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TIRADO TRUCK REPAIR GARAGE
US 421 SOUTH, HARNETT COUNTY, NC

BUILDING DEPARTMENT:
HARNETT COUNTY
PLANNING & INSPECTIONS DEPARTMENT
420 MCKINNEY PARKWAY
LILLINGTON, NC 27546
910-893-7525

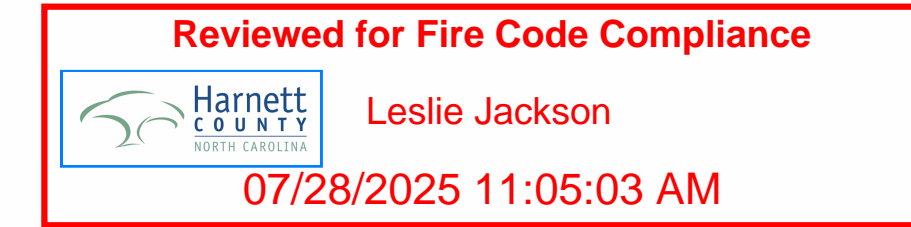
LUIS TIRADO
3577 OLD US 421
LILLINGTON, NC 27546
919-648-3999

APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:	
BUILDING	2018 NC BUILDING CODE
PLUMBING	2018 NC PLUMBING CODE
MECHANICAL	2018 NC MECHANICAL CODE
ELECTRICAL	2020 NATIONAL ELECTRICAL CODE (NFPA-70)
FIRE PREVENTION	2018 NC FIRE CODE
ENERGY	2018 NC ENERGY CONSERVATION CODE
ACCESSIBILITY	ICC A117.1-2009 AND THE AMERICANS WITH DISABILITIES ACT (ADAAG) 2018 NC BUILDING CODE CHAPTER 11

JENKINS CONSULTING ENGINEERS, P.A.
OFFICE in EUREKA SPRINGS, NC
KELLY J. DODSON
BUDDY JENKINS
1606 MCARTHUR ROAD
FAYETTEVILLE, NC 28311-1002
910-822-1724

TBD

THE PROJECT SCOPE IS TO CONSTRUCT A NEW BUILDING TO BE USED AS A REPAIR GARAGE.



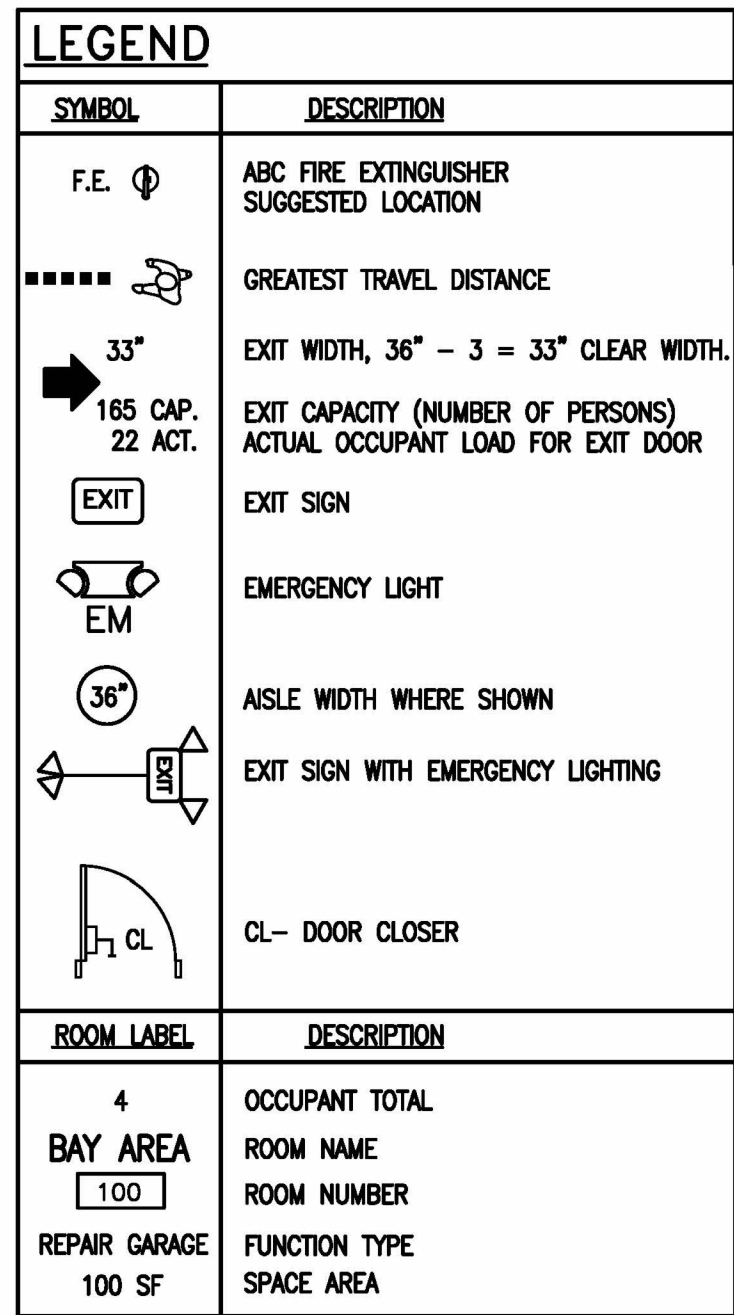
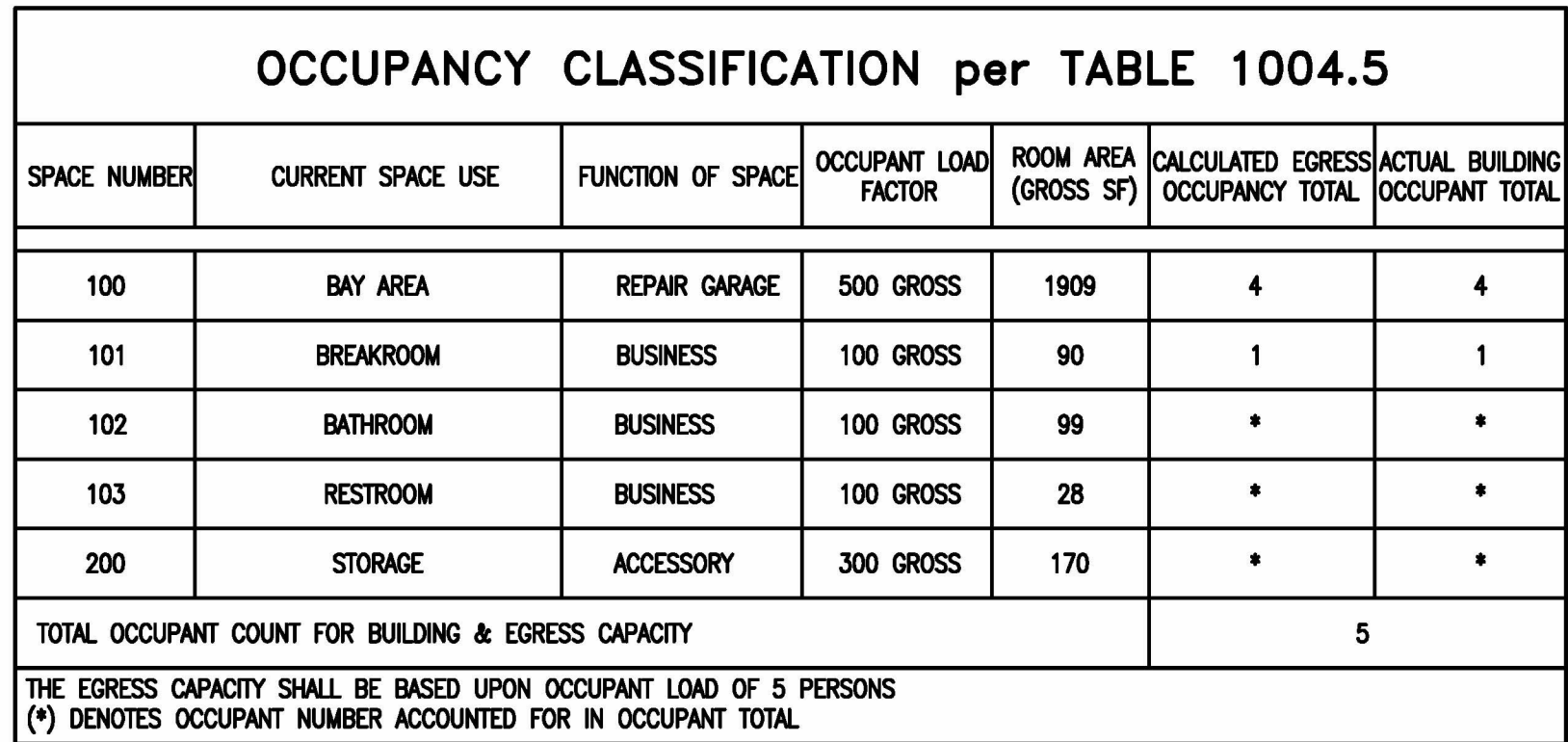
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PROJECT #:	BT
DATE:	2025-04-02.2
	10 JULY 2025

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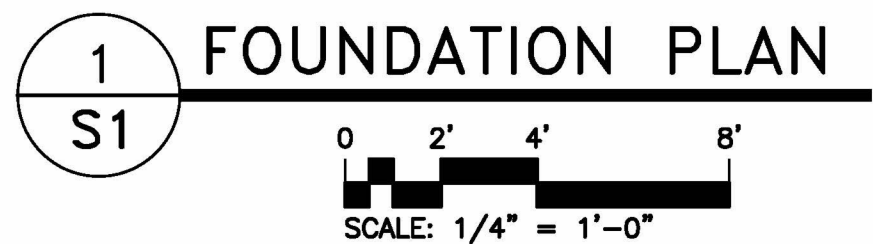
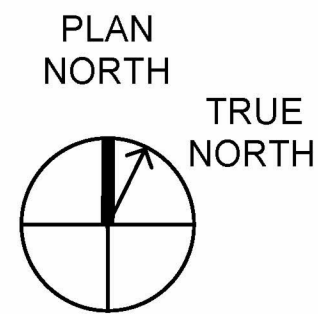
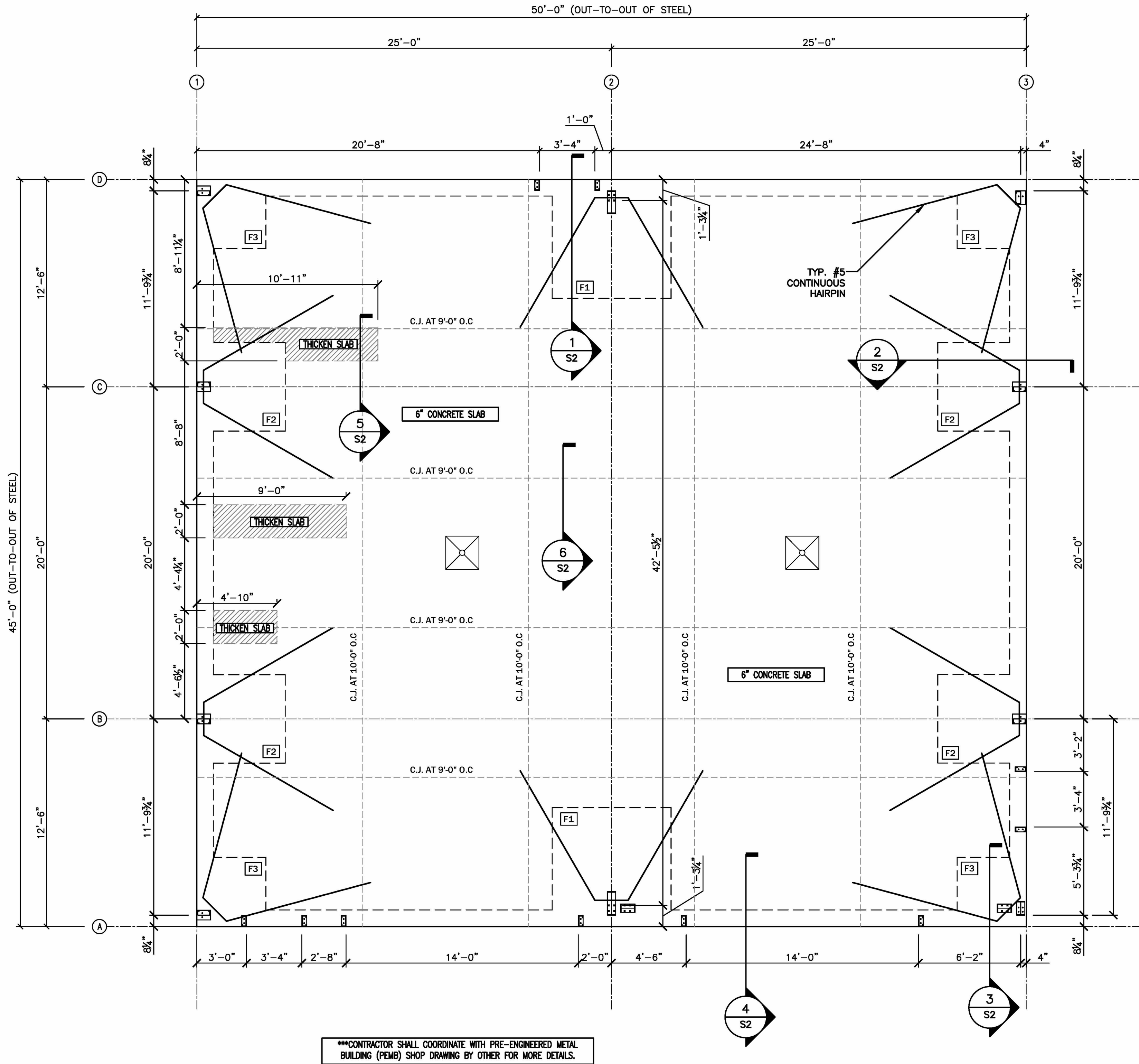
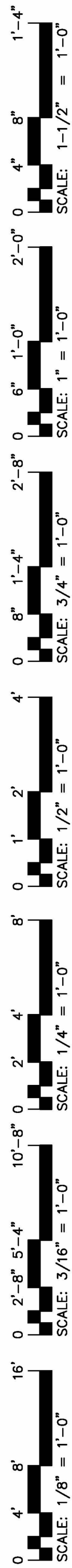
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07/10/25	FINAL FOR CONS.

