

State of Maine Department of Transportation



Truck Storage Garage Sherman, Maine

Aroostook County

WIN # 025240.00

Specifications:

Design: International Building Code 2015
ACI 318-08

Design Loading:

Live Load Slab-on-grade 400 psf
uniform load
Ground Snow Load 100 PSF
Wind Load 115 MPH

Materials:

Reinforcing Steel ASTM A 615, grade 60,
plan and epoxy coated

INDEX OF SHEETS	
Cover Sheet	
Civil	
C100	Existing Site Plan
C101	Proposed Grading and Drainage Plan - Phase 1
C102	Proposed Grading and Drainage Plan - Phase 2
C200	Site Details
C300	Erosion Control Details
Architecture	
R.1	Code Analysis
R.2	Code Review Floor Plan
A1.1	Proposed Floor Plan
A1.2	Proposed Roof Plan
A2.1	Proposed South and East Elevations
A2.2	Proposed North and West Elevations
A3.1	Building Sections
A4.1	Details
A4.2	Details
A9.1	Door Schedule, Notes and Types
Structural	
S1.0	Structural Notes
S2.0	Foundation Plan
S3.0	Foundation Details and Sections
Mechanical	
M1.1	Mechanical / Plumbing Plan
M2.1	Mechanical Schedules, Details and Legend
Electrical	
E1.1	Lighting Plan
E2.1	Power Plan
E3.1	Electrical Notes, Legend & Details
E3.2	One-line Diagram and Panel Schedule



MDOT Truck Storage Garage

12 Qualey Drive, Sherman, Maine
Locus Map - not to scale

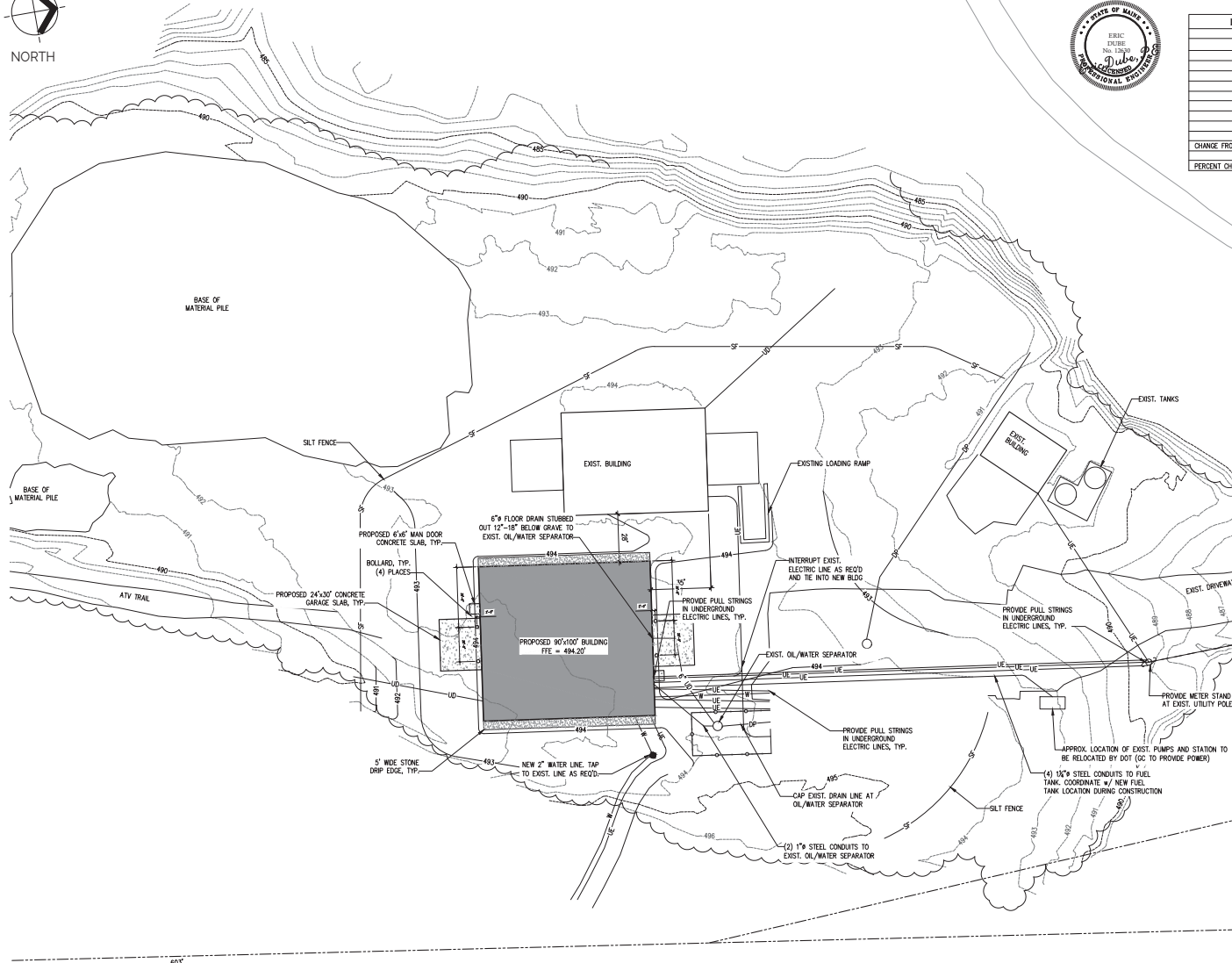


Project Location	12 Qualey Road, Sherman off exit 264 on Rt 95
Program Area	Maintenance and Operations
Scope of Work	9,000 sf Truck storage garage and site work

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	COMMISSIONER	DATE
		<i>[Signature]</i>	1-16-22
		CHIEF ENGINEER	1-13-2022
 TRILLIUM ENGINEERING GROUP <small>100 MANCHESTER SQUARE YAKKOUTH, ME 04963</small>			
David Matero Architecture <small>41 Cedar Hill Bath, Maine 04502 603.882.4878</small>			
 BENNETT ENGINEERING <small>100 WINDY HILL ROAD OROONOK, ME 04468</small>			
DATE	BY	ME.	DATE
1/16/21	DSM	PE NUMBER	2020.01.03
DESIGN/DETAIL	CHECKED/REVIEW	REVISION 1	REVISION 2
			FIELD CHANGES
Cover Sheet		Issued for Bid	
SHEET NUMBER			
1			



IMPERVIOUS AREA TABLE		
TYPE OF COVER	EXISTING IMP. AREA (SF)	PROPOSED IMP. AREA (SF)
BUILDING	13,963	23,592
PAVEMENT/GRAVEL	27,895	27,266
MATERIAL PILES	41,592	41,592
TOTAL	83,450	92,450
CHANGE FROM EXISTING (+/-)		9,000
PERCENT CHANGE (+/-)		1.12%



STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Ouley Drive, Sherman, Maine
 WIN 05240.00

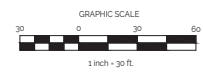
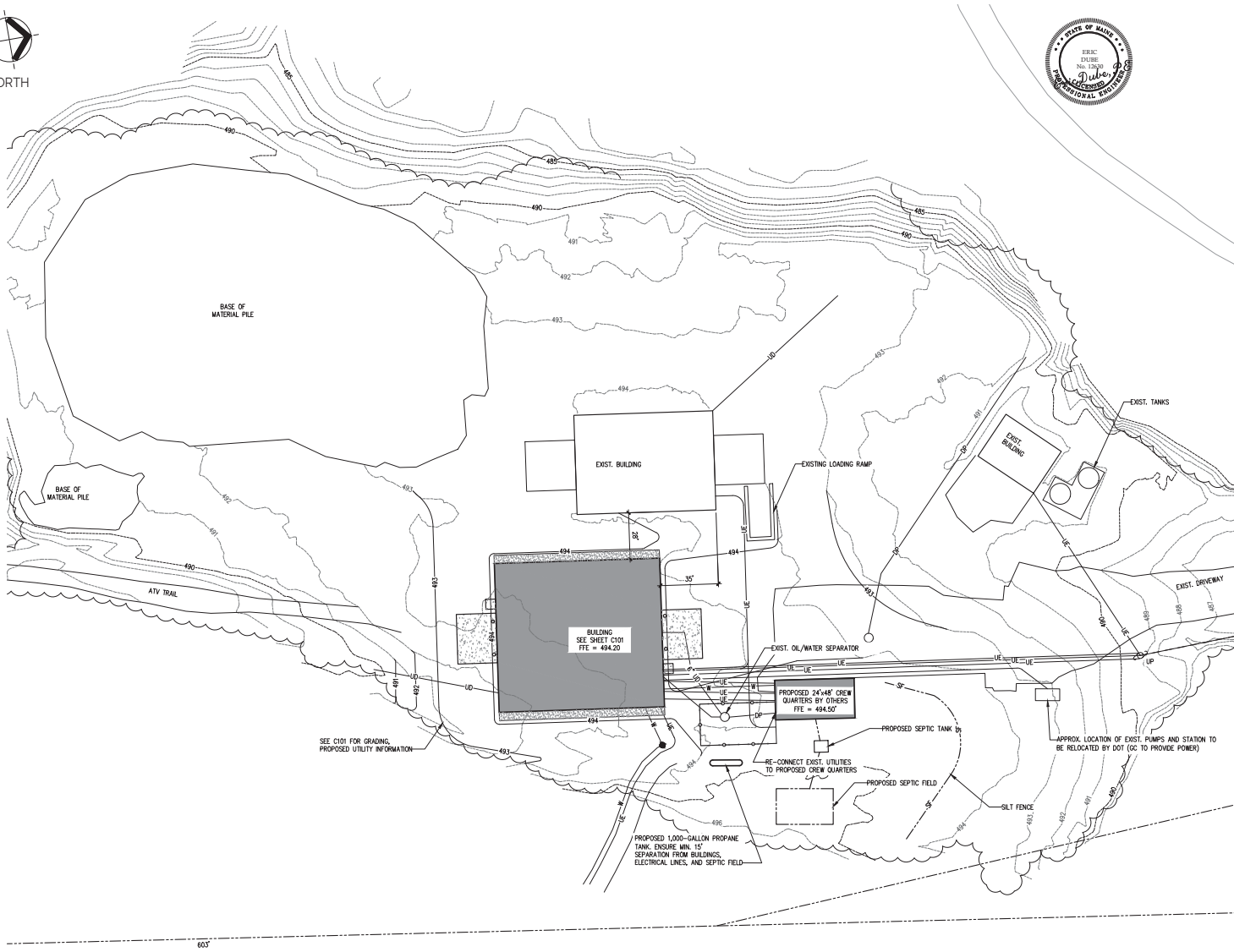
TRILLIUM
 ENGINEERING GROUP
 189 MAIN STREET SUITE 200
 YARMOUTH ME 04096
 David Matero
 P.E. No. 12974
 Architecture

BENNETT
 ENGINEERING
 1000 BROADWAY
 PORTLAND, ME 04102

DATE	BY	DESIGN/ISSUED FOR BLD	ISSUED FOR BLD	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
03-28-20	DL						
03-28-20	ED						

MDOT SHERMAN
 PROPOSED GRADING AND
 DRAINAGE PLAN - PHASE 1

SHEET NUMBER
C101



PREPARED FOR:
STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Ouelley Drive, Sherman, Maine
WIN 025240.00

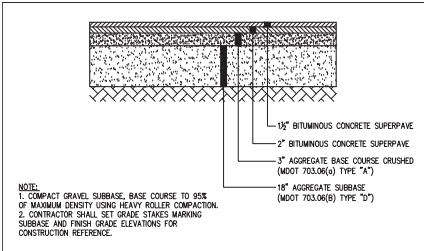
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MECHANICAL • ELECTRICAL
CIVIL/HAZARDOUS

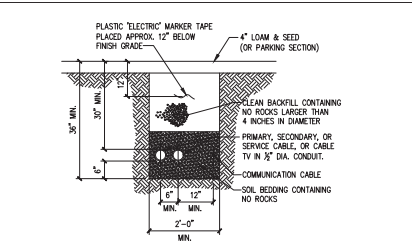
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ISSUED FOR BID	03-08-20	DL	03-08-20			
REVISION 1						
REVISION 2						
REVISION 3						
FIELD CHANGES						

MDOT SHERMAN
PROPOSED GRADING AND
DRAINAGE PLAN - PHASE 2

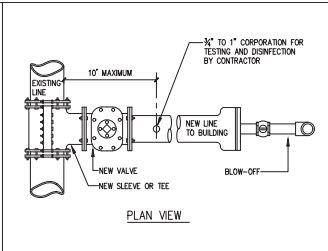
SHEET NUMBER
C102



TYPICAL PARKING LOT SECTION



TYPICAL WIRE TRENCH DETAIL

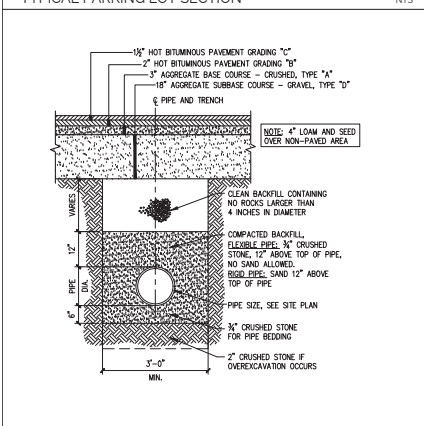


TYPICAL WATER LINE CONNECTION DETAIL

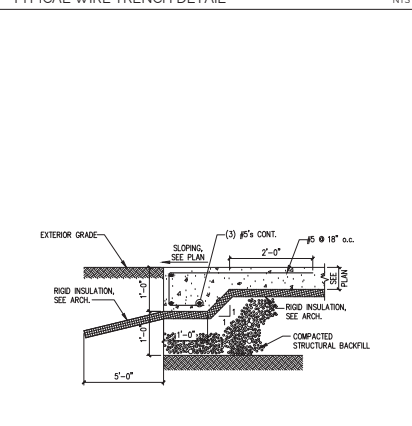
PROCEDURES:
 1. NEW VALVE TO REMAIN SHUT AND ONLY OPERATED BY DISTRICT FOR FLUSHING, TESTING, DISINFECTING, ETC.
 2. THE TESTING CORPORATION LOCATION MUST BE ACCESSIBLE BY:
 A. LEAVING THE EXCAVATION OPEN DURING TESTING - DISINFECTION PERIOD, OR BY:
 B. INSTALLING A "JUMPER LINE" TO THE GROUND SURFACE WITH THE CORPORATION BEING AN ANGLE VALVE IN A VALVE BOX, OR BY USING A SERVICE BOX AND ROD. AFTER COMPLETION OF THE HYDROSTATIC TEST AND THE DISINFECTION PROCEDURE:
 (1) THE ANGLE VALVE IS SHUT,
 (2) THE "JUMPER LINE" IS CUT OFF BELOW THE GROUND, AND
 (3) THE BOX IS PULLED.



