BRYANT POLICE DEPARTMENT

2-LANE 70 FEET "TACTICAL" RIFLE RATED RANGE

BRYANT, ARKANSAS

BY:

SHOOTING RANGE INDUSTRIES, LLC

MILO

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A2	EXTERIOR ELEVATIONS (NORTH-SOUTH-EAST-WEST)
E1	ELECTRICAL LAYOUT (PLAN AND SECTION VIEW)
M1	H.V.A.C. LAYOUT UTILITY LAYOUT (PLAN VIEW)
M2	H.V.A.C. LAYOUT (SECTION VIEW)
S1	RANGE FOOTING LAYOUT AND LOAD REACTIONS AT CORNER BLOCKS (PLAN AND DETAILS)
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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: _____

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ORTHOGRAPHIC PROJECTION

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Customer Initial: _____ Date: _____

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NORTH LAS VEGAS, NV 89030
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2-LANE 70 FEET HIGH CUBE
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312 ROYAL LANE, BRYANT, AR 72022
PHONE NO. (501) 943-0372

Drawing Title
COVER SHEET

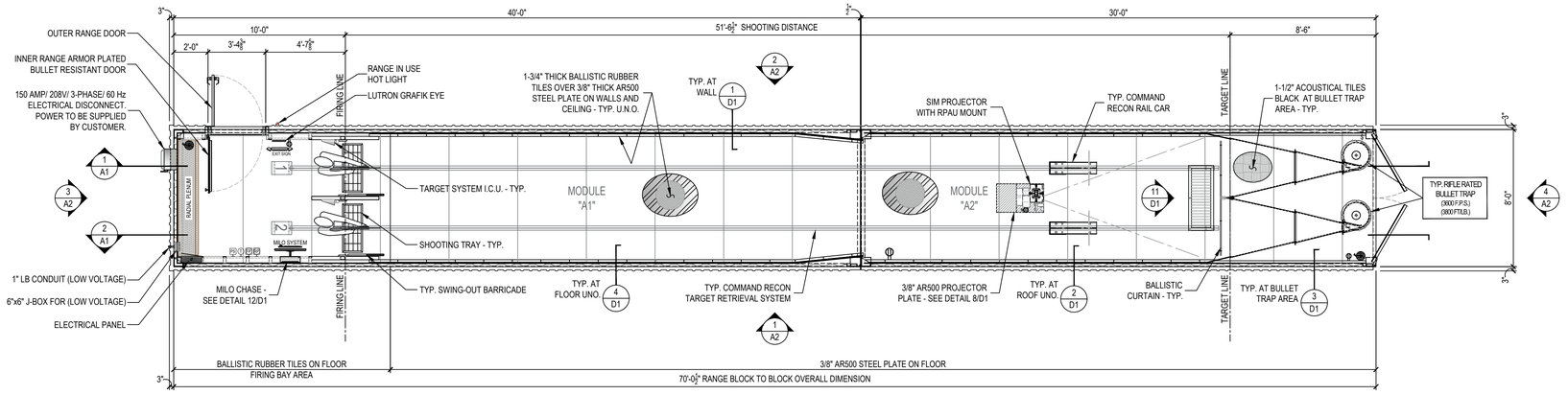
REVISION	DESCRIPTION	DATE	BY
1	FOR CONSTRUCTION	02-16-2022	VP

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

Project No.	Scale	Sheet No.
SRI22103	AS NOTED	A0 Sheet 1 of 8

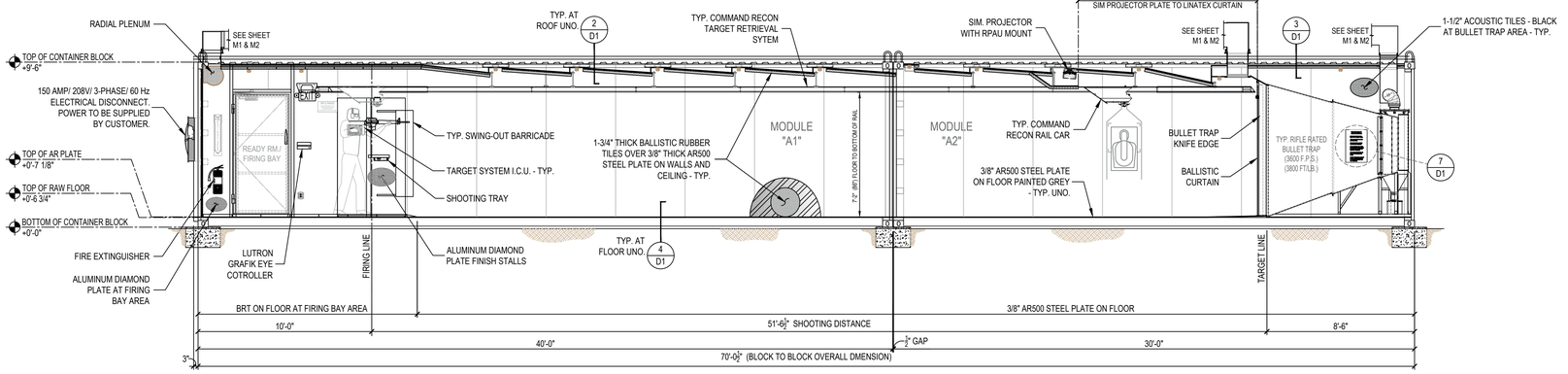
Drawing No. 22-103 Bryant PD | Rev. -

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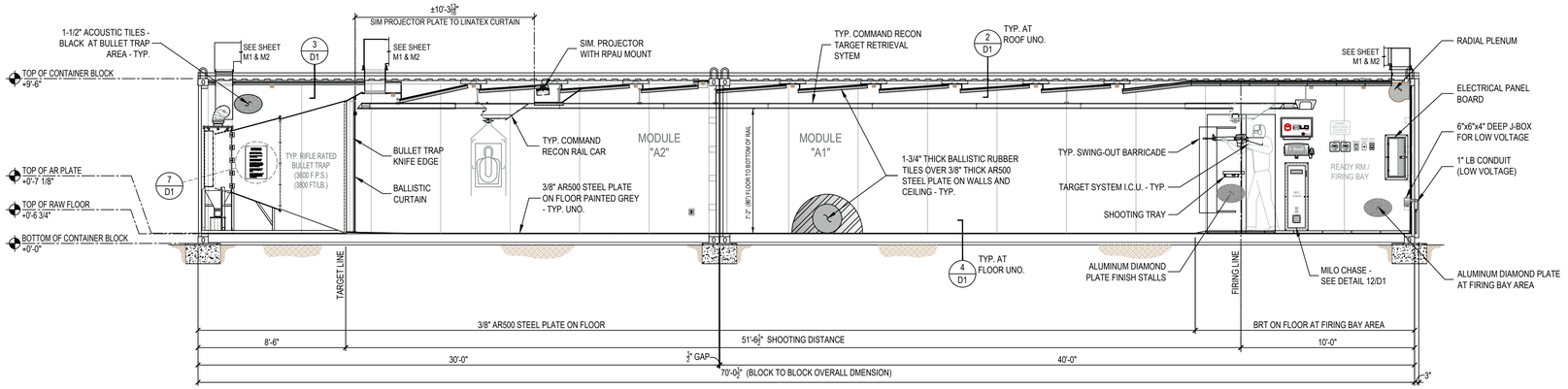
PLAN VIEW - RANGE DESIGN LAYOUT

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



1 LONGITUDINAL SECTION - RANGE LAYOUT

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2 LONGITUDINAL SECTION - RANGE LAYOUT

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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
RANGE DESIGN LAYOUT
(PLAN & SECTION VIEW)

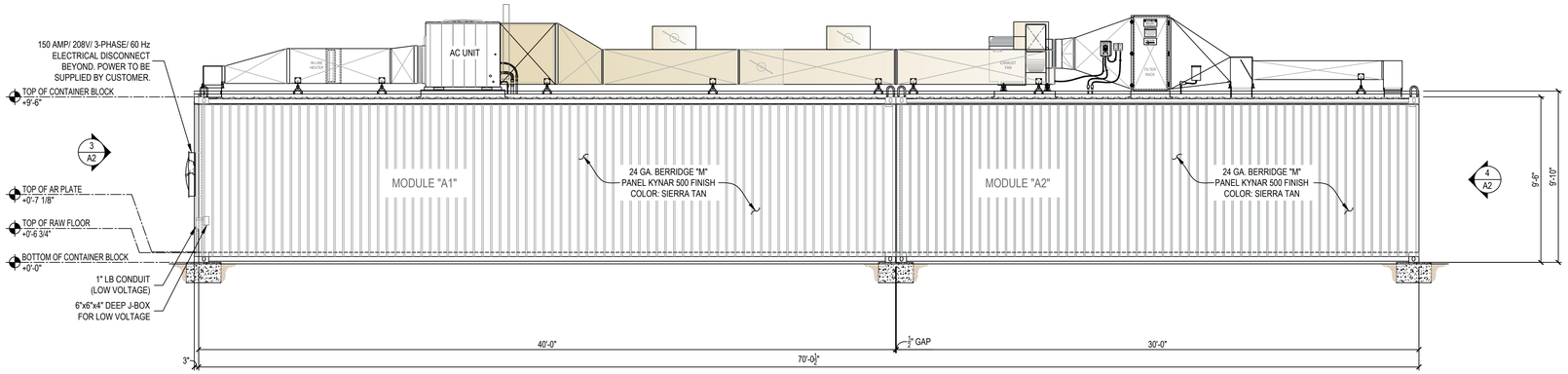
REVISION	DESCRIPTION	DATE	BY
1	FOR CONSTRUCTION	02-16-2022	VP

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VP	02.03.2022	MH	02.03.2022	JC	02.03.2022

Project No.	Scale	Sheet No.
SRI22103	AS NOTED	A1 Sheet 2 of 8

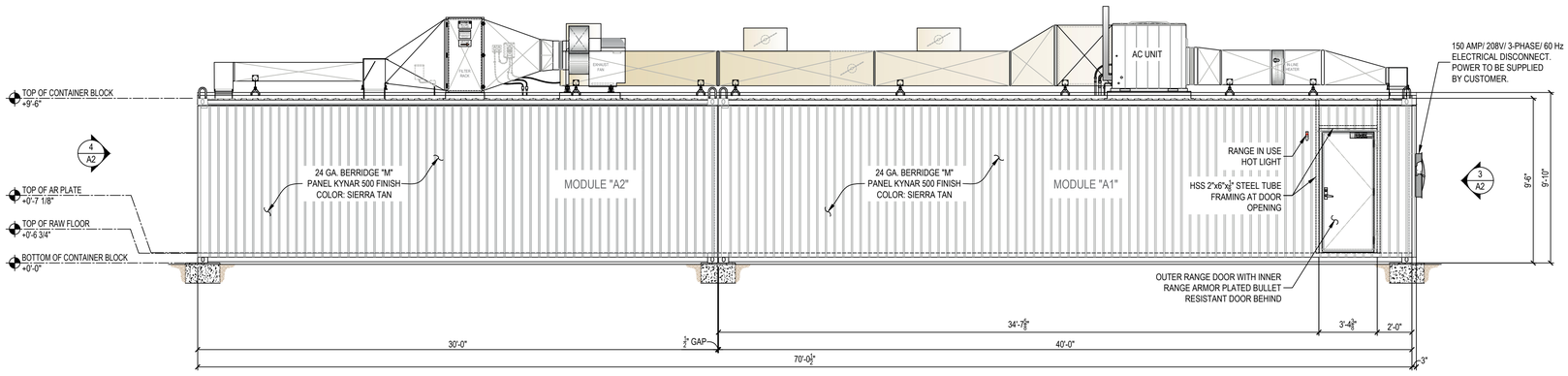
Drawing No. 22-103 Bryant PD
Rev. -

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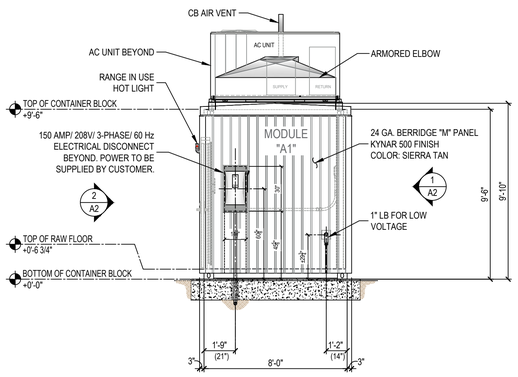
1 EXTERIOR ELEVATION - NORTH SIDE

