

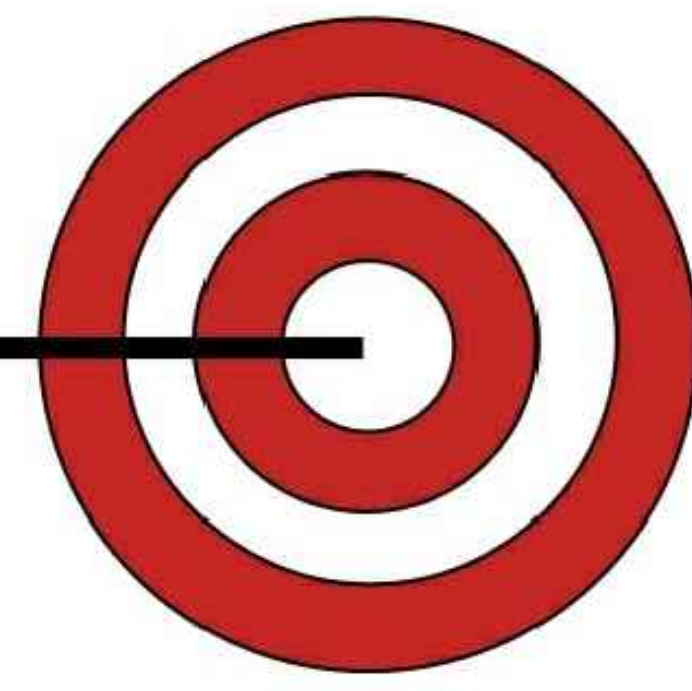
# BRYANT POLICE DEPARTMENT

## 2-LANE 70 FEET "TACTICAL" RIFLE RATED RANGE

### BRYANT, ARKANSAS

BY:

# SHOOTING RANGE INDUSTRIES, LLC



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M2	H.V.A.C. LAYOUT (SECTION VIEW)
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CUSTOMERS RESPONSIBILITIES
1. ANY SITE PREPARATION TO INCLUDE CONCRETE OR ASPHALT SURFACE THAT CAN WITHSTAND THE WEIGHT AND LOADS DEPICTED ON S1 OF THIS DESIGN PACKAGE. 2. ALL POWER SERVICE PROVISIONS TO INCLUDE FINAL CONNECTION TO THE MAIN DISCONNECT LOCATED ON THE READY RANGE UNIT. (150 AMP / 120/208V / 3 PHASE / 60 Hz)

#### RIFLE RATED RANGE

RIFLE TRAPS:
MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG, STEEL CORE OR ARMOR PIERCING ROUNDS.

SHOOTING RANGE INDUSTRIES LLC RESPONSIBILITIES
1. DESIGN, MANUFACTURE AND INSTALLATION OF DEPICTED MODULAR RANGE UNIT. 2. ANY AND ALL HEAVY EQUIPMENT REQUIRED TO UNLOAD (FREIGHT) AND PLACE UNIT ON PROVIDED FOUNDATION. THIS INCLUDES A 120 TON OR EQUAL CRANE AND FORKLIFT IF REQUIRED.

**FOR CONSTRUCTION**

**ATTENTION:**  
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**PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.**

CUSTOMER SIGN OFF:  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
△	FOR CONSTRUCTION	02-16-2022	VP

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**NOTE:**  
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Where this drawing relates to existing or completed construction the contractor shall check that there is no conflict between actual building dimensions and drawing dimensions.  
Written dimensions on these drawings shall have precedence over scaled dimensions.  
Contractor to verify and be responsible for all dimensions and conditions in the field. This office must be notified of any variations from the dimensions and conditions shown by these drawings, also details of adequate scale must be submitted to this office for approval before proceeding with fabrication on items so noted.  
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**NOTES**

ORTHOGRAPHIC PROJECTION

**MAINTENANCE AND RESPONSIBILITIES**  
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SRI, or anyone affiliated or partnered with SRI, will not be held liable for any negligence on the part of the structure personnel for any of the above items.  
Improper maintenance or repair of the structure(s) by any personnel or it's users for any of the aforementioned items, structure maintenance manuals have been provided with every range manufactured by SRI at time of purchase.  
1. H.V.A.C. systems must be in proper working condition and in operation at time of range operation and clean up. SRI is not responsible for this operation (interlocking system).  
2. Supply & exhaust air must "always" be on and operating at the same time (interlocked together).  
3. Structures must have a negative air pressure or a min. of 10% of total air supply.  
4. SRI is not liable for H.V.A.C. system maintenance, air quality, filtration maintenance and air filter change outs.  
5. No storage or work to be performed behind bullet traps at any time.  
6. SRI suggests lead handling & employee protection by the manual provided by the National Shooting Sports Foundation (NSSF).  
The purpose of this letter/notes is to make sure you, as structure owner, manager, operator, or maintenance personnel are doing your part to make sure all people who come in contact with your structure are safe and comfortable in the indoor structure environment.  
It is imperative that anyone involved in the operation, maintenance or repair of the structure(s) be diligent at minding all of the safety and operational standards that are set forth to ensure the safety of every shooter and employee that enters your place of business.  
Customer Initial: \_\_\_\_\_ Date: \_\_\_\_\_

**GENERAL NOTES**  
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2. If structure owner/operator does not understand any of the above operations, lead management, structure safety or will not accept responsibility they should immediately cease all operations to prevent employees and/or customers against health problems or bodily harm.  
3. SRI has incorporated the customer's specified wall and ceiling ballistic protection in the building design as has been called out in the customer's design requirements, as such, the customer takes full responsibility to ensure that no ammunition is fired in the range that could exceed the design capabilities the customer has specified in the design requirements. The customer is solely responsible for proper range operation, range maintenance, and range safety in accordance with the range training and maintenance manual.

**SHOOTING RANGE INDUSTRIES, LLC**  
RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MILO**

3885 ROCKBOTTOM STREET  
NORTH LAS VEGAS, NV 89030  
Tel: (702) 362-3623  
Fax: (702) 310-6978

Project Title  
**BRYANT POLICE DEPARTMENT  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372**

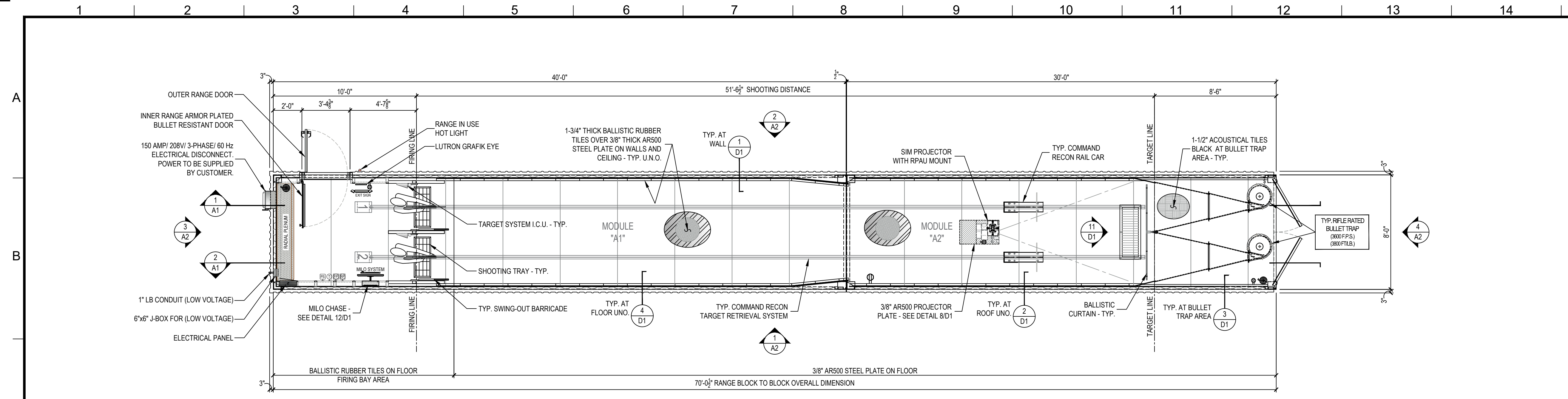
Drawing Title  
**COVER SHEET**

Drawn	Date	Checked	Date	Approved	Date
VP	02-03-2022	MH	02-03-2022	JC	02-03-2022
Project No. SRI22103		Scale AS NOTED		Sheet No. A0	
Drawing No. 22-103 Bryant PD		Sheet 1 of 8		Rev. -	

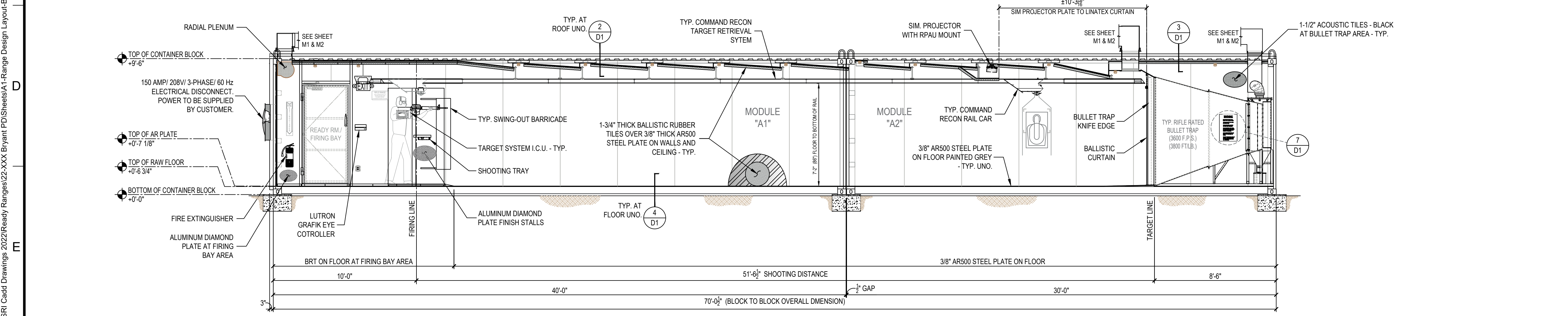
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Plot Date: 3/10/2022 7:36:43 AM

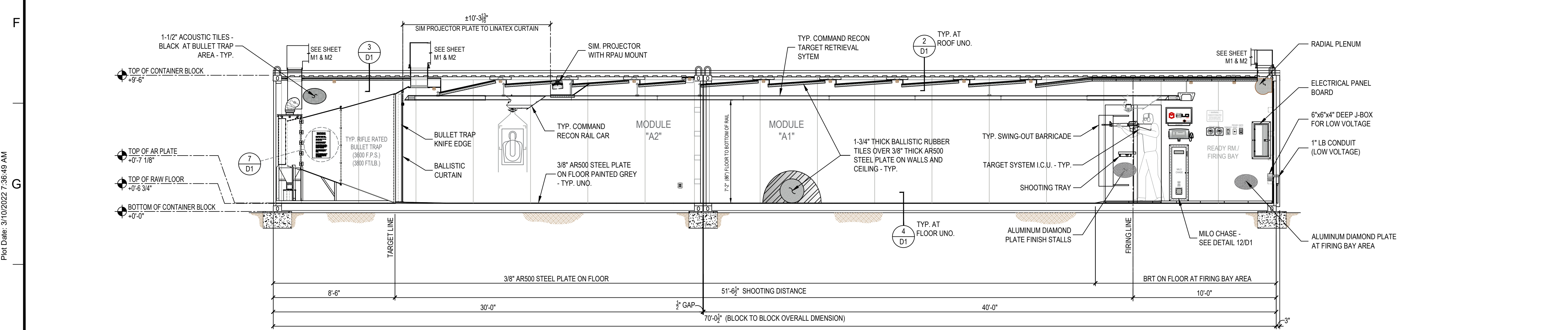
Login: Vince Parrin



**PLAN VIEW - RANGE DESIGN LAYOUT**  
SCALE: 1/4" = 1'-0"



**1 LONGITUDINAL SECTION - RANGE LAYOUT**  
SCALE: 1/4" = 1'-0"



**2 LONGITUDINAL SECTION - RANGE LAYOUT**  
SCALE: 1/4" = 1'-0"

SYMBOL SCHEDULE:	
SYMBOL	DESCRIPTION
	DUPLEX ELECTRICAL RECEPTACLE (PLAN)
	DUPLEX ELECTRICAL RECEPTACLE (ELEV)
	QUADRUPLEX ELECTRICAL RECEPTACLE (PLAN)
	QUADRUPLEX ELECTRICAL RECEPTACLE (ELEV)
	LUTRON GRAFIK EYE 3000 CONTROLLER 120 VOLT
	ZL TN SERIES LED STRIP LIGHT FIXTURE (DIMMABLE) 120 VOLT
	THERMOSTAT
	FILTER PRESSURE
	RANGE PRESSURE
	PRESSURE SENSOR
	FIRE EXTINGUISHER (WALL MOUNTED)
	BALLISTIC RUBBER TILE
	SONEX SOUND TILE
	POLISHED ALUMINUM DIAMOND TREAD PLATE
	3/8" AR-500 STEEL PLATE

**NOTES**

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SRI, or anyone affiliated or partnered with SRI, will not be held liable for any negligence on the part of the structure personnel for any of the above items.

Improper maintenance or repair of the structure(s) by any personnel or its users for any of the aforementioned items, should the manufacturer's manuals have been provided with every range manufactured by SRI at time of purchase.

- H.V.A.C. systems must be in proper working condition and in operation at time of range operation and clean up. SRI is not responsible for this operation (interlocking system).
- Supply & exhaust air must "always" be on and operating at the same time (interlocked together).
- Structures must have a negative air pressure or a min. of 10% of total air supply.
- SRI is not liable for H.V.A.C. system maintenance, air quality, filtration maintenance and air filter change outs.
- No storage or work to be performed behind bullet traps at any time.
- SRI suggests lead handling & employee protection by the manual provided by the National Shooting Sports Foundation (NSSF).

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It is imperative that anyone involved in the operation, maintenance or repair of the structure(s) be diligent at minding all of the safety and operational standards that are set forth to ensure the safety of every shooter and employee that enters your place of business.

**GENERAL NOTES**

- Air system comes as a completely balanced system by factory certified H.V.A.C. specialists however, it is the customer's responsibility to maintain a balanced air system.
- If structure owner/operator does not understand any of the above operations, lead management, structure safety or will not accept responsibility they should immediately cease all operations to prevent employees and/or customers against health problems or bodily harm.
- SRI has incorporated the customer's specified wall and ceiling ballistic protection in the building design as has been called out in the customer's design requirements, as such, the customer takes full responsibility to ensure that no ammunition is fired in the range that could exceed the design capabilities the customer has specified in the design requirements. The customer is solely responsible for proper range operation, range maintenance, and range safety in accordance with the range training and maintenance manual.

**RIFLE TRAPS:**  
MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG. STEEL CORE OR ARMOR PIERCING ROUNDS.

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CUSTOMER SIGN OFF:  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

**SHOOTING RANGE INDUSTRIES LLC**  
RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MILO**

3885 ROCKBOTTOM STREET  
NORTH LAS VEGAS, NV 89030  
Tel: (702) 362-3623  
Fax: (702) 310-6978

Project Title  
**BRYANT POLICE DEPARTMENT  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372**

Drawing Title  
**RANGE DESIGN LAYOUT  
(PLAN & SECTION VIEW)**

REVISION	DESCRIPTION	DATE	BY	Drawn	Date	Checked	Date	Approved	Date
1	FOR CONSTRUCTION	02-16-2022	VP	VP	02-03-2022	MH	02-03-2022	JC	02-03-2022

Project No.	Scale	Sheet No.
SRI22103	AS NOTED	A1
Drawing No.	22-103 Bryant PD	
Sheet	2 of 8	

File Path: C:\SRI\Cadd Drawings\2022\Ready Ranges\22-XXX-Bryant PD\Sheets\A1 - Range Design Layout-Bryant PD.dwg  
Plot Date: 3/10/2022 7:56:49 AM  
Login: Vince Parrin

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**NOTES**

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SRI, or anyone affiliated or partnered with SRI, will not be held liable for any negligence on the part of the structure personnel for any of the above items.

Improper maintenance or repair of the structure(s) by any personnel or its users for any of the aforementioned items, structure maintenance manuals have been provided with every range manufactured by SRI at time of purchase.

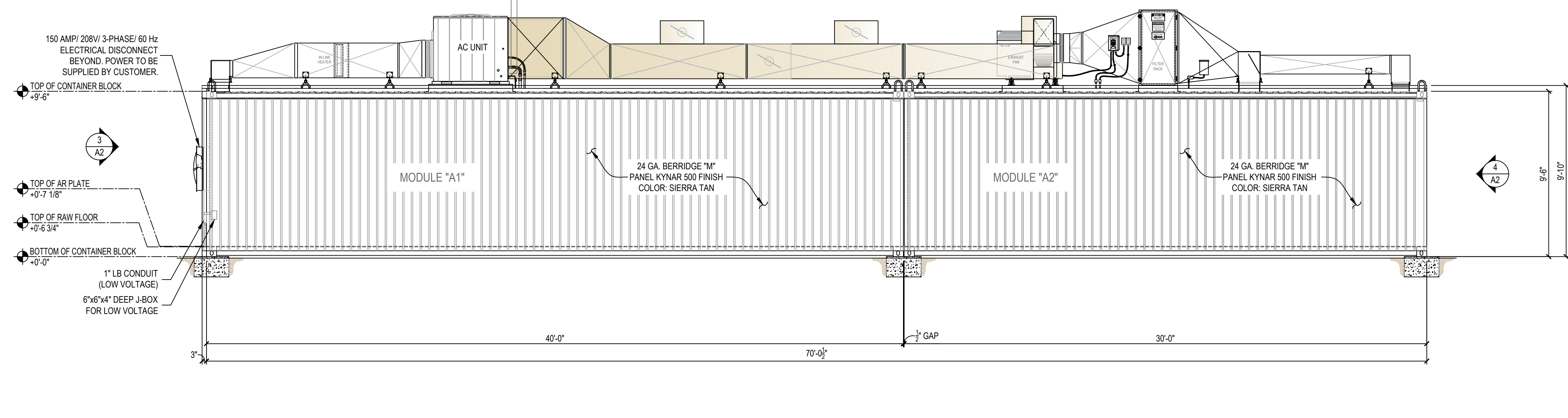
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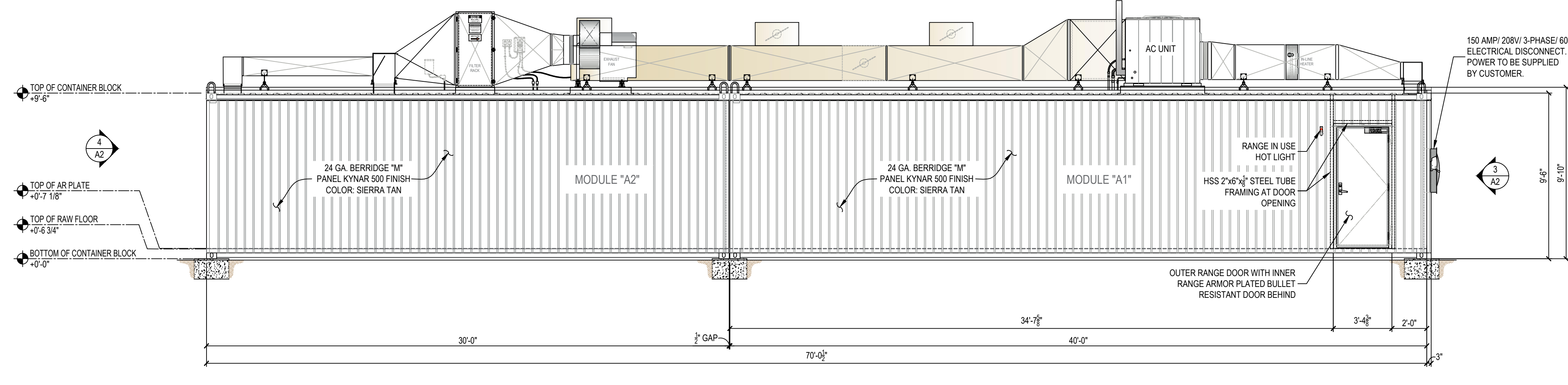
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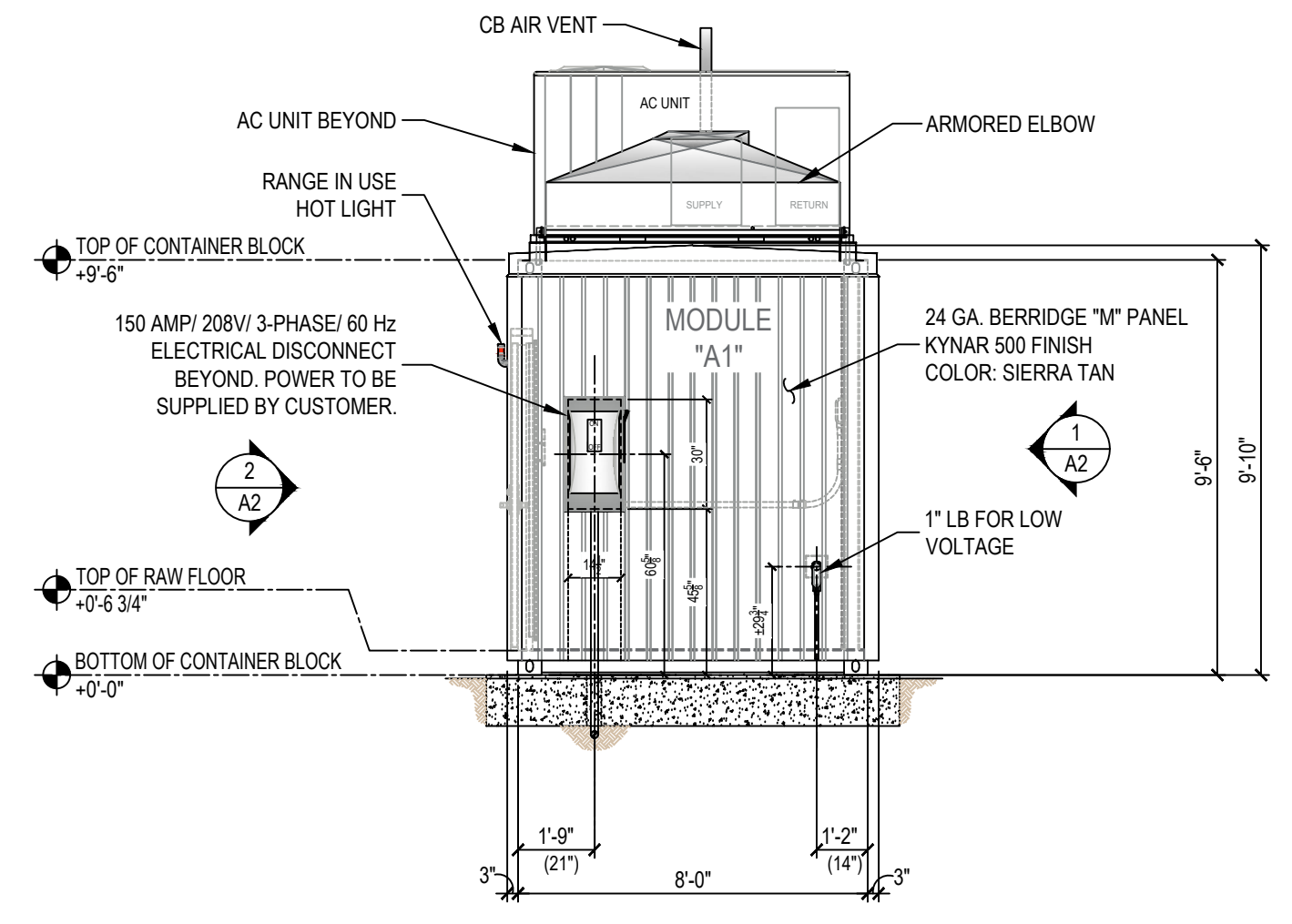
**1 EXTERIOR ELEVATION - NORTH SIDE**

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



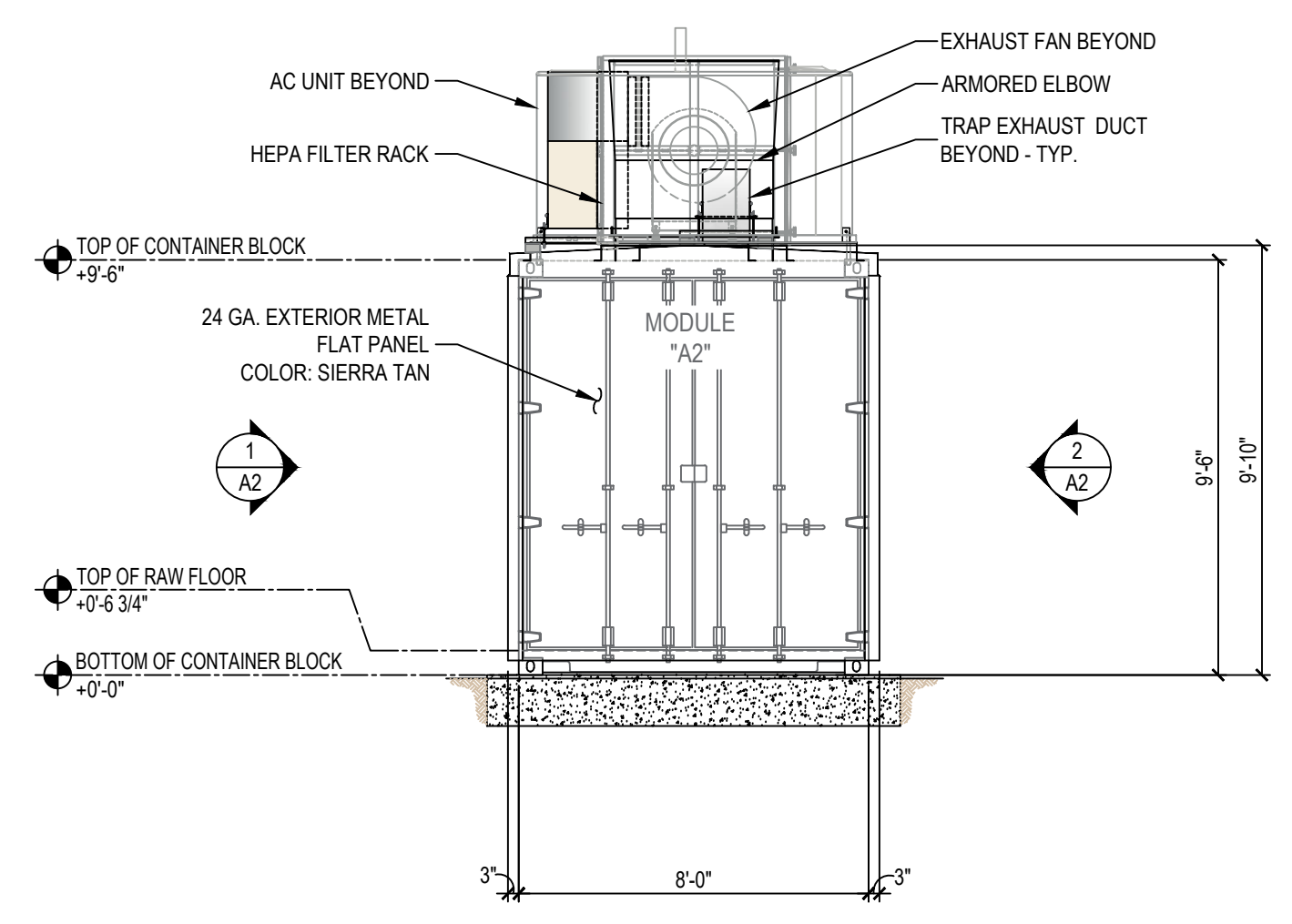
**2 EXTERIOR ELEVATION - SOUTH SIDE**

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



**3 EXTERIOR ELEVATION - EAST SIDE**

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



**4 EXTERIOR ELEVATION - WEST SIDE**

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

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CUSTOMER SIGN OFF:  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

