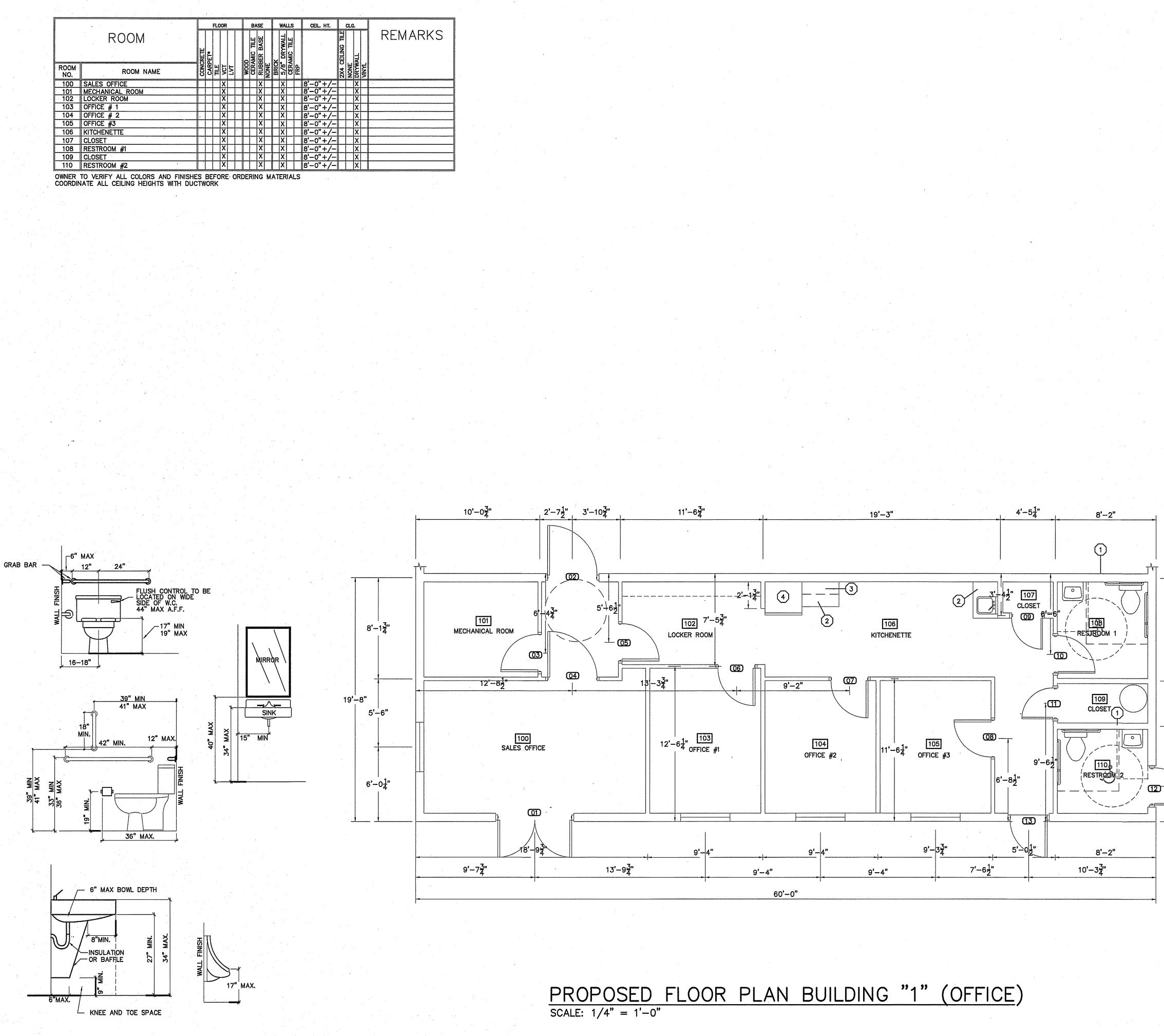
4. SEE SECTION 1005.6 FOR CONVERGING EXITS.

5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5) 6. ASSEMBLY OCCUPANCIES (SECTION 1029)

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DATE 02-25-25 DRAWN BY BAM JOB NO. 24-31 SHEET NO. LS-4 OF



RESTROOM ACCESSIBILITY DETAILS

)0(DR	SCHEDULE	· · · ·	
DOOR NO.	D WIDE	OOR SI HIGH	ZE THICK.	REMARKS		
OD	6'-0"	7'-0"	1 3/4"	EXTERIOR STOREFRONT DOOR WITH H.M. FRAME		
02	4'-0"	7'-0"	1 3/4"	INTERIOR METAL DOOR WITH H.M. FRAME		I V
03	3'-0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME		<u></u>
Q4)	4'0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME	·	
(05)	3'0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME		
<u>(</u> (6))	3'-0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME		
(07)	3'0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME		
(08)	3'-0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME	•	
09	2'-6"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME	_	
(III)	3'-0"	7'-0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME		
Œ	2'-6"	7'0"	1 3/4"	INTERIOR WOOD DOOR WITH H.M. FRAME		
(12)	3'-0"	7'-0"	1 3/4"	EXTERIOR METAL DOOR WITH H.M. FRAME		
[]]	3'-0"	7'-0"	1 3/4"	EXTERIOR STOREFRONT DOOR WITH H.M. FRAME		

KEY NOTES:

2 BASE CABINET SELECTED BY OWNER

(3) WALL CABINET SELECTED BY OWNER

4 REFRIGERATOR, SELECTED BY OWNER

INTERIOR WALLS; 3-5/8", 20 GA. METAL STUDS @ 16" O.C.

"WET WALLS" (1): 6", 20 GA METAL STUDS @ 16" O.C.

- OFFICE

KEY PLAN scale: nts

1 WET WALLS. SEE NOTES.

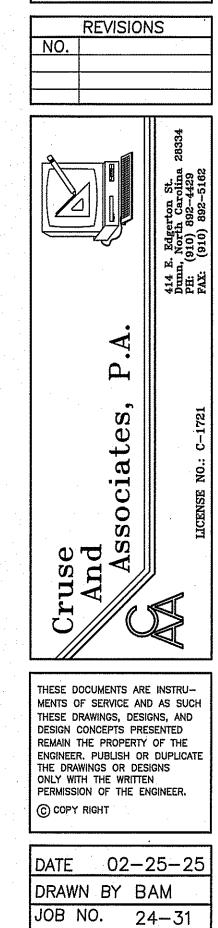
NOTES:

VERIFY TYPES AND SIZES WITH OWNER BEFORE ORDERING. PROVIDE ALL HARDWARE AS REQUIRED. ALL HARDWARE TO BE A.D.A. COMPLIANT. VERIFY HARDWARE FINISHES & STYLES WITH OWNER BEFORE ORDERING.

8'-3<u>1</u>"

3'-73"

4'-10]"



SHEET NO.

F-1 OF 1

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ALL

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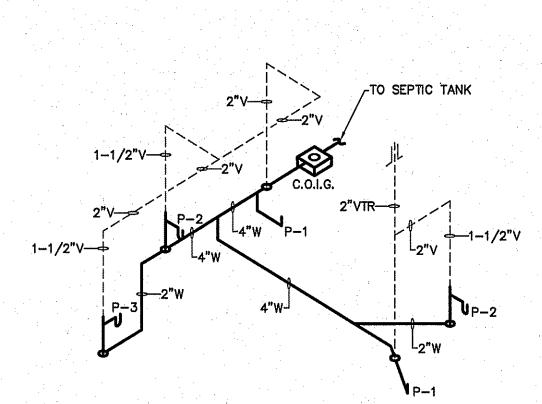
HIGHWAY

BUILDINGS FOR:

PROPOSED

PLUME	BING	LEGE	END	
DESCRIPTION	S	YMBOL		
COLD WATER	• • • • •		- • •	CW -
HOT WATER				— нw
COLD WATER (FILTERED)	·	t	Li,	
RECIRCULATED WATER -	•	• • • •		HWR
VENT PIPING				V
WASTE PIPING	NEW		EXISTING	} W
CLEAN OUT IN GRADE	0	C.O.I.G.		
FLOOR CLEAN OUT	0	F.C.O.		
NON FREEZE HOSE BIBB		- NFHB		
FLOOR DRAIN	•	F.D.		;
CHECK VALVE	-7-	-	• .	· · · ·
BALL VALVE	₩	4994 · · ·		
GATE VALVE				
SHUT-OFF VALVE				· · · ·
DOUBLE CHECK VALVE				
FIXTURE DESIGNATION	P			· · · ·
MOUNTING HEIGHT	МН			
POINT OF CONNECTION NEW TO EXISTING	•			
FLOOR SINK			· · ·	
SHOCK ABSORBER W/BALL VALVE SHUT-OFF 5		SIZE PER RECOMMEN	MANUF.	· · · · ·
CHANGE IN PIPE SIZE	>			
				-

			PLUMBING FIXTUR
MARK	MAKE	MODEL	DESCRIPTION
P-1	AMERICAN STANDARD	CADET 2377.100	EL 1.6/PA 16.5"HC ELONGATED WATER HC ACCESSIBLE, TANK TYPE
P-2	AMERICAN STANDARD	LUCERNE 0355	WALL HUNG LAVATORY
P-3	_	, _	SINGLE BOWL SINK
P-4	STATE	4.5KW WATER HEATER	

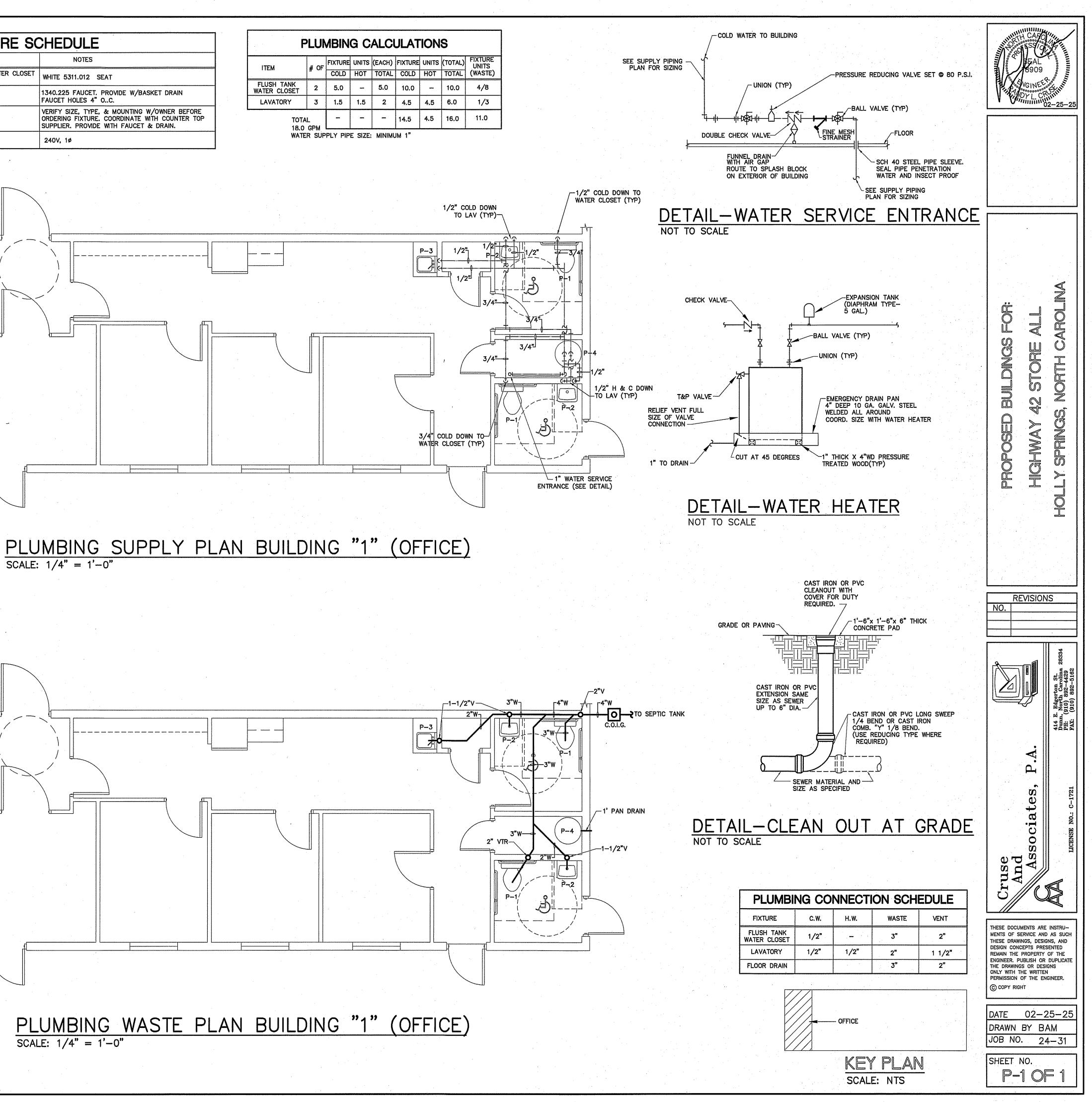


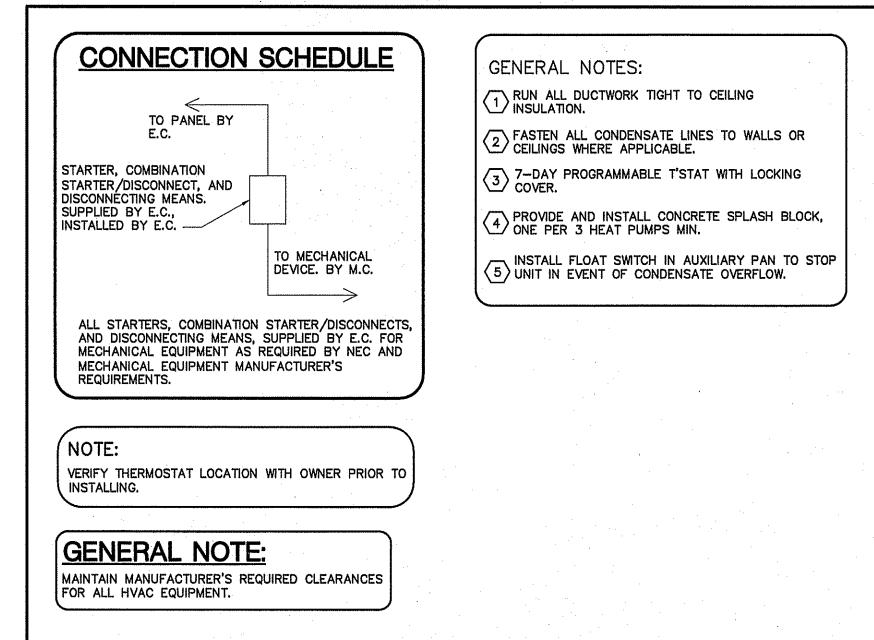
WASTE & VENT RISER DIAGRAM

NOT TO SCALE

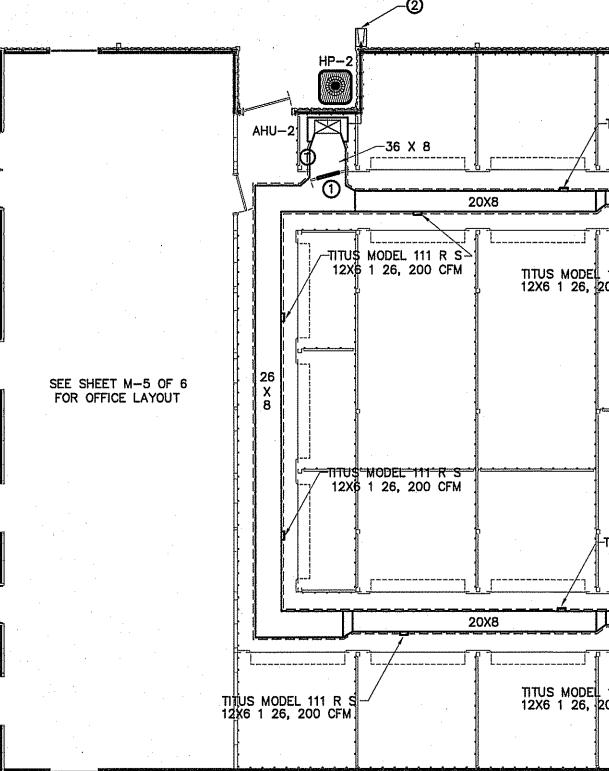
GENERAL PLUMBING NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- 2. CONTRACTORS SHALL COORDINATE PIPING WITH ALL OTHER TRADES.
- 3. CONTRACTOR SHALL REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS FOR DIMENSIONS.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
- 5. CONTRACTOR SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES AT ALL FINISHED WALLS, CEILINGS AND FLOOR OPENINGS.
- 6. PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE. (REFER TO SPECIFICATIONS.)
- ALL PIPING SHALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THE PIPING SHALL BE REPAIRED, RESOLDERED OR REPLACED AND RETESTED.
- 8. ALL SOLDER SHALL BE OF THE LEAD FREE TYPE.
- 9. WATER HEATER SHALL BE SUPPLIED WITH FACTORY INSTALLED T&P VALVES AND SHALL HAVE UNIONS AND ISOLATION VALVES.
- 10. DOMESTIC WATER SUPPLY PIPING SHALL BE COPPER OR CPVC. PEX IS ALLOWED WHERE PERMITTED BY CODE
- 11. WASTE AND VENT PIPING SHALL BE SCH. 40 PVC OR HEAVY DUTY CAST IRON UNDER TRAFFIC AREAS. 12. INSTALL THERMOSTATICALLY CONTROLLED MIXING VALVES AS NEEDED TO ENSURE HOT WATER TEMPERATURE TO ALL HAND WASHING LOCATIONS DOES NOT EXCEED 110F.
- 13. ALL FLOOR DRAINS & HUB DRAINS SHALL BE PROVIDED WITH TRAP PRIMER EXCEPT FLOOR DRAINS IN TOILETS WHERE HOSE BIBS ARE PROVIDED.
- HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBROUS GLASS INSULATION. COLD WATER PIPING SHALL BE INSULATED WITH 1/2" FIBROUS GLASS INSULATION. VAPOR BARRIER SHALL BE APPLIED TO EACH.



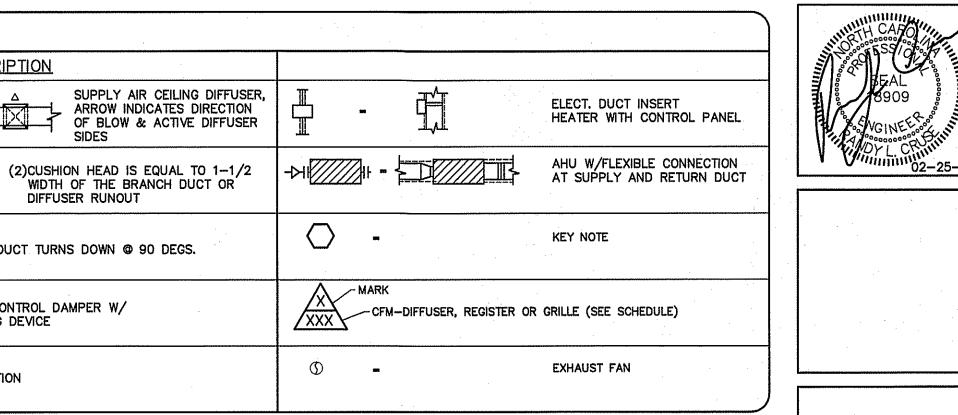


(MECHANICA	L SYMBOL LEGEND
ſ	SINGLE LINE	DOUBLE LINE DESCRIPTION	SINGLE LINE DOUBLE LINE DESCRIPTION	SINGLE LINE DOUBLE LINE DESCRI
-		TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK	VOLUME CONTROL DAMPER (TYP)	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
		BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK		(1)CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT
	<u> </u>			
	- O OR O -		RETURN AIR OR EXHAUST GRILLE	MANUAL VOLUME CO QUADRANT LOCKING
	A.D	ACCESS DOOR DOOR SIZE DUCT HEIGHT 8X8 10" 10X10 12" 12X12 14" & LARGER	Two sided transition	



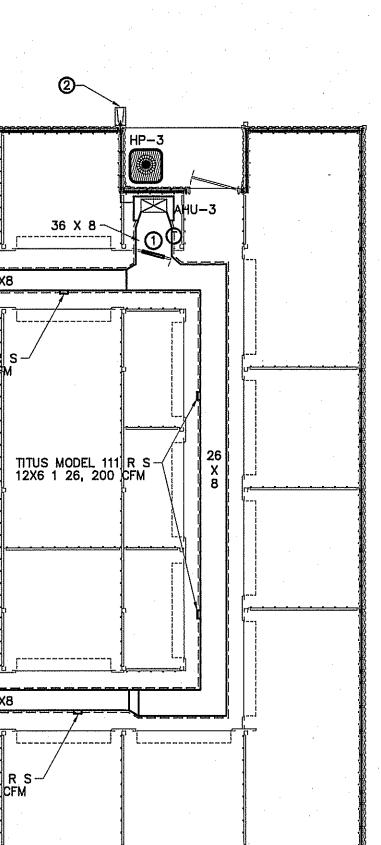
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12X6 1 26, 200	CFM	12X6 1	26, 200 CFM		12X6 1 26, 2	DO CFM	12X	6 1 26, 200 CFM	
	<u> </u>			<u> </u>					
	14X8						14X8		2(
<u> </u>	<u> </u>] [] {	<u>[</u>]	<u> </u>	<u> </u>		ſ	/ []	
111 R S					1	TITUS) 12X6 1	ODEL 111 R S		TITUS MODEL 111 12X6 1 26, 200 0
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									Constitution Constitution of a second se
ITUS MODEL 111 12X6 1 26, 200	R S CFM	-TITUS M 12X6 1	ODEL 111 R S 26, 200 CFM		TITUS MODEL 12X6 1 26, 20	111 R S- 0 CFM	ППU 12X	S MODEL 111 R S- 6 1 26, 200 CFM	
[]		<u> </u>		 		<u> </u>	l		
	14X8						14X8		20
	<u> </u>		\ م	<u> </u>]	- ــــــــــــــــــــــــــــــــــــ	<u> </u>		
	L	L	L	L	LJ	L		L	L
111 R S-/ DO CFM					- -	12X6 1	NODEL 111 R S		TITUS MODEL 11 12X6 1 26, 200

MECHANICAL HVAC PLAN BUILDING "1" SCALE: 1/8" = 1'-0"



KEY NOTES:

16" X 16" TRANSFER GRILL INSTALLED IN DOOR (TYPICAL) 2 3/4" CONDENSATE LINE FROM EACH AHU TO SPLASH BLOCKS



HTHON 42 ഹി PROPOSED HIGHWAY ŋ **D**H REVISIONS NO. 414 E. Edgerton 1 Dunn, North Caro PH: (910) 892–4 FAX: (910) 892–5 Y Д $\mathbf{\Omega}$ θ

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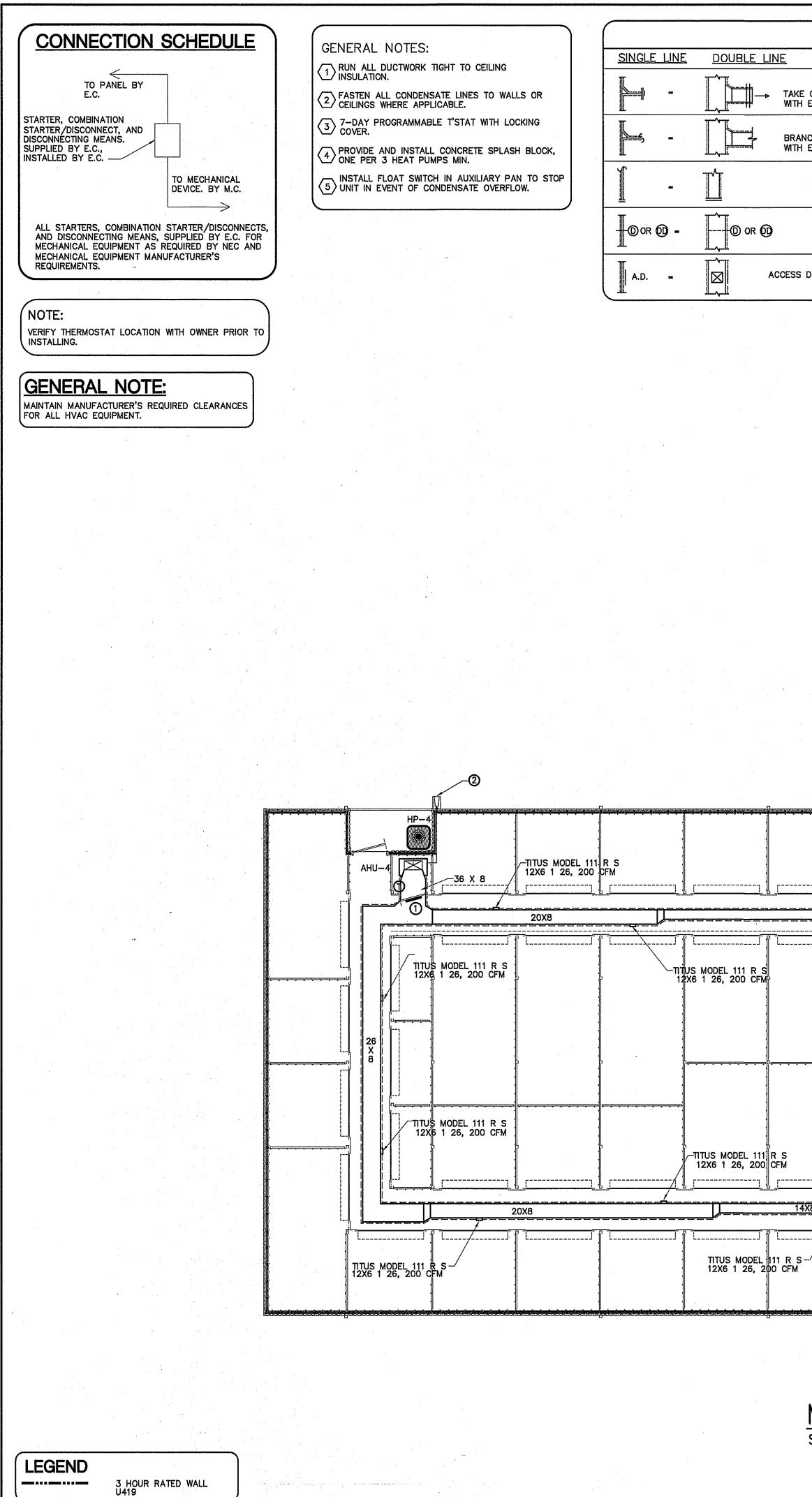
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SHEET NO. M-1 OF 5



	5. 		MECHANICA	L SYN	IBO	L LEG	END	
<u>DESCRIPTION</u>	SINGLE LINE	DOUBLE LINE	DESCRIPTION	<u>SINGLE</u>	LINE	DOUBLE	LINE	DESCRIP
TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK	₽ -1~⁄⊠ -		CONTROL DAMPER (TYP) CEILING DIFFUSER EXIBLE DUCTWORK (14' MAX.)		⊲ ∑ Þ (2–₩АҮ)	⊲ <u> </u>	△ ◇ 4–₩AY)	
BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK	-		IE SIDED REDUCING TRANSITION		HION D	(1)((1)	CUSHION HEAD @ DR DIFFUSER RUN	BRANCH (2 OUT
END CAP			D.=FIRE DAMPER -1/2)=RATED FOR 1-1/2 HRS.	 3	542	20	R.A. OR E	XHAUST DUC
DUCT SMOKE DETECTOR	-	RE	TURN AIR OR EXHAUST GRILLE		=			Volume Cont T Locking Di
DOOR SIZE DUCT HEIGHT ESS DOOR	표 -	Å	TWO SIDED TRANSITION	티어드	111	Å	TWO SIDE	D TRANSITION

 -TITUS MODEL 111 R S
 TITUS MODEL 111 R S

 12X6 1 26, 200 CFM
 12X6 1 26, 200 CFM

TITUS MODEL 111 R S-12X6 1 26, 200 CFM

TITUS MODEL 111 R S 12X6 1 26, 200 CFM

TITUS MODEL 111 R S-12X6 1 26, 200 GFM

14X8

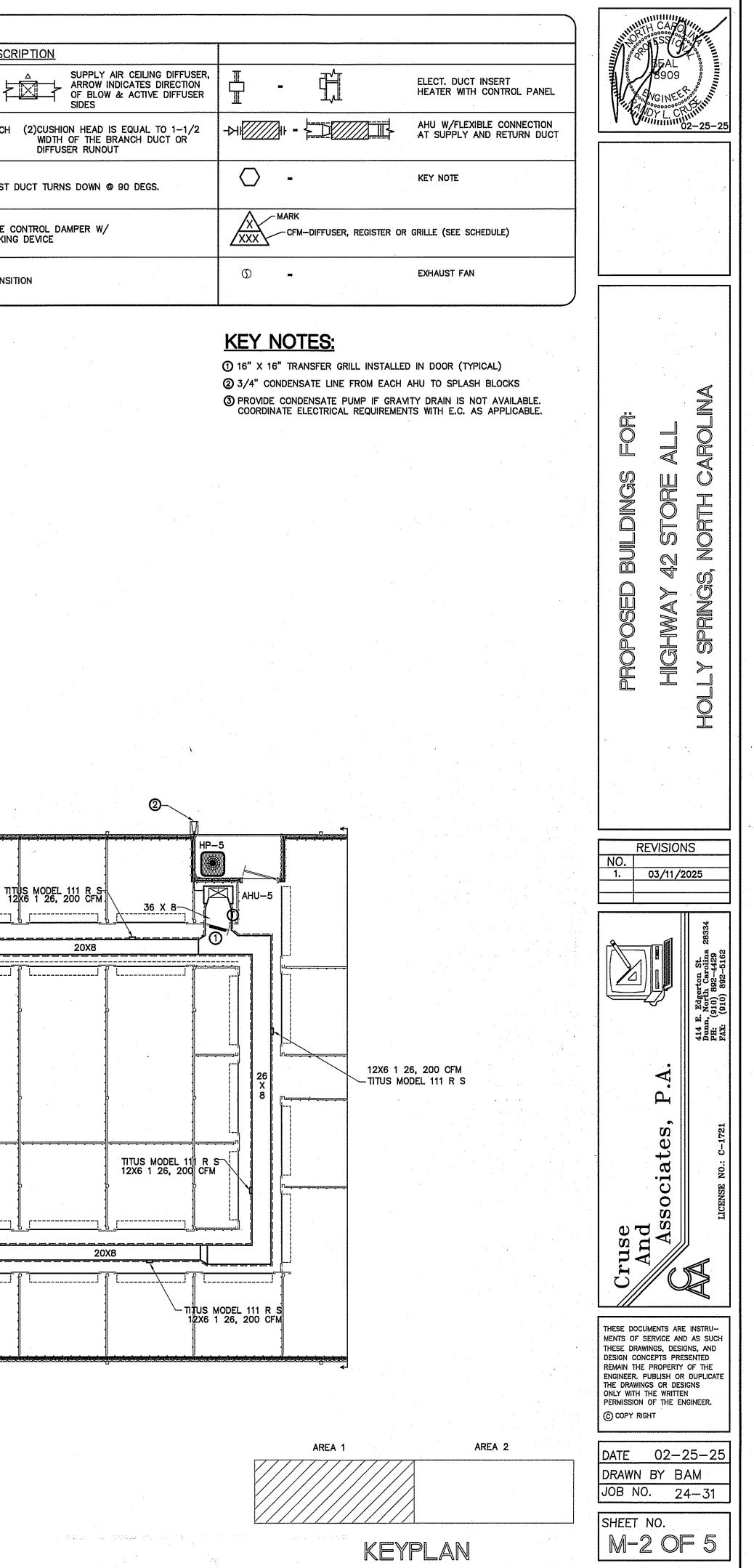
MECHANICAL HVAC PLAN BUILDING "2"