IRADO TRUCK SHOP
US 421 SOUTH, HARNETT COUNTY, NC
SHEET:
COVER & INDEX TO DRAWINGS

CS



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		<div style="font-size: 0.7em;">OFFICE IN EUREKA SPRINGS, NORTH CAROLINA 1008 MCARTHUR RD. EUREKA SPRINGS, NC 28311-1002 910.822.1724</div>																
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<div>DESIGNED / CHECKED BY: KJD</div>		<div>DRAWN BY: BT</div>																
<div>PROJECT #: 2025-04-02.2</div>		<div>DATE: 2025-04-02.2</div>																
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<div>OWNER/TENANT: LS TIRADO</div>		<div>CONTRACTOR/BUILDER: TBD</div>																
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A	07/10/25	FINAL FOR CON																
<div>PROJECT: TIRADO TRUCK SHOP</div>																		
<div>US 421 SOUTH, HARNETT COUNTY, NC</div>																		
<div>SHEET: BUILDING LIFE SAFETY - EGRESS PLAN</div>																		
<div style="font-size: 2em; font-weight: bold; margin: 0;">LS</div>																		



FOOTING SCHEDULE				
TAG	LENGTH	WIDTH	DEPTH	REINFORCING
F1	7'-2"	7'-2"	2'-0"	(8) #6 ALONG LENGTH T & B (8) #6 ALONG WIDTH T & B
F2	5'-4"	5'-4"	2'-0"	(6) #6 ALONG LENGTH T & B (6) #6 ALONG WIDTH T & B
F3	4'-2"	4'-2"	2'-0"	(5) #6 ALONG LENGTH T & B (5) #6 ALONG WIDTH T & B

TIRADO TRUCK SHOP
US 421 SOUTH, HARNETT COUNTY, NC

FOUNDATION PLAN

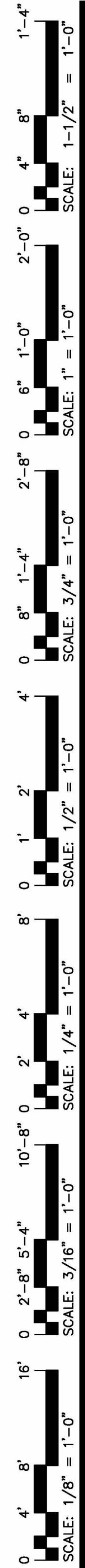
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DRAWN BY:	BT
PROJECT #:	2025-04-02.2
DATE:	10 JULY 2025

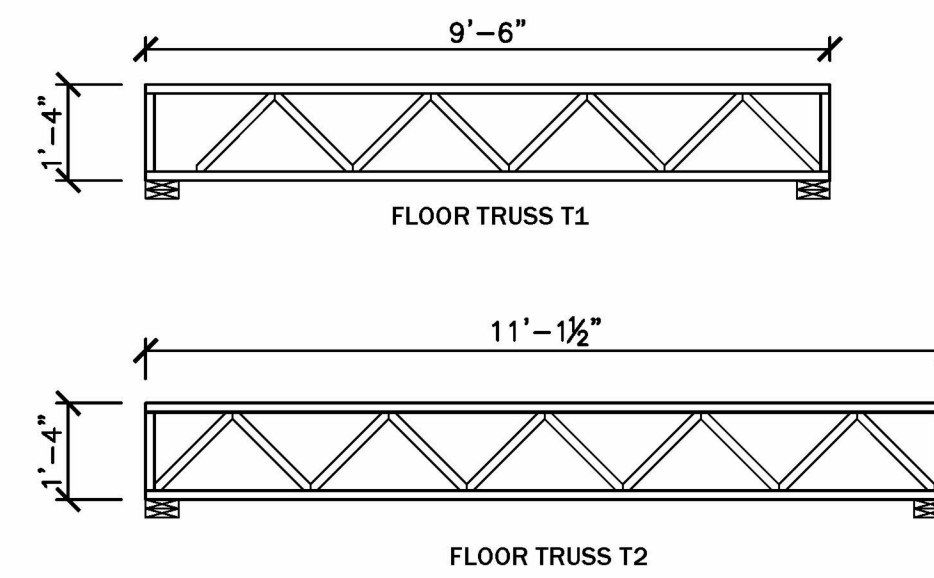
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PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY	LUIS TIRADO
FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION	3077 OLD US 421 LILLINGTON, NC 27446
CONTRACTOR/BUILDER:	TBD

REV	DATE	DESCRIPTION
1	07/10/25	FINAL FOR CONSTRUCTION





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 Plotted by: boot
 Plotted Date: Jul 10, 2025 - 10:56am



***NOTE: THESE TRUSS PROFILES ARE ONLY DIAGRAMMATIC, ONLY FOR BASIS OF DESIGN. CONTRACTOR SHALL COORDINATE WITH TRUSS MANUFACTURER SHOP DRAWING FOR SPECIFIC TRUSS PROFILE AND MANUFACTURER'S REQUIREMENT.

DOUBLE TOP PLATE

CRIPPLE STUD

NON-LOAD BEARING HEADER

KING STUD

JACK STUD

PER PLAN

P.T. 2X4 BOTTOM PLATE WITH 3" POWDER ACTUATED FASTENER TO CONCRETE @ 48" O.C.

JENKINS
CONSULTING ENGINEERS, PA
OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
1606 MCARTHUR RD.
FAVETTEVILLE, NC 28311-1002
910.222.1724



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DRAWN BY:	BT
PROJECT #:	2025-04-02.2
DATE:	10 JULY 2025

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PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION

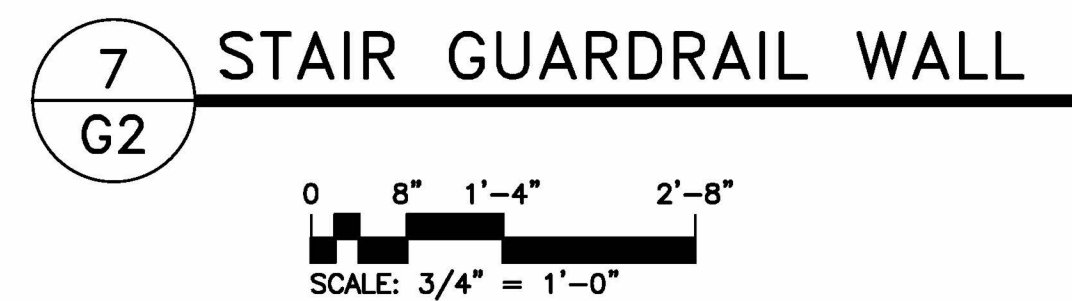
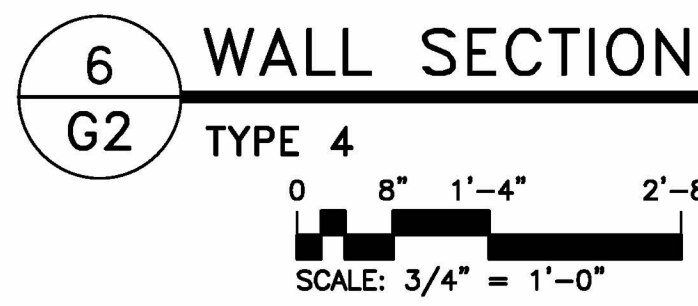
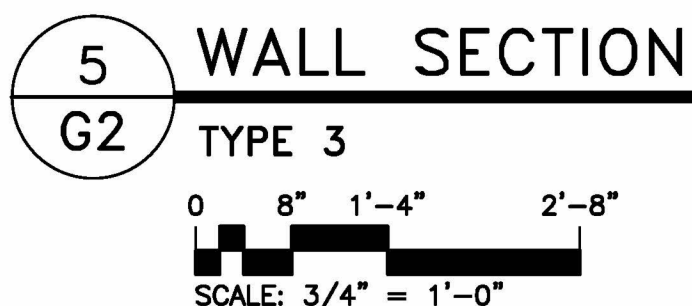
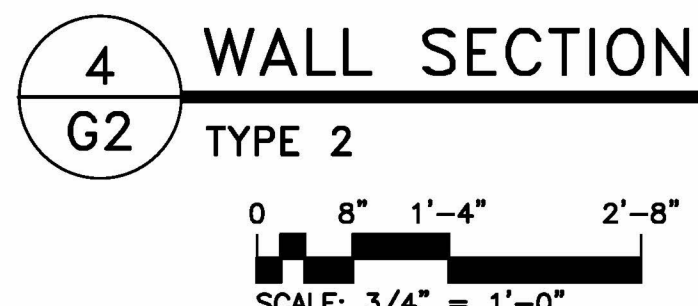
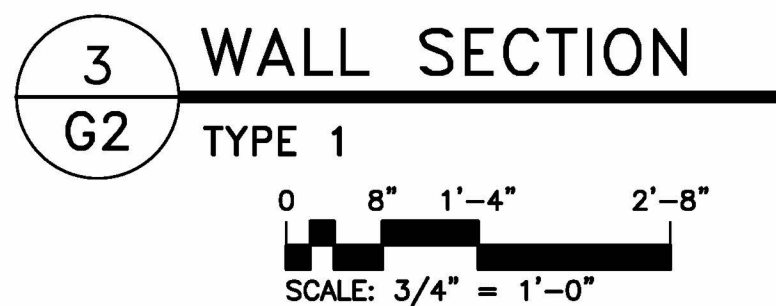
OWNER/TENANT:
LUIS TIRADO
3577 OLD US 421 LITTLETON, NC 27546

CONTRACTOR/BUILDER:
TBD
TBD

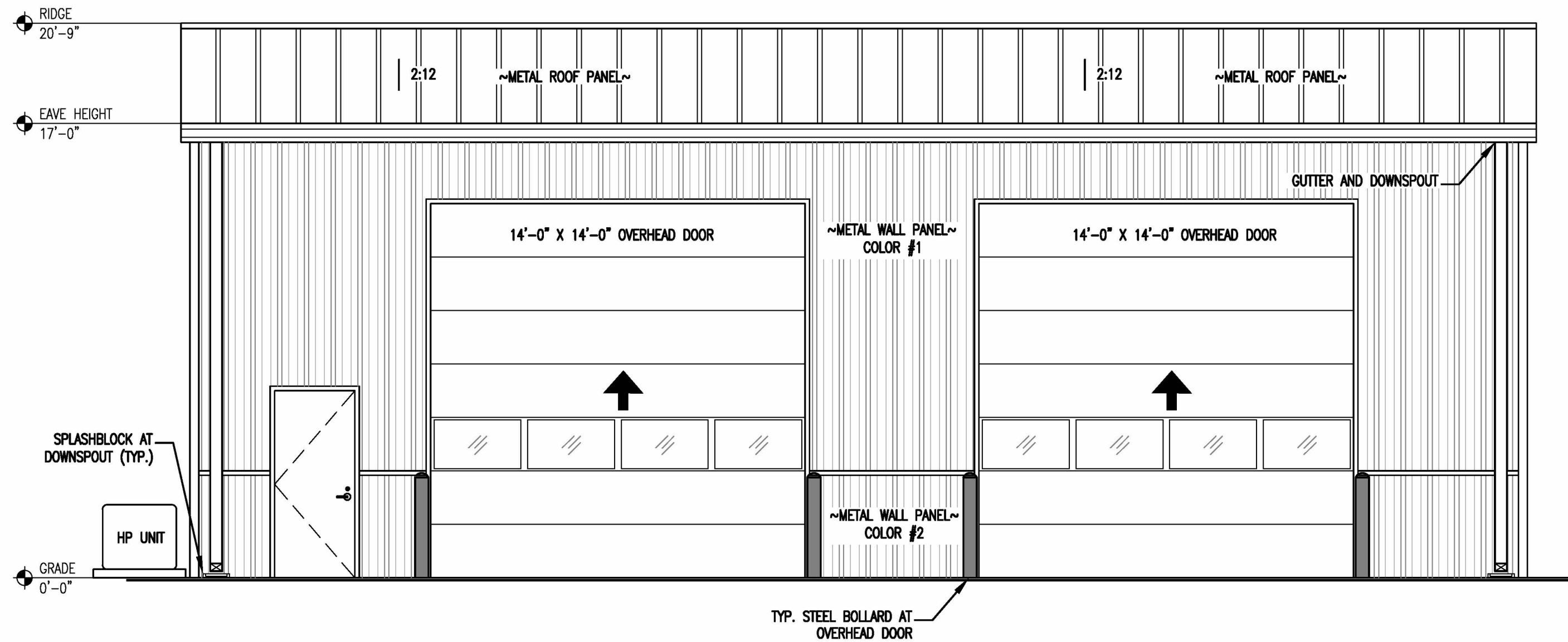
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△	07/10/25	FINAL FOR CONS

