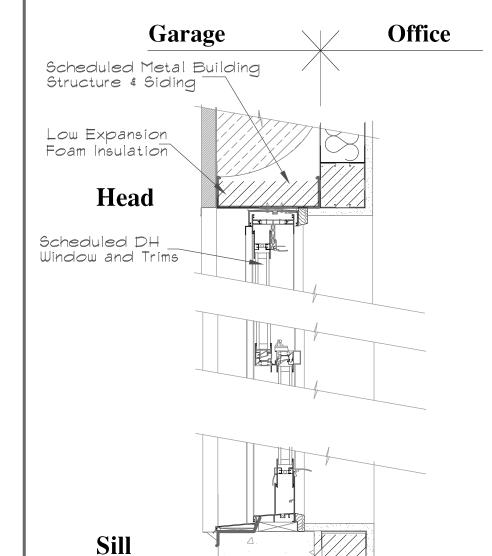


## **Elevation at Metal Building Structure**

Scale: 1/4" =  $1'-\emptyset$ "



Scale: 1 1/2" = 1'-0"

## **Scheduled Window Specification:**

The Window & system indicated is based on:

Kawneer Double-Hung AA 3350 IsoPort Thermally Separated DH Other window manufacturer's with matching shapes, dimensions, Performance characteristics and warranty may be considered equal once all equivalent information is provided.

Class / Grade Class CW-PG50-H / AW- PG50 -H Testing Standard AAMA-WDMA/CSA/101/1.S.2/ A440-08

Frame Depth 3 1/2" Overall Frame Typical Thickness Ø.7⊘" Nominal Standard Infill

> Muntins Between Glass Exterior and Interior Panning and Trims

Fixed Window Product Performance

Air-Infilltration NAFS-08

Water Resistance NADS-08

Options:

Design Load NAFS-08 Thermal Transmittance AAMA 507 NFRC 100

Condensation Resistance AAMA 1503 Condensation Performance Index CSA A4402 Sound Transmittance ASTM E 1425 ASTM E 1332

CW - 10 PSF / AW-15 PSF 50 PSF / 70 PSF "U" Factor Ø.39 to Ø.57 CRF frame -57 / CFR glass - 60 | frame-33 / | glass-60 STC-34 / OITC-29

Ø.10 Cfm/ft. sq.

## Factory Applied Powder Coated in Manufacturer's Standard Line of Colors

Fabrication and Installation: •Factory assembled and glazed

• Following all requirements for full warranty and performance requirements. • Submit Full Set of shop drawings, with all dimensions and clearance requirements,

Minimum 4 sets of shop-drawings and specification / warranty / installation methods. Provide color chart for selection by Owner. • All Required fasteners for location and building materials / conditions.

Provide General Contractor and Metal Building Fabricator All pertinent information needed, for Rough Openings and required support and anchorage.

Contractor / Installer to follow all requirements for installation and warranty compliance, established by the Window Manufacturer.

## **Interior Finishes and Trims**

## Garage:

Exposed metal building componets

 $\left[1
ight]$  Painted wood trims, in shapes indicated. Wood: Yellow Poplar, Min. 3/4" thick, by 1 1/2" to 2" in width Tight fitted jointry, filled and painted (1 primer -2 finished Semi-gloss)

## Office Areas:

Interior surfaces: Painted gypsum board Painted wood trims, in shapes indicated. Wood: Yellow Poplar, Min. 3/4" thick, by 1 1/2" to 2" in width Tight fitted jointry, filled and painted (1 primer -2 finished Semi-gloss)

All connection between trims and metal building / gypsum board closed with continuous bead of sealant.

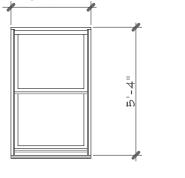
All voids between building construction and window / trim filled with low expansion type foam insulation. Low expansion foam sealant.

	U	JINDOW SCHEDULE				
WINDOW TYPE	MATERIAL	TYPE	UNIT DIMENSION	REMARKS		
1	Pre-finished Aluminum	Double Hung W/ Muntin Bars	3'-@" w × 5'-@" H	in Garage Area		
<u>la</u>	Pre-finished Aluminum	Double Hung W/ Muntin Bars	3'-0" w x 5'-0" H	In Office Areas		