**SHOOTING RANGE INDUSTRIES LLC**  
RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MILD**

3885 ROCKBOTTOM STREET  
NORTH LAS VEGAS, NV 89030  
Tel: (702) 362-3623  
Fax: (702) 310-6978

Project Title  
**BRYANT POLICE DEPARTMENT  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372**

Drawing Title  
**EXTERIOR ELEVATIONS  
(PLAN & SECTION VIEW)**

REVISION	DESCRIPTION	DATE	BY	Drawn	Date	Checked	Date	Approved	Date
1	FOR CONSTRUCTION	02-16-2022	VP	VP	02-03-2022	MH	02-03-2022	JC	02-03-2022

Project No.	Scale	Sheet No.
SRI22103	AS NOTED	A2
Drawing No.	Sheet 3 of 8	
22-103 Bryant PD	-	

LIGHTING FIXTURE SCHEDULE								
QTY.	SYMBOL	BRAND	MODEL NO.	VOLTAGE	REQUIRED LAMPS		MOUNTING	REMARKS
					NUM.	TYPE		
12		LITHONIA	ZL1N	120V - 277V	1	0-10V DIMMING STD. NPF160 NIGHT SWITCHING DIMMING MODULE (3,600 LUMENS)	CEILING	LED STRIPLIGHT, SNAP ON FROSTED, DIFFUSE
1		LITHONIA	LHQM S W 3 R 120/277	120V - 277V	1	3.3 FIXTURE WATTS, LED EXIT, KRYPTON LAMP HEAD	WALL	COMBINATION EMERGENCY LIGHT AND EXIT FIXTURE

SYMBOL SCHEDULE:	
SYMBOL	DESCRIPTION
	DUPLEX ELECTRICAL RECEPTACLE (PLAN)
	DUPLEX ELECTRICAL RECEPTACLE (ELEV)
	QUADRUPLEX ELECTRICAL RECEPTACLE (PLAN)
	QUADRUPLEX ELECTRICAL RECEPTACLE (ELEV)
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	ZL1N SERIES LED STRIP LIGHT FIXTURE (DIMMABLE) 120 VOLT
	THERMOSTAT
	FILTER PRESSURE
	RANGE PRESSURE
	PRESSURE SENSOR
	FIRE EXTINGUISHER (WALL MOUNTED)
	BALLISTIC RUBBER TILE
	SONEX SOUND TILE
	POLISHED ALUMINUM DIAMOND TREAD PLATE
	3/8" AR-500 STEEL PLATE

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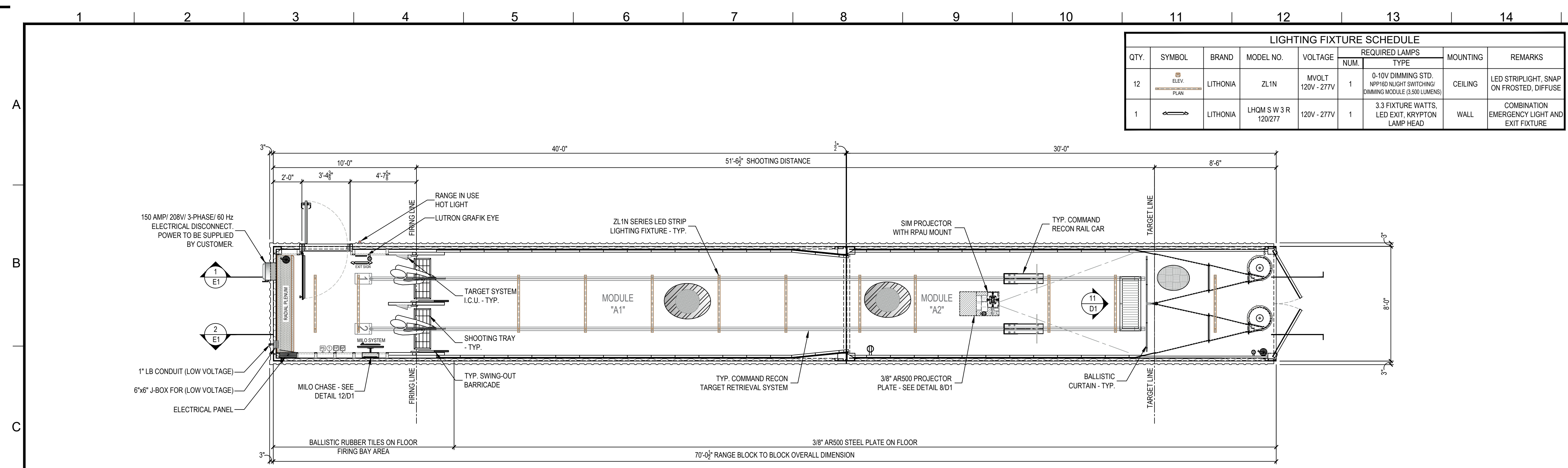
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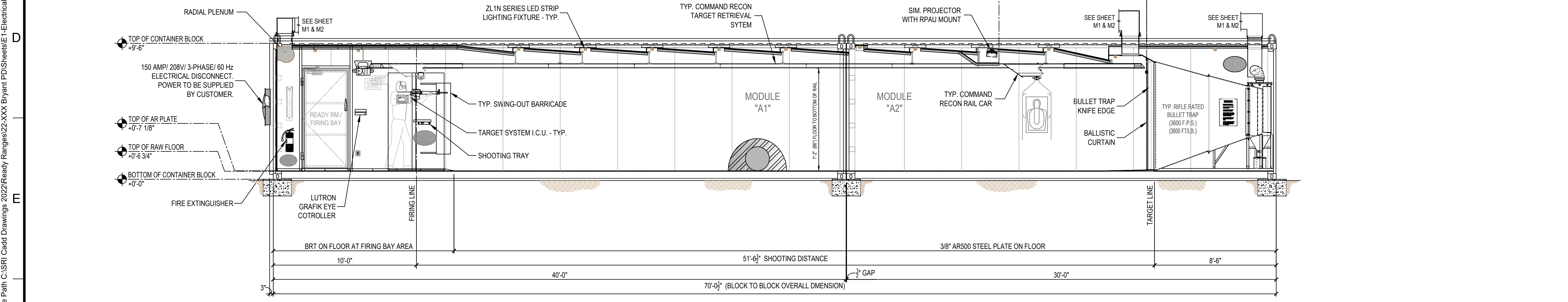
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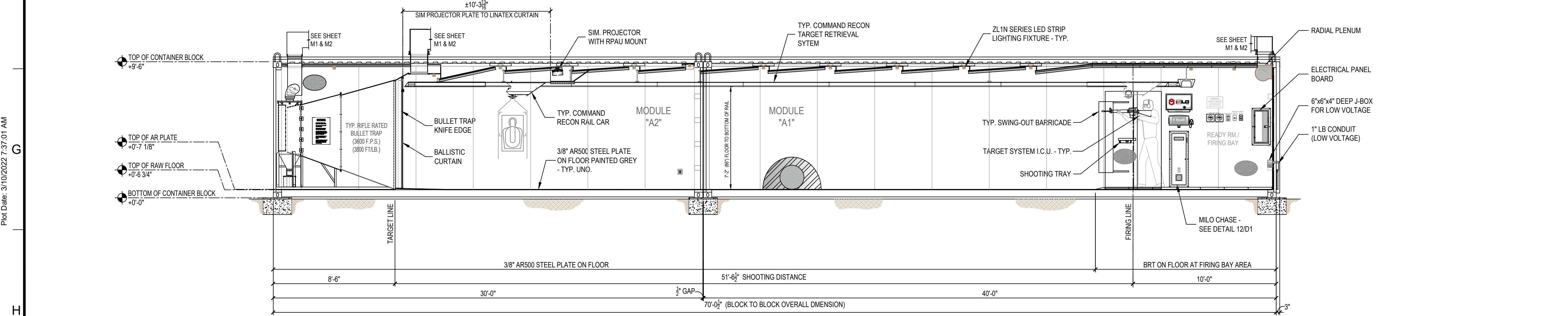
**PLAN VIEW - ELECTRICAL LAYOUT**

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



**1 LONGITUDINAL SECTION - ELECTRICAL LAYOUT**

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



**2 LONGITUDINAL SECTION - ELECTRICAL LAYOUT**

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

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 MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG, STEEL CORE OR ARMOR PIERCING ROUNDS.

**FOR CONSTRUCTION**

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CUSTOMER SIGN OFF:  
 DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
VP	FOR CONSTRUCTION	02-16-2022	VP

**SHOOTING RANGE INDUSTRIES, LLC**  
 RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MILO**

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 312 ROYAL LANE, BRYANT, AR 72022  
 PHONE NO. (501) 943-0372

Drawing Title  
**ELECTRICAL LAYOUT**  
 (PLAN & SECTION VIEW)

Drawn	Date	Checked	Date	Approved	Date
VP	02.03.2022	MH	02.03.2022	JC	02.03.2022

Project No. SRI22103 Scale AS NOTED Sheet No. E1 of 8

Drawing No. 22-103 Bryant PD

File Path: C:\SRI\Cadd Drawings\2022\Ready Ranges\22-XXX-Bryant PD\Sheets\E1-Electrical Layout-Bryant PD.dwg

Plot Date: 3/10/2022 7:37:01 AM

Login: Vince Parrin

EXHAUST FAN SCHEDULE																
UNIT NO.	SERVICE	LOCATION	FAN DATA				MOTOR/ELECTRICAL DATA				ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS			
			CFM	S.P. IN W/G	RPM	FAN TYPE	DRIVE	HP	INPUT WATTS	VOLTS				PH	HZ	RPM
EF-1	FIRING RANGE	ROOF	4,400	2.5	1,980	BW1	BELT	5.0			230/460	3	60	1,755	357.98	DAYTON 7H171

ROOF TOP UNIT SCHEDULE																								
UNIT NO.	SERVICE	FAN TYPE	FAN DATA			ELECTRICAL DATA			COOLING COIL SECTION				GAS HEAT SECTION			COMPRESSOR SECTION		ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS				
			CFM	ESP	BHP	HP	VOLTS	PH	MROPO (A)	MCA (A)	CAPACITY Btu/hr	ENT. TEMP (F) DB	LEA. TEMP (F) WB	AMBIENT DB (F)	CAPACITY INPUT MBH	OUTPUT MBH	EAT. (F)				LEA. (ARR)	HEAT CONTROL	CAPACITY CONTROL	POWER AMPS
AC-1	FIRING RANGE	F	4,000	0.75		3	208	3		49.0		80	67		95	150	105	70		2 STAGE	R-L-L-R 19.6/136.0	R410	1058 NET (1156 SHIPPING)	TRANE YSC0120H3ELA
IH-1	FIRING RANGE		1,222				208	3															13.20 NET	WATCO DFC00H

DAMPER SCHEDULE - SEQUENCE OF OPERATION			
PRIMARY OPERATION - PURGE SYSTEM		EXTREME OPERATION - PARTIAL RECIRCULATION	
D1	100% OPEN	D1	10% OPEN
D2	100% CLOSED	D2	75% OPEN (BALANCED TO MAINTAIN NEGATIVE PRESSURE)
D3	100% OPEN	D3	40% OPEN (BALANCED TO MAINTAIN NEGATIVE PRESSURE)

### H.V.A.C. REFERENCE KEYNOTES

AC 1 = 10 TON GAS PACKAGE A/C UNIT "TRANE"  
INPUT: 150,000 BTU / OUTPUT: 120,000 BTU  
208-230V / 60 Hz / 3 PHASE MODEL # YSC120H3ELA

EF 1 = ROOF MOUNTED EXHAUST FAN "DAYTON"  
MODEL #7H171 5.0 HP, 208V / 60 Hz / 3 PHASE 12.50 AMP F.L.A. NEMA 3R

FR 1 = 99.97% 0.3 MICRON HEPA FILTER RACK WITH (4) - 24"x24"x12" SUPERFLO-V FILTERS AND (4) - 24"x24"x2" PLEATED PRE-FILTERS

VFD 1 = VEG VARIABLE FREQUENCY DRIVE, 5 MAX HP, 3 INPUT PHASE AC 240VAC INPUT VOLTAGE, 16 AMPS, MAX. OUTPUT MODEL NO. CFW081601D4A1Z

IH 1 = 15.0 KW / 41.64 AMP / 208V / 3-PHASE / 1,222 CFM / 400 FPM DUCT HEATER "WATCO" MODEL # DF C00H

PG 1, 2 = (2) - DWYER MAGNETIC PRESSURE GAUGE MODEL NO. 3000-00N C / 2000-00N C MAX PRESSURE 15 PSIG

TH 1 = NEPTRONIC VAV THERMOSTAT CONTROLLER - 22 TO 28VAC 50/60 Hz POWER SUPPLY 32°F TO 122°F OPERATING TEMPERATURE MODEL NO. TR02414XZ1

### NOTES

ORTHOGRAPHIC PROJECTION

MAINTENANCE AND RESPONSIBILITIES  
**NOTICE TO ALL SHOOTING OWNERS, MANAGERS & OPERATORS:**  
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SRI or anyone affiliated or partnered with SRI will not be held liable for any negligence on the part of the structure personnel for any of the above items.

Improper maintenance or repair of the structure(s) by any personnel or it's users for any of the above mentioned items, structure maintenance manuals have been provided with every range manufactured by SRI at time of purchase.

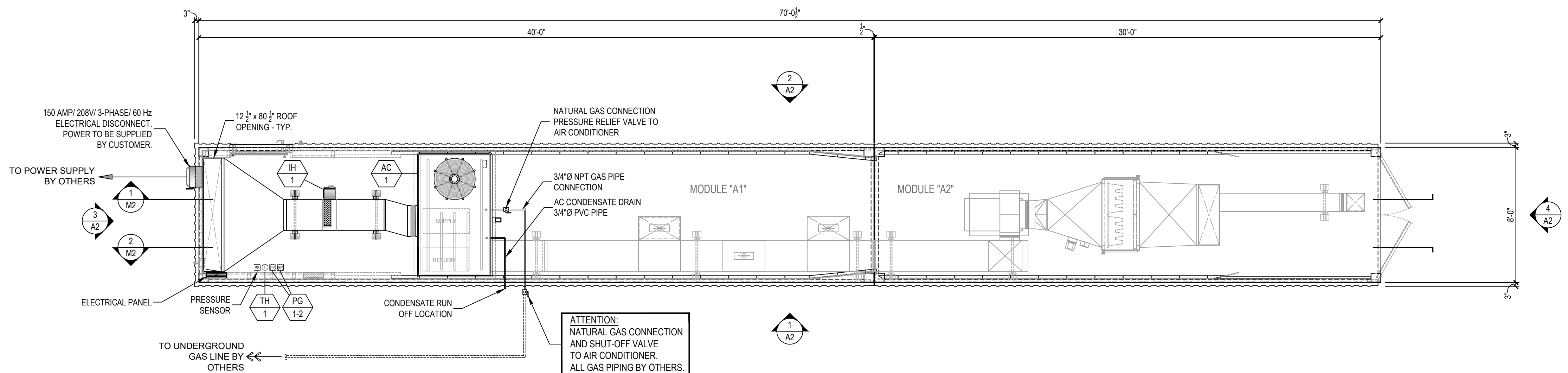
- H.V.A.C. systems must be in proper working condition and in operation at time of range operation and clean up. SRI is not responsible for the operation (interlocking system)
- Supply & exhaust air must "always" be on and operating at the same time (interlocked together)
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- SRI is not liable for H.V.A.C. system maintenance, air quality, filtration maintenance and air filter change outs.
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The purpose of this letter/notes is to make sure you, as structure owner, manager, operator, or maintenance personnel are doing your part to make sure all people who come in contact with your structure are safe and comfortable in the indoor structure environment.

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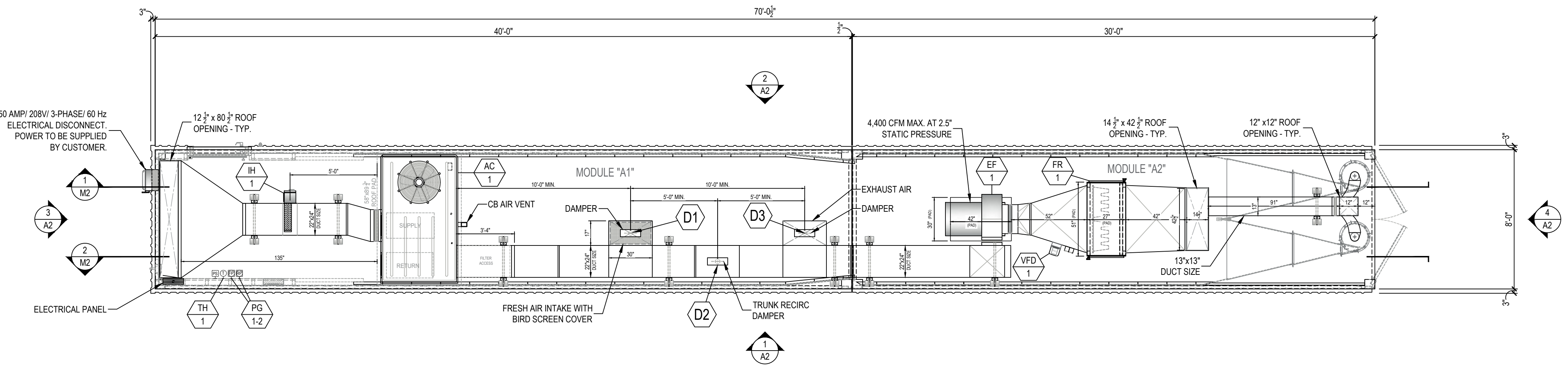
### GENERAL NOTES

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PLAN VIEW - UTILITY LAYOUT

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



PLAN VIEW - H.V.A.C. LAYOUT

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



**RIFLE TRAPS:**

MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG, STEEL CORE OR ARMOR PIERCING ROUNDS.

**FOR CONSTRUCTION**

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CUSTOMER SIGN OFF:

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
VP	FOR CONSTRUCTION	02-16-2022	VP

**SHOOTING RANGE INDUSTRIES LLC**  
RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MILD**

3885 ROCKBOTTOM STREET  
NORTH LAS VEGAS, NV 89030  
Tel: (702) 362-3623  
Fax: (702) 310-6978

Project Title  
**BRYANT POLICE DEPARTMENT  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372**

Drawing Title  
**H.V.A.C. LAYOUT  
UTILITY LAYOUT  
(PLAN VIEW)**

Drawn	Date	Checked	Date	Approved	Date
VP	02.03.2022	MH	02.03.2022	JC	02.03.2022

Project No. SRI22103  
Scale: AS NOTED  
Sheet No. M1  
Sheet 5 of 8

Drawing No. 22-103 Bryant PD

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Plot Date: 3/10/2022 7:37:07 AM

Login: Vince Parrin

EXHAUST FAN SCHEDULE																
UNIT NO.	SERVICE	LOCATION	FAN DATA				MOTOR/ELECTRICAL DATA				ESTIMATED WEIGHT (LBS)	BASIS OF DESIGN	REMARKS			
			CFM	S.P. IN WG	RPM	FAN TYPE	DRIVE	HP	INPUT WATTS	VOLTS				PH	HZ	RPM
EF-1	FIRING RANGE	ROOF	4,400	2.5	1,980	BWI	BELT	5.0			230/460	3	60	1,755	357.98	DAYTON 7H171

ROOF TOP UNIT SCHEDULE																										
UNIT NO.	SERVICE	FAN TYPE	FAN DATA			ELECTRICAL DATA			COOLING COIL SECTION				GAS HEAT SECTION			COMPRESSOR SECTION			ESTIMATED WEIGHT (LBS)	BASIS OF DESIGN	REMARKS					
			CFM	ESP	BHP	HP	VOLTS	PH	MROP (A)	MCA (A)	CAPACITY Btu/hr	ENT. TEMP (F) DB	WB	LEA. TEMP (F) DB	WB	AMBIENT DB (F)	CAPACITY INPUT MBH	OUTPUT MBH				EAT (F)	LEA. (ARR)	HEAT CONTROL	CAPACITY CONTROL	POWER AMPS
AC-1	FIRING RANGE	F	4,000	0.75		3	208	3		49.0		80	67		95	150	105	70			2 STAGE	R-L-L-R 19.6/136.0	R410	1058 NET (1156 SHPPING)	TRANE YSC0120H3ELA	
IH-1	FIRING RANGE		1,222				208	3																13.20 NET	WATCO DFC00H	

DAMPER SCHEDULE - SEQUENCE OF OPERATION			
PRIMARY OPERATION - PURGE SYSTEM		EXTREME OPERATION - PARTIAL RECIRCULATION	
D1	100% OPEN	D1	10% OPEN
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H.V.A.C. REFERENCE KEYNOTES	
AC	AC = 10 TON GAS PACKAGE AC UNIT "TRANE" INPUT: 150,000 BTU / OUTPUT: 120,000 BTU 208-230V / 60 Hz / 3 PHASE MODEL # YSC120H3ELA
EF	EF = ROOFBRACKET MOUNTED EXHAUST FAN "DAYTON" MODEL # 7H171 5.0 HP, 208V / 60 Hz / 3 PHASE 12.50 AMP F.L.A. NEMA 3R
FR	FR 99.97% 0.3 MICRON HEPA FILTER RACK WITH (4) - 24"x24"x4" SUPERFLOW FILTERS AND (4) - 24"x24"x2" PLEATED PRE-FILTERS
VFD	VFD VARIABLE FREQUENCY DRIVE, 5 MAX HP, 3 INPUT PHASE AC 240VAC INPUT VOLTAGE, 16 AMPS, MAX. OUTPUT MODEL NO. CFW081601D4A1Z
IH	15.0 KW / 41.64 AMP / 208V / 3-PHASE / 1,222 CFM / 400 FPM DUCT HEATER "WATCO" MODEL # DF C100H
PG	(2) - DWYER MAGNEHELIC PRESSURE GAUGE MODEL NO. 3000-00N C / 2000-00N C MAX PRESSURE 15 PSIG
TH	NEPTRONIC VAV THERMOSTAT CONTROLLER - 22 TO 28VAC 50/60 Hz POWER SUPPLY 32°F TO 122°F OPERATING TEMPERATURE MODEL NO. TR02414XZ1

**NOTES:**  
 1. The information disclosed in this document contains proprietary data of Shooting Range Industries, LLC. All rights reserved. No part of this document/drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the written consent of the intellectual copyright owner, application for which can be made to Shooting Range Industries, LLC 3885 Rockbottom St., N. Las Vegas, NV 89030. Patent pending.

2. Drawings must be sealed where no dimensions are given, the matter shall be referred to the engineer.

3. Should dimensions or details on these drawings conflict, precedence shall be given to the larger scale drawing.

4. Where this drawing relates to existing or completed construction the contractor shall check that there is no conflict between actual building dimensions and drawing dimensions. Written dimensions on these drawings shall have precedence over scaled dimensions. Contractor to verify and be responsible for all dimensions and conditions in the field. This office must be notified of any variations from the dimensions and conditions shown by these drawings, also details of adequate scale must be submitted to this office for approval before proceeding with fabrication on items so noted. Such conflicts noted above shall be reported immediately to the engineer.

**NOTES:**  
 ORTHOGRAPHIC PROJECTION

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**H.V.A.C. SEQUENCE OF OPERATIONS**

- EACH MODULE HVAC SYSTEM SHALL BE ACTIVATED BY SWITCH (THERMOSTAT) ON WALL.
- UPON ACTIVATION, THE EXHAUST FAN AND ROOFTOP UNIT SUPPLY FAN SHALL BE ENABLED. ALL FANS SHALL OPERATE AT CONSTANT SPEED TO MAINTAIN PROPER VELOCITY AND PRESSURIZATION INSIDE MODULE.
- THE SPACE TEMPERATURE SHALL BE CONTROLLED VIA THE THERMOSTAT TO MAINTAIN SETPOINT. COOLING WILL BE ACCOMPLISHED IN TWO (2) STAGES, VIA THE MULTI-STAGE COMPRESSOR. HEATING WILL BE ACCOMPLISHED IN FOUR (4) STAGES, VIA THE ROOFTOP UNITS GAS HEATER AND ELECTRIC HEAT STRIP LOCATED IN THE DUCT. THE ELECTRIC HEAT STRIP SHALL OPERATE AS THE PRIMARY HEATING SOURCE, AND THE ROOFTOP UNIT GAS HEATING SECTION SHALL OPERATE WHEN THE HEAT PUMP IS UNABLE TO MAINTAIN THE HEATING TEMPERATURE SETPOINT.