PROJECT: ***TIRADO TRUCK SHOP***
US 421 SOUTH, HARNETT COUNTY, NC
SHEET: **FRAMING PLAN AND DETAILS**

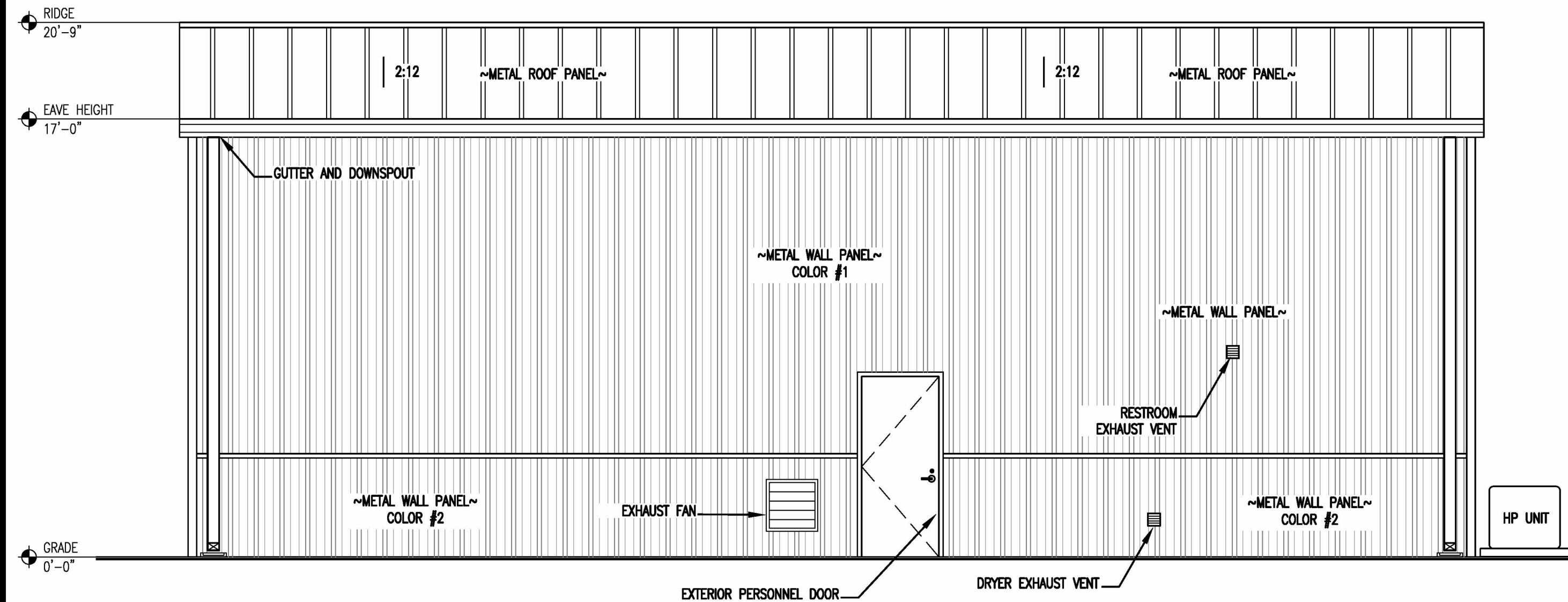
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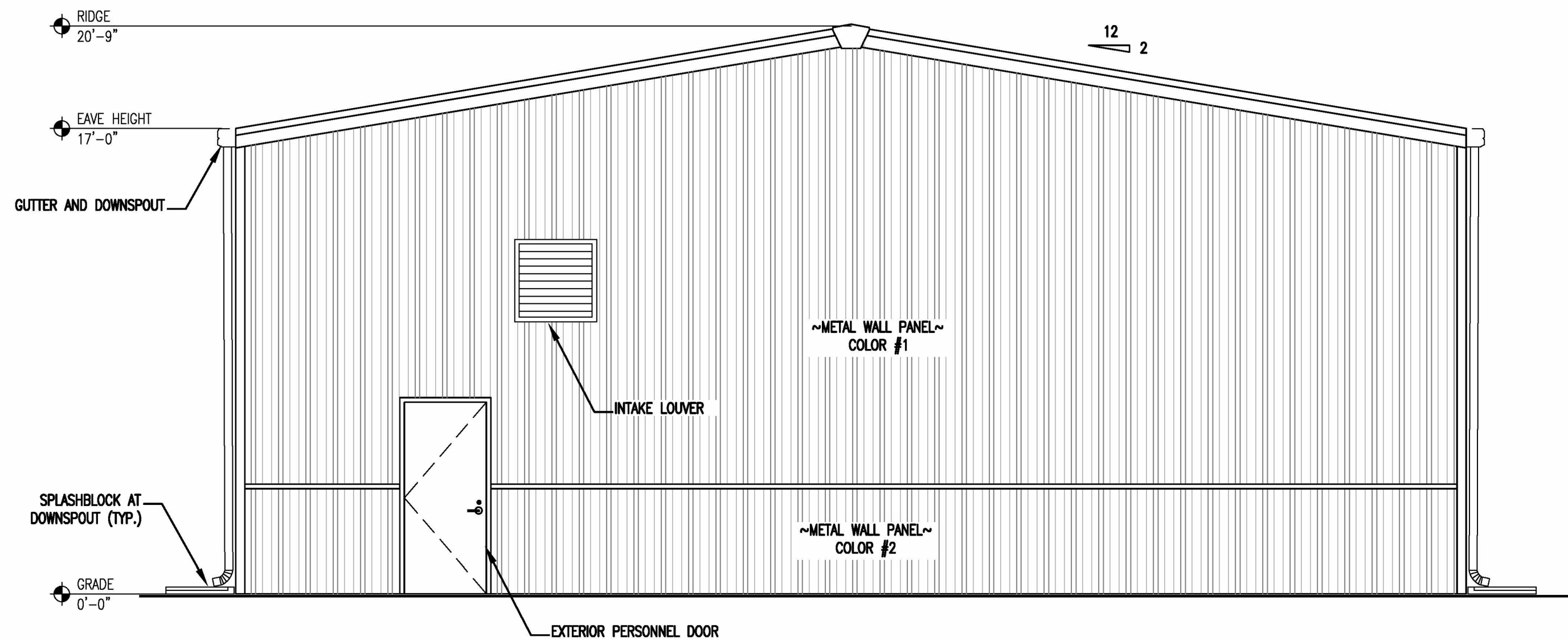
1'-4"
1'-0"
8"
2'-0"
0
4"
1'-1/2"
SCALE: 1'-1/2" = 1'-0"
2'-8"
0
4"
1'-4"
0
8"
1'-0"
SCALE: 3/4" = 1'-0"
4'
0
2'
1'-0"
SCALE: 1/2" = 1'-0"
8'
0
4'
1'-0"
SCALE: 1/4" = 1'-0"
10'-8"
0
2'-8"
5'-4"
16'
0
4'
8"
SCALE: 1/8" = 1'-0"



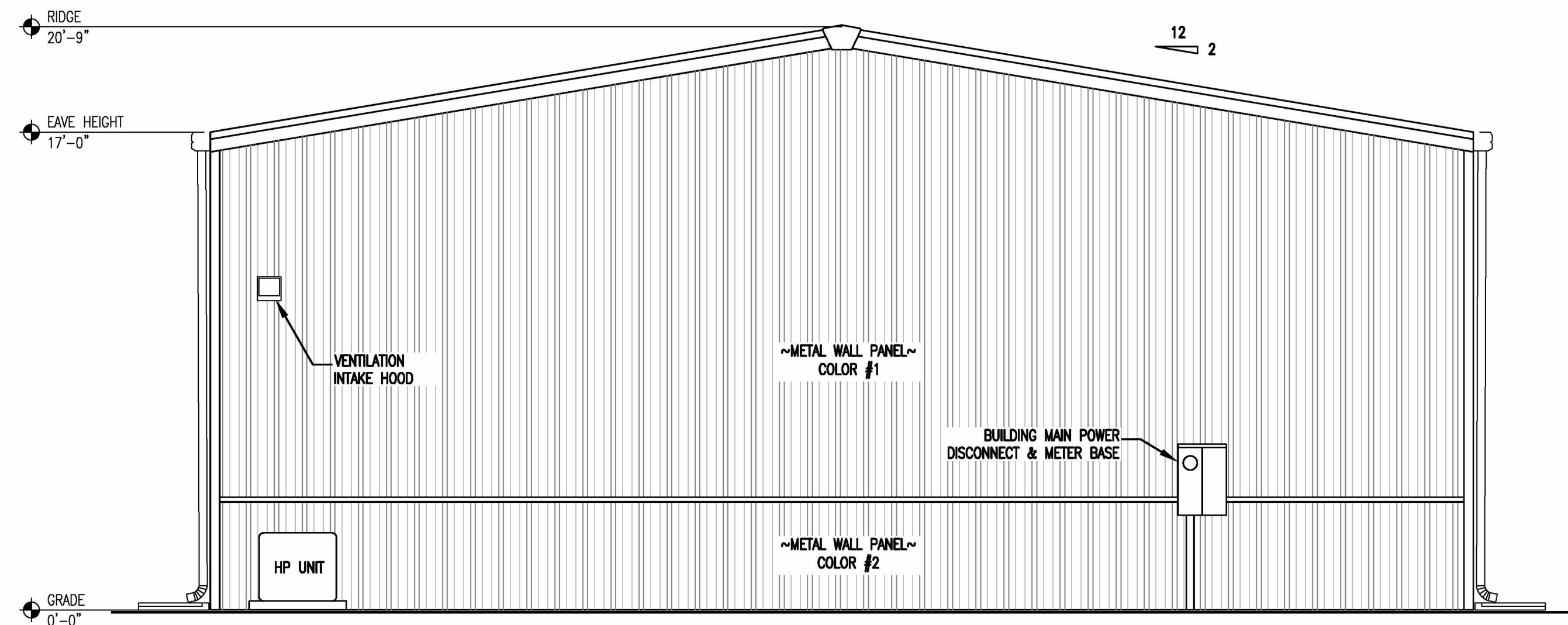
1 FRONT ELEVATION
G3
SCALE: 1/4" = 1'-0"



2 REAR ELEVATION
G3
SCALE: 1/4" = 1'-0"



3 RIGHT SIDE ELEVATION
G3
SCALE: 1/4" = 1'-0"



4 LEFT SIDE ELEVATION
G3
SCALE: 1/4" = 1'-0"

Drawing File: H:\2025\Trade-Truck-Harnett Co. Proj 2025-04-02\DWG\G-Trade PEMB-20 June 2025.dwg
Plot Date: 06/25/2025 11:06am



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OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
1608 MCARTUR RD. FAYETTEVILLE, NC 28311-1002
910.822.1724



10 JULY 2025

DESIGNED / CHECKED BY: KJD
DRAWN BY: BT
PROJECT #: 2025-04-02.2
DATE: 10 JULY 2025

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION
OWNER/TENANT:
LUIS TIRADO
3027 OLD US 421 LILINGTON, NC 27146
CONTRACTOR/BUILDER:
TBD

REV	DATE	DESCRIPTION
1	07/10/25	FINAL FOR CONSTRUCTION

TIRADO TRUCK SHOP
US 421 SOUTH, HARNETT COUNTY, NC
BUILDING ELEVATIONS

PROJECT:
SHEET:

G3

1'-4" 2'-0" 0 4" 8" 1'-0" 2'-8" 0 6" 1'-0" 4" 0 8" 1'-4" 4" 0 2' 1'-0" 8' 0 4" 1'-0" 10'-8" 0 2' 4" 16' 0 4" 8" 0 1'-0" SCALE: 1/8" = 1'-0"