Window Details at At Garage & Office Area

Window Type

Window Type



**Room Finish Schedule** Window Details

**Door & Hardware** 

Schedule & Details

Schedules & Details

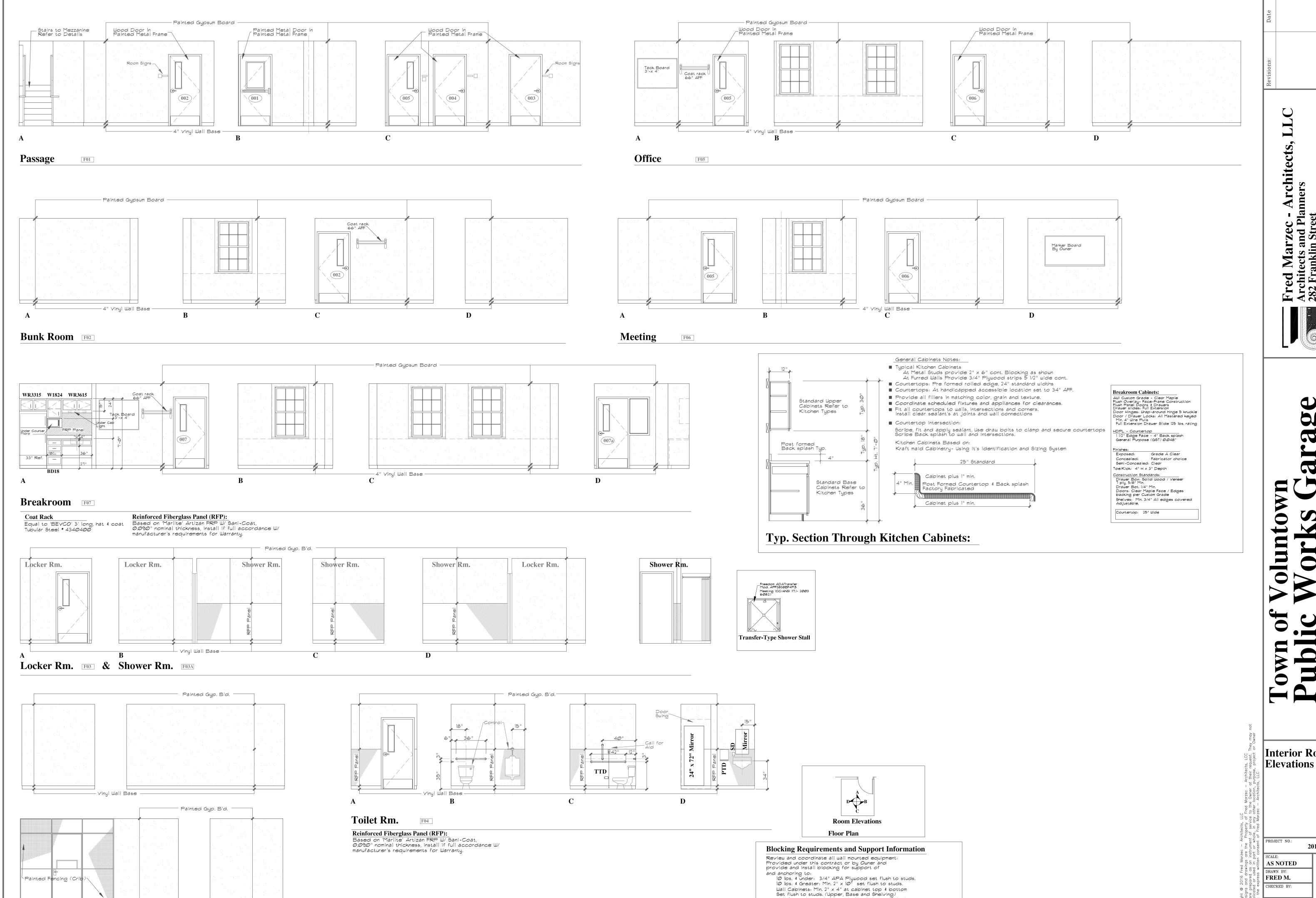
zec - Architects, Ind Planners

2015-10-08

AS NOTED

FRED M. CHECKED BY:

DATE: Revised March 20, 2018



-Vinyl Wall Base

Wall Stops (Doors): Provide 2" x 10" Wood Blocking at proper height and location for door sets.

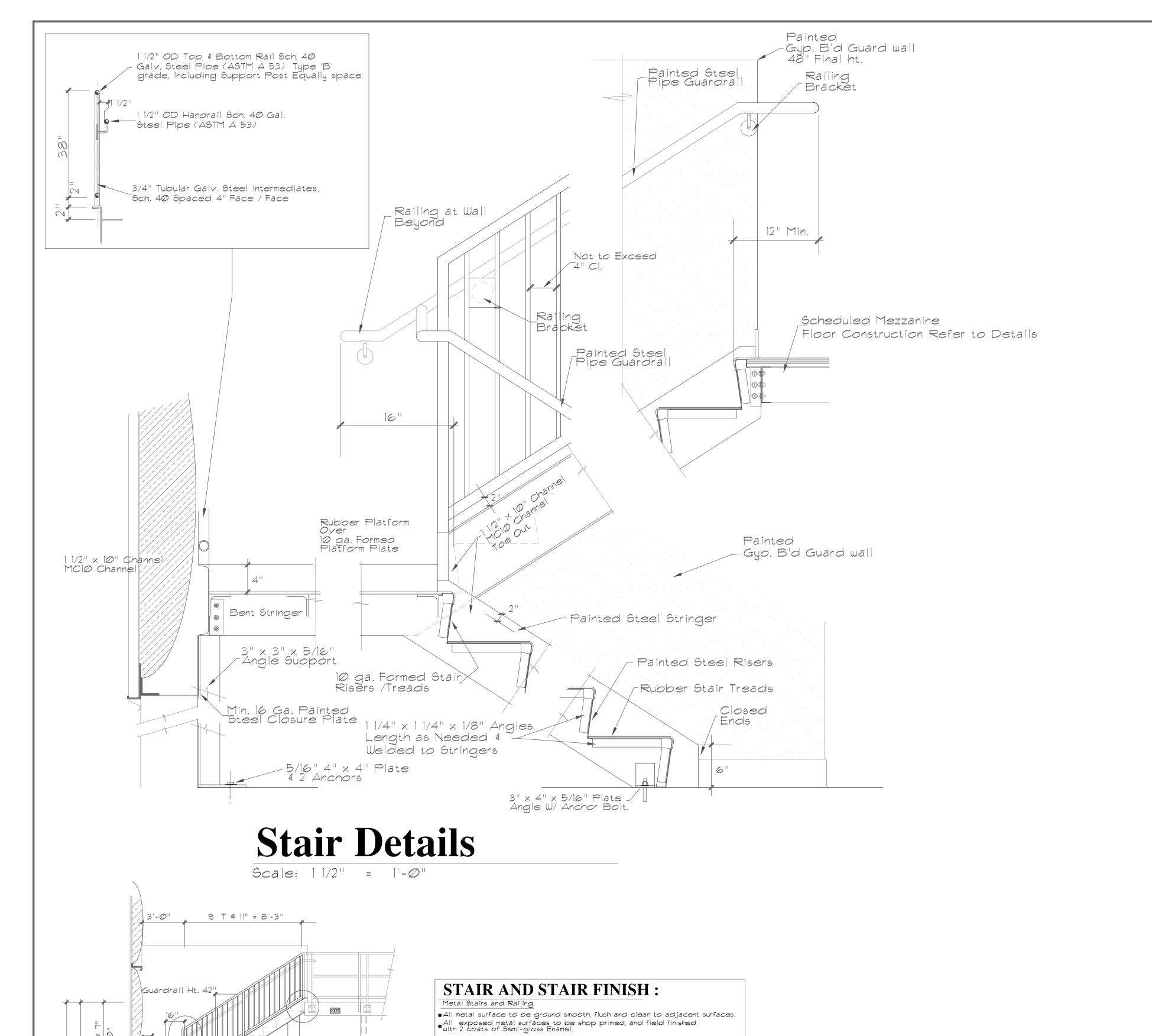
Fred Marzec - Architects, I Architects and Planners 282 Franklin Street Norwich, CT 06360 Tel: (860) 887-5870 Fax: (860) 887-5874 Email address: fred@fredmarzec.com