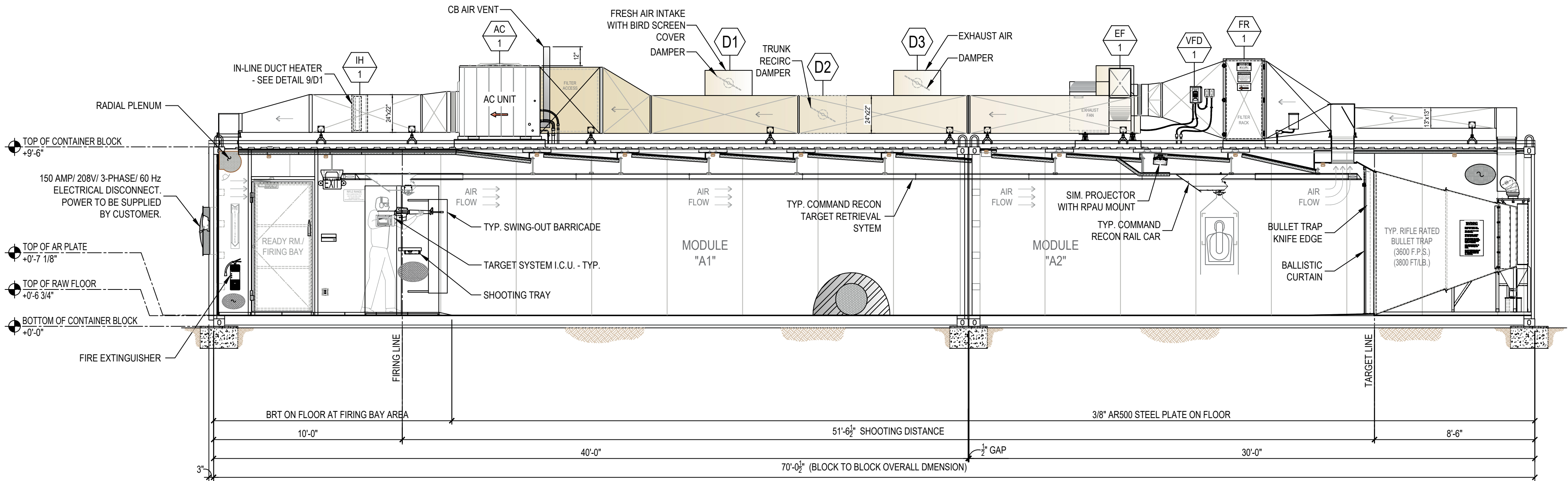
SRI or anyone affiliated or partnered with SRI will not be held liable for any negligence on the part of the structure personnel for any of the above items.

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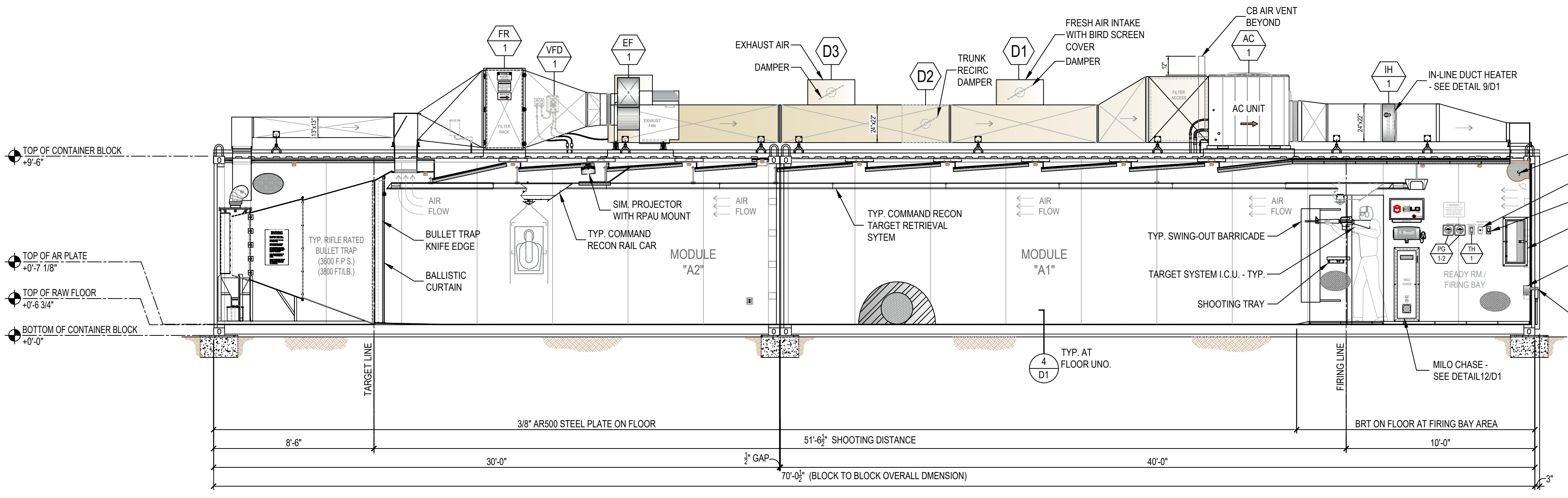
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**1 LONGITUDINAL SECTION - H.V.A.C. LAYOUT**  
 SCALE: 1/4" = 1'-0"



**2 LONGITUDINAL SECTION - H.V.A.C. LAYOUT**  
 SCALE: 1/4" = 1'-0"

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 MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG, STEEL CORE OR ARMOR PIERCING ROUNDS.

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CUSTOMER SIGN OFF:  
 DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
1	FOR CONSTRUCTION	02-16-2022	VP

**SHOOTING RANGE INDUSTRIES LLC**  
 RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MIL0**

3885 ROCKBOTTOM STREET  
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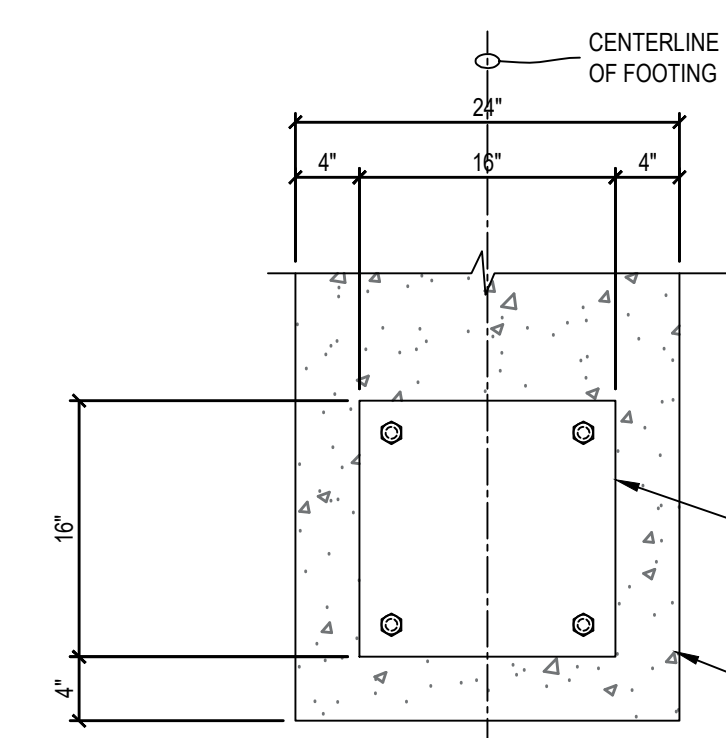
Project Title  
**BRYANT POLICE DEPARTMENT**  
 2-LANE 70 FEET HIGH CUBE  
 "TACTICAL" RIFLE RATED RANGE  
 312 ROYAL LANE, BRYANT, AR 72022  
 PHONE NO. (501) 943-0372

Drawing Title  
**H.V.A.C. LAYOUT**  
 (PLAN AND SECTION VIEW)

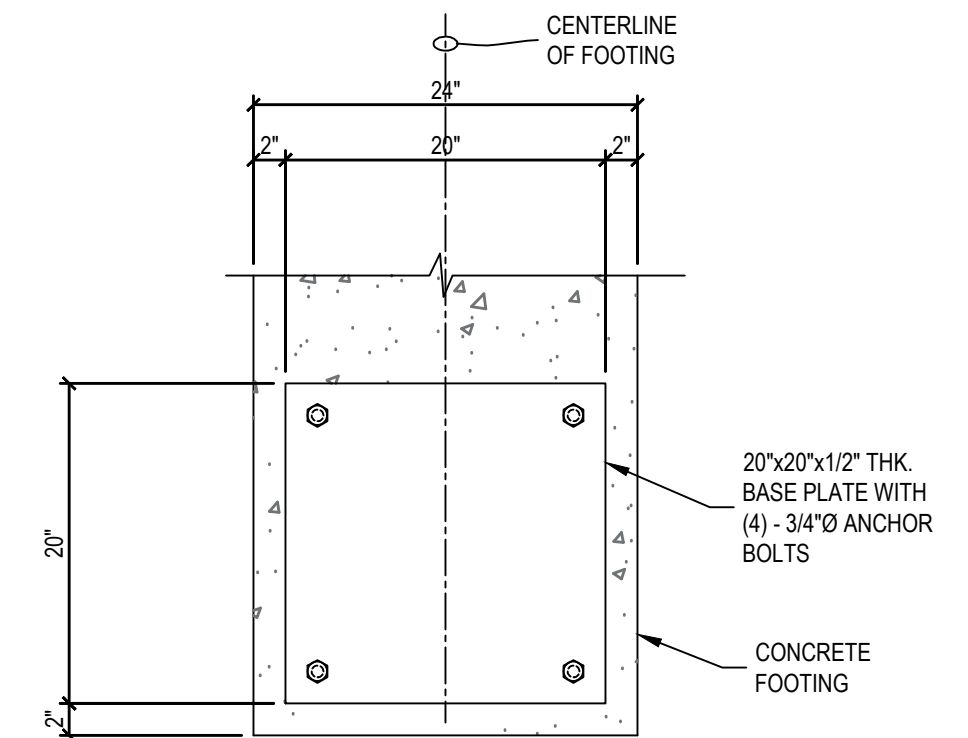
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 Drawing No. Sheet 6 of 8  
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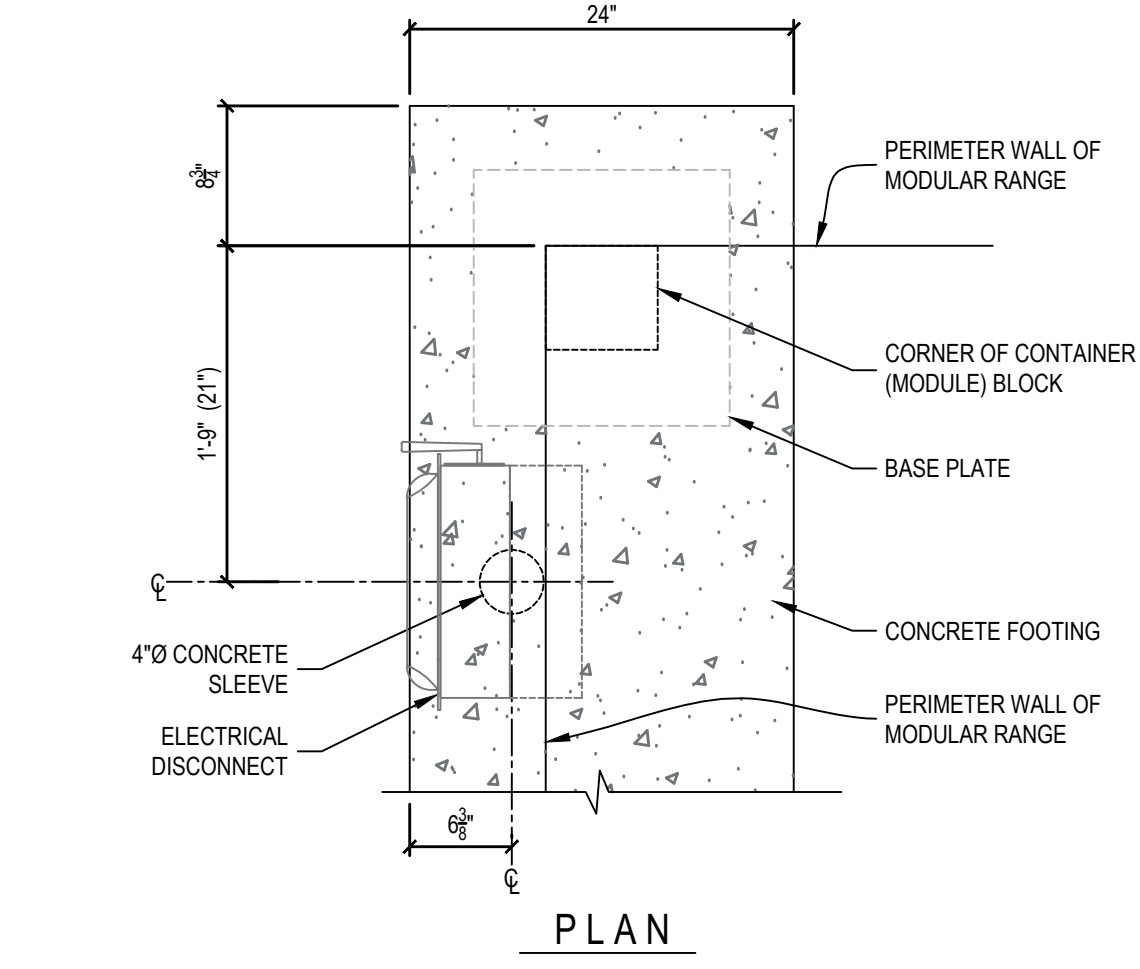
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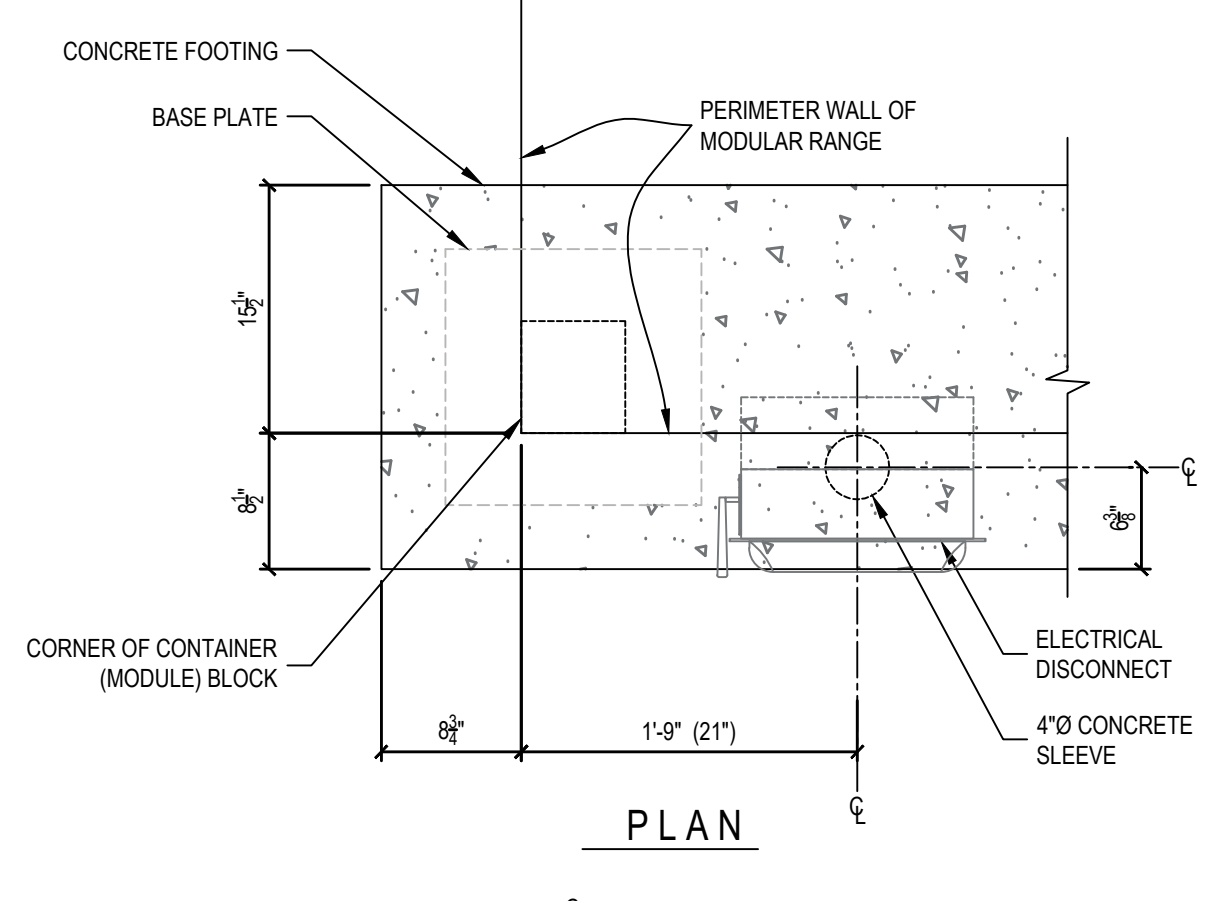
**BASE PLATE PLAN**



**BASE PLATE PLAN**



**SECTION**



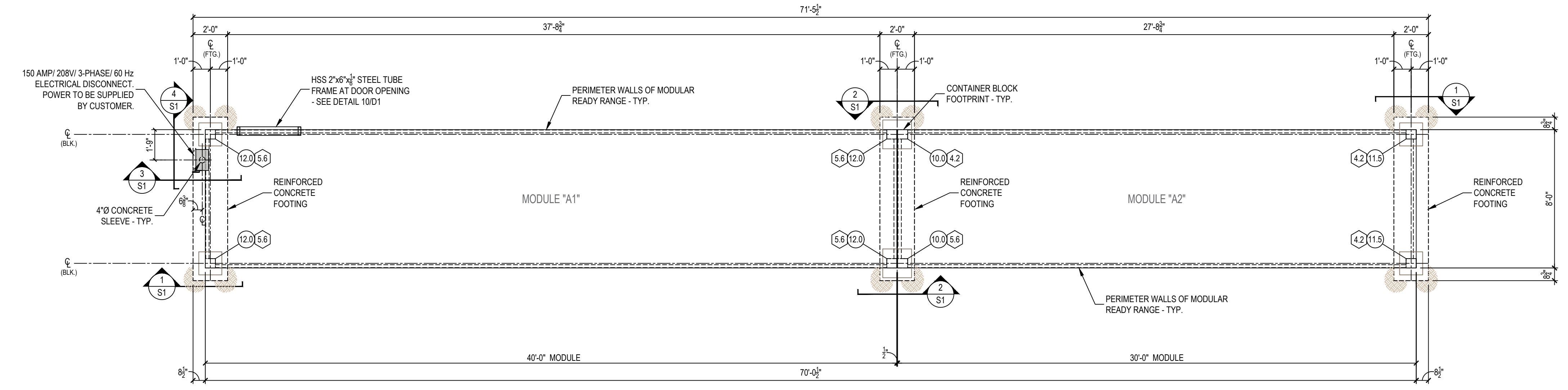
**SECTION**

**1 FOOTING DETAIL AT END CONDITION**  
SCALE: N.T.S.

**2 FOOTING DETAIL AT SEAM CONDITION**  
SCALE: N.T.S.

**3 FOOTING DETAIL AT ELECTRICAL DISCONNECT**  
SCALE: N.T.S.

**4 FOOTING DETAIL AT ELECTRICAL DISCONNECT**  
SCALE: N.T.S.



**PLAN VIEW - FOOTING LAYOUT AND LOAD REACTIONS TO FOUNDATION**

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



DEAD LOAD KEYNOTES	
(10.0)	10,000 LBS. (BASED ON UNFACTORED LOAD)
(11.5)	11,500 LBS. (BASED ON UNFACTORED LOAD)
(12.0)	12,000 LBS. (BASED ON UNFACTORED LOAD)

LIVE LOAD KEYNOTES	
(4.2)	4,200 LBS. (BASED ON 70 LBS/ SQ. FT.)
(5.6)	5,600 LBS. (BASED ON 70 LBS/ SQ. FT.)

- NOTES:**
- CLIENT TO DETERMINE FOUNDATION: LENGTH, DEPTH, AND WIDTH DIMENSIONS BASED ON LOCAL SOIL CONDITION ANALYSIS.
  - WEIGHTS ARE BASED ON UNFACTORED LOADS.
  - TROWEL FINISH TO TOP OF FOOTING
  - TOLERANCE: HEIGHT =  $\pm(1/4") - (1/4")$   
LENGTH =  $\pm(1/2") - (1/2")$
  - FINISH GRADE MINIMUM 1" BELOW TOP OF FOOTING

**GROUNDING NOTES:**

Lightning protection system to be designed per (NFPA 780) requirements and be installed and installed by others. A (#4) CU counterpoise conductor shall be installed per military design requirements and provided and installed by others. The range shall be grounded per NEC 250.50 requirements. This requirement shall be met by the installation of a concrete-encased electrode (20 lb bare #4 AWG CU conductor at bottom of footing) or 8" x 5/8" diameter copper ground rod. The lightning protection system shall be bonded to the grounding system per NEC 250.106 requirements. A #4 CU conductor shall bond range panel ground bus to counterpoise conductor connected to lightning protection system. The grounding requirements and lightning protection bonding shall be provided and installed by others.

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**CLIENT SHALL DESIGN THE CONCRETE FOOTINGS AND ANCHORING SYSTEM PER ASCE 7 OR PER GOVERNING BUILDING CODE.**

**FOOTING DESIGN MAY CHANGE BASE ON CUSTOMER REQUIREMENTS AND LOCAL SOIL CONDITIONS.**

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**FOR CONSTRUCTION**

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CUSTOMER SIGN OFF:  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
△	FOR CONSTRUCTION	02-16-2022	VP