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



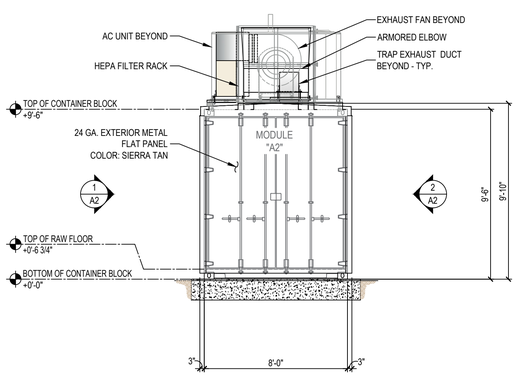
2 EXTERIOR ELEVATION - SOUTH SIDE

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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EXTERIOR ELEVATIONS
(PLAN & SECTION VIEW)

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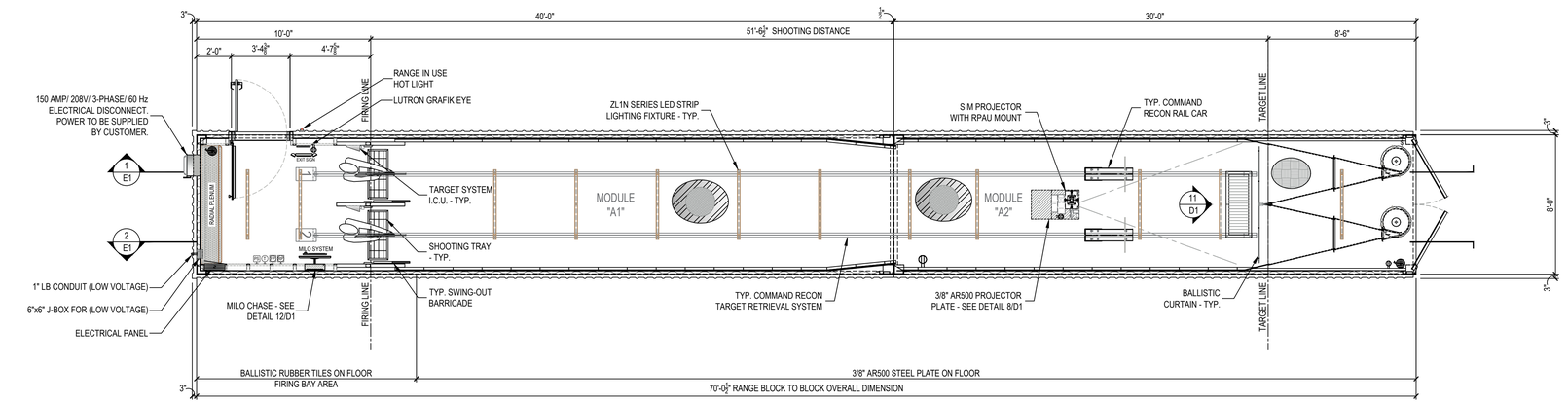
Project No.	Scale	Sheet No.
SRI22103	AS NOTED	A2 Sheet 3 of 8

Drawing No. 22-103 Bryant PD
Rev. -

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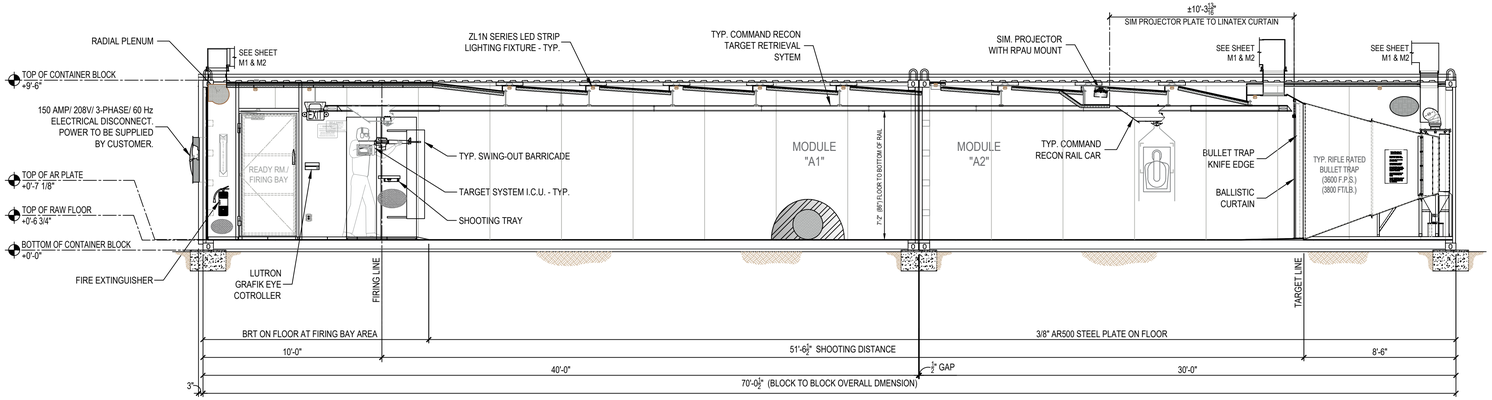
LIGHTING FIXTURE SCHEDULE								
QTY.	SYMBOL	BRAND	MODEL NO.	VOLTAGE	REQUIRED LAMPS		MOUNTING	REMARKS
					NUM.	TYPE		
12	ELEV. / PLAN	LITHONIA	ZL1N	MVOLT 120V - 277V	1	0-10V DIMMING STD. NPP16D NLIGHT SWITCHING/ DIMMING MODULE (3,500 LUMENS)	CEILING	LED STRIPLIGHT, SNAP ON FROSTED, DIFFUSE
1		LITHONIA	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)
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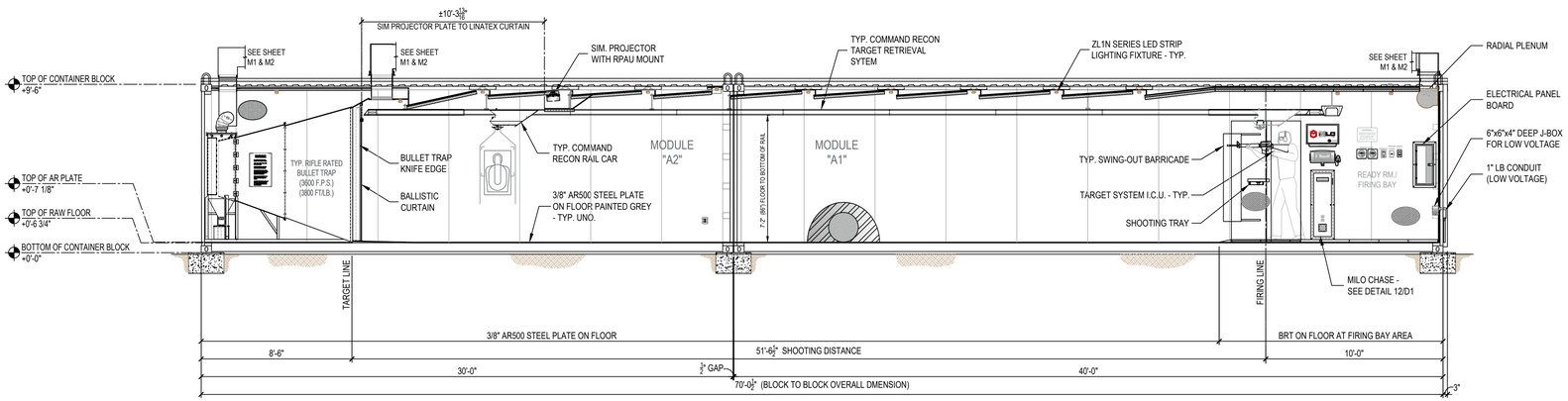
PLAN VIEW - ELECTRICAL LAYOUT

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



1 LONGITUDINAL SECTION - ELECTRICAL LAYOUT

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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
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.	Scale	Sheet No.
SRI22103	AS NOTED	E1 Sheet 4 of 8

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

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 Parin

EXHAUST FAN SCHEDULE

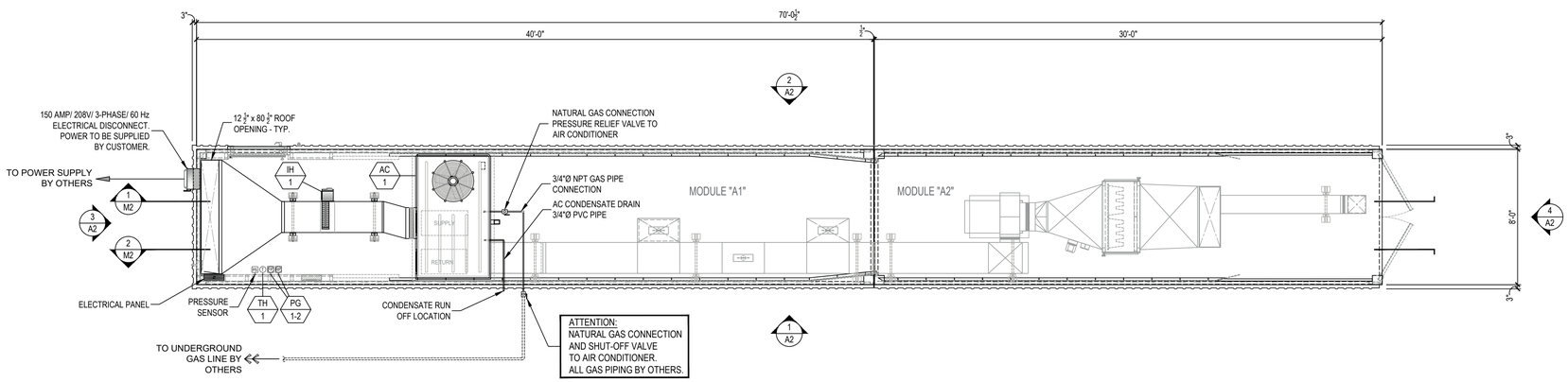
UNIT NO.	SERVICE	LOCATION	FAN DATA					MOTOR / ELECTRICAL DATA						ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS
			CFM	S.P. IN WG	RPM	FAN TYPE	DRIVE	HP	INPUT WATTS	VOLTS	PH	HZ	RPM			
EF-1	FIRING RANGE	ROOF	4,400	2.5	1,980	BWI	BELT	5.0		230/460	3	60	1,755	357.98	DAYTON 7H171	