**Interior Room** 

2015-10-08 AS NOTED

CHECKED BY: DATE: Revised

Маrch 20, 2018 SHEET \_ OF \_



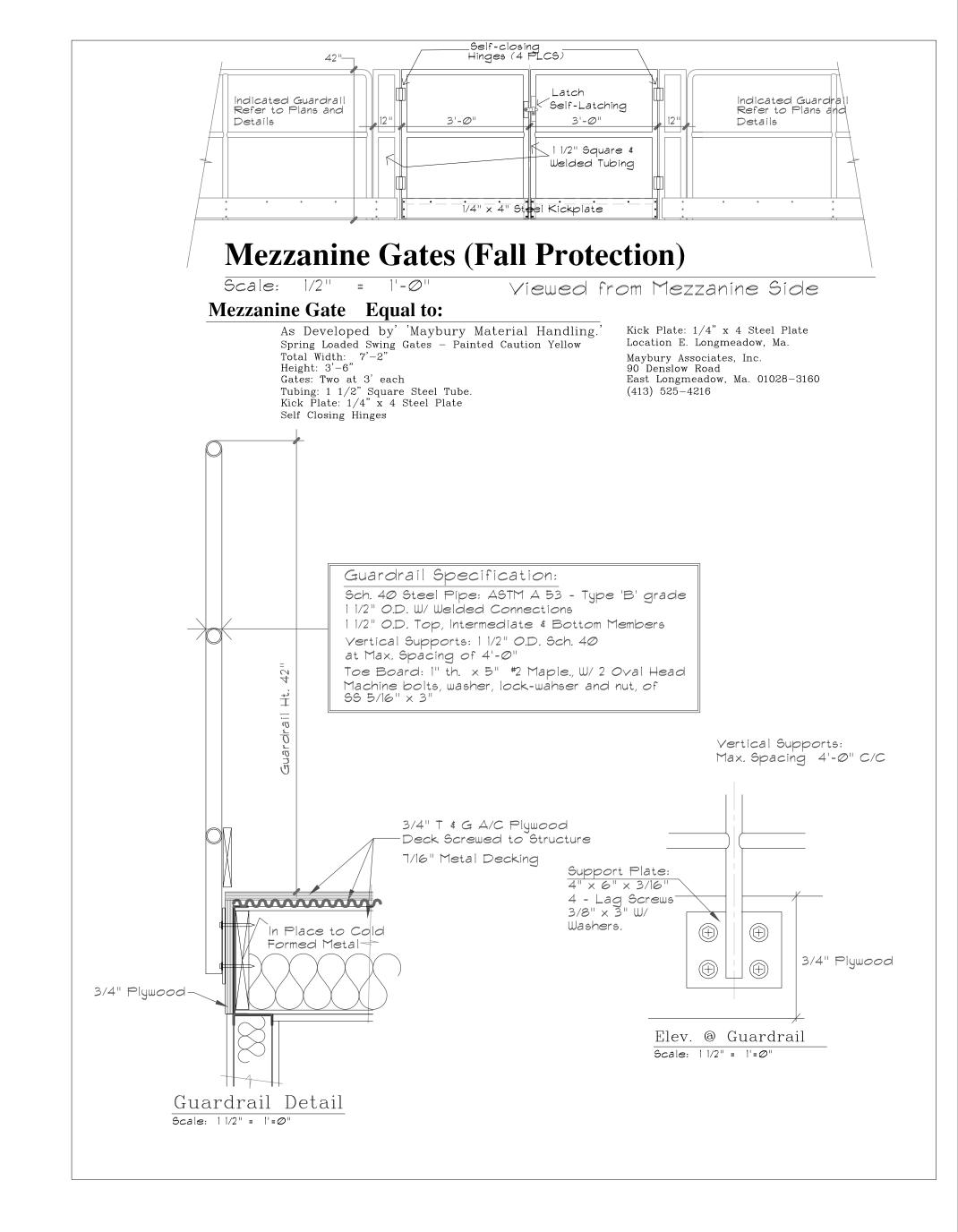
Stair Treads: Muson 'Disc-O-Tred' # 787 stair treads / nosing in color selected by Owner.

Platform and Landings: Munson Rubber Floor Tile 'Disc-O-Tlie' \* 788 24" square format, dot pattern with Koroseal Vinyl Lap Nosing # 140 .

Stair risers to be painted.

'Angle Support

**Section At Stairs** 



# Tool Crib

Tool Crib Enclosure:

Equal to: Miller Wire Works, Inc. No. 300M Heavy Duty Partition 2" diamond mesh No. 6 gauge wire.  $11/2" \times 3/4"$  Channel frame 1 1/4" x 5/8" Center Reinforcement  $2 \frac{1}{2}$ " x  $\frac{3}{8}$ " Flat bar intermediate post.  $3" \times 4.1$  LB. top capping channel with 'U' bolts. 1 13/4"  $\times$  1 3/4"  $\times$  1/8" Angle Corner Post. 2" square tube three way connection. 3" Channel line post with base plate approx. 20" on center for free standing partitions. Mortise type lock keyed outside recess latch inside. Keyed to Owner's requirements.

Finish: In manufacturers line of standard colors.

**Mezzanine Stair Sections and Details** Guardrail and Details Tool Crib Design

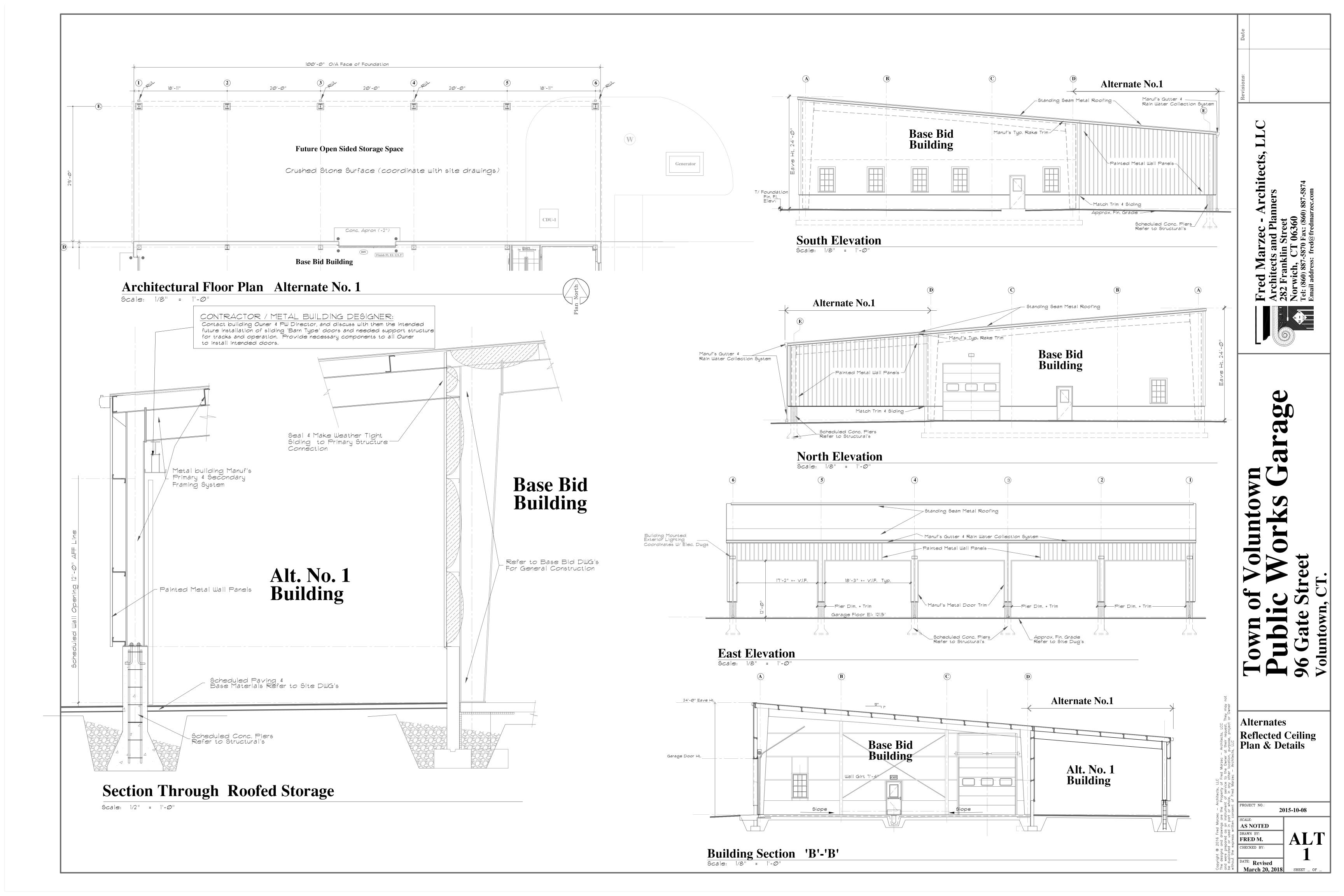
Fred Marzec - Architects, I Architects and Planners 282 Franklin Street
Norwich, CT 06360
Tel: (860) 887-5870 Fax: (860) 887-5874
Email address: fred@fredmarzec.com