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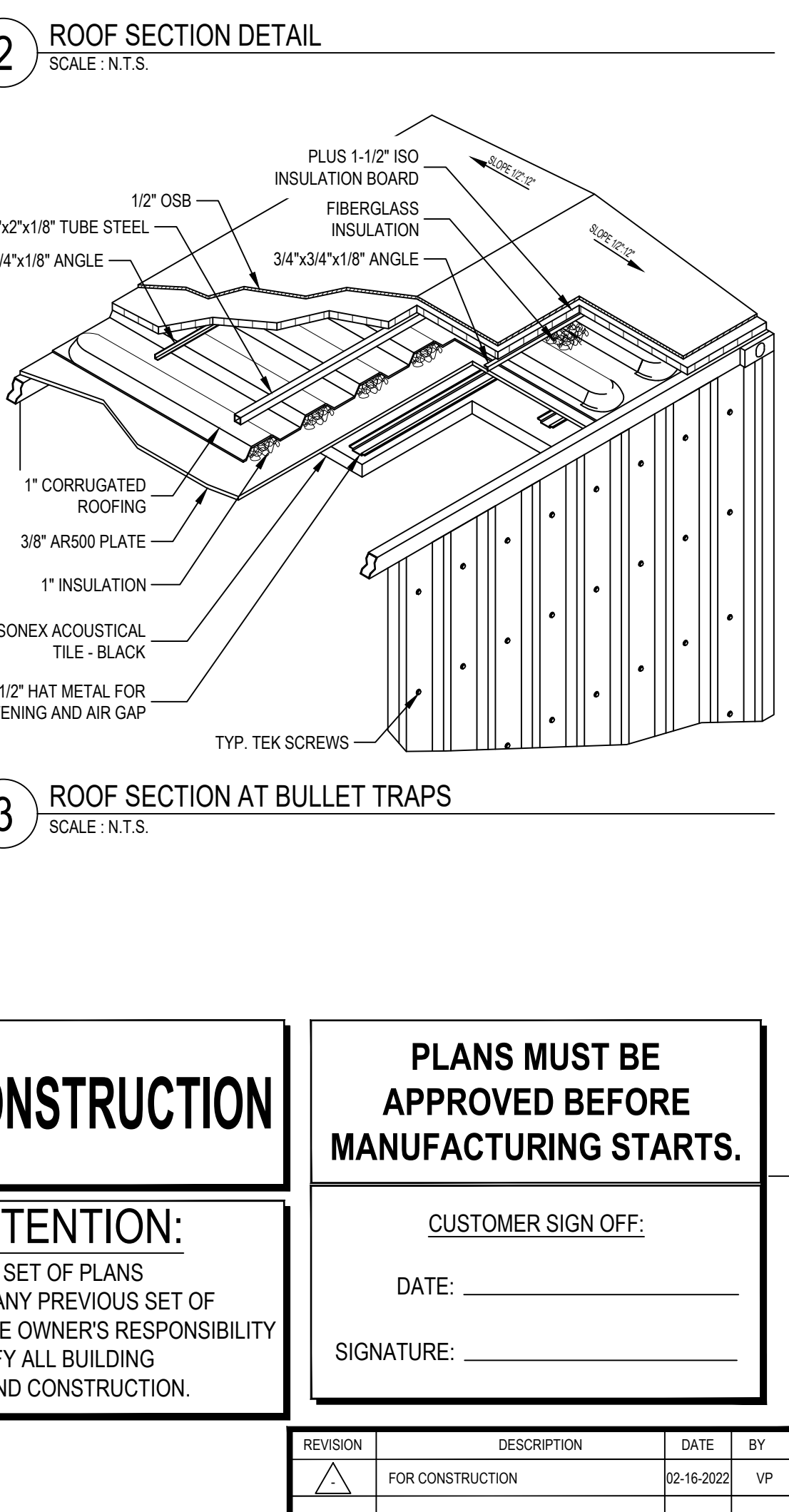
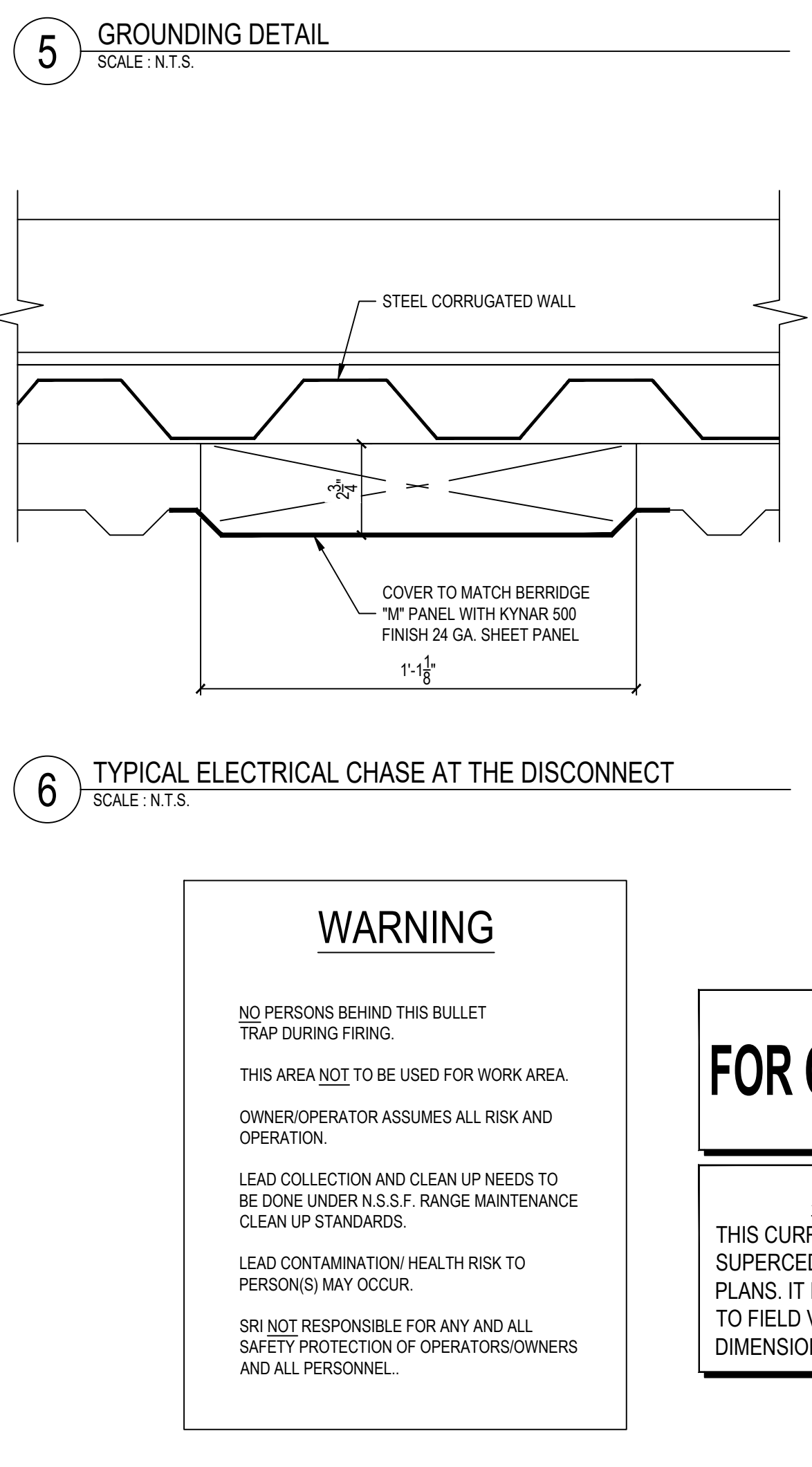
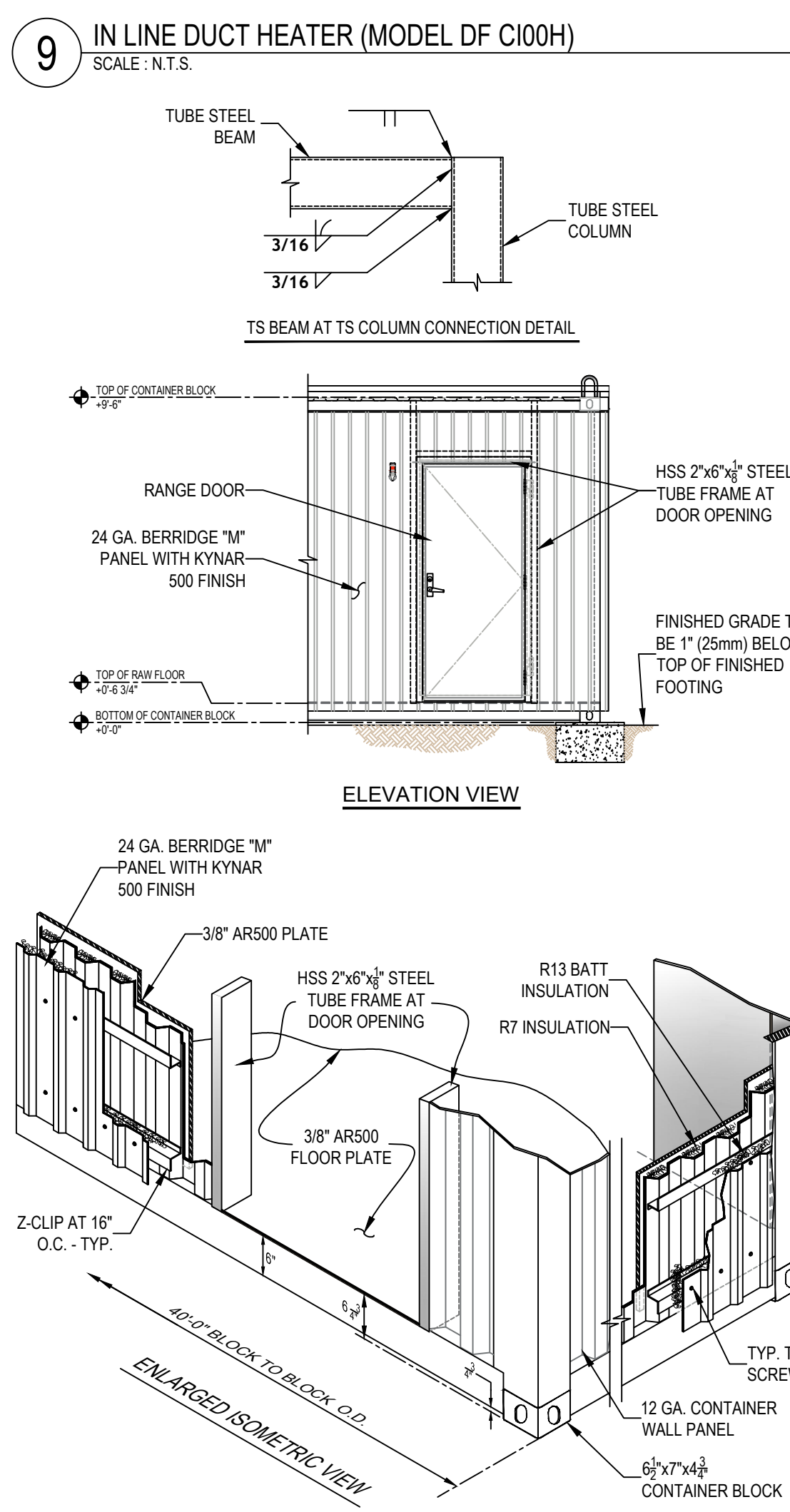
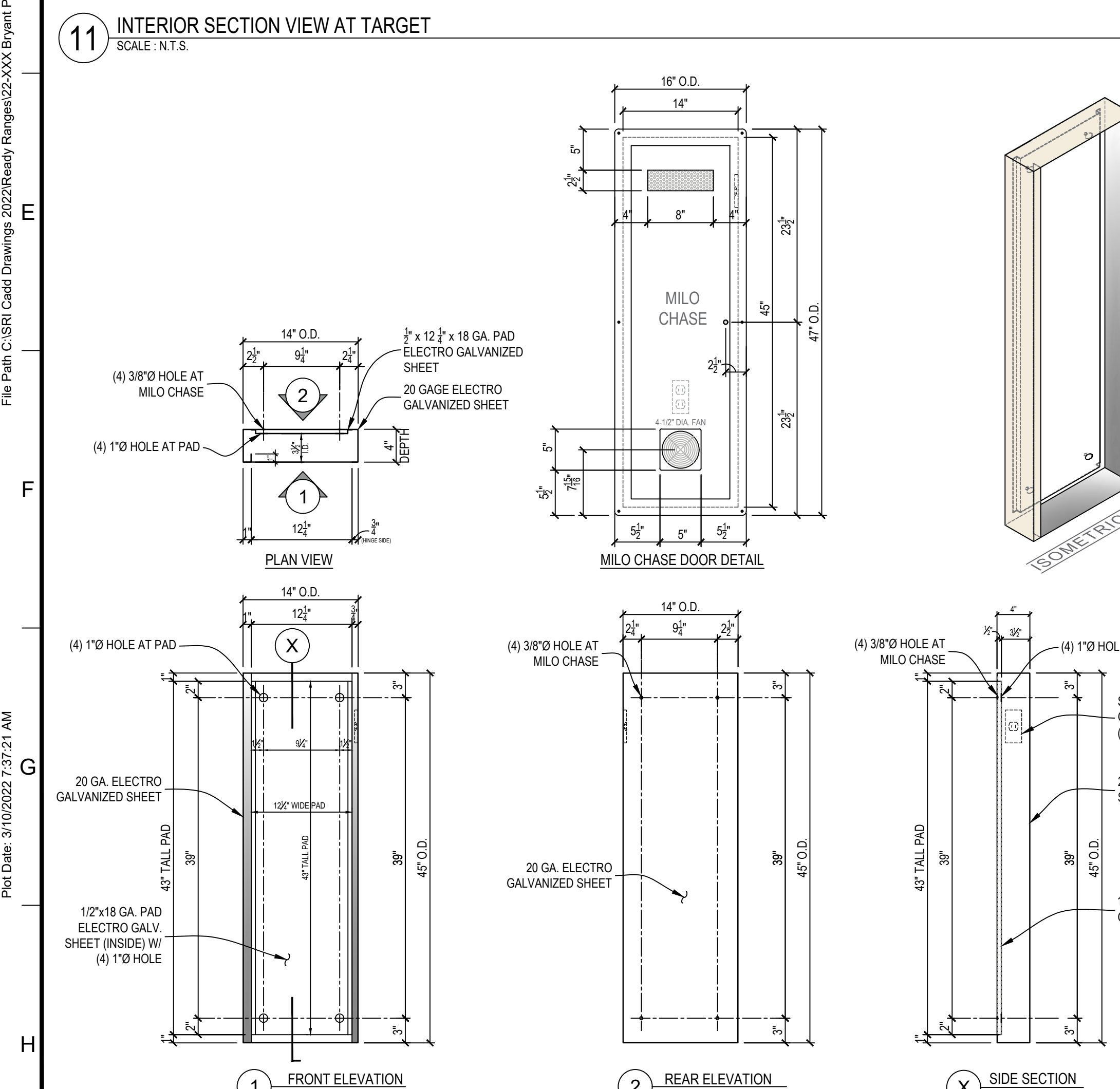
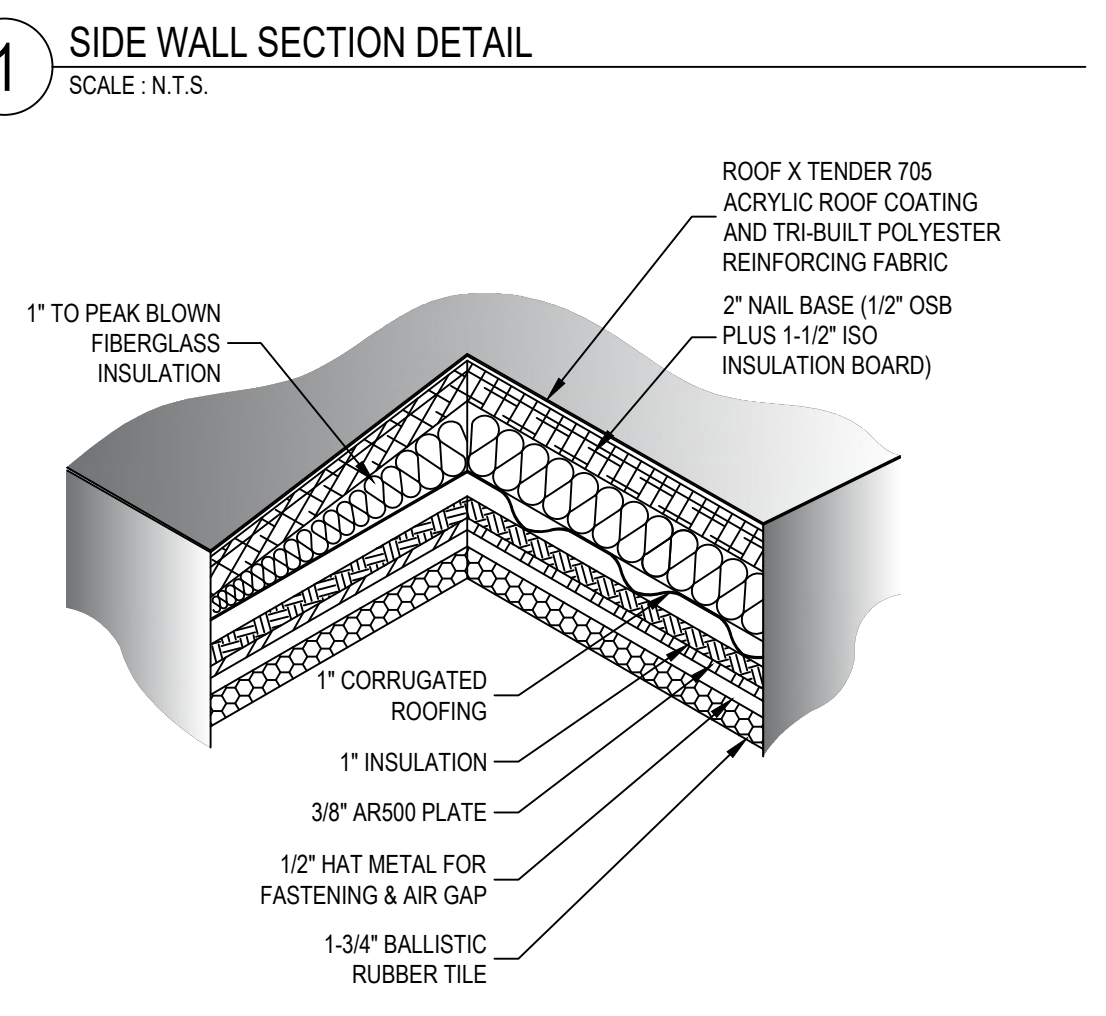
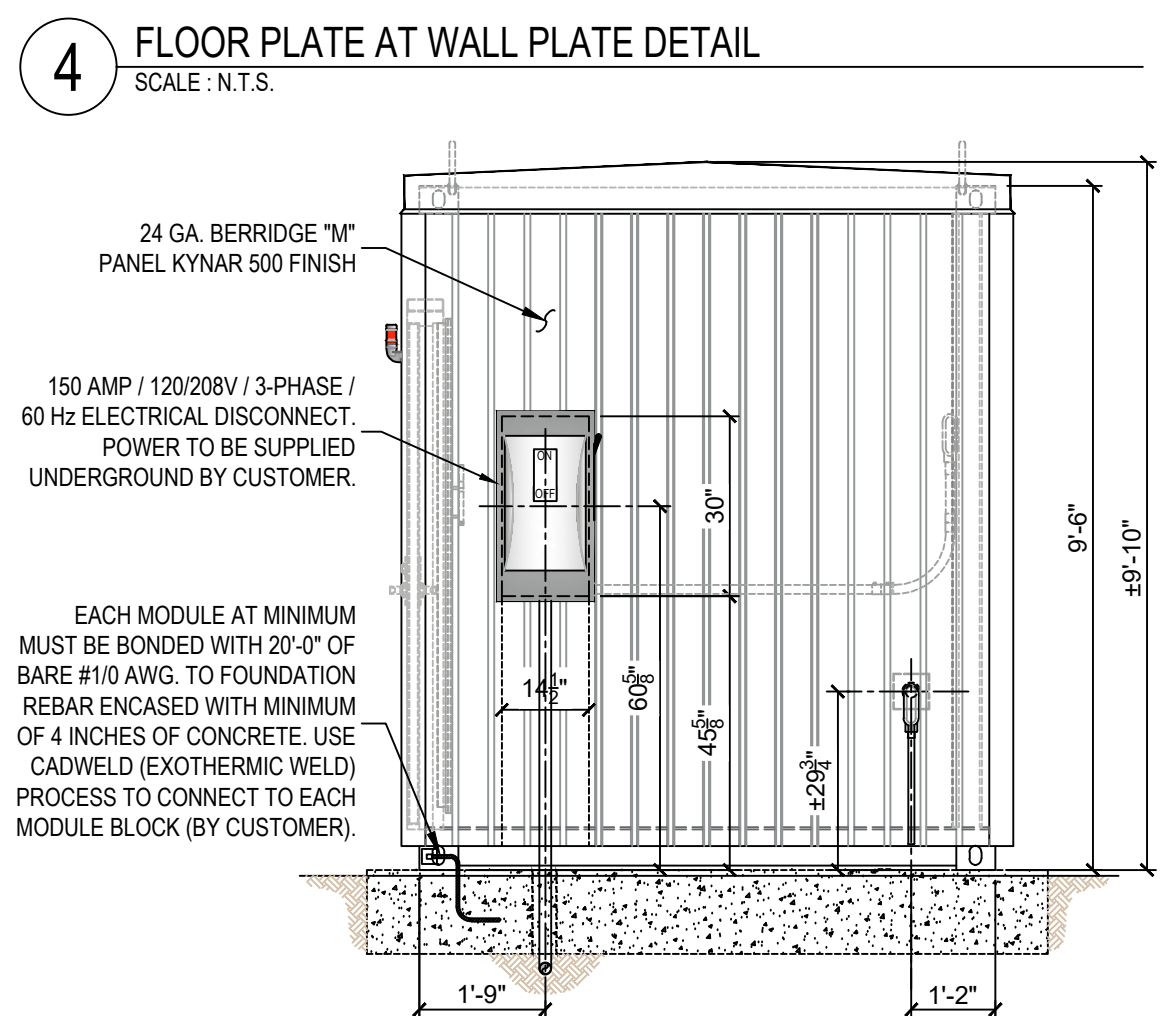
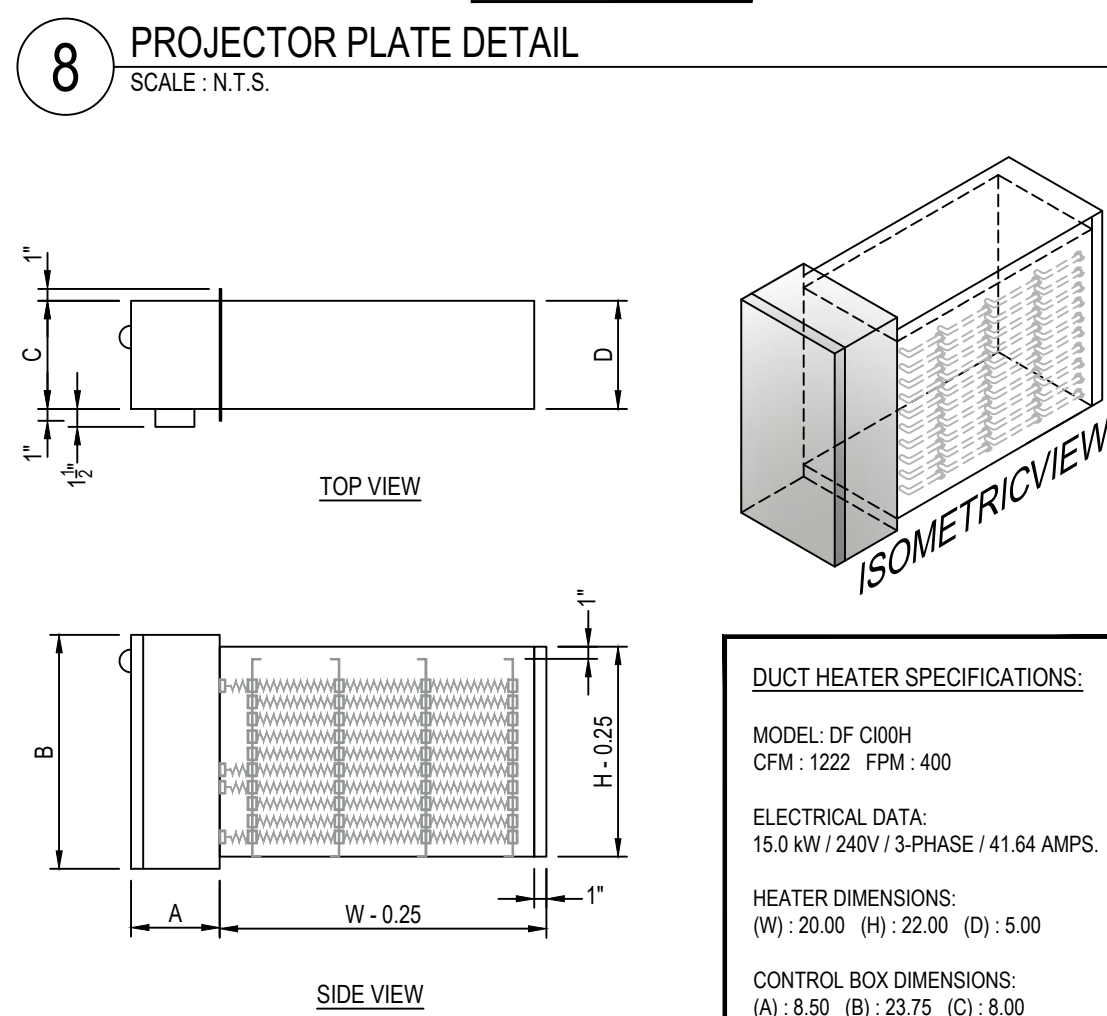
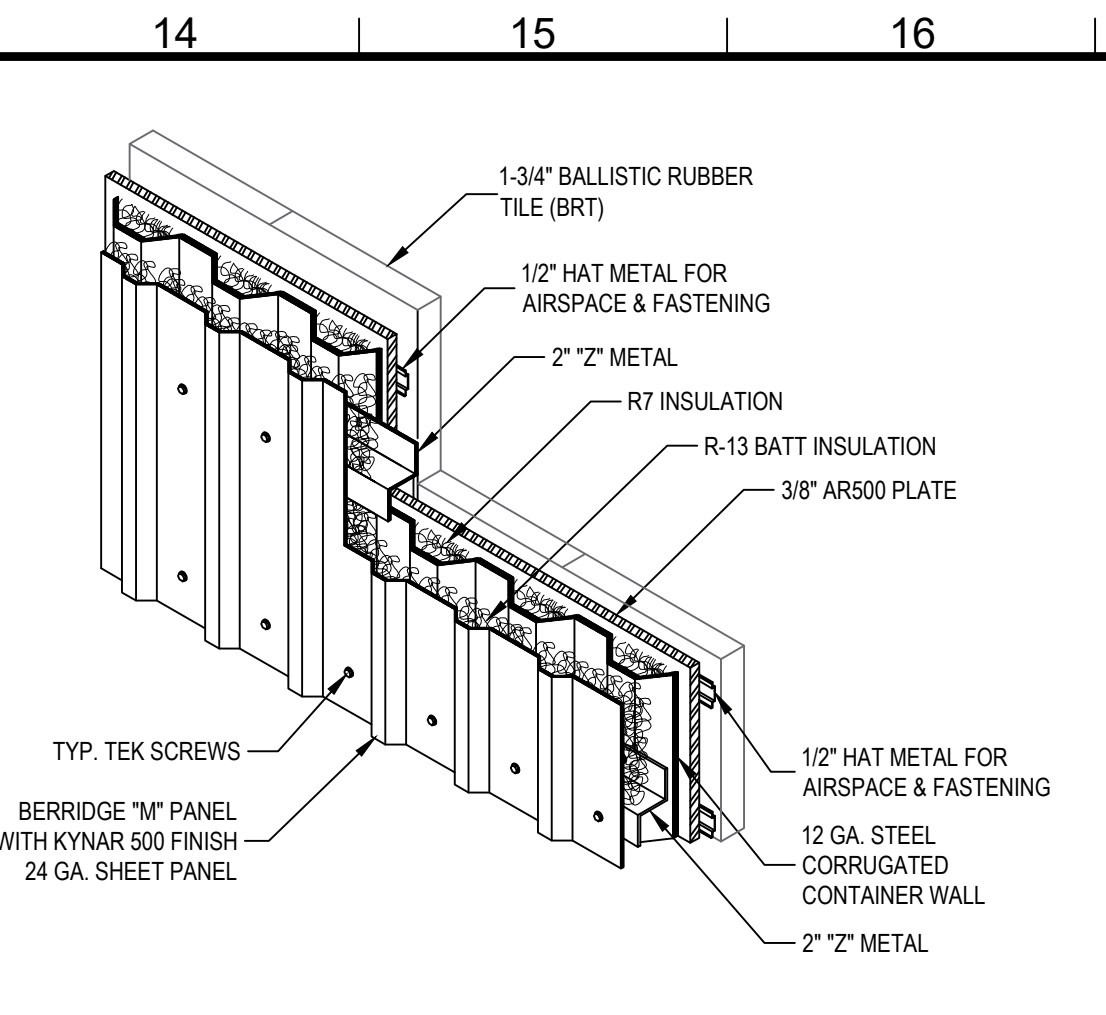
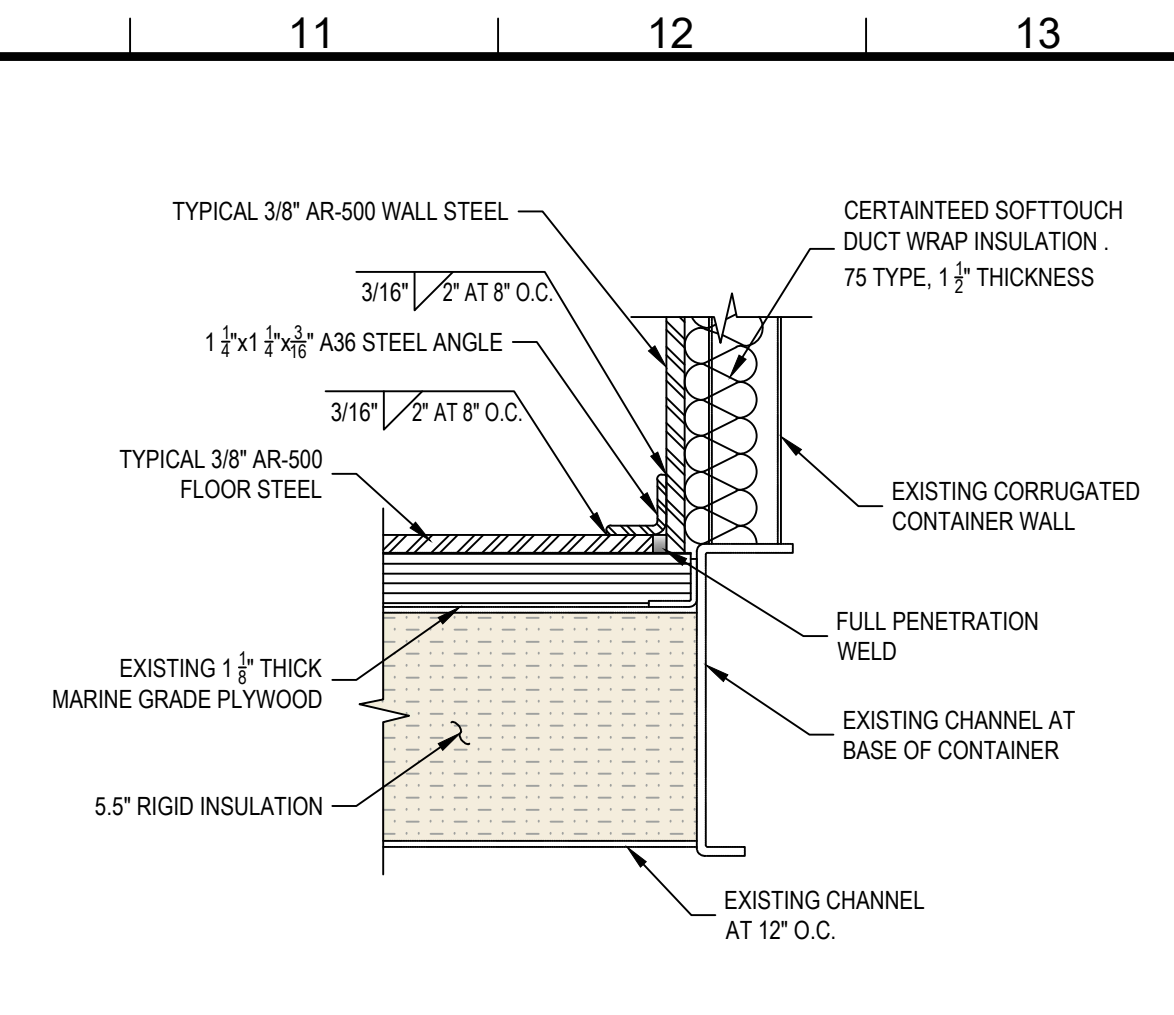
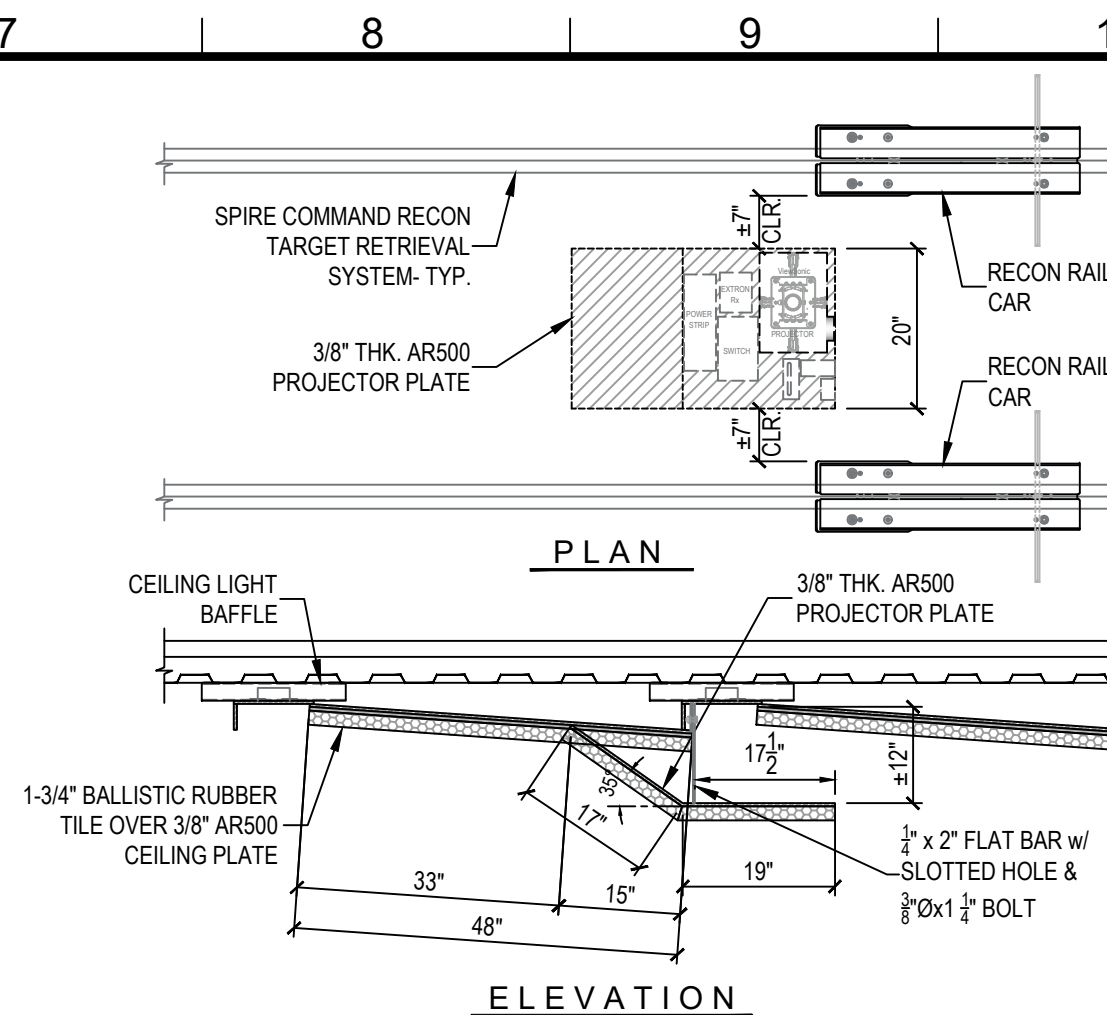
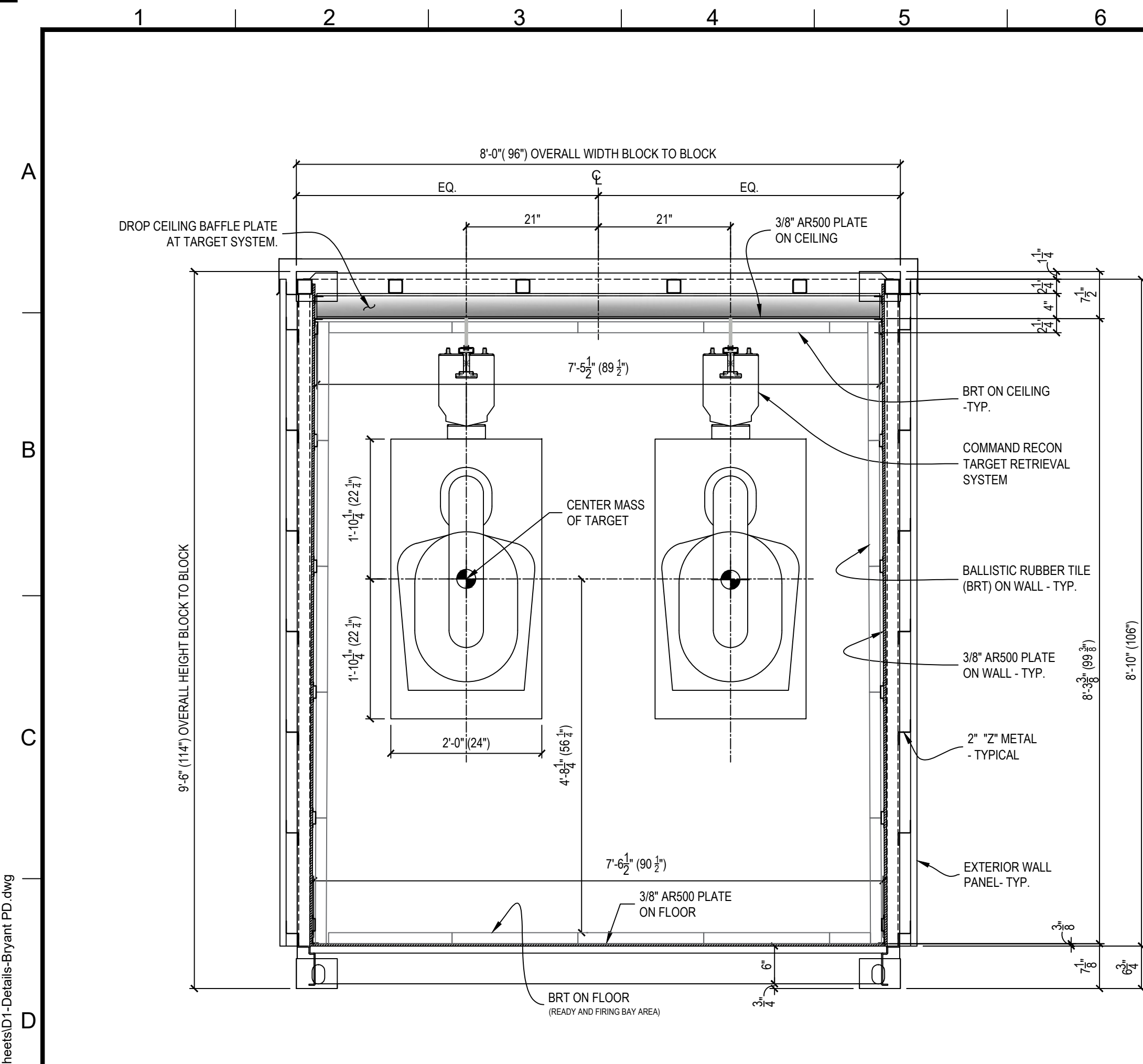
Project Title  
**BRYANT POLICE DEPARTMENT  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372**