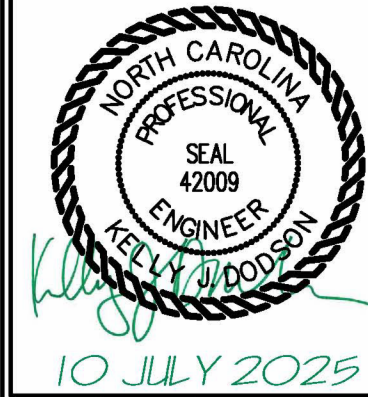
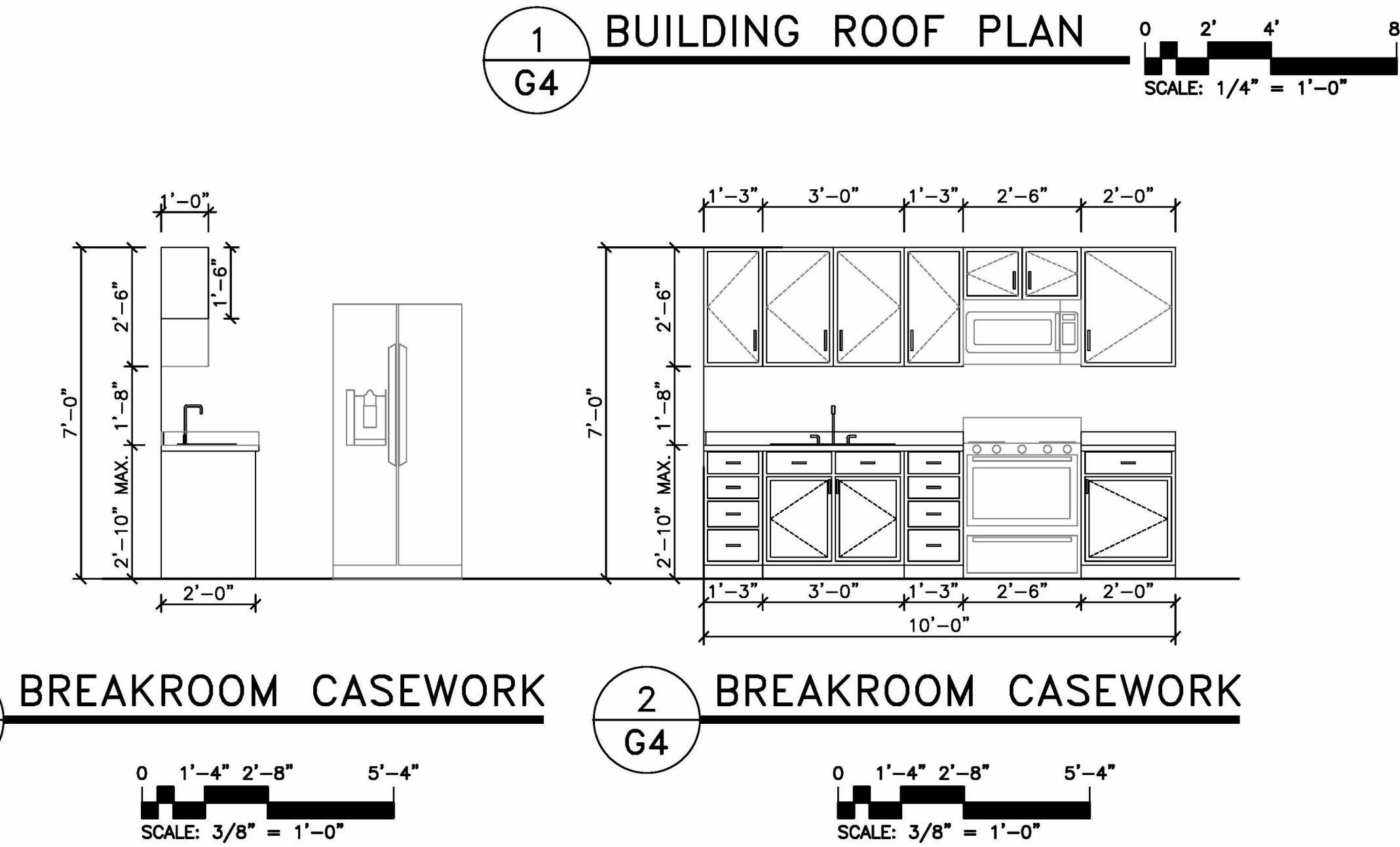
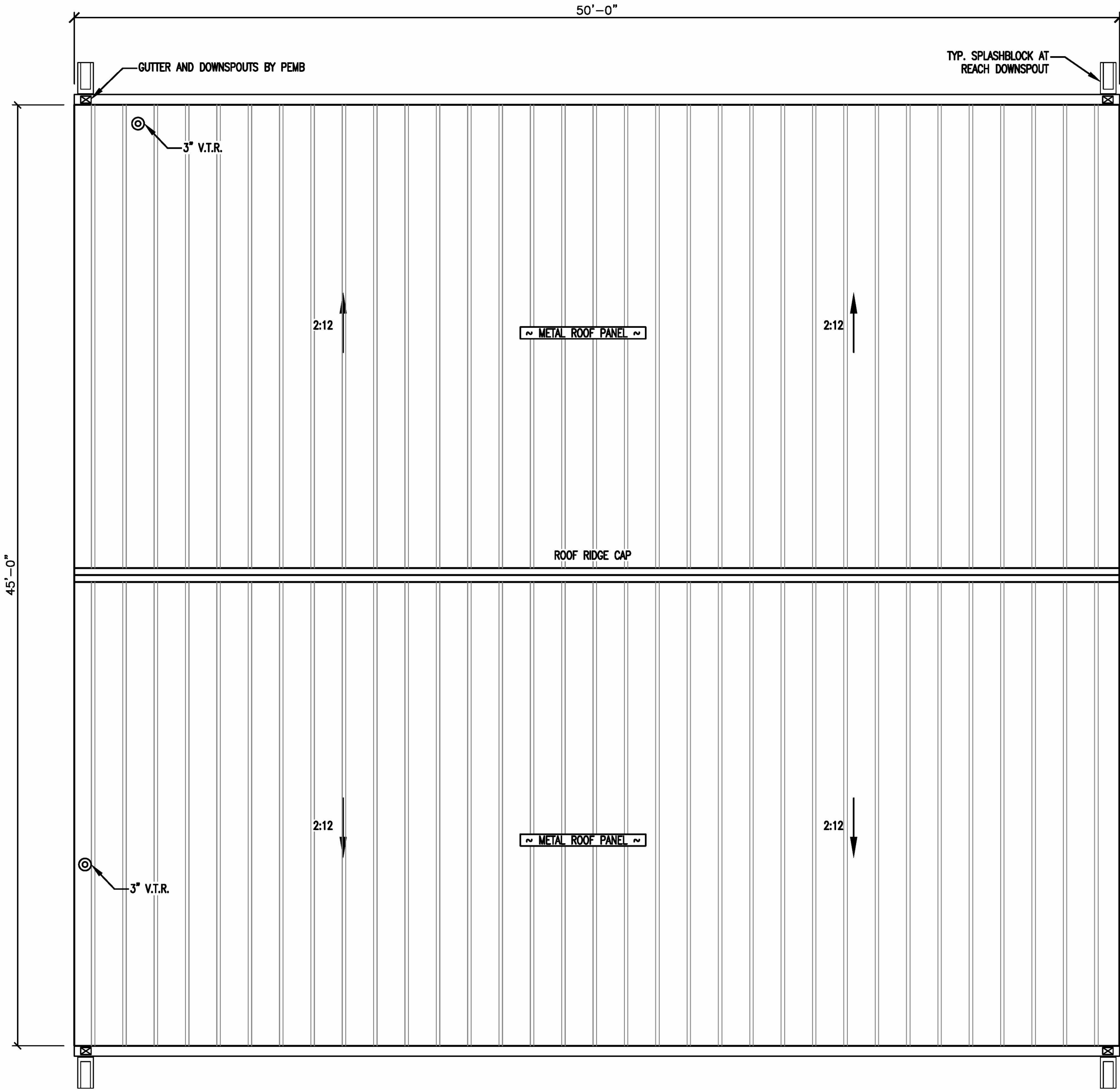
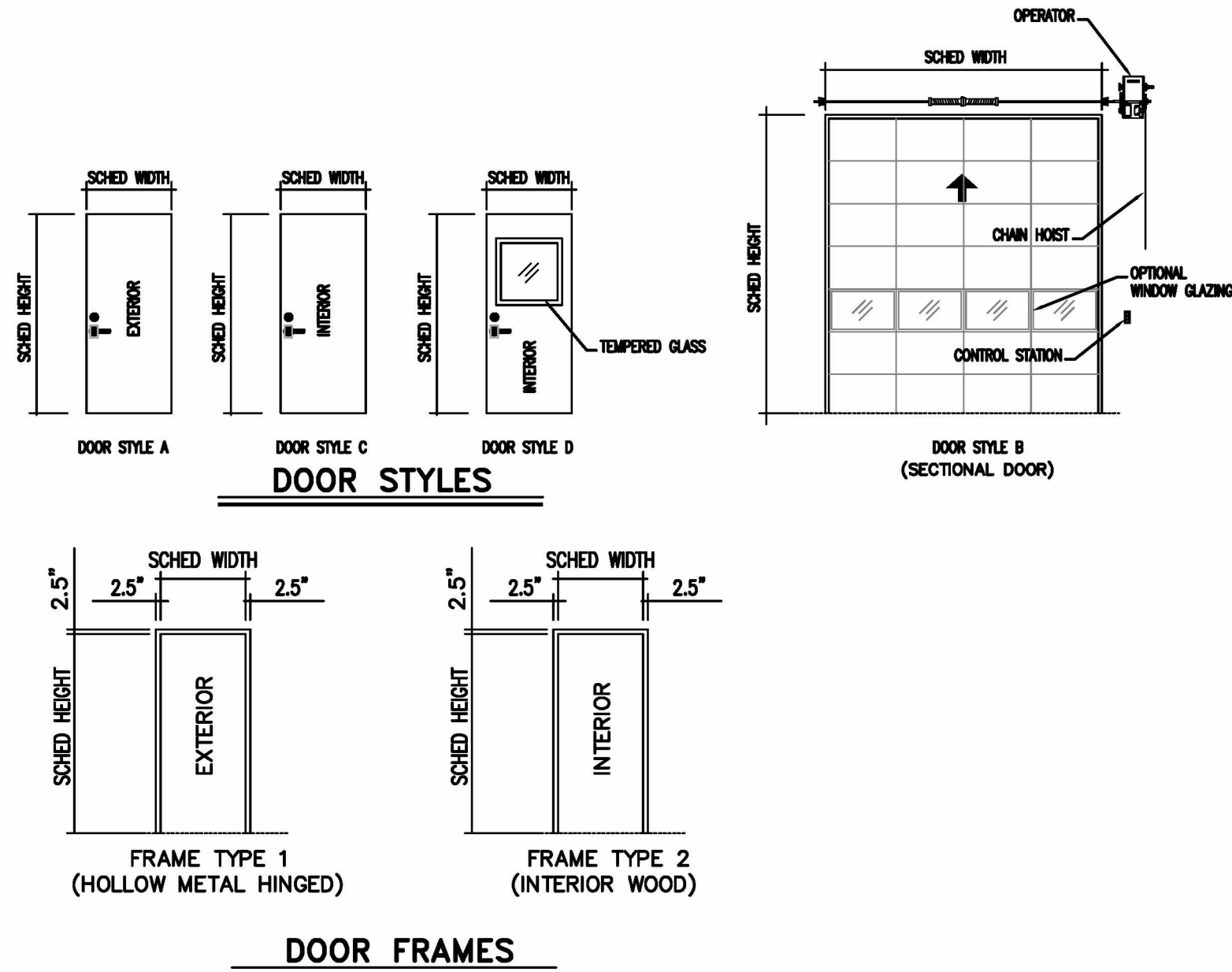
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ROOM FINISH SCHEDULE									
ROOM NAME	ROOM NUMBER	NET SQ.FT.	FLOOR	BASE	WALLS	WALLS HEIGHT	CEILING MATERIAL	CEILING HEIGHT	REMARKS
***NOTE: ALL FINISHES SHALL MATCH WITH EXISTING BUILDING									
BAY AREA	100	1862	SEALED CONCRETE	N/A	N/A	N/A	EXPOSED	VARIES	
BREAKROOM	101	76	VCT	WOOD	GYP.BD/PT	9'-0"	GYP.BD/PT	9'-0"	
BATHROOM	102	81	VCT	WOOD	GYP.BD/PT F.R.P. PANEL	9'-0"	GYP.BD/PT	9'-0"	4'-0" F.R.P. PANEL ON WALL
RESTROOM	103	23	VCT	WOOD	GYP.BD/PT F.R.P. PANEL	9'-0"	GYP.BD/PT	9'-0"	4'-0" F.R.P. PANEL ON WALL
STORAGE	200	166	ALUMINUM CHECKER PLATE	WOOD	GYP.BD/PT	VARIES	EXPOSED	VARIES	
FINISH SCHEDULE CODES									
LVT	LUXURY VINYL TILE	PT	PAINTED	NW	VINYL WALLCOVERING	MT	MOSAIC TILE	V.P.	VINYL PLANK
CONC.	CONCRETE	CMU	CONCRETE MASONRY UNIT	SC	SEALED CONCRETE	PNL	PANELING	PAVERS	BRICK PAVERS
COMP.	COMPOSITION	ACOUSTIC	ACOUSTICAL	RU	RUBBER	WD	WOOD	CPT	CARPET
GYP. BD.	GYPSUM BOARD	SV	SHEET VINYL	CER TILE	CERAMIC TILE	ST	STEEL	1-HOUR	U-305
AA	ANODIZED ALUMINUM	C.G	CORNER GUARD (ACROVYN)	WC	WAINSCOT	FRP	FIRE RESISTANT PANEL		

- FINISH GENERAL NOTES
- FINISH SCHEDULE DESCRIBES ONLY THE BASIC SURFACE FINISH.
 - CASEWORK FINISHES ARE NOT SHOWN IN THE DRAWING. REFER TO SPECIFICATIONS FOR MATERIALS AND FINISHES.
 - PROVIDE CORNER GUARDS AS SHOWN ON FINISHES DRAWING.
 - F.R.P. WALL PANEL SHALL BE 51" TALL A.F.F.

DOOR SCHEDULE																	
DOOR NO	DOOR SIZE			DOOR		FRAME		HARDWARE									
	WIDTH	HEIGHT	THICKNESS	STYLE	MATERIAL	TYPE	MATERIAL	FINISH	FINISH	FIRE RATING	ENTRANCE LOCK	STOREROOM LOCK	PASSAGE SET	PRIVACY SET	PUSH/PULL	PNIC SET	CLOSER
D100	3'-0"	7'-0"	X 1-3/4"	A	HM	P	1	HM	P		X					X	X
D100A	3'-0"	7'-0"	X 1-3/4"	A	HM	P	1	HM	P		X					X	X
D100B	3'-0"	7'-0"	X 1-3/4"	A	HM	P	1	HM	P		X					X	X
D100C	14'-0"	X 14'-0"		B	HM			HM									
D100D	14'-0"	X 14'-0"		B	HM			HM									
D100E	2'-6"	X 6'-8"	X 1-3/4"	C	WD	P	2	WD	P				X				
D101	3'-0"	X 7'-0"	X 1-3/4"	D	WD	P	2	WD	P				X				
D102	3'-0"	X 7'-0"	X 1-3/4"	C	WD	P	2	WD	P				X				
D200	3'-0"	X 7'-0"	X 1-3/4"	C	HM	P	2	WD	P		X						
NOTES:																	
1. APPLY 2 COATS OF SEMI-GLOSS TO ALL WOOD DOORS.																	
2. ALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OF EFFORT. ALL HARDWARE MUST BE DIRECT ACTING REQUIRING NOT MORE THAN ONE OPERATION.																	
3. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR PER ICC/ANSI A117.1-2008 SECTIONS 404.2.6& 404.2.7																	
4. G.C. TO REVIEW ALL HARDWARE SETS WITH OWNER BEFORE INSTALLATION																	
5. PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES																	
PASSAGE SET: (CLOSET & HALL) PASSAGE LOCKSETS KEEP DOORS FIRMLY CLOSED, BUT DO NOT ACTUALLY LOCK. BOTH LEVERS ALWAYS TURN FREE WITH NO LOCK CYLINDER OR PROVISION FOR A KEY.																	
PRIVACY SET: (RESTROOM) PRIVACY LOCKSETS ARE LOCKED WITH AN INSIDE PUSH-BUTTON. TURNING THE INSIDE KNOB OR LEVER RELEASES THE LOCK. A SMALL SCREWDRIVER CAN BE USED AS AN EMERGENCY KEY, FROM THE OUTSIDE, IF NECESSARY.																	
ENTRANCE LOCK: (ENTRY) ENTRANCE LOCKED BY PUSHING AND TURNING A BUTTON AND UNLOCKED BY THE KEY UNTIL THE INSIDE BUTTON IS MANUALLY UNLOCKED. THEY ARE ALSO AVAILABLE WITH PUSHBUTTON LOCKING, IN WHICH PUSHING THE BUTTON LOCKS THE OUTSIDE KNOB OR LEVER UNTIL IT IS UNLOCKED BY KEY OR BY TURNING THE INSIDE KNOB OR LEVER. THE INSIDE KNOB OR LEVER IS ALWAYS FREE FOR IMMEDIATE EXIT.																	
***NOTE: ALL NEW HARDWARE TO BE LEVER ADA ACCEPTABLE ALL THRESHOLDS TO MEET ADA SPECIFICATIONS																	

DOOR SCHEDULE LEGEND			
H	HEIGHT	HM	HOLLOW METAL KNOCK-DOWN
W	WIDE	P	PAINT
ALUM	ALUMINUM	S	STAIN
WD	WOOD-SOLID CORE	M	METAL
T	THICKNESS	WI	WROUGHT IRON
		VA/B	VERIFY ANODIZED OR BRONZE



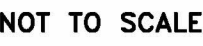
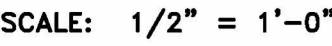
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DRAWN BY: BT
PROJECT #: 2025-04-02.2
DATE: 10 JULY 2025

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION
OWNER/CLIENT: LUIS TIRADO
3072 OLD US 41 LILLINGTON, NC 27446
CONTRACTOR/BUILDER: TBD

REVISIONS:		
REV	DATE	DESCRIPTION
1	07/10/25	FINAL FOR CONSTRUCTION

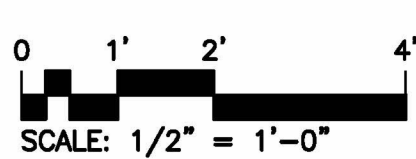
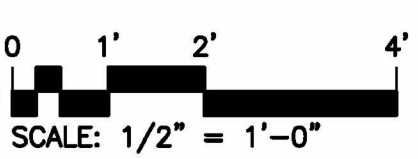
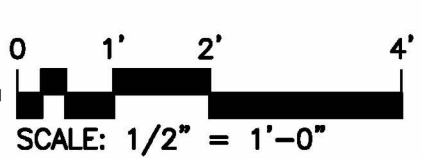
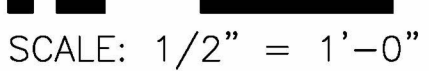
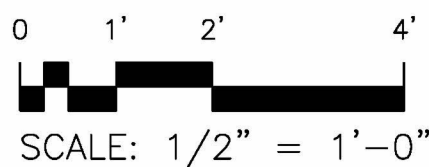
PROJECT: TIRADO TRUCK SHOP
US 421 SOUTH, HARNETT COUNTY, NC
SHEET: SCHEDULE & ROOF PLAN