ROOF TOP UNIT SCHEDULE

UNIT NO.	SERVICE	FAN DATA					ELECTRICAL DATA				COOLING COIL SECTION					GAS HEAT SECTION				COMPRESSOR SECTION			ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS
		FAN TYPE	CFM	ESP	BHP	HP	VOLTS	PH	MROPD (A)	MCA (A)	CAPACITY Btu/hr	ENT.TEMP (F) D/B	ENT.TEMP (F) W/B	LEA.TEMP (F) D/B	LEA.TEMP (F) W/B	AMBIENT DB (F)	CAPACITY INPUT MBH	CAPACITY OUTPUT MBH	EAT. (F)	LEA. (ARH)	HEAT CONTROL	CAPACITY CONTROL	POWER AMPS	REFRIG TYPE			
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 YSC012KH3ELA	
IH-1	FIRING RANGE		1,222				208	3																	13.20 NET	WATTCO DFCI00H	

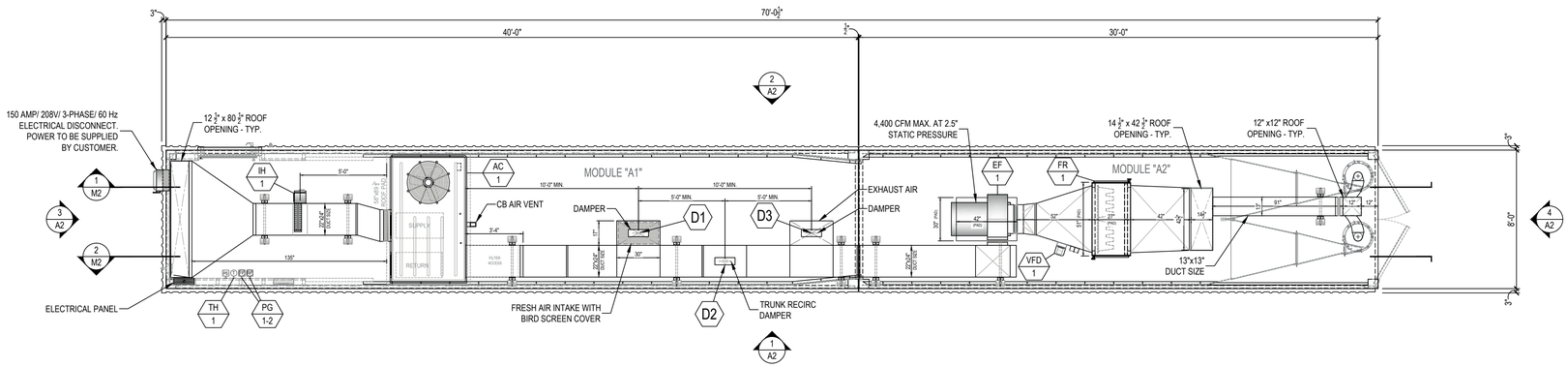
DAMPER SCHEDULE - SEQUENCE OF OPERATION

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)



PLAN VIEW - UTILITY LAYOUT

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



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

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

H.V.A.C. REFERENCE KEYNOTES

AC 1	AC = 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	EF = ROOF/BRACKET MOUNTED EXHAUST FAN "DAYTON" MODEL #7H171 5.0 H.P. 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	WEG VARIABLE FREQUENCY DRIVE, 5 MAX. HP, 3 INPUT PHASE AC 240 VAC INPUT VOLTAGE, 16 AMPS. MAX. OUTPUT MODEL NO. CFW080160TDNA1Z
IH 1	15.0 kW / 41.64 AMP / 208V / 3-PHASE / 1,222 CFM / 400 FPM DUCT HEATER "WATTCO" MODEL # DF CI00H
PG 1-2	(2) - DWYER MAGNEHELIC 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. TRD24T4XY21

H.V.A.C. SEQUENCE OF OPERATIONS

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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.

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PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.

CUSTOMER SIGN OFF:

DATE: _____

SIGNATURE: _____

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Such conflicts noted above shall be reported immediately to the engineer.

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.

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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).
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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.
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6. SRI suggests lead handling & employee protection by the manual provided by the National Shooting Sports Foundation (NSSF).

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2-LANE 70 FEET HIGH CUBE
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312 ROYAL LANE, BRYANT, AR 72022
PHONE NO. (501) 943-0372

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

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

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

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

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

File Path C:\SRI Cadd Drawings 2022\Ready Ranges\22-XXX Bryant PD\S
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EXHAUST FAN SCHEDULE

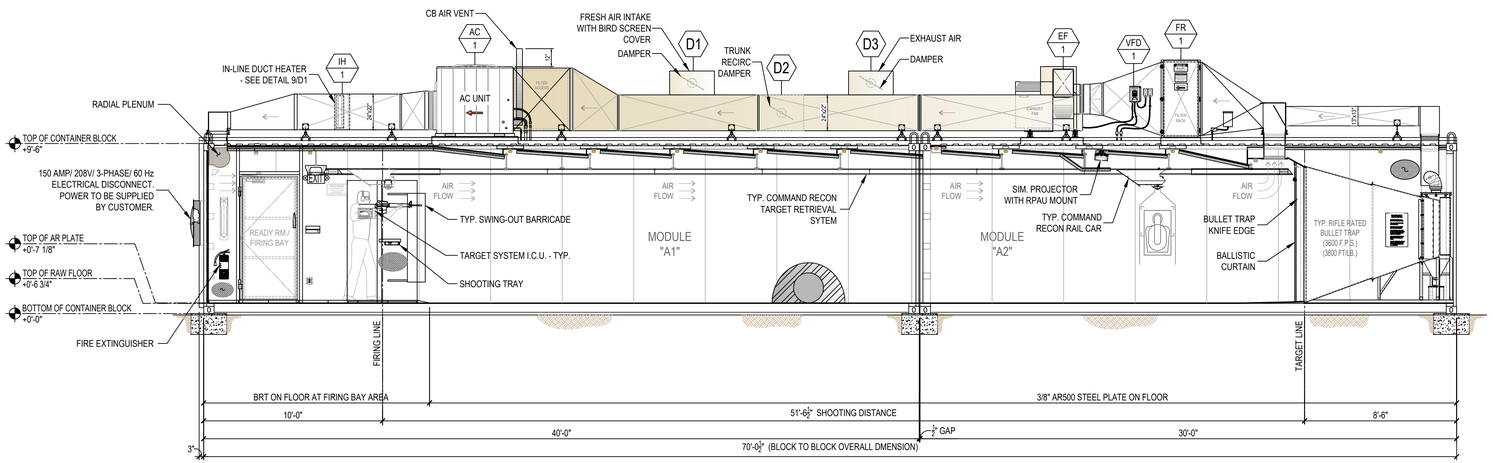
UNIT NO.	SERVICE	LOCATION	FAN DATA					MOTOR / ELECTRICAL DATA						ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS
			CFM	S.P. IN WG	RPM	FAN TYPE	DRIVE	HP	INPUT WATTS	VOLTS	PH	HZ	RPM			
EF-1	FIRING RANGE	ROOF	4,400	2.5	1,980	BWI	BELT	5.0		230/460	3	60	1,755	357.98	DAYTON 7H171	

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		FAN TYPE	CFM	ESP	BHP	HP	VOLTS	PH	MROPD (A)	MCA (A)	CAPACITY Btu/hr	ENT.TEMP (F) D/B	ENT.TEMP (F) W/B	LEA.TEMP (F) D/B	LEA.TEMP (F) W/B	AMBIENT DB (F)	CAPACITY INPUT MBH	CAPACITY OUTPUT MBH	EAT. (F)	LEA. (ARH)	HEAT CONTROL	CAPACITY CONTROL	POWER AMPS	REFRIG TYPE			
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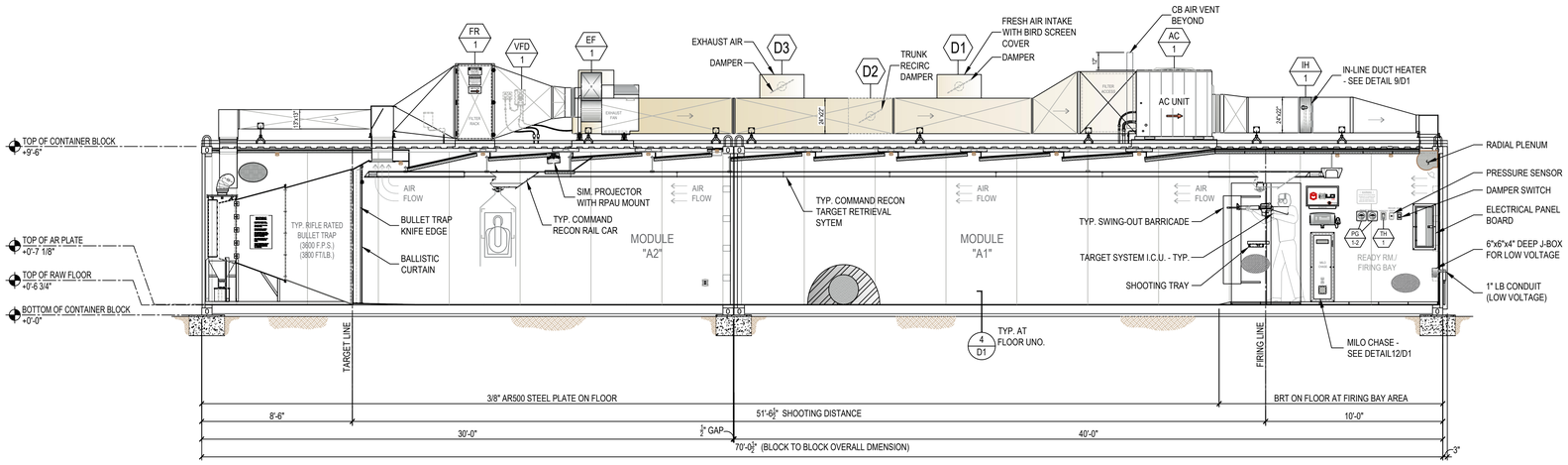
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1 LONGITUDINAL SECTION - H.V.A.C. LAYOUT

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



2 LONGITUDINAL SECTION - H.V.A.C. LAYOUT

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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
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CUSTOMER SIGN OFF:

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SIGNATURE: _____

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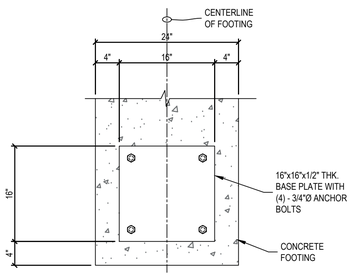
REVISION	DESCRIPTION	DATE	BY
1	FOR CONSTRUCTION	02-16-2022	VP

Drawn Date	Checked Date	Approved Date
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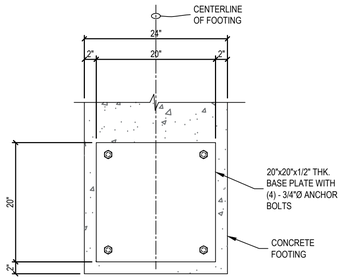
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SRI22103	AS NOTED	M2 Sheet 6 of 8