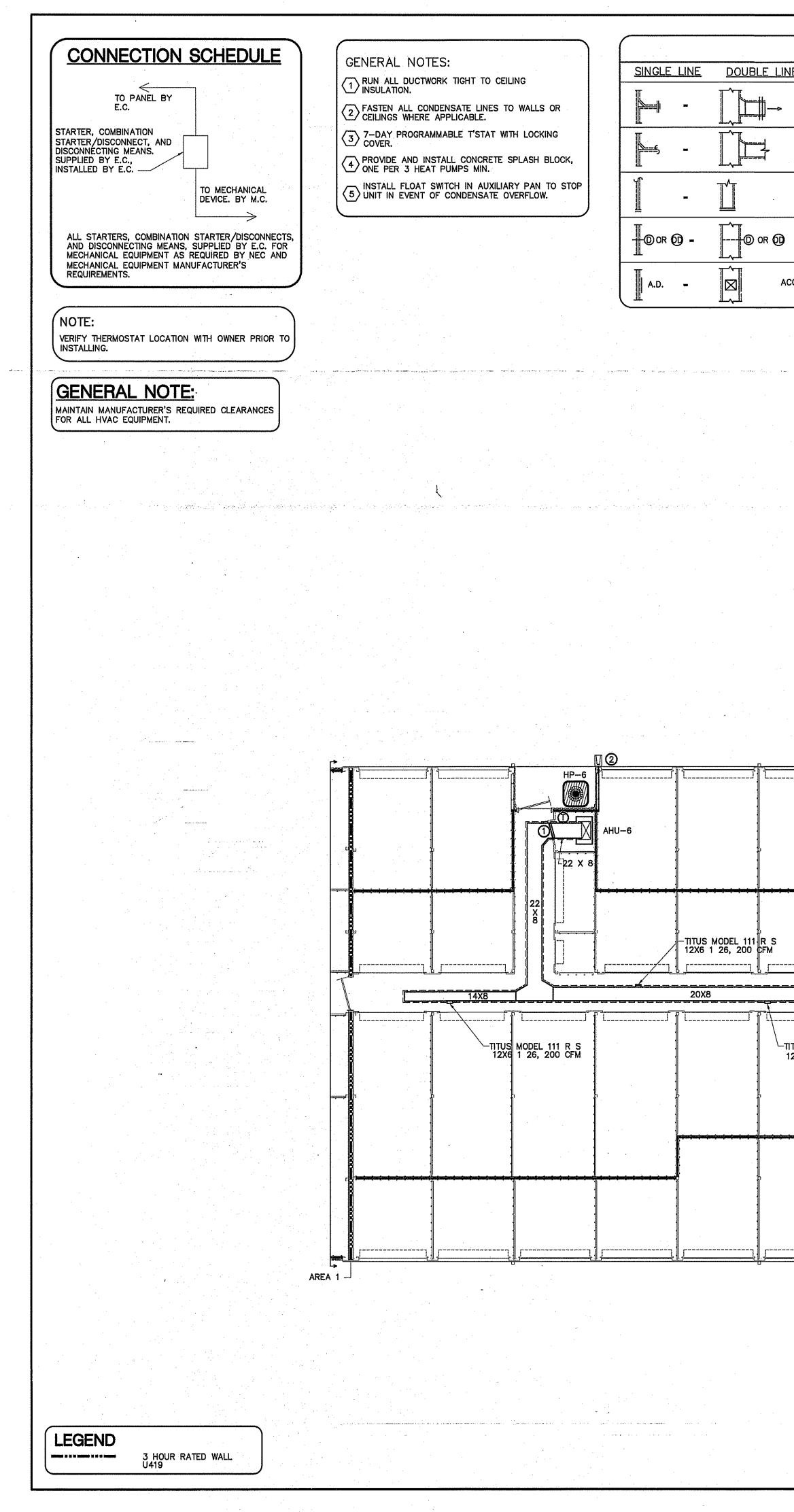
SCALE: 1/8" = 1'-0"

TITUS MODEL 111 R S 12X6 1 26, 200 CFM

11TUS MODEL 111 R S 12X6 1 26, 200 CFM

14X8

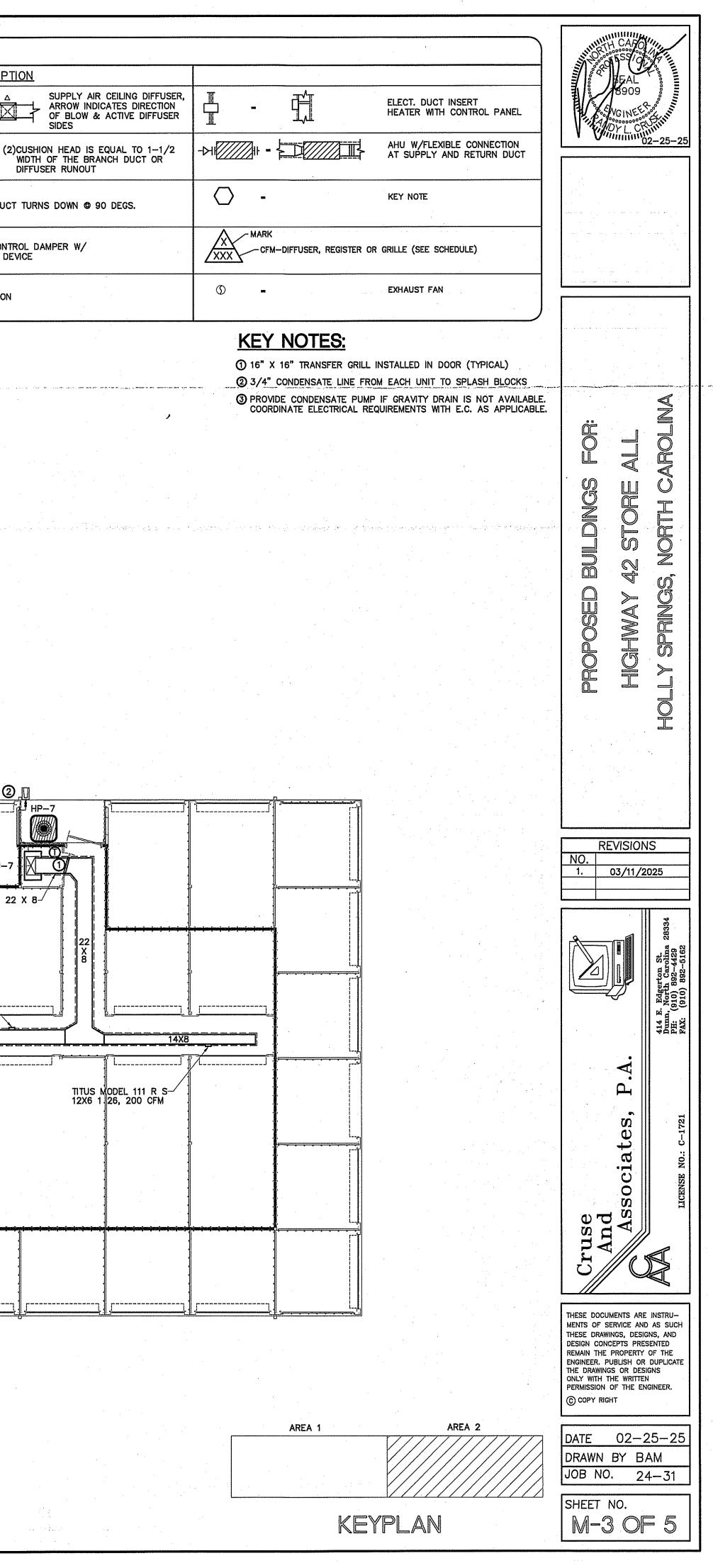




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· · · · · · · · · · · · · · · · · · ·			MECHANIC	201	SYMRC		
E DESCRIPTION	SINGLE LINE	DOUBLE LI		I	SINGLE LINE	DOUBLE LI	
TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK	- B		UME CONTROL DAMPER (TYP)		N ⊲ ∑ □ -WAY) (2-WAY	· ⊲ ∑ ⊳ ⊲ ∑) (3–₩AY) (4–₩	
BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK	-	Ê	ONE SIDED REDUCING TRANSIT				HON HEAD @ BRANCH (: NFFUSER RUNOUT
END CAP	F.D.(1-1/2)		F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 H			E Z	R.A. OR EXHAUST DUG
DUCT SMOKE DETECTOR		<u>E</u>	RETURN AIR OR EXHAUST GRI				MANUAL VOLUME CON QUADRANT LOCKING D
DOOR SIZE DUCT HEIGHT CESS DOOR 8X8 10" 10X10 12" 12X12 14" & LARGER	<u>₩</u> =	Å	TWO SIDED TRANSITION			Ŕ	TWO SIDED TRANSITION
	_ L		<u>.</u>				
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MECHANICAL HVAC PLAN BUILDING "2"

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



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				MECHANICAL S	SYMBO	L LEC	GEND	
	SINGLE LINE	DOUBLE LINE	DESCRIPTION		SINC	<u>GLE_LINE</u>	DOUBLE LIN	E
	-		F TO SUPPLY AIR REGISTE	R WITH EXT. INSUL. DUCTWORK		⊪~⊠ -	VOLUM	E CONTROL I
	-	BRANCH	TAKEOFF FROM MAIN TRU	NK DUCT WITH EXT. INSUL. DUCTWOR	ĸ	-	Ê	ON
	-		END CAP			F.D.(1-1/2)		F.I (1
			DUCT SMOKE DETECTOR		==	•	A 270	RE
	A.D		ACCESS DOOR	D <u>OOR SIZE DUCT HEIGHT</u> 8X8 10" 10X10 12" 12X12 14" & LARGER	単数手手	-		TWO SIDED

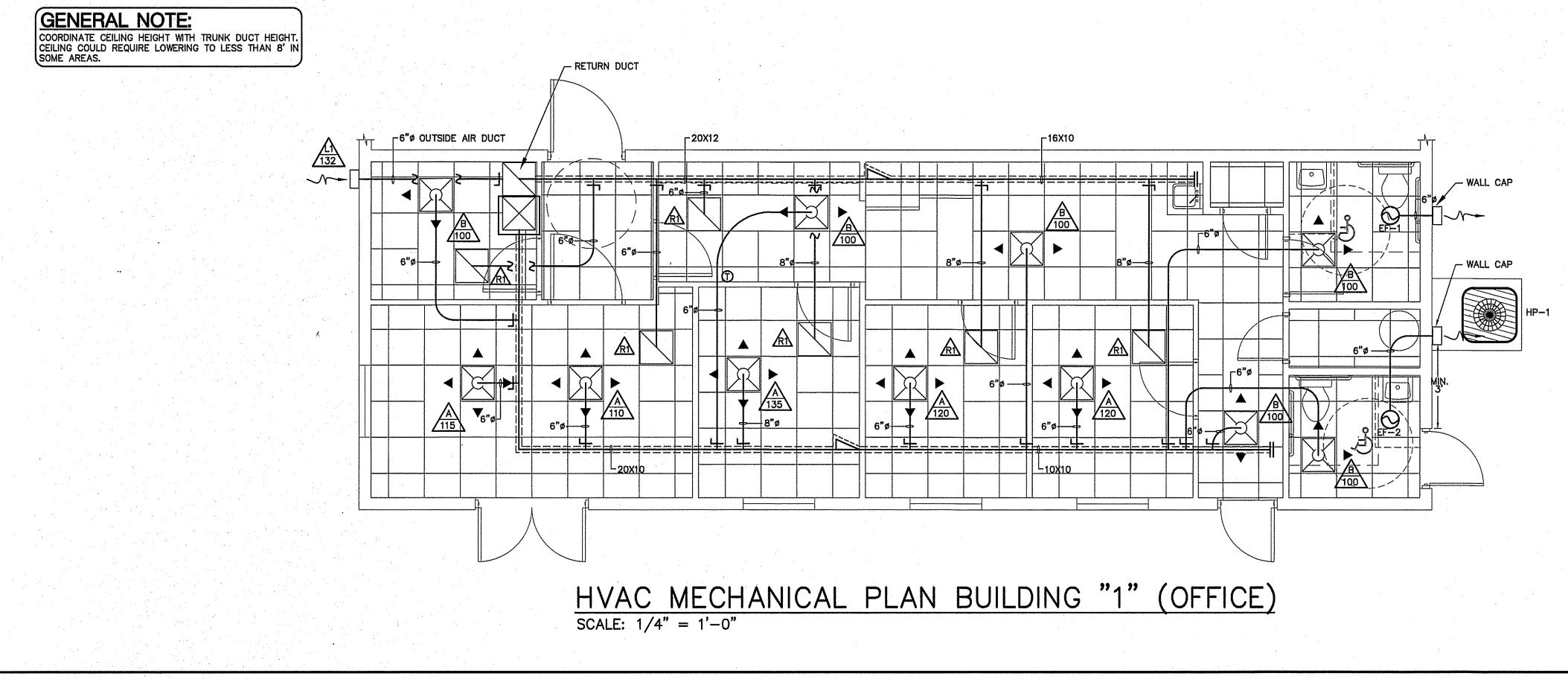
	REGISTER, GRILLE, & DIFFUSER SCHEDULE*											
MARK DESCRIPTION MAX. NECK BORDER TYPE MATERIAL FINISH MANUFACTURER MODEL NUMBER ACCESSORIES / NOTES												
А	DIFFUSER-4-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 4	SQ-TO-RND			
В	DIFFUSER-2-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 2	SQ-TO-RND			
R1	RETURN GRILLE	30	20"X20"	LAY-IN	STEEL	WHITE	TITUS	23RL 20X20 24X24 3 26	SQ-TO-RND			

* VERIFY CEILING TYPE BEFORE ORDERING, NARROW TEE REQUIREMENTS, PLASTER FRAMES ETC. TO BE INCLUDED WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER

	EXHAUST FAN SCHEDULE										
				0711	EXTERNAL	ELECTRICAL			NOTEC		
MÁRK	MAKE	MODEL	TYPE	CFM	S.P. IN (W.G.)	AMPS	VOLT	PH	HZ	NOTES	
EF-1,2	GREENHECK	SPA90	CEILING FAN	70	.125	.34	115	1ø	60	WC-8 WALL CAP	

	LOUVER SCHEDULE											
MARK	DESCRIPTION	SERVES	CFM	APPROXIMATE OUTSIDE DIMENSIONS (W X H)	MODEL							
L1	OUTSIDE AIR LOUVER	VARIES		12"X12"	HART & COOLEY 1530ZF 12X12 W/ INSECT SCREEN							

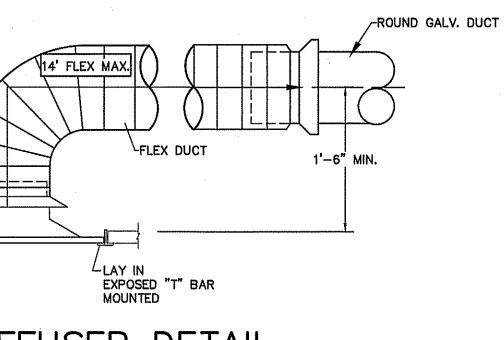
PANDUIT STRAP-∠SURFACE MOUNTED



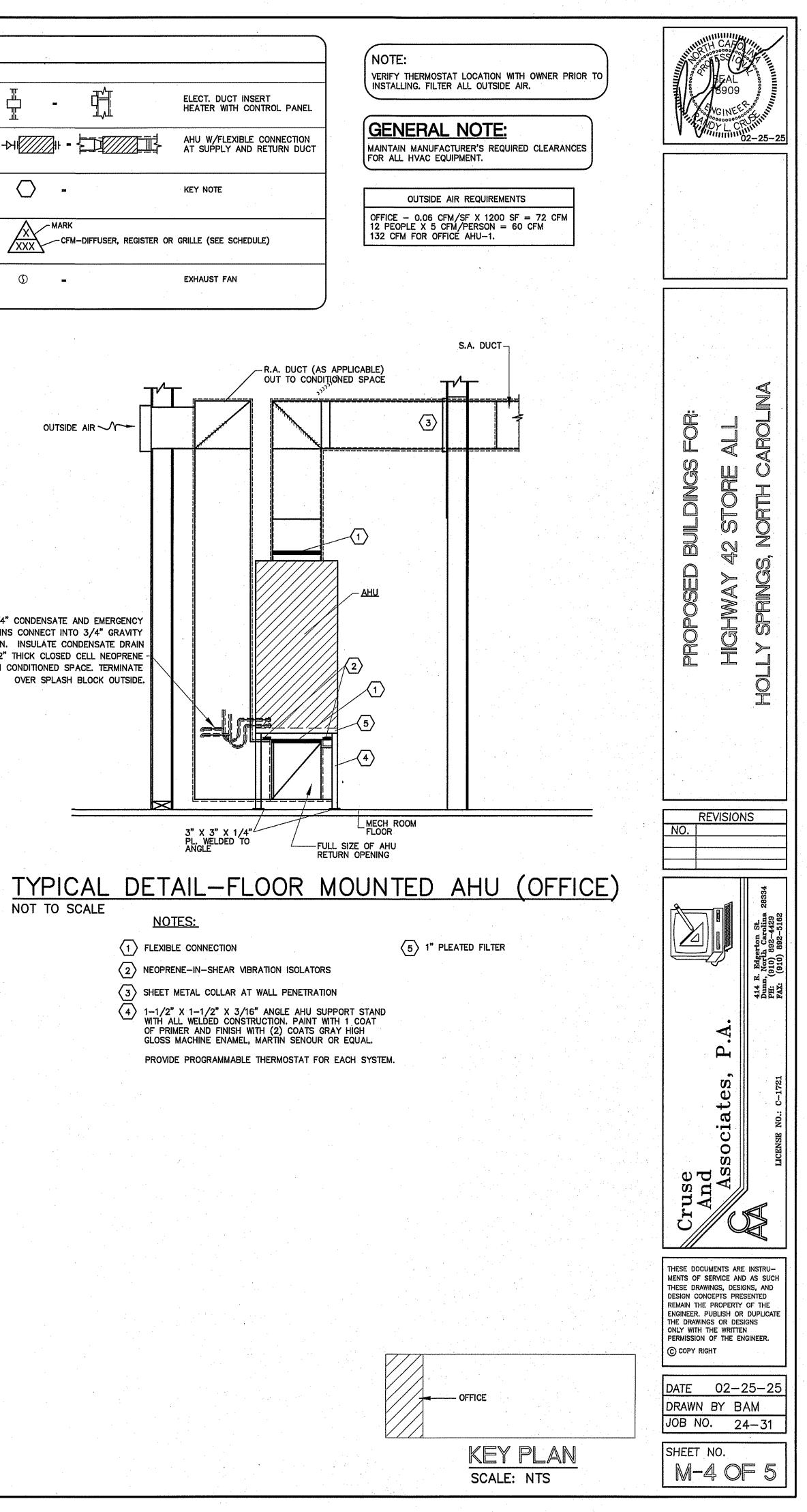
		· .
DESCRIPTION	SINGLE LINE DOUBLE LINE DESCRIPTION	
DAMPER (TYP) ING DIFFUSER UCTWORK (14' MAX.)	(1 - WAY) (2 - WAY) (3 - WAY) (4 - WAY)	
NE SIDED REDUCING TRANSITION	(1-WAY) (2-WAY) (3-WAY) (4-WAY) SIDES (1)CUSHION HEAD Image: Branch or and the second of	
D.=FIRE DAMPER -1/2)=RATED FOR 1-1/2 HRS.	R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.	-
ETURN AIR OR EXHAUST GRILLE	MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE	XXXX MARK CFM-DIFFUSER, REG
D TRANSITION	Two sided transition	() -

OUTSIDE AIR

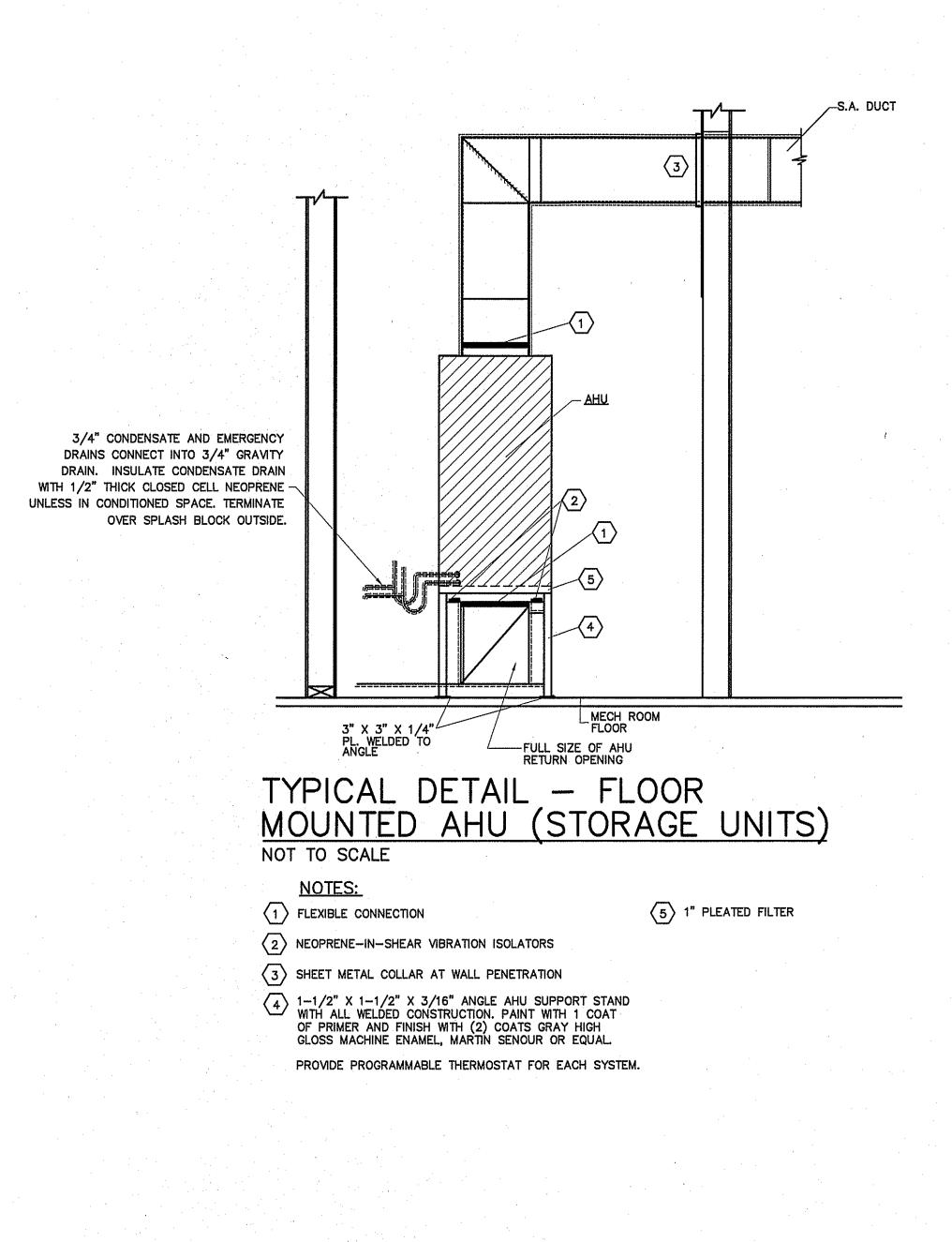
3/4" CONDENSATE AND EMERGENCY DRAINS CONNECT INTO 3/4" GRAVITY DRAIN. INSULATE CONDENSATE DRAIN WITH 1/2" THICK CLOSED CELL NEOPRENE UNLESS IN CONDITIONED SPACE. TERMINATE OVER SPLASH BLOCK OUTSIDE.



DIFFUSER DETAIL NOT TO SCALE



							Alf	r hai	NDLE	ER UN	VIT									· .	SPLIT	SYSTEM H	HEAT PL	JMP UNIT
AHU NO.	MANUFACTURE	MODEL	VOLTAGE		OUTSIDE	CFM		REF	LINES	GEED	HTR KW	COO CAPACIT	ling Y (MBH)	HEA ⁻ CAPACIT	TING Ƴ(MBH)	HSPF	MIN. CIRC. AMPACITY	M.O.C.P.	MARK	MANUF.	MODEL	VOLTAGE	# COMP.	MIN. CIRC. AMPACITY
ANU NO.	MANUFACIORE	MODEL	VOLIAGE	E.S.P.	AIR (CFM)	GEM		GAS		JEEN	(240)	TOTAL	SENS.	HIGH	LOW	nərr								AWEAGET
\HU-6,7	TRANE	TEM4A0B31M31	240/1/60	.46		1000	32.0	3/4	3/8	14.3	7.68	28.4	22.4	27.2	18.5	8.5	43	45	HP-6,7	TRANE	4TWR5030N1000A	240/1/60	1	17
AHU-1	TRANE	TEM4A0B42S41	240/1/60	.46	N/A	1200	32.0	7/8	3/8	14.8	7.68	38.4	26.8	34.0	22.4	9.0	45	45	HP-1	TRANE	4TWR5036N1000A	240/1/60	1	18
\HU-2,3	TRANE	TEM4A0C61M51	240/1/60	.46		2000	32.0	1-1/8	3/8	14.5	7.68	56.8	42.8	54.9	36.2	8.5	48	50	HP-2,3	TRANE	4TWR5048N1000A	240/1/60	1	26
\HU4,5	TRANE	TEM4A0C61M51	240/1/60	.46	_	2000	32.0	1-1/8	3/8	14.5	7.68	56.8	42.8	54.9	36.2	8.5	48	50	HP-4,5	TRANE	4TWR5060H1000A	240/1/60	1	32



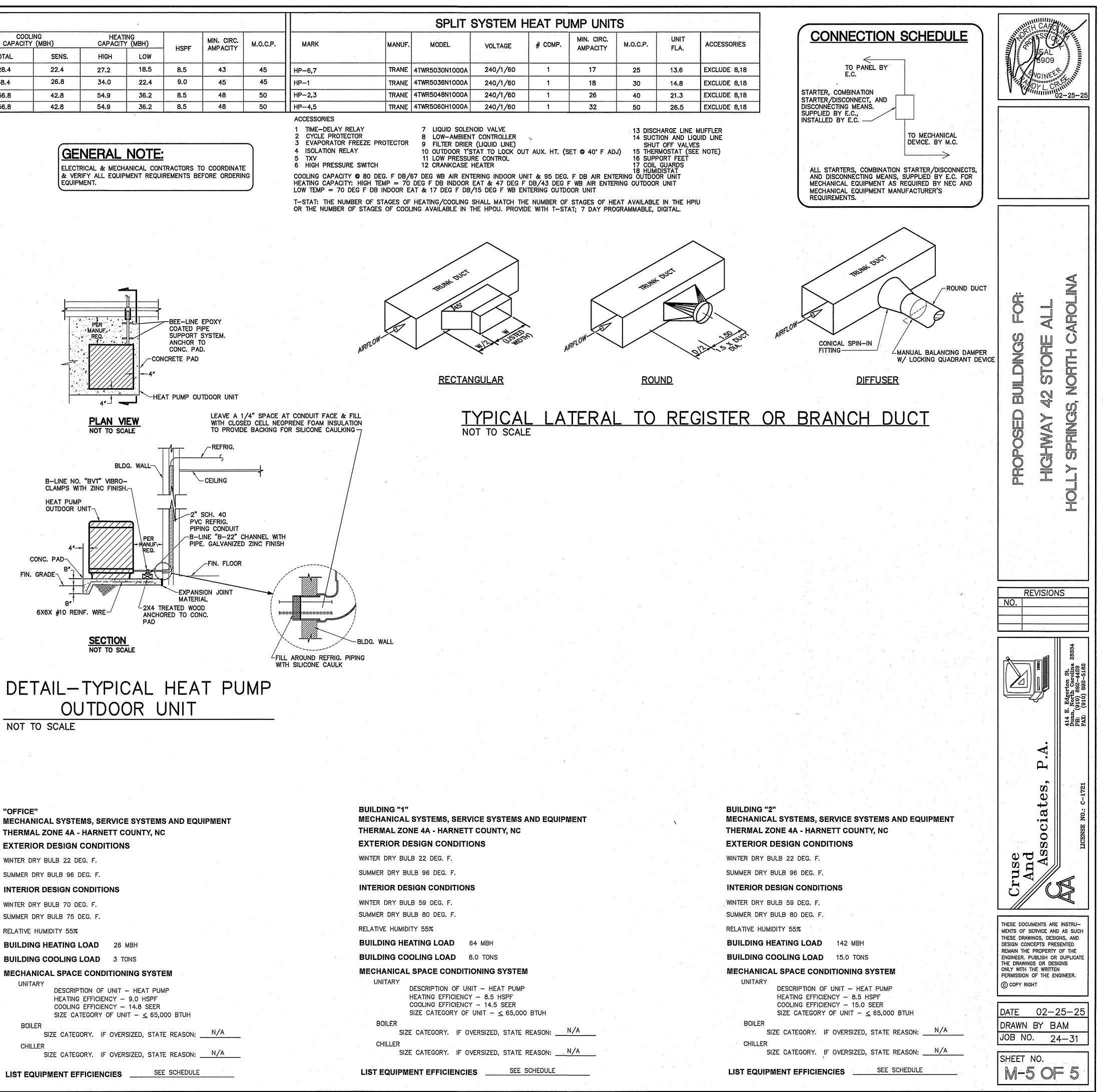
MECHANICAL NOTES (GENERAL)

- 1. DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 2. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED
- TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS. 3. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- 4. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. DUCT SIZES SHOWN ARE NET INTERIOR DIMENSIONS.
- 5. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK, OR EQUIPMENT.
- 6. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- 7. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS.
- 8. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- 9. PROVIDE FACTORY OR FIELD INSTALLED DRAIN PANS UNDER ALL COOLING COIL UNITS. INSTALL DRAIN PAN FLOAT TO SHUT DOWN UNIT FAN IN EVENT THAT CONDENSATE BEGINS TO FILL EMERGENCY DRAIN PAN. RUN ALL CONDENSATE DRAIN LINES TO APPROPRIATE DRAIN.

- CYCLE PROTECTOR

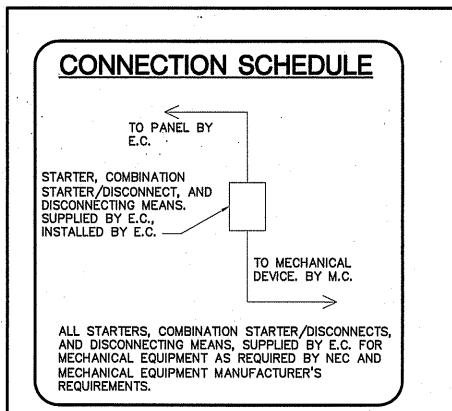
- 12 CRANKCASE HEATER

LOW TEMP = 70 DEG F DB INDOOR EAT & 17 DEG F DB/15 DEG F WB ENTERING OUTDOOR UNIT

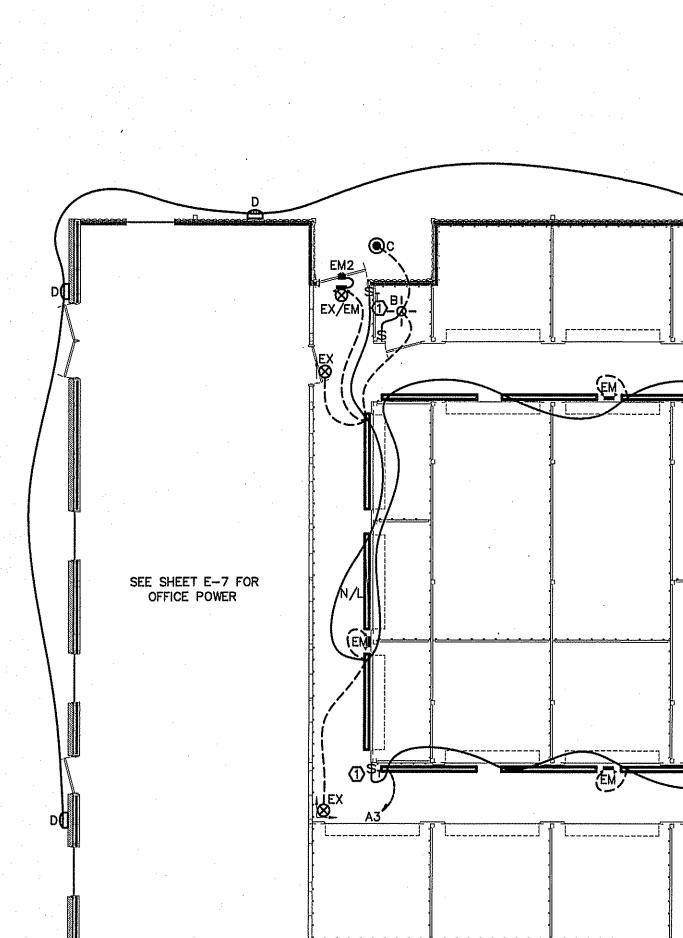


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LIST EQUIPMENT EFFICIENCIES



MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGCLX48
B	KEYLESS FIXTURE WITH WIREGUARD AND LED LAMP	_	-	LED A19		13	WITH WIRE GUARD
С	3" LED RECESSED DOWNLIGHT		AX3 D G4 12LM 35K 80CRI 50D GZ1 120 ICAT 3DP CS SF WET	LED		11.0	TO BE ON PHOTOCELL
D	LED WALL PACKS	LITHONIÀ	TWR1 LED 3 50K MVOLT ON TIMER	18 LEDS	LED	58.4	W/CUTOFF
ЕМ	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				



		LIGHTING	DATA	FOR	N.C.	ENERGY	CC
--	--	----------	------	-----	------	--------	----

	· · · · ·			•	-
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
STORAGE	9,600	0.63	11,520	2,440	9,080
OFFICE	1,200	1.3	1,560	552	1,008
TOTAL	-10,800		13,080	2,992	10,088

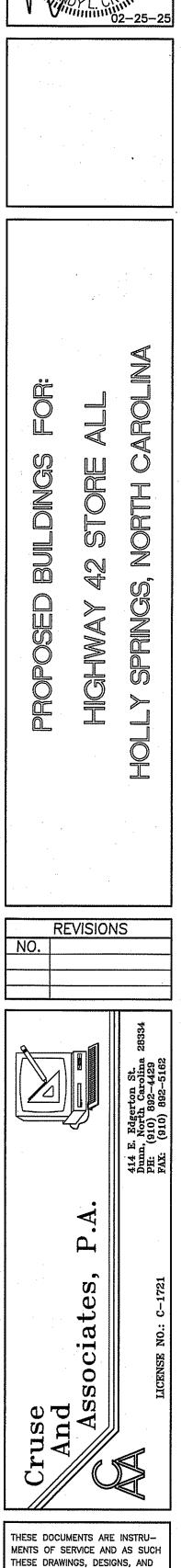
EXØ((EM) EM N/L N/L SEX

ELECTRICAL LIGHTING PLAN BUILDING "1" SCALE: 1/8" = 1'-0"

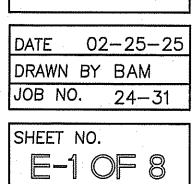
CODE (BUILDING "1")

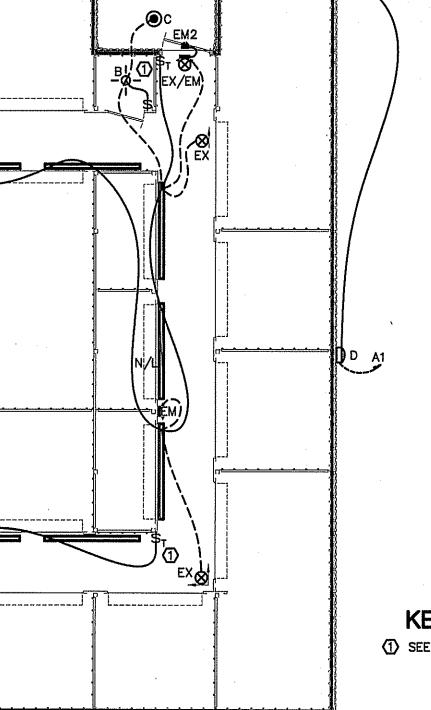
NOTE: 1. VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION. 2. COORDINATE LOCATION OF 8' STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE. 3. ALL LIGHT FIXTURES IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE. ALL CORRIDOR LIGHTS TO BE SWITCHED BY MOTION SENSORS OR TIMERS LOCATED AS SHOWN. PROVIDE 30 MINUTE RUN TIME SETTING AND NO HOLD CAPABILITY. VERIFY WHICH TYPE OF DEVICE AND IT'S CAPABILITIES WITH THE OWNER BEFORE ORDERING EQUIPMENT.