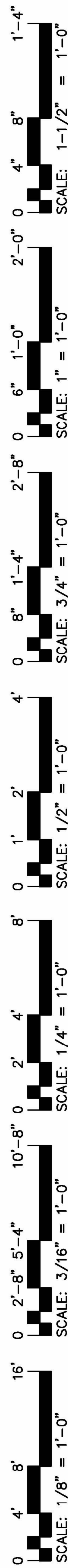
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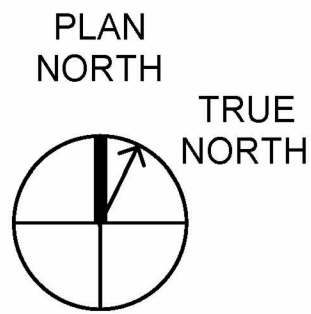
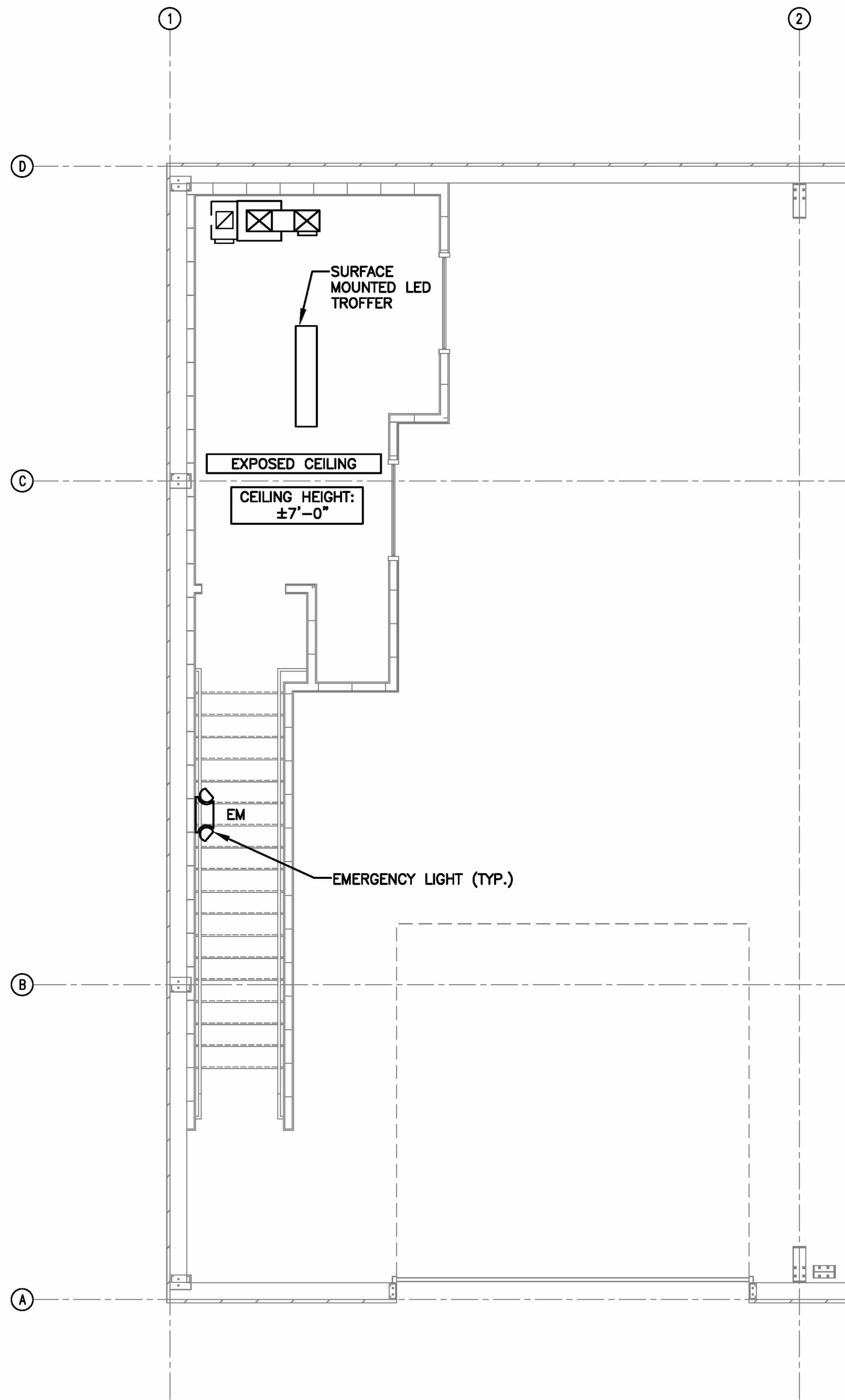
SEE SHEET P1 FOR PLUMBING FIXTURE SCHEDULE.

GYPSUM WALL BOARD SHALL BE MOISTURE RESISTANT IN RESTROOM

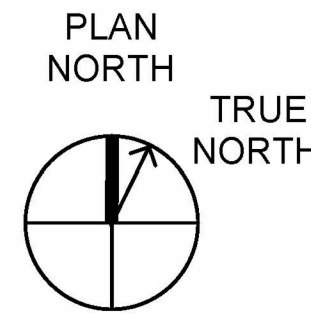
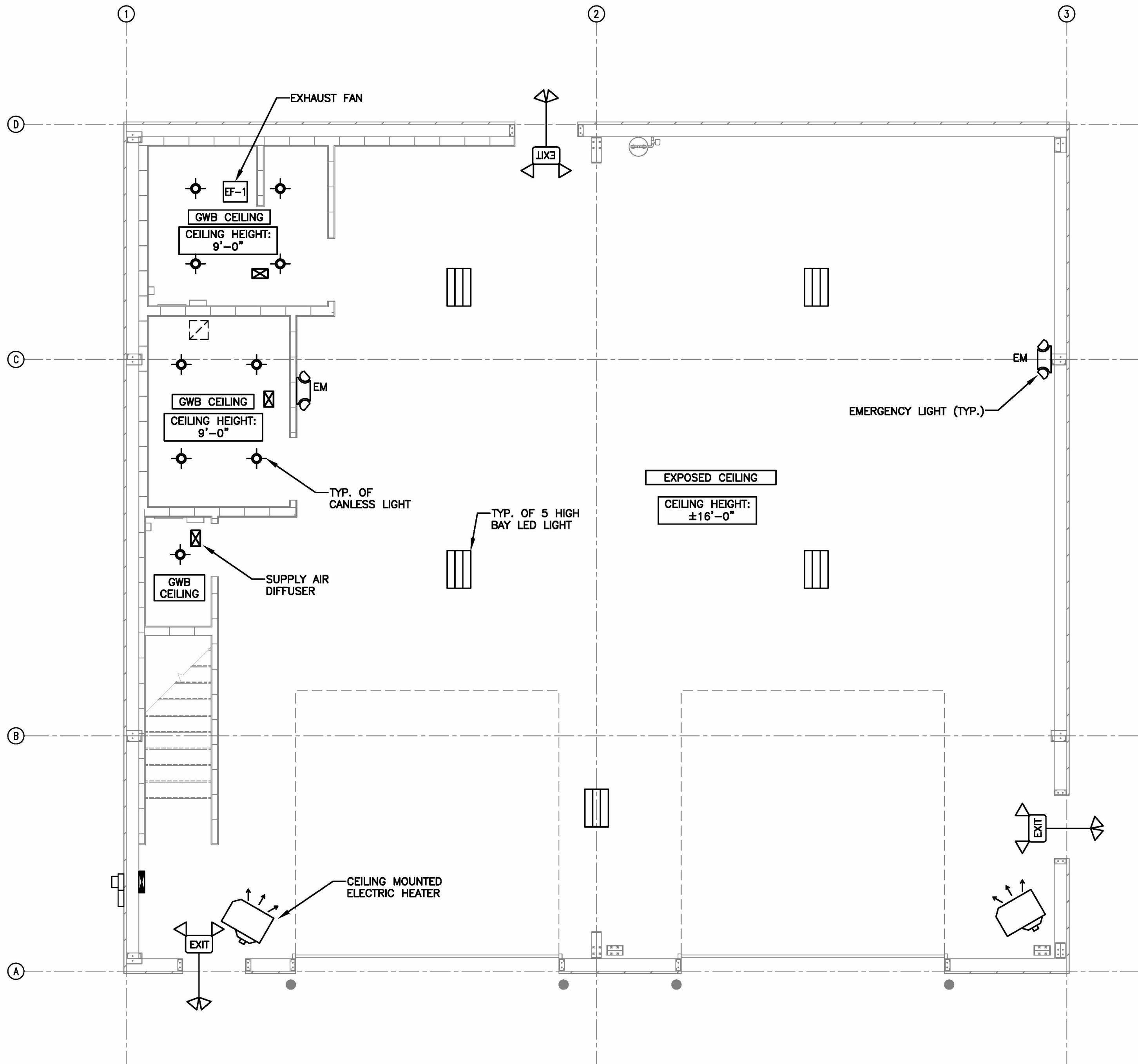
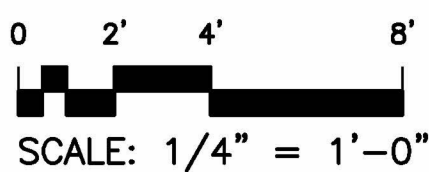




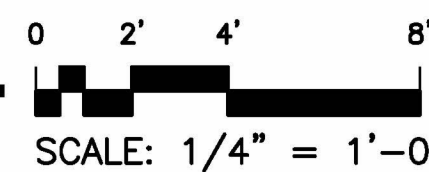
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Project Name: Tirado Truck Shop
Project No.: 2025-04-02.3
Project Date: 06/10/2025 - 10:33am



2 REFLECTED CEILING PLAN
G6 MEZZANINE



1 REFLECTED CEILING PLAN
G6 FIRST FLOOR



PERMITTING STAMP

PROJECT: **TIRADO TRUCK SHOP**
US 421 SOUTH, HARNETT COUNTY, NC

SHEET: **REFLECTED CEILING PLAN**

G6

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION

OWNER/TENANT:
LUIS TIRADO

CONTRACTOR/BUILDER:
TBD

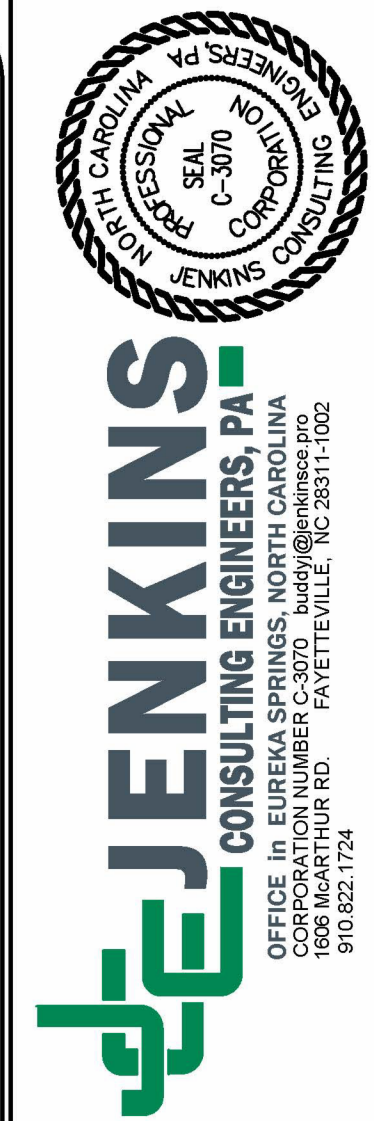
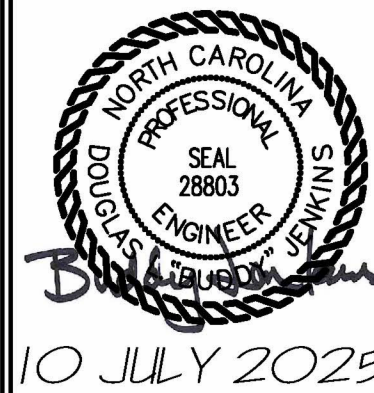
REV	DATE	DESCRIPTION
1	07/10/25	FINAL FOR CONSTRUCTION

DESIGNED / CHECKED BY: **BJ**

DRAWN BY: **BT**

PROJECT #: **2025-04-02.2**

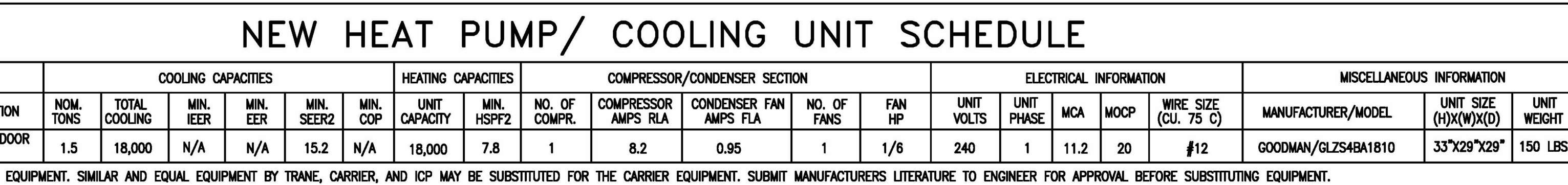
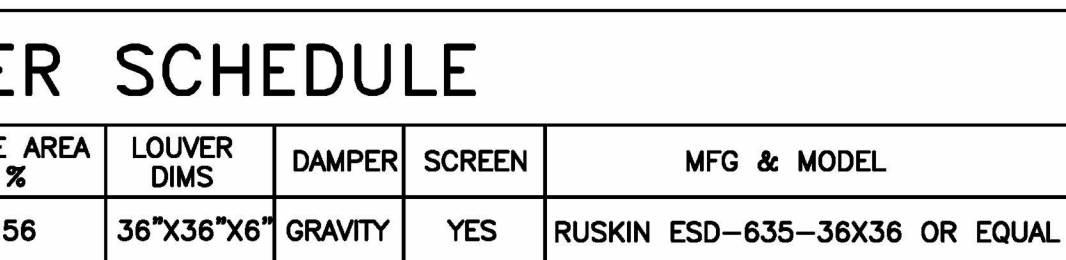
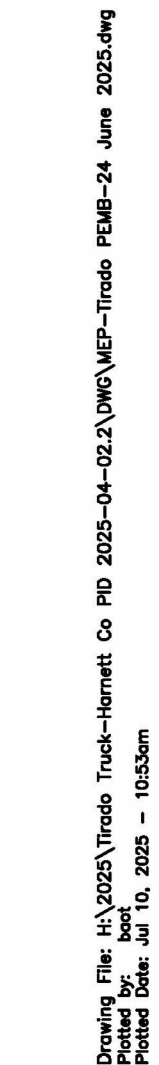
DATE: **10 JULY 2025**