Drawing Title  
**FOOTING LAYOUT  
FOOTING DETAILS  
LOAD REACTIONS/CALCS**

Drawn	Date	Checked	Date	Approved	Date
VP	02.03.2022	MH	02.03.2022	JC	02.03.2022

Project No. **SRI22103** Scale **AS NOTED** Sheet No. **S1**  
Sheet 7 of 8

Drawing No. **22-103 Bryant PD** Rev. **-**



**WARNING**

NO PERSONS BEHIND THIS BULLET TRAP DURING FIRING.

THIS AREA NOT TO BE USED FOR WORK AREA.

OWNER/OPERATOR ASSUMES ALL RISK AND OPERATION.

LEAD COLLECTION AND CLEAN UP NEEDS TO BE DONE UNDER N.S.S.F. RANGE MAINTENANCE CLEAN UP STANDARDS.

LEAD CONTAMINATION/HEALTH RISK TO PERSON(S) MAY OCCUR.

SRI NOT RESPONSIBLE FOR ANY AND ALL SAFETY PROTECTION OF OPERATORS/OWNERS AND ALL PERSONNEL.

**FOR CONSTRUCTION**

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CUSTOMER SIGN OFF:

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

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**NOTES**

**ORTHOGRAPHIC PROJECTION**

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SRI or anyone affiliated or partnered with SRI, will not be held liable for any negligence on the part of the structure personnel for any of the above items.

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2. Supply & exhaust air must "always" be on and operating at the same time (interlocked together).
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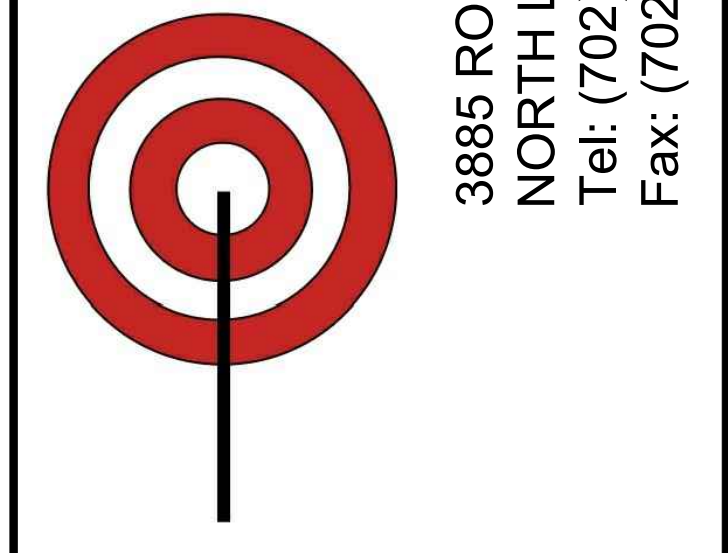
1. Air system comes as a completely balanced system by factory certified H.V.A.C. specialists however, it is the customer's responsibility to maintain a balanced air system.
2. If structure owner/operator does not understand any of the above operations, lead management, structure safety or will not accept responsibility they should immediately cease all operations to prevent employees and/or customers against health problems or bodily harm.
3. SRI has incorporated the customer's specified wall and ceiling ballistic protection in the building design as has been called out in the customer's design requirements, as such, the customer takes full responsibility to ensure that no ammunition is fired in the range that could exceed the design capabilities the customer has specified in the design requirements. The customer is solely responsible for proper range operation, range maintenance, and range safety in accordance with the range training and maintenance manual.

**SHOOTING RANGE INDUSTRIES, LLC**

RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MIL0**

3885 ROCKBOTTOM STREET  
NORTH LAS VEGAS, NV 89030  
Tel: (702) 362-3623  
Fax: (702) 310-6978



Project Title  
**BRYANT POLICE DEPARTMENT**  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372

Drawing Title  
**DETAILS**

REVISION	DESCRIPTION	DATE	BY	APPROVED	DATE
VP	FOR CONSTRUCTION	02-16-2022	VP	JC	02-03-2022

Drawn Date: 02.03.2022  
Checked Date: 02.03.2022  
Project No: SRI22103  
Scale: AS NOTED  
Sheet No: D1  
Drawing No: 22-103 Bryant PD  
Sheet 8 of 8

File Path: C:\SRI\Cadd Drawings\2022\Ready Ranges\22-XXX Bryant PD\Sheets\01-Details-Bryant PD.dwg

Plot Date: 3/10/2022 7:37:21 AM

Login: Vince Parrin



LIGHTING FIXTURE SCHEDULE								
QTY.	SYMBOL	BRAND	MODEL NO.	VOLTAGE	REQUIRED LAMPS		MOUNTING	REMARKS
					NUM.	TYPE		
12		LITHONIA	ZL1N	120V - 277V	1	0-10V DIMMING STD. NPH60 NIGHT SWITCHING DIMMING MODULE (3,500 LUMENS)	CEILING	LED STRIPLIGHT, SNAP ON FROSTED, DIFFUSE
1		LITHONIA	LHQM S W 3 R 120/277	120V - 277V	1	3.3 FIXTURE WATTS, LED EXIT, KRYPTON LAMP HEAD	WALL	COMBINATION EMERGENCY LIGHT AND EXIT FIXTURE

SYMBOL SCHEDULE:	
SYMBOL	DESCRIPTION
	DUPLEX ELECTRICAL RECEPTACLE (PLAN)
	DUPLEX ELECTRICAL RECEPTACLE (ELEV)
	QUADRUPLEX ELECTRICAL RECEPTACLE (PLAN)
	QUADRUPLEX ELECTRICAL RECEPTACLE (ELEV)
	LUTRON GRAFIK EYE 3000 CONTROLLER 120 VOLT
	ZL1N SERIES LED STRIP LIGHT FIXTURE (DIMMABLE) 120 VOLT
	THERMOSTAT
	FILTER PRESSURE
	RANGE PRESSURE
	PRESSURE SENSOR
	FIRE EXTINGUISHER (WALL MOUNTED)
	BALLISTIC RUBBER TILE
	SONEX SOUND TILE
	POLISHED ALUMINUM DIAMOND TREAD PLATE
	3/8" AR-500 STEEL PLATE

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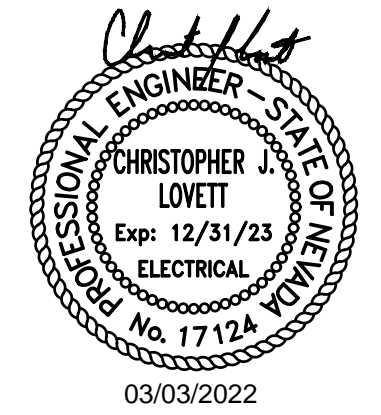
**NOTES**

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03/03/2022

**RIFLE TRAPS:**  
 MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG. STEEL CORE OR ARMOR PIERCING ROUNDS.

**FOR CONSTRUCTION**

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CUSTOMER SIGN OFF:  
 DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

**SHOOTING RANGE INDUSTRIES LLC**  
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Project Title  
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 2-LANE 70 FEET HIGH CUBE  
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 PHONE NO. (501) 943-0372

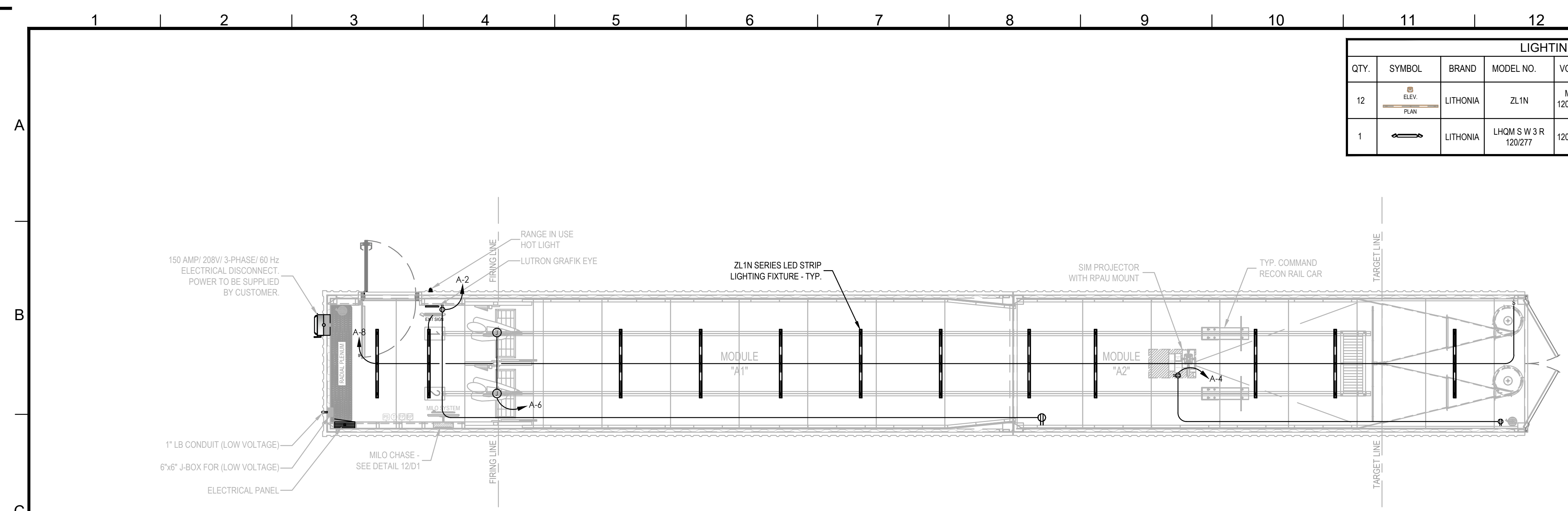
Drawing Title  
**ELECTRICAL LAYOUT**  
 (PLAN & SECTION VIEW)

REVISION	DESCRIPTION	DATE	BY	Drawn	Date	Checked	Date	Approved	Date
1	FOR CONSTRUCTION	02-16-2022	VP	VP	02-03-2022	MH	02-03-2022	JC	02-03-2022

Project No. **SRI22103** Scale **AS NOTED** Sheet No. **E1**  
 Drawing No. **22-103 Bryant PD** Sheet **4 of 8**

REV: 02/22/2022

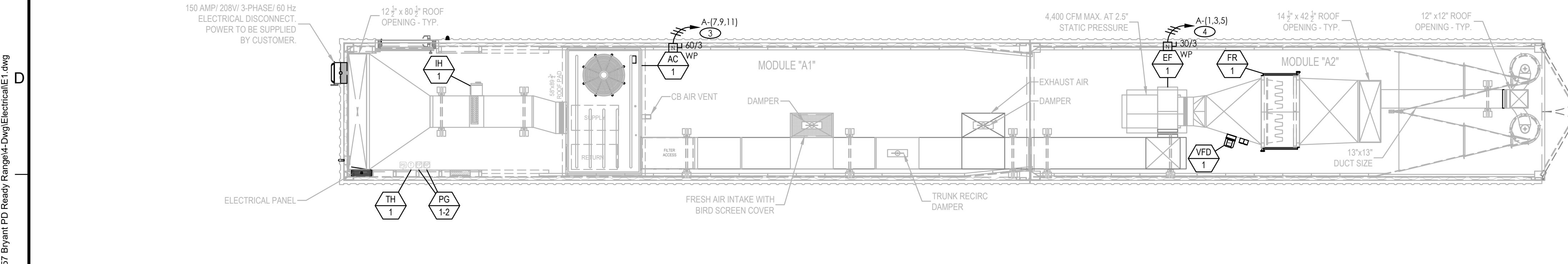
**EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3366  
 revolutionmep.com



**1 PLAN VIEW - ELECTRICAL LAYOUT**  
 SCALE: 1/4" = 1'-0"



File Path: R:\Projects\2022\12-0057 Bryant PD Ready Range\4-Dwg\Electrical\1E\_low



**2 ROOF VIEW - ELECTRICAL LAYOUT**  
 SCALE: 1/4" = 1'-0"

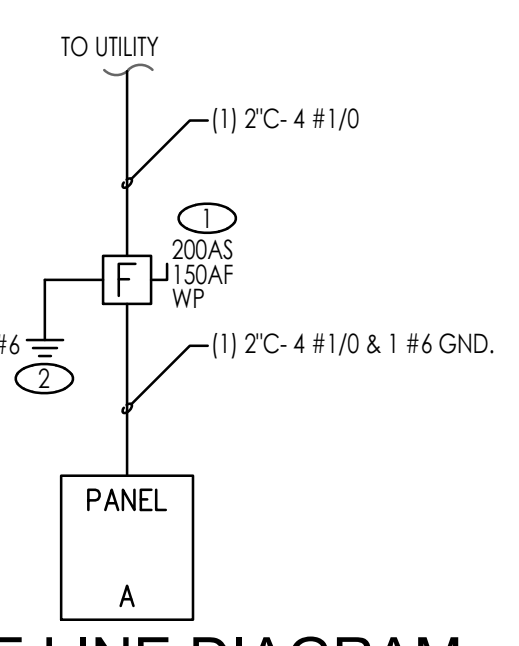


**NOTICE**

- OWNER TO VERIFY ALL EQUIPMENT VOLTAGES.
- DESIGN IN ACCORDANCE WITH 2020 NEC CODE

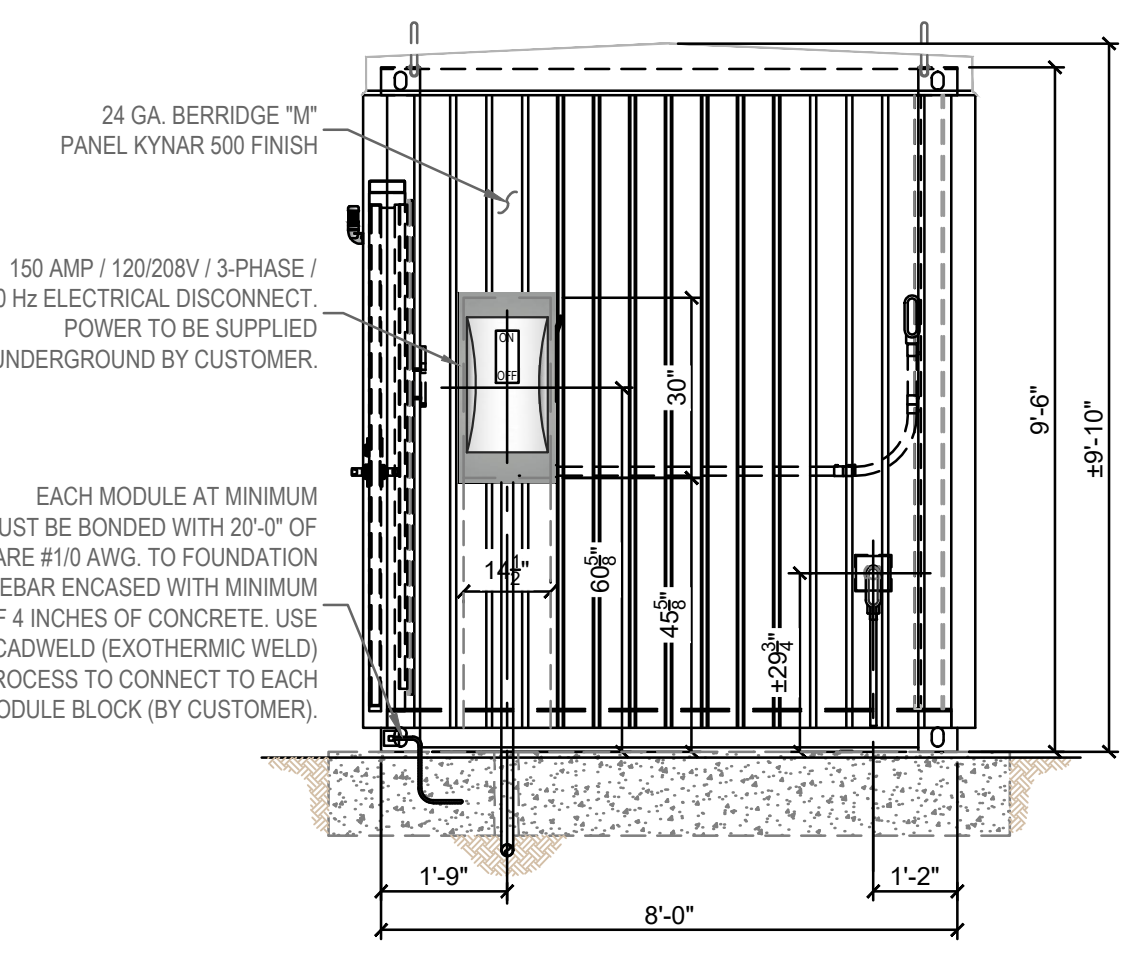
**SHEET NOTES**

- PROVIDE SERVICE RATED FUSED DISCONNECT AS SHOWN.
- GROUND PER NEC 250.52(A)(5).
- (1) 1 1/4" - 3 #4 & 1 #6 GND.
- WIRE THROUGH VFD PER MANUFACTURER'S RECOMMENDATIONS.