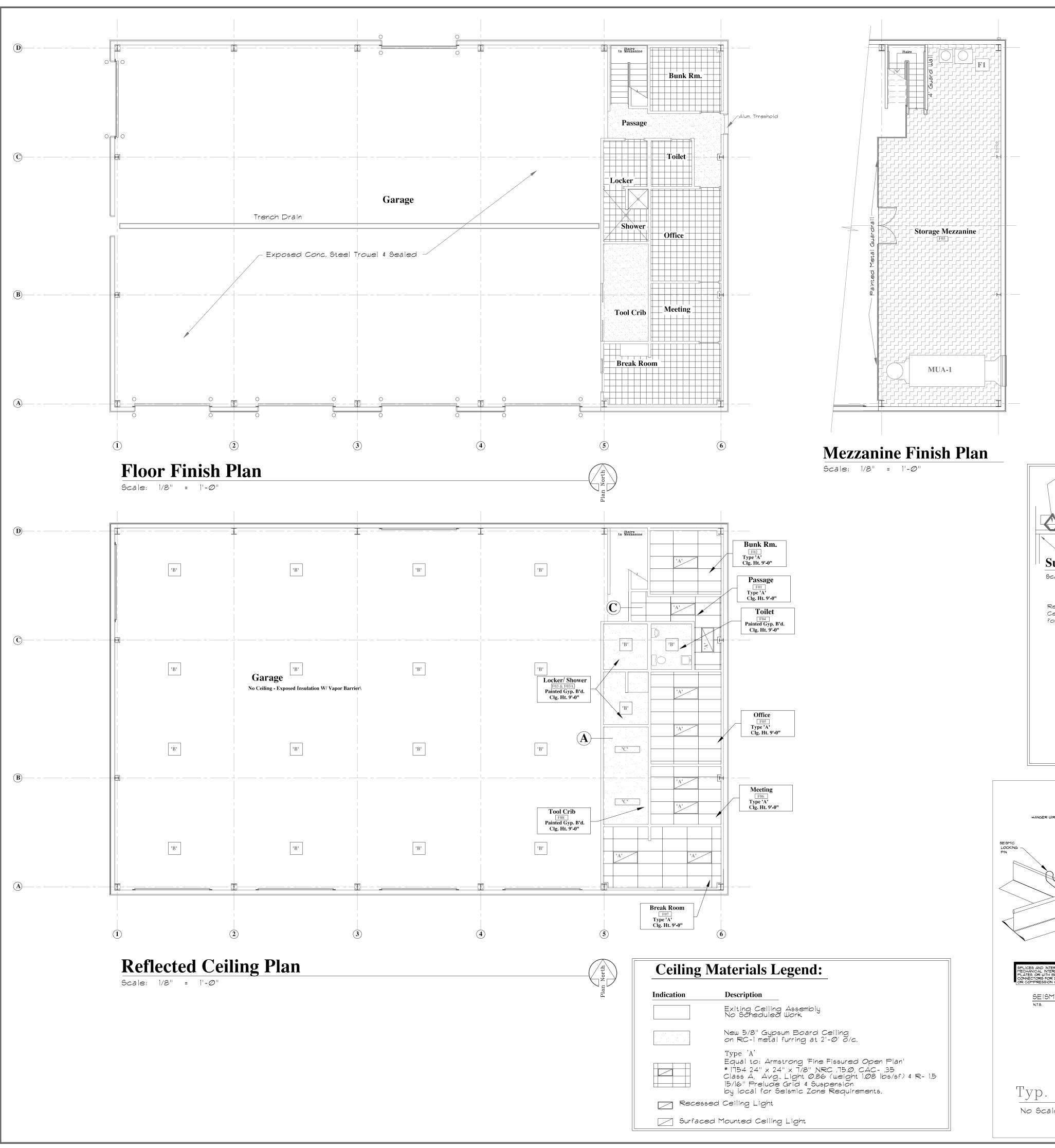
2015-10-08

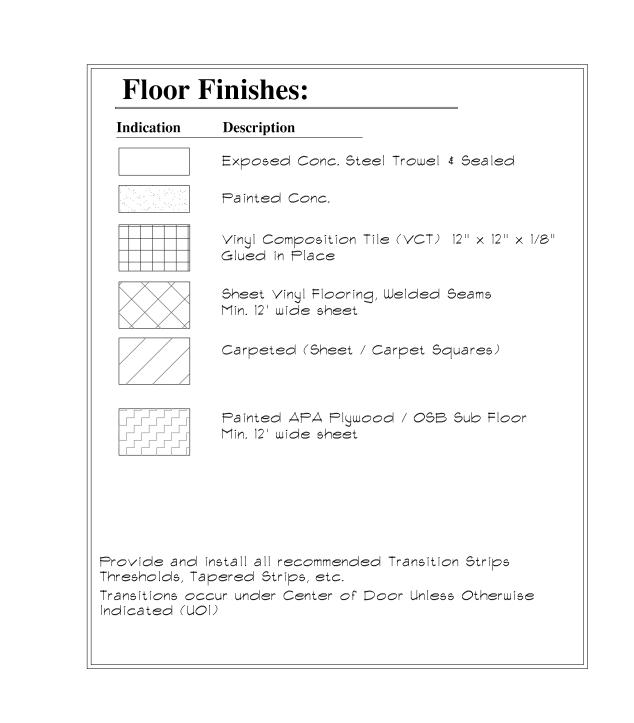
AS NOTED FRED M. CHECKED BY:

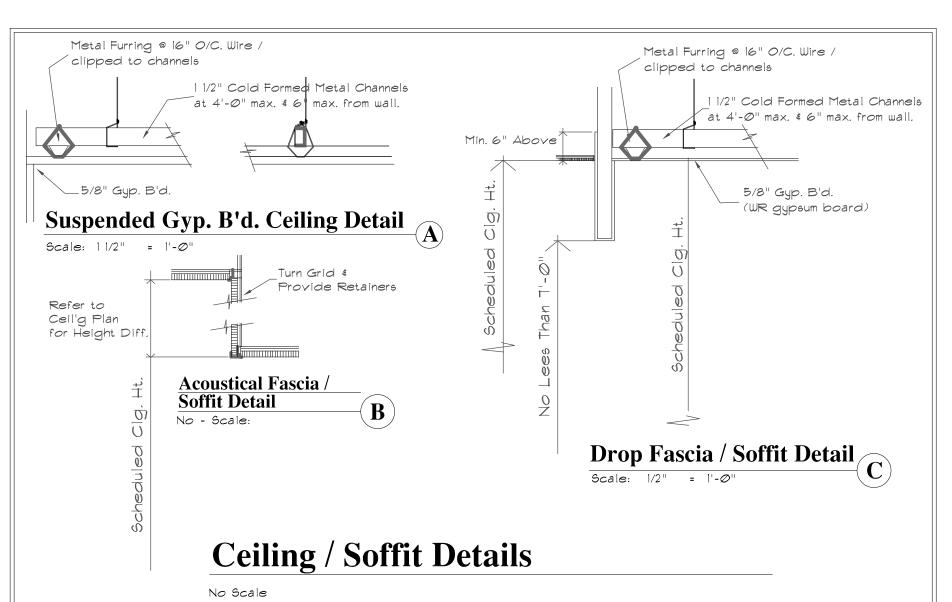
March 20, 2018 SHEET \_ OF \_

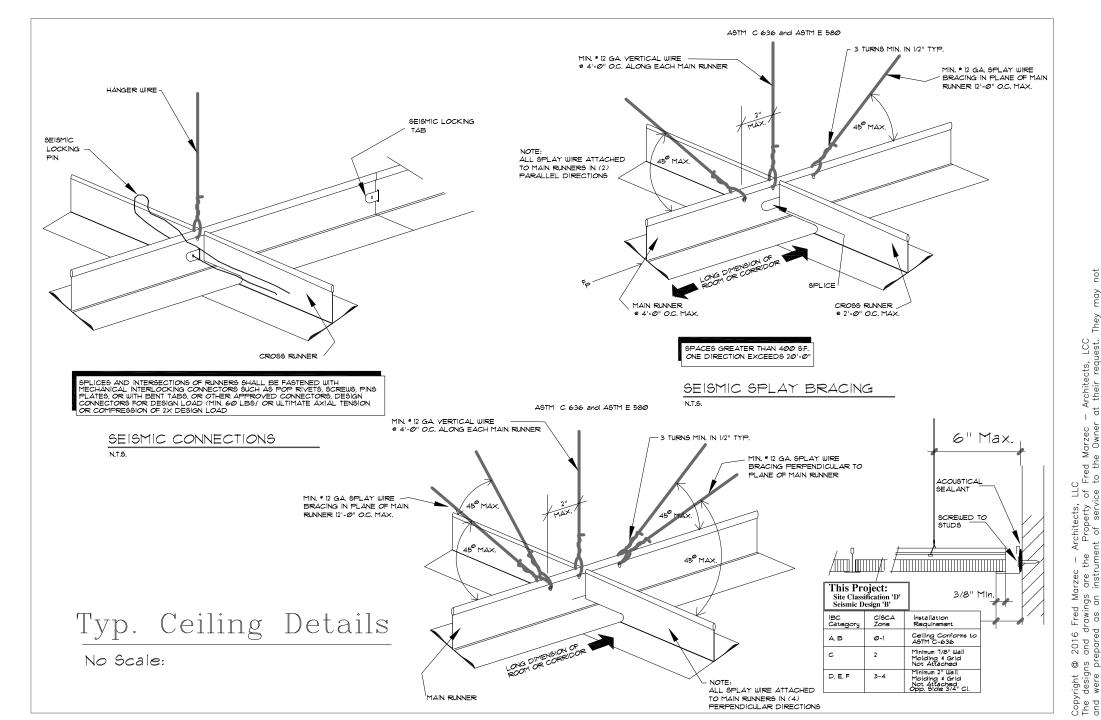
**A5** DATE: Revised











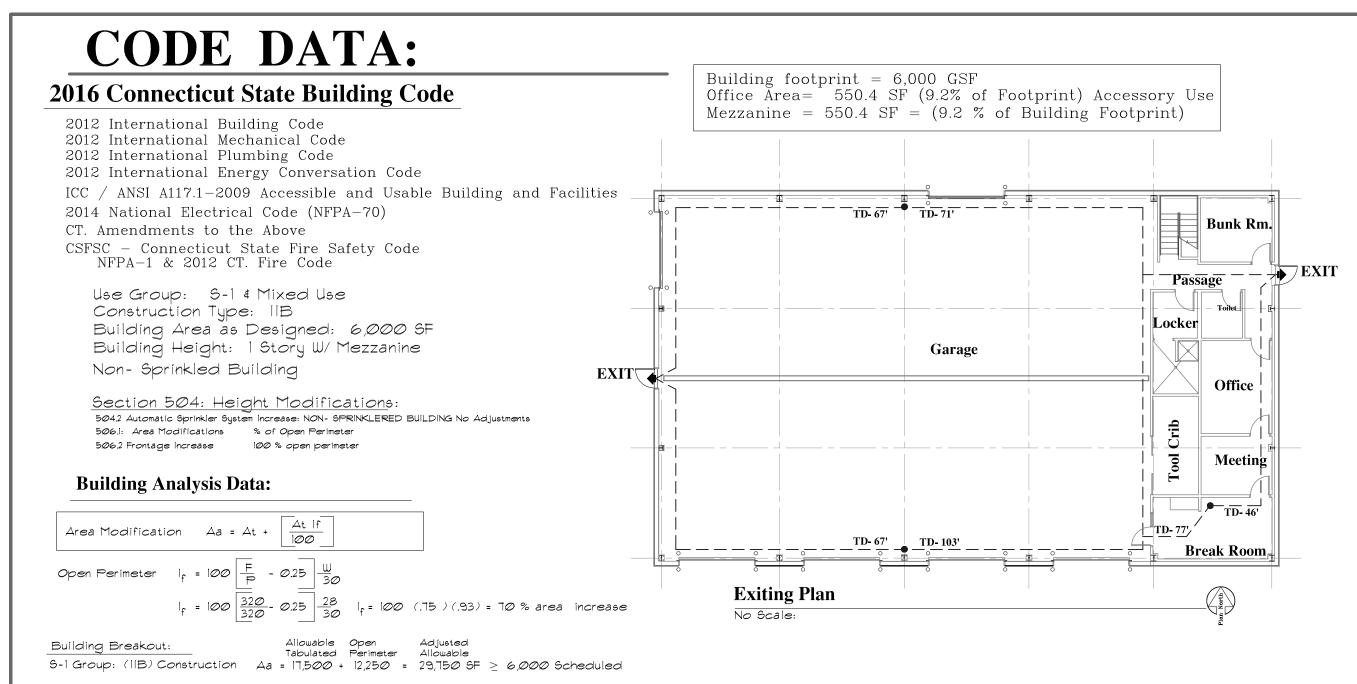
Floor Finished Reflected Ceiling Plan & Details

zec - Architects, Ind Planners

2015-10-08 AS NOTED

F-1 FRED M. CHECKED BY: DATE: Revised

Маrch 20, 2018 SHEET \_ OF \_



## Table 601

Occupant Load Design

Storage S-1 Group: = 500 Gross

Business 'B' Group = 100 Gross

Fire-Resistance Rating Requirements for Building Elements (hours)