SCALE: 1/8" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 1" = 1'-0" SCALE: 1-1/2" = 1'-0"

Processing File H:\2025\Trade Truck-Hamett Co PID 2025-04-02.2\DWG\MEP-Trade PEUB-24 June 2025.dwg
by: b3600000
Plotted Date: Jul 17, 2025 - 9:12am

M 1



EXHAUST FAN SCHEDULE															
EQUIPMENT INFO				FAN INFORMATION					ELECTRICAL INFORMATION					MFG & MODEL	
TAG	QTY.	TYPE	LOCATION	EXHAUST CFM	AREA SERVED	ESP IN WG	FAN DRIVE	SONES	RPM	FAN WATT	UNIT VOLTS	UNIT PHASE	HP		WIRE SIZE (DU. 75 C)
EF-1	1	EXHAUST	CEILING	100	BATHROOM	0.25	DIRECT	0.4	700	17	120	1	N/A	#12	GREENHECK / SP-A90-QD PROVIDE WALL CAP WITH BACKDRAFT DAMPER
EF-2	1	EXHAUST	WALL MOUNTED	700	RESTROOM	N/A	DIRECT	N/A	700	17	120	1	N/A	#12	GREENHECK / SP-LP0511-1 PROVIDE WALL CAP WITH BACKDRAFT DAMPER
EF-3	1	EXHAUST	WALL MOUNTED	4300	BAY AREA	0.25	DIRECT	N/A	1725	800	120	1	1/3	#12	CANARM / SD24-XR (EXPLOSION PROOF) (CLASS I, GROUP D)
*** RESTROOM EXHAUST FAN SHALL BE CONTROLLED WITH RESTROOM LIGHT SWITCH.															
*** BAY AREA EXHAUST FAN SHALL BE OPERATE AT ALL TIME WHEN THE BUILDING IS OCCUPIED.															

UNIT HEATER SCHEDULE																
EQUIPMENT TYPE			HEATING CAPACITIES			ELECTRICAL INFORMATION						EQUIPMENT INFORMATION				REMARK
TAG	FUEL TYPE	LOCATION	BTU OUTPUT	AIRFLOW CFM	FAN TYPE	MOTOR HP	UNIT VOLTS	UNIT PHASE	FAN FLA	MOCB	KW	UNIT SIZE (L)X(W)X(H)	UNIT WEIGHT	UNIT MANU.	MODEL NUMBER	
HEAT-1	ELECTRIC	SERVICE BAY	34,000	950	AXIAL FAN	0.07	240	1	41.6	55	9.9	49"x41"x34"	277 LBS	REZNOR	EUH-10	①②
HEAT-2	ELECTRIC	SERVICE BAY	34,000	950	AXIAL FAN	0.07	240	1	41.6	55	9.9	49"x41"x34"	277 LBS	REZNOR	EUH-10	①②

① FACTORY THERMOSTAT ② FACTORY CEILING SUSPENSION KIT

NEW AIR HANDLING UNIT SCHEDULE																			
EQUIPMENT INFO				INDOOR FAN SECTION							ELECTRICAL INFORMATION					MISCELLANEOUS INFORMATION			
TAG	TYPE	LOCATION	NOM. TONS	SUPPLY CFM	OA CFM	ESP INCHES	FAN TYPE	FAN HP	FAN RPM	FAN FLA	HEAT STRIPS(KW)	UNIT VOLTS	UNIT PHASE	MCA	MOCp	WIRE SIZE (DU. 75 C)	MANUFACTURER/MODEL	UNIT SIZE (H)x(W)x(D)	UNIT WEIGHT
AHU-1	UP-FLOW SPLIT-SYSTEM	MEZZANINE	1.5	600	170	N/A	DIRECT	3/4	VARIABLE ECM	4.6	3.0 KW	240	1	21.4	25	#10	GOODMAN/ AMST24BU13 HEATER: HKTSN03X1	45"x21"x18"	112 LBS
***BASIS OF DESIGN: GOODMAN EQUIPMENT, SIMILAR AND EQUAL EQUIPMENT BY TRANS. CARRIER, AND ICP MAY BE SUBSTITUTED FOR THE CARRIER EQUIPMENT. SUBMIT MANUFACTURERS LITERATURE TO ENGINEER FOR APPROVAL BEFORE SUBSTITUTING EQUIPMENT.																			

GRILLE/RETURN SCHEDULE							
TAG	CFM	AIR PATTERN	FACE SIZE	NECK SIZE	SERVICE	MFG & MODEL	REMARKS
(A)	50-100	3-WAY	14" X 6"	6"ø	SUPPLY	TRUEAIR / 103M	SURFACE, ADJ. DAMPER, OFFWHITE, ALUM.
(B)	110-250	3-WAY	16" X 8"	8"ø	SUPPLY	TRUEAIR / 103M	SURFACE, ADJ. DAMPER, OFFWHITE, ALUM.
(C)	100-200	LOUVERED	10" X 10"	8" X 8"	RETURN	TRUEAIR A290 OR EQUAL	SURFACE, OFF WHITE; ALUM.; FILTER

PERMITTING STAMP



10 JULY 2025

DESIGNED / CHECKED BY:	BJ
DRAWN BY:	BT
PROJECT #:	2025-04-02.2
DATE:	

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION

OWNER/TENANT:
LUIS TIRADO
3577 OLD US 421 LILLINGTON, NC 27546

CONTRACTOR/BUILDER:
TBD

REV	DATE	DESCRIPTION
A	07/10/25	FINAL FOR CON

PROJECT: ***TIRADO TRUCK SHOP***
 US 421 SOUTH, HARNETT COUNTY, NC

SHEET: **MECHANICAL – HVAC PLAN**

M2

1'-4" 8" 4" 2'-0" 0 4" 1'-0" 2'-8" 0 6" 1'-0" 2'-0" 0 8" 1'-4" 4' 0 8" 1'-0" 2'-8" 0 2'-0" 0 4' 0 8" 1'-0" 10'-8" 0 2' 4' 0 2'-8" 5'-4" 16' 0 4' 8" 0 4' 8" 1'-0" SCALE: 1/8" = 1'-0" 1'-0" 2'-0" 0 4' 8" 1'-0" 10'-8" 0 2' 4' 0 2'-8" 5'-4" 16' 0 4' 8" 0 4' 8" 1'-0" SCALE: 1/8" = 1'-0" 1'-0" 2'-0" 0 4' 8" 1'-0" 10'-8" 0 2' 4' 0 2'-8" 5'-4" 16' 0 4' 8" 0 4' 8" 1'-0" SCALE: 1/8" = 1'-0" 1'-0" 2'-0" 0 4' 8" 1'-0" 10'-8" 0 2' 4' 0 2'-8" 5'-4" 16' 0 4' 8" 0 4' 8" 1'-0" SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND	
	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.
	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F.; TAMPER RESISTANT
	DUPLEX RECEPTACLE; GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX RECEPTACLE; WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER
	QUAD RECEPTACLE; MOUNT AT 18" A.F.F.
	2 POLE 208/240V RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SINGLE POLE POWER/LIGHTING HOMERUN
	2-POLE POWER HOMERUN
	3-POLE POWER HOMERUN (3 PHASE)
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED VOICE (TELEPHONE) OUTLET
	WALL MOUNTED VOICE/DATA OUTLET
	TIMECLOCK
	TELEVISION OUTLET
	DISCONNECT
	JUNCTION BOX
	POWER PANEL
	SWITCH
	3-WAY SWITCH
	SWITCH WITH DIMMER
	OCCUPANCY SENSOR WITH MANUAL OVERRIDE
	LAY-IN/SURFACE MOUNTED LED LIGHT FIXTURE
	LAY-IN/SURFACE MOUNTED LED; NIGHT LIGHT
	PENDANT LIGHT
	CAN LIGHT
	EMERGENCY LIGHT
	EXIT/EMERGENCY COMBO
	EXIT LIGHT
	REMOTE HEAD FOR EXIT LIGHTING
	EXTERIOR MOUNTED WALL PACK

ELECTRICAL NOTES:
ALL WORK SHALL BE IN ACCORDANCE WITH 2020 NEC.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTOR SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED.

ROMEX CAN NOT BE USED IN THIS PROJECT. MC CAN BE USED.

EMT SHALL BE GALVANIZED STEEL TUBING 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUMITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS. MC CABLE MAY BE SUBSTITUTED FOR CONDUIT BACKWAYS WHERE PERMITTED BY THE CODE, AND APPROVED BY OWNER.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM, NONMETALLIC, HEAVY DUTY, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENGAGEMENT, FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH OF 72 INCHES FOR LIGHTING, AND 36 INCHES FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUID TIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET, OR OUTSIDE AREAS, AND LIQUID TIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TELEPHONE OUTLETS ARE TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 1 1/2 INCHES BETWEEN RECEPTACLES AND TELEPHONE OUTLETS.

ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL ALIGN ALL FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS, ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. FOLLOW THE REFLECTED CEILING PLAN IF PROVIDED.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS, FIXTURES, CONDUIT, AND ETC. FOR THIS PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT THAT WILL BE ACTUALLY INSTALLED, RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION FOR USE WITH ACTUAL EQUIPMENT.

ALL LIGHT SWITCHES, RECEPTACLES, WALL PLATES, TELEPHONE/COMPUTER OUTLET BOXES, AND CABLE OUTLET BOXES SHALL BE WHITE.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED IN HIS CONTRACT AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED COVERING CODES. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE ELECTRICAL CONTRACTORS EXPENSE.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE DRAWINGS FOR FLOOR PLAN AND BUILDING ELEVATION DIMENSIONS.

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE ELECTRICAL CONTRACTOR TO ORGANIZE HIS CONDUIT, WIRE, AND CABLE RUNS IN ATTIC SPACES AND ABOVE CEILINGS, MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS. FREE RUNS OF PHONE, TELEVISION, SECURITY, ALARM, AND OTHER CABLES IS NOT ACCEPTABLE.

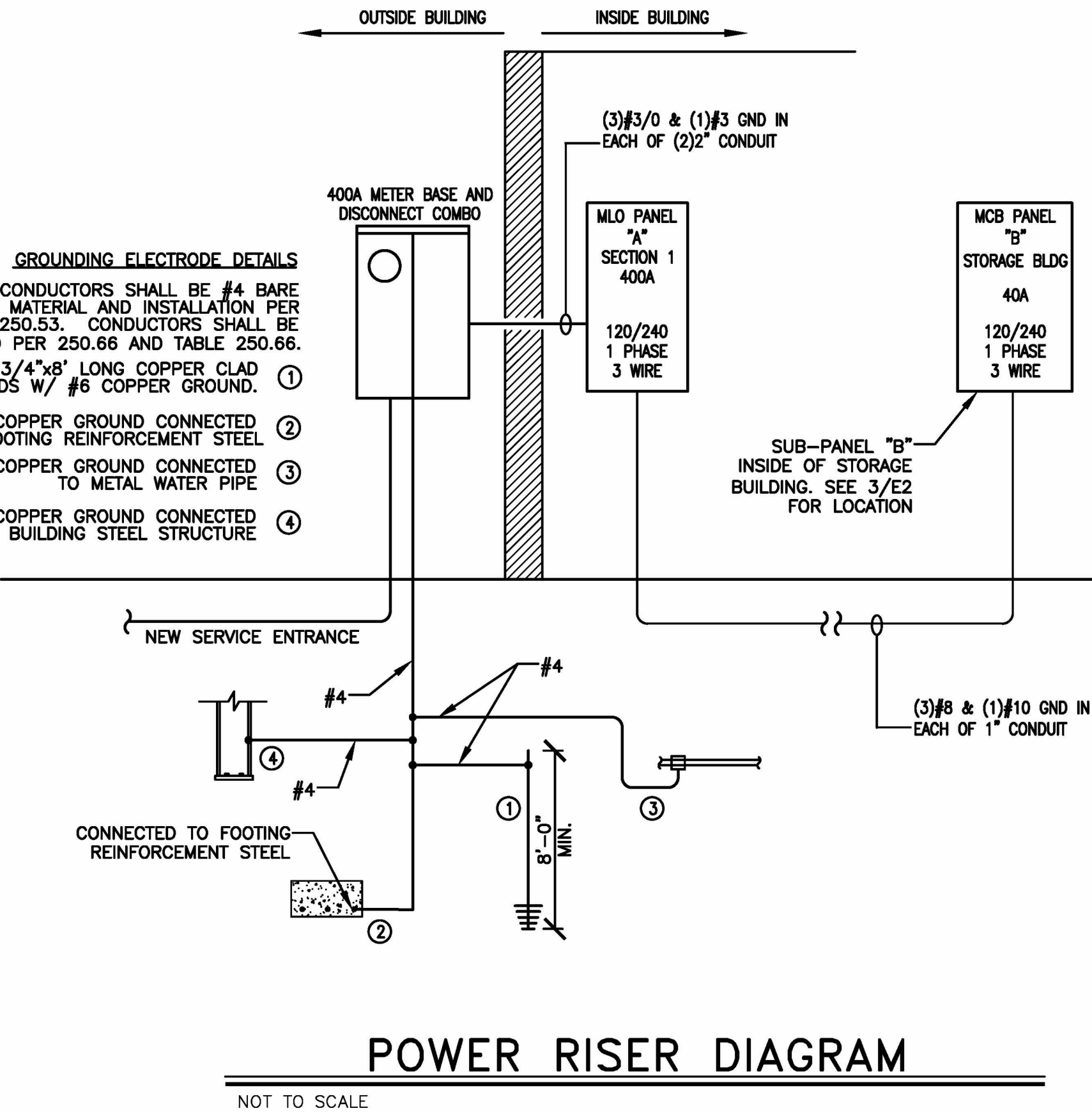
ALL DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AND ETC. SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR. WHERE EQUIPMENT PENETRATES EXTERIOR WALLS OR ROOF, THEY SHALL BE PROPERLY SEALED.