ELE	CTRICAL LEGEND
MARK	DESCRIPTION
	QUAD RECEPTACLE
Ф	DUPLEX RECEPTACLE
	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
ф	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING
	FLUORESCENT FIXTURE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCHED BRANCH CIRCUIT
x - 2	UNSWITCHED BRANCH CIRCUIT
r P	120/208 VOLT CIRCUIT
\$_M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
8	'EXIT' LIGHT FIXTURE, TYPE 'EX'
ţ	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
ርኩ	CEILING MOUNTED FUSED DISCONNECT SWITCH
4	TELEPHONE
J	JUNCTION BOX
\$ ₇	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
\$₀	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
	280V RECEPTACLE
Ľ	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

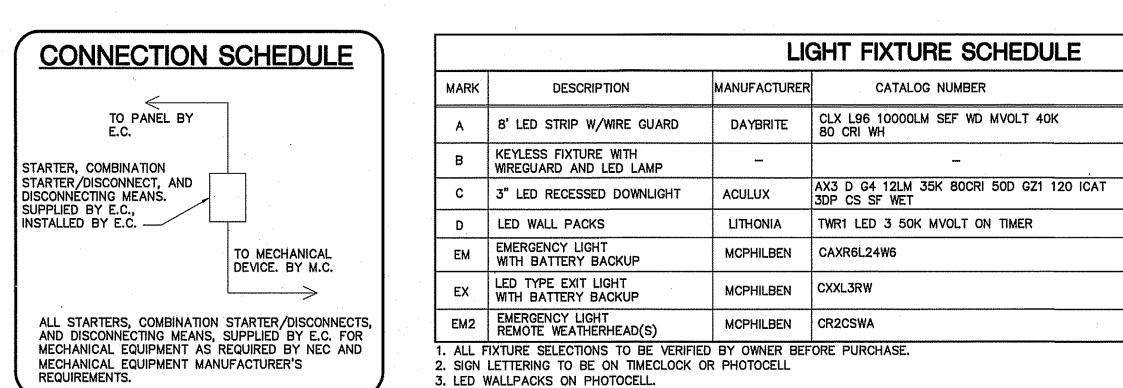


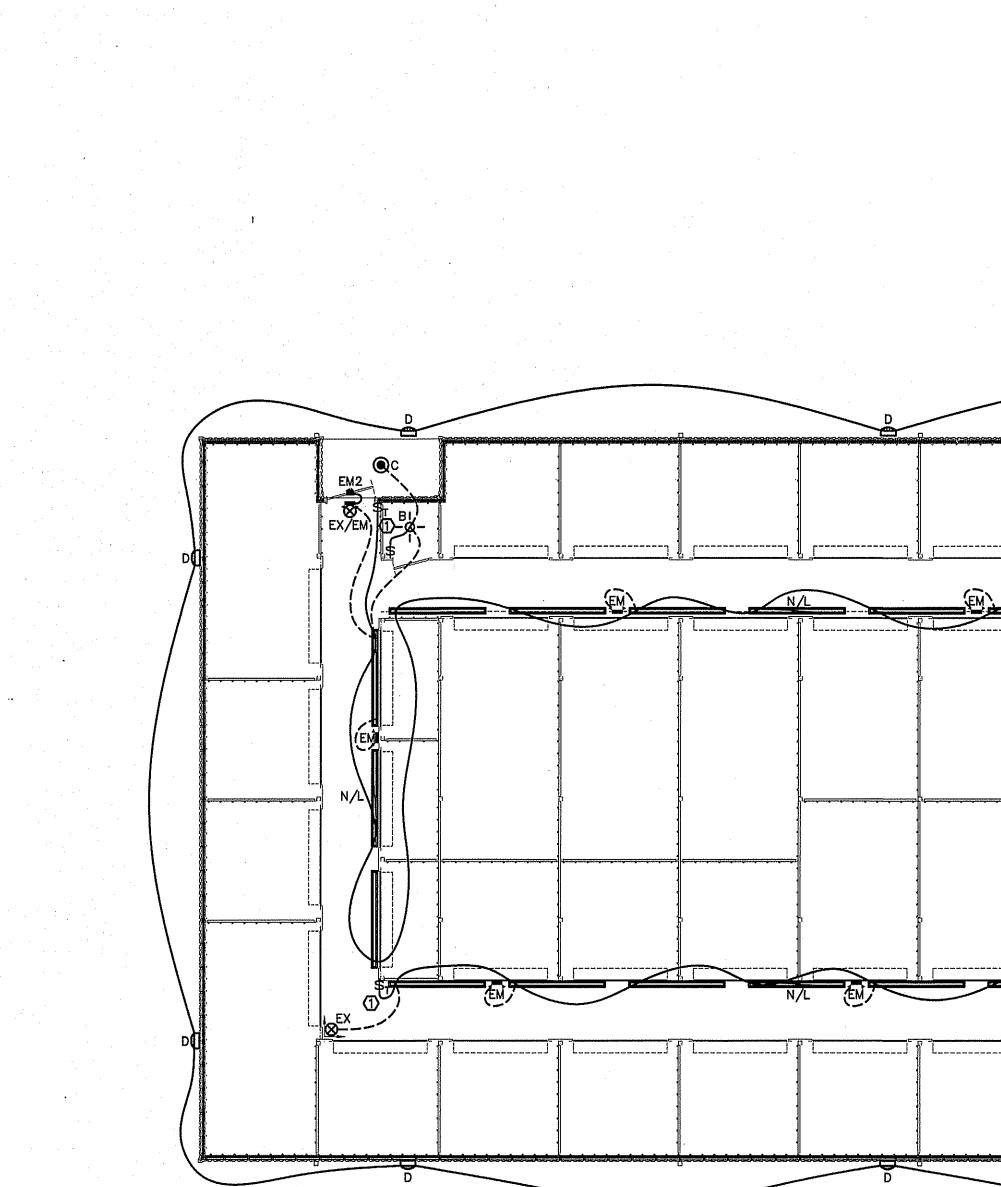
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**KEY NOTE:** (1) SEE NOTE 4.





LEGEND 3 HOUR RATED WALL U419 THE REAL PLACE IN THE PLACE PLACE

LAMPS	BALLASTS	WATTAGE	REMARKS
LED		71.0	WITH (2) 48" WIRE GUARDS WGCLX48
LED A19	-	· 13	WTH WRE GUARD
LED		11.0	TO BE ON PHOTOCELL
18 LEDS	LED	58.4	W/CUTOFF

LIGH	TING DAT	A FOR N.C. E	NERGY CO
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED
STORAGE	23,700	1.2	28,440
TOTAL	23,700	*	28,440

NOTE: 1. VERIFY LOCA WITH OWNER 2. COORDINATE CORRIDOR V 3. ALL LIGHT FI ON THE WAL 4. ALL CORRIDO 4. ALL CORRIDOR LIGHTS TO BE SWITCHED BY MOTION SENSORS OR TIMERS LOCATED AS SHOWN. PROVIDE 30 MINUTE RUN TIME SETTING AND NO HOLD CAPABILITY. VERIFY WHICH TYPE OF DEVICE AND IT'S CAPABILITIES WITH THE OWNER BEFORE ORDERING EQUIPMENT.

EM

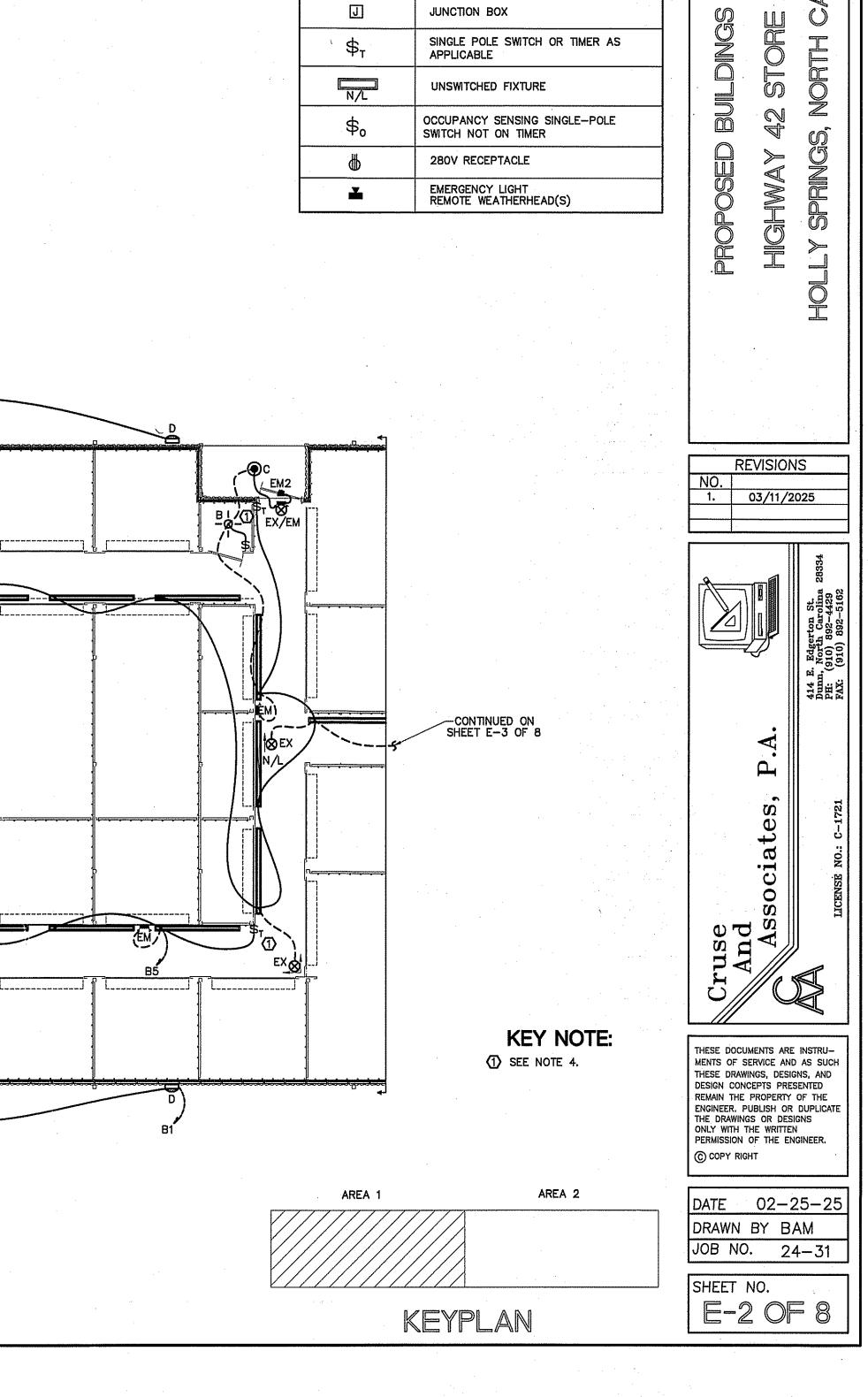
N/L

ELECTRICAL	LIGHTING	PLAN	BUILDING	"2"
SCALE: $1/8" = 1'-0"$				1

**⊗**ex

-⊗EX

(EM) ----



ATION OF LIGHTS & RECEPTACLES R BEFORE CONSTRUCTION.
E LOCATION OF 8' STRIP LIGHTS IN WITH DUCT WORK WHERE APPLICABLE.
FIXTURES IN CORRIDORS TO BE MOUNTED
NOR LIGHTS TO BE SWITCHED BY NSORS OR TIMERS LOCATED AS ROWDE 30 MINUTE BUINTIME

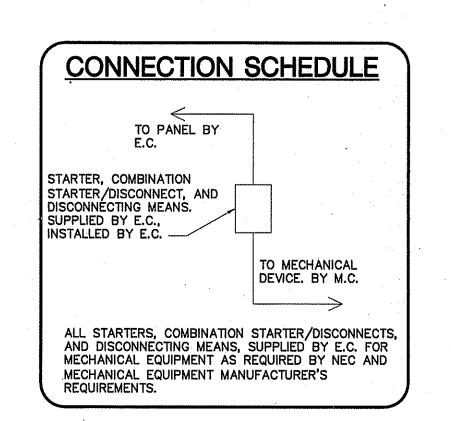
ELI	ECTRICAL LEGEND
MARK	DESCRIPTION
	QUAD RECEPTACLE
ф	DUPLEX RECEPTACLE
	SINGLE POLE SWITCH OR TIMER AS
ф	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING
	FLUORESCENT FIXTURE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCHED BRANCH CIRCUIT
2-2	UNSWITCHED BRANCH CIRCUIT
7-1-	120/208 VOLT CIRCUIT
\$_M	MOTION DETECTING SINGLE-POLE SWITCH
8	'EXIT' LIGHT FIXTURE, TYPE 'EX'
L L	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
[]) ·	CEILING MOUNTED FUSED DISCONNECT SWITCH
\square	TELEPHONE
J	JUNCTION BOX
`\$ _т	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
\$0	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
Ф	280V RECEPTACLE
	EMERGENCY LIGHT

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ALL

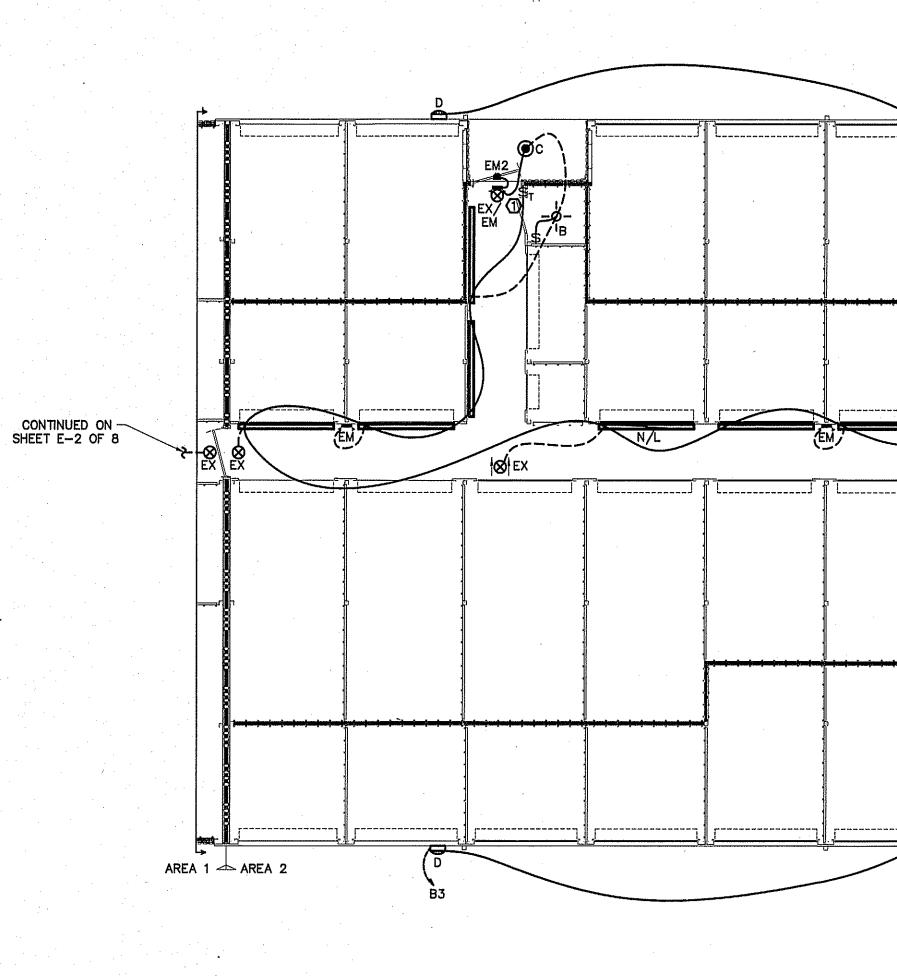


TOTAL WATTS USED TOTAL WATTS LEFT OVER 23,970 4,470 4,470 23,970



LIGHT FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS	
A	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGCLX48	
B	KEYLESS FIXTURE WITH WIREGUARD AND LED LAMP	· 	-	LED A19		13	WITH WIRE GUARD	
С	3" LED RECESSED DOWNLIGHT	ACULUX	AX3 D G4 12LM 35K 80CRI 50D GZ1 120 ICAT 3DP CS SF WET	LED		11.0	TO BE ON PHOTOCELL	
D .	LED WALL PACKS	LITHONIA	TWR1 LED 3 50K MVOLT ON TIMER	18 LEDS	LED	58.4	W/CUTOFF	
EM	EMERGENCY LIGHT WTH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6					
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW					
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA					

ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE.
 SIGN LETTERING TO BE ON TIMECLOCK OR PHOTOCELL
 LED WALLPACKS ON PHOTOCELL.



LEGEND 3 HOUR RATED WALL U419

LIGHTING DATA FOR N.C. ENERGY CODE (BUILDING "2")						
AREA USE	AREA FT2	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER	
STORAGE	23,700	1.2	28,440	4,470	23,970	
TOTAL	23,700		28,440	4,470	23,970	

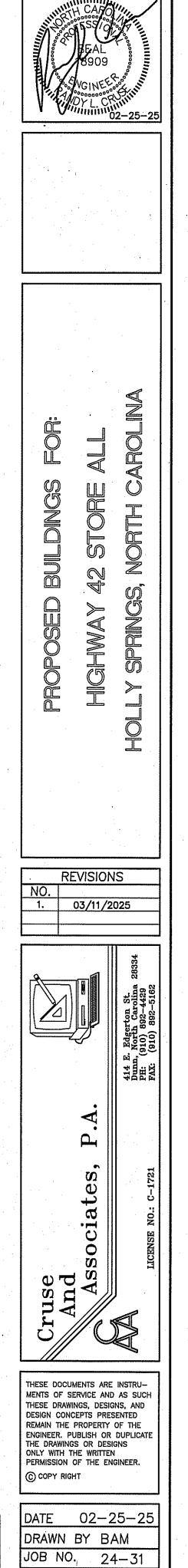
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	· · · ·	4.	ALL MOTI SHOV SETT VERII

ELECTRICAL LIGHTING PLAN BUILDING "2" SCALE: 1/8" = 1'-0"

WEX

NOTE:
VERIFY LOCATION OF LIGHTS & RECEPTACLES WITH OWNER BEFORE CONSTRUCTION.
COORDINATE LOCATION OF 8' STRIP LIGHTS IN CORRIDOR WITH DUCT WORK WHERE APPLICABLE.
ALL LIGHT FIXTURES IN CORRIDORS TO BE MOUNTED ON THE WALLS WHERE APPLICABLE.
ALL CORRIDOR LIGHTS TO BE SWITCHED BY MOTION SENSORS OR TIMERS LOCATED AS SHOWN. PROVIDE 30 MINUTE RUN TIME SETTING AND NO HOLD CAPABILITY. VERIFY WHICH TYPE OF DEVICE AND IT'S CAPABILITIES WITH THE OWNER BEFORE ORDERING EQUIPMENT.

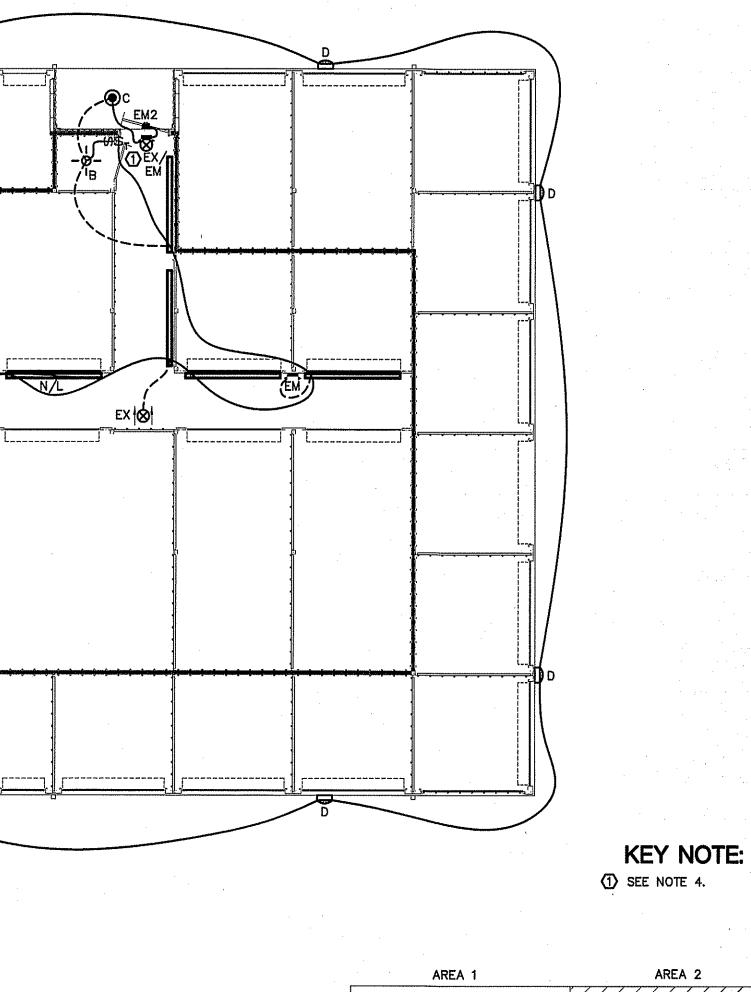
ELE	CTRICAL LEGEND
MARK	DESCRIPTION
	QUAD RECEPTACLE
ф	DUPLEX RECEPTACLE
T	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
\$	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING
	FLUORESCENT FIXTURE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCHED BRANCH CIRCUIT
r ⁻²	UNSWITCHED BRANCH CIRCUIT
r P	120/208 VOLT CIRCUIT
\$_M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
8	'EXIT' LIGHT FIXTURE, TYPE 'EX'
ţ.	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
D	FUSED DISCONNECT SWITCH
[]h.	CEILING MOUNTED FUSED DISCONNECT SWITCH
4	TELEPHONE
J	JUNCTION BOX
\$ _T	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
\$₀	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
₿	280V RECEPTACLE
<b></b>	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

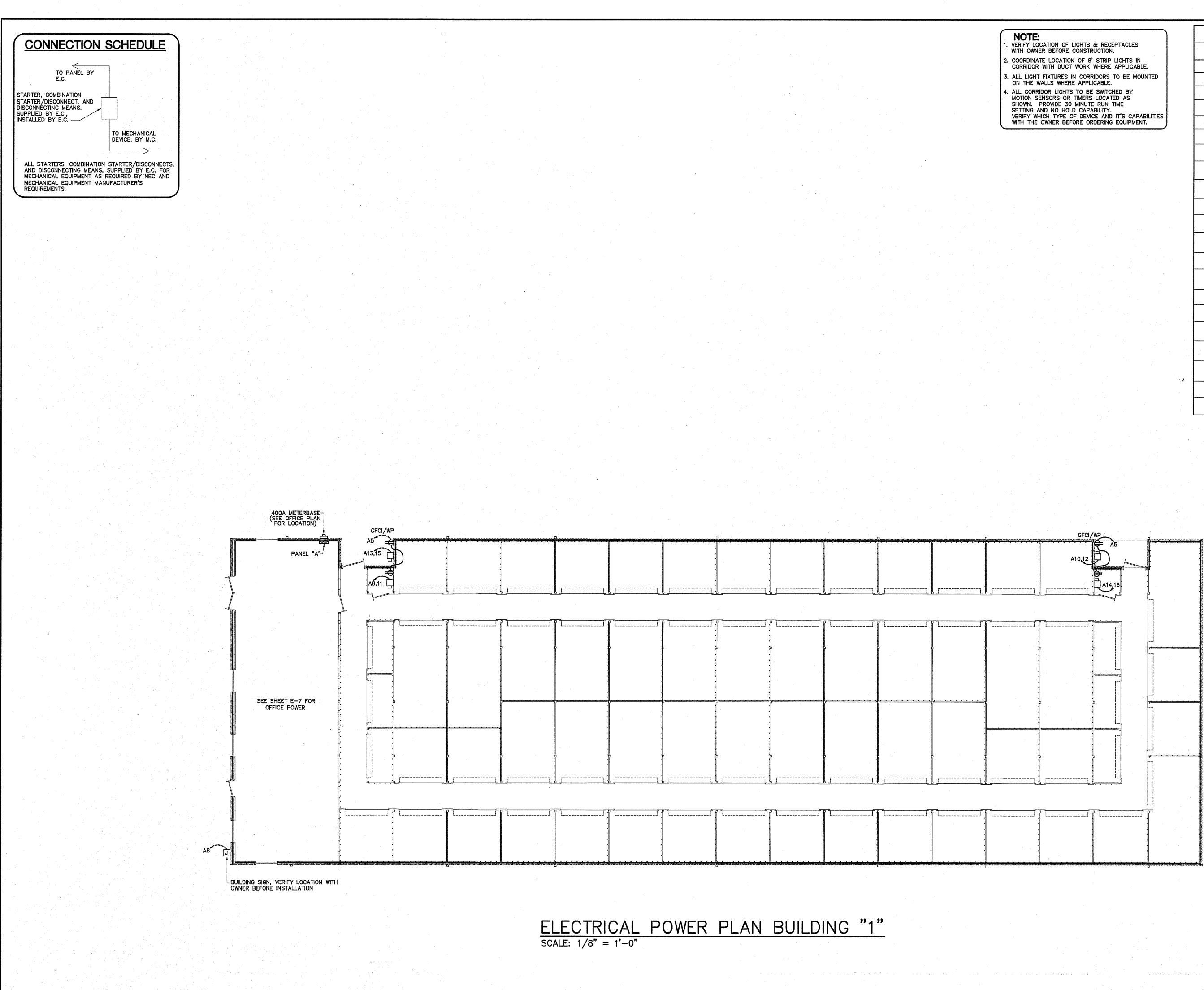


SHEET NO.