	•		~						
Building Element	Type 1		Type II		Тура	e	Type 1 V	Тура	9 /
Danaing Liement	Д	В	Δ <sup>d</sup>	В	A d	В		Ad	В
Primary structrual frame (see Section 202)	3 *	2 ª	1	Ø	1	Ø	HT	1	Ø
Bearing Walls: Exterior Interior	3 ª 3	2 2 a	1 1	0	2	2 Ø	2 1/ HT	1	0
Non-Bearing walls and partitions: Exterior				See 1	able 6 <i>0</i> 2				
Non-Bearing walls and partitions: Interior	0	Ø	0	0	0	Ø	Sect. 602.4.6	0	Ø
Floor Construction and secondary members (see Section 202)	2	2	1	0	1	0	HŤ	1	0
Roof Construction and secondary members (see Section 202)	1 1/2 b	عرط إ	1 6,0	0	ع,ط إ	0	нт	عرط إ	Ø

### Table 602 Fire-Regist

Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance

Fire-Separation Distance	Type of Construction	Group H <sup>f</sup>	Group F-1, M, S-1 <sup>9</sup>	Group A, B, E, F-2, R, S-2, U
×< 5°	All	3	2	1
5 <u></u> ×< 1Ø	IA Others	3 2	2	1 d
1Ø≤×< 3Ø	IA, IB IIB, VB Others	2   	   Ø 	1 Ø 1
× ≥ 3∅	All	Ø	0	Ø

## Table 803.5

Interior Wall and Ceiling Finish Requirements by Occupancy

	SP	RINKLED	NON-SPRINKLERED			
GROUP	Vertical exits and ab	Exit access corridors and other exit ways	Rooms and cenclosed spaces	Vertical exits and ab exit 4 passageways	Exit access corridors and other exit ways	Rooms and enclosed spaces
∆-1 <b>∉</b>	А	В	С	A	A <sup>d</sup>	B <sup>e</sup>
A-3, A-4, A-5	В	В	С	Д	A <sup>a</sup>	С
3, E, M, R-1, R-4	В	С	С	Д	В	С
=	С	С	С	В	С	С
H	В	В	Ca	Д	Д	В
I-1	В	С	С	Д	Д	В
1-2	В	В	B hi	Д	Д	В
-3	Д	C 1	С	Д	Д	В
-4	В	Д	С	Д	Д	В
₹-2	С	С	С	В	С	С
₹-3	С	С	С	В	В	С
3	С	С	С	С	С	С
J	NO RESTRICT	I <i>O</i> NS		NO RESTRICTIONS		

<u> </u>	2012 Commentary	T
Use Group / Occupancy	Exceptions	Exceptions
All Occupancies	Buildings with floor level $\geq$ 55 feet above fire department access and occupant load $\geq$ 30	Airport control towers, open p structures, F-2
Assembly (A-1, A-3, A-4)	Fire area > 12,000 eq.ft. of fire area occupant load > 300 or fire area above /oelow level of exit discharge Multi-theater complex (A-I only)	None
Assembly (A-2)	Fire area >5,000 sq.ft. of fire area occupant load > 100 or fire area above /oelow level of exit discharge	None
Assembly (A-5)	Accessory areas >1,000 sq. ft.	None
Educational (E)	Fire areas > 12,000 sq.ft. or level of exit discharge	Each classroom has exterior do to grade.
Factory (F-1)	Fire area > 12,000 sq.ft., or building 3> stories of Combined fire area 24,000 sq.ft.	
Mercantile (M) Storage (S-1)	Woodworking >2,500 sq.ft. (F-1 only) Manufacturer (F-1) display and sale (M), storage (\$-1) of upholstered furniture or matresses.	None
	Bulk storage of tires>20,000 cu.ft. (5-1 only)	
High Hazard (H-1, H-2, H-3 H-4, H-5)	Sprinklers required	None
Institutional (1-1, 1-2, 1-3, 1-4)	Sprinklers required	Day Care at Level of exit dicharge and each classroom has exterior exit door.
Residential (R)	Sprinklers required	None
Repair Garages (6-1)	Fire areas > 12,000 sq.ft. or ≥ 2 stories (including basement) with fire area> 10,000 sq. ft. or repair garage servicing vehicles in basement or servicing commerical trucks/buses in fire area>5,000 sq. ft.	None
Parking garage (S-1)	Enclosed automobile parking Sprinklers required Commercial trucks/buses parking area > 5,000 sq.ft.	
Parking garage (S-2)	Fire Area > 12,000 sg.ft, pr fire area > 5,000 sg.ft, storage of commerical trucks/buses: or beneath other groups. (enclosed parking)	Not if beneath below Group R-3
Covered and open mails (402.5)	Sprinklers required	Attached open parking structures
High rises (403.3)	Sprinklers required	Open garages: certain telecommuniations buildi

	Travel Distance:	
Occupancy	without sprinklers	with s
A, E, F-1, 1-1, M, R, S-1	200	250 <sup>b</sup>
1-1	Not Permitted	250°
В	200	300°
F-2, S-2, U	300	400°
H-1	Not Permitted	75 °
H-2	Not Permitted	100°
H-3	Not Permitted	150°
H-4	Not Permitted	175 °
H-5	Not Permitted	200°
I-2, I-3, I-4	Not Permitted	200°

	Per Occupant
Accessory storage areas, mechanical equipment room	300 Gross
Agricultural Buildings	300 Gross
Aircraft hangers	500 Gross
Airport Terminal Baggage Claim Baggage Handling Concourse Waiting	20 Gross 300 Gross 100 Gross 15 Gross
Assembly Gaming floors (keno, slots, etc.) Exhibt Gallery and Museum	11 Gross 30 net
Assembly with fixed seats	per Sect. 1004.4
Assembly (without fixed seats)  Concentrated (chairs only - not fixed)  Standing  Un-concentrated (tables and chairs)	7 net 5 net 15 net
Bowling Centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business	100 gross
Courtrooms - other than fixed seating areas	40 gross
Daycare	35 gross
Dormitories	50 gross
Educational: Classroom Shops and other vocational room areas	20 net 50 net
Exercise rooms	50 gross
Group H-5 Fabrication and manufacturing Areas	200 gross
Industrial areas	100 gross
Institutional areas Inpatient treatment areas Outpatient areas Sleeping areas	240 gross 100 gross 120 gross
Kitchen, Commercial	200 gross
Library Reading rooms Stack areas	50 gross 100 gross
Mall Buildings -covered and open	See Section 402.8.
Mercantile Areas on other floors Basement and grade floor areas Storage, stock, shipping areas	60 gross 30 gross 300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools Rink and pool Decks	50 gross 15 gross
Stages and Platforms	15 net
	500 gross

Occupancy - Based on table 1004.1.2

Occupancy

Floor Area in Sq. Ft. Per Occupant

## **GENERAL NOTES and INFORMATION**

All items of work in these "CONTRACT DRAWINGS" (Plans and Specifications), either drawn, noted of otherwise implied shall be considered a part of these documents. For any areas or items in question, the General Contractor shall contact the ARCHITECT in writing before submitting their bid, Otherwise, the ARCHITECT'S interpretation/ interpolation must be accepted. Written clarification shall follow procedures prior to bidding as covered in the Project Manual.