EXHAUST FANS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND ELECTRICAL WIRING BY THE ELECTRICAL CONTRACTOR.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT, SWITCHES, PANELS, ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) FITTED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

THE ELECTRICAL CONTRACTOR IS NOT TO SCALE THE DRAWINGS FOR RECEPTACLES AND LIGHT FIXTURES TO BE INSTALLED. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY TO SHOW GENERAL LOCATION. THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES AND LIGHT FIXTURES WITH THE GENERAL CONTRACTOR AND/OR CASWORK DRAWINGS.

ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE RATED FOR 20 AMP UNLESS NOTED OTHERWISE.



PANEL "A"			PHASE: 1				WIRE: 3		VOLTS: 240/120		MAIN: 400A MLO				
			TYPE: NEMA 1				MOUNTING: RECESSED				ENCLOSURE: TYPE 1				
			SHORT CIRCUIT RATING: 22 KA				RMS SYM.								
			X GROUND TERMINAL BAR				X NEUTRAL TERMINAL BAR								
PHASE LOADING		DESCRIPTION	WIRE SIZE	CKT. BKR. TRIP	CKT. NO.	A	B	CKT. NO.	CKT. BKR. TRIP	WIRE SIZE	DESCRIPTION	PHASE LOADING			
A	B											A	B		
0.60		REFRIGERATOR	#12	20/1	1			2	20/1	#12	RECEPT-RESTROOMS GFCI	0.55			
	0.55	RECEPT- BREAKROOM COUNTER	#12	20/1	3			4	20/1	#12	WASHER		0.85		
1.00		MICROWAVE	#12	20/1	5			6	20/1	#12	RECEPT- LEFT WALL	0.37			
	4.00	RANGE	#8	50/2	7			8	20/1	#12	RECEPT - BACK WALL		0.55		
4.00					9			10	20/1	#12	RECEPT - RIGHT WALL	0.55			
	1.34	GARAGE DOOR	#12	20/1	11			12	30/2	#10	CLOTHES DRYER		2.50		
1.34		GARAGE DOOR	#12	20/1	13			14	GFCI			2.50			
	0.18	LIGHTING - BREAK, RESTROOMS	#12	20/1	15			16	20/1	#12	EMERGENCY LIGHTS		0.10		
0.83		LIGHTING - BAY AREA	#12	20/1	17			18	20/1	#12	EXTERIOR WALL PACK	0.14			
	0.10	LIGHT - MEZZANINE	#12	20/1	19			20	20/1	#12	BAY AREA EXHAUST FAN	0.80			
-	-	-	-	-	21			22	-	-	-	-	-		
-	-	-	-	-	23			24	-	-	-	-	-		
-	-	-	-	-	25			26	-	-	-	-	-		
-	-	-	-	-	27			28	-	-	-	-	-		
-	-	-	-	-	29			30	-	-	-	-	-		
-	-	-	-	-	31			32	-	-	-	-	-		
-	-	-	-	-	33			34	40/2	#8	STORAGE BUILDING SUB-PANEL "B"		0.50		
2.53		AIR COMPRESSOR	#10	30/2	35			36	30/2	#10	WATER HEATER		2.25		
2.53					37			38				2.25			
2.50		RECEPT- EQUIPMENT	#10	30/2	39			40	30/2	GFCI	RECEPT- EQUIPMENT		2.50		
2.50					41			42	GFCI			2.50			
2.50		RECEPT- EQUIPMENT	#10	30/2	43			44	30/2	GFCI	RECEPT- EQUIPMENT		2.50		
2.50					45			46	GFCI			2.50			
4.99		BAY HEATER 1	#6	55/2	47			48	55/2	#6	BAY HEATER 2		4.99		
4.99					49			50				4.99			
2.57		AHU-1	#8	35/2	51			52	20/2	#12	HP-1		1.34		
2.57					53			54				1.34			
22.86	21.26	SUB-TOTAL (kVA)								SUB-TOTAL (kVA)				17.79	18.88
TOTAL CONNECTED LOAD = 80.79 KVA															
TOTAL AMPS = 336.625 AMP															
TOTAL OF: 54 SPACES															

AVAILABLE FAULT CURRENT	
UTILITY FAULT @ 240 VOLTS = 100 KVA XFMR 27,800 AMPS (2 RUNS) #250 KCMIL AL @ 200 FEET TO DISCONNECT AT SERVICE ENTRANCE	
L-L FAULT CURRENT = 9,925 AMPS	
L-N FAULT CURRENT = 6,512 AMPS	
3/0 COPPER @ 5 FEET TO PANEL (SHORTEST RUN)	
L-L FAULT CURRENT = 9,767 AMPS	
L-N FAULT CURRENT = 6,377 AMPS	

TOTAL CONNECTED LOAD SUMMARY			
ITEM	CONNECTED LOAD (kva)		ESTIMATED LOAD (kva)
HVAC	27.78	● 100%	= 27.78
LIGHTING	1.35	● 125%	= 1.68
RECEPTACLES	2.57	(T-10.00*60+10.00)	= 2.57
MISC. EQUIPMENT	49.09	● 60%	= 29.45
TOTAL CONNECTED	80.79 KVA	336.625 AMPS	
ESTIMATED DEMAND	61.48 KVA	255.16 AMPS	

APPENDIX B ELECTRICAL DESIGN 2018 BUILDING CODE SUMMARY

PROJECT NAME: TIRADO TRUCK REPAIR GARAGE

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE: X PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FIXTURE LED
NUMBER OF LAMPS IN FIXTURE (SEE FIXTURE SCHEDULE)
BALLAST TYPE USED IN THE FIXTURE ELECTRONIC
NUMBER OF BALLASTS IN FIXTURE 1
TOTAL WATTAGE PER FIXTURE VARIES PER FIXTURE
TOTAL INTERIOR WATTAGE SPECIFIED VERSUS ALLOWED (WHOLE BUILDING) 1,507 ALLOWED - 1,350 SPECIFIED
TOTAL EXTERIOR WATTAGE SPECIFIED VERSUS ALLOWED N/A

SECTION C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS

C406.1 BUILDINGS SHALL HAVE AT LEAST ONE OF THE FOLLOWING PRESCRIPTIVE COMPLIANCE (REQUIRED FOR NEW BUILDINGS, OPTIONAL FOR EXISTING BUILDINGS)

1. MORE EFFICIENT MECHANICAL EQUIPMENT PER C406.2
2. REDUCED LIGHTING POWER DENSITY PER C406.3
3. ENHANCED LIGHTING CONTROL SYSTEMS PER C406.4
4. ON-SITE SUPPLY OF RENEWABLE ENERGY PER C406.5
5. DEDICATED OUTDOOR AIR SYSTEM PER C406.6
6. HIGHER EFFICIENCY SERVICE WATER HEATING PER C406.7

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE 2018 NC ENERGY CONSERVATION CODE.

SIGNED: Buddy Jenkins
NAME: BUDDY JENKINS
TITLE: PROFESSIONAL ENGINEER

PERMITTING STAMP



10 JULY 2025


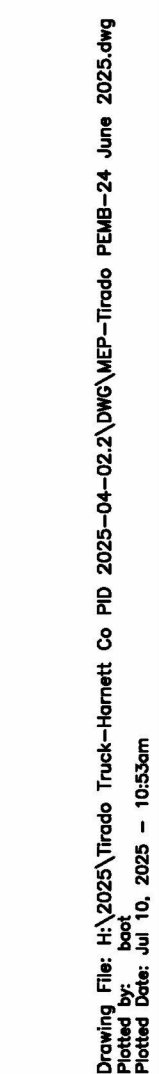
DESIGNED / CHECKED BY: BJ
DRAWN BY: BT
PROJECT #: 2025-04-02
DATE: 10 JULY 2025

FINAL DRAWING [] FOR REVIEW PURPOSES ONLY
PRELIMINARY [] FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING [X] FOR CONSTRUCTION
OWNER/TENANT: LUIS TIRADO
3077 OLD US 421 LILLINGTON, NC 27448
CONTRACTOR/BUILDER: TBD

REVISIONS:
REV DATE DESCRIPTION
1 07/10/25 FINAL FOR CONSTRUCTION


TIRADO TRUCK SHOP
US 421 SOUTH, HARNETT COUNTY, NC
ELECTRICAL RISERS & NOTES

E1



JENKINS
CONSULTING ENGINEERS, PA

OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
1508 WARTBURG RD. SUITE 200
EUREKA SPRINGS, NC 28541-1102
910.822.1724



DESIGNED / CHECKED BY:	BJ
DRAWN BY:	BT
PROJECT #:	2025-04-02.2
DATE:	

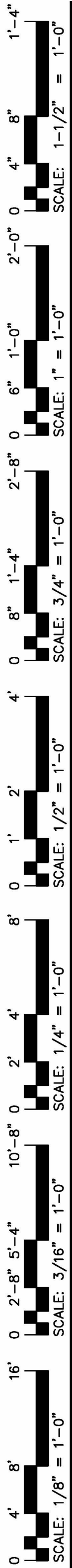
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REV	DATE	DESCRIPTION
A	07/10/25	FINAL FOR CON

TIRADO TRUCK SHOP
US 421 SOUTH, HARNETT COUNTY, NC
ELECTRICAL – POWER PLAN

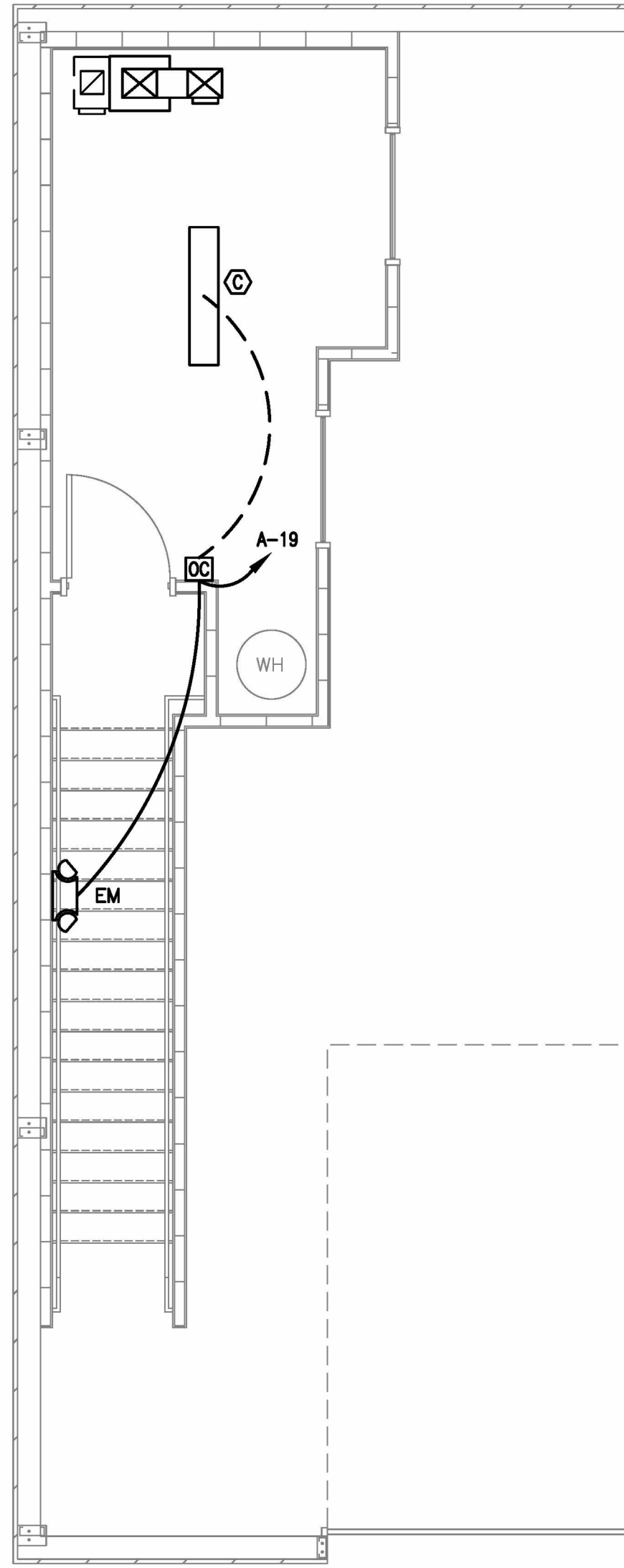
PROJECT:
SHEET:

E2

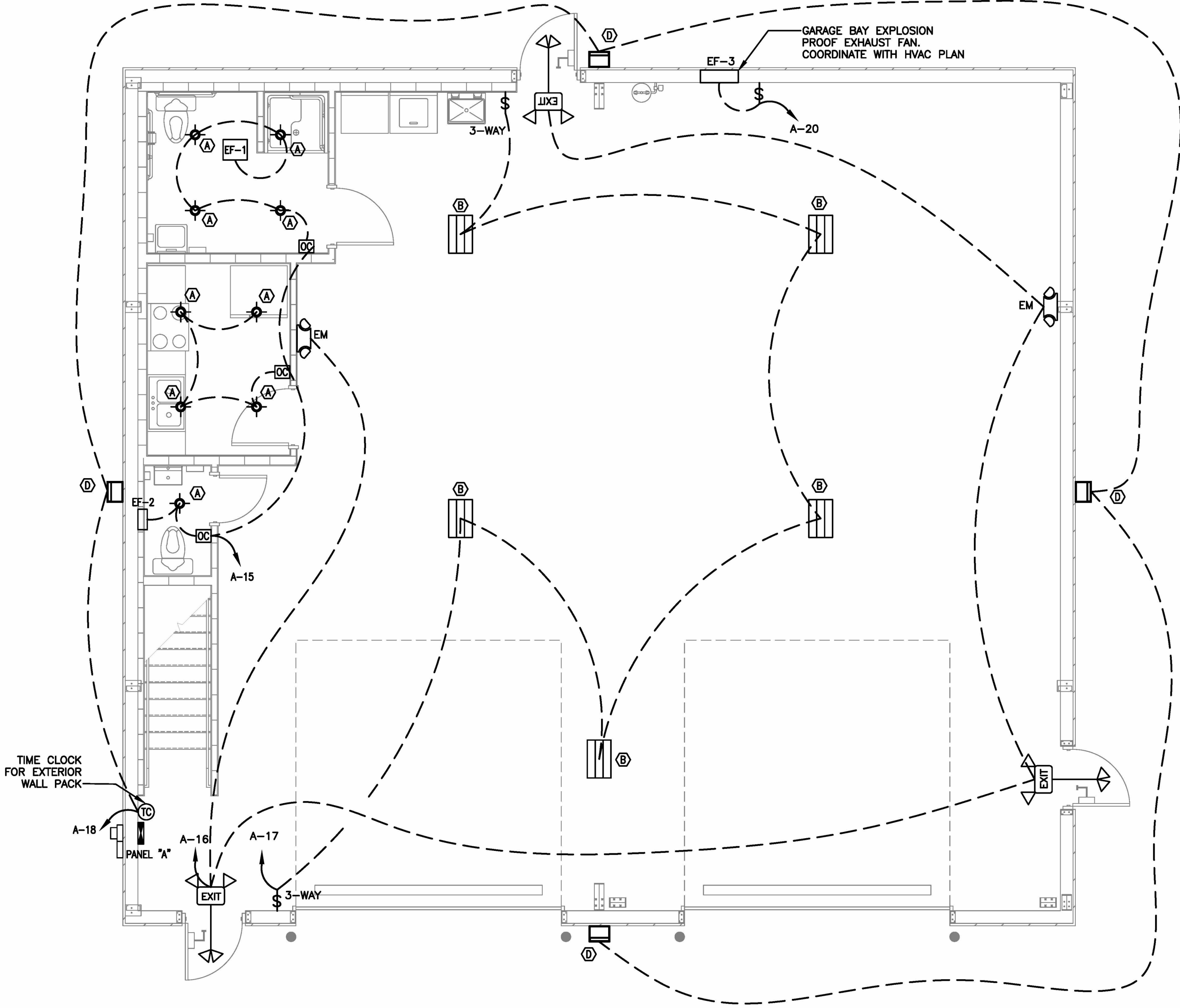


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Printed Date: Jun 10, 2025 - 10:33am