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

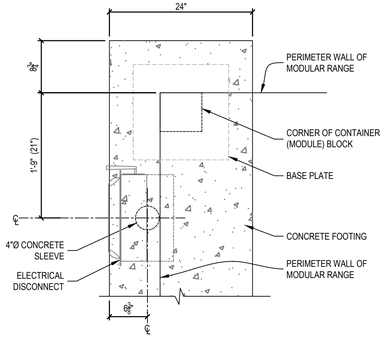
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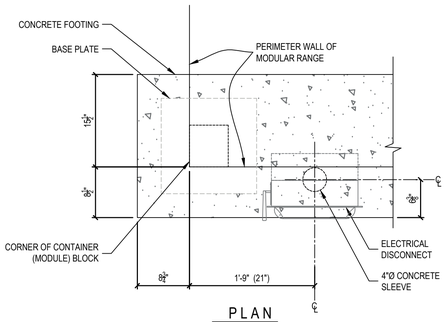
BASE PLATE PLAN



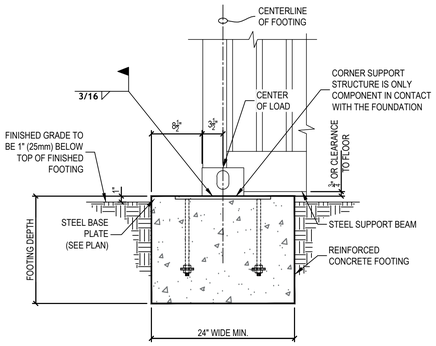
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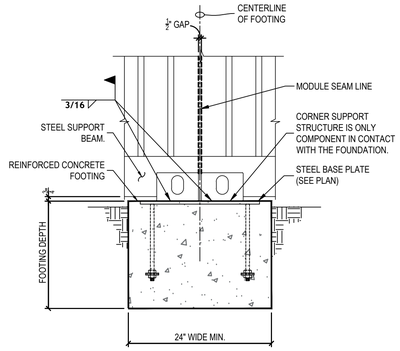
PLAN



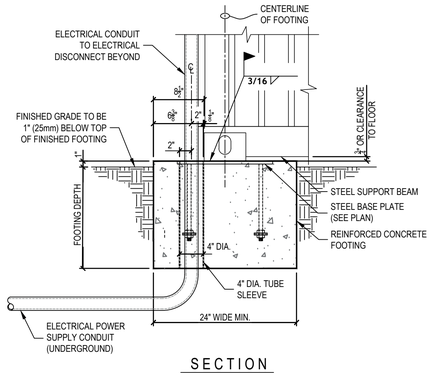
PLAN



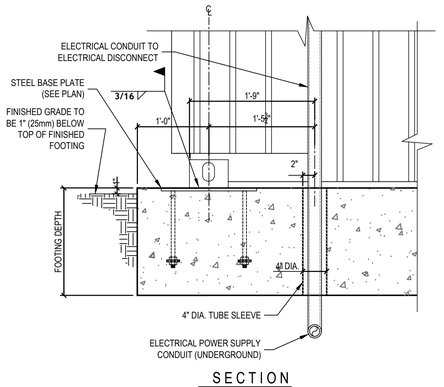
SECTION



SECTION



SECTION



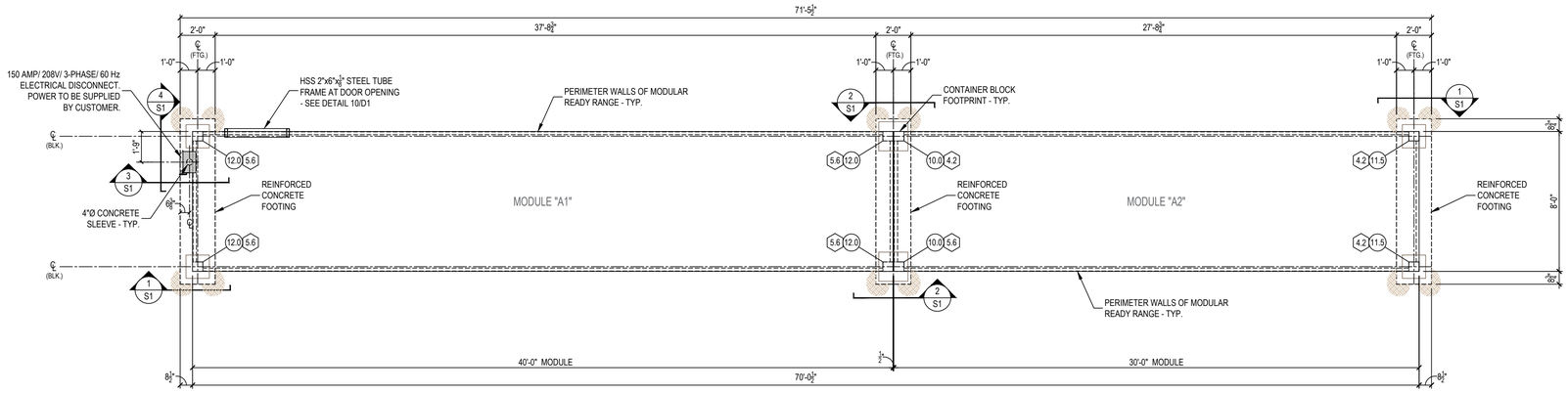
SECTION

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"

NORTH

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:

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

GROUNDING NOTES:

Lightning protection system to be designed per (NFPA 780) requirements and be provided and installed by others. A (#4/0 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 ft. bare #4 AWG CU conductor at bottom of footing) or 8' x 5/8" diameter copper ground rod. The lighting protection system shall be bonded to the grounding system per NEC 250.106 requirements. A 4/0 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.

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.

FOR CONSTRUCTION

PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.

CUSTOMER SIGN OFF:

DATE: _____

SIGNATURE: _____

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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 structures(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/their 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 customers 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
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

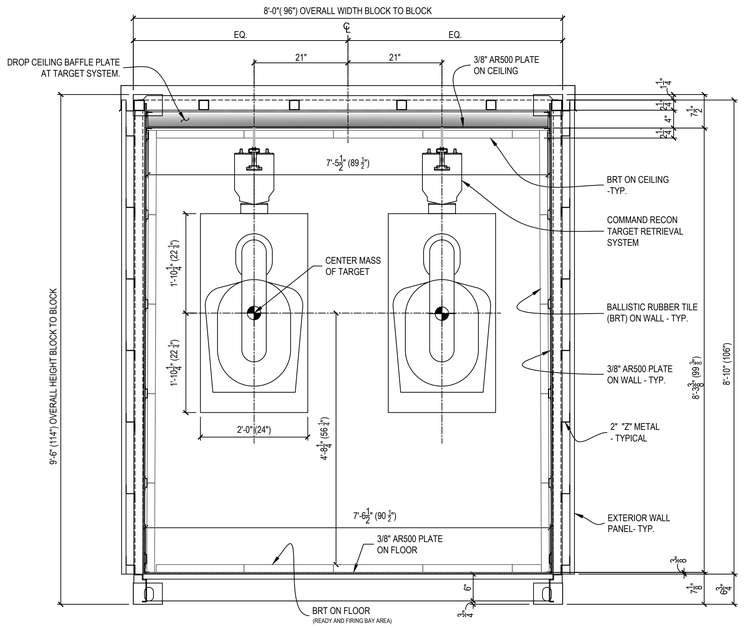
Drawing Title
FOOTING LAYOUT
FOOTING DETAILS
LOAD REACTIONS/CALCS

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

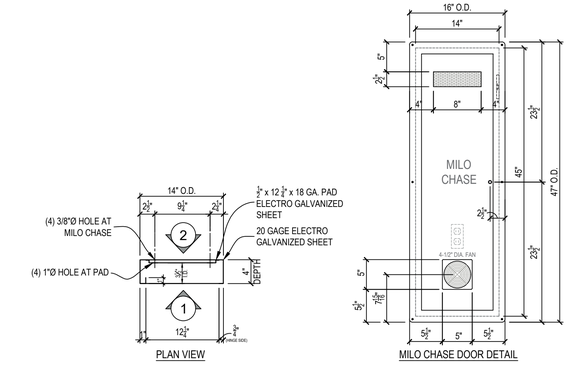
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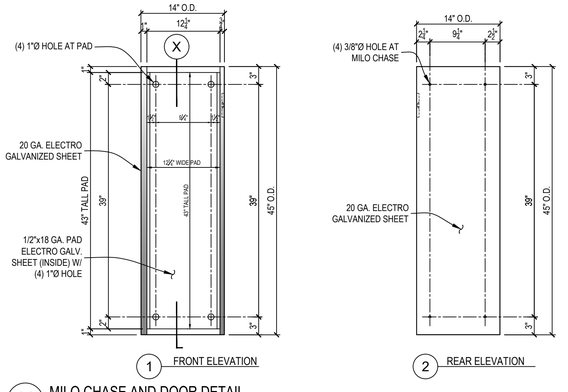
Project No. SRI22103 | Scale AS NOTED | Sheet No. S1 Sheet 7 of 8
Drawing No. 22-103 Bryant PD | Rev. -

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Login: Vince Parin

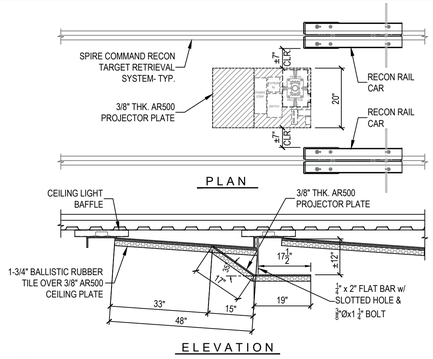


11 INTERIOR SECTION VIEW AT TARGET
SCALE : N.T.S.

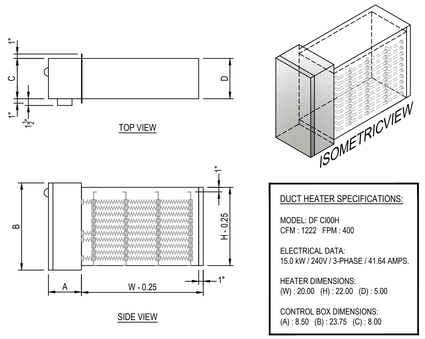




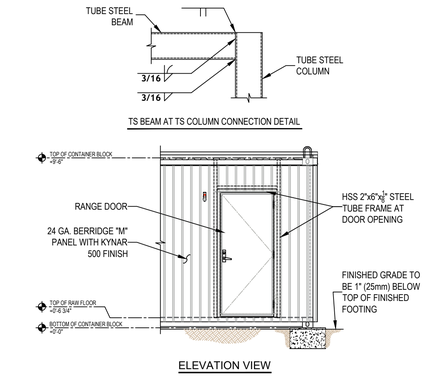
12 MILO CHASE AND DOOR DETAIL
SCALE : N.T.S.