**SINGLE LINE DIAGRAM**

Plot Date: 3/3/2022 4:37:51 PM



**GROUNDING DETAIL**  
 SCALE: NTS

PANEL: A		VOLTAGE: 208 / 120 3Ø 4W		CIRCUIT CODE: blank or		N: NON-CONTINUOUS																			
DATE: 3/22 4:37 PM		BUS: 200A		LOCATION: CONTAINER		L: LONG-CONTINUOUS																			
JOB: 22.0057		MAINS: L.O.		MOUNTING: SURFACE		R: DEMANDABLE RECEPTACLES																			
AIC RATING: 22,000		PHASE TOTALS		ØA: 6825		ØB: 6420																			
				ØC: 6460																					
QTY	TRIP	POLE	DESCRIPTION	(NOTE)	M	R	L	ØA	ØB	ØC	A	B	C	ØA	ØB	ØC	L	R	M	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	QTY
1	30	3	EF-1		1			1500						360			2			2	GEN RECEP.	20	1	2	2
3	3	3						1500						360			2			2	MODULE RECEP.	20	1	4	4
5	3	3												400			2			2	MOTOR CONTROL	20	1	6	6
7	60	3	AC-1		1			4560						405			12				LIGHTS	20	1	L	8
9								4560													SPACE				10
11																					SPACE				12
13																					SPACE				14
15																					SPACE				16
17																					SPACE				18
19																					SPACE				20
21																									22
23																									24
25																									26
27																									28
29																									30
31																									32
33																									34
35																									36
37																									38
39																									40
41																									42

PANEL NOTES: PHASE TOTALS ØA: 6825 ØB: 6420 ØC: 6460

TOTAL CONNECTED VA	19705
CONNECTED VA (CODE N)	19300
CONNECTED VA (CODE L)	405
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	19.7
PANEL DEMAND KVA	19.8
PANEL DEMAND AMPS	55.0
HIGH Ø AMPS w/ DEMAND	57.7

18 CKT PANEL

EXHAUST FAN SCHEDULE															
UNIT NO.	SERVICE	LOCATION	FAN DATA				MOTOR / ELECTRICAL DATA				ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS		
			CFM	S.P. IN WG	RPM	FAN TYPE	DRIVE	HP	VOLTS	PH				HZ	RPM
EF-1 TO EF-6	FIRING RANGE	ROOF	4,400	2.5	1,980	BW1	BELT	5.0	208	3	60	1,755	357.98	DAYTON 7H171	PROVIDE WITH VFD

ROOF TOP UNIT SCHEDULE																									
UNIT NO.	SERVICE	FAN TYPE	FAN DATA			ELECTRICAL DATA			COOLING COIL SECTION				GAS HEAT SECTION			COMPRESSOR SECTION			ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS				
			CFM	ESP	BHP	HP	VOLTS	PH	MROP (A)	MCA (A)	CAPACITY Btu/hr	ENT. TEMP (F) DB	WIB	AMBIENT DB (F)	CAPACITY INPUT MBH	OUTPUT MBH	EAT. (F)	LEA. (ARF)				HEAT CONTROL	CAPACITY CONTROL	POWER AMPS	REFRIG TYPE
AC-1	FIRING RANGE	F	4,000	0.75	-	3	208	3	60	49.0	130,000	95	77	95	150	120	32	60	T-STAG	2 STAGE	R.L.-L.R. 19.6/136.0	R410	1058 NET (1156 SHPPING)	TRANE YSC0120HJELA	NONE
IH-1	FIRING RANGE	-	1,222	-	-	-	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.20 NET	WATCO DFC00H	NONE

DAMPER SCHEDULE - SEQUENCE OF OPERATION			
PRIMARY OPERATION - PURGE SYSTEM		EXTREME OPERATION - PARTIAL RECIRCULATION	
D1	100% OPEN	D1	10% OPEN
D2	100% CLOSED	D2	75% OPEN (BALANCED TO MAINTAIN NEGATIVE PRESSURE)
D3	100% OPEN	D3	40% OPEN (BALANCED TO MAINTAIN NEGATIVE PRESSURE)

H.V.A.C. REFERENCE KEYNOTES	
AC	AC = 10 TON GAS PACKAGE A/C UNIT "TRANE" INPUT: 150,000 BTU / OUTPUT: 120,000 BTU 208-230V / 60 Hz / 3 PHASE MODEL # YSC120HJELA
EF	EF = ROOFBRACKET MOUNTED EXHAUST FAN "DAYTON" MODEL #7H171 5.0 HP. 208V / 60 Hz / 3 PHASE 12.50 AMP F.L.A. NEMA 3R
FR	99.97% 0.3 MICRON HEPA FILTER RACK WITH (4) - 24"x24"x12" SUPERFLO-V FILTERS AND (4) - 24"x24"x2" PLEATED PRE-FILTERS
VFD	VFD = VARIABLE FREQUENCY DRIVE, 5 MAX. HP, 3 INPUT PHASE AC 240VAC INPUT VOLTAGE, 16 AMPS, MAX. OUTPUT MODEL NO. CFW080160TD4A1Z
IH	15.0 KW / 41.64 AMP / 208V / 3-PHASE / 1,222 CFM / 400 FPM DUCT HEATER "WATCO" MODEL # DFC00H
PG	(2) - DWYER MAGNEHELIC PRESSURE GAUGE MODEL NO. 3000-00N C / 2000-00N C MAX PRESSURE 15 PSIG
TH	NEPTRONIC VAV THERMOSTAT CONTROLLER - 22 TO 28Vdc 50/60 Hz POWER SUPPLY 32°F TO 122°F OPERATING TEMPERATURE MODEL NO. TR024T4XZ1

This information disclosed in this document contains proprietary data of Shooting Range Industries, LLC. All rights reserved. No part of this document/drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the written consent of the intellectual copyright owner, application for which can be made to Shooting Range Industries, LLC 3885 Rockbottom St., N. Las Vegas, NV 89030. Patent pending.

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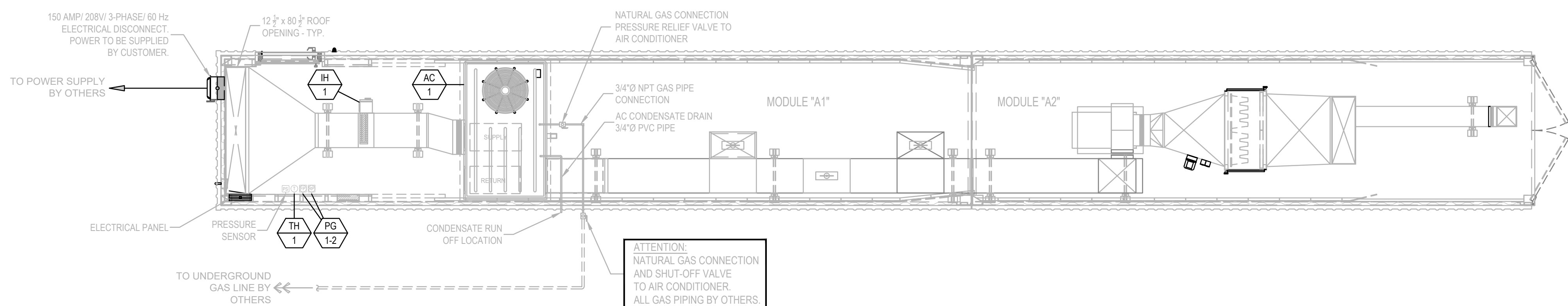
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**H.V.A.C. SEQUENCE OF OPERATIONS**

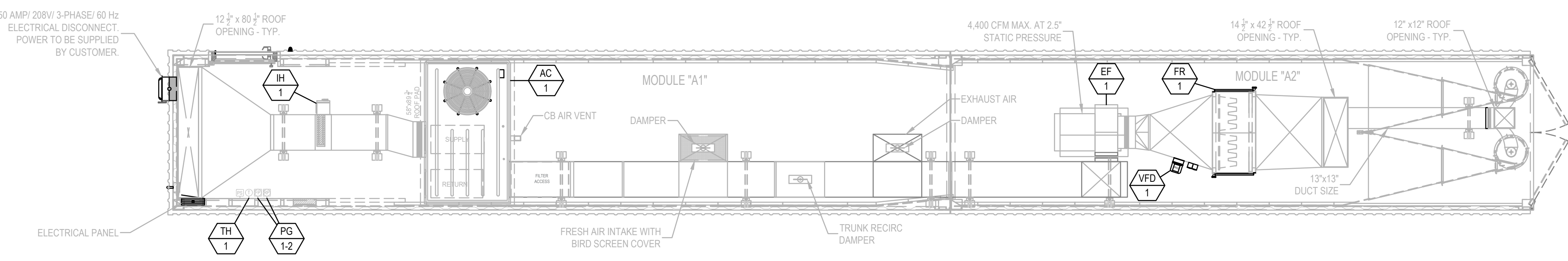
- EACH MODULE HVAC SYSTEM SHALL BE ACTIVATED BY SWITCH (THERMOSTAT) ON WALL.
- UPON ACTIVATION, THE EXHAUST FAN AND ROOFTOP UNIT SUPPLY FAN SHALL BE ENABLED. ALL FANS SHALL OPERATE AT CONSTANT SPEED TO MAINTAIN PROPER VELOCITY AND PRESSURIZATION INSIDE MODULE.
- THE SPACE TEMPERATURE SHALL BE CONTROLLED VIA THE THERMOSTAT TO MAINTAIN SETPOINT. COOLING WILL BE ACCOMPLISHED IN TWO (2) STAGES, VIA THE MULTI-STAGE COMPRESSOR, HEATING WILL BE ACCOMPLISHED IN FOUR (4) STAGES, VIA THE ROOFTOP UNITS GAS HEATER AND ELECTRIC HEAT STRIP LOCATED IN THE DUCT. THE ELECTRIC HEAT STRIP SHALL OPERATE AS THE PRIMARY HEATING SOURCE, AND THE ROOFTOP UNIT GAS HEATING SECTION SHALL OPERATE WHEN THE HEAT PUMP IS UNABLE TO MAINTAIN THE HEATING TEMPERATURE SETPOINT.

**NOTES:**

- POWER BY CUSTOMER.
- CUSTOMER IS RESPONSIBLE FOR DRAINAGE LOCATION AND PROTECTION OF CONDENSATE LINES FROM FREEZING.



**PLAN VIEW - UTILITY LAYOUT**  
SCALE: 1/4" = 1'-0"



**PLAN VIEW - H.V.A.C. LAYOUT**  
SCALE: 1/4" = 1'-0"



**RIFLE TRAPS:**  
MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG. STEEL CORE OR ARMOR PIERCING ROUNDS.

**FOR CONSTRUCTION**

**ATTENTION:**  
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**PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.**

CUSTOMER SIGN OFF:  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
VP	FOR CONSTRUCTION	02-16-2022	VP

**SHOOTING RANGE INDUSTRIES, LLC**  
RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MILD**

3885 ROCKBOTTOM STREET  
NORTH LAS VEGAS, NV 89030  
Tel: (702) 362-3623  
Fax: (702) 310-6978

Project Title  
**BRYANT POLICE DEPARTMENT  
2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372**

Drawing Title  
**H.V.A.C. LAYOUT  
UTILITY LAYOUT  
(PLAN VIEW)**

Drawn	Date	Checked	Date	Approved	Date
VP	02.03.2022	MH	02.03.2022	JC	02.03.2022

Project No. **SRI22103** Scale **AS NOTED** Sheet No. **M1**  
Sheet 5 of 8

Drawing No. **22-103 Bryant PD** Rev. **-**

**EVOLUTION ENGINEERING**  
3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3366  
revolutionmep.com

File Path: R:\Projects\2022\L22-0057 Bryant PD Ready Range\4-Dwg\Mechanical\M1.dwg  
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Login: Brian Patalon

EXHAUST FAN SCHEDULE															
UNIT NO.	SERVICE	LOCATION	FAN DATA				MOTOR / ELECTRICAL DATA				ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS		
			CFM	S.P. IN WG	RPM	FAN TYPE	DRIVE	HP	VOLTS	PH				HZ	RPM
EF-1 TO EF-5	FIRING RANGE	ROOF	4,400	2.5	1,980	BW1	BELT	5.0	208	3	60	1,755	357.98	DAYTON 7H171	PROVIDE WITH VFD

ROOF TOP UNIT SCHEDULE																									
UNIT NO.	SERVICE	FAN TYPE	FAN DATA			ELECTRICAL DATA			COOLING COIL SECTION				GAS HEAT SECTION		COMPRESSOR SECTION		ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS						
			CFM	ESP	BHP	HP	VOLTS	PH	MROP (A)	MCA (A)	CAPACITY Btu/hr	ENT. TEMP (F) DB	WIB	AMB. DB (F)	CAPACITY INPUT MBH	OUTPUT MBH				EAT. (F)	LEA. (ARF)	HEAT CONTROL	CAPACITY CONTROL	POWER AMPS	REFRIG. TYPE
AC-1	FIRING RANGE	F	4,000	0.75	-	3	208	3	60	49.0	130,000	95	77	95	150	120	32	60	T-STAG	2 STAGE	R.L.-L.R. 19.6/136.0	R410	1058 NET (1156 SHPPING)	TRANE YSC0120HSELA	NONE
IH-1	FIRING RANGE	-	1,222	-	-	-	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.20 NET	WATCO DFC00H	NONE

DAMPER SCHEDULE - SEQUENCE OF OPERATION			
PRIMARY OPERATION - PURGE SYSTEM		EXTREME OPERATION - PARTIAL RECIRCULATION	
D1	100% OPEN	D1	10% OPEN
D2	100% CLOSED	D2	75% OPEN (BALANCED TO MAINTAIN NEGATIVE PRESSURE)
D3	100% OPEN	D3	40% OPEN (BALANCED TO MAINTAIN NEGATIVE PRESSURE)

H.V.A.C. REFERENCE KEYNOTES	
AC	AC = 10 TON GAS PACKAGE A/C UNIT "TRANE" INPUT: 150,000 BTU / OUTPUT: 120,000 BTU 208-230V / 60 HZ / 3 PHASE MODEL # YSC120HSELA
EF	EF = ROOFBRACKET MOUNTED EXHAUST FAN "DAYTON" MODEL #7H171 5.0 HP, 208V / 60 HZ / 3 PHASE 12.50 AMP F.L.A. NEMA 3R
FR	99.97% 0.3 MICRON HEPA FILTER RACK WITH (4) - 24"x24"x12" SUPERFLO-V FILTERS AND (4) - 24"x24"x2" PLEATED PRE-FILTERS
VFD	VFD = VARIABLE FREQUENCY DRIVE, 5 MAX. HP, 3 INPUT PHASE AC 240VAC INPUT VOLTAGE, 16 AMPS, MAX. OUTPUT MODEL NO. CFV080160T04A1Z
IH	15.0 KW / 41.64 AMP / 208V / 3-PHASE / 1,222 CFM / 400 FPM DUCT HEATER "WATCO" MODEL # DFC00H
PG	(2) - DWYER MAGNEHELIC PRESSURE GAUGE MODEL NO. 3000-00N C / 2000-00N C MAX PRESSURE 15 PSIG
TH	NEPTRONIC VAV THERMOSTAT CONTROLLER - 22 TO 28V AC 50/60 Hz POWER SUPPLY 32°F TO 122°F OPERATING TEMPERATURE MODEL NO. TR024TXZ1

**NOTES**

ORTHOGRAPHIC PROJECTION

**MAINTENANCE AND RESPONSIBILITIES**  
**NOTICE TO ALL SHOOTING OWNERS, MANAGERS & OPERATORS:**  
 Shooting Range Industries, LLC (SRI) is not a way shape or form, responsible for the maintenance, operation, cleanliness, employee protection, lead collection or recycling, disposal or cleanup of any structure provided by SRI, or anyone affiliated or partnered with SRI.

SRI or anyone affiliated or partnered with SRI will not be held liable for any negligence on the part of the structure personnel for any of the above items.

Improper maintenance or repair of the structure(s) by any personnel or its users for any of the aforementioned items, structure maintenance manuals have been provided with every range manufactured by SRI at time of purchase.

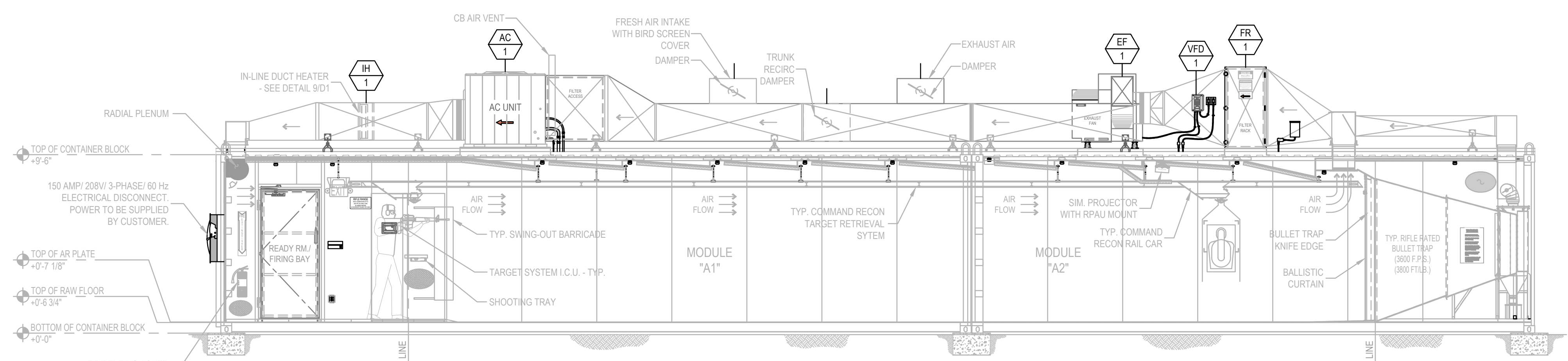
1. H.V.A.C. systems must be in proper working condition and in operation at time of range operation and clean up. SRI is not responsible for this operation (interlocking system).  
 2. Supply & exhaust air must "always" be on and operating at the same time (interlocked together).  
 3. Structures must have a negative air pressure or a min. of 10% of total air supply.  
 4. SRI is not liable for H.V.A.C. system maintenance, air quality, filtration maintenance and air filter change outs.  
 5. No storage or work to be performed behind bullet traps at any time.  
 6. SRI suggests lead handling & employee protection by the manual provided by the National Shooting Sports Foundation (NSSF).

The purpose of this letter/inlet is to make sure you, as structure owner, manager, operator, or maintenance personnel are doing your part to make sure all people who come in contact with your structure are safe and comfortable in the indoor structure environment.

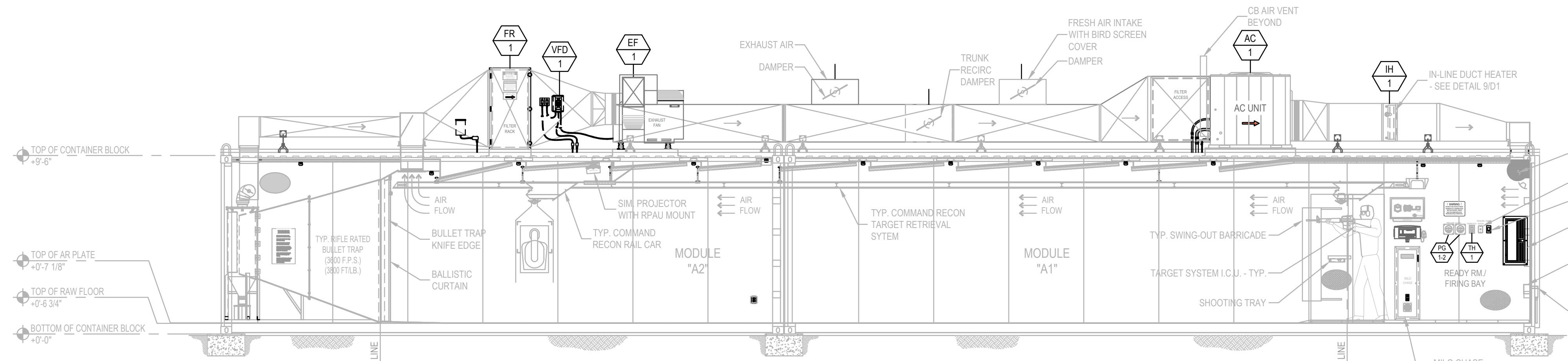
It is imperative that anyone involved in the operation, maintenance or repair of the structure(s) be diligent at minding all of the safety and operational standards that are set forth to ensure the safety of every shooter and employee that enters your place of business.

**GENERAL NOTES**

1. Air system comes as a completely balanced system by factory certified H.V.A.C. specialists however, it is the customer's responsibility to maintain a balanced air system.  
 2. If structure owner/operator does not understand any of the above operations, lead management, structure safety or will not accept responsibility they should immediately cease all operations to prevent employees and/or customers against health problems or bodily harm.  
 3. SRI has incorporated the customer's specified wall and ceiling ballistic protection in the building design as has been called out in the customer's design requirements, as such, the customer takes full responsibility to ensure that no ammunition is fired in the range that could exceed the design capabilities the customer has specified in the design requirements. The customer is solely responsible for proper range operation, range maintenance, and range safety in accordance with the range training and maintenance manual.



**1 LONGITUDINAL SECTION - H.V.A.C. LAYOUT**  
 SCALE: 1/4" = 1'-0"

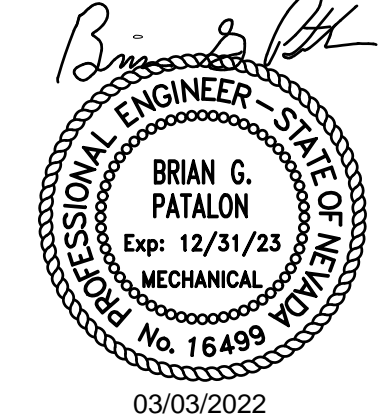


**2 LONGITUDINAL SECTION - H.V.A.C. LAYOUT**  
 SCALE: 1/4" = 1'-0"

H.V.A.C. SEQUENCE OF OPERATIONS	
1.	EACH MODULE HVAC SYSTEM SHALL BE ACTIVATED BY SWITCH (THERMOSTAT) ON WALL.
2.	UPON ACTIVATION, THE EXHAUST FAN AND ROOFTOP UNIT SUPPLY FAN SHALL BE ENABLED. ALL FANS SHALL OPERATE AT CONSTANT SPEED TO MAINTAIN PROPER VELOCITY AND PRESSURIZATION INSIDE MODULE.
3.	THE SPACE TEMPERATURE SHALL BE CONTROLLED VIA THE THERMOSTAT TO MAINTAIN SETPOINT. COOLING WILL BE ACCOMPLISHED IN TWO (2) STAGES, VIA THE MULTI-STAGE COMPRESSOR. HEATING WILL BE ACCOMPLISHED IN FOUR (4) STAGES, VIA THE ROOFTOP UNIT'S GAS HEATER AND ELECTRIC HEAT STRIP LOCATED IN THE DUCT. THE ELECTRIC HEAT STRIP SHALL OPERATE AS THE PRIMARY HEATING SOURCE, AND THE ROOFTOP UNIT GAS HEATING SECTION SHALL OPERATE WHEN THE HEAT PUMP IS UNABLE TO MAINTAIN THE HEATING TEMPERATURE SETPOINT.

**NOTES:**

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 2. CUSTOMER IS RESPONSIBLE FOR DRAINAGE LOCATION AND PROTECTION OF CONDENSATE LINES FROM FREEZING.



**RIFLE TRAPS:**  
 MODEL# C-R-3600 RIFLE TRAPS ARE RATED FOR A MAXIMUM OF 3600 FPS AND/OR 3800 FT/LB. FAILURE TO MONITOR AMMO BEING USED COULD RESULT IN METAL PITTING AND EVEN TRAP FAILURE. NO .50 CAL. BMG, STEEL CORE OR ARMOR PIERCING ROUNDS.