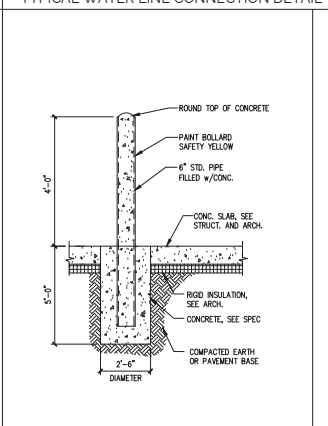
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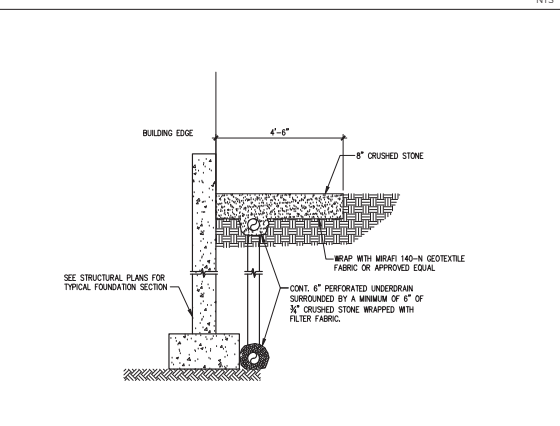
TYPICAL UTILITY TRENCH DETAIL



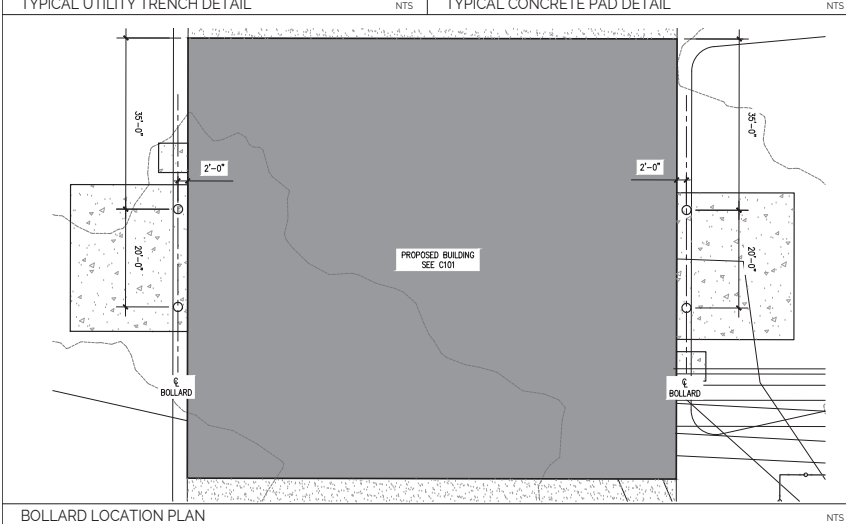
TYPICAL CONCRETE PAD DETAIL



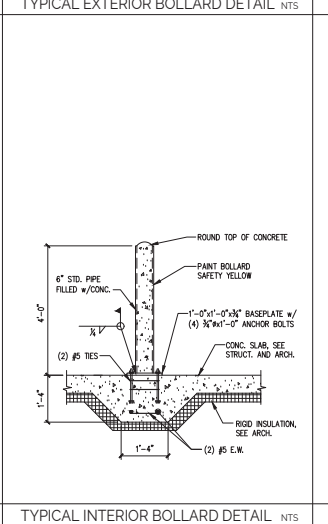
TYPICAL EXTERIOR BOLLARD DETAIL



STONE DRIP EDGE SECTION



BOLLARD LOCATION PLAN



TYPICAL INTERIOR BOLLARD DETAIL



David Matero
 189 MAIN STREET SUITE 200
 YARMOUTH ME 04096
 Architecture



DATE	03-20-20	ME			
BY	DL	ED	PE NUMBER	NOISE LET	DATE
DESIGN DETAIL	ISSUED FOR BID	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

MDOT SHERMAN
 SHERMAN TRUCK STORAGE GARAGE
 SHEET NUMBER
 C200

Code Analysis - MDOT Sherman Maintenance Building

12 Ordway Drive, Sherman, ME
 New Metal Fabricated one story stand alone building totaling 9,000 sf to be used as a Fleet Truck maintenance facility for the Maine Department of Transportation. The building will have overhead doors and personnel entry door on opposite sides for vehicles to drive through and for employees to enter and exit the facility. The building will not be sprinklered per the provided Code Review.

International Building Code 2015 - IBC Review

Chapter 3 Use and Occupancy Classification	
Table 301.1 (1) Maximum allowable quantity per control area of hazardous materials posing a physical hazard	Footnote (g) The following shall not be included in determining the maximum allowable quantities: 1. Liquid or gaseous fuel in fuel tanks on vehicles
Section 311.2	S-1 Moderate Hazard Storage Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials listed in Table 307.1(1) (see Section 406.8)

Chapter 5 General Building Heights and Areas

Construction Type	IB / Unprotected, Not Sprinklered (NS)
Table 504.3 Height limitations	S-1 (NS) 5' New single story at peak 28'-4" - OK
Table 504.4 Number of Stories	S-1 2 Stories (NS) Single story only - OK
Table 506.2 Allowable Area Factor	S-1 17,500 sf (NS) Single story total 9,000 sf - OK

Chapter 6 Types of Construction

Table 601 Ratings of Structure Elements	
Primary structural frame	0 Hour / Existing to remain, 0 hr - OK
Exterior bearing walls	0 Hour / Existing to remain, 0 hr - OK
Interior bearing walls	0 Hour / Existing to remain, 0 hr - OK
Exterior nonbearing walls and partitions	0 Hour / Existing to remain, 0 hr - OK
Interior nonbearing walls and partitions	0 Hour / Existing to remain, 0 hr - OK
Floor construction	0 Hour / Existing to remain, 0 hr - OK
Roof construction	0 Hour / Existing to remain, 0 hr - OK
Table 602 Fire Resistance Rating Requirements for Exterior Walls	
Less than 10'	1 Hour
More than 10'	0 Hour

Chapter 7 Fire and Smoke Protection Features

Table 705.8 Max Area of Exterior Wall Openings Based on Fire Separation Distance 0 to 3' (Unprotected, Not Sprinklered)	Not permitted
3' to 5' (UP) (NS)	Not permitted
5' to 10'	10%
10' to 15'	15%
15' to 20'	25%
20' to 25'	45%
25' to 30'	70%
More than 30'	No Limit
Section 711 Horizontal Assemblies	
Section 711.2.3 Supporting Construction	Supporting construction shall be of the same fire-resistive rating as the horizontal separation
Table 716.5 Open Fire Protection Assemblies, Ratings and Markings	
Fire walls, 2 hour	1 1/2 Hour rating
Shaft, 1 hour	1 Hour
Exit enclosures, 1 hour	1 Hour
Corridor walls, 1 hour	20 Minute
Table 716.6 Limiting Size of Wired Glass Panels	
1 and 1 1/2 hours	100 sq in, 33" max ht, 10" max width
3/4 hour	1,296 sq in, 54" max ht, 54" max width
20 minute	Not limited
Section 720.2 Concealed Insulating Installation	Where concealed Flame spread not more than 25 Smoke-developed index not more than 450
Section 719.3 Exposed Insulating Installation	Where exposed Flame spread not more than 25 Smoke-developed index not more than 450
Exception	Cellulose loose-fill (not spray) shall only meet smoke-developed not more than 450

Chapter 8 Interior Finishes

Section 803.1.1 Interior wall and ceiling finish material	
Class A	Flame spread index 0-25; smoke-developed index 0-50
Class B	Flame spread index 26-75; smoke-developed index 0-450
Class C	Flame spread index 76-200; smoke-developed index 0-450
Table 803.1.1 Interior wall and ceiling finish requirements by occupancy	S-1 Moderate Hazard Storage
Exit enclosures and passageways	Class B / Class C
Corridors	Class B / Class C
Rooms and enclosed spaces	Class C / Class C
Section 804.4 Interior floor finish requirements	Interior floor finish when nonsprinklered Not less than Class II and comply with DOCF-1 "pill test"
Section 806 Decorative Materials and Trim	Fabric partitions suspended from the ceiling and not supported from floor Shall meet flame propagation performance criteria of NFPA 701 and Sec 806.2

Chapter 9 Fire Protective Systems - Existing System to remain and not modified

Section 903.2 S-1	Automatic Sprinkler System not required - proposed building is less than 12,000 sf and only a single story - OK
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Chapter 10 Means of Egress

Section 1003.2 Ceiling height	Not less than 7'-6"
Section 1003.3.1 Headroom	Protruding objects permitted to 80" if not more than 50% of the ceiling area is reduced
Exception	Door closers and stops shall not reduce to less than 78"
When vertical clearance less than 80"	Provide a barrier with a leading edge located 27" max above the floor
Section 1003.3.3 Horizontal projections	Horizontal projections Shall not project more than 4" when located between 27" and 80" above the walking surface Handrails allowed to project 4 1/2"
Exception	
Table 1004.1.2 Occupant Load	
First Floor	Refer to support drawings
Storage Area	(300 gross) = 30 Occupants
Total Occupants	30 Occupants
Section 1007.1.1 Two exits or exit access doorways	Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed at a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Interlocking or scissor stairways shall be counted as one exit stairway
Section 1009.1 Accessible Means of Egress	*Accessible spaces must be provided with an accessible means of egress. Exception, accessible means of egress not required in alterations to existing buildings
Section 1017 Exit Travel Distance	Table 1017.2 Exit Access Travel Distance * Note: refer to NFA 101 2009 Table A7.6
Table 1020.1 Corridor Fire Resistance	S-1 with an occupant load less than 30 without a sprinkler system does not require a fire resistance rating - (24) OK
Table 1020.2 Minimum Corridor Width	Minimum width 3'-8" With occupant load of less than 50 3'-0"
Section 1020.4 Dead Ends	Occupancy S-1 Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20' in length

Chapter 11 Accessibility

Section 1104.5 Location	Accessible routes shall coincide with or be located in the same area as a general circulation path. Where the circulation path is interior, the accessible route shall also be interior. Where only one accessible route is provided, the accessible route shall not pass through billeting, storage rooms, restrooms, closets or similar spaces
Section 1105.1 Public entrances	Min 60% entrances Accessible entrance not required to areas not required to be accessible
Table 1106.1 Accessible Parking Spaces	Total parking spaces 1 to 25 26 to 50 51 to 75 76 to 100 101 to 150
Section 1106.5 Van Spaces	For every 6 accessible spaces At least 1 shall be van-accessible

NFPA 101 2015 - Life Safety Code Review

Chapter 3 Definitions	
Section 3.3.190.15 Storage Occupancy	An occupancy primarily used for the storage or sheltering of goods, products, merchandise or vehicles

Chapter 4 General - Life Safety Code

Section 4.5.3.1 Number of Means of Egress	Two means of egress, as a minimum, shall be provided in every building or structure, section, and area, where size, occupancy, and arrangement endanger occupants attempting to use a single means of egress that is blocked by fire or smoke. The two means of egress shall be arranged to minimize the possibility that both might be rendered impassable by the same emergency condition.
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Chapter 5 Performance-Based Option - Life Safety Code

Section 5.4.5.4 Number of Occupants	The design shall be based on the maximum number of people that every occupied room or area is expected to contain. Where the success or failure of the design is contingent on the number of occupants not exceeding a specified maximum, operational controls shall be used to ensure that the maximum number of occupants is not exceeded.
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Chapter 6 Classification of Occupancy and Hazard Contents

Section 6.1.13.1 Storage Occupancy	An occupancy used primarily for the storage or sheltering of goods, merchandise, products or vehicles For requirements, see Chapter 42
Section 6.2.1.1 Hazard of Contents	For the purpose of this Code, the hazard of contents shall be the relative danger of the start and spread of fire, the danger of smoke or gases generated, and the danger of explosion or other occurrence potentially endangering the lives and safety of the occupants of the building
Section 6.2.2.3 Classification of Hazard of Contents (Ordinary Hazard)	Ordinary hazard contents shall be classified as those that are likely to burn with moderate rapidity or to give off a considerable volume of smoke

Chapter 7 Means of Egress

Section 7.1.5.1 Means of egress headroom	Not less than 7'-6" with projections not less than 6'-8"
Table 7.3.1.2 Occupant Load Factor	First Floor - single story only Storage occupancy (500 gross) = 18 Occupants
Section 7.5.1.4 Means of Egress	Where common paths of travel are permitted for an occupancy in Chapters 11 through 43, such common paths of travel shall be permitted but shall not exceed the limit specified
Section 7.5.1.5	Exit access shall be arranged so that there are no dead ends in corridors, unless permitted by, and limited to the lengths specified in, Chapters 11 through 43

Chapter 8 Features of Fire Protection

Section 8.3.3.3.1 Fire Doors	Fire door assemblies shall be installed, inspected, tested and maintained in accordance with NFPA 80
Section 8.3.3.3.5	Unless otherwise specified, fire doors shall be self-closing or automatic-closing

Chapter 9 Building Service and Fire Protection Equipment

Section 9.6.2.3	A manual fire alarm box shall be provided as follows, unless modified by another section of this code: (1) For new alarm system installations, the manual fire alarm box shall be located within 60 inches of exit doorways (2) For existing alarm system installations, the manual fire alarm box either shall be provided in the natural exit access path near each required exit or within 60 inches of exit doorways
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Chapter 42 - New/Existing Storage Occupancies

Section 42.1.1.1	The requirements of this chapter shall apply to both existing and new storage occupancies
Section 42.1.1.4	Storage occupancies shall include all buildings or structures used primarily for the storage or sheltering of goods, merchandise, products, or vehicles
Section 42.1.2.1	Storage occupancies shall include all buildings and structures or parts thereof with occupancy as defined in 6.1.1.3
Section 42.1.5.1 Classification of Hazard of Contents	Contents of storage occupancies shall be classified as low hazard, ordinary hazard, or high hazard in accordance with Section 6.2, depending on the quantity and character of the materials stored, their packaging, and other factors
Section 42.1.5.1 Means of Egress Requirements	Each required means of egress shall be in accordance with applicable portions of Chapter 7
Section 42.2.5 Dead end corridors	50 ft - Ordinary Hazard (Non-sprinklered)
Table 42.2.6 Maximum Travel Distance to Exits	200 ft - Ordinary Hazard (Non-sprinklered)
Section 42.3.3.2 Interior wall and ceiling finish	Class A or B
Section 42.3.3.3.1 Interior floor finish	Interior floor finish shall not be less than Class I
Table 42.7.5.2 Travel Distance to Exits	200 ft - Ordinary Hazard (Non-sprinklered)

INTERNATIONAL ENERGY CONSERVATION CODE - 2015 Edition

Commercial Energy Efficiency - Note: ci = continuous insulation / LS = Liner System			
BUILDING ENVELOPE REQUIREMENTS	R- RATED VALUES	U-Factor Method	CODE REFERENCE
Climate Zone 7 - Opaque Assemblies	*All Other - Roofs		IECC Chapter 4
Insulation Entirely Above Roof Deck	R-35 ci	U=0.028	IECC Table C402.1.3
Metal Bldgs with R-5 Thermal Blocks	R-30 + R-11 LS - Provided	U=0.029	and Table C402.1.4
Attic and Other	R-49	U=0.021	
Mass	*All Other, Walls Above Grade	U=0.071	
Metal Building	R-15.2 ci	U=0.062	
Metal Framed	R-13 + R-13 ci - Provided	U=0.064	
Wood Framed and Other	R-13 + R-7.5 ci	U=0.051	
	or R-20 + R-3.8 ci		
Below Grade Wall [with no heated slabs]	*All Other, Walls Below Grade		
	R-10 ci	C=0.092	
Mass	*All Other - Floors	U=0.055	
Joist/Framing (steel/wood)	R-15 ci	U=0.033	
	R-30		
Unheated Slabs	*All Other, Slab-on-Grade Floors	F=0.40	
Heated Slabs	R-15 for 24" below	F=0.55	
	R-20 for 24" below		
Nonswinging	*All Other, Opaque Doors		
Swinging	R-4.75	U=0.37	