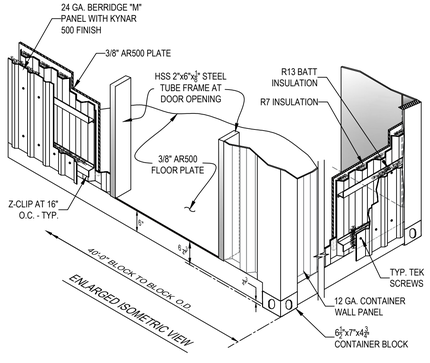


8 PROJECTOR PLATE DETAIL
SCALE : N.T.S.

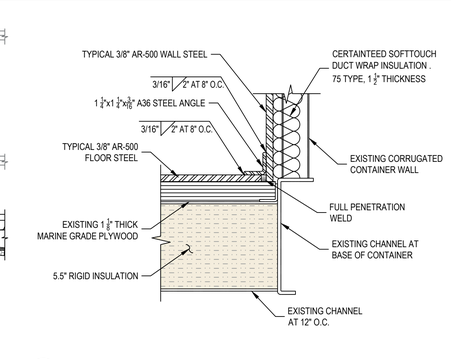


9 IN LINE DUCT HEATER (MODEL DF CI00H)
SCALE : N.T.S.

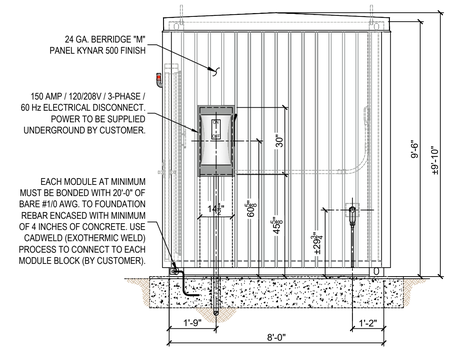




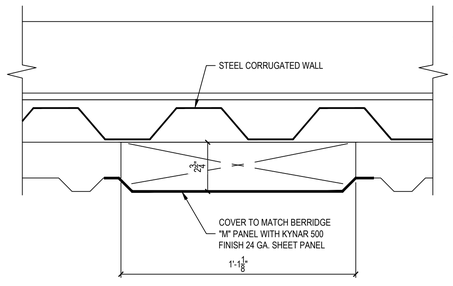
10 MODULE DETAIL AT DOOR OPENING
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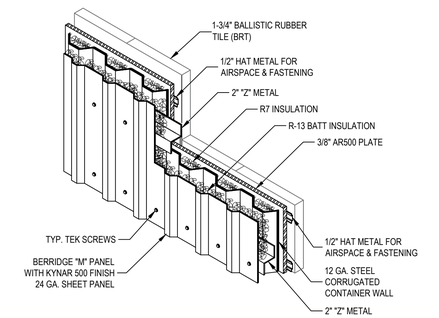
4 FLOOR PLATE AT WALL PLATE DETAIL
SCALE : N.T.S.



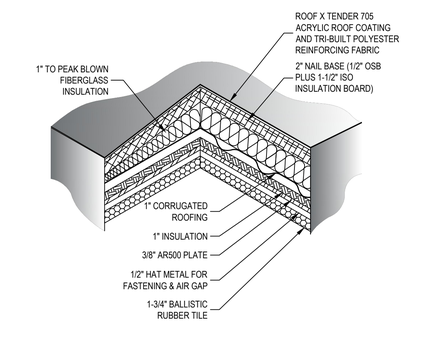
5 GROUNDING DETAIL
SCALE : N.T.S.



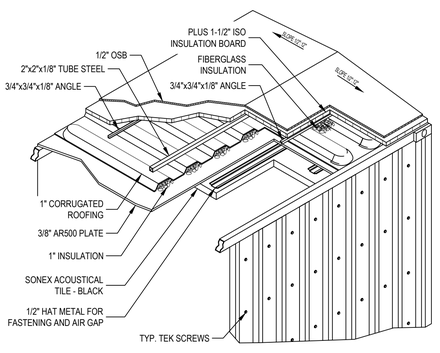
6 TYPICAL ELECTRICAL CHASE AT THE DISCONNECT
SCALE : N.T.S.



1 SIDE WALL SECTION DETAIL
SCALE : N.T.S.



2 ROOF SECTION DETAIL
SCALE : N.T.S.



3 ROOF SECTION AT BULLET TRAPS
SCALE : N.T.S.

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..

7 WARNING SIGN
SCALE : N.T.S.

FOR CONSTRUCTION

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CUSTOMER SIGN OFF:

DATE: _____

SIGNATURE: _____

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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
DETAILS

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

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

Project No.	Scale	Sheet No.
SRI22103	AS NOTED	D1 Sheet 8 of 8

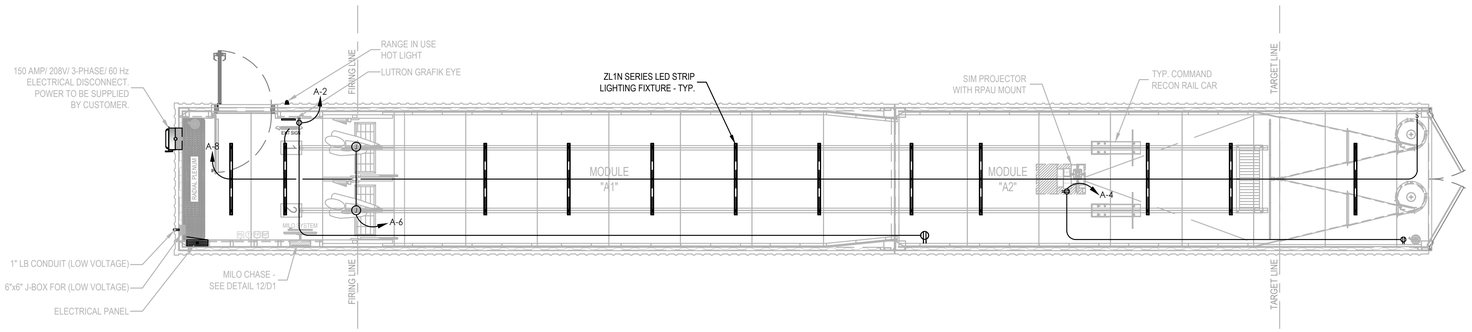
Drawing No. 22-103 Bryant PD
Rev. -

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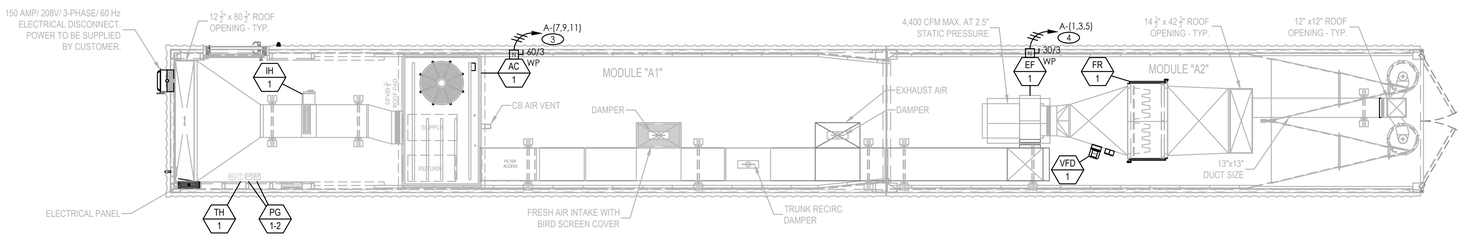
LIGHTING FIXTURE SCHEDULE								
QTY.	SYMBOL	BRAND	MODEL NO.	VOLTAGE	REQUIRED LAMPS NUM.	REQUIRED LAMPS TYPE	MOUNTING	REMARKS
12	ELEV. / PLAN	LITHONIA	ZL1N	MVOLT 120V - 277V	1	0-10V DIMMING STD. NPP16D NLIGHT SWITCHING/ DIMMING MODULE (3,500 LUMENS)	CEILING	LED STRIPLIGHT, SNAP ON FROSTED, DIFFUSE
1		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
T	THERMOSTAT
FP	FILTER PRESSURE
RP	RANGE PRESSURE
PS	PRESSURE SENSOR
	FIRE EXTINGUISHER (WALL MOUNTED)
	BALLISTIC RUBBER TILE
	SONEX SOUND TILE
	POLISHED ALUMINUM DIAMOND TREAD PLATE
	3/8" AR-500 STEEL PLATE



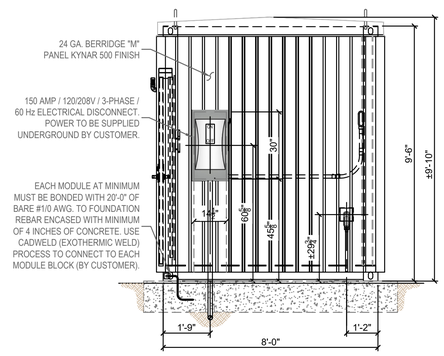
1 PLAN VIEW - ELECTRICAL LAYOUT

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



2 ROOF VIEW - ELECTRICAL LAYOUT

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



GROUNDING DETAIL

SCALE: NTS

PANEL: A — VOLTAGE: 208 / 120 3Ø 4W — CIRCUIT CODE: blank or — N: NON-CONTINUOUS; L: LONG-CONTINUOUS; R: DEMANDABLE RECEPTACLES

DATE: 3/3/22 4:37 PM — BUS: 200A — MAINS: L.O. — LOCATION: CONTAINER — K: KITCHEN NO. OF EQUIPMENT: 0

JOB: 22.0057 — AIC RATING: 22,000 — MOUNTING: SURFACE

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION DESCRIPTION	(NOTE)	M	R	L	ØA	ØB	ØC	A	B	C	ØA	ØB	ØC	L	R	M	(NOTE)	LOAD DESIGNATION DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	30			EF-1			1		1500			•			360			2				GEN RECEP.	20	1		2
3				--						1500		•				360		2				MODULE RECEP.	20	1		4
5			3	--							1500	•					400			2		MOTOR CONTROL	20	1		6
7	60			AC-1			1		4560			•			405			12				LIGHTS	20	1	L	8
9				--						4560		•				-						SPACE				10
11			3	--							4560	•					-					SPACE				12
13				SPACE					-			•			-							SPACE				14
15				SPACE						-		•				-						SPACE				16
17				SPACE							-	•					-					SPACE				18
19									-			•			-											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

18 CKT PANEL

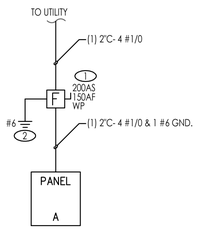
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CONNECTED VA (CODE N)	19300
CONNECTED VA (CODE L)	405
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	19.7
PANEL DEMAND KVA	19.8
PANEL DEMAND AMPS	55.0
HIGH Ø AMPS w/ DEMAND	57.7

NOTICE

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

SHEET NOTES

1. PROVIDE SERVICE RATED FUSED DISCONNECT AS SHOWN.
2. GROUND PER NEC 250.52(A)(5).
3. (1) 1 1/4"C - 3 #4 & 1 #8 GND.
4. WIRE THROUGH VFD PER MANUFACTURER'S RECOMMENDATIONS.