E-3 OF 8

KEYPLAN



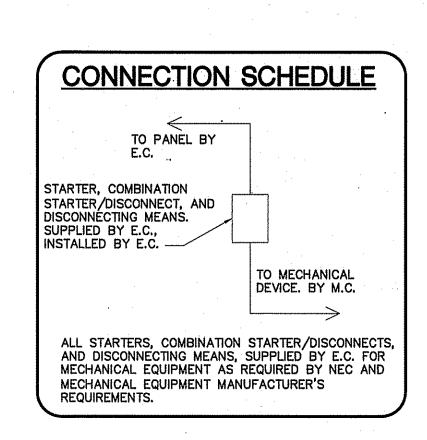


ELECTRICAL LEGEND					
MARK	DESCRIPTION				
#	QUAD RECEPTACLE				
Φ	DUPLEX RECEPTACLE				
Π	SINGLE POLE SWITCH OR TIMER AS APPLICABLE				
ф	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING				
	FLUORESCENT FIXTURE				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCHED BRANCH CIRCUIT				
x ⁻²	UNSWITCHED BRANCH CIRCUIT				
Y-D-	120/208 VOLT CIRCUIT				
\$_M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER				
8	'EXIT' LIGHT FIXTURE, TYPE 'EX'				
¢	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)				
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER				
	FUSED DISCONNECT SWITCH				
[_])	CEILING MOUNTED FUSED DISCONNECT SWITCH				
	TELEPHONE				
J	JUNCTION BOX				
	SINGLE POLE SWITCH OR TIMER AS APPLICABLE				
N/L	UNSWITCHED FIXTURE				
\$₀	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER				
₿	280V RECEPTACLE				
L	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)				

AROLINA Ш ALL STORE BUILDINGS NORTH C 42 Ś PROPOSED SPRING HIGHWAY ≻ **D**H REVISIONS <u>NO.</u> E. Edgerton n. North Car (910) 892-4 (910) 892-4 414 Dum PH: FAX: Y. Ц Cruse And Associates,

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DATE 02-25-25 DRAWN BY BAM JOB NO. 24-31 SHEET NO. E-4 OF 8



- SIGN CIRCUIT. VERIFY LOCATION WITH OWNER BEFORE INSTALLATION

B32 GFCI/WP B12 B17,19 B13,15 -----(r-----_____

3 HOUR RATED WALL U419

- 1

LEGEND

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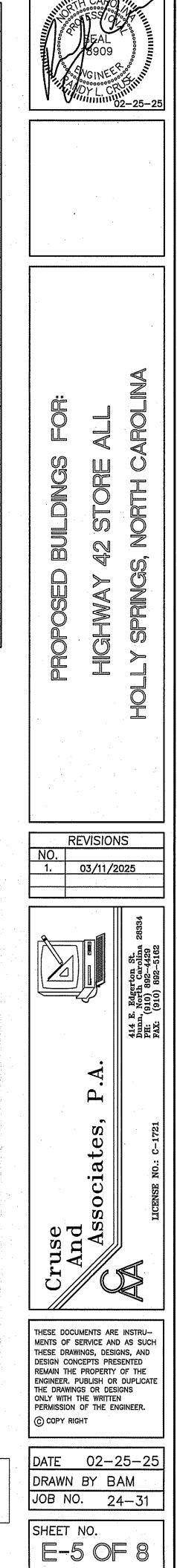
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ELECTRICAL POWER PLAN BUILDING "2" SCALE: 1/8" = 1'-0"

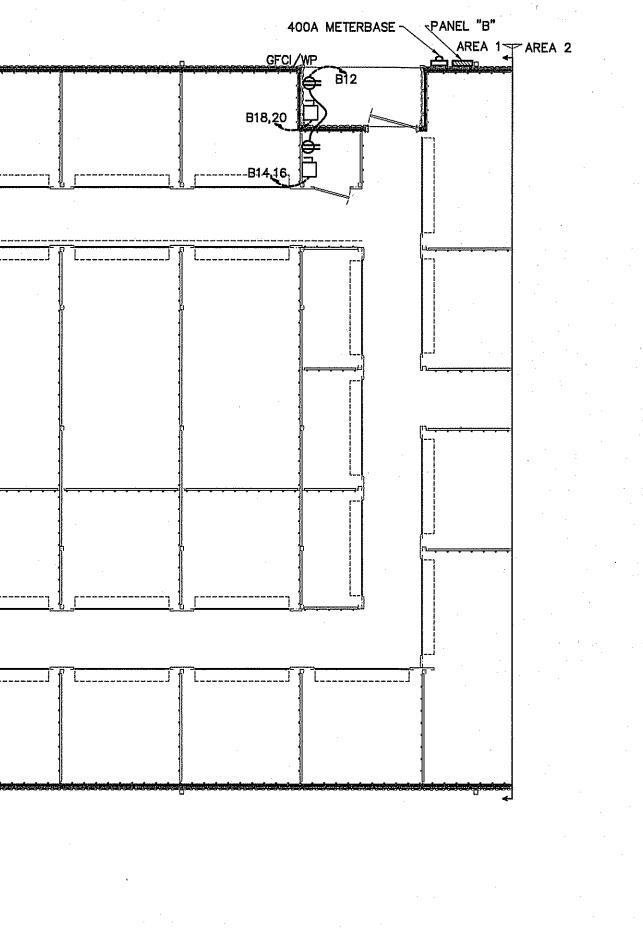
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ELE	CTRICAL LEGEND
MARK	DESCRIPTION
	QUAD RECEPTACLE
Ф	DUPLEX RECEPTACLE
Ī	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
ф	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING
[]	FLUORESCENT FIXTURE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCHED BRANCH CIRCUIT
۲-٦	UNSWITCHED BRANCH CIRCUIT
r-P	120/208 VOLT CIRCUIT
\$_M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊗ _	'EXIT' LIGHT FIXTURE, TYPE 'EX'
Ļ	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
[] <u>)</u>	CEILING MOUNTED FUSED DISCONNECT SWITCH
4	TELEPHONE
J	JUNCTION BOX
T	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
\$₀	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
\$	280V RECEPTACLE
· <b>1</b>	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

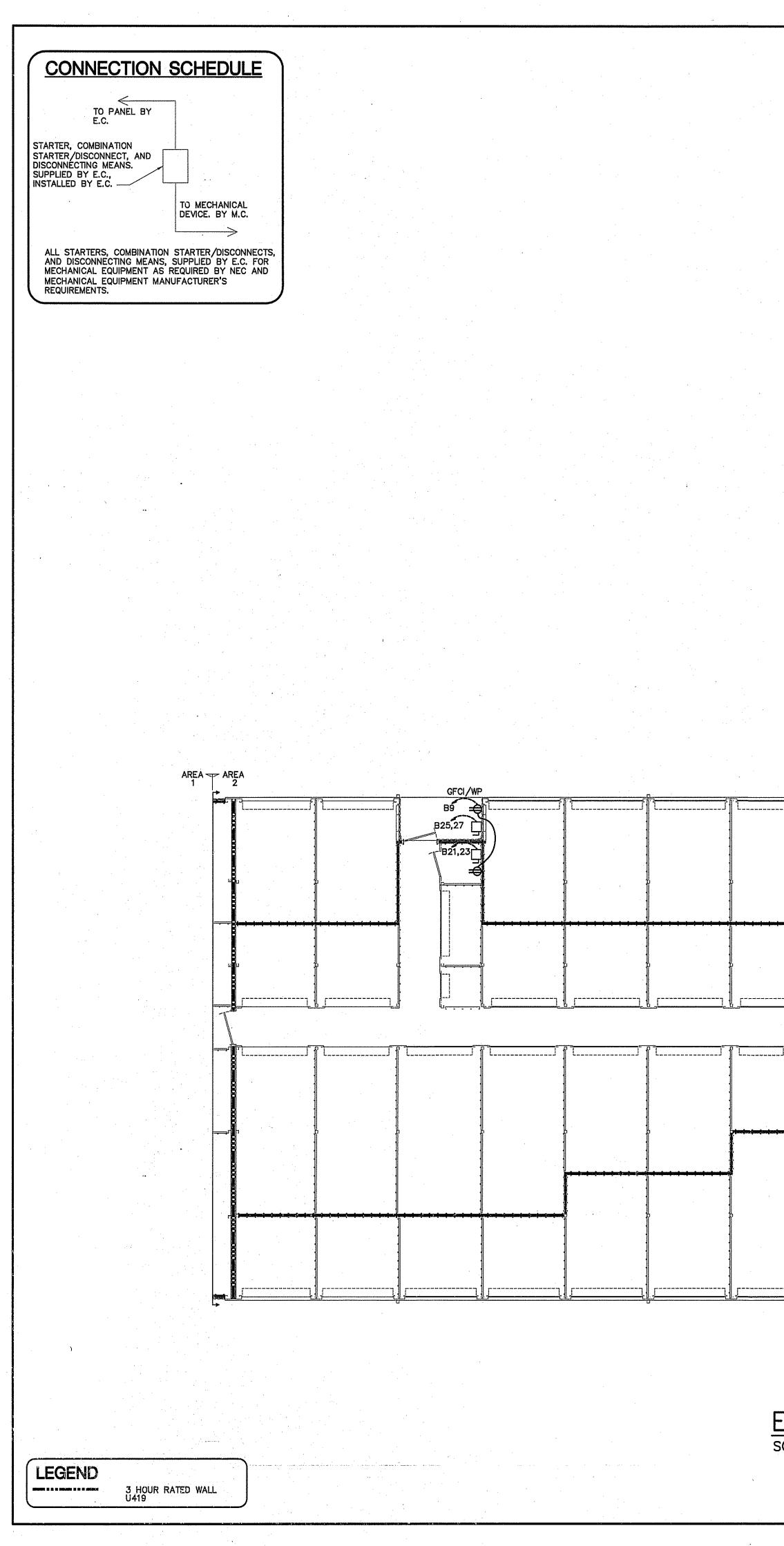


AREA 2

KEYPLAN

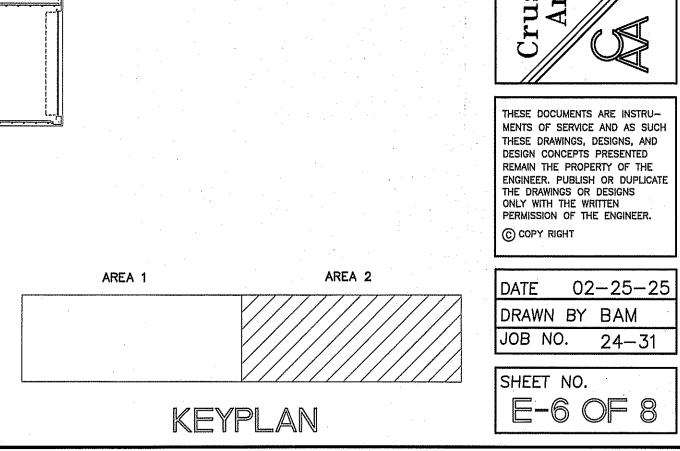


AREA 1



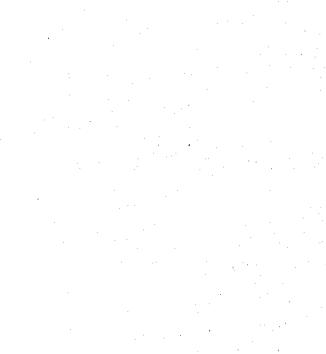
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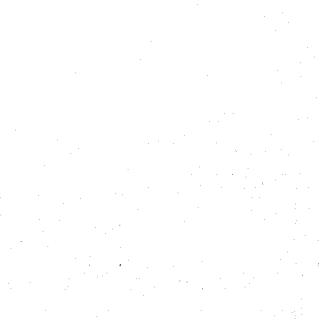
# ELECTRICAL POWER PLAN BUILDING "2" SCALE: 1/8" = 1'-0"



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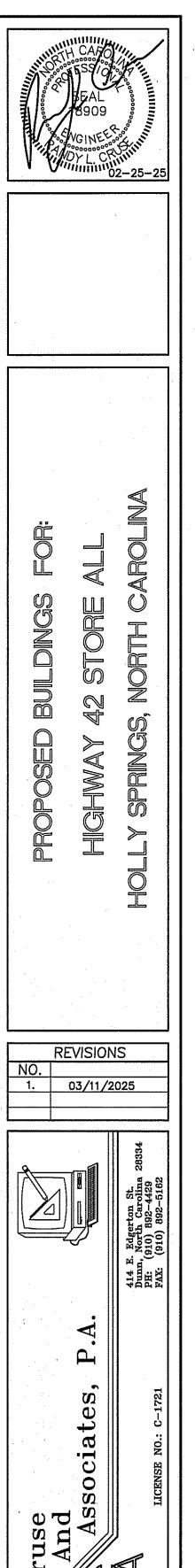
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	MARK	DESCRIPTION
	∯	QUAD RECEPTACLE
	Φ	DUPLEX RECEPTACLE
	Π	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
	Ф	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING
		FLUORESCENT FIXTURE
	J.	SWITCHED BRANCH CIRCUIT
	2 7	UNSWITCHED BRANCH CIRCUIT
	2-A	120/208 VOLT CIRCUIT
	\$_M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
	8	'EXIT' LIGHT FIXTURE, TYPE 'EX'
	¢	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
	\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
		FUSED DISCONNECT SWITCH
	[]]	CEILING MOUNTED FUSED DISCONNECT SWITCH
•	$\mathbf{\nabla}$	TELEPHONE
	J	JUNCTION BOX
	Ī	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
	N/L	UNSWITCHED FIXTURE
	\$ ₀	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
	₿	280V RECEPTACLE
	<b></b>	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)

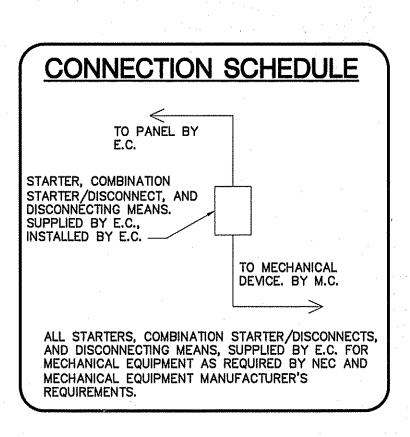
ELECTRICAL LEGEND



LIGHT FIXTURE SCHEDULE											
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS				
Α	8' LED STRIP W/WIRE GUARD	DAYBRITE	CLX L96 10000LM SEF WD MVOLT 40K 80 CRI WH	LED		71.0	WITH (2) 48" WIRE GUARDS WGCLX48				
B	KEYLESS FIXTURE WITH WIREGUARD AND LED LAMP			LED A19	-	13	WITH WIRE GUARD				
С	3" LED RECESSED DOWNLIGHT	ACULUX	AX3 D G4 12LM 35K 80CRI 50D GZ1 120 ICAT 3DP CS SF WET	LED		11.0	TO BE ON PHOTOCELL				
D	LED WALL PACKS	LITHONIA	TWR1 LED 3 50K MVOLT ON TIMER	18 LEDS	LED	58.4	W/CUTOFF				
F	SURFACE MOUNTED 2X4 LED FLAT PANEL	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM	LED		42.0	INCLUDE WSX D DIMMING OCCUPANCY WALL				
G	SURFACE MOUNTED 2X4 LED FLAT PANEL	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM	LED		32.0	INCLUDE WSX D DIMMING OCCUPANCY WALL				
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6								
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW								
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA				· ·				

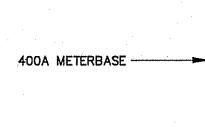
2. SIGN LETTERING TO BE ON TIMECLOCK OR PHOTOCELL 3. LED WALLPACKS ON PHOTOCELL.