This Contractor shall coordinate with subcontractors, suppliers, and other trades as to who furnishes and who finishes items for a complete assembled job. Categorizing the Contract Documents by related facilities services (trades) does not relieve the General Contractor of their coordination.

This listing and compiling of "GENERAL NOTES" shall pertain to all documents, sheets, and / or plans entailing the

The work described within these Contract Documents, outlines the work to construct the new work as shown on drawings.

This Contractor shall be responsible for the indicated new construction work.

This Contractor shall be responsible to field review dimensions of scheduled new construction, verifying that scheduled new work will properly fit into indicated surroundings.

Should discrepancies be found in drawing areas, the Architect shall be immediately notified for directions, and or coordination, prior to performing the work. Commencement of work without notification to the Architect will constitute acceptance of existing conditions and scheduled work, without request of Extra's for the conflict or work.

acceptance of existing conditions and scheduled work, without request of Extra's for the conflict or work.

All penetrations, through floors, walls and ceilings shall be kept to within the required tolerances of the items making the penetration, and shall be sealed with approved materials around the penetration. All penetration sealing materials occurring at the fire or smoke rated barriers shall be sealing materials meeting the requirements of the rated items and UL

This Contractor and his sub-contractor shall provide protection to adjacent finishes, equipment, furnishings, etc., while their respective work is in progress to avoid damage to the adjacent item (s)

This Contractor is to be aware that new work required may be of size or shape that it will not be possible to deliver into the building (s) through doors, if the item (s) are fully assembled. Sectionalizing for erection within the building

will be required as well as maintaining any and all warrantees, ratings, labels etc..

Mechanical, Electrical, Plumbing, etc., work will be required to be installed into walls,

these Contract Documents and these General Notes.

For Doors, Frames, and Hardware Scheduled work, this Contractor shall field verify all doors, transom panels and glass sizes prior to ordering. Special attention on field verification of existing items is IMPERATIVE.

this Contractor shall notify the ARCHITECT 10 days in advance of scheduled work for direction and or corrective actions.

In all areas of scheduled work (i.e. doors, walls, floors ceilings, etc.) this Contractor shall field review and layout all components of the scheduled work prior to the actual construction work scheduled to field verify the ability to provide and install scheduled work. Should interference's occur which could affect the installation of scheduled work,

This Contractor shall be responsible to field verify all existing conditions against scheduled work, and report all discrepancies conflicts and potential problems to the ARCHITECT at least 24 hrs. prior to commencement of scheduled work, commencement of scheduled work without notification to ARCHITECT indicates acceptance of conditions and construction, for future, counters, ceilings etc., to mention a few instances. This work is to be fully coordinated by the Contractor as addressed within and no additional cost or time will be forwarded to Owner, the Contractor accepts the conditions and construction requirements.

Wood studs and gypsum board walls dimensioning are to center of wall based on actual thickness Coordinate final height of tenant walls and tenant separation walls for termination's

Fire stop all penetrations through all walls

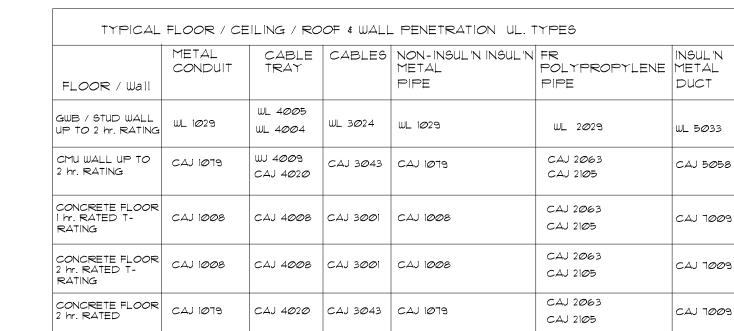
requirements of acceptable ratings for penetrations.

## **CONSTRUCTION SAFETY & HEALTH**

This Contractor shall shall exercise proper precautions and effect all applicable safety measures required for the protections of person and/or property and shall be responsible for all injuries and/or damage to all persons and/or property either on or off the site, which occurs as a result of his prosecution of the work under this Contract. The safety provisions of all applicable local/state/federal laws and building and construction codes shall be observed and the Contractor shall take or cause to be taken such additional safety measures as the Owner may determine to be reasonable and necessary.

The Contractor shall maintain accurate records of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work arising out of and in the course of employment on the work under this Contract, in accordance with the requirements of all local/state/federal regulations. The Contractor shall promptly furnish the Owner with copies of the above records if requested.

This Contractor shall indemnify and hold harmless, the Owner, the firm of Fred Marzec - Architects, LLC., it's employees and their consultants from any and all claims for damages resulting from personal injury, death, and/or property damage, suffered and alleged to have been suffered by any person as a result of any work conducted under this Contract.



KEY NOTES:

 Penetration within wall cavity
 The fire stopping system for this combination of penetrant, wall, floor assembly and fire rating is an engineering judgment by the fire stopping manufacturer based upon U.L. system listed.

fire stopping manufactur 4. Aluminum cable tray.

5. Steel or aluminum cable tray.

6. For floor penetrations not enclosed above and below the floor with shaft wall. Horizontal Rated Barrier Wall Construction Fire Rated Sealant ( refer to plans) ⊣Fíre Rated Sealant -Penetration material (pipes, conduits, ductwork, etc.) Fire Safing Insulation — |Metal Stud / Wood stud | Sleeve Material As Wall Construction Required by UL assembly (refer to plans for type and rating). IFiller Material as |Required by UL Assembly TYPICAL WALL TERMINATION'S TYPICAL WALL / FLOOR