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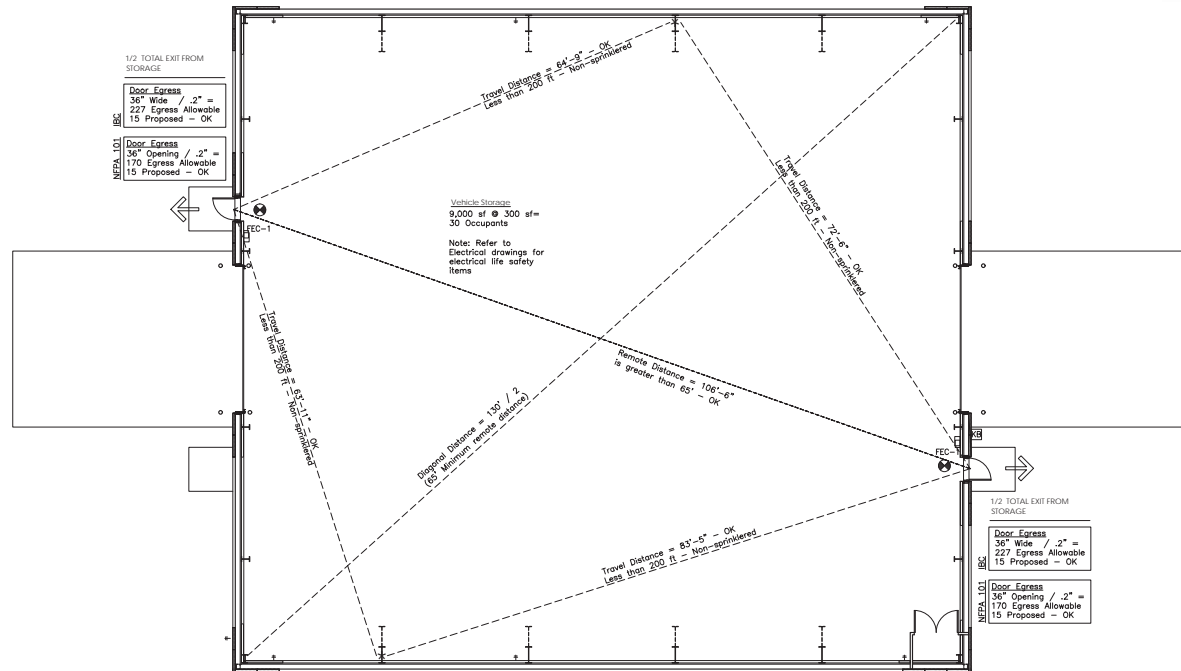
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DATE	00/00/00	ME	11/16/21	FE NUMBER	2000.01.28	DATE
BY	DSM	DSM				
DESIGNED/REALED	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES	

Code Analysis
 ISSUED for Bid
 NO SCRIBO

SHEET NUMBER

R.1



1 Proposed First Floor Plan

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

NOTES

- Life safety equipment and locations shall conform to all applicable codes.
- Fully test and inspect sprinkler system.
- Provide smoke detectors on both sides of doors with magnetic hold opens if specified.
- Provide pull station at each assembly door egress.
- Provide duct smoke detectors at each 2,000 CFM supply duct.
- Provide duct smoke detectors at each 15,000 CFM supply and exhaust duct.
- Obtain water supply flow test if available within last three years; if not available test must be conducted.
- All sprinkler heads must be quick response type.
- Electrical outlets shall be provided for all plug-in equipment. All other outlets shall be isolated per all applicable codes.
- Provide laminated floor plan at each public room indicating direction to building exit.

Fire Extinguisher Cabinet

FEC-1 Wall mounted Fire Extinguisher by Larsen or approved equivalent

Portable Fire Extinguishers:

- Location of fire extinguishers and cabinets shall conform to NFPA 10 Standards for Fire Extinguisher Cabinets.
- Portable fire extinguisher rating shall be 2-A, spacing shall not exceed a maximum of 75' and 3,000 sf.
- Portable fire extinguisher rating in combustible cooking media exist shall be rated Class K, spacing shall not exceed a maximum travel distance of 30'.

SYMBOL LEGEND (REFER TO ELECTRICAL DRAWINGS)

- LED Exit Light (unswitched)
- Two Head Emergency Lighting per Electrical Drawings
- Fire Alarm Audio/Visual, mount 6'-8" AFF, dB Level in Field
- CO / NO2 Detection System per Electrical Drawings
- Fire Alarm pull station, mount 48" AFF
- Fire Alarm Control Panel Station
- Knox Box (location and type to be approved by Sherman Fire Department)
- Fire extinguisher cabinet and type

Vehicle Storage Building

Egress - IBC (Table 1004.1.1)

First Floor		
Vehicle Storage	9,000 sf @ 300 gross =	30 Occupants
Total All Spaces		30 Occupants

Egress - Life Safety (Table 7.3.1.2 Occupant Load Factor)

First Floor		
Vehicle Storage	9,000 sf @ 500 of gross =	18 Occupants
Total All Spaces		18 Occupants

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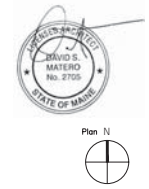
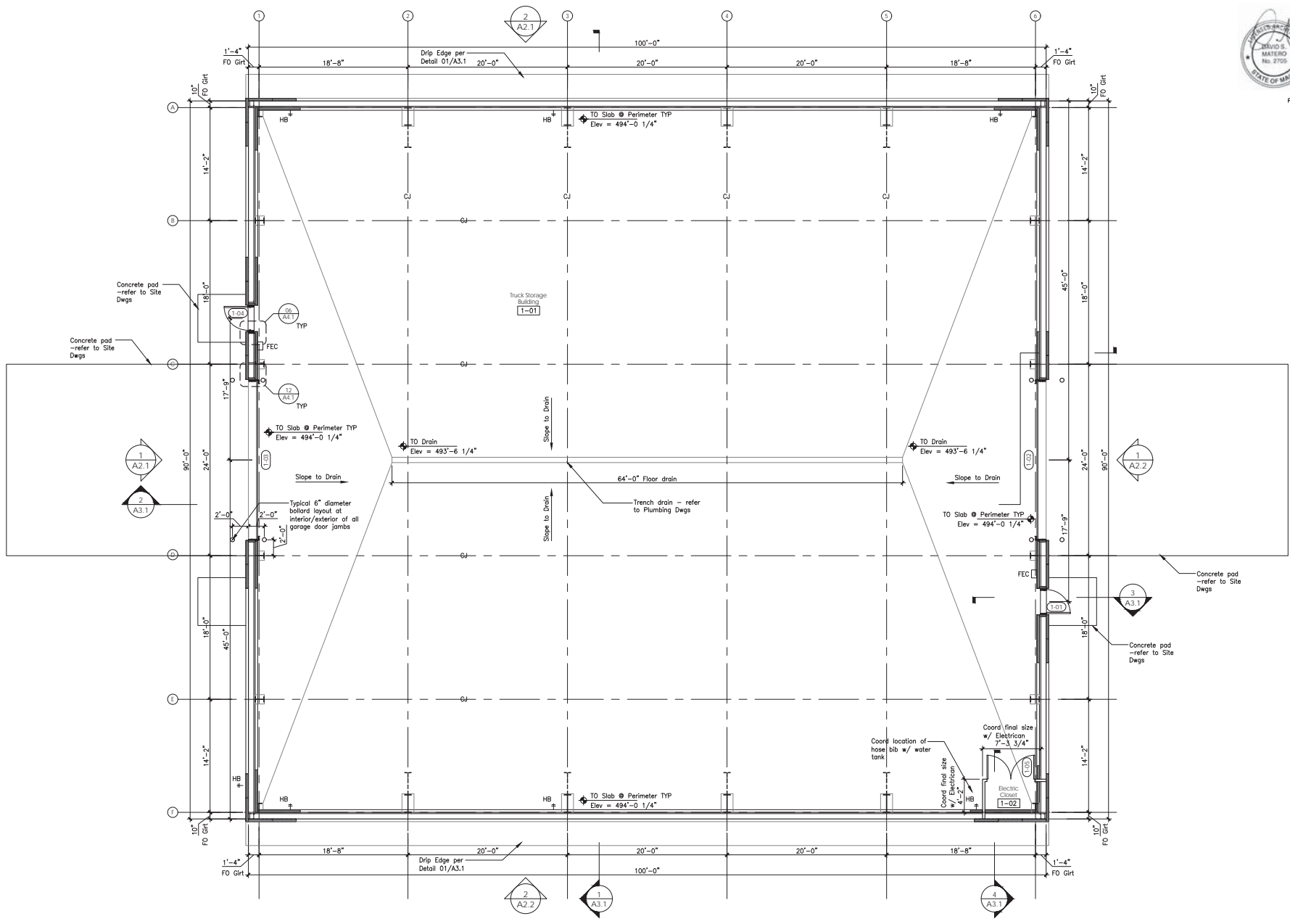
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DATE	BY	DESCRIPTION
03/08/20	DSM	ME
11/18/21	DSM	ME
		FE NUMBER
		2020.01.28
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Scale - As Noted

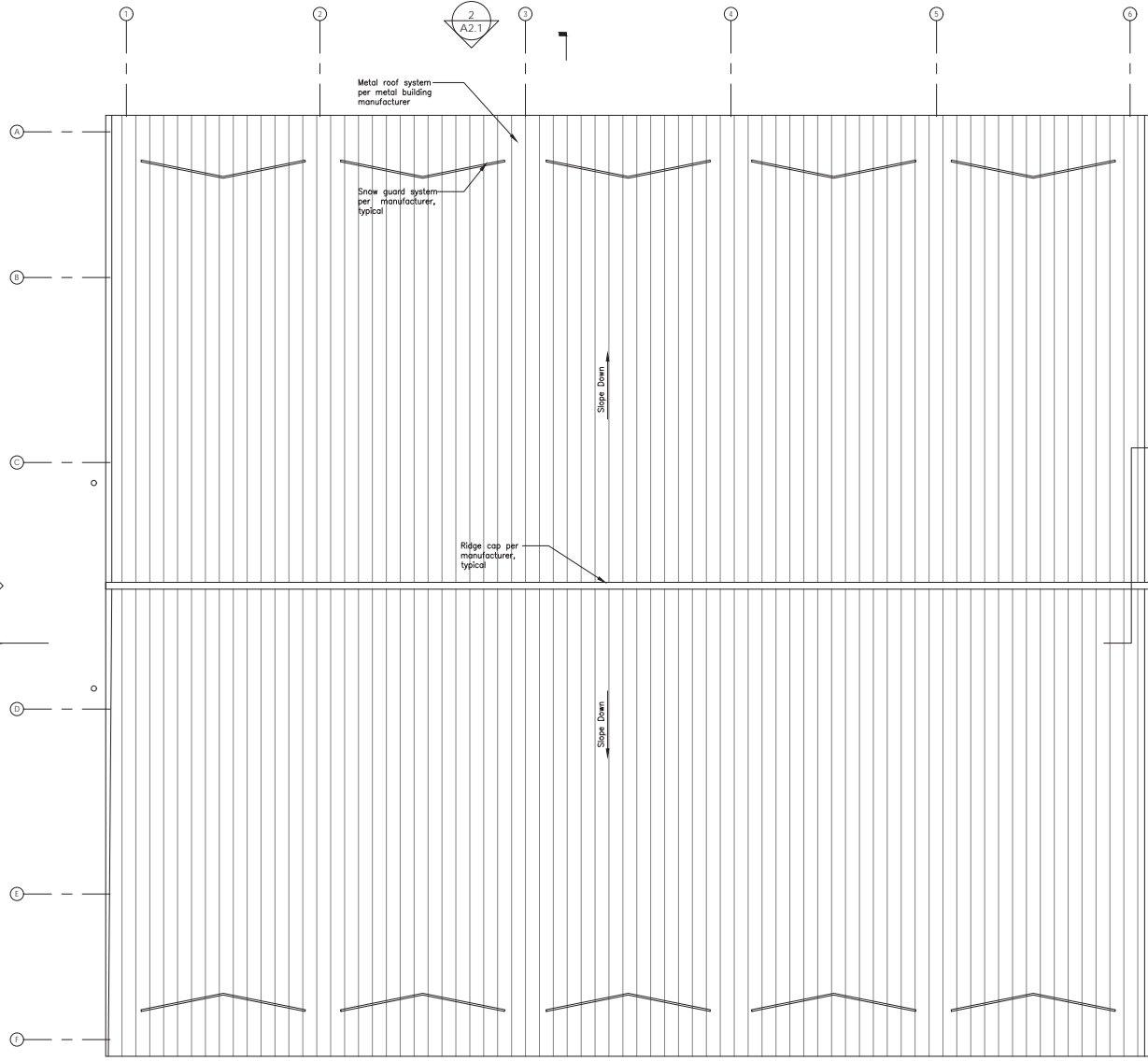
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ADDRESS		12 Quatey Drive, Sherman, Maine	
PROJECT NO.		WIN 02524.00	
David Matero ARCHITECTURE <small>100 South Street Bath, Maine 04502 207-248-4230 www.davidmatero.com</small>			
DATE	BY	DESIGN/DETAILED	CHECKED/REVIEWED
03/06/20	DSK	DSK	DSK
11/19/21	ME		
PROJECT NUMBER	DATE	REVISION 1	REVISION 2
	2020/01/28		
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Proposed First Floor Plan ISSUED for Bid Scale: 3/16" = 1' - 0"			
SHEET NUMBER <h1 style="margin: 0;">A1.1</h1>			

1 Proposed First Floor Plan

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



PREPARED FOR
STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524, 00

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REVISION 3			
FIELD CHANGES			

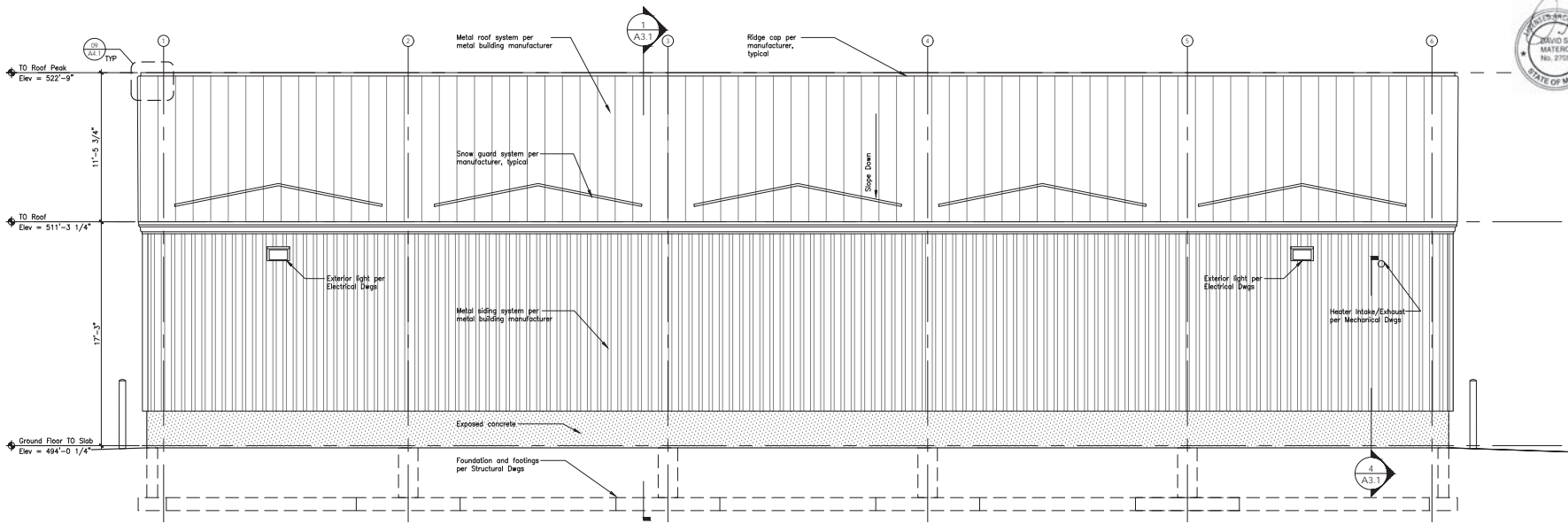
Proposed Roof Plan
 ISSUED for Bid
 Scale: 3/16" = 1' - 0"