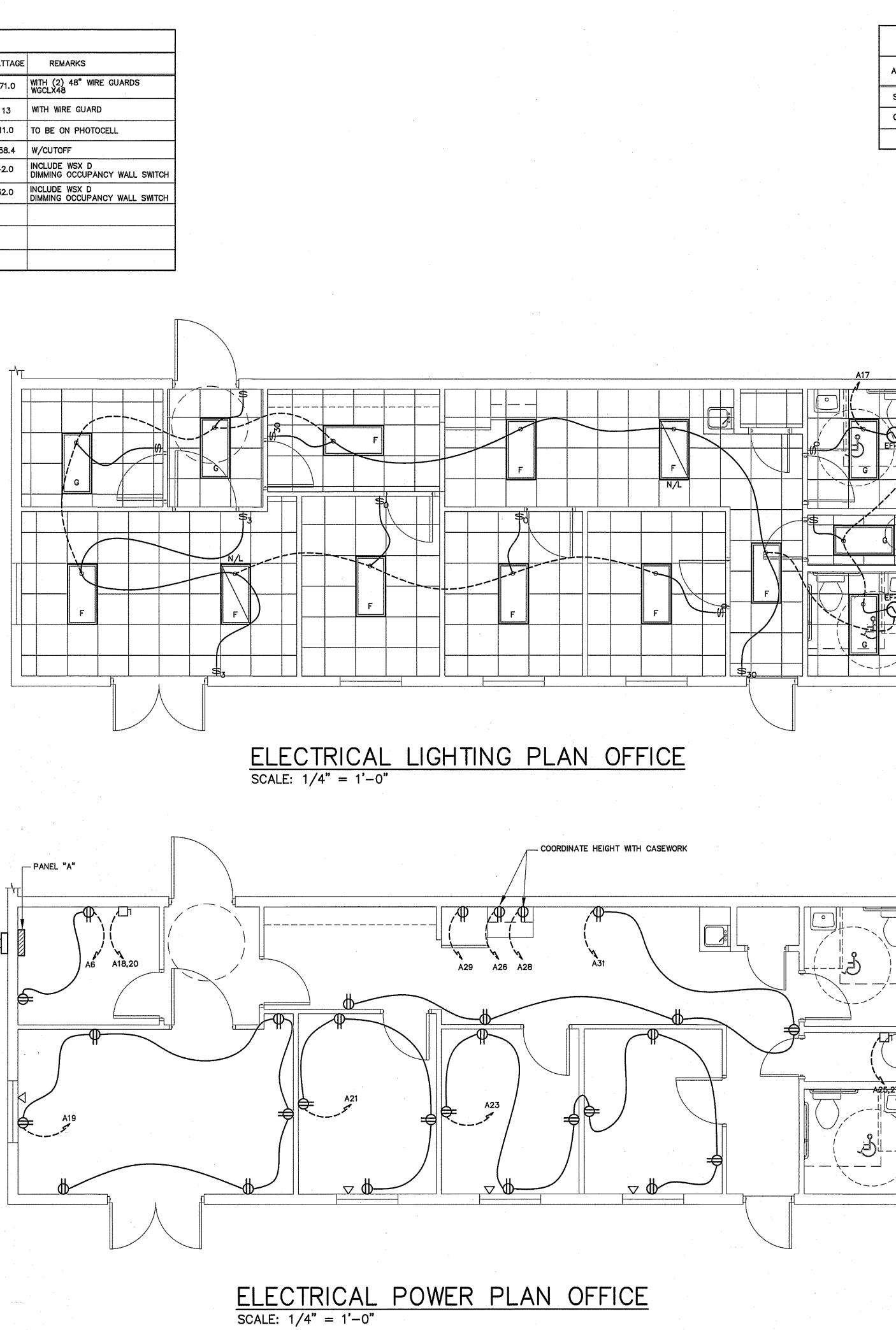
· · · ·	
ELE	CTRICAL LEGEND
MARK	DESCRIPTION
	QUAD RECEPTACLE
ф	DUPLEX RECEPTACLE
Ī	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
ф.	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING
	FLUORESCENT FIXTURE
~~~	SWITCHED BRANCH CIRCUIT
r ⁻²	UNSWITCHED BRANCH CIRCUIT
	120/208 VOLT CIRCUIT
\$_M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
× ×	'EXIT' LIGHT FIXTURE, TYPE 'EX'
Ļ	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
[]	CEILING MOUNTED FUSED DISCONNECT SWITCH
4	TELEPHONE/DATA
J	JUNCTION BOX
Ī	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
\$.	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
₿	280V RECEPTACLE
L	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)



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F12 ALLOWED ALLOWED USED LEFT OVER STORAGE 9,600 0.63 11,520 2,440 9,080			· · · · · · · · · · · · · · · · · · ·				- -	HILL CARO	Ning /
	LIGH	TING DATA	A FOR N.C. EI	NERGY CO	de (Buildin	IG "1")			
	AREA USE	AREA FT 2	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS	TOTAL WATTS LEFT OVER	-	8909	11111111
	STORAGE	9,600					-	A Processo	NUTITI'
	OFFICE	1,200	1.3	1,560	538	1,022)2-25-25
	TOTAL	10,800	· .	13,080	2,978	10,102			
					NATE LOCATION OF S	ECURITY. CATV.			
				INTERNE WITH OV	T, PHONE, OR OTHER	R SYSTEMS OUTLETS NING CONSTRUCTION.		· · · · · · · · · · · · · · · · · · ·	
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ELECTRICAL NOTES (GENERAL)

1. THE ELECTRICAL INSTALLATION, EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL, AS A MINIMUM, BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), ALL APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES, LAWS, AND ORDINANCES, AND RULINGS OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. ALL FEES, PERMITS, ETC., ASSOCIATED WITH THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

2. THE DRAWINGS GENERALLY INDICATE THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, BOXES, FITTINGS, AND SPECIALTIES WHICH MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SUCH ITEMS REQUIRED TO COMPLETE THE INSTALLATION ACCORDING TO INDUSTRY ACCEPTED PRACTICES SHALL BE INCLUDED IN THE BID.

3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED AND LABELED BY UNDERWRITERS LABORATORIES, INC.

4. ALL PENETRATIONS OF FIRE WALLS SHALL BE SEALED WITH APPROVED SEALING MATERIALS TO MAINTAIN THE FIRE RATING OF THE WALLS. 5. THE CONTRACTOR SHALL VERIFY WIRE AND FUSE/CIRCUIT BREAKER SIZING FOR ALL MECHANICAL EQUIPMENT PRIOR TO PURCHASING MATERIALS AND INSTALLING BRANCH CIRCUITS.

6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS, APPARENT INTERFERENCES OR CONFLICTS SHALL BE REPORTED TO THE PRIME CONTRACTOR AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

7. THE ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUITS TO THE MAIN LINE TERMINALS OF EQUIPMENT FURNISHED BY OTHER CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY NECESSARY SWITCHES, DISCONNECTS, OR OVERCURRENT PROTECTION AHEAD OF SUCH EQUIPMENT.

8. RACEWAYS ARE SHOWN SCHEMATICALLY AND MAY BE REROUTED IN THE FIELD. THEY SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES. THEY SHALL BE RUN CONCEALED WITHIN WALLS OR BUILDING STRUCTURES WHEREVER POSSIBLE. 9. ALL RACEWAYS, EQUIPMENT, ETC., ABOVE A SUSPENDED CEILING SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE CEILING SO AS NOT TO

BLOCK ANY TILE OR FIXTURE ACCESS. 10. THE MINIMUM ALLOWABLE SIZE FOR ANY CONDUIT, IMC, OR EMT SHALL BE 1/2" AND MAY BE USED FOR 2#12 WIRE SWITCHLEGS ONLY. A SWITCHLEG SHALL BE DEFINED AS THE RUN OF CONDUIT FROM THE SWITCH OUTLET BOX TO THE FIRST OUTLET BEING SWITCHED.

11. FULL WEIGHT GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN THE FOLLOWING AREAS:

A. ON THE EXTERIOR OF THE BUILDING OR ROOF,

B. VERTICAL DROPS WHERE THE CONDUIT CANNOT BE ANCHORED TO WALLS OR OTHER SUPPORT STRUCTURES,

18. BREAKERS SUPPLYING HVAC OR REFRIGERATION EQUIPMENT SHALL BE HACR TYPE.

C. WHERE SUBJECT TO MECHANICAL DAMAGE.

12. ALL WIRE AND CABLE SHALL BE COPPER AND HAVE 600 VOLT THHN-THWN INSULATION. ALUMINUM WIRING SHALL NOT BE PERMITTED.

13. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR CONTROL WIRING, WHICH MAY BE #14 AWG. CONTROL WIRING SHALL USE STRANDED CONDUCTORS UNLESS OTHERWISE NOTED.

14. ALL METAL RACEWAY SYSTEMS SHALL BE MADE ELECTRICALLY CONTINUOUS. THE RACEWAY SYSTEM SHALL NOT BE THE SOLE GROUNDING METHOD. AN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED FOR ALL FEEDERS AND BRANCH CIRCUITS. AT RECEPTACLES, A GREEN GROUND CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL OF THE RECEPTACLE.

15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE FUSE AND DISCONNECT SWITCH SIZES WITH THE MECHANICAL EQUIPMENT SUPPLIER PRIOR TO PURCHASE AND INSTALLATION OF BRANCH CIRCUIT EQUIPMENT. IF EQUIPMENT SIZING CHANGES FROM DESIGN SIZES, CIRCUITS SHALL BE RESIZED ACCORDINGLY.

16. LIGHT FIXTURES FOR INSTALLATION IN A SUSPENDED CEILING SHALL BE SECURELY FASTENED TO THE CEILING SUSPENSION SYSTEM IN A MANNER TO PREVENT FIXTURES FROM FALLING. IN ADDITION, 16 GAGE WIRE HANGERS SHALL BE FASTENED TO THE FOUR CORNERS OF THE FIXTURES.

17. CONNECTIONS TO FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT TO ALLOW THE FIXTURE TO BE LIFTED OUT OF THE GRID AND MOVED TO AN ADJACENT GRID LOCATION.

19. 3/4" CONDUIT IS MINIMUM ALLOWABLE SIZE EXCEPT AS INDICATED IN #10. CONDUIT FILL NOT TO EXCEED 40% AS PERMITTED BY THE

20. ALL CONDUCTORS TO BE INSTALLED IN CONDUIT (EXCEPT WHERE ROMEX IS INSTALLED). EMT FITTINGS TO BE COMPRESSION TYPE, INSULATED THROAT.

21. NOT USED

NATIONAL ELECTRIC CODE.

22. DATA, SECURITY, THEATRICAL, AND VIDEO SYSTEMS TO BE PROVIDED BY OWNER. ROUGH-IN OF OUTLETS AND CONDUIT WILL BE BY CONTRACTOR AS SHOWN ON DRAWINGS. 23. NOT USED

24. NO. 10 CU AWG CONDUCTORS SHALL BE USED FOR 20 AMP BRANCH CIRCUIT HOMERUNS EXCEEDING 50 FT. TO THE JUNCTION POINT. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 10 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 100 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 8 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 200 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WRING SHALL BE NO. 6 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 400 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT SHALL BE NOT EXCEED 500' FEET IN TOTAL LENGTH. (UNLESS MARKED OTHERWISE)

25. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. SPLICES WILL NOT BE MADE EXCEPT WITHIN ACCESSIBLE OUTLET OR JUNCTION BOXES, TROUGHS, OR GUTTERS. 26. MAKE CONDUCTOR LENGTHS FOR PARALLEL CIRCUITS EQUAL

27. INSTALL TELEPHONE OUTLETS WITH 3/4" EMPTY CONDUIT AND PULL CORD. STUB OUT ABOVE CEILING. PHONE SYSTEM INSTALLED BY OWNER.

28. ALL CONDUIT WITHOUT CONDUCTORS SHALL HAVE NYLON PULLCORDS INSTALLED. 29. THE CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION, AND REVIEW

ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ELECTRIC UTILITY CONNECTION FEES AND LINE EXTENSION FEES.

31. ELECTRICAL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION WHICH DEVELOPS OBJECTIONABLE NOISES SHALL BE MADE FROM THE CONDUIT SYSTEM WITH SHORT LENGTHS OF FLEXIBLE "LIQUID-TITE" CONDUIT. 32. ALL WRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75" C MINIMUM.

33. ELECTRICAL CONTRACTOR TO MAINTAIN 2' OF SEPARATION ON RECEPTACLES ON OPPOSITE SIDES OF ANY FIRE RATED WALL PER 2021 N.E.C. 300.21.

34. WIRING TO DISCONNECT SWITCH AND DISCONNECT SWITCH SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. WIRING FROM THE DISCONNECT TO THE EQUIPMENT SHALL BE BY THE MECHANICAL CONTRACTOR.

	OVOTEM A	
METHOD OF	COMPLIAN	CE:

506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

	METHOD OF COMPLIANCE:	BUILDING 1
	ENERGY CODE:PRESCRIPTIVEIXIPERFORMANCEIIIIASHRAE 90.1:PRESCRIPTIVEPERFORMANCEIIIII	ELECTRICAL LOAD CALCULATIONS 10,800 SQUARE FEET
	REFER TO DRAWINGS FOR RISER DIAGRAM AND PANEL SCHEDULES	NONCONTINUOUS LOADS:
	LIGHTING SCHEDULE LAMP TYPE REQUIRED IN FIXTURE: SEE SCHEDULE NUMBER OF LAMPS IN FIXTURE:	30 RECEPTACLES @ 180 VA EA. 1ST 10000 REMAINDER @ 50% TOTAL
	BALLASTS TYPE USED IN FIXTURE:	CONTINUOUS LOADS:
	NUMBER OF BALLASTS IN FIXTURE: TOTAL WATTAGE PER FIXTURE:	GENERAL LIGHTING LOAD VA/SQ. FT. 9600 SQ. FT. 1.2 11520 x 1.25
	TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED:	GENERAL LIGHTING LOAD VA/SQ. FT. 1200 SQ. FT. 1.3 1560 x 1.25
	ADDITIONAL PRESCRIPTIVE COMPLIANCE	1000 X 1120
	506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT	AIR HANDLER UNIT
	506.2.2 REDUCED LIGHTING POWER DENSITY	HEAT PUMPS
,	506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS	EQUIPMENT:
	506.2.4 HIGHER EFFICENCY SERVICE WATER HEATING	25% OF LARGEST MOTOR GRAND TOTAL
	506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY	

		BUILDING "1"													
		PANEL: 'A' SCHEDULE: MANUFACTURER: SQ, D. NO. OF SPACES 4 VOLTS: 120/240 AMPS: 400 TYPE: 'NQOD' MOUNTING: SURFACE ENCLOSURE: NEMA 1 Ø:1 SHORT CIRCUIT RATING: 22,000 MAIN: MLO: TOP FEED: BOTTOM FEED: COPPER BUS: GROUND BAR KIT: NEUTRAL BAR KIT												NOTE: VERIFY AIC RATING & LUG SPACE WITH UTILITY COMPANY BEFORE ORDERING PANELS.	
L1	L2	CIRCUIT	POLES	TRIP	ASSIGNMENT	-	ASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2		
3.4	\geq	1	1	20	WALLPACKS	0		LEFT FRONT CORRIDOR LTS.	20	1	2	6.1	$\geq \leq$		
\geq	8.3	3	1	20	REAR CORRIDOR LIGHTS		0	RIGHT FRONT CORRIDOR LTS.	20	1	4	\geq	6.1		
3.0	\geq	5	1	20	HVAC UNITS #2 CONV. RECS	0		HVAC #1/MECH. RM. RECS.	20	1	6	4.5	$\geq \leq$		
\geq	X	7	1	20	SPARE		0	BUILDING SIGN	20	1	8	\ge	5.0		
32.0	\geq	9	2	50	AHU-2	0		HP-3	40	2	10	21.3	$\geq \leq$		
\geq	32.0	11					0				12	\geq	21.3		
21.3	\geq	13	2	40	HP-2	0		AHU-3	50	2	14	32.0	$\geq \leq$		
\geq	21.3	15			·		0				16	\ge	32.0		
5.8	\geq	17	1	20	OFFICE LIGHTING	0	<u> </u>	AHU-1	45	2	18	32.0	$\geq \leq$	f i i i	
\ge	9.0	19	1	20	RECEPTIONIST		0				20	\geq	32.0		
6.0	\geq	21	1	20	OFFICE 1 RECEPTACLES	0		HP-1	30	2	22	14.8	$\geq \leq$		
\geq	12.0	23	1	20	OFFICES 2 & 3 RECEPTS.		0				24	\geq	14.8		
18.8	\geq	25	2	30	WATER HEATER	0		MICROWAVE	20	1	26	12.5	$\geq \leq$		
\geq	18.8	27					0	COFFEE MAKER	20	1	28	\ge	8.0		
6.7	\geq	29	1	20	REFRIGERATOR	0		SPARE	20	1	30	X	$\geq \leq$		
\geq	7.5	31	1	20	BREAK ROOM RECEPTACLES		0	SPARE	20	1	32	\geq	Х		
X	\geq	33	1	20	SPARE	0		SPARE	20	1	34	X	\ge		
\geq	X	35	1	20	SPARE		0	SPARE	20	1	36	\geq	Х		
X	\geq	37	1	20	SPARE	0		SPARE	20	1	38	X	\ge		
\ge	X	39	1	20	SPARE		0	SPARE	20	1	40	\geq	Х		
Х	\triangleright	41	1	20	SPARE	0		GATE OPENER	20	1	42	5.0	>1		

L1 = 225.2 AL2 = 228.1 A

	BUILDING '2'													
		PA	PANEL: _'B' SCHEDULE: MANUFACTURER: SQ. D. NO. OF SPACES 42											
		VOLTS: 120/240 AMPS: 400 TYPE: 'NQOD' MOUNTING: SURFACE												
		ENCLOSURE: NEMA 3R . Ø:1 SHORT CIRCUIT RATING: 22,000												
	MAIN: 23 MLO: D TOP FEED: D BOTTOM FEED: 23 COPPER BUS: 23 GROUND BAR KIT: D NEUTRAL BAR KIT: D													
· · · ·					1	рн	ASE					· .		
	1.0	CIRCUIT	POLES	۵.					٩	POLES	CIRCUIT	1 1 4		
	L2	L N	Ы	TRIP	ASSIGNMENT		2	ASSIGNMENT	TRIP	Ы	RC	L1	L2	
		<u> 0</u>	1	20							ł		$ \rightarrow $	
5.8	5.8	1	1	20	WALLPACKS WALLPACKS	0	4	RIGHT FRONT CORRIDOR LTS.	20	1	2	7.2	6.7	
10.1	5.0	5	1	20			0	RIGHT FRONT CEN. CORR. LTS	20			$\mid \geq$	<u>ь./</u>	
	$\frac{1}{x}$	7	1	20	SPARE	. 0	0	LEFT FRONT CEN. CORR. LTS. LEFT FRONT CORRIDOR LTS.	20	1	6 8	6.1	6.7	
6.0	Ŷ	9	1				-	SPARE		1	0 10	Ķ	0./	
1 0.0	$\overrightarrow{\mathbf{x}}$	11	1	20	HVAC UNITS 6/7 CONV. RECS SPARE	<u>, </u>		HVAC UNITS 4/5 CONV RECS	20 20	1	12	×	6.0	
32.0	Yerring and the second	13	2	50	AHU-4	-	<u> </u>	AHU-5	50	2	14	32.0	0.0	
	32.0	15	~			Ť	0				16	52.0	32.0	
26.5	¥	17	2	25	HP-4	0	<u>ا</u>	HP-5	50	2	18	26.5	52.0	
$ \leq $	26.5	19	-			- <u> </u>	0				20		26.5	
32.0		21	2	45	AHU-6	0	-	AHU-7	45	2	22	32.0		
$\overline{}$	32.0	23				-	0				24	$\overline{}$	32.0	
13.6		25	2	25	HP-6	0	<u> </u>	HP-7	25	2	26	13.6	\leq	
\mid	13.6	27				-	0			_	28	\sim	13.6	
X	\searrow	29	1	20	SPARE	0		SPARE	20	1	30	X	\leq	
\bowtie	X	31	1	20	SPARE		0	BUILDING SIGN	20	1	32	\ge	5.0	
X	\mathbf{X}	33	1	20	SPARE	0		SPARE	20	1	34	X	\ge	
\triangleright	X	35	1	20	SPARE		0	SPARE	20	1	36	\ge	X	
X	\searrow	37	1	20	SPARE	0		SPARE	20	1	38	X	\leq	
\triangleright	X	39	1	20	SPARE		0	SPARE	20	_1	40	\succ	X	
X	\succ	41	1	20	SPARE	0		SPARE	20	1	42	Х	\ge	

L1 = 243.4 AL2 = 238.4 A

BUILDING 2	
ELECTRICAL LOAD CALCULATIONS	
23,700 SQUARE FEET	<u>VA</u>
NONCONTINUOUS LOADS:	
8 RECEPTACLES © 180 VA EA. 1ST 10000 REMAINDER © 50% TOTAL	1440 1440 0 1440
CONTINUOUS LOADS:	
GENERAL LIGHTING LOAD VA/SQ. FT. 23,700 SQ. FT. 0.25 5925 x 1.25	5925 7406
AIR HANDLER UNIT	30720
HEAT PUMPS	19248
EQUIPMENT:	600
25% OF LARGEST MOTOR	1092
GRAND TOTAL	60506
252 AMPS @ 120/240V, 1ø, 60HZ	

<u>VA</u>

5400 5400 0

5400

11520

14400

1560

1950

23040

13776

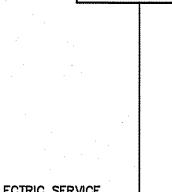
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1092

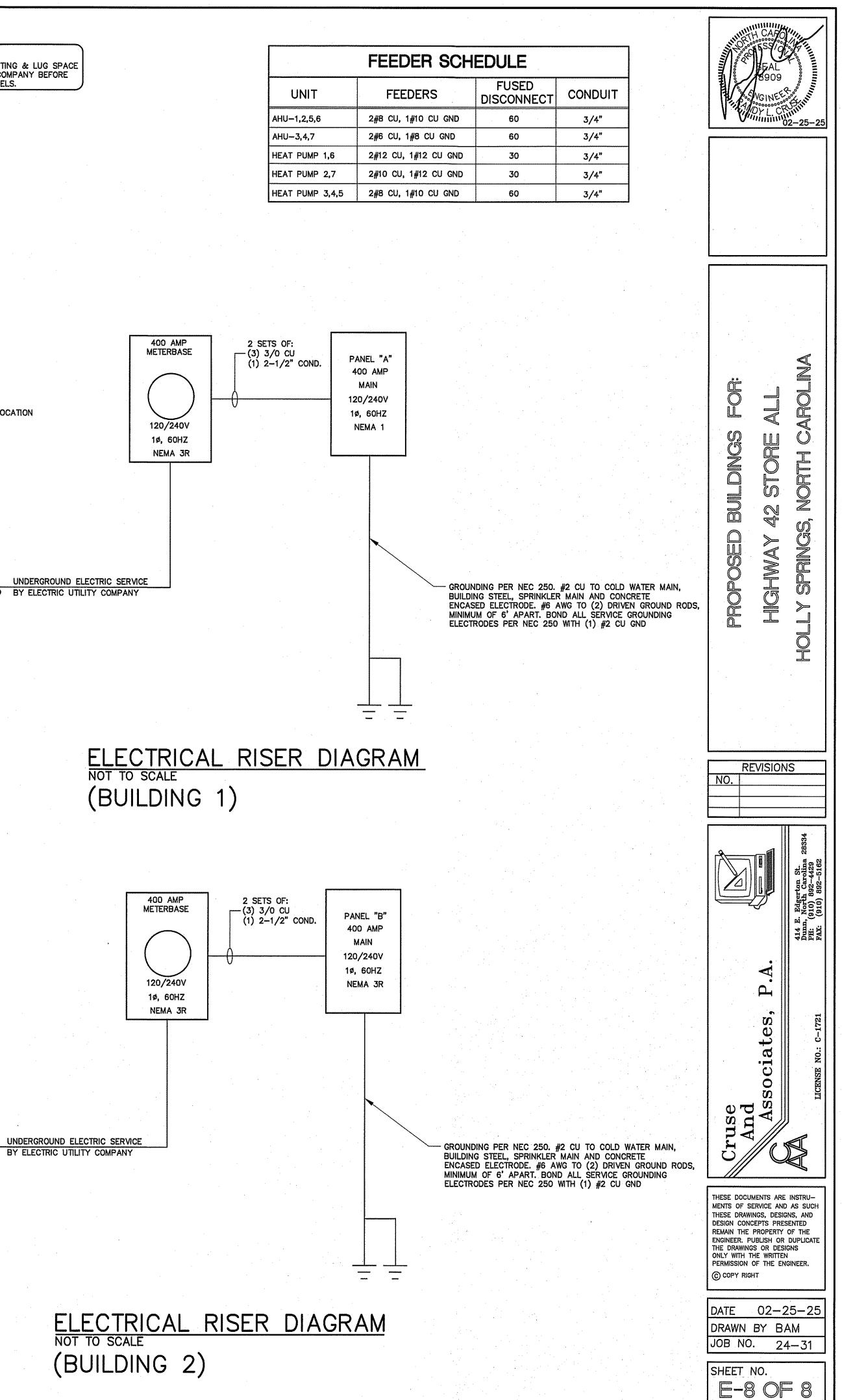
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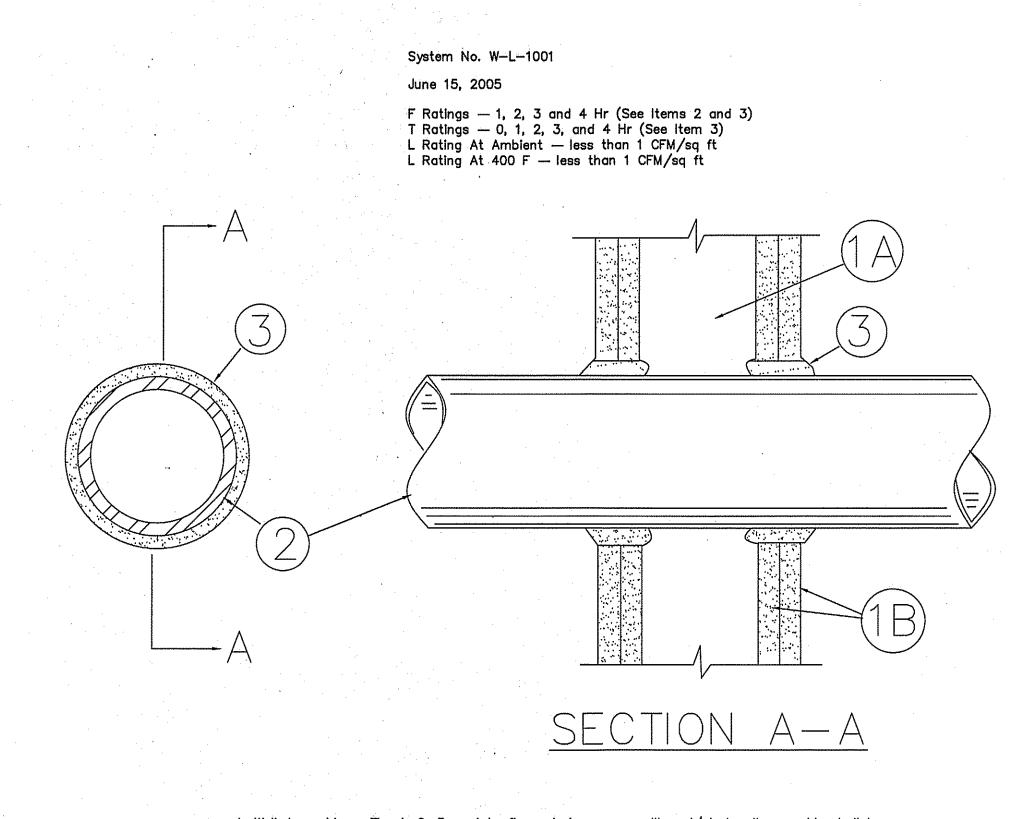
281 AMPS @ 120/240V, 1ø, 60HZ





BY ELECTRIC UTILITY COMPANY





1. Wall Assembly — The 1, 2, 3 or 4 hr fire—rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soll pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. F. Through Penetrating Product* — Flexible Metal Piping The following types of steel flexible

metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. GASTITE. DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG L L C

3. Fill, Void or Cavity Material* — Caulk or Sealant — Min 5/8, 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

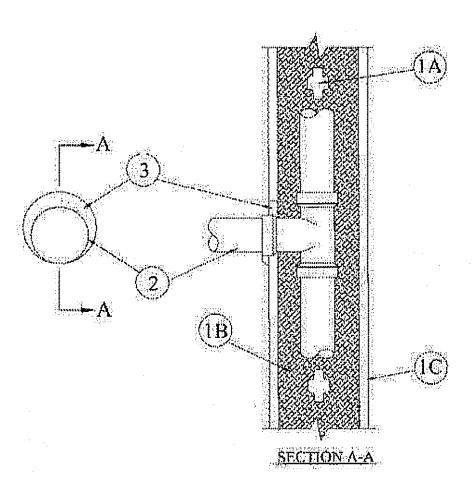
Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4 .
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY ? CP 25WB+ or FB-3000 WT.

*Bearing the UL Classification Mark

System No. W-L-2179 September 17, 2001 F Rating — 1 Hr T Rating — 1 Hr



1. Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. The steel studs to be min 3—5/8 in. wide and spaced max 24 in. OC.

B. Insulation, Glass Fiber* — R—13 fiber glass insulation installed entirely within single stud cavity of nonmetallic pipe (item 2).

C. Gypsum Board* — One layer of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 3—3/4 in.

2. Nonmetallic Pipe — Nonmetallic pipe, installed within stud cavity and connected to nonmetallic tee. Nonmetallic pipe penetrating wall assembly on one side of wall to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1 in. Pipe to be rigidly supported on penetrating side of wall assembly. The following types of and sizes of nonmetallic pipes and tees may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. diam (or smaller) Schedule 40 cellular core or solid core PVC pipe and tee for use in vented (drain, waste or vent) or closed (process and supply) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. diam (or smaller) SDR17 CPVC pipe and tee for use in vented (drain, waste or vent) or closed (process and supply) piping systems.

C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe and tee for use in vented (drain, waste or vent) or closed (process and supply) piping systems.

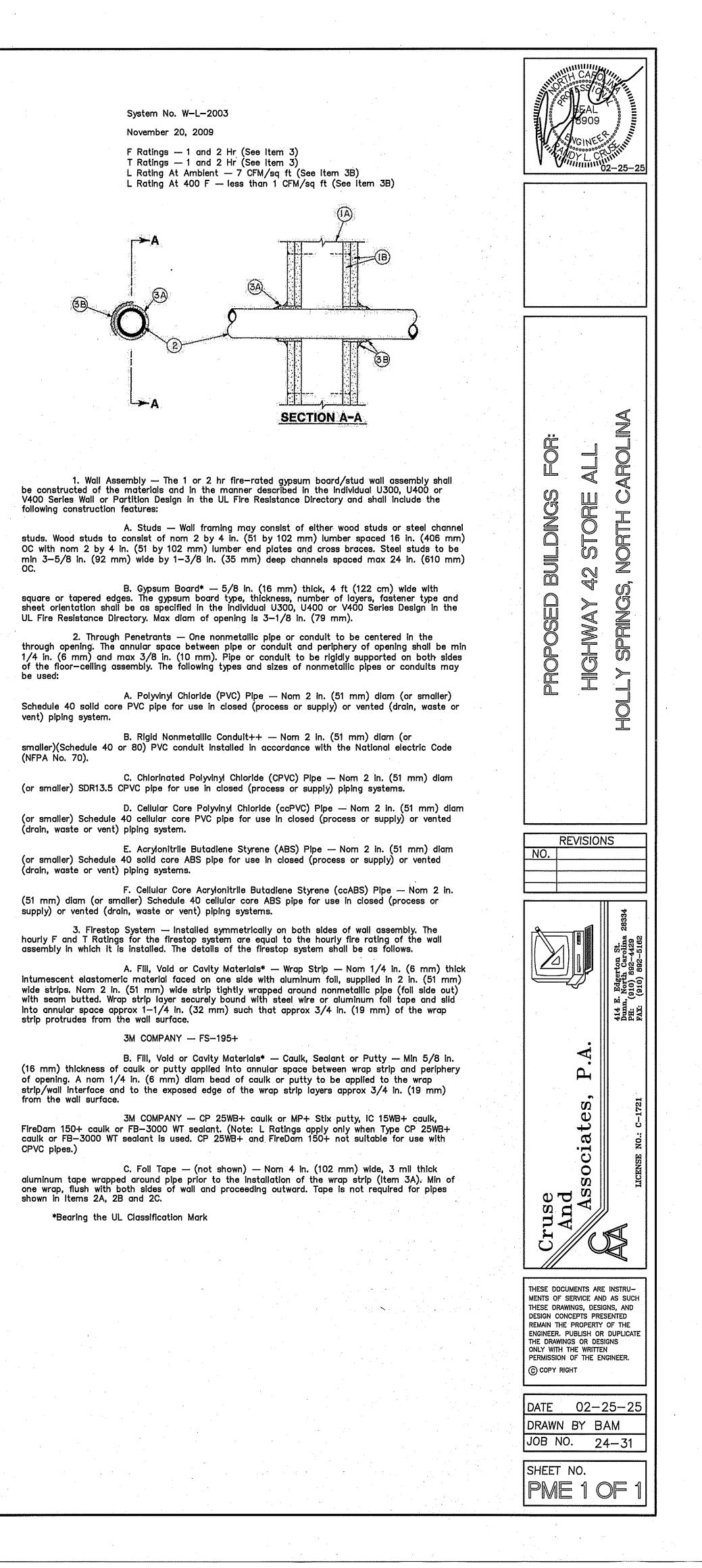
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact locations between wallboard and pipe, a min 1/2 in. diam bead of fill material shall be applied at the pipe/wallboard interface.

PENETRATION DETAILS

NOT TO SCALE

JOHNS MANVILLE INTERNATIONAL INC — FireTemp™ CI, FireTemp™ CE

*Bearing the UL Classification Mark



SUBMITTED TO :

F & S LAND DEVELOPMENT LLC. ATTN: DREW STEPHENSON 460 AUSLEY ROAD FUQUAY VARINA, NORTH CAROLINA 27526

PHONE: (919) 730-7802

NOTE: DE REFERENCI EXAMPLE:	TAII E TH DE	LABELS (IE ERECTIO TAIL A/900	CON' ON I O R	TAINED WIT DRAWINGS EFERS TO	HIN MAR DET	THIS SET KED IN TH AIL "A" LO	OF IS CAT	PLANS MA SCHEDULE. ED ON ERC	Y :900	DX.
	נ	ERECI	<u>'IC</u>	ON DE	2 A	WINGS	5			
ERC010X	Τ	ERC200X		ERC420X	Γ	ERC619X		ERC752X		
ERC016X	$\mathbf{\nabla}$	ERC201X	X	ERC500X	1	ERC620X		ERC753X		
ERC100X	$\mathbf{\nabla}$	ERC202X	K	ERC505X	$\mathbf{\nabla}$	ERC621X		ERC754X		
ERC105X	X	ERC203X	\square	ERC506X	X	ERC622X		ERC800X		
ERC106X	Γ	ERC204X		ERC515X		ERC623X		ERC900X		
ERC110X	$\mathbf{\nabla}$	ERC206X		ERC600X	\boxtimes	ERC624X		ERC901X		
ERC112X	X	ERC207X	1	ERC601X	X	ERC625X		ERC902X		
ERC115X	X	ERC208X	\boxtimes	ERC602X	X	ERC626X		ERC903X		
ERC125NXT		ERC209X		ERC603X		ERC630X	\boxtimes	ERC904X		
ERC130X	X	ERC250X	\boxtimes	ERC604X		ERC631X	\boxtimes	ERC905X		
ERC150X		ERC250XFHP		ERC605X		ERC650X	\mathbf{X}	ERC907X		SCHEDULE OF DRAWINGS
ERC151X		ERC251X		ERC606X		ERC651X		ERC908X		
ERC152X		ERC251XFHP		ERC607X		ERC652X		ERC910X		DRAWING NO. DESCRIPTION
ERC153X		ERC252X	\boxtimes	ERC608X		ERC700X	\mathbf{X}	ERC911X		CS1 COVER SHEET CS2 BUILDING NOTES
ERC154X		ERC252XFHP		ERC609X		ERC710X		ERC912X		CS3 APPENDIX B
ERC155X		ERC253X		ERC610X		ERC711NXT		ERC913X		CS4 UL SPECIFICATIONS
ERC175X	Ι	ERC254X	\mathbb{X}	ERC611X		ERC713NXT		ERC914X		F1 FOUNDATION PLAN, DETAIL & NOTES F2 FOUNDATION PLANS & NOTES
ERC176X		ERC255X		ERC612X		ERC720X		ERC915X		F3 FOUNDATION PLAN & NOTES
ERC177X		ERC256X		ERC613X		ERC730X		ERC916X		F4 FOUNDATION PLAN & NOTES F5 FOUNDATION DETAILS
ERC178X		ERC257X		ERC614X		ERC731X		ERC917X		
ERC179X		ERC260X		ERC615NXT		ERC731XFHP		ERC918X		S1 ELEVATIONS & NOTES S2 FLOOR PLAN, SECTION, DETAIL & NOTES
ERC180X		ERC262X		ERC616X		ERC732X		ERC919X		S3 FLOOR PLAN & NOTES
ERC181X		ERC302X	\boxtimes	ERC617X	\boxtimes	ERC732XFHP				S4 FLOOR PLAN, & NOTES S5 CROSS SECTION, & DETAILS
ERC182X		ERC410XFL	X	ERC618X	\mathbb{N}	ERC750X				S6 FLOOR PLAN, CROSS SECTION, DETAILS & NOTES S7 BUILDING DETAILS
ERC183X		ERC411X		ERC618XALT	X	ERC751X				S7 BOILDING DETAILS S8 FRAMING ELEVATIONS



HWY 42 STORE ALL HOLLY SPRINGS, NORTH CAROLINA

WIND LOAD DESIGN DATA: ULTIMATE DESIGN WIND SPEED(V_{ULT}): 115 MPH NOMINAL DESIGN WIND SPEED (V_{ASD}) : 90 MPH RISK CATEGORY: II WIND EXPOSURE: B INTERNAL PRESSURE COEFFICIENT: \pm 0.18

SNOW LOAD DESIGN DATA: GROUND SNOW LOAD (Pg): 15.0 PSF FLAT-ROOF SNOW LOAD (P_f): 12.1 PSF SNOW EXPOSURE FACTOR (Ce): 1.2 SNOW LOAD IMPORTANCE FACTOR (I_s) : 1.0 THERMAL FACTOR (C_t) : 1.2

EARTHQUAKE LOAD DESIGN DATA: **RISK CATEGORY:** II SEISMIC IMPORTANT FACTOR (I_E) : 1.0 SEISMIC DESIGN CATEGORY: C ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-10 SECTION 12.8) **BASIC SEISMIC-FORCE-RESISTING SYSTEM:** LIGHT FRAMED WALLS WITH STEEL SHEAR PANELS SITE CLASS:D DESIGN BASE SHEAR: BUILDING "1": 1.837^K BUILDING "2": 3.200K BUILDING "3": 0.729^K **RESPONSE MODIFICATION FACTOR (R): 7.0** SEISMIC RESPONSE COEFFICIENT (C_s): 0.027 - MAPPED SPECTRAL RESPONSE ACCELERATION: (S_{S}) : 17.4% G (S₁); 8.4% G SPECTRAL RESPONSE COEFFICIENTS: $(S_{DS}):$ 18.6% G (S_{D1}): 13.4% G

BUILDING DATA :

BUILDING DESCRIPTION: SINGLE STORY METAL BUILDINGS BOLTED TO CONCRETE SLAB FOUNDATIONS. **BUILDING SIZE:**