2 LIGHTING PLAN
E3 MEZZANINE
SCALE: 1/4" = 1'-0"



1 LIGHTING PLAN
E3 FIRST FLOOR
SCALE: 1/4" = 1'-0"



LIGHT FIXTURE SCHEDULE													
TAG	DESCRIPTION	SIZE	MOUNTING	LENS	COLOR	LUMENS	BULB	BALLAST TYPE	HOUSING	VOLTAGE	WATTAGE	MANU/MODEL NUMBER	REMARKS
A	LED RECESSED DOWNLIGHT	6"	RECESSED	N/A	5000 K	1210	LED	LED DRIVER	STEEL	120	14.3	LITHONIA NO. WF8 LED 50K MVOLT 90CRI OR EQUAL	
B	LED HIGH BAY LIGHT	24"x18"	SURFACE	N/A	5000 K	22000	LED	LED DRIVER	STEEL	120	165	LITHONIA NO. IBE L24 22000LM ATC MD 50K 80CRI OR EQUAL	
C	LED TROFFER	48"x12"	SURFACE	N/A	5000 K	4000	LED	LED DRIVER	STEEL	120	165	LITHONIA NO. SBL4 4000LM 80CRI 40K OR EQUAL	
D	EXTERIOR LED WALL PACK	13" X 9"	SURFACE	N/A	4000 K	5300	LED	LED DRIVER	STEEL	120	36	LITHONIA NO. TWR1 LED ALO SHW2 UVOLT PE DDBTXD OR EQUAL	
EM	EMERGENCY	N/A	WALL	N/A	N/A	N/A	(2) LAMPS	ELECTRONIC	POLYCARBONATE	120/240		LITHONIA NO. EU2L M12 OR EQUAL	6 VOLT NICAD BATTERY TEST SWITCH, POWER INDICATOR
EX	EXIT SIGN/EMERGENCY LIGHT COMBO	N/A	WALL	SINGLE	N/A	N/A	LED LIGHT	LED DRIVER	POLYCARBONATE	120/240		LITHONIA NO. LHQM LED R HO M6 OR EQUAL	6 VOLT NICAD BATTERY, (2) REMOTE HEADS

PERMITTING STAMP

PROJECT: **TIRADO TRUCK SHOP**
US 421 SOUTH, HARNETT COUNTY, NC

SHEET: **E3**

PROJECT:

SHEET:

DESIGNED / CHECKED BY: **BJ**

DRAWN BY: **BT**

PROJECT #: **2025-04-02.2**

DATE: **10 JULY 2025**

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION

OWNER/TENANT:
LUIS TIRADO
307 OLD US 421 LILINGTON, NC 27148

CONTRACTOR/BUILDER:
TBD

REVISIONS:

REV	DATE	DESCRIPTION
1	07/10/25	FINAL FOR CONSTRUCTION



10 JULY 2025



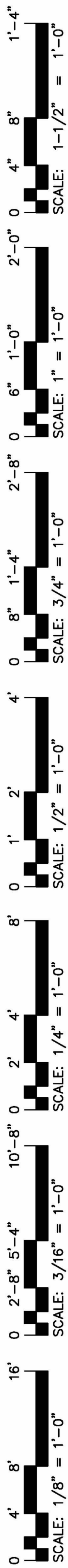
OFFICE in EUREKA SPRINGS, NORTH CAROLINA
1608 MARTIN RD. PAVETTEVILLE, NC 28311-1002
910.822.1724

JENKINS
CONSULTING ENGINEERS, PA

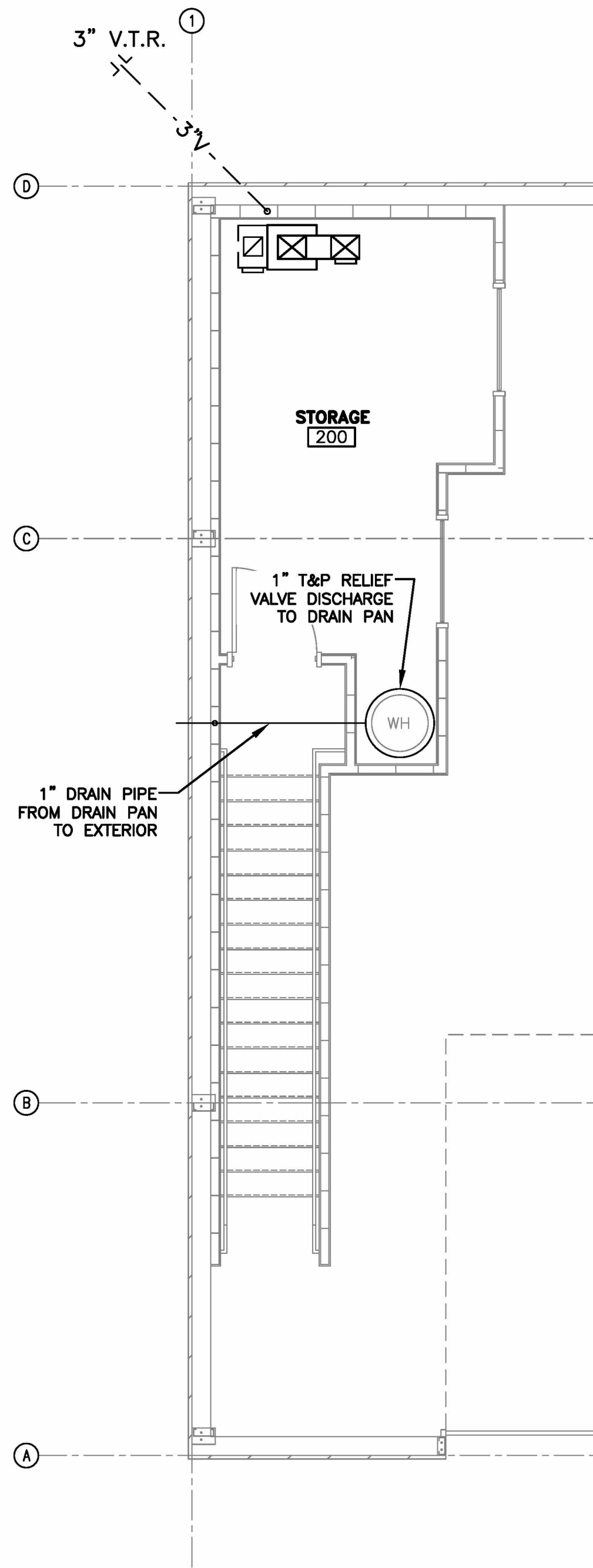
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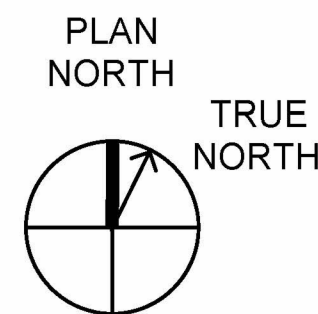
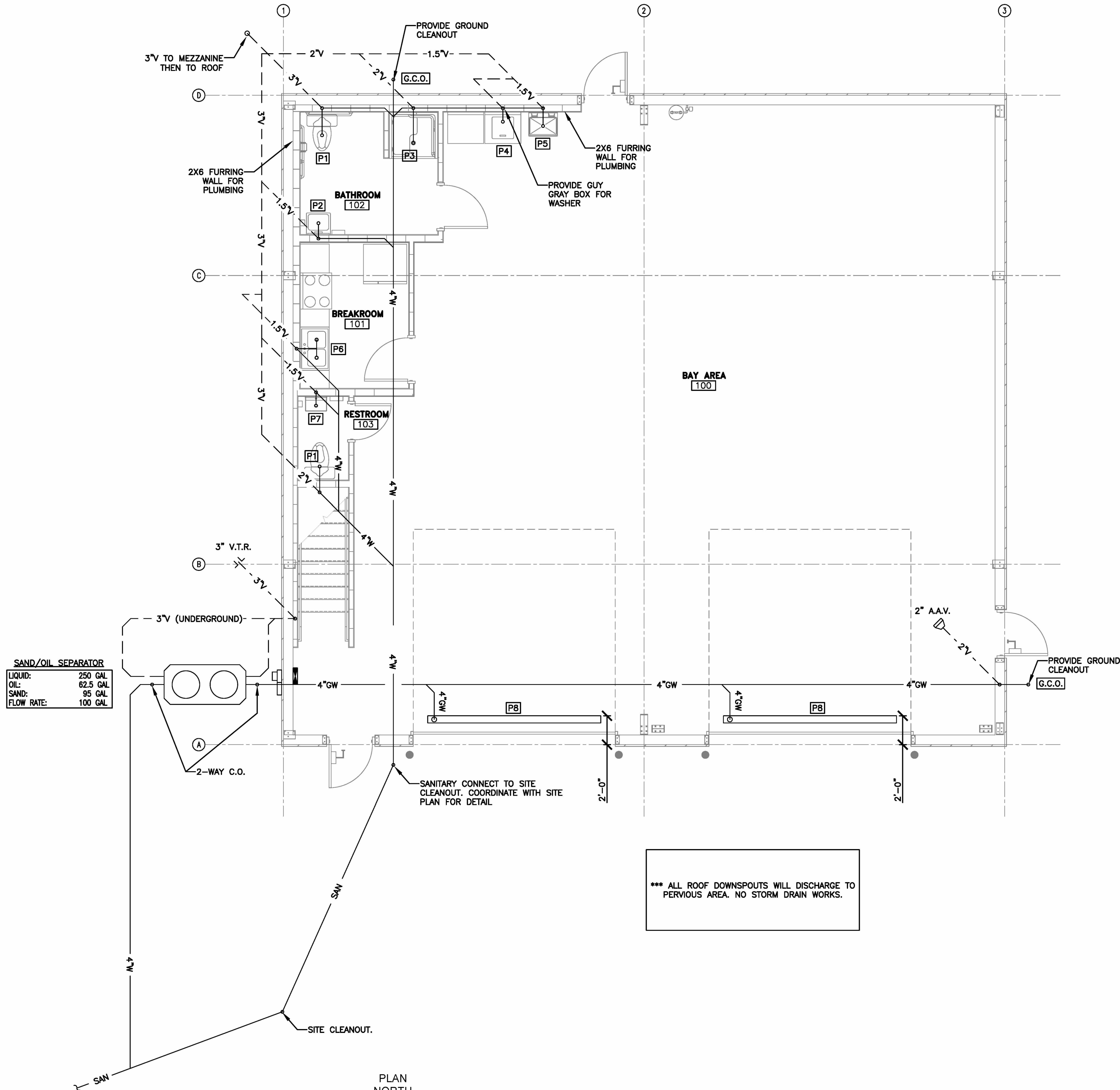
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Printed Date: 06/10/2025 - 10:33am



2 WASTE & VENT PLAN
MEZZANINE
SCALE: 1/4" = 1'-0"



1 WASTE & VENT PLAN
SCALE: 1/4" = 1'-0"

PERMITTING STAMP



10 JULY 2025

DESIGNED / CHECKED BY:	BJ
DRAWN BY:	BT
PROJECT #:	2025-04-02.2
DATE:	10 JULY 2025

FINAL DRAWING [] FOR REVIEW PURPOSES ONLY	OWNER/TENANT:
PRELIMINARY [] FOR DESIGN DEVELOPMENT ONLY	LUIS TIRADO
FINAL DRAWING [] FOR CONSTRUCTION	3077 OLD US 421 LILLINGTON, NC 27448
CONTRACTOR/BUILDER:	IBD

REV	DATE	DESCRIPTION
1	07/10/25	FINAL FOR CONS.

PROJECT: **TIRADO TRUCK SHOP**
US 421 SOUTH, HARNETT COUNTY, NC
SHEET: **PLUMBING - WASTE & VENT PLAN**

P2



JE JENKINS
CONSULTING ENGINEERS, PA.
OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
CORPORATION NUMBER C-3070 burdy@je-jenkins.com PRO
FESSIONAL ENGINEER FAYETTEVILLE, NC 28411-1022
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DESIGNED / CHECKED BY:	BJ
DRAWN BY:	BT
PROJECT #:	2025-04-02.2
DATE:	10 JULY 2025

FINAL DRAWING ☐ FOR REVIEW PURPOSES ONLY
PRELIMINARY ☐ FOR DESIGN DEVELOPMENT ONLY
FINAL DRAWING ☒ FOR CONSTRUCTION

OWNER/TENANT:
LUIS TIRADO
35577 OLD U.S. 421 LILLINGTON, NC 27146

CONTRACTOR/BUILDER:
TBD
TBD

REVISIONS:		
REV	DATE	DESCRIPTION
A	07/10/25	FINAL FOR CONS.

P3	PROJECT:	<i>TIRADO TRUCK SHOP</i> US 421 SOUTH, HARNETT COUNTY, NC
	SHEET:	PLUMBING – WATER & AIR PLANS