SINGLE LINE DIAGRAM

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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 customers responsibility to maintain a balanced air system.
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PROFESSIONAL ENGINEER - STATE OF NEVADA
CHRISTOPHER J. LOVETT
Exp: 12/31/23
ELECTRICAL
No. 17124
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: _____

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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
ELECTRICAL LAYOUT
(PLAN & SECTION VIEW)

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

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 — Sheet 4 of 8

Drawing No. 22-103 Bryant PD — Rev. -

(R)EVOLUTION ENGINEERING®
3590 E. PATRICK LANE
LAS VEGAS, NV 89120
702-514-3361
revolutionmep.com
RE#LV22.0057

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	BWI	BELT	5.0	208	3	60	1,755	357.98	DAYTON 7H171	PROVIDE WITH VFD

ROOF TOP UNIT SCHEDULE

UNIT NO.	SERVICE	FAN DATA					ELECTRICAL DATA				COOLING COIL SECTION				GAS HEAT SECTION				COMPRESSOR SECTION			ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS
		FAN TYPE	CFM	ESP	BHP	HP	VOLTS	PH	MROPD (A)	MCA (A)	CAPACITY Btu/hr	ENT.TEMP (F) D/B	ENT.TEMP (F) W/B	AMBIENT DB (F)	CAPACITY INPUT MBH	CAPACITY OUTPUT MBH	EAT (F)	LEA (ARH)	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-STAT	2 STAGE	R.L.-L.R 19.6/136.0	R410	1058 NET (1156 SHIPPING)	TRANE YSC012KSELA	NONE
IH-1	FIRING RANGE	-	1,222	-	-	-	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.20 NET	WATTCO DFCI00H	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

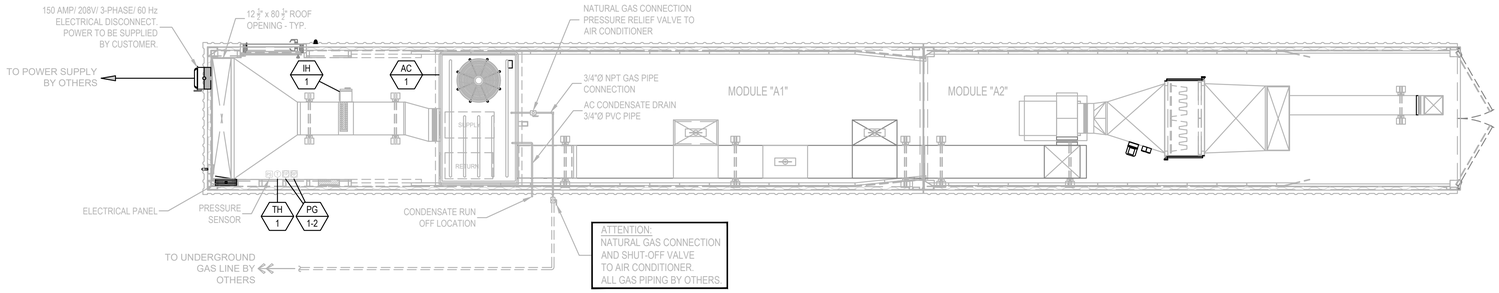
AC 1	AC = 10 TON GAS PACKAGE A/C UNIT "TRANE" INPUT: 150,000 BTU / OUTPUT: 120,000 BTU 208-230V / 60 Hz / 3 PHASE MODEL # YSC120H3ELA
EF 1	EF = ROOF/BRACKET MOUNTED EXHAUST FAN "DAYTON" MODEL #7H171 5.0 H.P. 208V / 60 HZ / 3 PHASE 12.50 AMP F.L.A. NEMA 3R
FR 1	99.97% 0.3 MICRON HEPA FILTER RACK WITH (4) - 24"x24"x12" SUPERFLO-V FILTERS AND (4) - 24"x24"x2" PLEATED PRE-FILTERS
VFD 1	WEG VARIABLE FREQUENCY DRIVE. 5 MAX. HP, 3 INPUT PHASE AC 240VAC INPUT VOLTAGE, 16 AMPS. MAX. OUTPUT MODEL NO. CFW080160TDN4A1Z
IH 1	15.0 kW / 41.64 AMP / 208V / 3-PHASE / 1,222 CFM / 400 FPM DUCT HEATER "WATTCO" MODEL # DF CI00H
PG 1-2	(2) - DWYER MAGNEHELIC 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. TRO24T4XY21

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.
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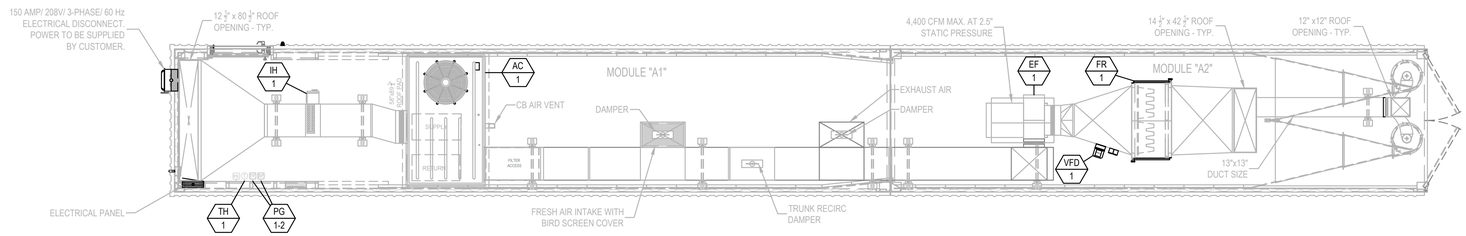
NOTES:

1. POWER BY CUSTOMER.
2. 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"

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DATE: _____

SIGNATURE: _____

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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. shop 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

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BRIAN G. PATALON
Exp: 12/31/23
MECHANICAL
No. 16499
03/03/2022

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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
H.V.A.C. LAYOUT
UTILITY LAYOUT
(PLAN VIEW)

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

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. -

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LAS VEGAS, NV 89120
702-514-3361
revolutionmep.com

REVLV22.0057

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EXHAUST FAN SCHEDULE

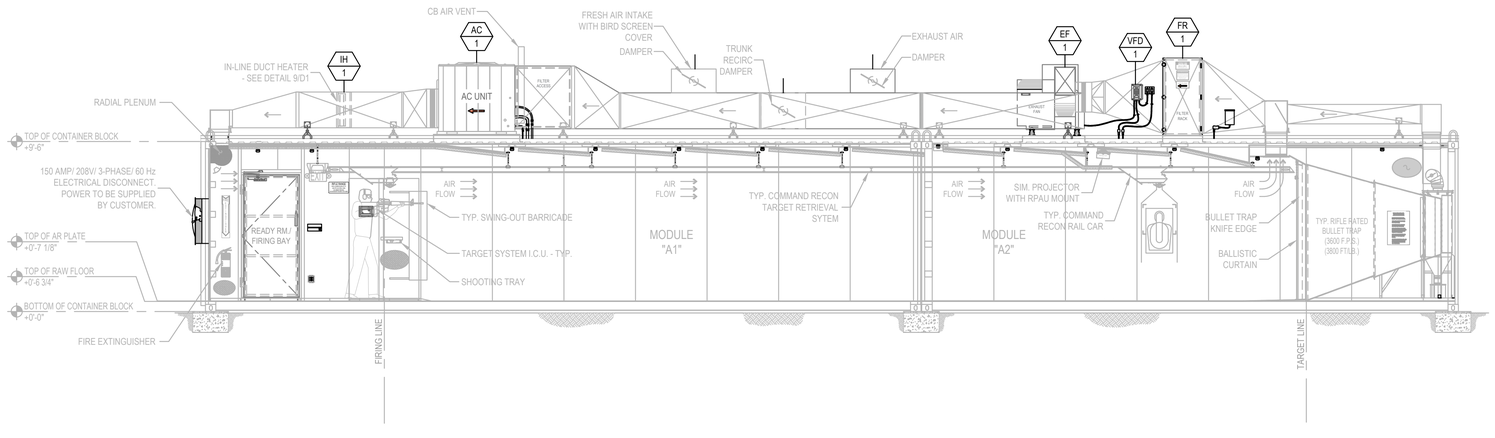
UNIT NO.	SERVICE	LOCATION	FAN DATA					MOTOR / ELECTRICAL DATA					ESTIMATED WEIGHT (Lbs)	BASIS OF DESIGN	REMARKS
			CFM	S.P. IN WG	RPM	FAN TYPE	DRIVE	HP	VOLTS	PH	HZ	RPM			
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		FAN TYPE	CFM	ESP	BHP	HP	VOLTS	PH	MROPD (A)	MCA (A)	CAPACITY Btu/hr	ENT.TEMP (F) D/B	ENT.TEMP (F) W/B	AMBIENT DB (F)	CAPACITY INPUT MBH	CAPACITY OUTPUT MBH	EAT (F)	LEA (ARH)	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-STAT	2 STAGE	R.L.-L.R 19.6/136.0	R410	1058 NET (1156 SHIPPING)	TRANE YSC0120H3ELA	NONE
IH-1	FIRING RANGE	-	1,222	-	-	-	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.20 NET	WATTCO DFCI00H	NONE

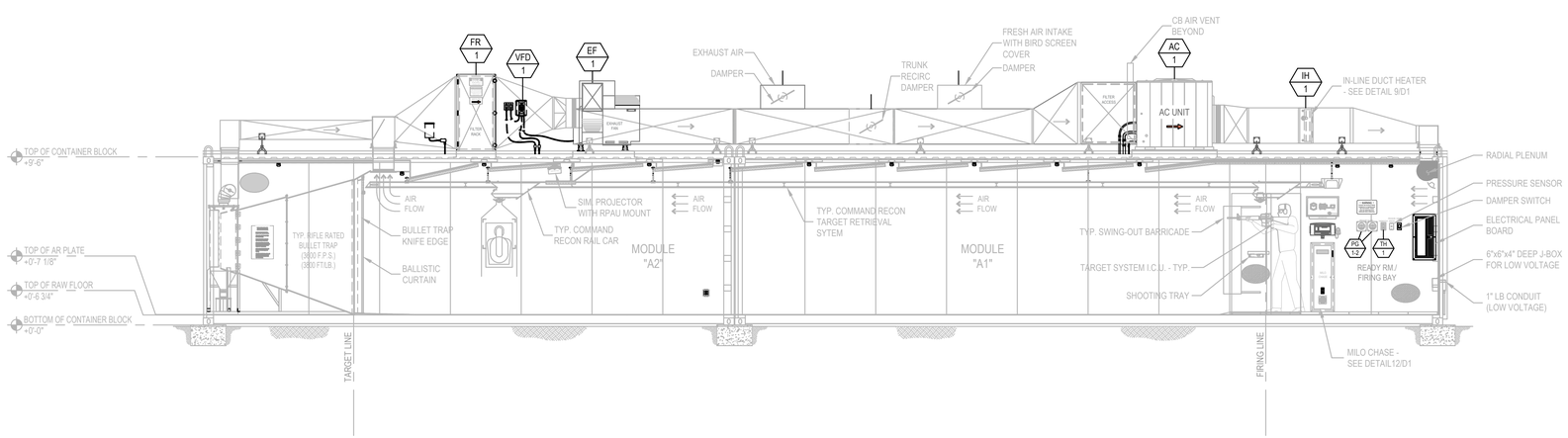
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1 LONGITUDINAL SECTION - H.V.A.C. LAYOUT

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



2 LONGITUDINAL SECTION - H.V.A.C. LAYOUT

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

H.V.A.C. REFERENCE KEYNOTES

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TH 1	NEPTRONIC VAV THERMOSTAT CONTROLLER - 22 TO 28Vac 50/60 Hz POWER SUPPLY 32°F TO 122°F OPERATING TEMPERATURE MODEL NO. TRO24T4XY21

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03/03/2022

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CUSTOMER SIGN OFF:

DATE: _____

SIGNATURE: _____

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

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

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

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

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

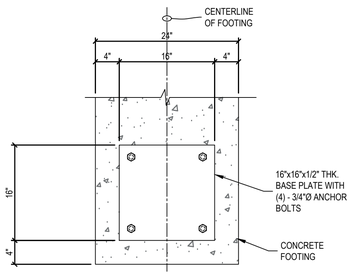
Project No.	Scale	Sheet No.
SRI22103	AS NOTED	M2 Sheet 6 of 8