PARKING DATA: SEE SITE PLAN BY OTHERS **BUILDING CODE:**

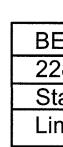
DESIGN CRITERIA:

THESE BUILDINGS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADINGS IN ADDITION TO THE <u>DEAD LOADINGS</u> : ROOF LIVE LOADING: 20 psf

TYPE OF CONSTRUCTION: II-B

PROJECT NUMBER: NC24204





BUILDING "1" 60' x 180' = 10,800 sq. ft. BUILDING "2" 60' x 395' = 23,700 sq. ft. BUILDING "3" 20' x 270' = 5,400 sq. ft. TOTAL = 39,900 sq. ft. 3'-4" EAVE HGT. 3'-4" EAVE HGT. 3'-6" EAVE HGT.

THE 2018 NORTH CAROLINA BUILDING CODE

THESE BUILDINGS HAVE BEEN DESIGNED TO CONFORM TO THE STRUCTURAL REQUIREMENTS OF THE 2018 NORTH CAROLINA BUILDING CODE WITH CURRENT REVISIONS.

FLOOR LIVE LOADING: 125 psf

USE GROUP: S-1

> IT IS THE RESPONSIBILITY OF THE BUYER/OWNER TO VERIFY THE FIREWALL, LIVE LOAD AND WIND LOAD **REQUIREMENTS WITH THE LOCAL CODE AUTHORITY.**

,
ETCO, Inc.
8 Commerce Blvd.
atesville, NC 28625
mited Engineering License # D-0140

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9:1

TIME:

1/8/2025

ION DATE:

CONSTRUC

FOR

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GENERAL NOTES:	CONSTRUCTION AND SAF
1. CONCRETE FOUNDATIONS AND FLOOR SLAB ARE TO BE SUPPLIED AND INSTALLED BY OTHERS . WEDGE ANCHORS FOR INTERIOR AND EXTERIOR FOOTINGS SUPPLIED AND INSTALLED BY BETCO.	1. THE CONTRACTOR 13 SOLELY RESPONSIBLE RELATED TO ALL WORK ON THIS PROJECT.
2. EXTERIOR OPENINGS, NOT DESIGNATED AS DOOR LOCATIONS, TO BE COMPLETED USING EXTERIOR WALL PANELS FURNISHED BY BETCO.	2. THE CONTRACTOR 19 SOLELY RESPONSIBLE ON OR ADJACENT TO THE PROJECT AND SH
3. USE DOW 791 SILICONE CAULK AND 1/2" WIDE BUTYL RUBBER TAPE SEALANT FOR ROOF INSTALLATION. USE DOW 799 SILICONE CAULK AT DOWNSPOUT TO GUTTER JOINT.	3. MEANS AND METHODS OF CONSTRUCTION A CONTRACTORS RESPONSIBILITY.
4. INTERIOR PARTITIONS PERPENDICULAR TO ROOF BEAM(S) MUST BE COMPLETED BEFORE ROOF PANELS ARE INSTALLED. USE PARTITION FRAMING TO PLUMB AND SQUARE COLUMNS AND HEADER SECTIONS. CHECK BUILDING	4. STRUCTURAL DRAWINGS ARE INTENDED TO
WIDTH AT TOP OF COLUMNS PRIOR TO ROOF INSTALLATION. 5. THOROUGHLY SWEEP ROOF PANELS FOLLOWING INSTALLATION TO REMOVE METAL DRILLINGS.	AND TRADES. THE CONTRACTOR SHALL CO 5. NO OPENINGS NOR ANY CHANGES IN SIZE, I ELEMENTS WITHOUT WRITTEN APPROVAL OF
6. THIS DESIGN IS BASED ON USING ONLY METAL BUILDING COMPONENTS WHICH ARE PROPRIETARY TO BETCO. FURTHER, THE PROFESSIONAL ENGINEER'S SEAL IS INVALID UNLESS ONLY BETCO METAL BUILDING COMPONENTS ARE UTILIZED.	6. THE CONTRACTOR IS RESPONSIBLE FOR L STRUCTURE, SUCH LOADS SHALL NOT EXC
1. METAL STUDS (IF APPLICABLE) MAY REQUIRE FIELD CUTTING DEPENDING UPON THE EAVE HEIGHT OF THE STRUCTURE.	T. THE STRUCTURE IS DESIGNED TO FUNCTION SUPPORT REQUIRED TO ACCOMMODATE T
8. UNIT SIZES SHOWN ARE NOMINAL. ACTUAL CLEAR DIMENSIONS INSIDE UNITS MAY VARY ACCORDING TO FINAL DESIGN OF COMPONENTS.	OF THE CONTRACTOR. 8. THE CONTRACTOR SHALL INFORM THE STR DEVIATION OR SUBSTITUTION OF REQUIRED
9. THESE DRAWINGS ARE THE PROPERTY OF BETCO, INC. AND MAY NOT BE USED OR REPRODUCED IN WHOLE OR IN	OF ANY REQUIREMENTS OF THE CONTRACT SHOP DRAWINGS, PRODUCT DATA, ETC., UN THE STRUCTURAL ENGINEER IN WRITING OF
PART WITHOUT THE EXPRESS WRITTEN CONSENT OF BETCO, INC. 10. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL	STRUCTURAL ENGINEER HAS GIVEN WRITTE 9. ALL THINGS WHICH, IN THE OPINION OF THE
DRAWINGS AND OTHER CONTRACT DOCUMENTS. 11. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL SLEEVES, PADS, DEPRESSIONS,	CONTRADICTIONS OR AMBIGUITIES IN THE OF THE STRUCTURAL ENGINEER CORRECT WORK MAY PROCEED.
OPENINGS, ETC. AS REQUIRED BY THE VARIOUS TRADES.	10. CONTRACTOR SHALL VERIFY ALL EXISTIN WITH NEW WORK IN AREAS AFFECTED BY
FOUNDATIONS:	IN WRITING OF CONFLICTS BETWEEN EXISTI
 THE FOUNDATION DESIGN IS BASED ON A PRESUMED ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF. NOTIFY ENGINEER IF SITE CONDITIONS DIFFER FROM DESIGN ASSUMPTIONS SPECIFIED. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL, 	INCONSISTENCIES ON THE STRUCTURAL DI CONTRACT, SHOP, FABRICATION, OR OTHE OF THE STRUCTURAL ENGINEER PRIOR TO
THE ENGINEER SHALL BE NOTIFIED.	12. DO NOT SCALE THESE DRAWINGS, USE TH
3. TOP OF FOOTING ELEVATIONS ARE SHOWN ON THE DRAWINGS ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD IN ACCORDANCE WITH THE GUIDE LINES SET FORTH IN THE DRAWINGS AND SPECIFICATIONS.	
4. FILL MATERIAL SHALL BE FREE OF ROOTS. WOOD OR OTHER ORGANIC MATERIAL AND COMPLY WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. MATERIALS USED FOR FILL UNDER FOOTINGS AND WITHIN BUILDING LIMITS SHALL BE TESTED AND APPROVED FOR THE USE BY THE GEOTECHNICAL TESTING AGENCY.	<u>CONCRETE:</u> 1. SUBMIT WRITTEN REPORTS OF EACH PROPOSE
5. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEERS APPROVAL.	THAN 15 DAYS PRIOR TO THE START OF WORK THAN TWELVE (12) MONTHS PRIOR TO THE DAT
6. FOUNDATION WALLS RETAINING EARTH SHALL BE BRACED AGAINST BACK FILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.	2. ALL CONCRETE WORK SHALL BE DONE IN AC ACI BUILDING CODE REQUIREMENTS FOR REIN (ACI 318-14).
 7. FOUNDATION WALLS OR GRADE BEAMS HAVING EARTH PLACED ON EACH SIDE SHALL HAVE BOTH FILLED SIMULTANEOUSLY TO MAINTAIN A COMMON ELEVATION. 8. DO NOT PLACE CONCRETE IN ANY EXCAVATION CONTAINING ICE, FROST, FROZEN GROUND 	3. ALL CONCRETE SHALL BE TESTED BY AN INC
OR FREE WATER FROZEN SUB GRADES MUST BE THAWED AND RECOMPACTED PRIOR TO PLACING CONCRETE.	FOR STANDARD PARAMETERS (SLUMP, COMP TWO COPIES OF ALL REPORTS SHALL BE SUB ARCHITECT.
9. EARTH FORMED FOOTINGS SHALL CONFORM TO THE SHAPE, LINES, AND DIMENSIONS AS SHOWN ON THE FOUNDATION PLAN. ALL WATER SHALL BE REMOVED BEFORE DEPOSITING CONCRETE.	4. ALL NORMAL WEIGHT CONCRETE SHALL HAVE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. CONC
10. BEFORE PLACING CONCRETE, ALL EMBEDDED ITEMS SHALL BE PROPERLY LOCATED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE.	STRENGTH SHALL BE 3000 PSI AT 28 DAYS, SLABS ON GRADE, ALL CONCRETE FOR FLOC SHALL BE NORMAL WEIGHT CONCRETE WITH C
11. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.	4000 PSI AT 28 DAYS. 5. MIX DESIGNS, INCLUDING WATER CEMENT RAT
 12. PERIMETER FOUNDATION MUST NOT EXCEED 1/4" ELEVATION VARIATION ALONG ANY 50' DISTANCE OF BUILDING LENGTH. 13. PERIMETER FOUNDATION TO EXTEND BELOW FROST LINE. VERIFY REQUIRED DEPTH WITH LOCAL BUILDING OFFICIALS 	PREPARED IN ACCORDANCE WITH MOST CUR WHERE NOTED OTHERWISE IN THE PROJECT ST CONFORM TO ASTM C 150 TYPE I OR AT CON
PRIOR TO PROCEEDING WITH FOUNDATION WORK AND NOTIFY ENGINEER OF DEVIATION FROM DRAWING. 14. THE AMERICAN CONCRETE INSTITUTE DOES NOT RECOGNIZE FIBERMESH AS A SUBSTITUTE FOR WIRE	TYPE IP WHERE FLY ASH IS PERMITTED. NOR ASTM C 33 AGGREGATE WITH MAXIMUM UNIT W SHALL CONFORM TO ASTM C 330 AGGREGATE
MESH REINFORCED CONCRETE WHEN SUBJECTED TO TENSILE STRESS 15. SAW CUT CONTROL JOINTS IN SLAB SURFACE AT APPROXIMATELY 10'-0' INTERVALS OFFSET	CHLORIDE SHALL BE PERMITTED IN ANY CON
CUTS 2'-6' MINIMUM FROM INTERIOR COLUMN LINES.	AGGREGATE SIZES SHALL BE: I. FORMED CONCRETE ELEMENTS, UNO. II. GRADE SLABS AND EARTH FORMED
REINFORCING STEEL:	III. COARSE MASONRY GROUT REQUIRED IV. FINE MASONRY GROUT REQUIRED
1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60 (Fy-60,000 PSI).	6. WATER REDUCING ADMIXTURE SHALL BE USE
2. FIELD BENDING OF CONCRETE REINFORCING STEEL IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.	USED IN ALL CONCRETE EXPOSED TO FREEZI OR SERVICE CONDITIONS.
3. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI SP-66 'ACI DETAILING MANUAL-1994' ANDTHE 'CRSI MANUAL OF STANDARD PRACTICE', LATEST EDITION.	8. WATER/CEMENT RATIO SHALL NOT EXCEED @ FREEZING/THAWING.
4. PLACE REINFORCEMENT AND TIES IN GROUT SPACES PRIOR TO GROUTING.	9. ALL PUMPED CONCRETE SHALL HAVE A WATE SHALL CONTAIN A HIGH RANGE WATER REDUC
5. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE UNLESS NOTED OTHERWISE.	10. IN NO CASE SHALL A WATER/CEMENT RATIOS 1. ALL FOUNDATION CONCRETE fc 3000 11. EXTERIOR PAYING CONCRETE fc 3500
A. FOOTING AND GRADE BEAMS IN GROUND CONTACT 3 INCHES B. BEAMS AND COLUMNS 2 INCHES	III. ALL EXPOSED C.I.P. WATERTABLE, PIER IIII. SLABS ON GRADE for 3000 poi
B. BEAMS AND COLUMNS 2 INCHES C. SLABS, WALLS, AND JOISTS 3/4 INCH - NOT EXPOSED TO EARTH, LIQUID OR WEATHER D. SLABS ON GRADE 2 INCHES FROM TOP	11. LIQUID MEMBRANE CURING COMPOUND WITH A APPLIED WITHIN TWO (2) HOURS AFTER COMPL
E. FORMED SURFACES IN GROUND CONTACT 2 INCHES	AND WALLS, UNO., OTHER THAN FOOTINGS AND 12. FLOORS IN AREAS RECEIVING QUARRY TILE,
6. DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-14 CHAPTER 12 AND AS INDICATED ON THE DRAWINGS. WHERE SPLICES ARE NOT CALLED OUT ON THE DRAWINGS, USE CLASS "B", BUT IN NO	SHALL BE CURED WITH DISSIPATING LIQUID N CURED BY USE OF MOISTURE RETAINING COV THOROUGHLY BROOMED AND WASHED OFF F
CASE SHALL ANY SPLICE BE LESS THAN 12 INCHES, FOR BARS AS INDICATED BELOW THE BASIC DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY THE FACTORS AS INDICATED FOR TENSION OR COMPRESSION AND THEN ROUNDED UP TO THE NEAREST	13. USE A NON-CORROSIVE, NON-CHLORIDE ACC TEMPERATURES BELOW 40 DEGREES. UNIFOR TEMPERATURE OF NOT LESS THAN 50 DEGRE
WHOLE INCH. THE FACTORS INDICATED BELOW ARE CUMULATIVE FOR EACH OF THE CONDITIONS APPLICABLE.	WITH ACI 306. 14. ALL CONSTRUCTION JOINTS SHOWN ON THE D
1. WELDED WIRE MAT/FABRIC SHALL CONFORM TO ASTM A184 AND A185 RESPECTIVELY AND BE LAPPED 1'-0' AT ALL SPLICES.	STRUCTURE UNLESS THEIR ELIMINATION IS AP 15. REINFORCING IN ALL ABUTTING CONCRETE, IN
8. ALL REINFORCING TERMINATING AT THE TOPS OF COLUMNS AND PILASTERS SHALL. BE HOOKED UNLESS OTHERWISE NOTED.	OR AROUND ALL CORNERS OR INTERSECTION AND SPACING TO THE REINFORCING IN THE A
9. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF	16. REFER TO ARCHITECTURAL DRAWINGS FOR D WASHES, MASONRY ANCHORS, BRICK LEDGE EMBEDDED PLATES, BOLTS, ANCHORS, ANGL
CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCEMENT REQUIRED AT OPENINGS THROUGH CONCRETE STRUCTURES. INCLUDE ALL ACCESSORIES SPECIFIED/ REQUIRED TO SUPPORT REINFORCING.	17. FORMS FOR ROUND COLUMNS SHALL BE ONE FINISH ON EXPOSED COLUMNS.
10. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING	18. REFER TO ARCHITECTURAL DRAWINGS FOR C CONFORM TO REQUIREMENTS OF ACI 301.
RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH THE OTHER TRADES.	19. BASE PLATES, ANCHOR RODS, SUPPORT ANC GRANULAR FILL SHALL BE COVERED WITH A
11. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AND TESTING AGENCY A MINIMUM OF 48 HOURS PRIOR TO ALL CONCRETE POURS IN ORDER TO PERMIT REINFORCING STEEL REVIEW AS REQUIRED BY THE INSPECTION SCHEDULE.	20. FINISHING TOLERANCE SHALL BE WITHIN CLA SHALL BE GIVEN TO SEQUENCING OF CONCRI
12. REINFORCING IN ALL CONTINUOUS STRIP FOOTINGS SHALL HAVE CORNER BARS OR DOWELS. PROVIDE AT ALL CORNERS AND INTERSECTIONS.	ELEVATIONS. 21. NON-SHRINK GROUT SHALL BE PRE-MIXED, N CONTAINING SILICA SANDS, PORTLAND CEME AGENTS. PRODUCTS SHALL ONLY REQUIRE TH

22. PROVIDE CONCRETE GROUT - NOT MORTAR - FOR REINFORCING MASONRY LINTEL AND BOND BEAMS WHERE INDICATED ON DRAWINGS OR AS SCHEDULED.

OR GYPSUM.

- 23. TOLERANCE FOR ANCHOR RODS AND OTHER EMBEDDED ITEMS SHALL BE PER THE AISC CODE OF STANDARD PRACTICE SECTION 1.5.
- 24. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMN, WALL, SLAB, OR BEAM EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

ND SAFETY:

RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS HIS PROJECT.

- RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER COJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS. NOTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE
- INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS TOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.
- IGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL PPROVAL OF THE STRUCTURAL ENGINEER INSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE IALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.
- TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR COMMODATE THE CONTRACTORS MEANS AND METHODS ARE THE RESPONSIBILITY
- FORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING, OF ANY OF REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONTRACTOR IS NOT RELIEVED HE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEERS REVIEW OF DATA, ETC., UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.
- PINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, WITIES IN THE DRAWINGS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION ER CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED
- ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING FFECTED BY THE EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED ETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
- LE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. TRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER TION, OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION EER PRIOR TO PROCEEDING WITH AFFECTED WORK.
- WINGS, USE THE DIMENSIONS SHOWN.
- CH PROPOSED CONCRETE DESIGN MIX NOT LESS TART OF WORK. DESIGN MIXES PREPARED MORE OR TO THE DATE THE SUBMITTAL ARE NOT PERMITTED.
- DONE IN ACCORDANCE WITH CURRENT ENTS FOR REINFORCED CONCRETE
- TED BY AN INDEPENDENT TESTING AGENCY (SLUMP, COMPRESSIVE STRENGTH, ETC.) HALL BE SUBMITTED TO THE ENGINEER/
- SHALL HAVE ASTM C-33 AGGREGATE 50 PCF. CONCRETE COMPRESSIVE AT 28 DAYS, MINIMUM FOR FOUNDATIONS AND RETE FOR FLOOR SLABS ON METAL DECK FORMS CRETE WITH COMPRESSIVE STRENGTH OF
- CEMENT RATIOS AND SLUMPS, SHALL BE TH MOST CURRENT ACI 301 CHAPTER 3, EXCEPT PROJECT SPECIFICATIONS. CEMENT SHALL
- I OR AT CONTRACTOR'S OPTION, ASTM C 595 MITTED. NORMAL WEIGHT CONCRETE SHALL CONFORM TO XIMUM UNIT WEIGHT OF 150 PCF AND LIGHT WEIGHT CONCRETE BO AGGREGATE. NO ADMIXTURES CONTAINING CALCIUM D IN ANY CONCRETE.
- EMENTS, U.N.O. RTH FORMED ELEMENTS OUT REQUIRED

......*8 STONE (3/8" MAX)

- HALL BE USED IN ALL CONCRETE.
- ACCORDANCE WITH ACI 301-84 TABLE 3.4.1. SHALL BE BED TO FREEZING AND THAWING DURING CONSTRUCTION
- OT EXCEED 0.45 FOR ANY CONCRETE SUBJECTED TO
- HAVE A WATER/CEMENT RATIO LESS THAN 0.45 AND WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).
- EMENT RATIOS EXCEED THE FOLLOWING: ETE fc 3000 pei RETE fc 3500 psi.....
- POUND WITH A MINIMUM 30% SOLIDS CONTENT SHALL BE AFTER COMPLETION OF FINISHING TO ALL CONCRETE FLATWORK FOOTINGS AND GRADE BEAMS.
- MARRY TILE, CERAMIC TILE AND LIQUID FLOOR HARDENER TING LIQUID MEMBRANE CURING COMPOUND OR WET ETAINING COVER. DISSIPATING CURING COMPOUND SHALL BE ASHED OFF PRIOR TO APPLICATION OF FLOOR FINISH. HLORIDE ACCELERATING ADMIXTURE IN CONCRETE EXPOSED TO REES. UNIFORMLY HEAT THE WATER AND AGGREGATES TO A
- IAN 50 DEGREES. PLACE AND CURE CONCRETE IN ACCORDANCE OWN ON THE DRAWINGS SHALL BE INCORPORATED INTO THE NATION IS APPROVED BY THE STRUCTURAL ENGINEER.
- CONCRETE, INCLUDING FOOTINGS, SHALL BE CONTINUOUS THROUGH INTERSECTIONS. DOWELS OR SPLICES SHALL BE EQUAL IN SIZE CING IN THE ABUTTING MEMBERS.
- AWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS NCHORS, ANGLES, ETC.
- HALL BE ONE PIECE FIBERGLASS FORM TO PRODUCE SMOOTH
- AWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, ACI 301.
- SUPPORT ANGLES AND OTHER STEEL EXPOSED TO EARTH OR ERED WITH A MINIMUM OF 3' OF CONCRETE.
- BE WITHIN CLASS B IN ACCORDANCE WITH ACI 301 AND CONSIDERATION NG OF CONCRETE PLACEMENT TO FACILIATE CONTROL OF FINISH
- PRE-MIXED, NON-CORROSIVE, NON-METALLIC, NON-STAINING RTLAND CEMENT, SHRINKAGE COMPENSATING AND WATER REDUCING Y REQUIRE THE ADDITION OF WATER. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5000 PSI AFTER ONE DAY AND 1000 PSI AFTER 28 DAYS. GROUT SHALL BE FREE OF GAS PRODUCING OR AIR RELEASING AND OXIDIZING AGENTS AND CONTAIN NO CORROSIVE IRON, ALUMINUM

BRICK VENEER - STEEL STUDWALLS:

- I. AIR SPACE: a, 2 in (51 mm) MINIMUM AIR SPACE RECOMMENDED ±1 in (24.5 mm) MINIMUM AIR SPAC 6.4 1/2 in (114 mm) MAXIMUM DISTANCE REQUIRED BETWEEN BACK OF BRICK VENEEI STEEL FRAMING UNLESS ANCHORS ARE RATIONALLY DESIGNED.
- 2. FLASHING: a. DO NOT STOP FLASHING BEHIND FACE OF THE BRICKWORK.
- b. PLACE FLASHING AT ALL POINTS WHERE AIR SPACE IS INTERRUPTED. C. EXTEND FLASHING VERTICALLY UP THE BACKING TO 8 in (203 mm) MINIMUM HEIG d. LAP FLASHING 4 in (102 mm) MINIMUM HEIGHT UNDER WATER-RESISTANT BARRIER SHEATHING ABOVE GRADE.
- e. INSTALL BASE FLASHING MINIMUM 6 in (152 mm) ABOVE GRADE. 1. TURN UP FLASHING ENDS INTO HEAD JOINT A MINIMUM OF 1 in (25.4 mm) FOR FORM
- 3. WEEPS: a. OPEN HEAD JOINT WEEPS SPACED AT NO MORE THAN 24 in (610 mm) O.C. RECOM b. MOST BUILDING CODES PERMIT WEEPS NO LESS THAN 3/16' in (4.8 mm) DIAMETER NO MORE THAN 33 in (838 mm) O.C.
- c. WICK AND TUBE WEEP SPACING RECOMMENDED AT NO MORE THAN 16 in (406 4. ANCHORS:
- a. CORRUGATED ANCHORS NOT PERMITTED WITH STEEL STUD BLOCKING. b. MINIMUM WI.T (3 gage) ADJUSTABLE WIRE ANCHORS, HOT-DIPPED GALVANIZED, " PER ASTM A153 CLASS B-2.
- C. VERTICAL SPACING: MAXIMUM 16 in (406 mm) O.C. d. HORIZONTAL SPACING: MAXIMUM 24 in (610 mm) O.C. 6. SECURELY ATTACH ANCHORS TO THE STEEL STUDS THROUGH THE SHEATHING, N SHEATHING ALONE.
- 5. SHELF ANGLES AND LINTELS: A. SHELF ANGLES LOCATED ABOVE THE HEIGHT LIMIT MAY SUPPORT NO MORE TH I STORY OF BRICK b. SIZE HORIZONTAL LEG OF ALL SHELF ANGLES AND LINTELS TO PROVIDE A MIN
- BEARING OF 2/3 THICKNESS OF THE BRICK WYTHE. 6. SHEATHING:
- a. EXTERIOR GRADE GYPSUM SHEATHING OR OSB OR GLASS FIBER MAT-FACED S OR CEMENT BOARD, MINIMUM 1/2 in (12.7 mm) THICK.
- 7. WATER-RESISTANT BARRIER: a. WATER-RESISTANT BARRIERS INCLUDE 15 ASPHALT FELT, BUILDING PAPER, QUA HIGH-DENSITY POLYETHYLENE OR POLYPROPYLENE PLASTICS (HOUSEWRAPS).
- b. INSTALL WATER-RESISTANT BARRIER OVER SHEATHING. c. SEAL WATER-RESISTANT SHEATHING PER MANUFACTURER TO PERFORM AS WATER-REGISTANT BARRIER
- d. SHIP LAP WATER-RESISTANT BARRIER PIECES MINIMUM 6 in (152 mm).
- 8. STEEL STUDS:
- a. GALVANIZED STEEL STUDS WITH MINIMUM G-90 COATING. b. RESTRICT ALLOWABLE OUT-OF-PLANE DEFLECTION OF STEEL STUDS TO L/600 SERVICE LEVEL LOADS. c. MINIMUM @@43 in (18 gage $\pm 1@3$ mm) Studs for Exterior Walls. d. do not field weld steel studs.
- 9. MORTAR: a. COMPLY WITH ASTM C270. b. TYPE N RECOMMENDED ± TYPE & ALTERNATE.
- 10. EXPANSION JOINTS: a. PROVIDE VERTICAL AND HORIZONTAL EXPANSION JOINTS THROUGH BRICK VE

MAX OPENING WIDTH	CK LINTEL SCHEDULE STEEL ANGLE
4'-0"	L 3" x 3 1/2" x 1/4" LLH
6'-0"	L 4" x 3 1/2" x 1/4" LLV
8'-0"	L 5" x 3 1/2" x 1/4" LLV
10'-0"	L 6" x 3 1/2" x 5/16" LLV
12'-0"	L 7" x 4" x 3/8" LLV
14'-0"	L 7" x 4" x 3/8" LLV
	' MINIMUM BEARING. ED LINTELS TO BE HOT DIP

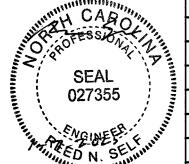
3. ABOVE SCHEDULE FOR LOOSE LINTELS.

(NOT BY BETCO)

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DATE

BETCO, Inc.
228 Commerce Blvd.
Statesville, NC 28625
Limited Engineering License # D-0140



REVISIONS