SHEET NUMBER

A1.2

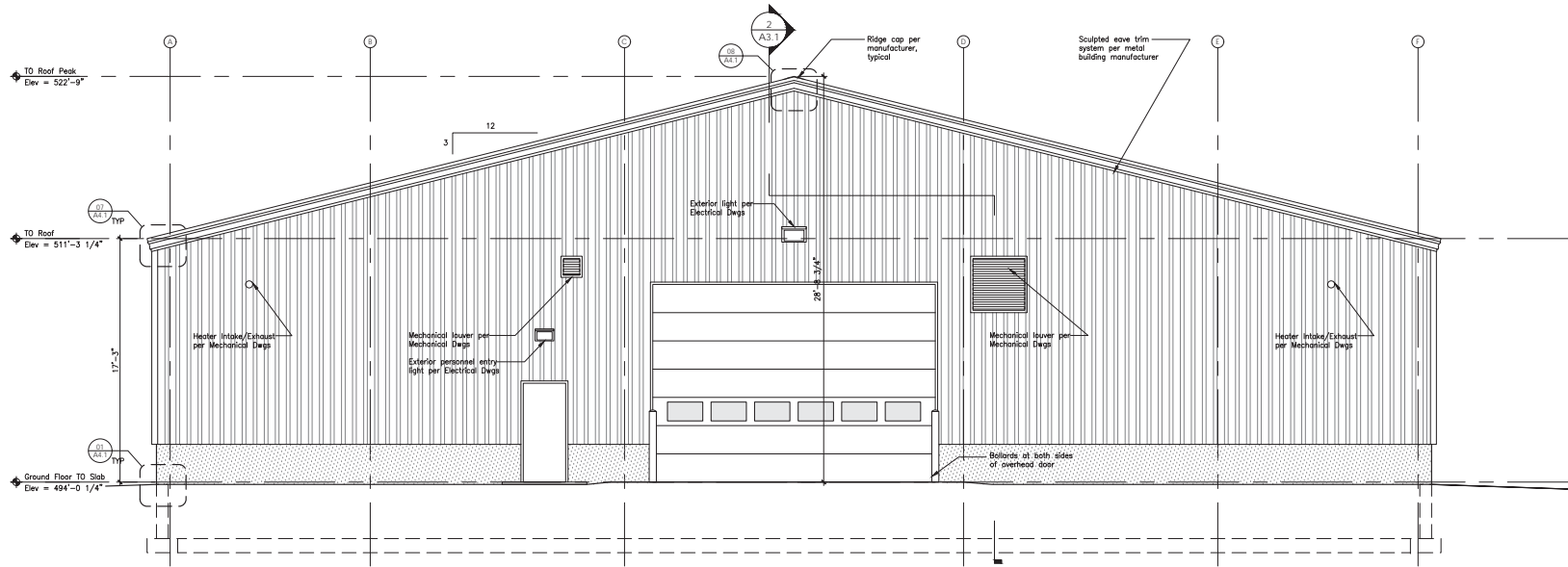
2 Proposed Roof Plan

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



2 Proposed East Exterior Elevation

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



1 Proposed South Exterior Elevation

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



PREPARED FOR:
STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524, 00

TRILLIUM
 ENGINEERING ARCHITECTURE
 David Matero
 ARCHITECTURE

BENNETT
 ENGINEERING

DATE	BY	DESIGNED	CHECKED	REVISION	FIELD CHANGES
03/09/20	DSM	DSM	DSM	REVISION 1	
11/18/21	ME			REVISION 2	
				REVISION 3	

Proposed South and West Elevations
 Issued for Bid
 Scale: 1/4" = 1'-0"

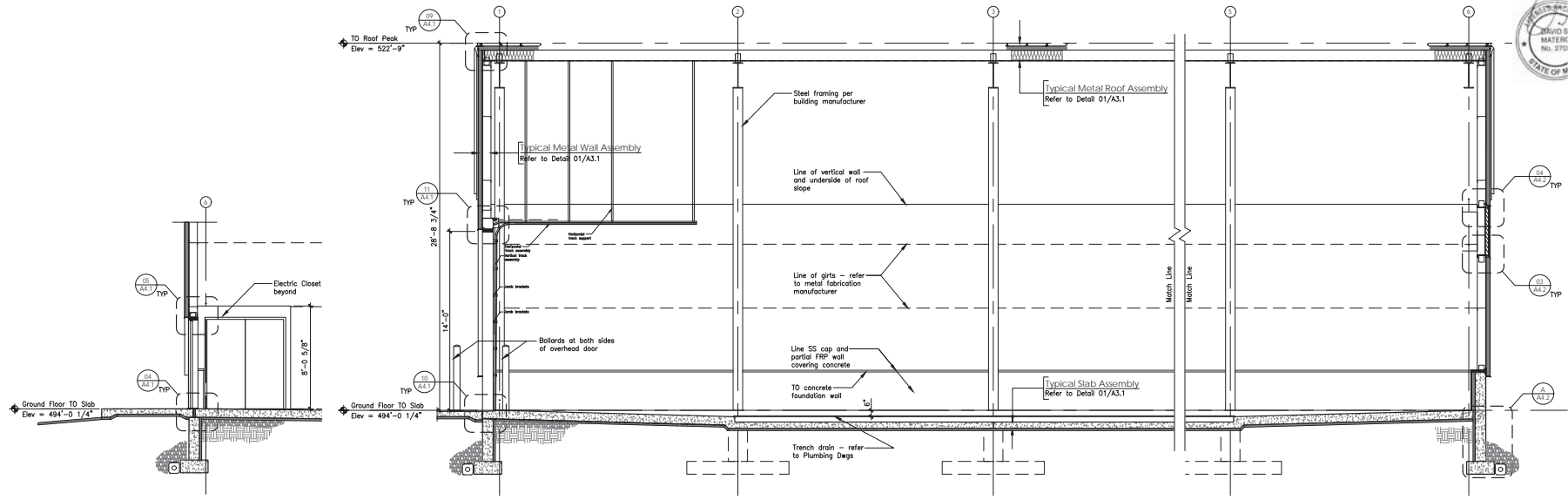
SHEET NUMBER
A2.1



PREPARED FOR:
STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524, 00

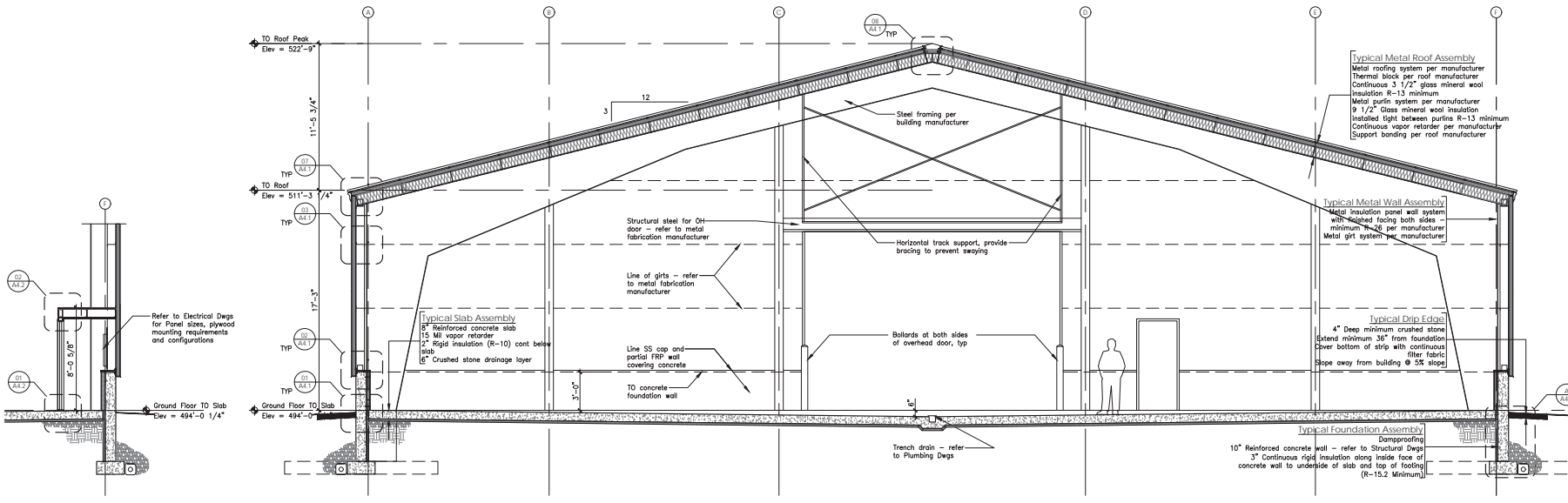


David Malero
 ARCHITECT



3 Partial Section @ Exit Door, Typical
 Scale: 1/4" = 1'-0"

2 Building Cross Section
 Scale: 1/4" = 1'-0"



4 Partial Section @ Elect Closet
 Scale: 1/4" = 1'-0"

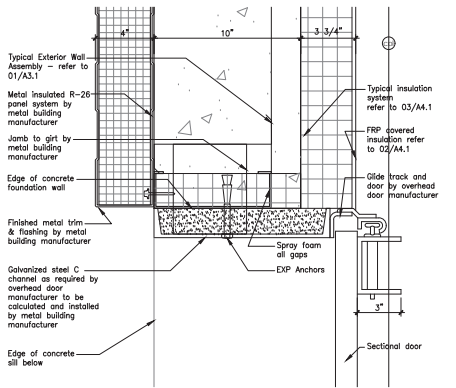
1 Building Section
 Scale: 1/4" = 1'-0"

DATE	BY	DSM	DSM	ME	PE NUMBER
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11/18/21					
					20200128

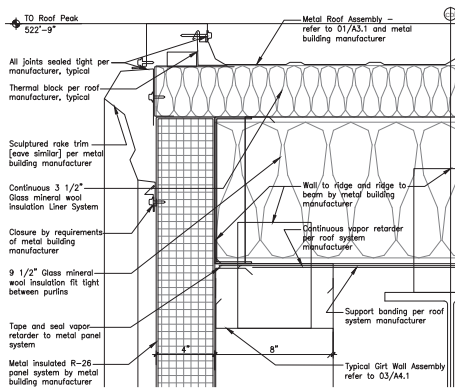
Building Sections
 Issued for Bid
 Scale: 1/4" = 1'-0"

SHEET NUMBER

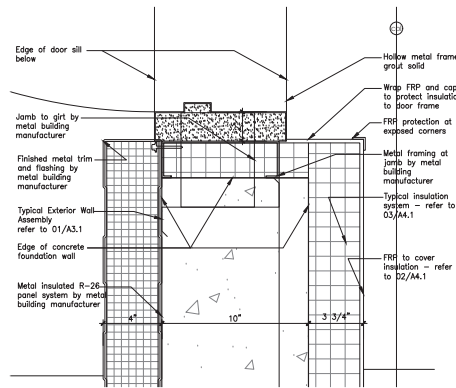
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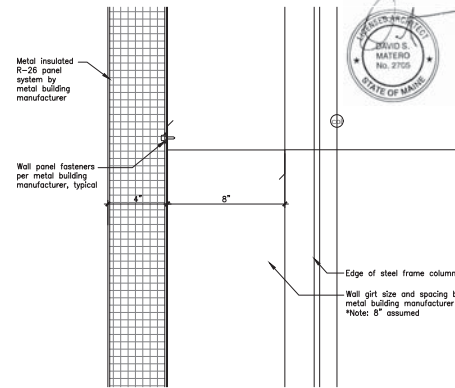
12 Plan Detail @ Overhead Door Jamb Scale: 3" = 1'-0"



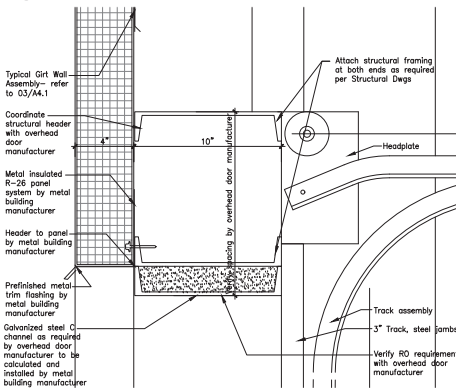
09 Section Detail @ Rake Scale: 3" = 1'-0"



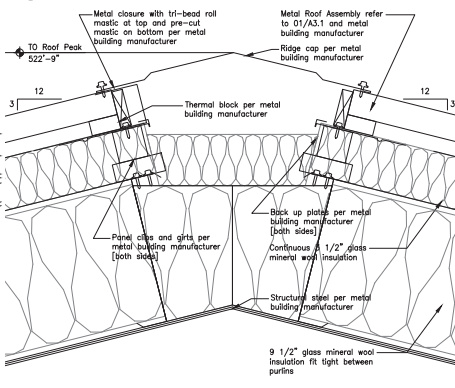
06 Plan Detail @ Exterior Door Jamb Scale: 3" = 1'-0"



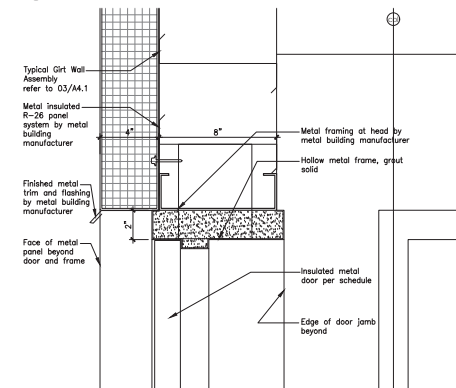
03 Section Detail @ Typical Steel Girt Wall Assembly Scale: 3" = 1'-0"



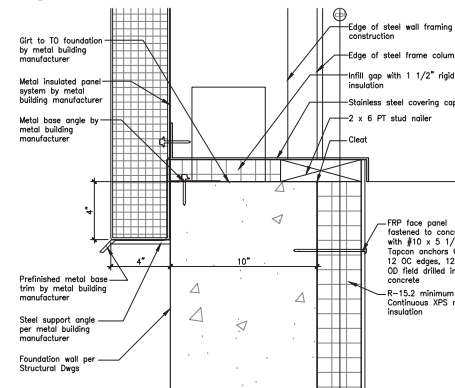
11 Section Detail @ Section Door Head Scale: 3" = 1'-0"