**FOR CONSTRUCTION**

**ATTENTION:**  
 THIS CURRENT SET OF PLANS SUPERCEDES ANY PREVIOUS SET OF PLANS. IT IS THE OWNER'S RESPONSIBILITY TO FIELD VERIFY ALL BUILDING DIMENSIONS AND CONSTRUCTION.

**PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.**

CUSTOMER SIGN OFF:  
 DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
VP	FOR CONSTRUCTION	02-16-2022	VP

**SHOOTING RANGE INDUSTRIES LLC**  
 RANGE DESIGN • RANGE EQUIPMENT • MODULAR RANGES

**MIL0**

3885 ROCKBOTTOM STREET  
 NORTH LAS VEGAS, NV 89030  
 Tel: (702) 362-3623  
 Fax: (702) 310-6978

Project Title  
**BRYANT POLICE DEPARTMENT**  
 2-LANE 70 FEET HIGH CUBE  
 "TACTICAL" RIFLE RATED RANGE  
 312 ROYAL LANE, BRYANT, AR 72022  
 PHONE NO. (501) 943-0372

Drawing Title  
**H.V.A.C. LAYOUT**  
 (PLAN AND SECTION VIEW)

Drawn Date: 02.03.2022  
 Checked Date: 02.03.2022  
 Approved Date: 02.03.2022

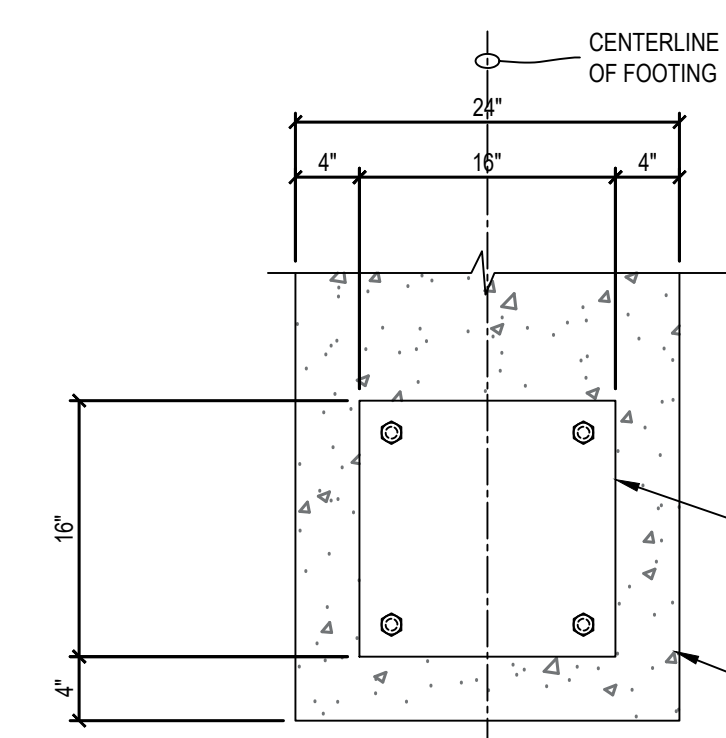
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 Scale: AS NOTED  
 Sheet No: M2  
 of 8

Drawing No: 22-103 Bryant PD

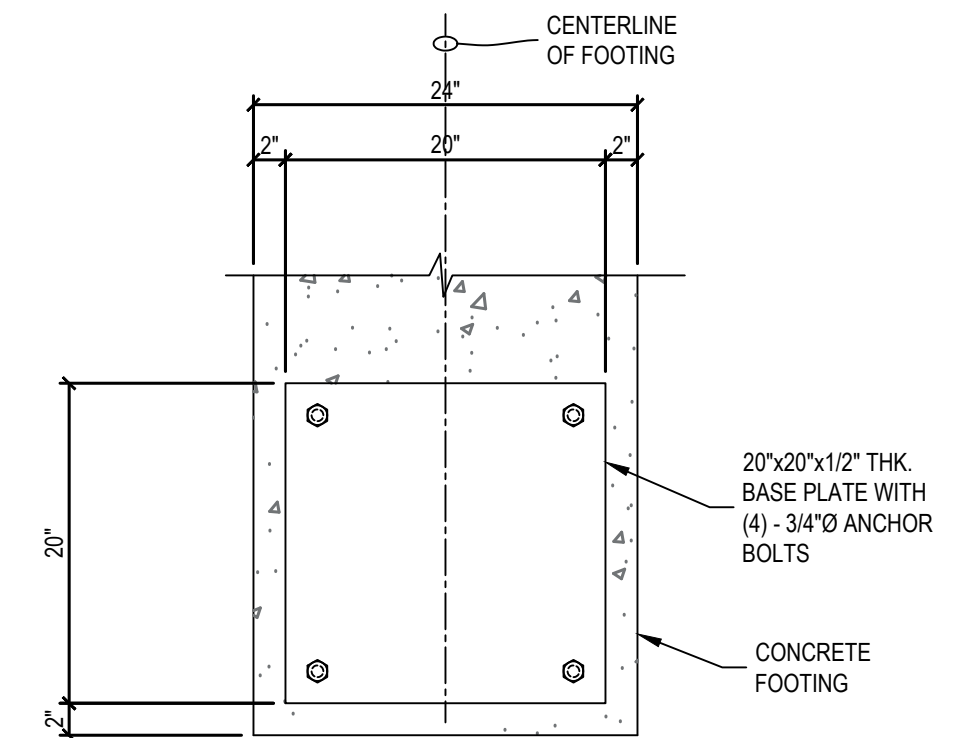
**EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3366  
 revolutionmep.com

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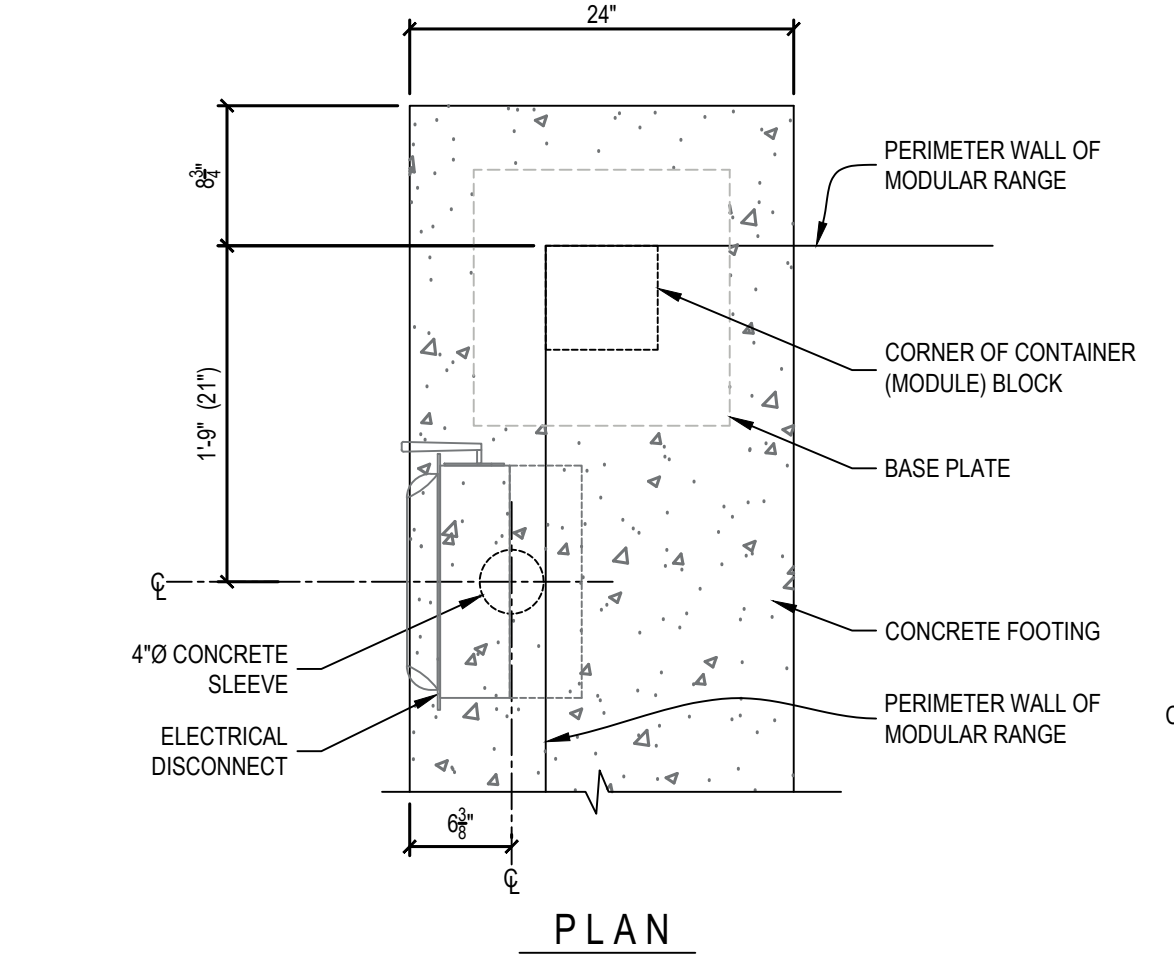
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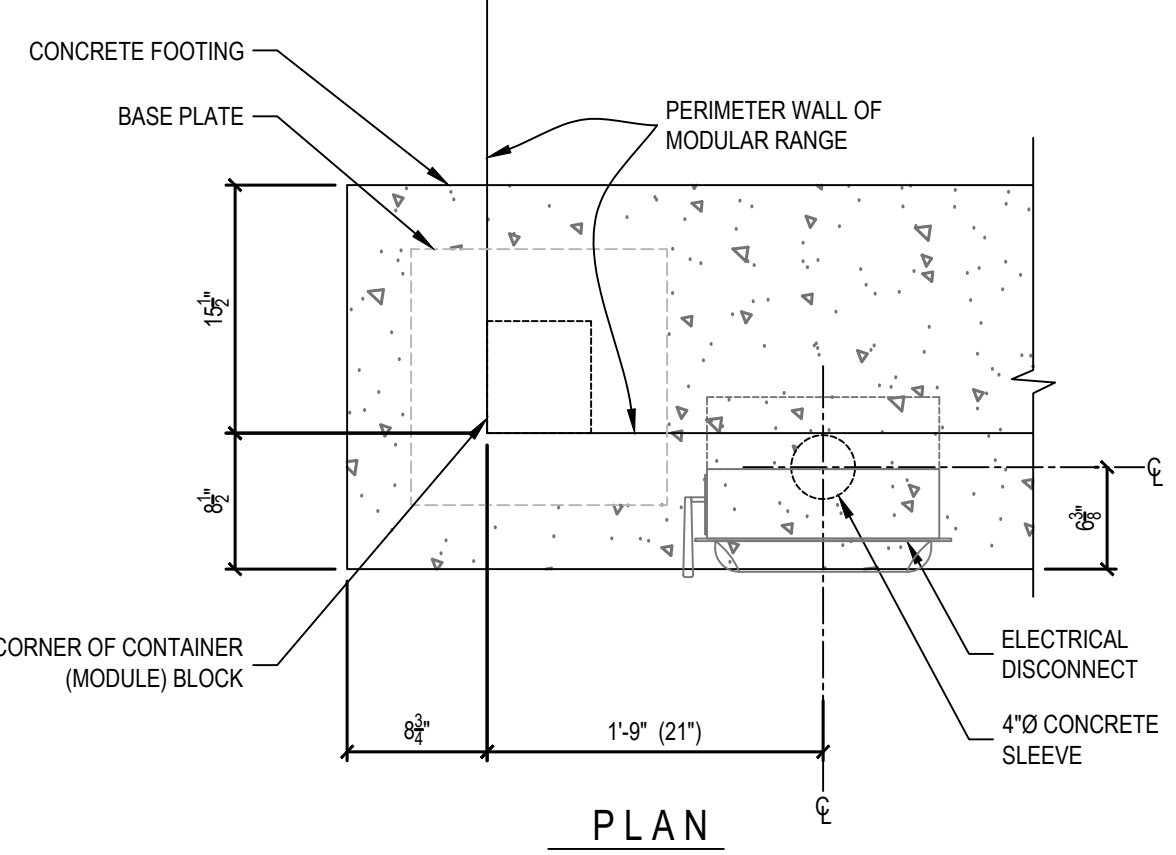
**BASE PLATE PLAN**



**BASE PLATE PLAN**



**SECTION**



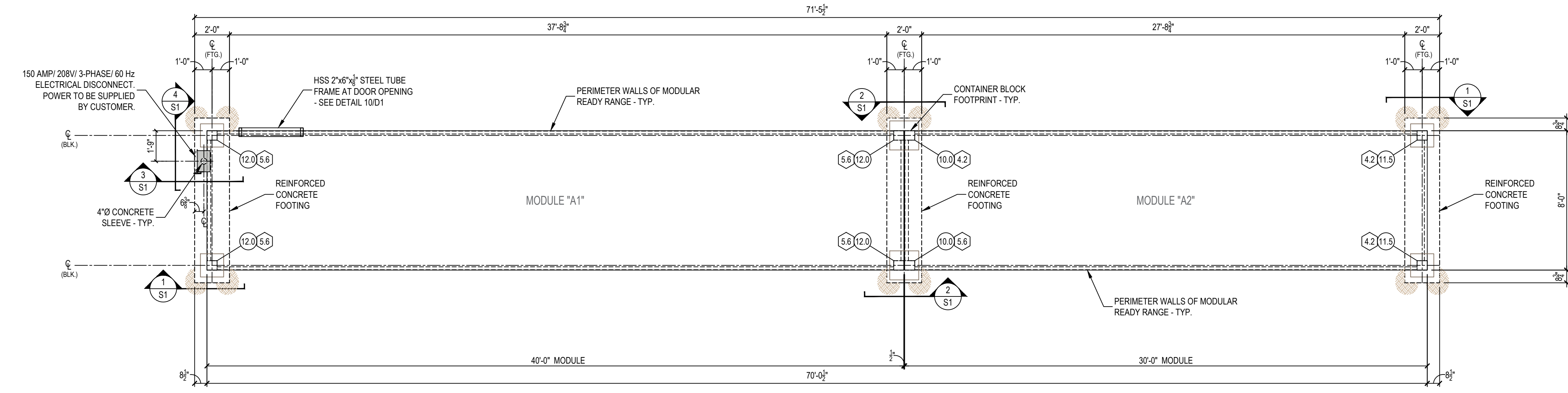
**SECTION**

**1 FOOTING DETAIL AT END CONDITION**  
SCALE: N.T.S.

**2 FOOTING DETAIL AT SEAM CONDITION**  
SCALE: N.T.S.

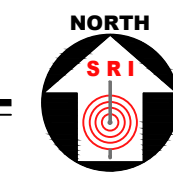
**3 FOOTING DETAIL AT ELECTRICAL DISCONNECT**  
SCALE: N.T.S.

**4 FOOTING DETAIL AT ELECTRICAL DISCONNECT**  
SCALE: N.T.S.



**PLAN VIEW - FOOTING LAYOUT AND LOAD REACTIONS TO FOUNDATION**

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



DEAD LOAD KEYNOTES	
10.0	10,000 LBS. (BASED ON UNFACTORED LOAD)
11.5	11,500 LBS. (BASED ON UNFACTORED LOAD)
12.0	12,000 LBS. (BASED ON UNFACTORED LOAD)

LIVE LOAD KEYNOTES	
4.2	4,200 LBS. (BASED ON 70 LBS/ SQ. FT.)
5.6	5,600 LBS. (BASED ON 70 LBS/ SQ. FT.)

- NOTES:**
- CLIENT TO DETERMINE FOUNDATION: LENGTH, DEPTH, AND WIDTH DIMENSIONS BASED ON LOCAL SOIL CONDITION ANALYSIS.
  - WEIGHTS ARE BASED ON UNFACTORED LOADS.
  - TROWEL FINISH TO TOP OF FOOTING
  - TOLERANCE: HEIGHT =  $\pm(1/4") - (1/4")$   
LENGTH =  $\pm(1/2") - (1/2")$
  - FINISH GRADE MINIMUM 1" BELOW TOP OF FOOTING

**GROUNDING NOTES:**

Lightning protection system to be designed per (NFPA 780) requirements and be installed and installed by others. A (#4) CU counterpoise conductor shall be installed per military design requirements and provided and installed by others. This requirement shall be met by the installation of a concrete-encased electrode (20 ft bare #4 AWG CU conductor at bottom of footing) or 8" x 5/8" diameter copper ground rod. The lightning protection system shall be bonded to the grounding system per NEC 250.106 requirements. A #4 CU conductor shall bond range panel ground bus to counterpoise conductor connected to lightning protection system. The grounding requirements and lightning protection bonding shall be provided and installed by others.

It is imperative that anyone involved in the operation, maintenance or repair of the structure(s) be diligent at minding all of the safety and operational standards that are set forth to ensure the safety of every shooter and employee that enters your place of business.

**CLIENT SHALL DESIGN THE CONCRETE FOOTINGS AND ANCHORING SYSTEM PER ASCE 7 OR PER GOVERNING BUILDING CODE.**

**FOOTING DESIGN MAY CHANGE BASE ON CUSTOMER REQUIREMENTS AND LOCAL SOIL CONDITIONS.**

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**PRELIMINARY NOT FOR CONSTRUCTION PER PENDING APPROVAL**

**PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.**

CUSTOMER SIGN OFF:  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

REVISION	DESCRIPTION	DATE	BY
1			

The information disclosed in this document contains proprietary data of Shooting Range Industries, LLC. All rights reserved. No part of this document/drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopy, recording or otherwise without the written consent of the intellectual copyright owner, application for which can be made to Shooting Range Industries, LLC, 3885 Rockbottom St., N. Las Vegas, NV 89030. Patent pending.

**NOTE:**  
Drawings must not be scaled, where no dimensions are given, the matter shall be referred to the engineer.  
Should dimensions or details on these drawings conflict, precedence shall be given to the larger scale drawing.  
Where this drawing relates to existing or completed construction the contractor shall check that there is no conflict between actual building dimensions and drawing dimensions.  
Written dimensions on these drawings shall have precedence over scaled dimensions.  
Contractor to verify and be responsible for all dimensions and conditions in the field. This office must be notified of any variations from the dimensions and conditions shown by these drawings, also details of adequate scale must be submitted to this office for approval before proceeding with fabrication on items so noted.  
Such conflicts noted above shall be reported immediately to the engineer.

**NOTES:**

**ORTHOGRAPHIC PROJECTION**

**MAINTENANCE AND RESPONSIBILITIES**  
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**MILD**

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Project Title  
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2-LANE 70 FEET HIGH CUBE  
"TACTICAL" RIFLE RATED RANGE  
312 ROYAL LANE, BRYANT, AR 72022  
PHONE NO. (501) 943-0372

Drawing Title  
**FOOTING LAYOUT**  
**FOOTING DETAILS**  
**LOAD REACTIONS/CALCS**

Drawn	Date	Checked	Date	Approved	Date
VP	02.03.2022	MH	02.03.2022	JC	02.03.2022
Project No.	Scale	Sheet No.			
SRI22100	AS NOTED	S1			
Drawing No.	Sheet		Rev.		
22-100 Bryant PD	7 of 8		-		

BRYANT POLICE DEPARTMENT  
 MODULAR SHOOTING RANGE  
 CITY OF BRYANT, ARKANSAS

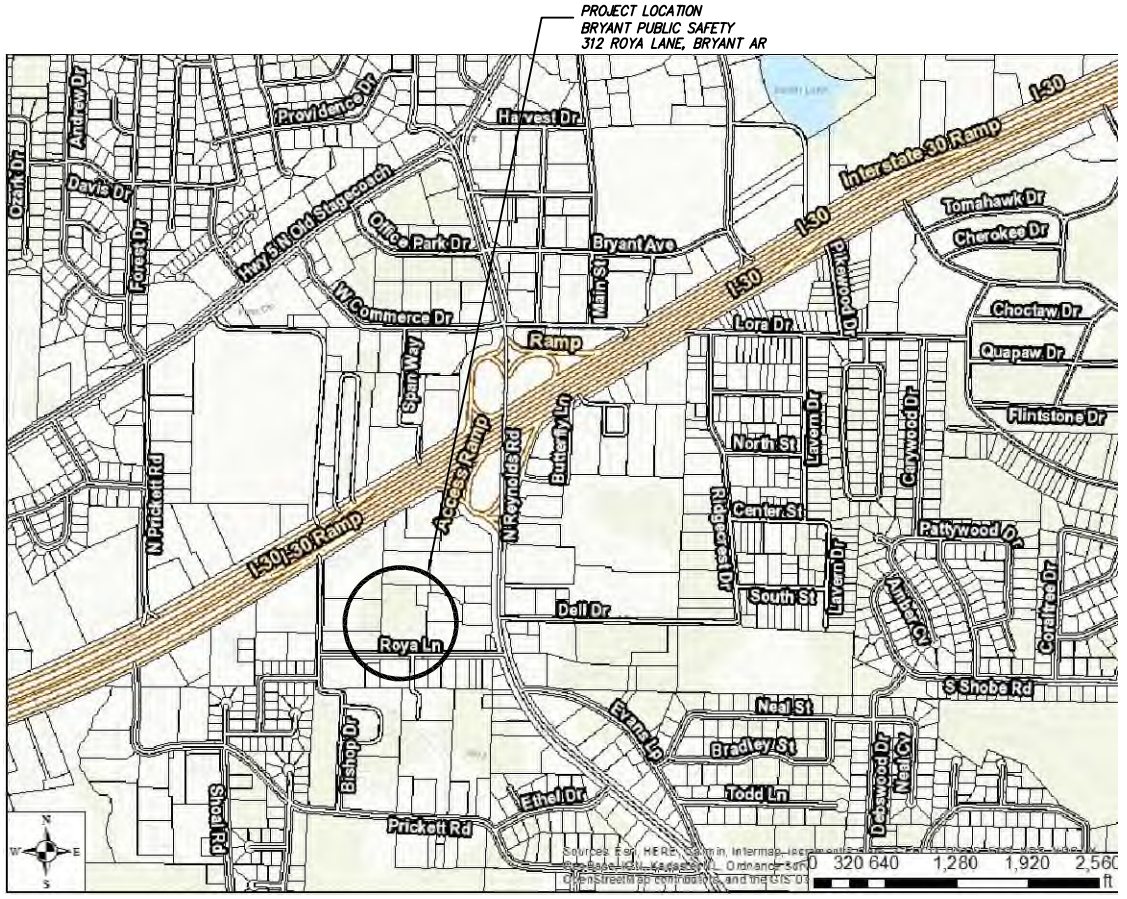


312 ROYA LANE  
 BRYANT, ARKANSAS 72022  
 PHONE: (501) 943-0943  
 WWW.CITYOFBRYANT.COM

PREPARED BY:  
 BRYANT ENGINEERING & CONST.

DRAWING INDEX

G1.0	TITLE SHEET
G2.0	GENERAL NOTES
C1.0	OVERALL SITE PLAN
C1.1	ENLARGED SITE PLAN
C2.0	GENERAL DETAILS OF FOUNDATION
C3.0	TEMPORARY EROSION CONTROL PLAN
TEC-1	AHTD TEMPORARY EROSION CONTROL DEVICES 1



VICINITY MAP - BRYANT, ARKANSAS



SALINE COUNTY, ARKANSAS

APPROVED BY:			DESIGNED BY:	REV	DESCRIPTION	BY	DATE	NORTH:	SCALE:	NAME: BRYANT PUBLIC SAFETY BUILDING	CITY OF BRYANT ARKANSAS	BRYANT POLICE DEPARTMENT MODULAR SHOOTING RANGE TITLE SHEET	SUBMITTAL DATE:
TITLE			BRYANT PD	A	DRC SUBMITTAL	BPD	11/23/21						11/23/21
SIGNATURE			DRAWN BY:										WORK ORDER NO.:
DATE			BEC										SHEET NO.:
TITLE			CHECKED BY:							BRYANT, ARKANSAS 72022			G1 OF G1
SIGNATURE													
DATE													
TITLE													

XXX###XXX.DWG

1. SAFETY

- 1.1. JOBSITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 1.2. THIS RESPONSIBILITY COVERS THEIR OWN WORK FORCE, ALL SUBCONTRACTORS, VISITING PERSONNEL, OFFICIALS, AND THE GENERAL PUBLIC WHICH MAY HAVE ACCESS TO THE JOBSITE.
- 1.3. THE CONTRACTOR SHALL EXERCISE COMPLETE CONTROL OVER WHO HAS ACCESS TO THE JOBSITE TO ENSURE JOBSITE SAFETY.
- 1.4. THE CONTRACTOR SHALL CONFORM TO ALL SECURITY AND SAFETY REQUIREMENTS OF THE OWNER.
- 1.5. ANY SAFETY OR OTHER TRAINING REQUIRED BY THE OWNER FOR THE WORK FORCE MUST BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

2. PERMITS

- 2.1. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AS REQUIRED BY REGULATING AUTHORITIES OR BY THE OWNER. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE TERMS AND CONDITIONS ASSOCIATED WITH EACH REQUIRED PERMIT, AS WELL AS ADHERING TO THE RULES AND REGULATIONS OF EACH REGULATING AUTHORITY.

3. CONTRACT DOCUMENTS

- 3.1. ALL WORK SHALL CONFORM TO THE PLANS, THESE NOTES, AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

4. INDEMNITY

- 4.1. BY ACCEPTING THE CONTRACT FOR THIS WORK, THE CONTRACTOR, AT THEIR OWN EXPENSE AND RISK, HEREBY RELEASES AND AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE OWNER, PROJECT ENGINEER, THEIR OFFICERS, AGENTS, EMPLOYEES, CONSULTANTS, AND REPRESENTATIVES FOR DAMAGE TO THE PROPERTY OR INJURY TO, OR DEATH, OF ANY PERSONS, FROM ANY AND ALL CLAIMS, DEMANDS, ACTIONS OF ANY KIND WHATSOEVER ARISING OUT OF AND IN CONNECTION WITH THE AGREEMENT OR PROSECUTION OF WORK UNDER IT, WHETHER SUCH CLAIMS, DEMANDS, ACTIONS, OR LIABILITY ARE CAUSED BY THE CONTRACTOR, ITS AGENTS, EMPLOYEES, SUBCONTRACTORS, PRODUCTS INSTALLED ON THE PROJECT OR CAUSED BY ANY OTHER PARTY.