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Name of Project: Hwy 4 Address: Holly Springs, Owner/Authorized Ager Owned By: <u>Private</u> Code Enforcement Juris	NC nt: Drew Stephenson	Zip-Code: 27540 Phone # (919) 730-780	13 E-Mail:		í.
CONTACT: DESIGNER FIRM Architectural	NAME		TELEPHONE #	E-MAIL	
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Mechanical Sprinkler-Standpipe Structural Betco		27355	(704)872-2999	recds@belcaind.com	
Other	JD	· · · · · · · · · · · · · · · · · · ·			
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Standpipes: <u>N/A</u> Primary Fire District:		Flood Hazard Area: §	Select one		
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	Gross B Existing (sq ft)	Building Area Table NEW (SQ FT) 10800	***************************************	B-TOTAL	
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	*****				*****
TOTAL		39900		39900	
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								 :								
ncidental Uses (Table 509 pecial Uses (Chapter 4 –	List Code Sec	tions): _						-		North	N/A N/A					
pecial Provisions: (Chap lixed Occupancy: <u>No</u> <u>Select one</u> <u>Actual Area of (</u> Allowable Area of	Separation: <u>Se</u> Decupancy A	lect one ·l· All	Exception:	Occupancy Occupancy	$\frac{B}{>B} \leq 1$				F	South Interior walls and partitions	N/A N/A N/A N/A					
STORY DESCRIPTIO NO. USE	BLDC	(A) 3 arfa per 9 (actual)	(b) TABLE 506.24	ARBA FOI	(C) R FRONTACE REASE ^{1,5}	(D) ALLOWABLE AREA STORY OR UNLIMIT			F C F	Floor Ceiling Assembly Columns Supporting Floors Roof Construction, including supporting beams and joists	N/A	NC				
Bldg 1 S-1 Bldg 2 S-1 Bldg 3 S-1	1080 2370 5400	0	17500 17500 17500	0 0 0		17500 17500 17500				Roof Ceiling Assembly Columns Supporting Roof Shaft Enclosures - Exit	N/A N/A N/A N/A					•••••••••••••••••••••••••••••••••••••••
Frontage area increases frontage area applicable area applicable area applicable area applicable area applicable frontage area of oper control towers must comprontage increase is based.	conts a public w imeter (F/P) dth of public w e increase $I_f =$ under conditio total number en parking gara ply with Table	way or ope = ay = 100[F/P - ms of Sect of storics ges must of 412,3.1,	m space having (P) (W) $-0.251 \times W/30 =$ tion 507. in the building comply with Tab	x D (maxin ole 406.5.4	_ (%) num3 stories) (506.2).	ffic			Corridor Separation Occupancy/Fire Barrier Separatio Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/ Sleeping Unit Separation	N/A N/A N/A N/A	NC=	Non-combu	ustible		
			WABLE HEIG		WN ON PLANS	CODERBFE	1051077			Fire Separation Distance		ENTAGE OF		P ENING C Allowable		FIONS Actual
Building Height in Feet (Ta Building Height in Stories (55 ft2	Bidg.	1 & 2; 9.33 ft dg 3; 8.5 ft 1					(FBBT) FROM PROPERTY LINES	P	ROTECTION ABLE 705.8)	·.	(%)		
Provide code reference if the "Sh			based on Table 504,													
BUILDING ELEMENT Structural Frame, including columns, girders,	FIRE SEPARATION DISTANCE (PEET)		RATING PROVIDED (W/	REPTEN I Detail # And Sheet #	S DESIGN # FOR RATED ASSEMBLY	RATED PENETRATION	SHEE'T # FOR RATED JOINTS		E Fi Si	Emorgency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Carbon Monoxide Detectio	<u>Select</u> <u>Select</u> <u>Select</u> Select	one one one	TEM RE(QUIREME	NTS	
trusses Bearing Walls Rxterior North East West South Interior Nonbearing Walls and	>-10 ft >= 10 ft >= 10 ft >= 10 ft >= 10 ft N/A									 e Safety Plan Sheet #: Fire and/or smoke rate Assumed and real prop Exterior wall opening a 	l wall locatio erty line loca	ns (Chapter 7) tions (if not on	the site pla	un))
BUILDING CO (PRO ESIGN LOADS: Importance Facto Live Loads: Ground Snow Los Wind Load: USMIC DESIGN CATH ovide the following Seism Risk Category (Ti Spectral Response Site Classification Basic structural s Seismic Base Shea Analysis Procedu Architectural, Me	DVIDE ON TH Seismi Roof Mezza Floor ad: 15 psf Design Wi Exposure (Wind Base CGORY: C nic Design Para able 1604.5) e Acceleration (ASCE 7) Data Source: ystem Buill ar: Bidg 1; V Bidg 2; V Bidg 3; V re: Equ echanical, Corr NTROL: Wind	IARY STRUC HE STRUC (Is)] ic [Is) inine [Is) inine [Is) ameters: [Iso iss=17. [Iso Press [Iso kling Fran [X=3.200 Is] (x=0.729 Is] [isolent La ivalent La [isolent La	CTURAL DESJ CTURAL SHE I.0 20 psf N/A psf 125 psf V(ultimate)= E WFRS): Bldg Bldg Bldg Bldg Bldg Bldg Bldg Sldg Sldg Sldg Sldg Sldg Sldg Sldg S	COMIN GN EFTS IF A 115mph (A 1; Vx= 27. 2; Vx= 59 3; Vx= 37. S ₁ 8.4	PPLICABL SCE 7-10) 2 k Vy= 1' 3 k Vy= 3 .0 k Vy= 9	E) 74 k 83 k	TS			ECHANICAL SYSTEMS Thermal Zone winter dry l summer dry Interior design con- winter dry l summer dry relative hur Building heating lo Building cooling los Mechanical Spacin Unitary descript heating cooling size cate Boiler Size cate Chiller	/IDF ON TH	MECHANICA IE MECHANICA SYSTEMS AN	R ALL (AL DESIC CAL SHE L SUMM ID EQUIP	COMM GN ETS IF AJ ARY		
<u>Presumptive Beari</u> Pile size, type, and D18 NC Administrative Cod	ng <u>Capicity</u> 30 capacity								201	18 NC Administrative Code	and Policies					
-		10-11/		<u> </u>						REVISIONS	· · · · · · · · · · · · · · · · · · ·				DATE	BY

	 Occupant loads for each area Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for
	purposes of occupancy separation Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) Location of doors with electromagnetic egress locks (1010.1.9.9) Location of doors equipped with hold-open devices Location of emergency escape windows (1030) The square footage of each fire area (202)
	The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above ACCESSIBLE DWELLING UNITS (SECTION 1107) TOTAL ACCESSIBLE TYPEA TYPE A TYPE B TOTAL
	UNITS UNITS UNITS UNITS UNITS UNITS UNITS UNITS ACCESSIBLE UNITS REQUIRED PROVIDED REQUIRED PROVIDED REQUIRED PROVIDED PROVIDED
CULATIONS ACTUAL SHOWN ON PLANS (%)	ACCESSIBLE PARKING (SECTION 1106) LOT OR FARKING TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # ACCESSIBLE AREA REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH ACCESSIBLE S' ACCESS AISLE 132" ACCESS S' ACCESS PROVIDED PROVIDED TOTAL Image: Colored state st
	PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
	USE WATERCLOSETS URINALS LAVATORIES SHOWERS DRINKING FOUNTAINS MALE FEMALE UNISEX MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE SPACE EXIST'G Image: Constraint of the second sec
(705.8) 1004.1.2)	SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
	2018 NC Administrative Code and Policies
RCIAL PROJECTS .icable)	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY
	ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Select one Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed
	Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1) C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating
I	
	2018 NC Administrative Code and Policies
AS NOTED	2018 NC Administrative Code and Policies DETCCO PROJECT NAME: PROJECT ADDRESS: HOLLY SPRINGS, NORTH CAROLINA OWNER: F & S LAND DEVELOPMENT LLC. NC24204 SHEET TITLE: APPENDIX B

8XUV.U419 - Fire-resistance Ratings - ANSI/UL 263 | UL Produc 1/19/2021 UL Product **iQ**™ BXUV.U419 - Fire-resistance Ratings - AN Design/System/Construction/Assembly Usage Disclaimer Authorities Having Jurisdiction should be consulted in all cases as to the particular requirement use of UL Certified products, equipment, system, devices, and materials. • Authorities Having Jurísdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have bee compliance with applicable requirements. The published information cannot always address en encountered in the field. • When field issues arise, it is recommended the first contact for assistance be the technical serv manufacturer noted for the design. Users of fire resistance assemblies are advised to consult th each product category and each group of assemblies. The Guide Information includes specific and alternate methods of construction. Only products which bear UL's Mark are considered Certified. BXUV - Fire Resistance Ratings - ANSI/UL 263 Certi States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Cert See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances Design No. U419 December 10, 2020 Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & * Indicates such products shall bear the UL or cUL Certifica jurisdictions employing the UL or cUL Certification (such as Car https://iq.ulprospector.com/en/profile?e=14979 1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 | UL Produc QUAIL RUN BUILDING MATERIALS INC --- Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO --- Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC ---- Type SUPREME D24/30EQD and Type SUPREME D20 TELLING INDUSTRIES L L C --- Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC --- Type SUPREME D24/30EQD and Type SUPREME D20 2E. Framing Members* --- Steel Studs --- (Not Shown, As an alternate to Item 2) --- For use wit ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in, less than assembly CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD DMFCWBS L L C --- ProSTUD MBA METAL FRAMING - ProSTUD RAM SALES L L C --- Ram ProSTUD STEEL STRUCTURAL PRODUCTS L L C --- Tri-S ProSTUD 2F. Framing Members* --- Steel Studs --- Not Shown --- In lieu of Item 2 --- proprietary channel width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickn 3/8 in. to 3/4 in. less in lengths than assembly heights. SUPER STUD BUILDING PRODUCTS — The Edge 2G. Framing Members* ---- Steel Studs --- Not Shown ---- In lieu of Item 2 ---- proprietary channe width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. TUDCO BUILDING SYSTEMS --- CROCSTUD 2H. Framing Members* --- Steel Studs --- (Not Shown, As an alternate to Item 2) --- Fabricated metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than ass TELLING INDUSTRIES L L C — TRUE-STUD^M 2I. Framing Members* — Steel Studs ----2J. Framing Members* -- Metal Studs -- Not Shown --- In lieu of item 2 --- proprietary chann depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in, thick ga 3/4 in. less in lengths than assembly heights 2K. Framing Members* --- Steel Studs --- As an alternate to item 2 --- For use with item 1, chan from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max https://iq.ulprospector.com/en/profile?a=14979 1/13/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 | UL Product THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO ---- 1/2 in. thick Types C and 5/8 in, thick SCX UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC --- 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE USG MEXICO S A DE C V --- 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, I in. thick Types IP-X3 or ULTRACODE 5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer o when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2 - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard P

table. Nom 5/6 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of stud studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the for to 20 MSG steel studs item 28 with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC at perimeter field. For Joint Compound see item 5. To be used with Lead Batten Strips (see item 11A) or Lead D MAYCO INDUSTRIES INC -- Type X-Ray Shielded Gypsum
51. Gypsum Board* -- (As an alternate to item 5) -- Nom. 5/8 in. thick gypsum panels with bevele installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

installed as described in item 5. Steel stud minimum depth shall be as indicated in item 5. CGC INC — Type ULIX, ULX .

USG MEXICO S A DE C V --- Type ULX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer or when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secur Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in 1 required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and atta construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the : the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered of batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Gr RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and botto field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer- 1 in. panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. The second secon

https://iq.uiprospector.com/en/profile?e=14979

0	1/1 9/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product IQ	1/19/2021 BXUV.U419 - Fi/e-resistance Ratings - ANSI/UL 263 UL Product iQ FUSION BUILDING PRODUCTS Viper25 [™] Track	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product iQ	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 ; UL Product IQ
•	4 4A 2 5 5	IMPERIAL MANUFACTURING GROUP INC Viper25™ Track	STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK	1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
_ 263			1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in.	OEG BUILDING MATERIALS OEG Track
		18. Framing Members ^a — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.	(min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS — The Edge	10. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min, 25 MSG (0.018 in, min, bare metal
e installation and		CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track	*	channe shaped runners, min width to accommodate stud size, harcated from min, 25 MSG (0.018 in. min, bare metai thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO Viper X Track
by UL for		MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper20 ^w Track	1G. Framing Members* Floor and Ceiling Runner For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS CROCSTUD Track	
on nuance		FUSION BUILDING PRODUCTS — Viper20 [™] Track IMPERIAL MANUFACTURING GROUP INC — Viper20 [∞] Track		 Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item spaced a max of 24 in. OC, Studs to be cut 3/8 to 3/4 in. less than assembly height.
d by the product e Information for ernate materials	5 (7Aa) (7Ab)	IMPERIAL MANUFACTURING GROUP INC Viper20 ²⁰ Track	1H. Floor and Celling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv	2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in, min depth, spaced a max of 16 in. OC. Studs friction-fit into floor
		1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.	steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper20™ Track VT100	and ceiling runners, Studs to be cut 5/8 to 3/4 in, less than assembly height. 28. Framing Members" - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary
) • ()		ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20	FUSION BUILDING PRODUCTS Viper20™ Track VT100	channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC, Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum
Jnited	(4)(4A) (5) (2)	CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20	IMPERIAL MANUFACTURING GROUP INC Viper20 ^w Track VT100	board only. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25 ⁷⁴
Canada		QUAIL RUN BUILDING MATERIALS INC Type SUPREME D24/30EQD and Type SUPREME D20	11. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H,	CRACO MFG INC — SmartStud25™
	5 (TAa) (TAb)	SCAFCO STEEL STUD MANUFACTURING CO Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC Type SUPREME D24/30EQD and Type SUPREME D20	channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max, TELLING INDUSTRIES L L C TRUE-TRACK™	MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper25 [™]
		TELLING INDUSTRIES L L C Type SUPREME D24/30EQD and Type SUPREME D20		FUSION BUILDING PRODUCTS — Viper25™
		UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20	1). Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in, OC max.	IMPERIAL MANUFACTURING GROUP INC Viper25™
J) or			1K. Framing Members ^a — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and	2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min
ctively.	(5)	1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with the structure resource of the start of the star	ceiling with fasteners spaced 24 in. OC max.	depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0,018 in. thick gafv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO Viper20™
	1. Floor and Celling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with	with fasteners spaced max 24 in. OC, 1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to (tem 1) — For use with Items 2E, 5F	1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.	MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
	fasteners 24 in, OC max.	or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. CLARKDIETRICH BUILDING SYSTEMS	RESCUE METAL FRAMING, L L C — AlphaTRAK	FUSION BUILDING PRODUCTS Viper20 ^m
	1A. Framing Members* — Floor and Celling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25 [™] Track	CLARKDIETRICH BUILDING SYSTEMS CD ProTRAK DMFCWBS L L C ProTRAK	1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O,	IMPERIAL MANUFACTURING GROUP INC Viper20™
	CRACO MFG INC — SmartTrack25™	MBA METAL FRAMING - ProTRAK	proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track	
	MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper25 ^{tot} Track	RAM SALES L L C Ram ProTRAK		2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
1/15	https://lq.ulprospector.com/en/profile?e=14979 2/15	https://lq.uiprospector.com/en/profile?e=14979 3/15	https://lq.ulprospector.com/en/profile?e=14979	CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
			4/15	https://lq.ulprospector.com/en/profile?e=14979 5/15
	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product iQ 3/8 to 3/4 in. less than assembly height. EB METAL INC NITROSTUD	1/19/2021 BXUV.U419 - Fre-resistance Ratings - ANSI/UL 263 j UL Product IQ 48. Fiber, Sprayed* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with	When Item 7B, Steel Framing Members*, is used. Nonbearing Wall Rating is limited to 1 Hr. Min. stud. denth is 3-1/2 in. min. thickness of	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product iQ UNITED STATES GYPSUM CO — Type USGX
		material. The fiber is applied with adhesive at a minim ^{yum} density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus	when teem /a, see Framing Memoers', is used, Nonbearing Wall Kating is limited to 1 Hr. Min. stud depth is 3-1/2 In., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 In. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.	USG BORAL DRYWALL SFZ LLC Type USGX
	2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC, Studs to be cut		5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to	USG MEXICO S A DE C V Type USGX
	3/8 to 3/4 in. less than assembly height. OLMAR SUPPLY INC PRIMESTUD	5. Gypsum Board ^e — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and	one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX,	5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall
	2M. Framing Members* Steel Studs As an alternate to Item 2 For use with Item 1, channel shaped studs, fabricated	horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent	UNITED STATES GYPSUM CO Type FRX-G, SHX.	when 1/2 in, or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints
	from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.	layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:	USG MEXICO S A DE C V Type SHX.	centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
51 or Type bare metal	MARINO/WARE, DIV OF WARE INDUSTRIES INC StudRite™	Gypsum Board Protection on Each Side of Wall Min No. of Min	SB. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wali	Tield, NEW ENGLAND LEAD BURNING CO INC, DBA NELCO Nelco
	2N. Framing Members ^e — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3- 1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in.	Stud Layers Thkns of Depth, in. & Thkns Insulation	when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs (tem 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in, or 3/4 in. shown in Item 5. Wallboard Protection on Each	5F. Gypsum Board* (As an alternate to Item 5) For use with Items 1E and 2E and limited to 1 Hour Rating only. Gypsum
	to 3/4 in. less in length than assembly height, RESCUE METAL FRAMING, L L C — AlphaSTUD	Rating, Hr Items 2, 2C, 2D, 2f, 2G, 2O of Panel (Item 4) 1 3-1/2 1 layer, 5/8 in. thick Optional	Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in	panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
		1 2-1/2 1 layer, 1/2 in, thick 1-1/2 in. 1 1.5/2 1 layer, 2/4 in, thick 0-tional	the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12). RAY-BAR ENGINEERING CORP — Type RB-LBG	THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO Type SCX
	20. Framing Members ^a — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max, RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud	11-5/81 layer, 3/4 in. thickOptional21-5/82 layers, 1/2 in. thickOptional	5C. Gunsum Roard's - Korlies With Herm 101 - Dating Harts day 411 - Fred and a second	UNITED STATES GYPSUM CO 5/8 in, thick Type SCX, SGX, ULIX
		2 1-5/8 2 layers, 5/8 in. thick Optional	5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 In. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in, long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at	USG BORAL DRYWALL SFZ LLC 5/8 in. thick Type SCX, SGX
minimum el. Studs	2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24	2 3-1/2 1 layer, 3/4 in. thick 3 in. 3 1-5/8 3 layers, 1/2 in. thick Optional	the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered	5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square
ei. 31005	in, OC max. DEG BUILDING MATERIALS OEG Stud	3 1-5/8 2 layers, 3/4 in, thick Optional	one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges	or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing.
		3 1-5/8 3 layers, 5/8 in. thick Optional	and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through	Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for
inimum	2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.	4 1-5/8 4 layers, 5/8 in. thick Optional 4 1-5/8 4 layers, 1/2 in. thick Optional	both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC — Type SCX, ULIX.	the 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board Protection on Each Side of Wall
	CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X	4 2-1/2 2 layers, 3/4 in. thick 2 in.	THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO Type SCX	Min Stud No. of Layers Min Thkns of Rating, Depth, in. & Thickness Insulation
. (min bare	3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in, thick	CGC INC 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE	United States GYPSUM CO Type SCX, SGX, ULIX.	Hr Item 2E of Panel (Item 4) 2 1-5/8 2 layers, 1/2 in. thick Optional
	oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws	THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO 1/2 in. thick Type C and 5/8 in. thick Type SCX	USG BORAL DRYWALL SFZ LLC Type SCX	2 1-5/8 2 layers, 5/8 in. thick Optional
	with a min. head diam. of 0.292 in. at maximum 6 in. OC. In the perimeter and 12 in. OC, in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.	UNITED STATES GYPSUM CO 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C,	USG MEXICO S A DE C V Type SCX	3 1-5/8 3 layers, 1/2 in. thick Optional 3 1.5 (# 2 / 1 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +
ls, min 3/8 in, to	 Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. 	WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in, thick Types IP-X3 or ULTRACODE		3 1-5/8 3 layers, 5/8 in. thick Optional 4 1-5/8 4 layers, 5/8 in. thick Optional
	See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL	USG BORAL DRYWALL SFZ LLC 1/2 in, Type C; 5/8 in, Types C, SCX, SGX, ULTRACODE	5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. GCC INC — Type USGX	4 1-5/8 4 layers, 1/2 in. thick Optional
fabricated s to be cut	Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.	USG MEXICO S A DE C V 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE		CGC INC 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 In. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE
6/15	https://iq.ulprospector.com/en/profile?e=14979 7/16 1/19/2021 BXUV11419 - Eire-resistance Bailung - ANSU/I II, 263 II III, Product IO	https://iq.ulprospector.com/en/profile?e=14979 8/15	https://iq.ulprospector.com/en/profile?e≃14979 9/15	https://lq.uiprospector.com/en/profile?e=14979 10/15
	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product IQ 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC,	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product iQ No. 18 AWG galvanized steel wire Gypsum board attached to furring channels as described in Item 6. Not for use with	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 UL Product IQ 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter	1/19/2021 BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263 ; UL Product IQ
IP-AR, IP-	Screws offset min 6 in, from layer below. Four-layer systems: First layer-1 in, long for 1/2 in, 5/8 in, thick panels, spaced 24 in. OC. Second layer-1-5/8 in, long for 1/2 in, 5/8 in, thick panels, spaced 24 in. OC. Third layer-2-1/4 in, long for 1/2 in, thick	Item 5A.	for sound control. UNITED STATES GYPSUM CO Type AS	Last Updated on 2020-12-10
יי -רידע (P=	panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.	b. Steel Framing Members* — Used to attach furring channels (item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips	14 Land Button Chiles - Alles Charmer Free Har With Harry Park	The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.
	7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud	STUDCO BUILDING SYSTEMS RESILMOUNT Sound Isolation Clips Type A237 or A237R	11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to	UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading
łX, or, 3/4	with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A. 7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate	7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring	have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item SB) and optional at remaining stud locations. Required behind vertical joints.	manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2021 UL LLC"
s of wall	to Item 7, furring channels and Steel Framing Members as described below; a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max.	channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of	11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan	
th Item 3) e of Wall	24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.	No. 18 AWG galvanized steel wire Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.	head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L- 201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at	
Vertical red to rd secured	b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw	b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywell screw through the center hole. Furring channels are friction fitted	remaining stud locations.	
rd secured in the).	through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self- drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring	into clips. REGUPOL AMERICA — Type SonusClip	12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in, diam by max 0.125 in, thick lead discs compression fitted or adhered over steel screek heads or max 1/2 in, by 1-1/4 in, by max 0.125 in, thick lead tabs placed on gyrosum boards (Item 5B) underneath screek	
	channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).	7F. Steel Framing Members* (Optional on one or both sides, not shown, for single or double layer systems) Resilient	 screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". 	
red edges	78 Epaming Manhaut - (Onlined Mat Plane) - Land - Land - Land - Land	channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels	12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f,	
	7B. Framing Members [•] — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below; a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured	secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in, and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.	Grades "B, C or D".	
	to study as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.	b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and	13. Lead Batten Strips — (Not Shown, For Use With (tem 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan	
	b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each	secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC Type RC+ Assurance Clip	head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L- 201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at	
fwall rith Item	end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC Type Isomax		remaining stud locations. 14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit	
its I in, long	76. Framing Mambaret (Not Shows) (Optional on one as but state moto how to be the state	7G. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:	around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the	
trips strips,	7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in, OC	a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.	Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.	
ttom of ead	perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.	b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in.	spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033	
	b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in, OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in, minimum self-drilling, S-12 steel screw through the center	OC. Clips secured to studs with No. 8 x 1-1/2 in-minimum self-drilling, S-12 steel screw through the center hole, Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip	inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the	
ds (item	grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP		framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.	
8/4 in, thick OC in the	7D Steel Framing Memberst - (Ontional on one se beth alder and there is the set of the s	8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in, wide, embedded in first layer of compound over all joints of outer layer panels.	CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips	
ld and /8 in. thick ck panels or	7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured 	Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge. 9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the	* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada)	
First layer-	to studs as described in item b. Ends of adjoining channels overlapped 6 in, and tied together with double strand of	requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.	jurisdictions employing the UL or cUL Certification (such as Canada), respectively.	
11/15	12/15	https://q.ulprospector.com/en/profile?e=14979 13/15	https://iq.ulprospector.com/en/profile?e=14979 14/15	https://lq.ulprospector.com/en/profile?e=14979 15/15 ROJECT NAME:
	unut to C		12/9/24	HWY 42 STORE ALL
_		NN NYI LI	DRAWN BY: R. KEATH SCALE:	ROJECT ADDRESS:
Γ	BETCO, Inc.			HOLLY SPRINGS, NORTH CAROLINA
	228 Commerce Blvd. 0273	355	AS NOTED	F & S LAND DEVELOPMENT LLC. PROJECT NO.: NC24204
Ĺ	Statesville, NC 28625	Et Lip	APPROVED BY: 228 COMMERCE BLVD. SI STATESVILLE, NC 28625	HEET TITLE: DRAWING NUMBER: DRAWING NUMBER:
	Limited Engineering License # D-0140	SErun	STATESVILLE, NC 28625 (800) 654–7813	CS4 of 4
		REVISIONS		

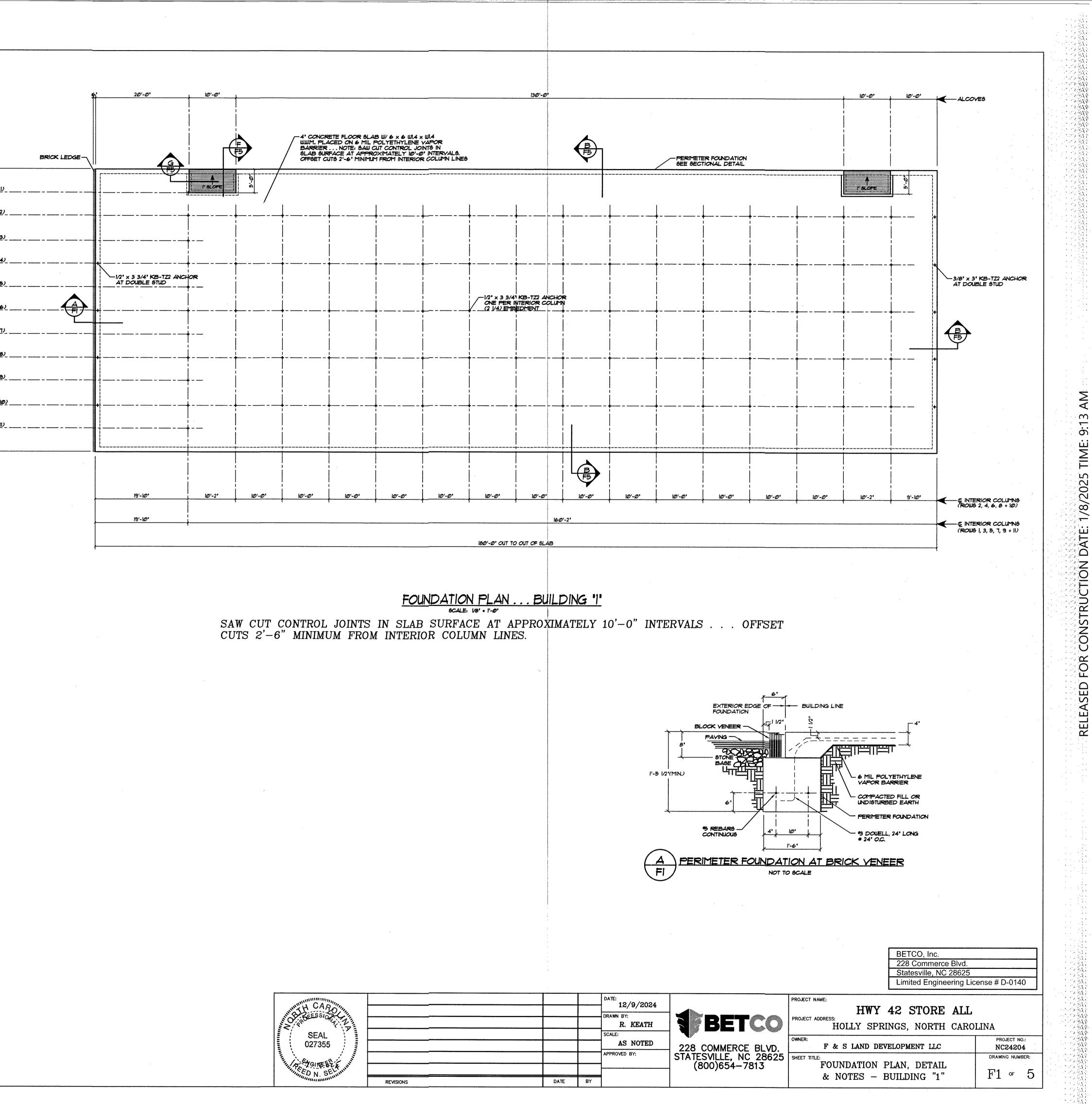
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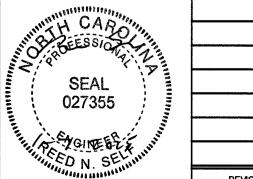
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	ACI 318	3 —	TABLE 19.3.1.	1
EXPOS	URE CA	ATEG	ORIES AND C	LASSES
CATEGORY	SEVERITY	CLASS	CONDITION	
F FREEZING AND THAWING	NOT APPLICABLE	FO	CONCRETE NOT EXPOSED TO FREEZING AND-THAWING CYCLES	<u>;</u>
S SULFATE			WATER-SOLUBLE SULFATE (SO4) IN SOIL, PERCENT BY WEIGHT	DISSOLVED SULFATE (SO4) IN WATER, ppm
	NOT APPLICABLE	S0	SO ₄ < 0.10	SO ₄ < 150
W REQUIRING LOW PERMEABILITY	NOT APPLICABLE	WO	CONCRETE DRY IN SERVICE, CONCRET WITH WATER AND LOW PERMEABILITY	
C CORROSION PROTECTION OF REINFORCEMENT	MODERATE	Ci	CONCRETE EXPOSED TO MOISTURE BU NOT TO EXTERNAL SOURCES OF CHLO	-
TO BELIEVE OTHER	WISE, ENGINEER SH	ALL BE NOT	BY ENGINEER. IF CONTRACTOR KNOWS IFIED IN WRITING PRIOR TO CONSTRUCT UIREMENTS FOR CONCRETE BY EXPOSU	on.

NOTE: KB-TZ2 ANCHORS ARE PROVIDED BY BETCO. EMBEDDED ANCHOR BOLTS IN SLAB ARE NOT REQUIRED BY BUYER.

NOTE TO OWNER / CONTRACTOR: DO NOT CUT SAW JOINTS ALONG COLUMN LINES. DOING SO WILL REDUCE THE STRUCTURAL CAPACITY OF THE BUILDING ANCHORAGE TO THE CONCRETE AND MAY RESULT IN ADDITIONAL MATERIAL AND LABOR CHARGES. SAW CUTS MUST BE OFFSET 2'-6" MINIMUM FROM COLUMN LINES.





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E FIRE BARRIER SIDE A ------

Exterior Columns

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9'-10"

9'-10'

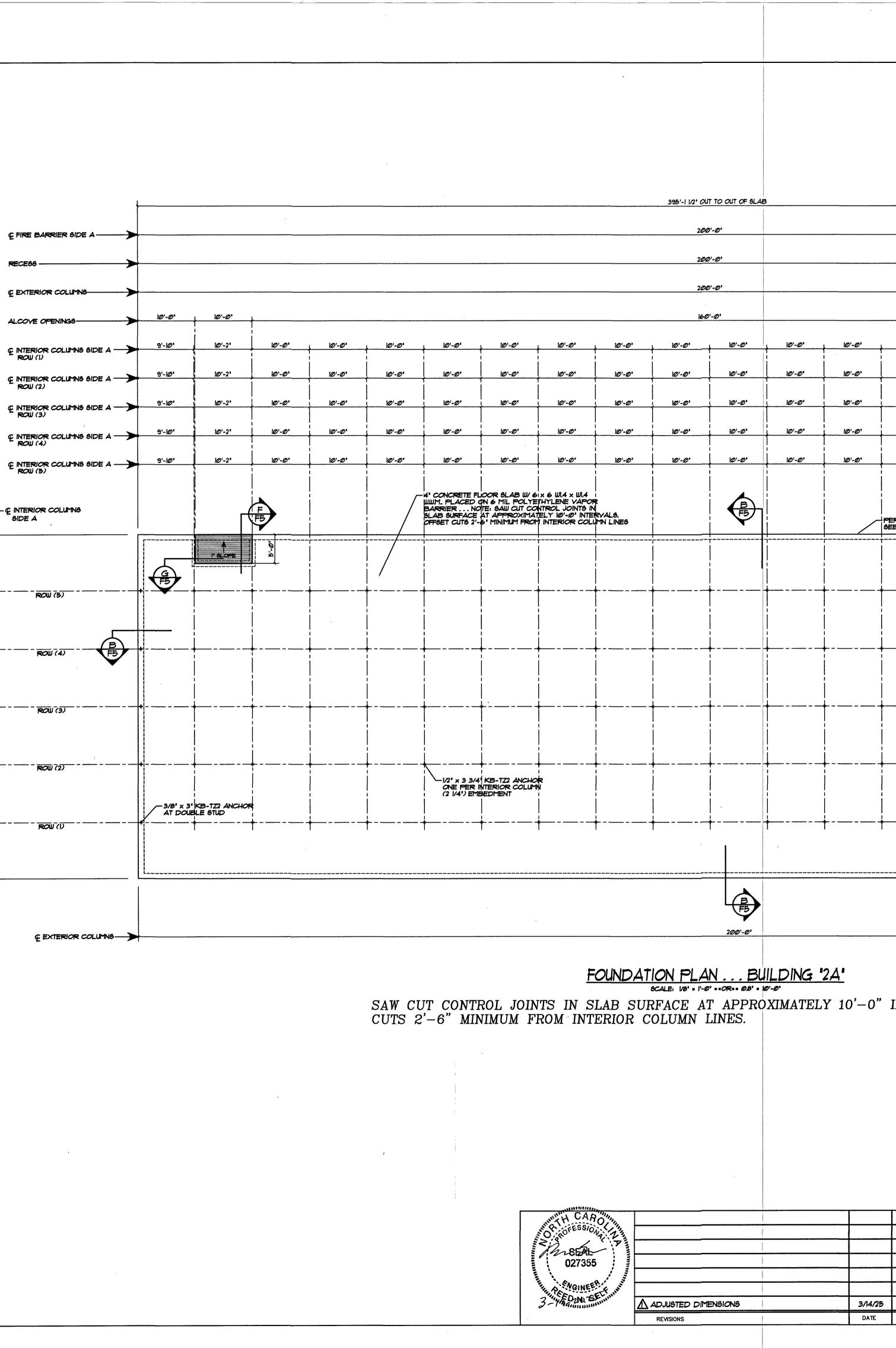
9'-10'

RECESS -----

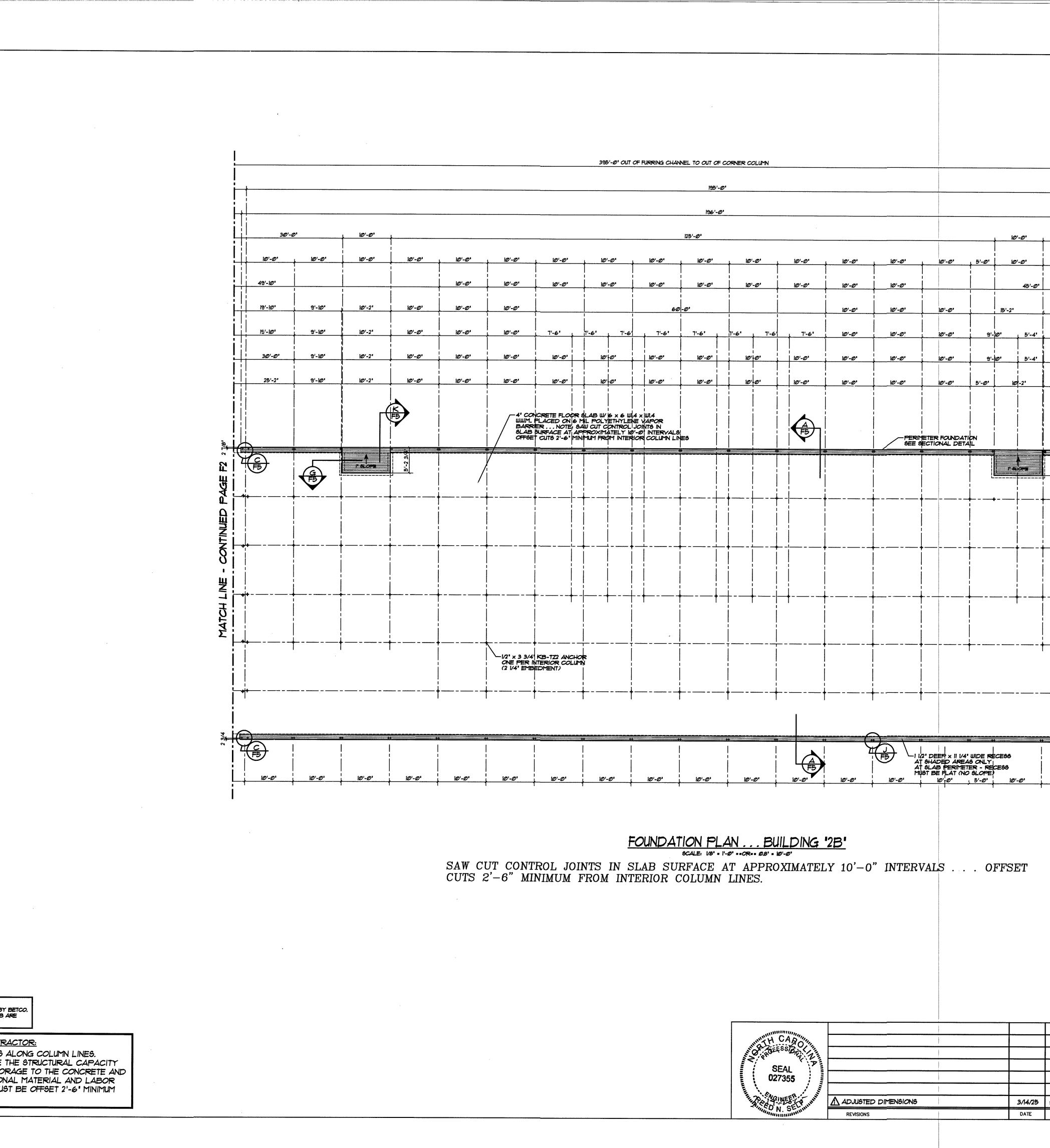
NOTE: KB-TZ2 ANCHORS ARE PROVIDED BY BETCO. EMBEDDED ANCHOR BOLTS IN SLAB ARE NOT REQUIRED BY BUYER.

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NOTE TO OWNER / CONTRACTOR: DO NOT CUT SAW JOINTS ALONG COLUMN LINES. DOING SO WILL REDUCE THE STRUCTURAL CAPACITY OF THE BUILDING ANCHORAGE TO THE CONCRETE AND MAY RESULT IN ADDITIONAL MATERIAL AND LABOR CHARGES. SAW CUTS MUST BE OFFSET 2'-6" MINIMUM FROM COLUMN LINES.



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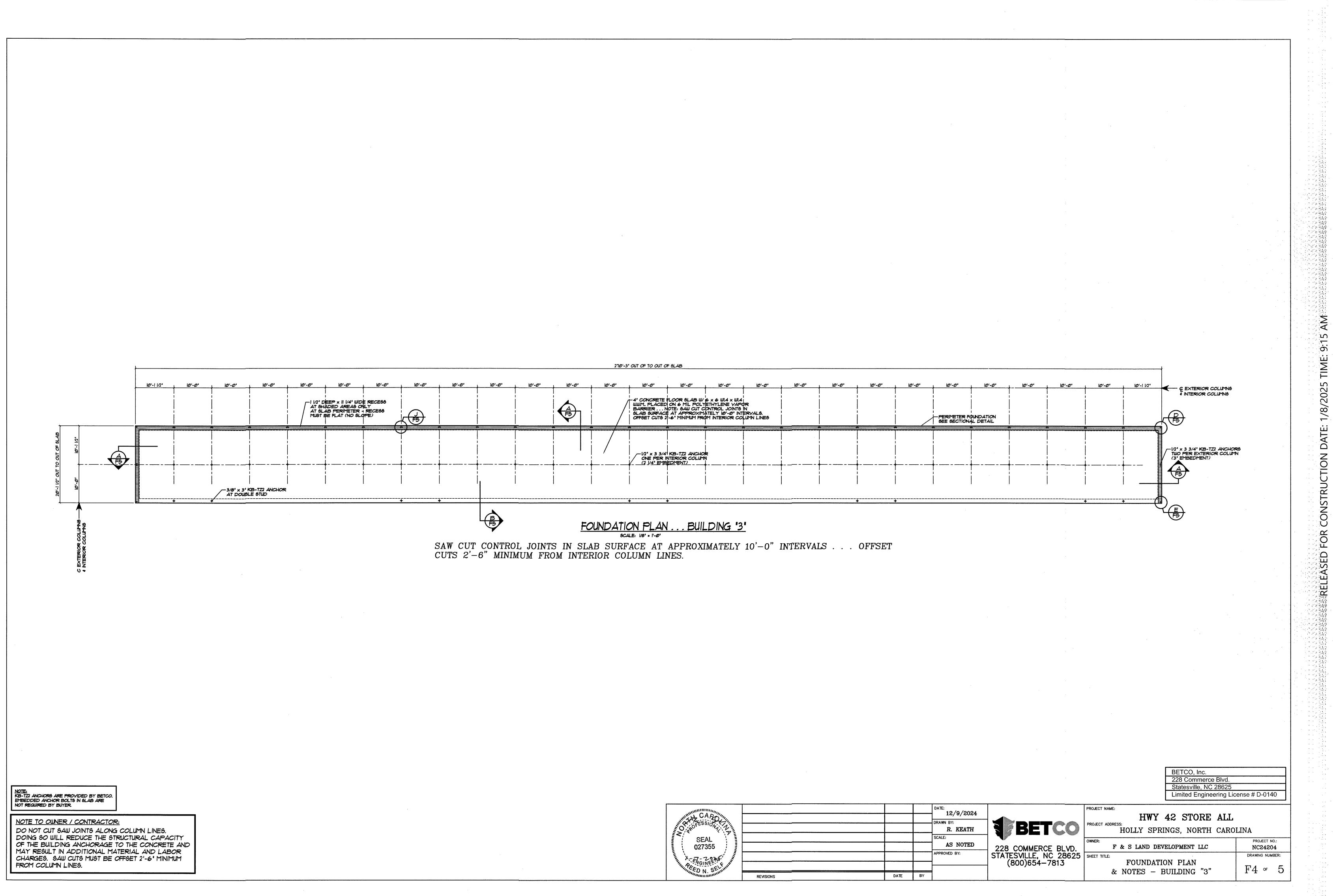
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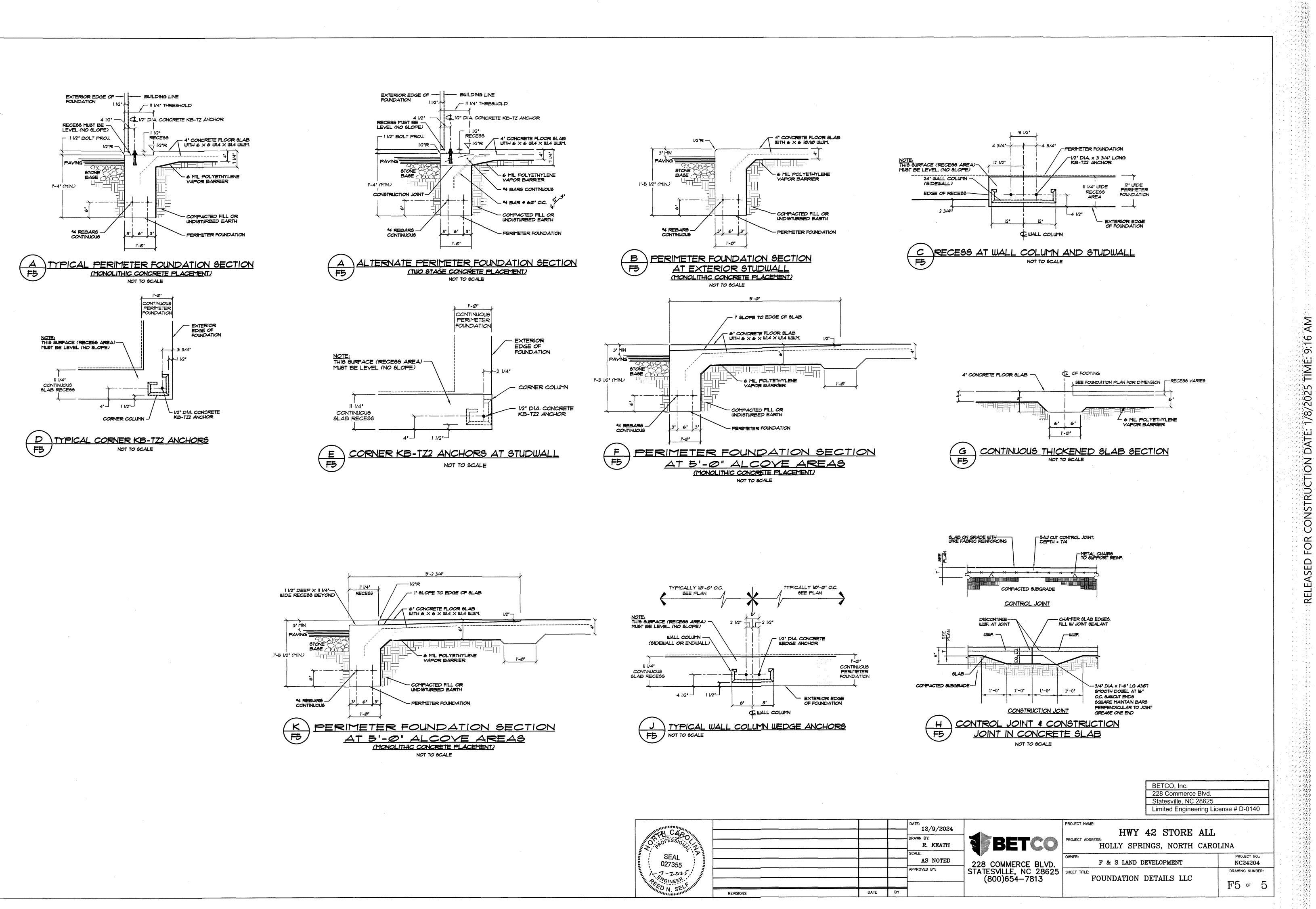
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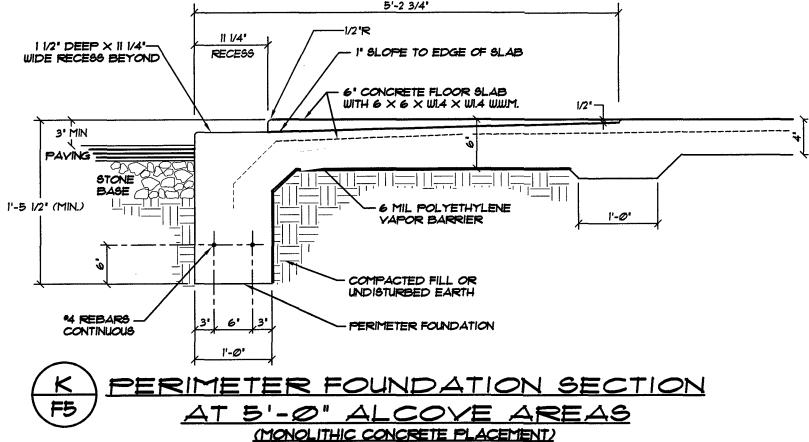
DO NOT CUT SAW JOINTS ALONG COLUMN LINES. DOING SO WILL REDUCE THE STRUCTURAL CAPACITY OF THE BUILDING ANCHORAGE TO THE CONCRETE AND MAY RESULT IN ADDITIONAL MATERIAL AND LABOR CHARGES. SAW CUTS MUST BE OFFSET 2'-6' MINIMUM FROM COLUMN LINES.

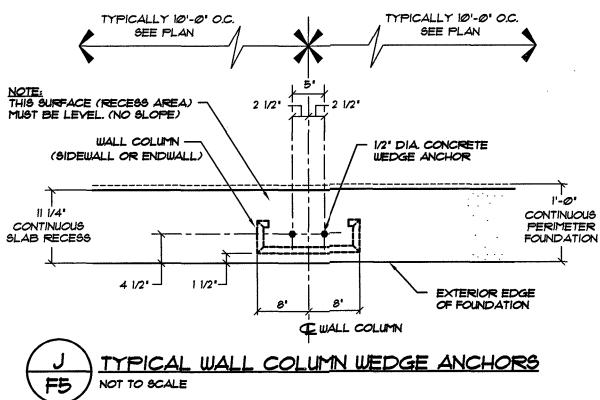
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I@'-@' I@'-@' DATE: 12/9/2024 DRAWN BY: R. KEATH SCALE: AS NOTED APPROVED BY: KEM BY BY	NOTE: FIELD LOCATE 3 HOUR FIRE E 228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813	PROJECT NAME: HWY 42 PROJECT ADDRESS: HOLLY SPRINC	PLAN	

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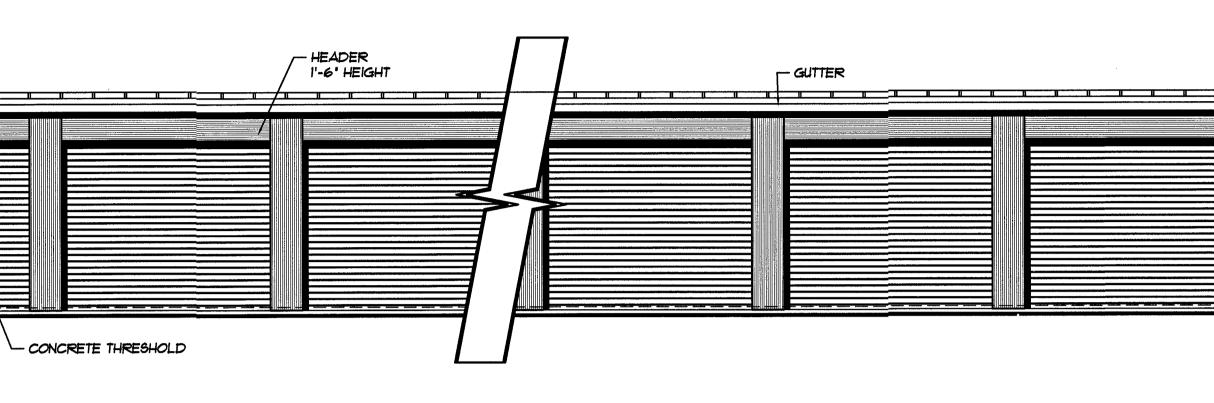




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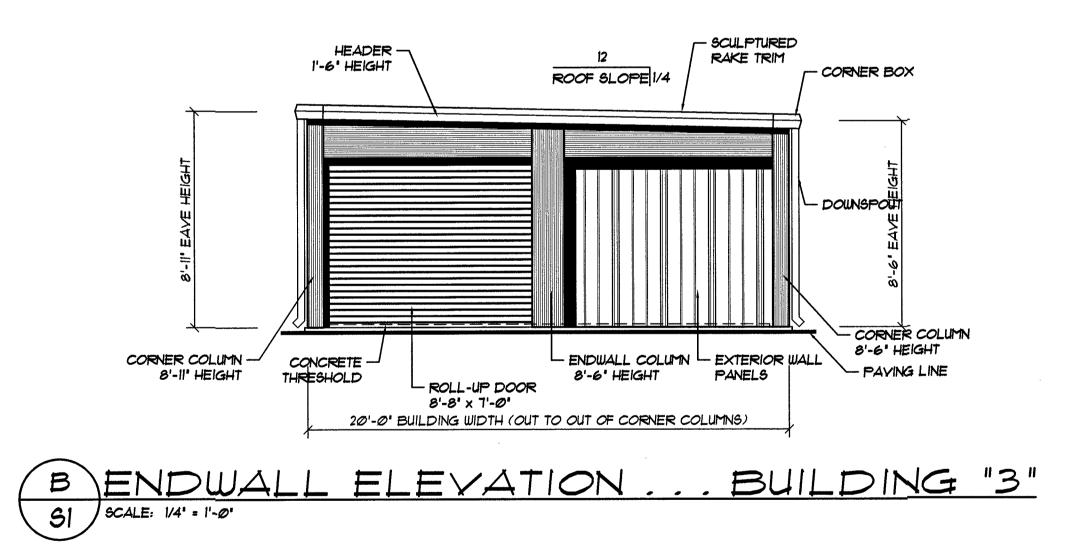
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- HIGH PROFILE STEEL ROOF PANELS (24ga.)



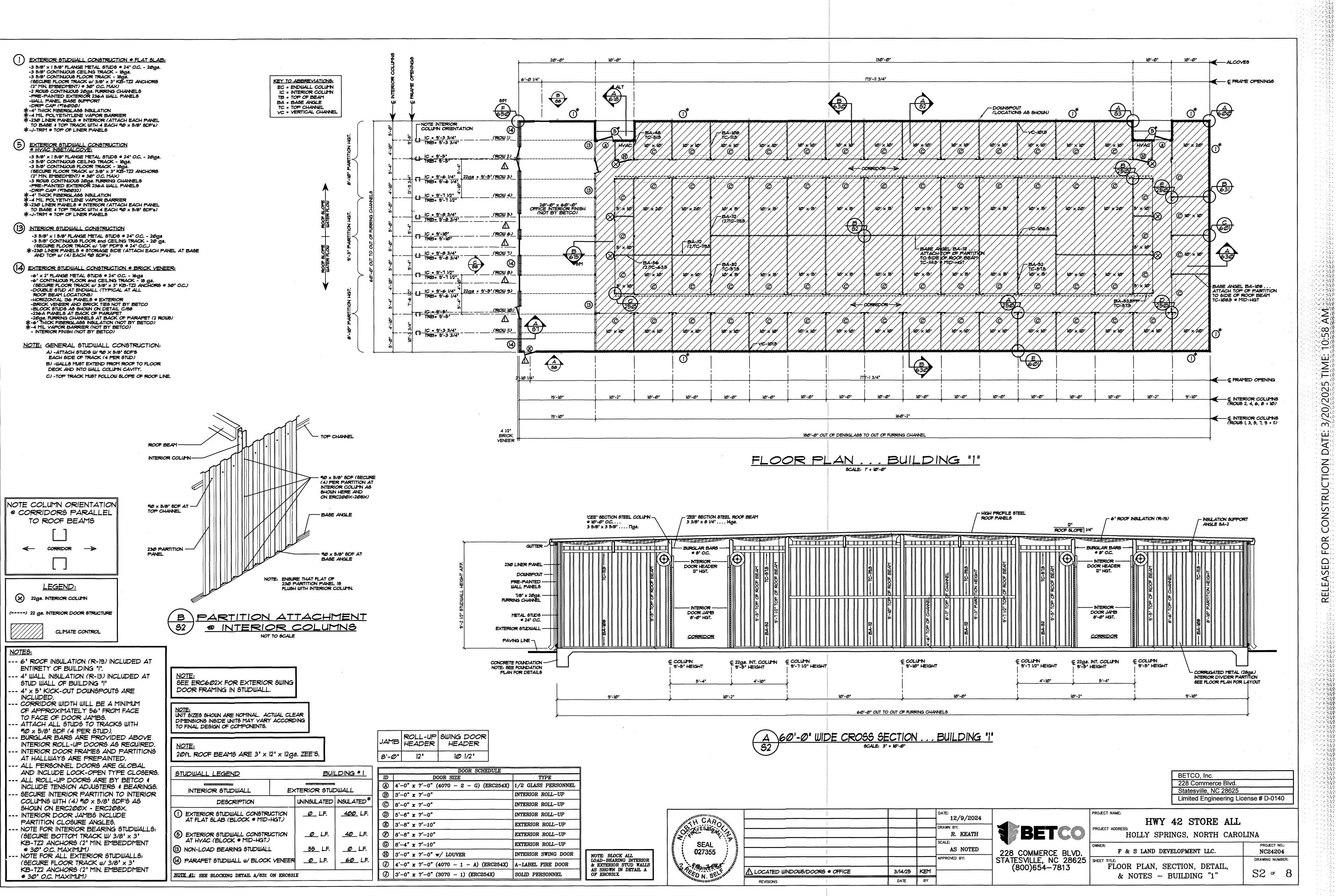
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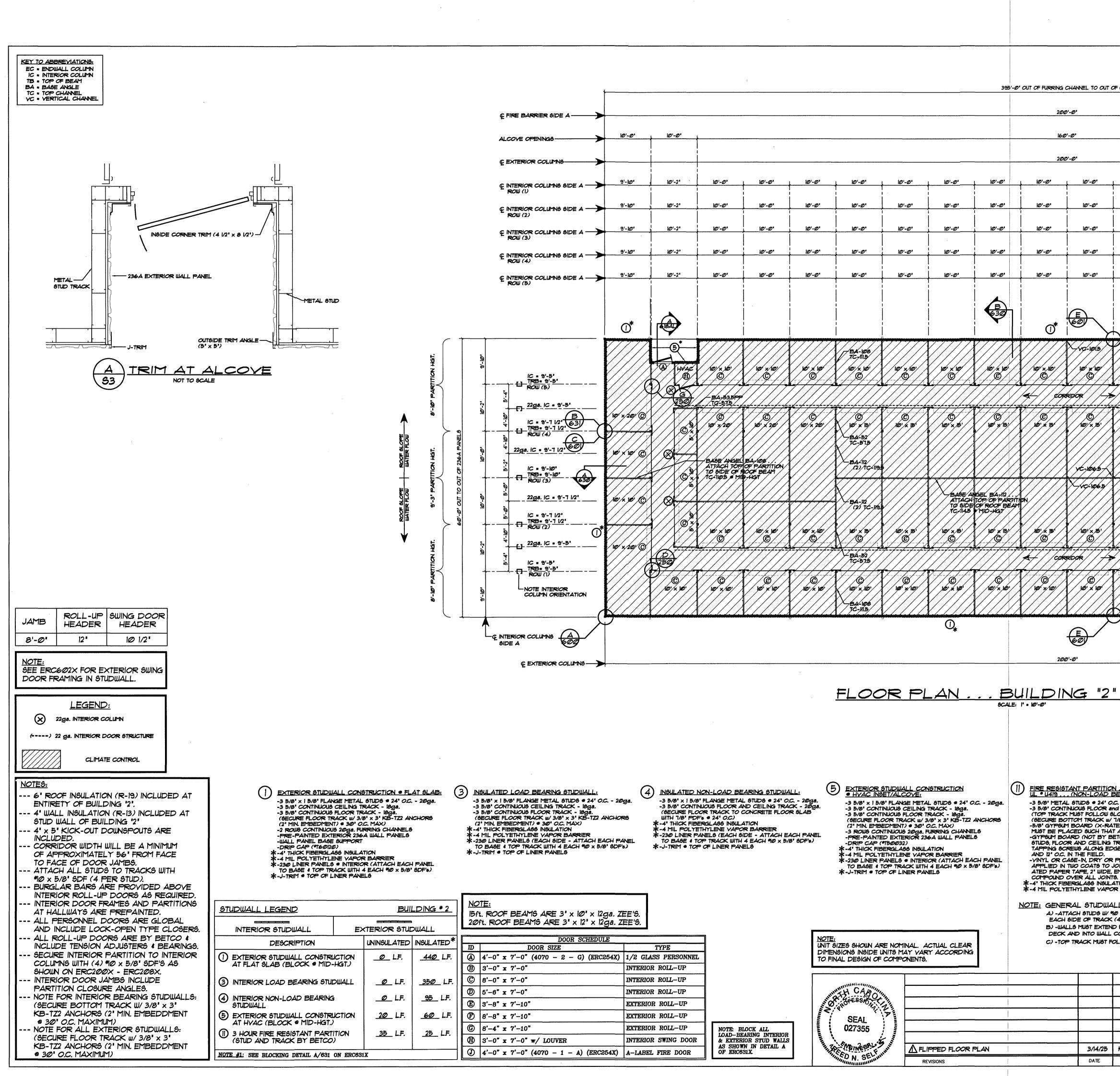


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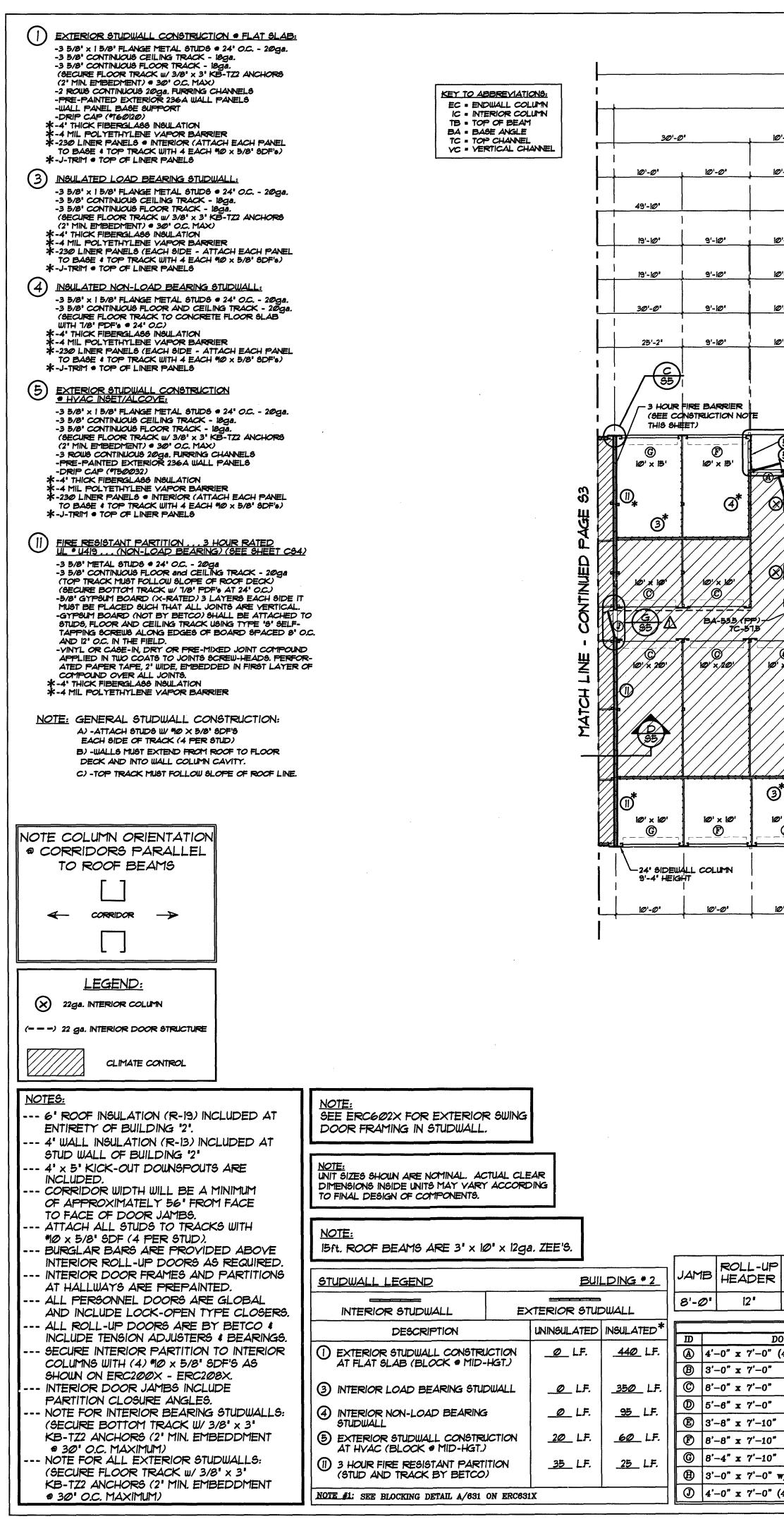
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DATE: 12/9/24 DRAWN BY: R. KEATH	BETCO	PROJECT NAME: HWY 42 STORE ALL PROJECT ADDRESS: HOLLY SPRINGS, NORTH CAR	
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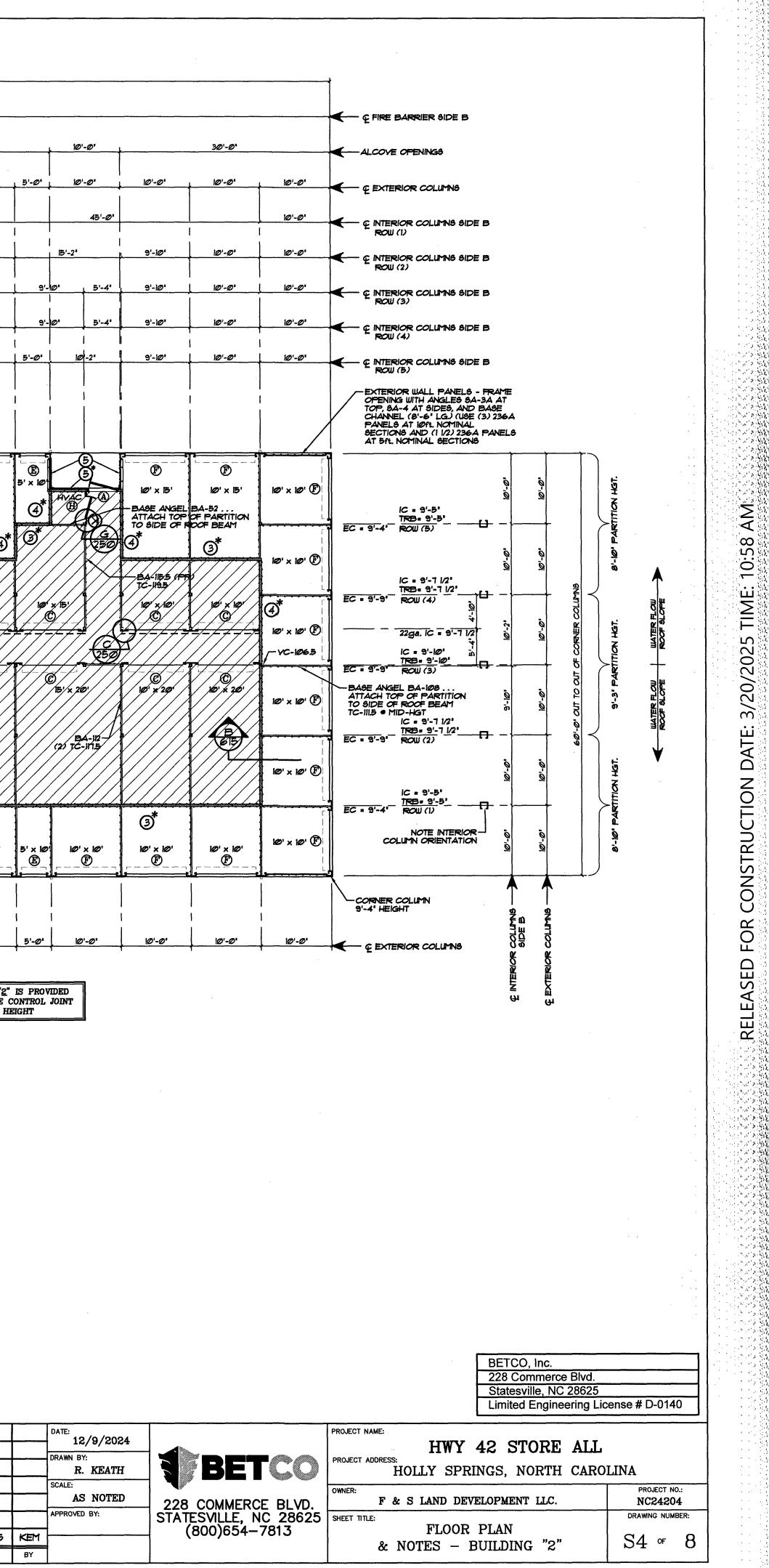
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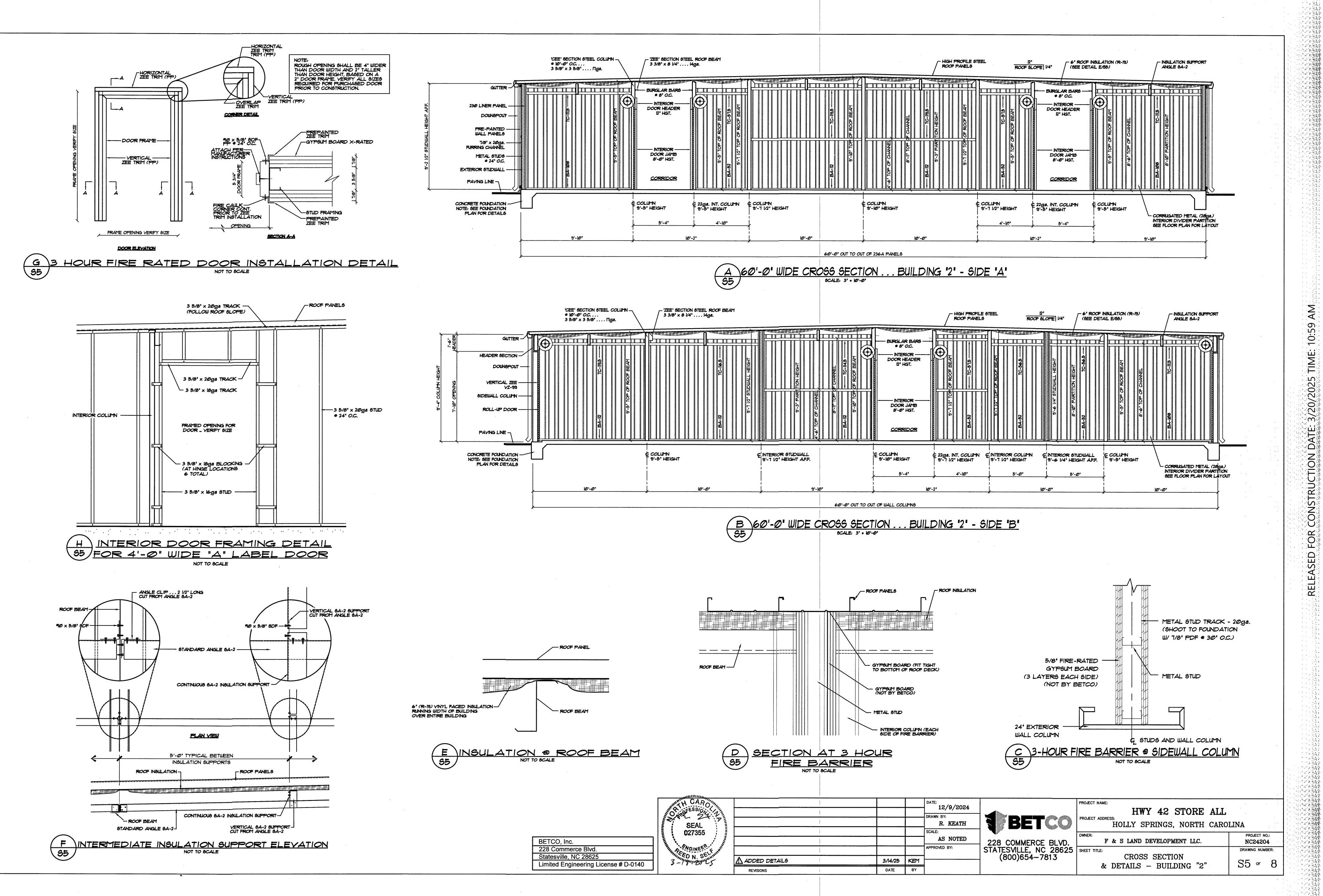
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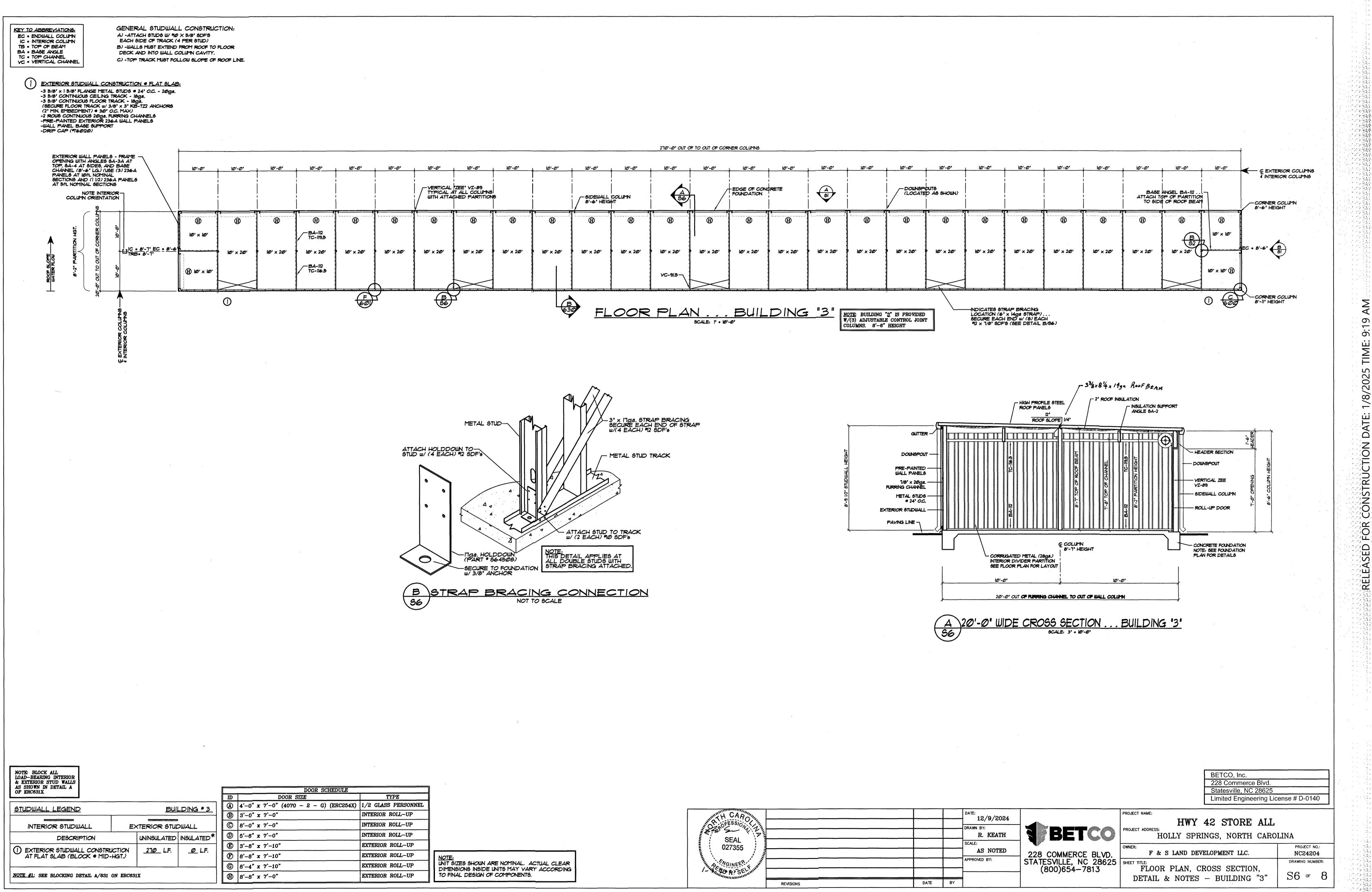


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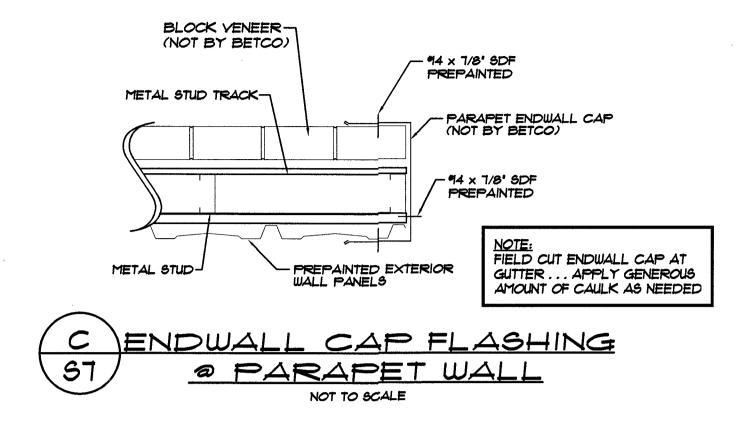
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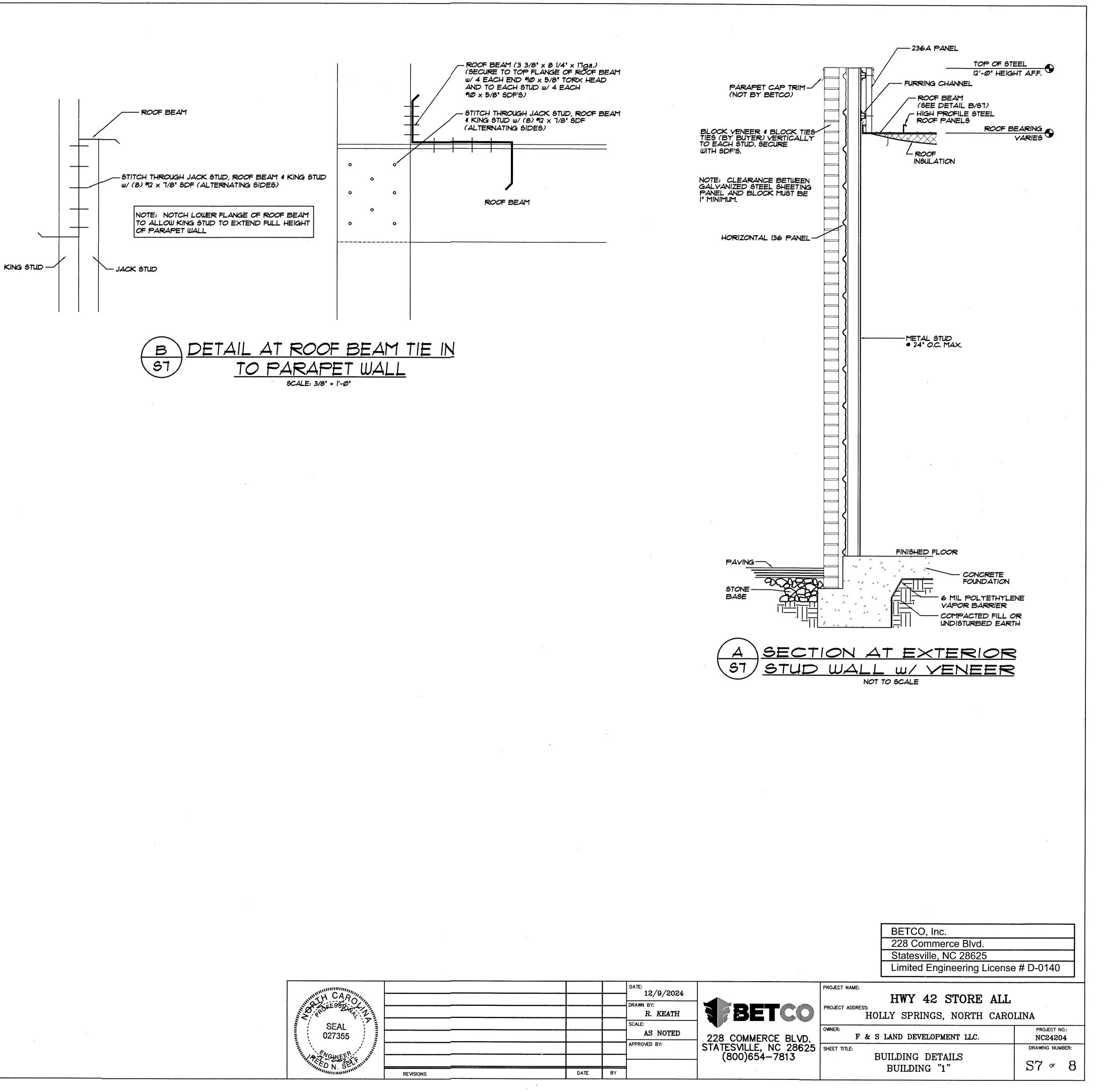
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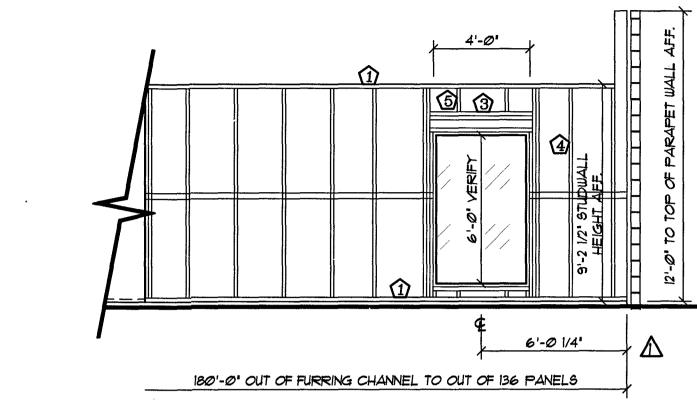
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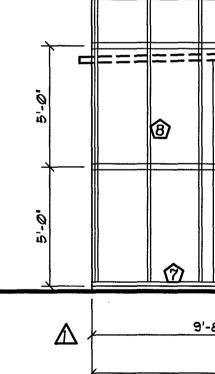


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9:19 AM TIME: 1/8/2025 DATE: lion RELEASED FOR CONSTRUC



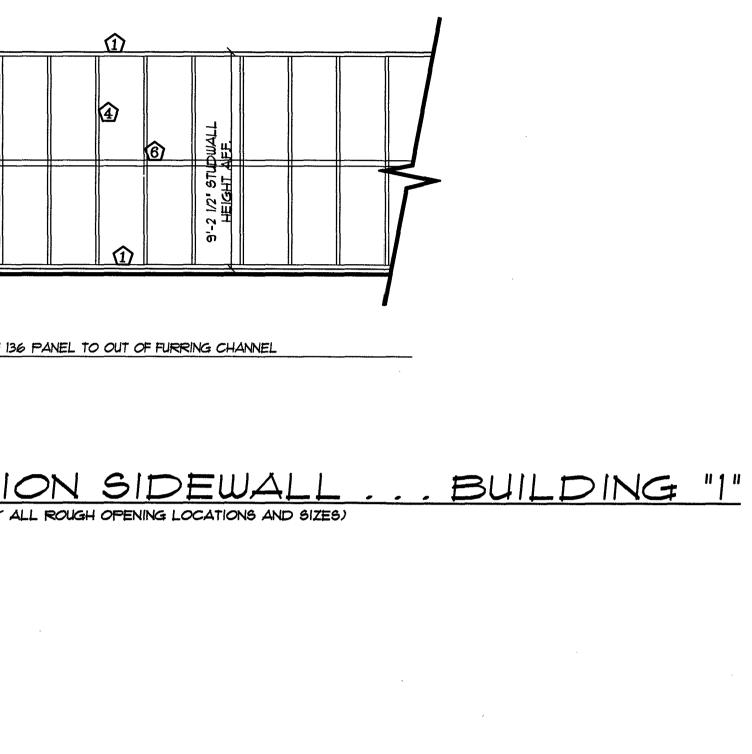


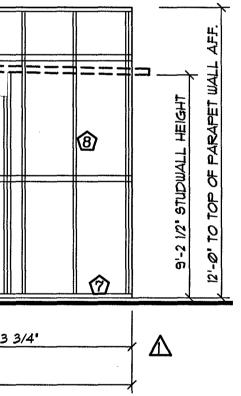


METAL STUD TRACK (3 5/8' × 11/4' LEG × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE 2 EACH - METAL STUD AT EACH ROOF BEAM LOCATION - SIMILAR TO C/60IX. DH-1 - DOUBLE CEE BOXED HEADER - 6' (SEE ERC602X) w/ 16ga STUDS. USE 14GA AT OPENINGS OVER 5'-0' WIDE. 1 EACH - METAL STUD (3 5/8' × 15/8' × 18ga) METAL STUD TRACK ABOVE HEADER (3 5/8' × 11/4' × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE - FASTEN TO TOP OF DH-1 WITH 2 EACH *12 × 17/8' SDF AT 12' O.C. STRAP BRACING FOR BLOCKING (SEE DETAIL 'A' ON ERC63IX) METAL STUD TRACK (6' × 11/4' LEG × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE 1 EACH - METAL STUD (6' × 2' × 16ga) METAL STUD TRACK ABOVE HEADER (6' × 11/4' × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE METAL STUD TRACK ABOVE HEADER (6' × 11/4' × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE METAL STUD TRACK ABOVE HEADER (6' × 11/4' × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE METAL STUD TRACK ABOVE HEADER (6' × 11/4' × 18ga) FASTEN TO EACH METAL STUD WITH 2 EACH *10 × 5/8' SDF PER FLANGE

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		TO TOP OF PARAPET WALL AFF.		5
		12'-@' 70	A 2'-10 1/4'	OUT OF 136
. BUILDING "1"	A 58	<u>=RAMING</u> BCALE: 1/4' = 1'-0'	ELEVA	
			3'-2' DOOR 3 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	
-8' -8' 60'-0' OUT TO OU	¢	¢	6 1/2' ¢	10'-3 3
C FRAMING ELEVATION 58 SCALE: 1/4" = 1'-0' (NOTE: VERIFY ALL R	N ENDUA OUGH OPENING LOCATION		BUILDIN	NG
	SEAL 027355			
	N. SELTING	LOCATED WINDOWS/D REVISIONS	DOORS & OFFICE	3/14/25 Date





"1"

					BETCO, Inc. 228 Commerce Blvd. Statesville, NC 28625 Limited Engineering Lice	ense # D-0140	
		DATE: 12/9/2024 DRAWN BY: R. KEATH	BETCO	PROJECT ADDRESS:	42 STORE ALL NGS, NORTH CAROI	LINA	
		SCALE: AS NOTED	228 COMMERCE BLVD.	OWNER: F & S LAND DEVI	ELOPMENT LLC.	PROJECT NO.: NC24204	
5	KEM	APPROVED BY:	STATESVILLE, NC 28625 (800)654-7813		RAMING ELEVATIONS		
	BY			BUILDIN	IG "1"	S8 º 8	

RELEASED FOR CONSTRUCTION DATE: 3/20/2025 TIME: 11:00 AM

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