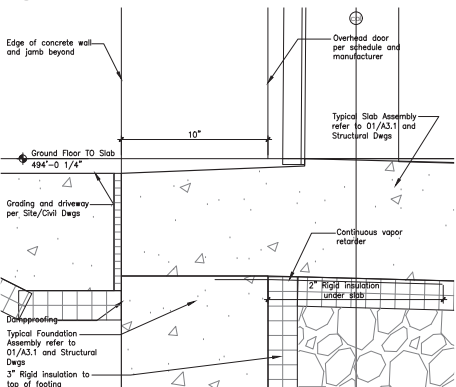
08 Section Detail @ Ridge Scale: 3" = 1'-0"



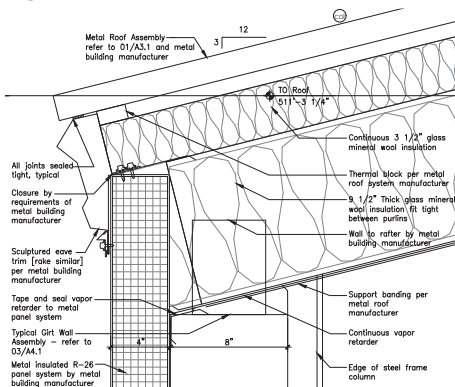
05 Section Detail @ Exterior Door Head Scale: 3" = 1'-0"



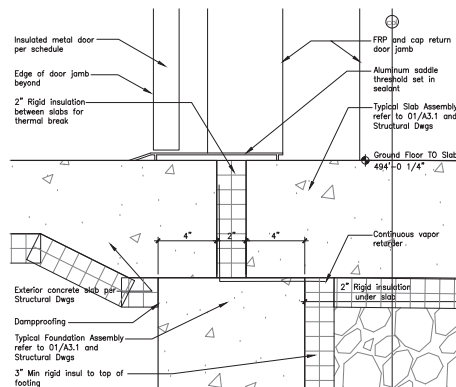
02 Section Detail @ TO Foundation - Base of Metal Wall Scale: 3" = 1'-0"



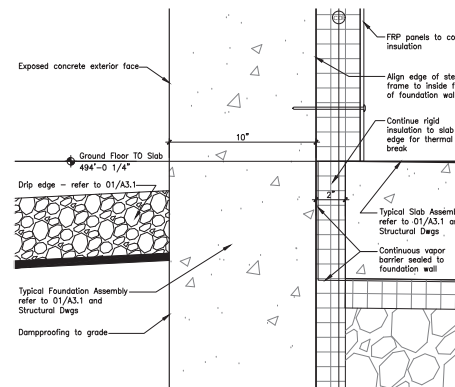
10 Section Detail @ Sectional Door Sill Scale: 3" = 1'-0"



07 Section Detail @ Eave Scale: 3" = 1'-0"



04 Section Detail @ Door Sill Scale: 3" = 1'-0"



01 Section Detail @ Slab and Foundation Wall Scale: 3" = 1'-0"



STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524, 00

TRILLIUM
 ENGINEERING GROUP, INC.
 485 W. Main Street
 Lewiston, ME 04240
 David Matero
 Architecture

BENNETT
 ENGINEERING
 1000 S. Main Street
 Lewiston, ME 04240

DATE	BY	DISM	CHECKED/REVISED	ME	PER NUMBER	DATE
03/09/20						
11/08/21						
20/01/28						

DESIGN/DETAILED	CHECKED/REVISED	REVISION 1	REVISION 2	FIELD CHANGES

Details
 Issued for Bid
 Scale: 3" = 1'-0"

SHEET NUMBER

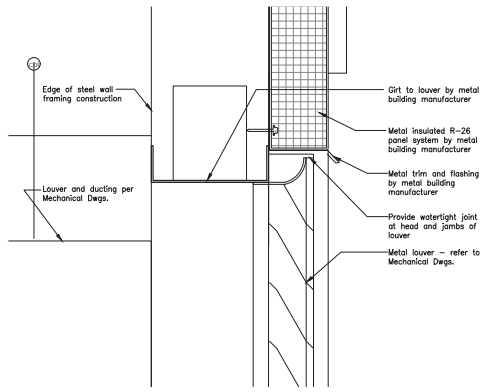
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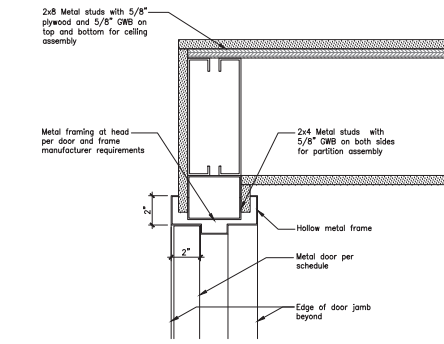
PREPARED FOR: STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524, 00

TRILLIUM
 ENGINEERING GROUP
 485 South Main Street
 Portland, ME 04101
 407.750.0000
 info@trilliumeng.com

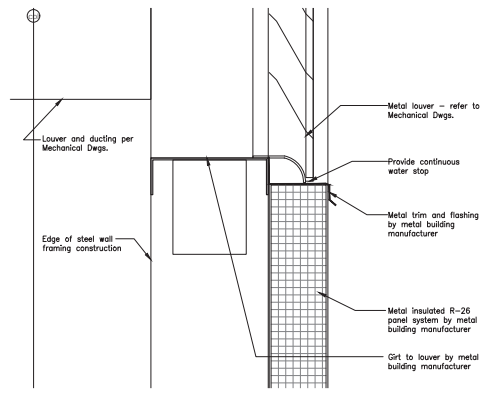
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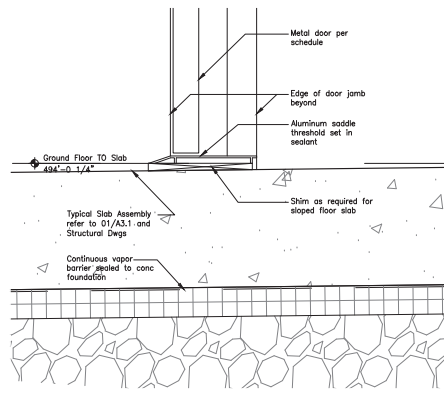
04 Section Detail @ Louver Head [Jamb Similar], Typical
 Scale: 3" = 1'-0"



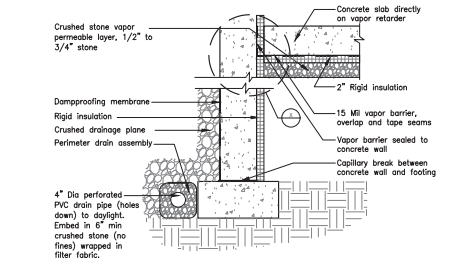
02 Section Detail @ Interior Door Head
 Scale: 3" = 1'-0"



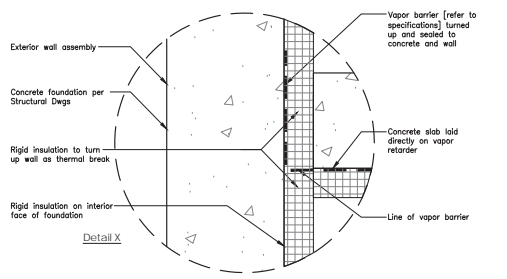
03 Section Detail @ Louver Sill, Typical
 Scale: 3" = 1'-0"



01 Section Detail @ Interior Door Sill
 Scale: 3" = 1'-0"



- General Notes**
1. Provide minimum 15 mil Vapor barrier. Overlap and tape seams per manufacturer's instructions.
 2. Concrete slab shall be poured directly on vapor retarder/barrier. Do not puncture vapor barrier.
 3. Vapor retarder/barrier shall be turned up concrete wall and taped/sealed to wall.
 4. Refer to structural drawings for concrete and reinforcing bar information and specifications.



A Section Detail @ Vapor Barrier / Retarder of Slab & Foundation
 Scale: 3" = 1'-0"

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
03/06/20	DISM	DESIGN/DETAILED	11/18/21	ME	PER NUMBER
	DISM	CHECKED/REVISED			
		REVISION 1	20/01/28		DATE
		REVISION 2			
		REVISION 3			
		FIELD CHANGES			

Details
 Issued for Bid
 Scale: 3" = 1'-0"

SHEET NUMBER

A4.2

GENERAL NOTES

THE FOLLOWING BUILDING CODES AND STANDARDS SHALL BE REFERENCED DURING CONSTRUCTION:

IBC 2009	EDITION OF THE IBC INTERNATIONAL BUILDING CODE
ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 301	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE
ACI 308	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR REINFORCED CONCRETE CURING PRACTICE
ACI 308.1R	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR REINFORCED CONCRETE CURING PRACTICE - REVISION OF NOVEMBER 2014
ACI 308.3R	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR REINFORCED CONCRETE CURING PRACTICE - REVISION OF NOVEMBER 2014
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ACI 308.99R	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR REINFORCED CONCRETE CURING PRACTICE - REVISION OF NOVEMBER 2014
ACI 308.100R	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR REINFORCED CONCRETE CURING PRACTICE - REVISION OF NOVEMBER 2014

REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. REFERENCE ARCHITECTURAL PLANS FOR SIZES AND LOCATIONS OF WALL. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, OR NOTES ON THE DRAWINGS, THE DEPARTMENT SHALL BE NOTICED PRIOR TO CONSTRUCTION.

EXISTING DIMENSIONS AND CONDITIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OR FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE DEPARTMENT PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF DEVIATIONS OR CHANGES ARE REQUIRED TO THE CONTRACT DOCUMENTS OR APPROVED SHOP DRAWINGS DUE TO INTERFERENCES, FABRICATION ERRORS, OR OTHER CAUSES.

THE STRUCTURE IS SELF-SUPPORTING AND STABLE AFTER THE ENTIRE BUILDING IS COMPLETELY CONSTRUCTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCING DURING CONSTRUCTION AND ERECTION TO PROTECT AND ENSURE LOCAL AND OVERALL STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION AND ERECTION. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN TEMPORARY BRACING/SHORING AND DETERMINE WHERE THE TEMPORARY BRACING/SHORING IS NEEDED.

FOUNDATION NOTES

SUBGRADE PREPARATION AND DETERMINATION (INCLUDING ALLOWABLE BEARING PRESSURE, STRUCTURAL FILL GRADATION REQUIREMENTS, COMPACTION REQUIREMENTS AND POST-CONSTRUCTION SETTLEMENT ANALYSIS) BENEATH FOOTINGS AND SLAB-ON-GRADE AND BEHIND FOUNDATION WALLS SHALL BE PROVIDED BY THE DEPARTMENT. ALL FILL USED TO SUPPORT FOUNDATIONS AND SLAB-ON-GRADE SHALL CONSIST OF WELL-GRADED 1" CRUSHED GRAVEL. STRUCTURAL SLABS SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF STRUCTURAL FILL SOIL WITH PROPERTIES FOR THE DEPARTMENT.

PRESUMED ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN = 2,000 PSF.

BEARING CAPACITIES SHALL BE VERIFIED BY THE DEPARTMENT.

MINIMUM FROST DEPTH COVER = 4'-0" FOR EXTERIOR FOOTINGS BELOW FINAL EXTERIOR GRADE. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF ANY DISCREPANCIES.

FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL UNLESS NOTED OTHERWISE. BEARING ELEVATIONS SHALL BE LOWERED WHERE SUITABLE SOILS ARE NOT ENCOUNTERED. WHERE OVEREXCAVATION HAS OCCURRED, CONTRACTOR MAY PLACE LEAN CONCRETE ON TOP OF NATIVE SOIL. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF ANY UNSUITABLE SOILS ARE ENCOUNTERED PRIOR TO PLACING FOUNDATIONS.

FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY ON BOTH SIDES OF THE WALL. FOUNDATION WALLS AND SLAB-ON-GRADES SHALL REACH THEIR FULL 28 DAY COMPRESSIVE STRENGTH PRIOR TO BACKFILLING. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS WHEN BACKFILL IS PLACED PRIOR TO CONCRETE ACHIEVING ITS FULL 28 DAY STRENGTH. BACKFILL FOR FOUNDATION WALLS IS BASED ON DRAINED CONDITIONS. SEE ARCHITECTURAL, CIVIL, AND MECHANICAL DRAWINGS FOR FOUNDATION DRAINAGE SYSTEM.

PROTECT FOUNDATIONS FROM FROST AND KEEP BOTTOM OF TRENCH DRY DURING CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED NEAR OR ABOVE THE BASE OF THE FOOTINGS, DRAINAGE SHALL BE DEWATERED DURING CONSTRUCTION. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING AND BRACING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING, AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

CONCRETE REINFORCING NOTES

USE DEFORMED BILLET-STEEL REINFORCING BARS, GRADE 60, IN CONFORMANCE WITH ASTM A615. REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED PRIOR TO CONCRETE PLACEMENT, AND SHALL BE SECURED AGAINST DISPLACEMENT.

THE CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWINGS TO THE DEPARTMENT FOR REVIEW AND ACCEPTANCE PRIOR TO COMMENCING FABRICATION. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES. SHOP DRAWINGS SHALL SHOW REINFORCING STEEL PLACEMENT DETAILS AND SECTIONS.

MINIMUM CONCRETE COVER FOR REINFORCEMENT	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER	2 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN SLABS AND WALLS (FOR PRIMARY REINFORCEMENT, TIES, AND STIRRUPS)	1 1/2 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN COLUMNS AND BEAMS	1 1/2 INCHES

CONTINUOUS REINFORCEMENT SHALL BE TENSION LAP SPLICED PER LAP SPlice LENGTH TABLE, U.N.O.

LAP SPlice LENGTH TABLE	
BAR SIZE	#3 #4 #5 #6 #7 #8 #9
MIN LAP SPlice (INCHES)	18 24 30 36 48 64 81

REINFORCEMENT HOOKS SHALL CONFORM TO STANDARD HOOKS ACCORDING TO ACI 318. BENDING OF REINFORCEMENT IS NOT PERMITTED, U.N.O.

CONCRETE NOTES

ALL CONCRETE WORK, INCLUDING MATERIAL SELECTION, ADMIXTURES, MIXING, AND PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH APPLICABLE BUILDING CODES. IN ADDITION, REFERENCE THE FOLLOWING CONCRETE STANDARDS AND SPECIFICATIONS:

ACI 318	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 301	AMERICAN CONCRETE INSTITUTE SPECIFICATIONS FOR STRUCTURAL CONCRETE
ACI 308	STANDARD PRACTICE FOR CURING CONCRETE

REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

LOCATION	MAX W/C RATIO	f _c	AIR-ENTRANMENT
FOUNDATIONS, FOOTINGS, & FOUNDATION WALLS	.52	4,350 PSI	5% - 7%
INT. SLAB-ON-GRADE	.47	4,350 PSI	1% - 4%
EXT. SLAB-ON-GRADE	.45	4,350 PSI	5% - 7%

WHERE: W/C = WATER TO CEMENT RATIO AND
f_c = COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

MAXIMUM AGGREGATE SIZE SHALL BE 3/4" IN CONFORMANCE WITH ASTM C33. USE PORTLAND CEMENT TYPE I IN CONFORMANCE WITH ASTM 150. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 265. ADMIXTURES SHALL CONFORM TO "SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" ASTM C 494. FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED.