Drawing No. 22-103 Bryant PD — Rev. -

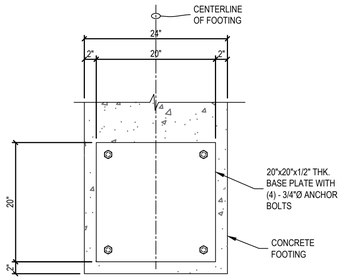
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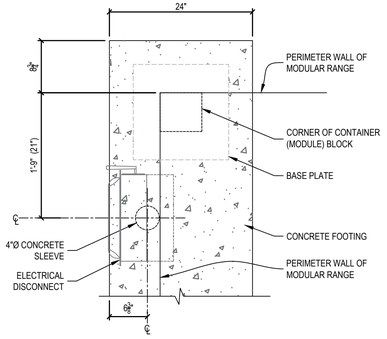
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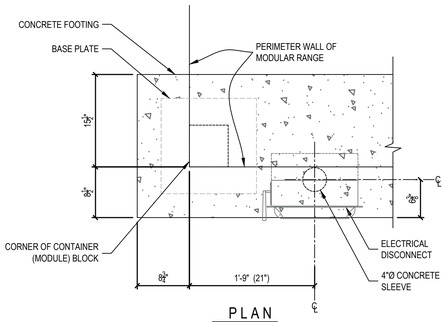
BASE PLATE PLAN



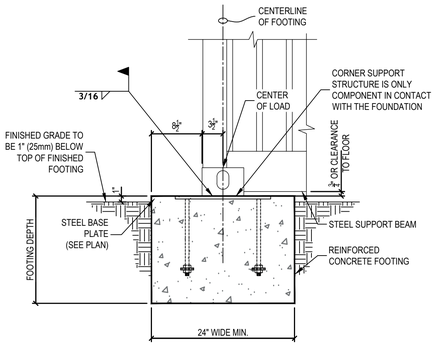
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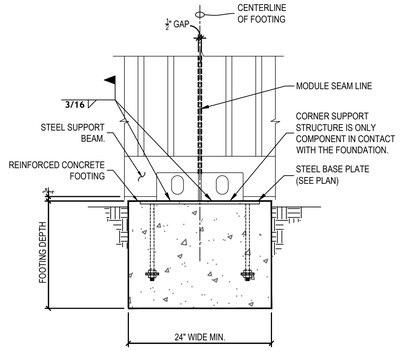


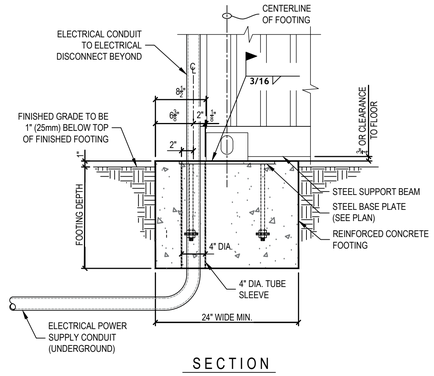
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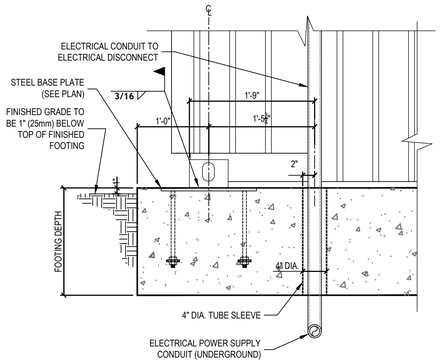
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SECTION



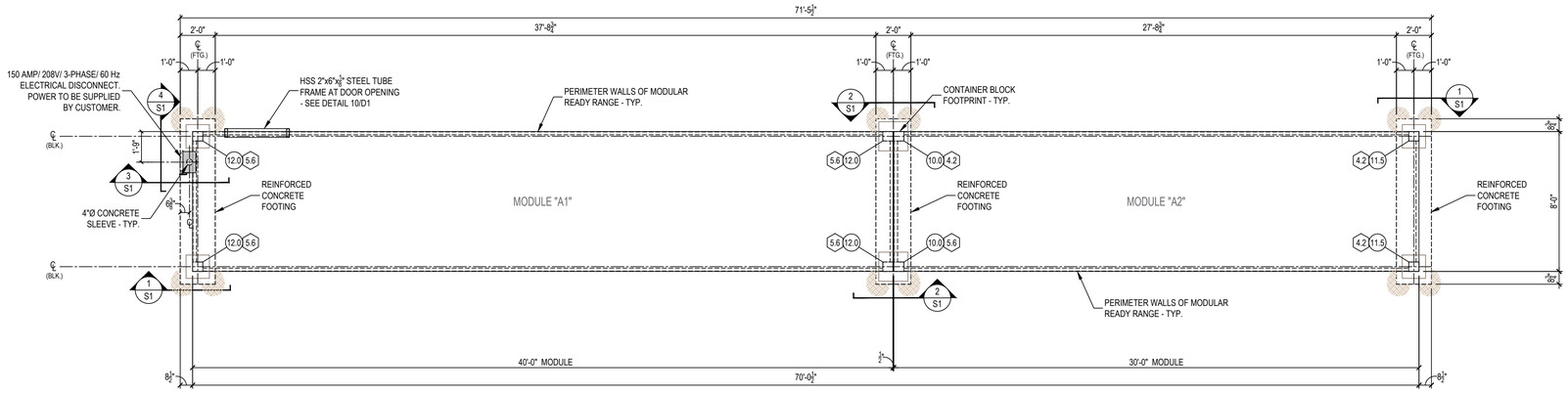
SECTION

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"

NORTH

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:

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

GROUNDING NOTES:

Lightning protection system to be designed per (NFPA 780) requirements and be provided and installed by others. A (#4/0 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 ft. bare #4 AWG CU conductor at bottom of footing) or 8' x 5/8" diameter copper ground rod. The lighting protection system shall be bonded to the grounding system per NEC 250.106 requirements. A 4/0 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.

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.

PRELIMINARY NOT FOR CONSTRUCTION PER PENDING APPROVAL

PLANS MUST BE APPROVED BEFORE MANUFACTURING STARTS.

CUSTOMER SIGN OFF:

DATE: _____

SIGNATURE: _____

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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. shop 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
NOTICE TO ALL SHOOTING OWNERS, MANAGERS & OPERATORS:
Shooting Range Industries, LLC (SRI) is no 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 structures(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/their 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 customers 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
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
FOOTING LAYOUT
FOOTING DETAILS
LOAD REACTIONS/CALCS

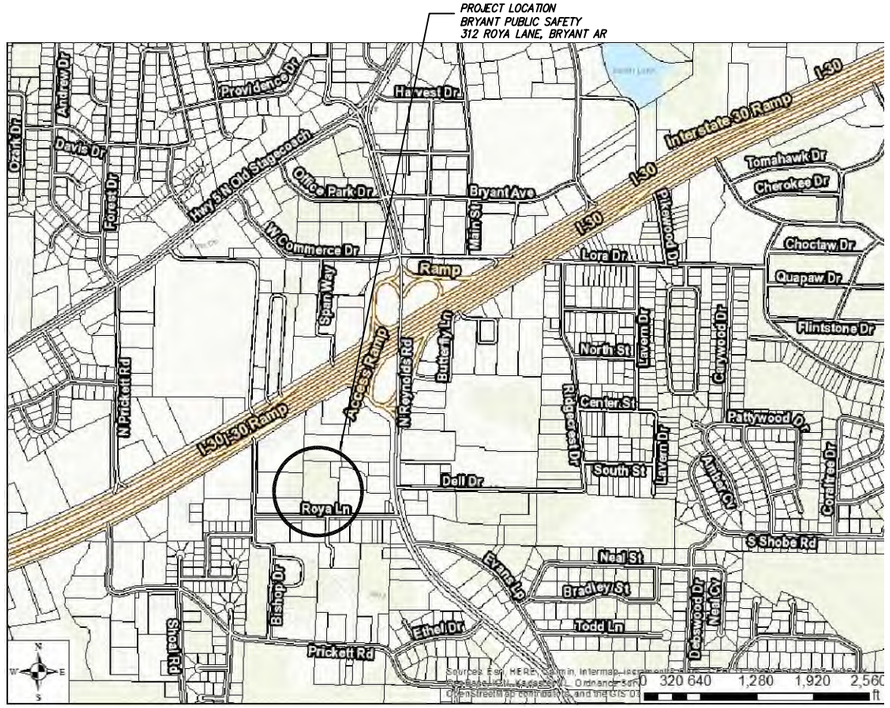
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1			

Drawn	Date	Checked	Date	Approved	Date
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Project No.	Scale	Sheet No.
SRI22100	AS NOTED	S1 Sheet 7 of 8

Drawing No. 22-100 Bryant PD — Rev. -

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Login: Vince Parin



VICINITY MAP – BRYANT, ARKANSAS



SALINE COUNTY, ARKANSAS

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

APPROVED BY:

TITLE	SIGNATURE	DATE
TITLE	SIGNATURE	DATE
TITLE	SIGNATURE	DATE

DESIGNED BY: BRYANT PD

DRAWN BY: BEC

CHECKED BY:

REV	DESCRIPTION	BY	DATE
A	DRC SUBMITTAL	BPD	11/23/21

NORTH:

SCALE: AS INDICATED

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

BRYANT POLICE DEPARTMENT
MODULAR SHOOTING RANGE
TITLE SHEET

SUBMITTAL DATE: 11/23/21

WORK ORDER NO.:

SHEET NO.: G1 OF G1

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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, IT'S 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 STABLIZED 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. MININUM 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.

APPROVED BY:

TITLE	SIGNATURE	DATE

DESIGNED BY: BRYANT PD
DRAWN BY: BEC
CHECKED BY:

REV	DESCRIPTION	BY	DATE
A	DRC SUBMITTAL	BPD	11/23/21

NORTH:

SCALE: N/A

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

BRYANT POLICE DEPARTMENT
MODULAR SHOOTING RANGE
GENERAL NOTES

SUBMITTAL DATE: 11/23/21
WORK ORDER NO.:
SHEET NO.: G2.0 OF G2.0

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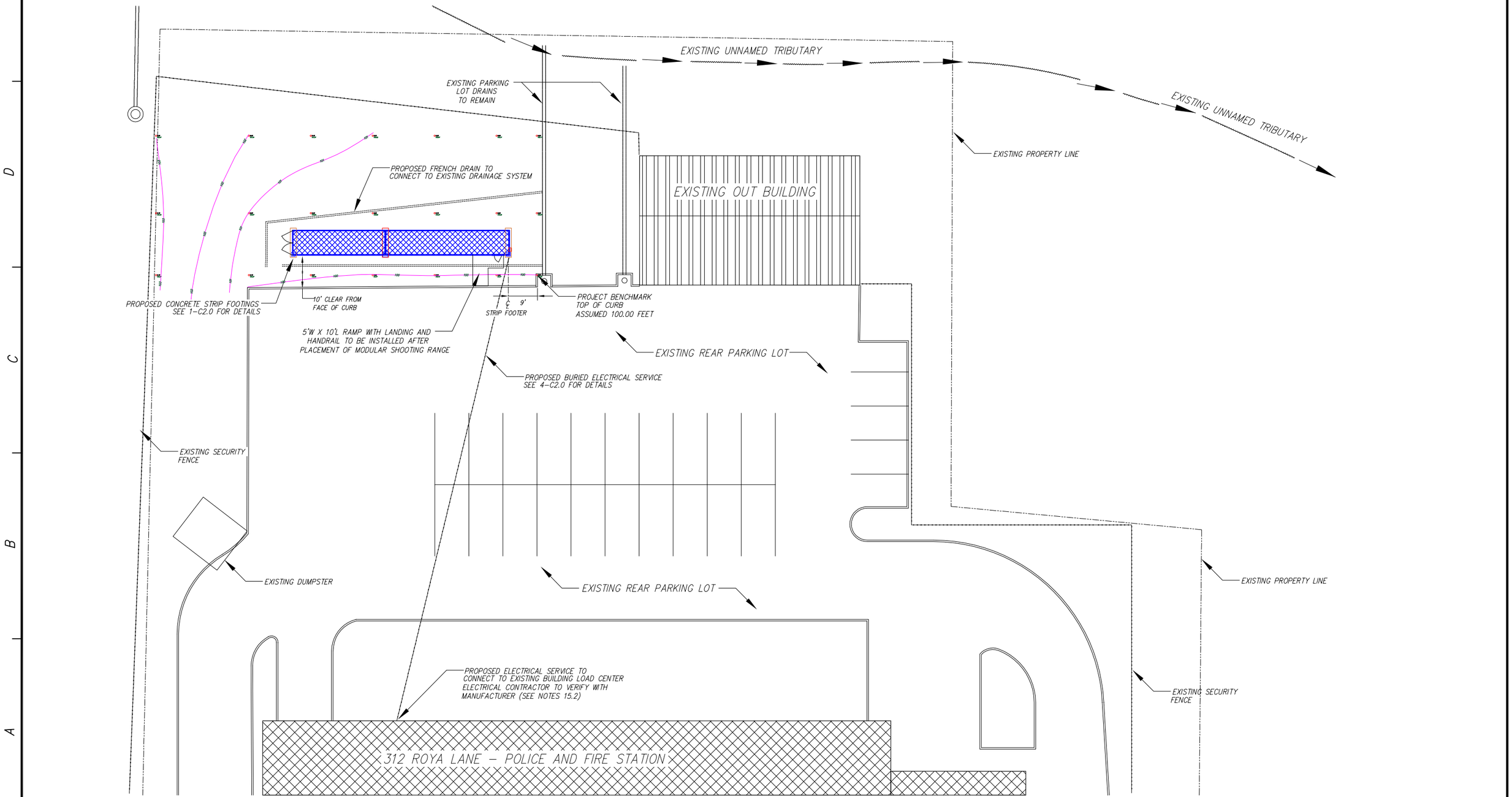
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TITLE	SIGNATURE	DATE	CHECKED BY:							STREET: ROYA LANE
TITLE	SIGNATURE	DATE								PHONE:
										BRYANT, ARKANSAS 72022

CITY OF BRYANT ARKANSAS Est. 1892

MODULAR SHOOTING RANGE
ENLARGED PLAN &
GENERAL ARRANGEMENT

SUBMITTAL DATE: 11/23/21
WORK ORDER NO.:
SHEET NO.: C1.0 OF C1.0

XXX####XXX.DWG



APPROVED BY:

TITLE	SIGNATURE	DATE
TITLE	SIGNATURE	DATE
TITLE	SIGNATURE	DATE

DESIGNED BY: BRYANT PD

DRAWN BY: BEC

CHECKED BY:

REV	DESCRIPTION	BY	DATE
A	DRC SUBMITTAL	BPD	11/23/21

NORTH:

SCALE: 0' 15' 30' GRAPHIC SCALE

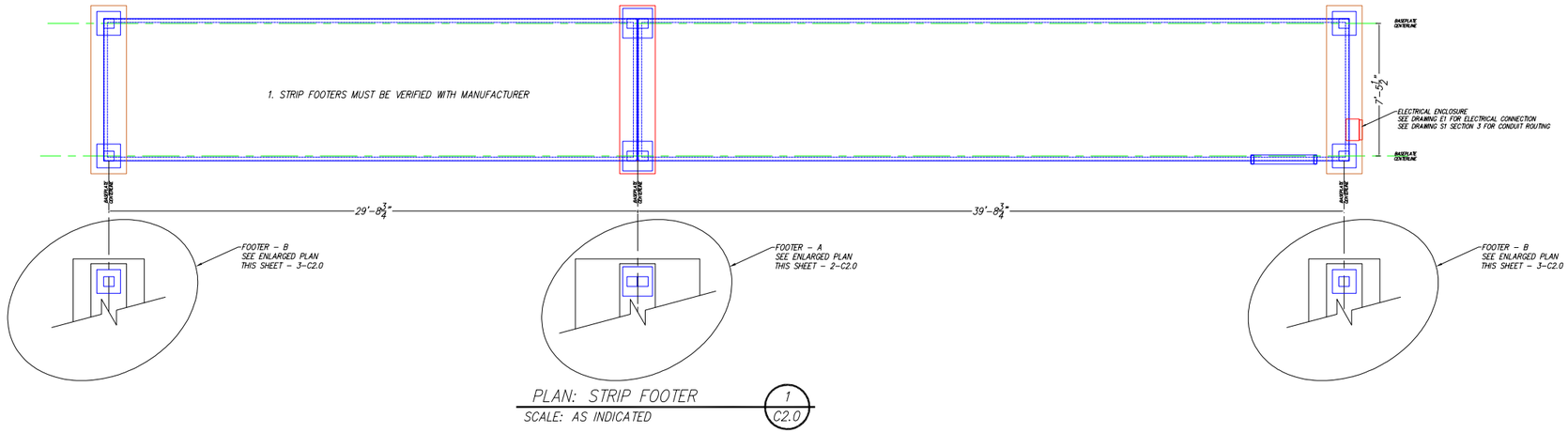
NAME: BRYANT PUBLIC SAFETY BUILDING
ADDRESS: 312
STREET: ROYA LANE
PHONE:
BRYANT, ARKANSAS
72022

CITY OF BRYANT ARKANSAS Est. 1892

MODULAR SHOOTING RANGE
ENLARGED PLAN &
GENERAL ARRANGEMENT

SUBMITTAL DATE: 11/23/21
WORK ORDER NO.:
SHEET NO.: C1.1 OF C1.1

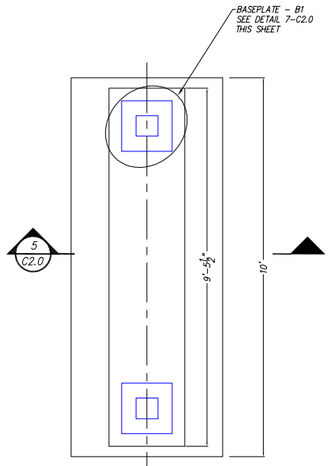
XXX####XXX.DWG



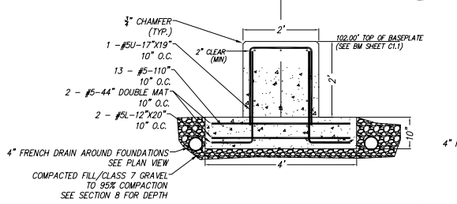
PLAN: STRIP FOOTER (1 / C2.0)
SCALE: AS INDICATED

NOTES:

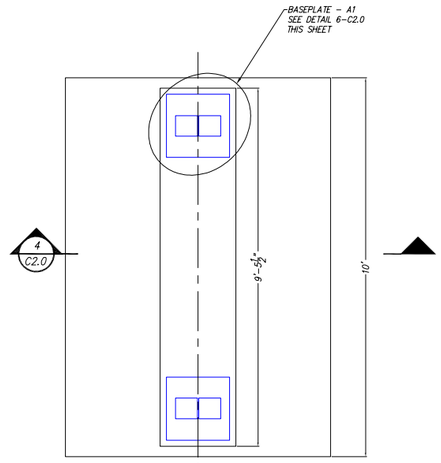
1. STRIP FOOTERS MUST BE VERIFIED WITH MANUFACTURER SEE GENERAL NOTE 15.1
2. LOCATIONS OF FOOTINGS MUST BE UNDERCUT AS INDICATED AND REPLACED WITH CRUSHED STONE (57) IN LIFTS OF 12 INCHES AND EACH LIFT COMPACTED TO 95% DENSITY.
3. ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH CRSI REQUIREMENTS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



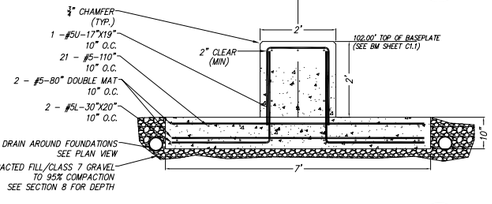
PLAN: FOOTER – B (3 / C2.0) REQD: 2
SCALE: 1" = 2'–0"



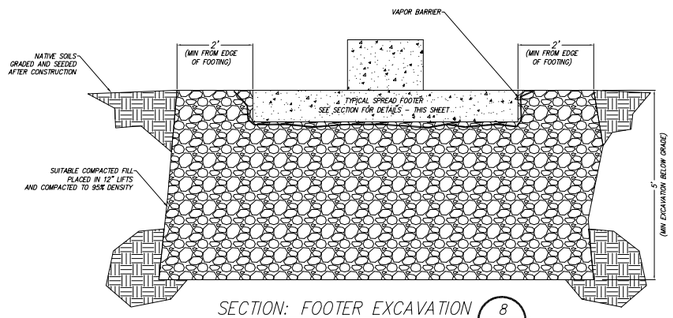
SECTION: FOOTER – B (5 / C2.0) REQD: 2
SCALE: 1" = 2'–0"



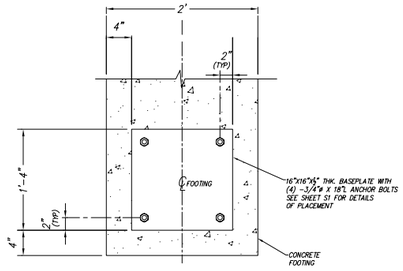
PLAN: FOOTER – A (2 / C2.0) REQD: 1
SCALE: 1" = 2'–0"



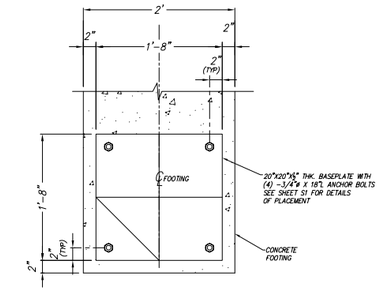
SECTION: FOOTER – A (4 / C2.0) REQD: 1
SCALE: 1" = 2'–0"



SECTION: FOOTER EXCAVATION (8 / C2.0) REQD: 1
SCALE: 1" = 2'–0"



DETAIL: BASEPLATE A–1 (6 / C2.0) REQD: 4
SCALE: 1" = 1'–0"



DETAIL: BASEPLATE A–1 (7 / C2.0) REQD: 2
SCALE: 1" = 1'–0"

APPROVED BY:			
TITLE	SIGNATURE	DATE	
TITLE	SIGNATURE	DATE	
TITLE	SIGNATURE	DATE	

DESIGNED BY: BPW
DRAWN BY: BPW
CHECKED BY: BPW

REV	DESCRIPTION	BY	DATE
A	DRC SUBMITTAL	BPD	11/23/21

NORTH: N

SCALE: 0' 4' 8' GRAPHIC SCALE

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

CITY OF BRYANT Est. 1892 ARKANSAS

MODULAR SHOOTING RANGE
FOUNDATION DETAILS
GENERAL ARRANGEMENT

SUBMITTAL DATE: 11/23/21
WORK ORDER NO.:
SHEET NO.: C2.0 OF C2.0

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