5. CONSTRUCTION PROCEDURES, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN THESE NOTES OR SPECIFICATIONS.

- 5.1. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION – ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT.
- 5.2. INTERNATIONAL BUILDING CODE
- 5.3. ACI 315 MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES
- 5.4. CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING STEEL.
- 5.5. CITY OF BRYANT – WATER/WASTEWATER SPECIFICATIONS.
- 5.6. CITY OF BRYANT – MINIMUM STREETS STANDARDS.
- 5.7. CITY OF BRYANT – STORMWATER MANUAL & EROSION CONTROL PLAN

6. SITE

- 6.1. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- 6.2. CONTRACTOR IS NOT TO PERFORM WORK BEYOND THE DESIGNATED WORK LIMITS WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FROM THE PROJECT ENGINEER OR OWNER.
- 6.3. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION SUCH AS BUT NOT LIMITED TO: DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN EXISTING CONDITIONS.
- 6.4. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL ITEMS, SHOWN TO BE REMOVED OR RELOCATED AND NOT SHOWN WITHIN CONSTRUCTION LIMITS AND WHERE REQUIRED TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.
- 6.5. CONTRACTOR TO ADJUST ALL EXISTING AND PROPOSED MANHOLES, VALVE BOXES, ETC. TO FINISH GRADE, WHERE REQUIRED.

7. STRUCTURES

- 7.1. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM Poured MORTAR INVERT IN TO INVERT OUT.
- 7.2. BEDDING FOR STORM STRUCTURES SHALL CONSIST OF A MINIMUM OF 6-INCHES OF COMPACTED #57 STONE ON TOP OF COMPACTED SUBGRADE.
- 7.3. AREAS EXPOSED BY EXCAVATION OR STRIPPING AND ON WHICH SUBGRADE PREPARATIONS ARE TO BE PERFORMED SHALL BE SCARIFIED TO MINIMUM DEPTH OF 0'-8" AND COMPACTED TO MINIMUM OF 95% OPTIMUM DENSITY. ANY AREAS THAT FAIL COMPACTION ARE TO BE STABILIZED AS DIRECTED BY THE ENGINEER.

8. PRIOR TO PLACING FILL IN LOW AREAS, SUCH AS PREVIOUSLY EXISTING CREEKS, PONDS, OR LAKES, PERFORM FOLLOWING PROCEDURES:

- 8.1. DRAIN WATER OUT BY GRAVITY WITH DITCH HAVING FLOW LINE LOWER THAN LOWEST ELEVATION IN LOW AREA. IF DRAINAGE CANNOT BE PERFORMED BY GRAVITY DITCH, USE ADEQUATE PUMP TO OBTAIN THE SAME RESULTS.
- 8.2. AFTER DRAINAGE OF LOW AREA IS COMPLETE, REMOVE MULCH, MUD DEBRIS, AND OTHER UNSUITABLE MATERIAL BY USING ACCEPTABLE EQUIPMENT AND METHODS THAT WILL KEEP NATURAL SOILS UNDERLYING LOW AREA DRY AND UNDISTURBED.

9. UTILITIES

- 9.1. AN ATTEMPT HAS BEEN MADE TO APPROXIMATELY LOCATE UTILITIES ON THE DRAWINGS.
- 9.2. UTILITIES SHOWN ON THE DRAWINGS WERE LOCATED BY VISUAL OBSERVATION, AND BY TRANSCRIBING FROM RECORD MAPS AND PLANS.
- 9.3. NO EXCAVATIONS WERE MADE TO CONFIRM SUB-SURFACE UTILITIES. NEITHER THE SURVEYOR NOR PROJECT ENGINEER GUARANTEES THAT ALL UTILITIES HAVE BEEN SHOWN, OR THAT THOSE SHOWN ARE FULLY ACCURATE.
- 9.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADJUSTMENTS AND/OR RELOCATION OF EXISTING UTILITIES THAT ARE DAMAGED AS A RESULT OF WORK OF THIS PROJECT.
- 9.5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROPERLY DISCONNECTING, ABANDONING, RELOCATING, AND/OR ADJUSTING ALL AFFECTED UTILITIES WITHIN THE PROJECT AREA.
- 9.6. ALL UTILITY WORK SHALL BE COORDINATED AND EXECUTED IN ACCORDANCE WITH THE OWNER AND/OR GOVERNING UTILITY COMPANY CODES, SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
- 9.7. DESIGN AND ALIGNMENT OF UNDERGROUND TELEPHONE, TV CABLE, GAS AND ELECTRIC SERVICES SHALL BE PROVIDED BY THE INDIVIDUAL UTILITIES AND ARE NOT NECESSARILY SHOWN WITH THESE PLANS. CONTRACTOR SHALL PROVIDE CONDUITS SIZED TO ACCOMMODATE UTILITY ROUTING WITH PULL STRINGS WHERE NECESSARY.
- 9.8. CONTRACTOR TO PROVIDE ALL NECESSARY APPURTENANCES NECESSARY FOR COMPLETE UTILITY SERVICES WHICH ARE NOT PROVIDED BY THE UTILITY COMPANY.
- 9.9. WATER AND SEWER RELOCATIONS SHOWN SHALL COMPLY WITH THE CITY OF BRYANT'S STANDARD WATER AND SEWER SPECIFICATIONS AND DETAILS. SERVICE LINE WORK SHALL BE COMPLETED BY A LICENSED PLUMBER AND COMPLY WITH ARKANSAS PLUMBING CODE.

10. DISPOSAL OF DEBRIS, WASTE OR SPOIL

- 10.1. BURNING OF DEBRIS AND WASTE IS NOT ALLOWED. CONTRACTOR MAY BE REQUIRED TO PROPERLY HAUL AWAY AND DISPOSE OF ANY WASTE MATERIAL REMOVED FROM THE SITE.
- 10.2. ANY WASTE OR SPOIL MATERIAL WHICH IS EXCAVATED FROM THE JOB SITE IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER OR OWNER.
- 10.3. REMOVAL AND DISPOSAL OF EXCAVATED WASTE MATERIAL IS CONSIDERED SUBSIDIARY TO ALL OTHER ITEMS IN THE PROJECT, AND WILL NOT BE PAID FOR SEPARATELY.
- 10.4. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE AND FEDERAL REGULATIONS IN DISPOSING OF DEMOLISHED MATERIAL REMOVED FROM THIS SITE.
- 10.5. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF MATERIAL ENCOUNTERED IN GRADING OPERATIONS THAT, IN OPINION OF THE ENGINEER, IS UNSUITABLE OR UNDESIRABLE FOR BACKFILLING OR SUBGRADE PURPOSES. DISPOSE OF IN A MANNER SATISFACTORY TO ENGINEER. BACKFILL UNDERCUT AREAS WITH LAYERS OF SUITABLE MATERIAL AND COMPACT AS SPECIFIED HEREIN.

11. SUBSTITUTIONS

- 11.1. SUBSTITUTIONS ARE NOT ALLOWED WITHOUT PRIOR APPROVAL FROM THE PROJECT ENGINEER.

12. ENVIRONMENTAL

- 12.1. THE CONTRACTOR IS TO MEET ALL ENVIRONMENTAL REQUIREMENTS OF THE OWNER AND ANY REGULATORY AGENCY HAVING AUTHORITY OVER THIS SITE.
- 12.2. THE CONTRACTOR IS TO UTILIZE BEST MANAGEMENT PRACTICES (BMP'S) FOR CONTROL OF EROSION DURING ALL CONSTRUCTION PHASES OF THIS PROJECT.
- 12.3. MINIMUM BMP'S REQUIRED FOR THE PROJECT ARE LISTED ON SHEET THESE PLANS. CONTRACTOR SHALL PROVIDE THESE BMP'S AND ANY OTHERS REQUIRED FOR THE PROJECT.
- 12.4. CONTRACTOR SHALL KEEP WORK AREA CLEAN AND FREE OF ACCUMULATED TRASH AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING MEASURES TO AVOID TRACKING OF MUD, DIRT, ROCKS, AND DEBRIS ONTO AREAS OUTSIDE THE PROJECT AREA. CONTRACTOR SHALL CLEAN PAVEMENTS WHEN NECESSARY OR AS OTHERWISE DIRECTED, AND SHALL CONTROL DUST BY SWEEPING AND WATERING AS NEEDED. DE-TRACKING MAY BE REQUIRED AT ALL ENTRANCES.

13. FINAL SITE CONDITIONS

- 13.1. ALL DISTURBED AREAS NOT RECEIVING PAVEMENT OR LANDSCAPING SHALL HAVE VEGETATION ESTABLISHED AT TIME OF FINAL INSPECTION.
- 13.2. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPE 2H:1V OR STEEPER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- 13.3. ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED.
- 13.4. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS
- 13.5. UPON PARTIAL OR FINAL COMPLETION OF GRADING WORK, SPREAD TOPSOIL, SEED, FERTILIZER, AND MULCH IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE STORM WATER POLLUTION PREVENTION PLAN.

14. TRAFFIC CONTROL


- 14.1. CONTRACTOR SHALL ENGAGE A SUBCONSULTANT WHO SPECIALIZES IN MAINTENANCE OF TRAFFIC PLANS. SUBCONSULTANT SHALL PREPARE A MAINTENANCE OF TRAFFIC PLAN FOR THE PROJECT THAT COMPLIES WITH THE REQUIREMENTS OF MUTCD AND ALL APPLICABLE AUTHORITIES HAVING JURISDICTION OVER ROAD RIGHT-OF-WAY. CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLAN TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

15. MODULAR SHOOTING RANGE – MANUFACTURER REQUIREMENTS:

- 15.1. INSTALLATION OF CONCRETE PAD OR STRIP FOOTERS FOR THE READY RANGE MODULES PER SRI DRAWINGS AND WRITTEN INSTRUCTION. INSPECTION OF SUCH SITE PREPARATIONS TO BE CONDUCTED BY SRI REPRESENTATIVE BEFORE READY RANGE PRODUCT IS SHIPPED FROM FACTORY.
- 15.2. CONTRACTOR IS TO PROVIDE 208V, 3PH, 125AMP TO 300AMP PRIMARY POWER ("WYE" SYSTEM) NEEDED FORMCSATS TO THE CONNECTION BOX ON EACH SET OF MODULES. SRI WILL PROVIDE DETAILED POWER REQUIREMENTS BASED ON CUSTOMER COMPLETED QUESTIONNAIRE, SPECIFIC SITE/RANGE HEATING AND COOLING REQUIREMENTS AND AVAILABILITY OF NATURAL/LP GAS. SRI WILL PROVIDE CONNECTION BOX LOCATIONS CLEARLY MARKED ON SHOP DRAWINGS.
- 15.3. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL SITE ACCESS REQUIREMENTS FOR CRANES, TRUCKS, RANGE MODULE DELIVERY AND FORKLIFTS TO INCLUDE, ROADS, GROUND WORK, UTILITY CLEARANCES, OVERHEAD CLEARANCES (TREES, POWER LINES), SITE LAYDOWN/STAGING AREA AS REQUIRED FOR PROJECT SIZE.
- 15.4. CONTRACTOR IS TO PROVIDE 115V TEMPORARY POWER TO THE INSTALL SITE AS WELL AS DUMPSTER AND PORTA-TOILETS OR RESTROOMS FOR USE DURING INSTALLATION.
- 15.5. CONTRACTOR IS TO PROVIDE FINAL CONNECTION OF UTILITIES, (POWER, NATURAL GAS OR PROPANE), TO THE READY RANGE BY LOCALLY CERTIFIED SERVICE PROVIDER/CONTRACTOR PER THE PLANS AND SPECIFICATION DURING THE INSTALLATION PERIOD.
- 15.6. CONTRACTOR IS TO ASSURE COORDINATION WITH OTHER TRADES, LOCAL AGENCIES TO MARK UNDERGROUND POWER AND GAS LINES AS WELL AS THE LOCAL POWER BOARD RELATED TO THE SURROUNDING POWER LINES AND THE SUPPLY OF SUITABLE POWER AS PER SRI DETAILED PROJECT DRAWINGS.
- 15.7. CONTRACTOR IS RESPONSIBLE FOR SITE SCHEDULE ANY SHUT DOWN BY ACTIONS OF OTHERS THAN THAT OF SRI, AN 'IDLE JOB FEE' OF \$650.00 FOR PER MAN PER CALENDAR DAY PLUS SITE EQUIPMENT, THAT WORK CANNOT COMMENCE, WILL BE ASSESSED.

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TITLE	SIGNATURE	DATE	A	DRC SUBMITTAL	BPD	11/23/21	N/A	ADDRESS:			312	WORK ORDER NO.:
TITLE	SIGNATURE	DATE	DRAWN BY:	BEC				STREET:			ROYA LANE	
TITLE	SIGNATURE	DATE	CHECKED BY:					PHONE:				
								BRYANT, ARKANSAS 72022			SHEET NO.:	
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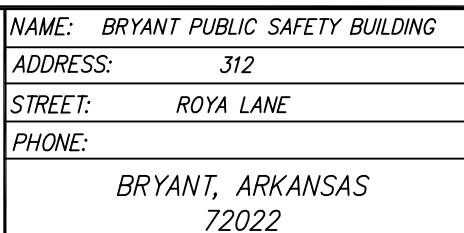
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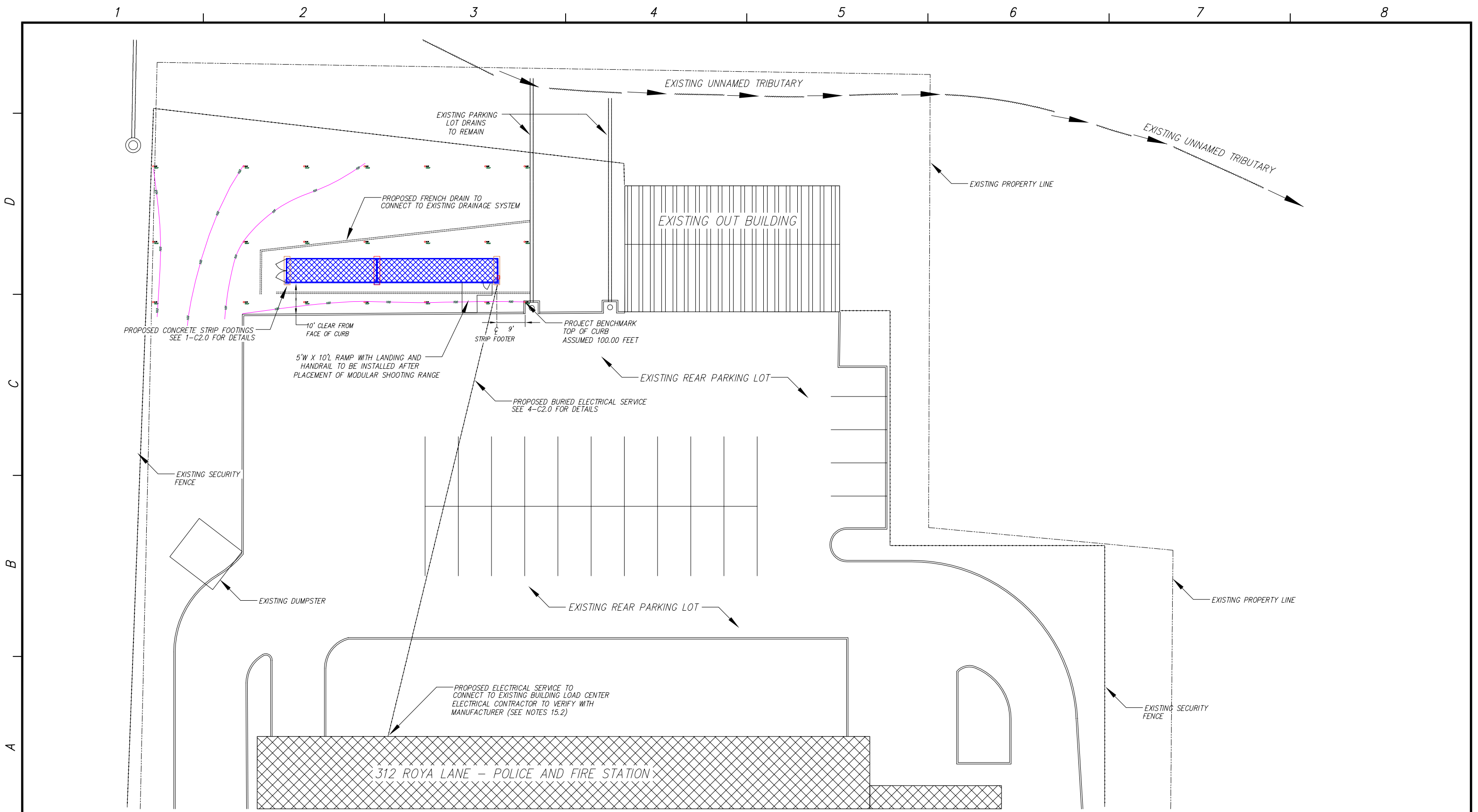
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ADDRESS: 312  
STREET: ROYAL LANE  
PHONE:  
BRYANT, ARKANSAS  
72022



MODULAR SHOOTING RANGE  
ENLARGED PLAN &  
GENERAL ARRANGEMENT

SUBMITTAL DATE:  
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NAME:	BRYANT PUBLIC SAFETY BUILDING
ADDRESS:	312
STREET:	ROYA LANE
PHONE:	
	BRYANT, ARKANSAS 72022

MODULAR SHOOTING RANGE
ENLARGED PLAN & GENERAL ARRANGEMENT

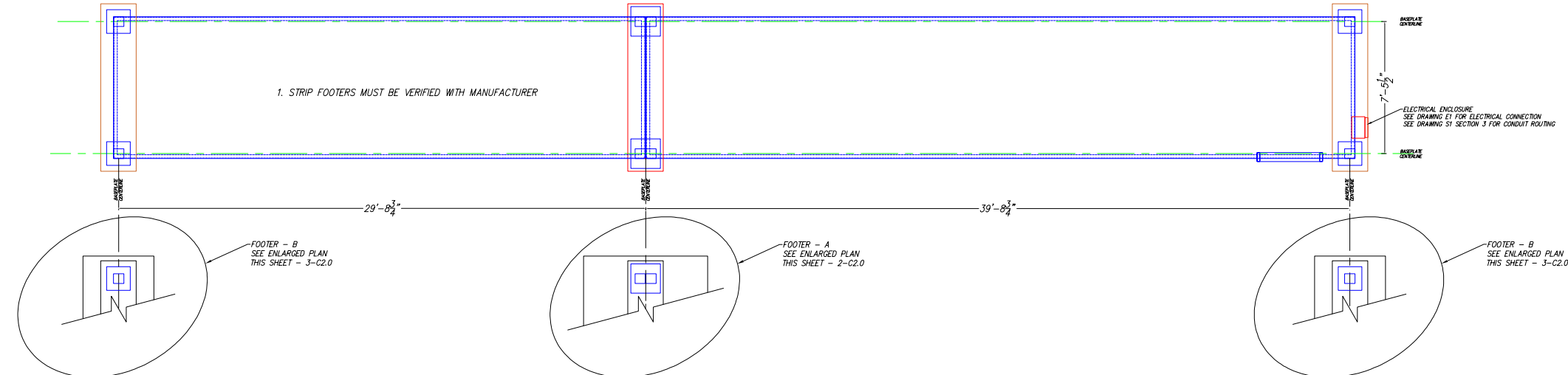


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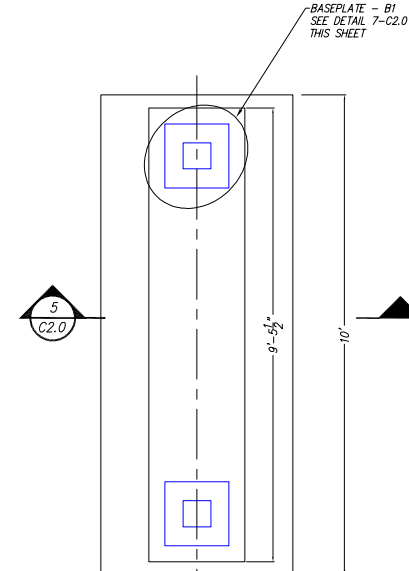


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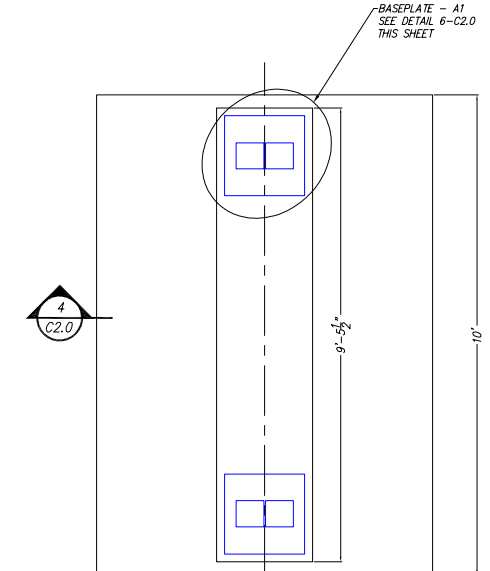


PLAN: STRIP FOOTER  
SCALE: AS INDICATED

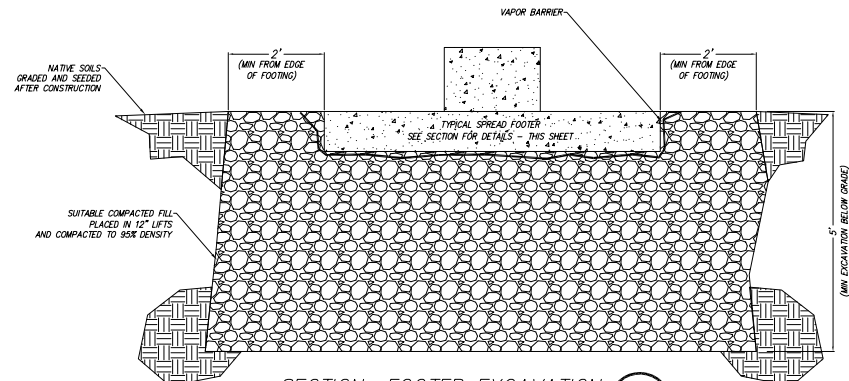
- NOTES:
1. STRIP FOOTERS MUST BE VERIFIED WITH MANUFACTURER SEE GENERAL NOTE 15.1
  2. LOCATIONS OF FOOTINGS MUST BE UNDERCUT AS INDICATED AND REPLACED WITH CRUSHED STONE (57) IN LIFTS OF 12 INCHES AND EACH LIFT COMPACTED TO 95% DENSITY.
  3. ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH CRSI REQUIREMENTS
  4. CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.



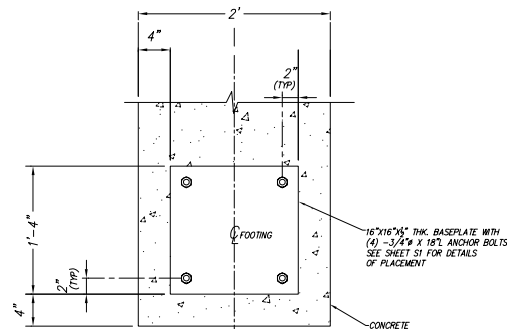
PLAN: FOOTER - B  
SCALE: 1" = 2'-0" REQD: 2 C2.0



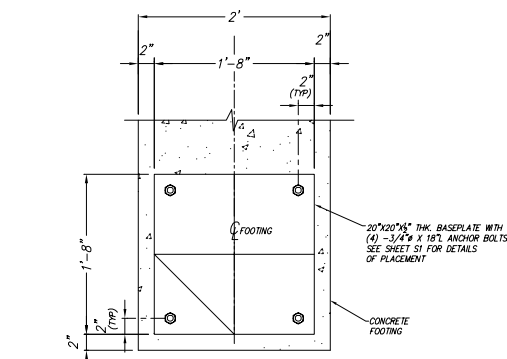
PLAN: FOOTER - A  
SCALE: 1" = 2'-0" REQD: 1 C2.0



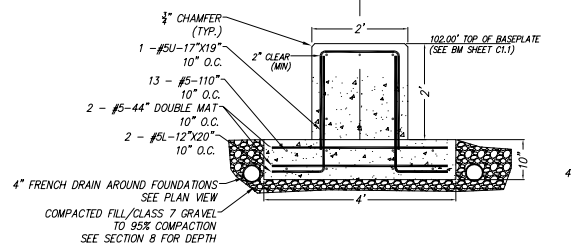
SECTION: FOOTER EXCAVATION  
SCALE: 1" = 2'-0" REQD: 1 C2.0



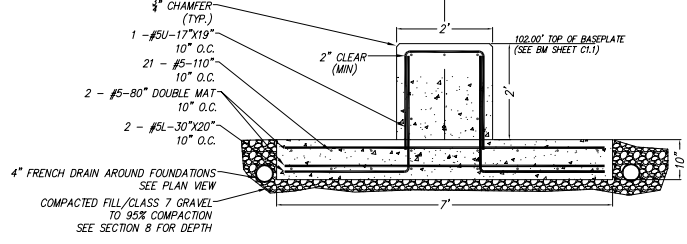
DETAIL: BASEPLATE A-1  
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DETAIL: BASEPLATE A-1  
SCALE: 1" = 1'-0" REQD: 2 C2.0



SECTION: FOOTER - B  
SCALE: 1" = 2'-0" REQD: 2 C2.0



SECTION: FOOTER - A  
SCALE: 1" = 2'-0" REQD: 1 C2.0

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	GRAPHIC SCALE

NAME:	BRYANT PUBLIC SAFETY BUILDING
ADDRESS:	312
STREET:	ROYA LANE
PHONE:	
	BRYANT, ARKANSAS 72022

CITY OF BRYANT ARKANSAS	
MODULAR SHOOTING RANGE	
FOUNDATION DETAILS	
GENERAL ARRANGEMENT	

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