MAXIMUM SLUMP BEFORE THE ADDITION OF A WATER-REDUCING ADMIXTURE IS 6 INCHES.

CONCRETE EXPOSED TO FREEZING AND THAWING, INCLUDING FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, AND INTERIOR SLABS SHALL BE AIR ENTRAINED WITH AIR CONTENT BETWEEN 5% AND 6%. CONTRACTOR SHALL NOT PLACE CONCRETE ON FROZEN GROUND OR IN WATER. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING NEAR-FREEZING OR FREEZING WEATHER. REFERENCE SECTION 502.08 COLD WEATHER CONCRETE OF "STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, REVISION OF NOVEMBER 2014", FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETE.

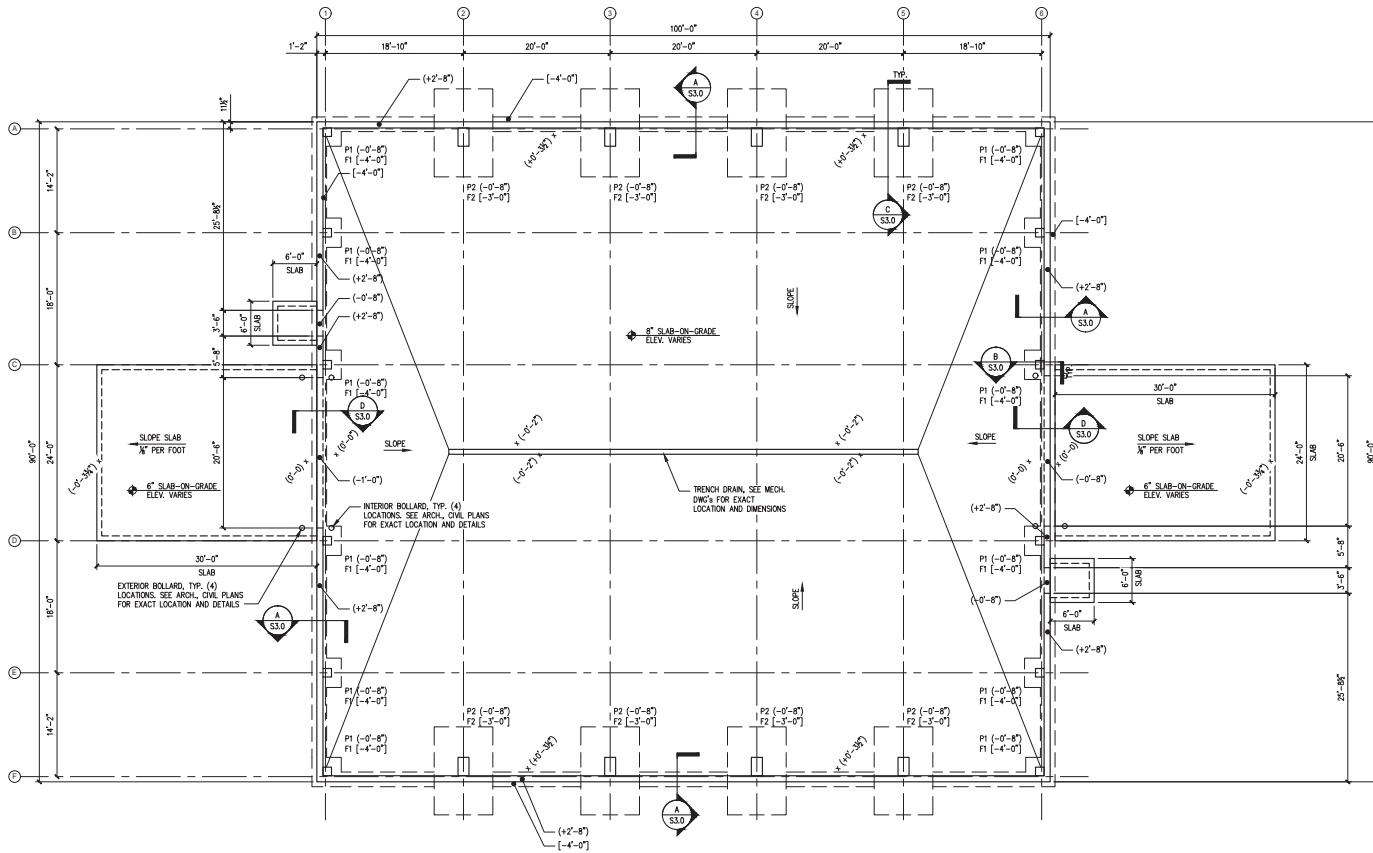
CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE MIX DESIGN AND LABORATORY TESTS OF FABRICATED CYLINDERS VERIFYING CONCRETE STRENGTH OR PERFORMANCE HISTORY OF MIX TO THE DEPARTMENT FOR ACCEPTANCE PRIOR TO PLACEMENT OF CONCRETE. CONCRETE USED ON SITE SHALL BE FIELD TESTED BY THE DEPARTMENT. FIELD TESTING INFORMATION SHALL INDICATE SLUMP, AIR CONTENT, AND TEMPERATURE. COMPRESSION TEST 1 CYLINDER AT 7 DAYS AND 2 AT 28 DAYS. HOLD AN ADDITIONAL CYLINDER FOR A 56 DAY BREAK, IF NECESSARY. PROVIDE A SET OF 4 CYLINDERS FOR EACH PLACEMENT AND FOR 50 CUBIC YARDS OF CONCRETE PLACED. THE DEPARTMENT SHALL PROVIDE ALL CONCRETE TESTING.

CONSTRUCTION JOINTS IN WALLS ARE NOT PERMITTED.

ANCHOR BOLTS SHALL CONFORM TO ASTM F1554. ANCHOR BOLTS SHALL HAVE HEAVY HEX NUTS AND LOCK WASHERS.

ABBREVIATIONS

AB	ANCHOR BOLT	L	ANGLE
ASCL	ASBESTOS	LD	DOUBLE ANGLE
ARCH	ARCHITECT	LB	POUND
AND	AND	LF	LONG LEG HORIZONTAL
B/FTL BOF	BUILDING	LLV	LONG LEG VERTICAL
BUS	TYPE OF FOOTING	LV	LONG LEG
BM	BEAM	MAX	MAXIMUM
BOF	BOTTOM	MECH	MECHANICAL
BRC	BEARING	MFR	MANUFACTURER
BTWN	BETWEEN	MIN	MINIMUM
		MISC	MISCELLANEOUS
C	CANTILEVER	NF	NEAR FACE
CAIT	CAST-IN-PLACE CONCRETE	NO	NUMBER
CP	CONTROL JOINT	NS	NEAR SIDE
CL	CENTRELINE	NTS	NOT TO SCALE
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CONJ	CONCRETE JOINT	OFAC	OUTSIDE FACE OF OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONN	CONNECTION	P	PIER DESIGNATION
CONT	CONTINUOUS	PLATE	PLATE
CONTR	CONTRACTOR	PPF	PARTIAL PENETRATION WELD
CP	COMPLETE PENETRATION WELD	PREFAB	PREFABRICATED
CY	CUBIC YARD	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
DA	DIAMETER	RENF	REINFORCING STEEL REQUIRED
DM	DIMENSION	REQ	REQUIRED
DISCONT	DISCONTINUOUS	RF	ROOF DRAIN
DWG	DRAWING	RF	ROOF DRAIN
		SC	SLIP CRITICAL
EA	EACH	SECT	SECTION
EF	EACH FACE	SH	SHEDDING
EL ELEV	ELEVATION	SMR	SMALL
EQ	EQUAL	SM	SLAB-ON-GRADE
ES	EACH SIDE	SPAC	SPACING
EW	EACH WAY	SPEC	SPECIFICATIONS
EXP	EXPANSION	SS	STAINLESS STEEL
EXT	EXTERIOR	STD	STANDARD
		STR	STIFFENER
F	FOOTING DESIGNATION	STL	STEEL
FDN	FOUNDATION	STR	STRAIGHT
FLR	FLOOR	STRUCT	STRUCTURAL
FT	FLANGE	T	TOP
FTG	FOOTING	T&B	TOP AND BOTTOM
FTV	FIELD VEBRY	TOP	TOP OF CONCRETE
		TOP	TOP OF FOOTING
		TEMP	TEMPERATURE
		T/SHELF	TOP OF SHELF
		T/SLAB	TOP OF SLAB
		T/STL	TOP OF STEEL
		T/WALL	TOP OF WALL
		T/TYPICAL	TYPICAL
		UNP	UNLESS NOTED OTHERWISE
		VER, VERT	VERTICAL
		VERT	VERTICAL FIELD
		W	STRUCTURAL STEEL WIDE FLANGE
		W/O	WITHOUT
		W/P	WORK POINT



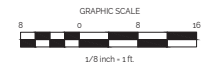
NOTE: FINAL PIER LAYOUT, DIMENSIONS, AND FOOTINGS TO BE COORDINATED AND ADJUSTED WITH FINAL PRE-ENGINEERED METAL BUILDING LOADS AND DIMENSIONS

SPREAD FOOTING SCHEDULE				
TYPE	LENGTH	WIDTH	DEPTH	REINFORCING
F1	4'-0"	4'-0"	1'-0"	(5)-#6's BOTI, EW
F2	12'-0"	8'-0"	2'-0"	#6 @ 10" o.c. E.W., TOP #6 @ 12" o.c. E.W., BOTI.

FOUNDATION PLAN

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

- NOTES:
 1. SEE SHEET S3.0 FOR TYPICAL SLAB-ON-GRADE DETAIL
 2. REFERENCE T/SLAB ELEVATION = 494'-20"



PREPARED FOR:
 STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Ordway Drive, Sherman, Maine
 WIN 02524.0.00

TRILLIUM
 ENGINEERING GROUP
 389 MAIN STREET SUITE 200
 YARMOUTH ME 04995
 David Matero
 P.E. No. 12538
 Architecture
 40 Center Street
 Bethel, Maine 04210
 207.864.4726
 info@davidmatero.com

BENNETT ENGINEERING
 MECHANICAL - ELECTRICAL - PLUMBING

ME:	REVISION:	DATE:

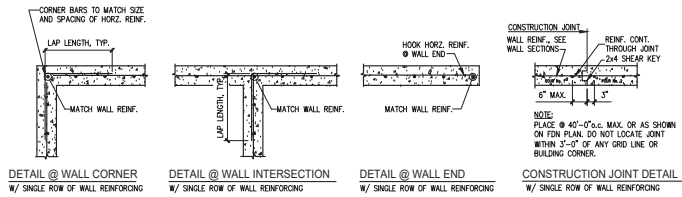
DATE:	
BY:	

DESIGN DETAIL:	
CHECKED/REVIEWED:	
REVISION 1:	
REVISION 2:	
REVISION 3:	
FIELD CHANGES:	

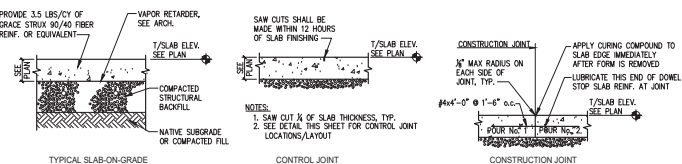
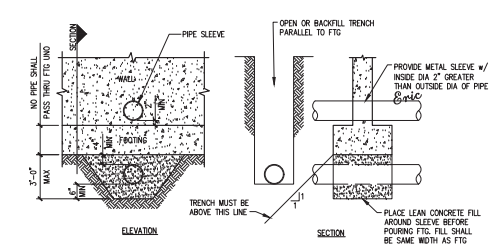
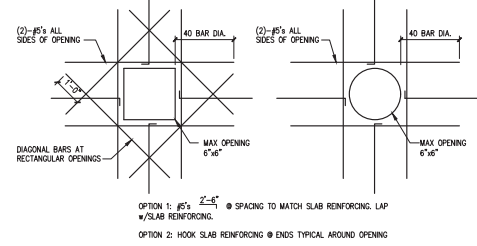
MDOT SHERMAN
 FOUNDATION PLAN

SHEET NUMBER

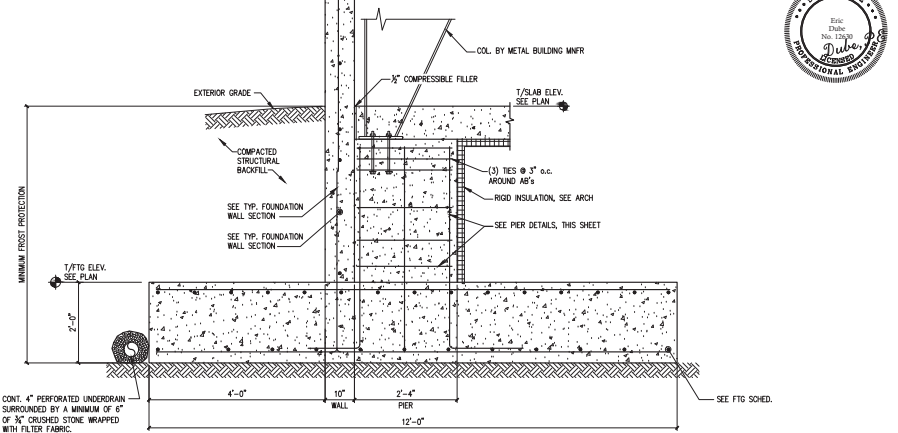
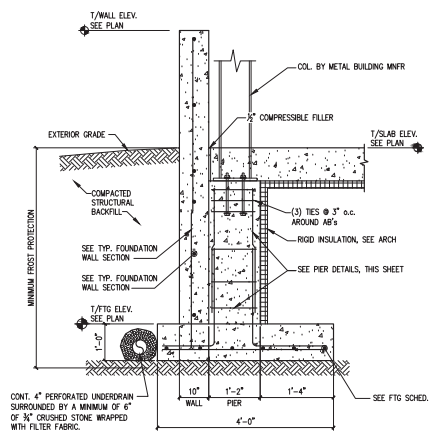
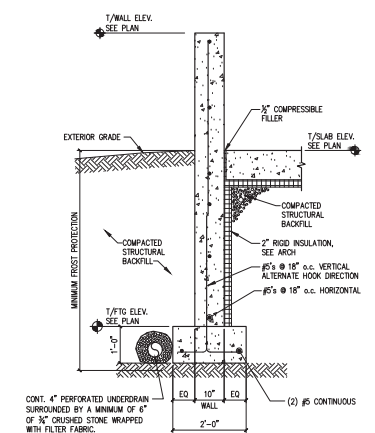
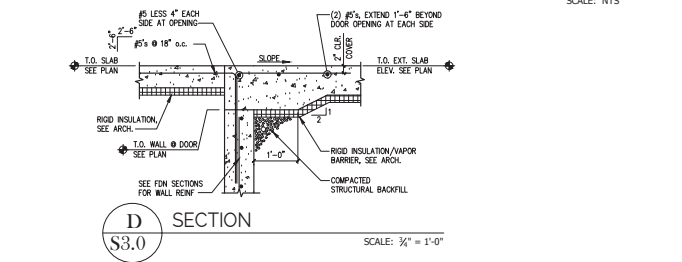
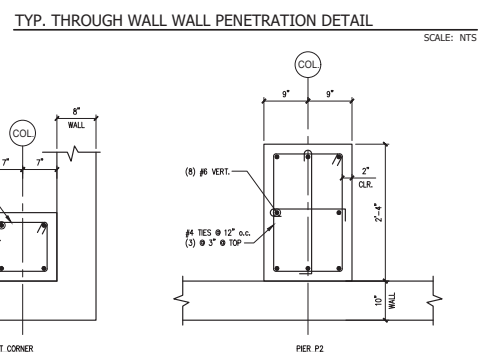
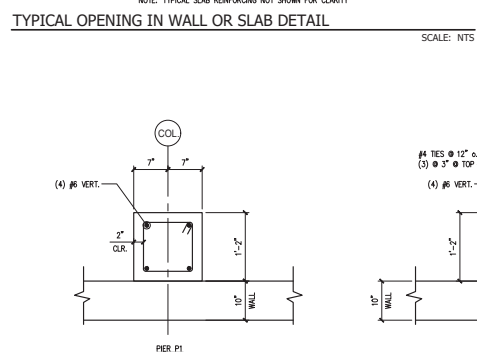
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TYP. FOUNDATION WALL DETAILS



TYP. SLAB-ON-GRADE DETAIL



STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Ordway Drive, Sherman, Maine
WIN 02524000

TRILLIUM
ENGINEERING GROUP
189 MAIN STREET SUITE 200
YARMOUTH, ME 04096

David Matero
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44 Collins Street
Portland, ME 04103
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www.davidmatero.com

BENNETT
ENGINEERING
1000 W. BROAD ST.
PORTLAND, ME 04102

DATE	BY	CHKD	REVISED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

MDOT SHERMAN
FOUNDATION DETAILS
AND SECTIONS

SHEET NUMBER

S3.0

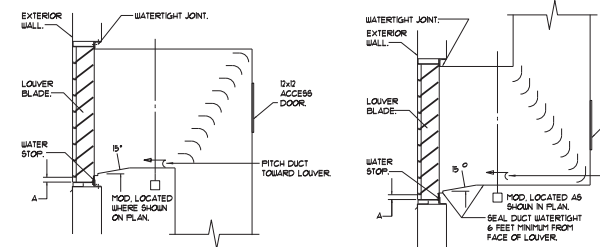


GAS-FIRED UNIT HEATER PERFORMANCE SCHEDULE													
TAG	INPUT (TBSH)	OUTPUT (TBSH)	THERMAL EFF. %	AIRFLOW (CFM)	VELOCITY (FT/FT)	HTGHT. (FEET)	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - RENOV		
							HP	FLA	NOCP	V/PHAZ	SERVICE	ARRANGEMENT	MODEL
GR4H-1	300	249	83	3843	807	14	1/2	11.0	20	120/1/60	GARAGE	HORIZONTAL	UD45-300
GR4H-2	250	201	83	3302	911	14	1/2	11.0	20	120/1/60	GARAGE	HORIZONTAL	UD45-300
GR4H-3	250	201	83	3302	911	14	1/4	13	15	120/1/60	GARAGE	HORIZONTAL	UD45-250
GR4H-4	250	201	83	3302	911	14	1/4	13	15	120/1/60	GARAGE	HORIZONTAL	UD45-250

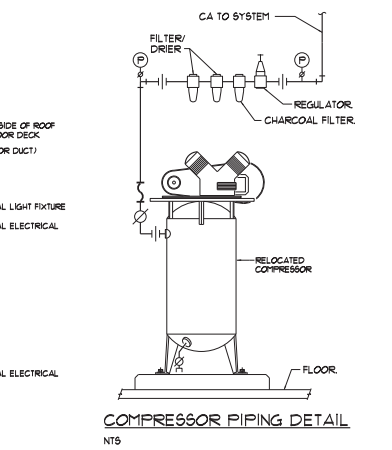
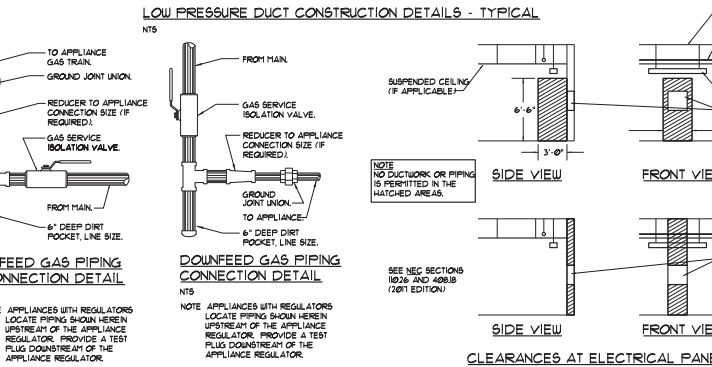
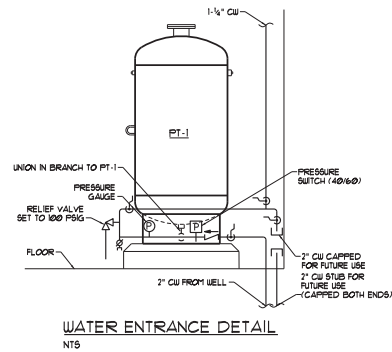
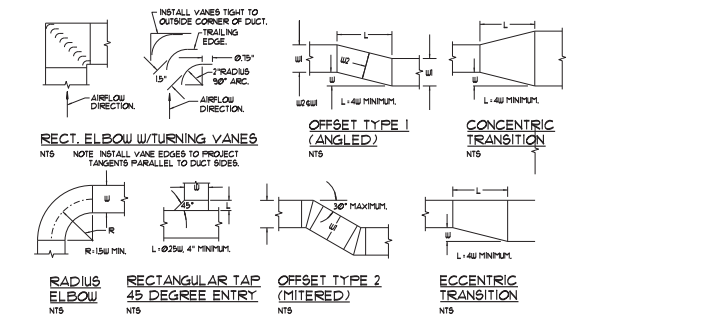
PRESSURE TANK PERFORMANCE SCHEDULE										
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MINIMUM DRAINDOWN (GAL/60MIN)	MAX. WORKING TEMPERATURE (DEG F)	MAX. WORKING PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN - AMTROL			
							MOUNTING	SERVICE	MODEL	
PT-1	158	158	36	240	150	581	FLOOR	DOM WATER	10X-45C	

PADDLE FAN PERFORMANCE SCHEDULE										
TAG	AIRFLOW (CFM)	RPM	QTY BLADES	DIA (IN)	HP	AMP'S	V/PHAZ	BASIS OF DESIGN - BIG ASS FANS		
								SERVICE	WEIGHT	MODEL
FF-1	-	135	6, 12 FT	15	25	240/1/60	GARAGE	185	BASIC 6	

LOUVER PERFORMANCE SCHEDULE										
TAG	AIR FLOW (CFM)	HP LOSS (INWG)	AIR VEL. (FPM)	SIZE (INCHES) (S&H)	FREE AREA (SQFT)	BLADE ANGLE (°)	FRAME DEPTH (IN)	BASIS OF DESIGN - RUSKIN		
								SERVICE	WEIGHT	MODEL
L-1	450	0.03	448	18x18	100	Y	31-1/2", 6"	EF-1 MAKEUP	ELF63T5DX	
L-2	6300	0.08	694	48x48	908	Y	31-1/2", 6"	EF-2 MAKEUP	ELF63T5DX	
L-3	450	0.03	448	18x18	100	Y	31-1/2", 6"	EF-1 EXHAUST	ELF63T5DX	
L-4	6300	0.08	694	48x48	908	Y	31-1/2", 6"	EF-2 EXHAUST	ELF63T5DX	

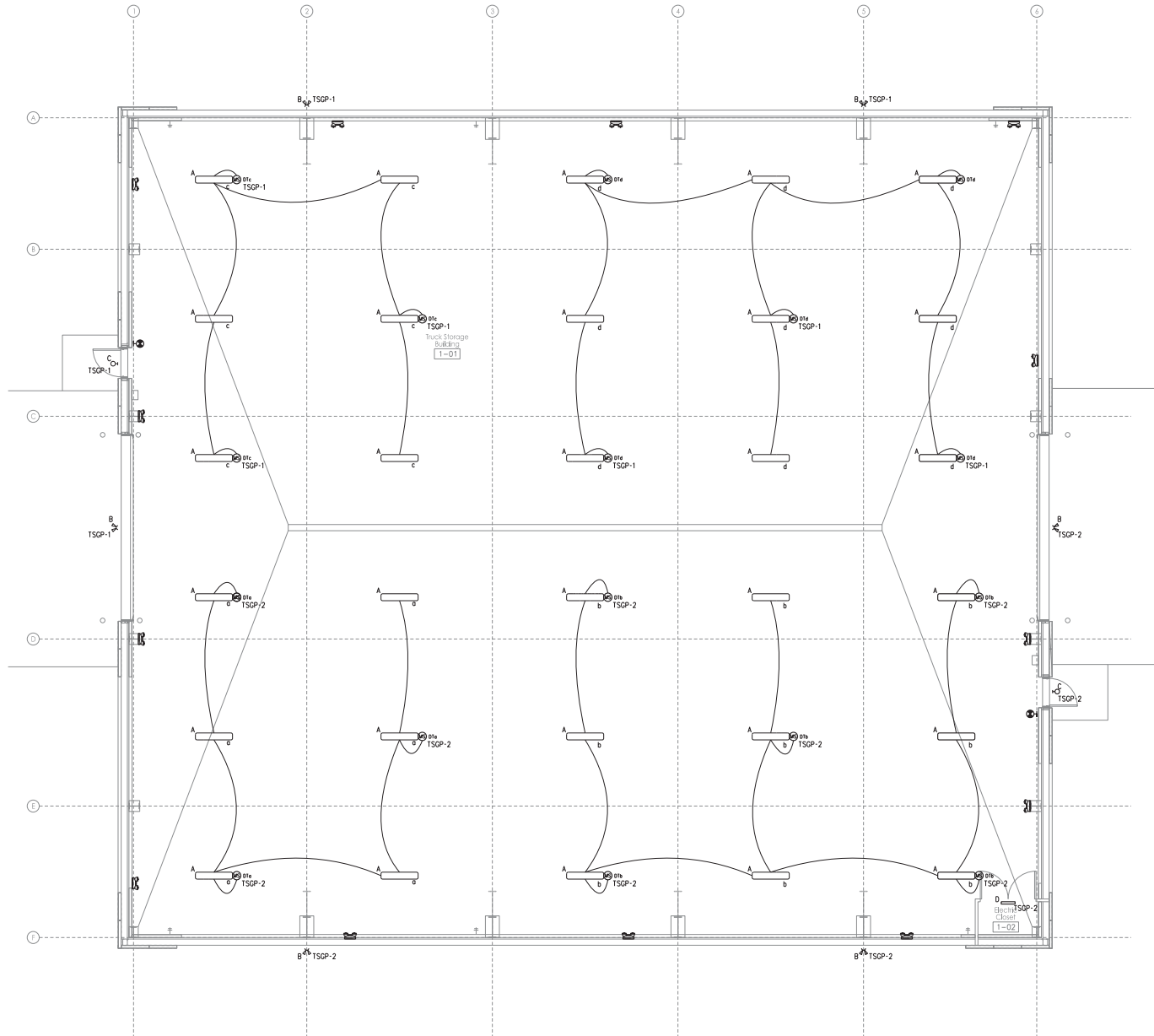


FAN PERFORMANCE SCHEDULE													
TAG	AIRFLOW (CFM)	1/2P (INWG)	NOISE (SONES)	RPM	DRIVE	HP	BHP	ECM	AMP'S	V/PHAZ	BASIS OF DESIGN - GREENECK		
											SERVICE	ARRANGEMENT	MODEL
EF-1	360	0.5	7.6	578	DIRECT	1/10	0.07	Y	-	120/1/60	CONTINUOUS EXHAUST	IN LINE	BQ-30-VG
EF-2	350	0.5	12.3	941	BELT	3/4	0.64	-	-	230/1/60	INTERMITTENT EXHAUST	IN LINE	BQ-100-1
EF-2B	350	0.5	12.3	941	BELT	3/4	0.64	-	-	230/1/60	INTERMITTENT EXHAUST	IN LINE	BQ-100-1



MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND
NOTE: USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
—CA—	COMPRESSED AIR PIPING (CA)	⊕	BALL VALVE	⊕	TOTAL OR SENSOR W/ TAMPER-PROOF GUARD	B-1	BOILER TAG	EUB	ENTERING UT BULB	LB	POUNDS	RPZ	REDUCED PRESSURE ZONE
—C—	CONDENSATE DRAIN PIPING (C)	⊕	BALL VALVE	⊕	MANUAL AIR VENT	BD-1	BYPASS DAMPER TAG	EDH-1	ELECTRIC WATER HEATER TAG	LD-1	LINEAR DIFFUSER TAG	RR-1	RETURN REGISTER TAG
—CUR—	CHILLED WATER RETURN PIPING (CUR)	⊕	3/4" BALL VALVE WITH 3/4" HOSE END	⊕	NOTE TAG (NUMBER)	BFP-1	BYPASS PREVENTER TAG	EUT	ENTERING WATER TEMPERATURE	LTH/WR	LOW TEMPERATURE HOT WATER	RTU	ROOM TEMPERATURE SENSOR
—CWS—	CHILLED WATER SUPPLY PIPING (CWS)	⊕	GATE VALVE	⊕	AIR DEVICE TAG (LETTER) WITH CPM	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMP'S	RV	RELIEF VALVE
—FORS—	FUEL OIL RETURN PIPING (FORS)	⊕	PRESSURE REDUCING VALVE	⊕	ROOM NUMBER	BTM	BTM THERMAL UNITS PER HOUR	EXH	EXHAUST	LWCO	LOW WATER CUTOFF	RL	RAINWATER LEADER
—FOS—	FUEL OIL SUPPLY PIPING (FOS)	⊕	TURNING VANES	⊕	TURNING VANES	CB	COUNTER BALANCED DAMPER	FC	FLOOR CLEANOUT	LWT	LEAVING WATER TEMPERATURE	SA	SUPPLY AIR
—G—	GAS PIPING (G)	⊕	2-WAY CONTROL VALVE	⊕	DUCT W/ MANUAL DAMPER	CC-1	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MAX	MAXIMUM	SAN	SANITARY (DRAIN & WASTE)
—HUR—	HOT WATER RETURN PIPING (HUR)	⊕	2-WAY CONTROL VALVE	⊕	LAGGED DUCT	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR	SD	SHOKE DAMPER
—HWS—	HOT WATER SUPPLY PIPING (HWS)	⊕	SOLENOID VALVE	⊕	LAGGED DUCT	CHL-1	CHILLER TAG	FD-1	FLOOR DRAIN TAG	MCA	MINIMUM CURTAIN AMPLACITY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
—RL—	REFRIGERANT LIQUID PIPING (RL)	⊕	3-WAY CONTROL VALVE	⊕	DUCT W/ ACROSTIC LINING	CO	CLEANOUT	FLA	FLAT LOAD AMP'S	MIN	MINIMUM	SF	SUPPLY FAN
—RGS—	REFRIGERANT GAS PIPING (RGS)	⊕	3-WAY CONTROL VALVE (TOP VIEW)	⊕	DUCT W/ SQUARE TO ROUND TRANSITION	CUH-1	CABINET UNIT HEATER TAG	FOR	FUEL OIL RETURN	NC	NOISE CRITERION	SP-1	STATIC PRESSURE
—SANB—	SANITARY PIPING BELOW FLOOR (SANB)	⊕	2 BUTTERFLY VALVES W/ SINGLE ACTUATOR	⊕	FLEXIBLE DUCT	CP-1	CIRCULATING PUMP TAG	FOS	FUEL OIL SUPPLY	NIC	NOT IN CONTRACT	SR-1	SUPPLY REGISTER TAG
—SANF—	SANITARY PIPING ABOVE FLOOR (SANF)	⊕	BUTTERFLY VALVE W/ ACTUATOR	⊕	NOTOR OPERATED DAMPER	CT-1	COOLING TOWER TAG	FPH	FEET PER HOUR	NTS	NOT TO SCALE	SR-2	SUPPLY REGISTER TAG
—SFP—	SANITARY OUT PIPING	⊕	TRIPLE DUCT VALVE	⊕	AIRFLOW OUT	CV	VALVE COEFFICIENT	FPM	FEET PER MINUTE	OA	OUTSIDE AIR	SOFT	SQUARE FEET
—RLL—	RAINWATER LEADER ABOVE SLAB (RLL)	⊕	UNION	⊕	AIRFLOW IN	CHWR	CHILLED WATER SUPPLY AND RETURN	FS-1	FLOOR SINK TAG	OSD	OPPOSED BLADE DAMPER	TDP	TEMPERATURE DIFFERENTIAL
—CWD—	COLD WATER PIPING (CWD)	⊕	PIPE WITH FLANGES	⊕	DIAPHRAGM OR FLAT OVAL	CHWR	CHILLED WATER SUPPLY AND RETURN	FR-1	FLOOR RADIATION TAG	OD	OPEN ENDED DUCT	TEMP	TEMPERATURE
—HWS—	HOT WATER PIPING (HWS)	⊕	BUMP MOUNTED PUMP	⊕	FIRE DAMPER	DB	DRY BULB	GA	GAGE	OPRL	OVERFLOW RAINWATER LEADER	TCP	TEMPERATURE CONTROL PANEL
—RHWS—	REGULATED HOT WATER PIPING (RHWS)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOOR	DBR	DEGREES RELATIVE TO DOUBLE CHECK	GA	GAGE	OPRL	OVERFLOW RAINWATER LEADER	THV-1	THERMOSTATIC MIXING VALVE TAG
—FC—	FLEXIBLE PIPE CONNECTION (FC)	⊕	VERTICAL IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DC	DEGREES FAHRENHEIT	GAL	GALLONS	OPRL	OVERFLOW RAINWATER LEADER	THV-2	THERMOSTATIC MIXING VALVE TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-1	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	TYP	TYPICAL
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-2	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-1	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-3	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-2	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-4	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-3	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-5	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-4	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-6	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-5	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-7	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-6	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-8	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-7	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-9	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-8	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-10	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-9	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-11	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-10	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-12	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-11	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-13	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-12	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-14	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-13	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-15	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-14	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-16	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-15	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-17	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-16	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-18	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-17	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-19	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-18	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-20	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-19	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-21	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-20	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-22	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-21	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-23	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-22	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-24	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-23	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-25	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-24	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-26	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-25	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-27	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-26	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-28	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-27	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-29	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-28	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-30	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-29	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-31	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-30	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-32	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-31	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-33	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-32	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT UP	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-34	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-33	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION (FCV)	⊕	CARRIAGE TYPE IN LINE PUMP	⊕	ROUND OR FLAT OVAL DUCT DOWN	DCA	DOUBLE CHECK ATMOSPHERIC	GFH-35	GAS FIRED WATER HEATER TAG	OPRL	OVERFLOW RAINWATER LEADER	U4-34	UNIT HEATER TAG
—FCV—	FLEXIBLE PIPE CONNECTION												



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

PREPARED FOR: STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524.00

TRILLIUM
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STATE OF MAINE
 PROFESSIONAL ENGINEER
 LICENSE NO. 10000

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	DESIGNED/DRAWN		SA
	CHECKED/REVIEWED		SA
	REVISION 1		
	REVISION 2		
	REVISION 3		

STEVEN JONASON
 ME 8488
 PE NUMBER
 2001.11.18
 DATE

Lighting Plan

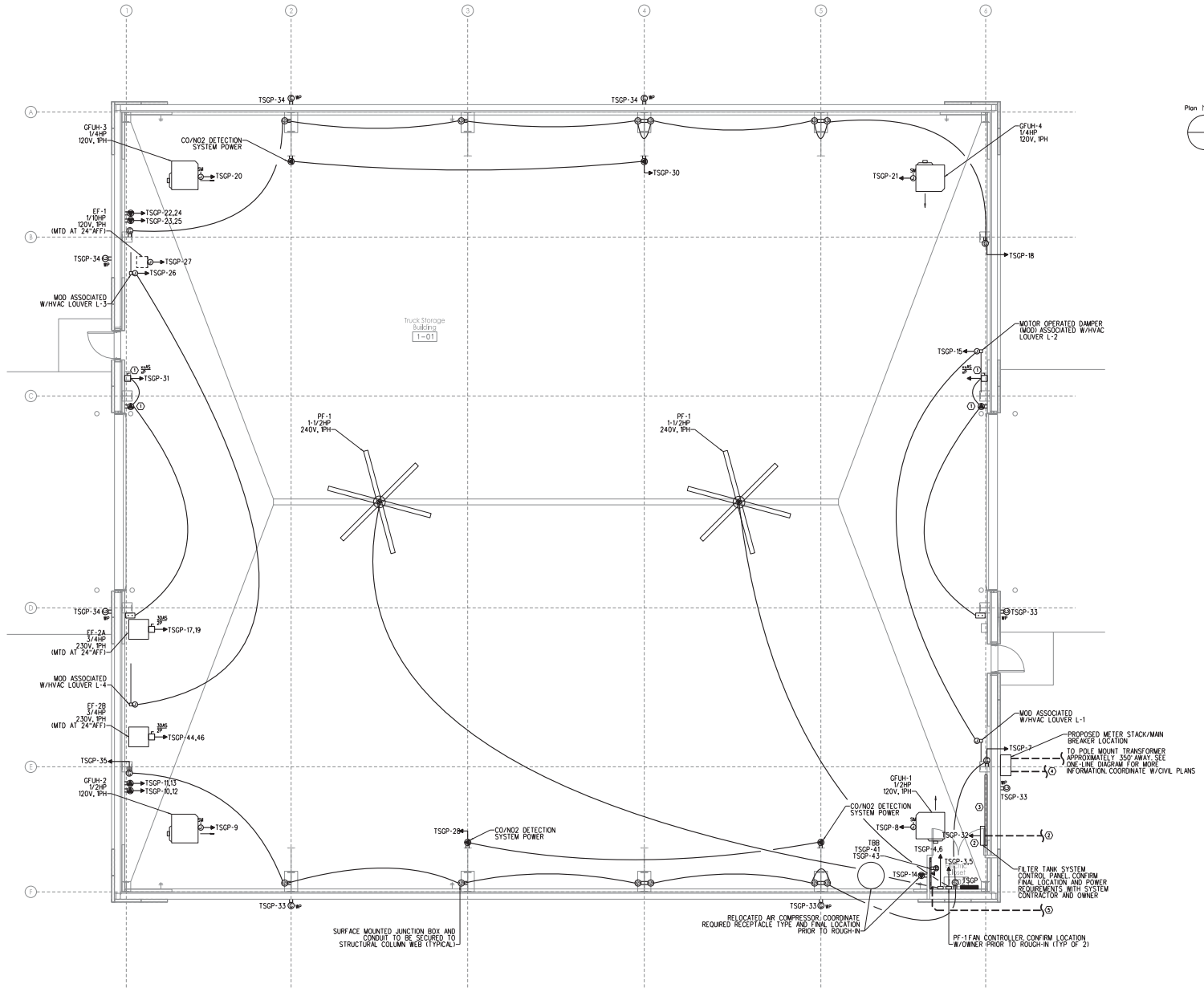
SHEET NUMBER
E1.1

POWER GENERAL NOTES

1. ALL HORIZONTAL CONDUIT RUNS SHALL BE ATTACHED TO CURT OF METAL BUILDING.

POWER WORK NOTES

- 1. CONTRACTOR SHALL COORDINATE EXACT MOUNTING LOCATION WITH OVERHEAD DOOR MANUFACTURER.
- 2. NEW FUEL TANKS WILL BE IN THE SAME AREA AS THE EXISTING TANKS. PROVIDE STEEL CONDUITS STUBBED AT TANK ALARM PANEL CUT THROUGH THE FOUNDATION AND BEYOND THE 30' PAVED APRON (A) 1-1/4" STEEL CONDUITS FOR THE NEW DIESEL TANK. 12" STEEL CONDUITS FOR THE FLOOR DRAIN TANK. ALL CONDUITS SHALL BE PROVIDED BY TANK MANUFACTURER. COORDINATE EXACT LOCATION WITH TANK SYSTEM VENDOR AND CIVIL PRIOR TO ROUGH-IN.
- 3. CONTRACTOR SHALL PROVIDE 4X8 PLYWOOD BOARD, PAINTED BLACK, FOR MOUNTING FUEL TANK SYSTEM CONTROLS AND ALARM EQUIPMENT.
- 4. CONTRACTOR SHALL PROVIDE 3"Ø WITH PULL STRINGS ONLY STUBBED UP AND CAPPED FOR FUTURE CREW QUARTERS BUILDING. COORDINATE WITH CIVIL PRIOR TO ROUGH-IN.
- 5. CONTRACTOR SHALL PROVIDE 2"Ø WITH PULL STRINGS ONLY TO 6-1/2" 26-1/2" 2705 HANDLE LOCATED AT FUTURE CREW QUARTERS BUILDING SITE FOR FUTURE TEL/DATA LINE. COORDINATE WITH CIVIL PRIOR TO COMMENCEMENT OF WORK.



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

STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Qualey Drive, Sherman, Maine
WIN 02524, 00

TRILLIUM
ENGINEERING GROUP
David Matoro
Architecture

BENNETT
ENGINEERS

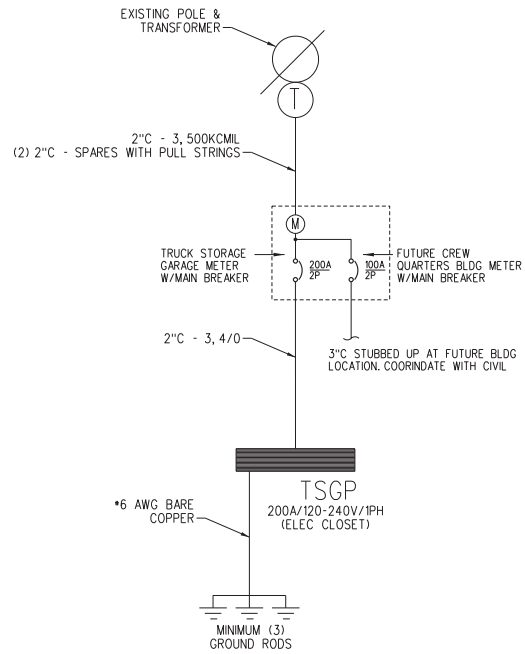


DATE	BY	DESIGNED/DRAWN	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

DATE	BY	DESIGNED/DRAWN	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

DATE	BY	DESIGNED/DRAWN	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

Power Plan
SHEET NUMBER
E2.1



ONE LINE DIAGRAM

SCALE: NONE

PANEL TSGP (GARAGE ELEC CLOSET) 120/240 1PH 4W 200 AMP MLO 42K AIC NEMA TYPE 1 (SURFACE)															
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	VA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	VA
1	URHYS: SOUTHWEST END OF BUILDING	30	1	22	0.90	10	2131	2	URHYS: NORTHEAST END OF BUILDING	30	1	22	0.90	10	2131
3		20	2	10	1.00	10	1200	4	PF-1 CONTROLLER #2	20	2	10	1.00	10	1200
5					1.00	0	1200	8							
7	RECEPTS: NORTHEAST	20	1	8	0.50	4	450	9	GFU#1: NORTHEAST (NEAR ELEC CLOSET)	20	1	11	1.00	11	1320
9	GFU#2: SOUTHEAST	15	1	11	1.00	11	1320	10	FUTURE EQUIPMENT: SOUTHEAST (CONFIRM POWER REQ.)	20	2		0.50	0	0
11	FUTURE EQUIPMENT: SOUTHEAST (CONFIRM POWER REQ.)	20	2		0.50	0	0	12							
13					0.50	0	0	14	EXISTING RELOCATED COMPRESSOR (CONFIRM POWER REQ.)	20	1		0.50	0	0
15	MOTOR OPERATED DAMPERS (MODS) AT L-1 & L-2	20	1		0.50	0	0	16	SPARE	20	1		0	0	0
17					1.00	7	628	18	RECEPTS: SOUTHWEST	20	1	12	0.50	6	720
19	EF-2	15	2	7	1.00	0	628	20	GFU#3: SOUTHWEST	15	1	8	1.00	8	500
21	GFU#4: NORTHWEST	15	1	8	1.00	8	900	22	FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.)	20	2		0.50	0	0
23	FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.)	20	2		0.50	0	0	24							
25					0.50	0	0	26	MOTOR OPERATED DAMPERS (MODS) AT L-3 & L-4	20	1		0.50	0	0
27	EF-1	20	1		1.00	0	0	28	COORDINATED DETECTION SYSTEM: NORTHEAST	20	1		0.50	0	0
29	OVERHEAD DOOR OPERATOR: NORTH	25	1		0.20	0	0	30	COORDINATED DETECTION SYSTEM: SOUTHWEST	20	1		0.50	0	0
31	OVERHEAD DOOR OPERATOR: SOUTH	25	1		0.30	0	0	32	FILTER TANK CONTROL PANEL	20	1		1.00	0	0
33	EXTERIOR RECEPTS: NORTH EAST SIDE OF BLDG	20	1	5	0.50	2	270	34	EXTERIOR RECEPTS: SOUTHWEST SIDE OF BLDG	20	1	6	0.50	3	360
35	RECEPTS: NORTHEAST	20	1	6	0.50	3	360	36	FUEL TANK EQUIPMENT (COORD. W/SUPPLIER)	20	2		1.00	0	0
37	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0	38							
39	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0	40	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0
41	TBB: LEFT RECEPTS	20	1	3	0.50	2	180	42	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0
43	TBB: RIGHT RECEPTS	20	1	3	0.50	2	180	44							
45	SPARE	20	1		0	0	0	46	EF-2B	20	1		1.00	0	0
47	SPARE	20	1		0	0	0	48	SPARE	20	1		1.00	0	0
49	SPARE	20	1		0	0	0	50	SPARE	20	1		0	0	0
51					0	0	0	52	SPARE	20	1		0	0	0
53					0	0	0	54							
55					0	0	0	56							
57					0	0	0	58							
59					0	0	0	60							
61					0	0	0	62							
63					0	0	0	64							
65					0	0	0	66							
67					0	0	0	68							
69					0	0	0	70							
71					0	0	0	72							

AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - 1)
DA - Demand Amperes
MLO - Main Lug Only
MOB - Main Circuit Breaker

Blow N

PREPARED FOR:
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Sherman Truck Storage Garage
12 Quatey Drive, Sherman, Maine
WIN 02524, 00

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	SA				REVISION 2
					REVISION 3
					FIELD CHANGES

STEVEN JONASON
ME 8485
PE NUMBER
2001.11.18
DATE

One-Line Diagram
& Panel Schedule

SHEET NUMBER
E3.2