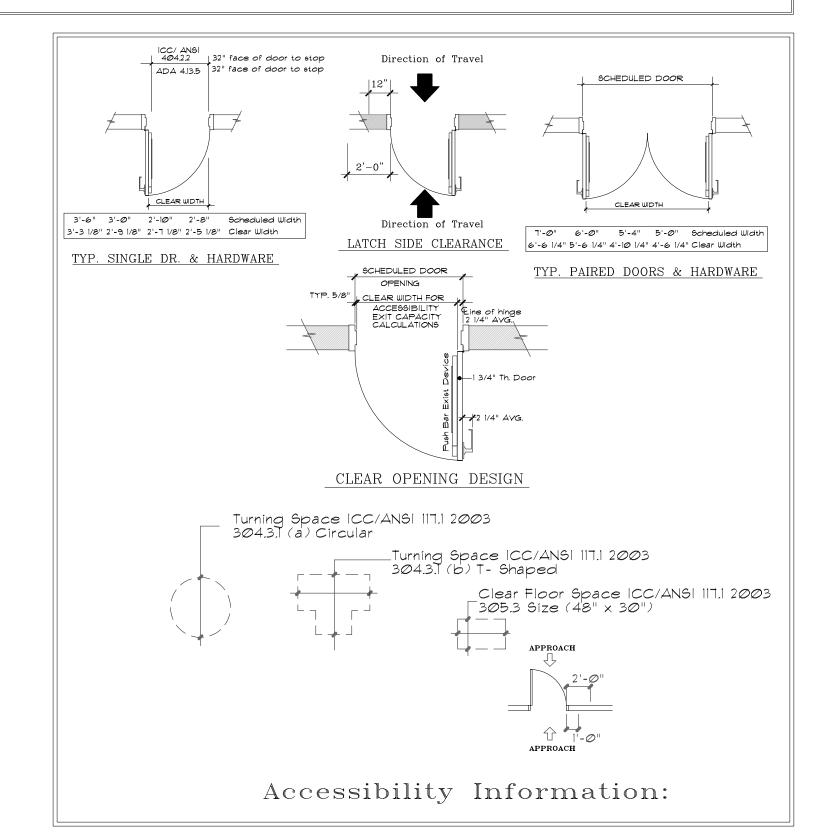
PENETRATIONS

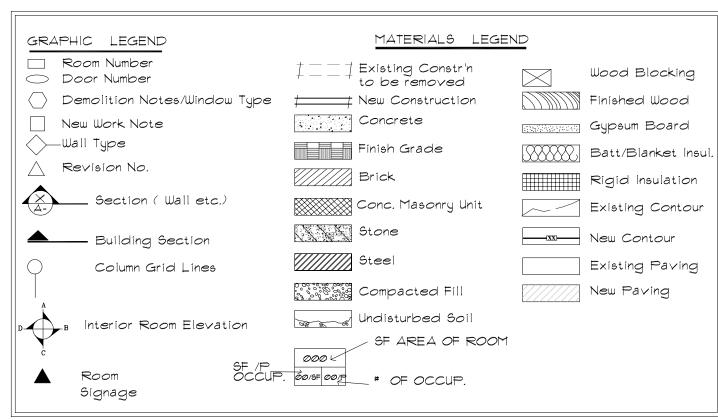
TYPICAL FIRE RATED PENETRATIONS
NO SCALE

NO SCALE
NOTE: Adjust details as required to obtain U.L. ratings, for indicated construction. Follow manufacturer's recommendations for approved assemblies.

## GENERAL NOTE:

The above indicated assemblies are generic only, and are provided for typical conditions. This Contractor and his subcontractors shall be responsible to review the complete set of "Contract Documents" for each penetration condition, identifying each type of construction to be penetrated and each type of material (piping, ductwork, plumbing, electrical conductors, etc.,) that is to pass through rated rated assemblies. Provide the proper approved U.L. rated Firestops to meet the construction and rating. This Contractor shall submit for review a copy of the selected manufacturer's drawing showing all the proper installation requirements and materials to meet the rating needs, and construction.

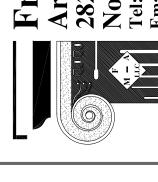




Revisions: Date

zec - Architects, LLC
nd Planners
Street
06360
Fax: (860) 887-5874

Architects and Plann 282 Franklin Street Norwich, CT 06360 Tel: (860) 887-5870 Fax: (860) 88



# Town of Voluntown Public Works Garage 96 Gate Street

Code Data & General Information

PROJECT NO.:

2009.02-18

SCALE:
AS NOTED

DRAWN BY:
FRED M.
CHECKED BY:

G1

CHECKED BY:

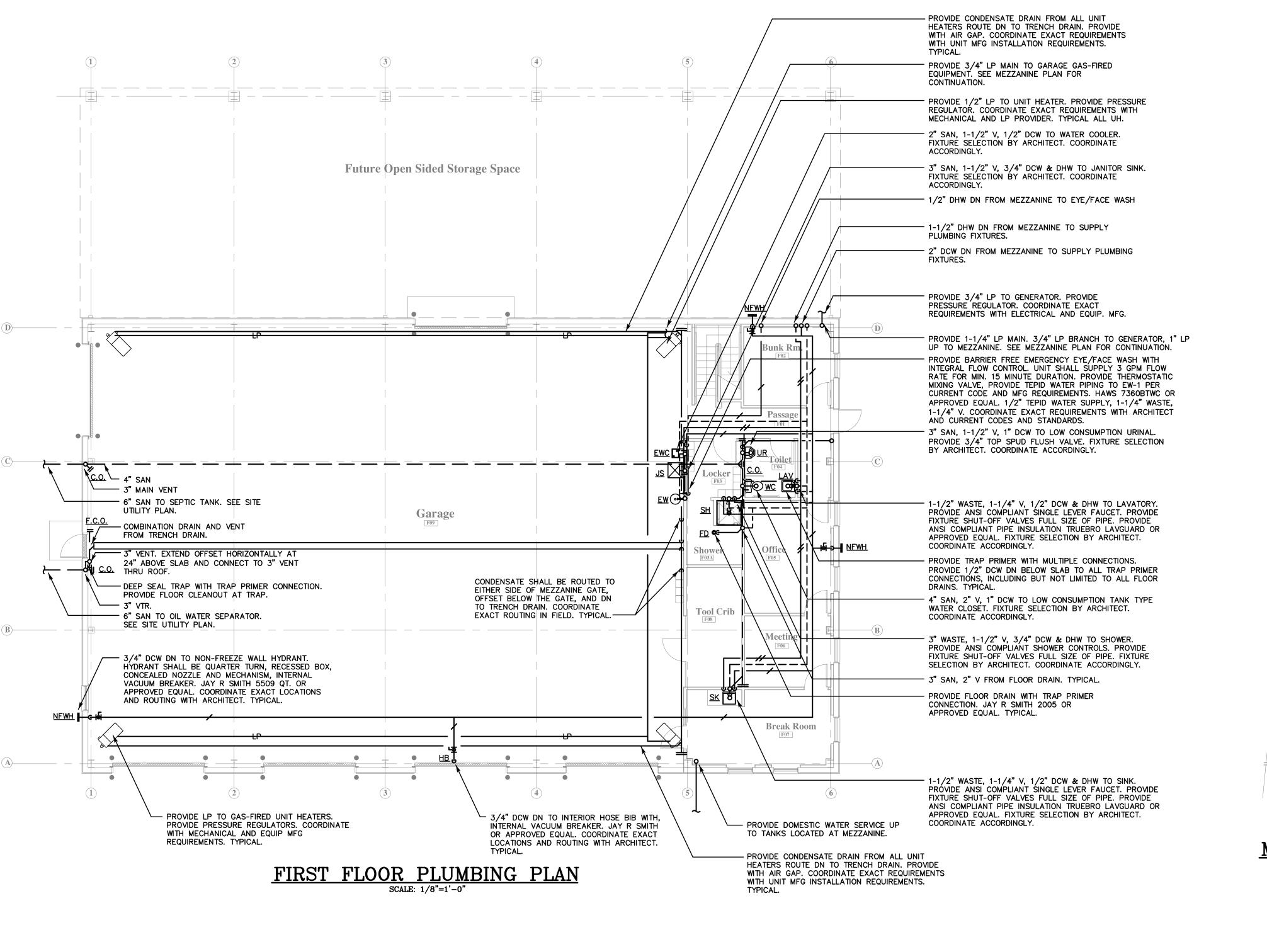
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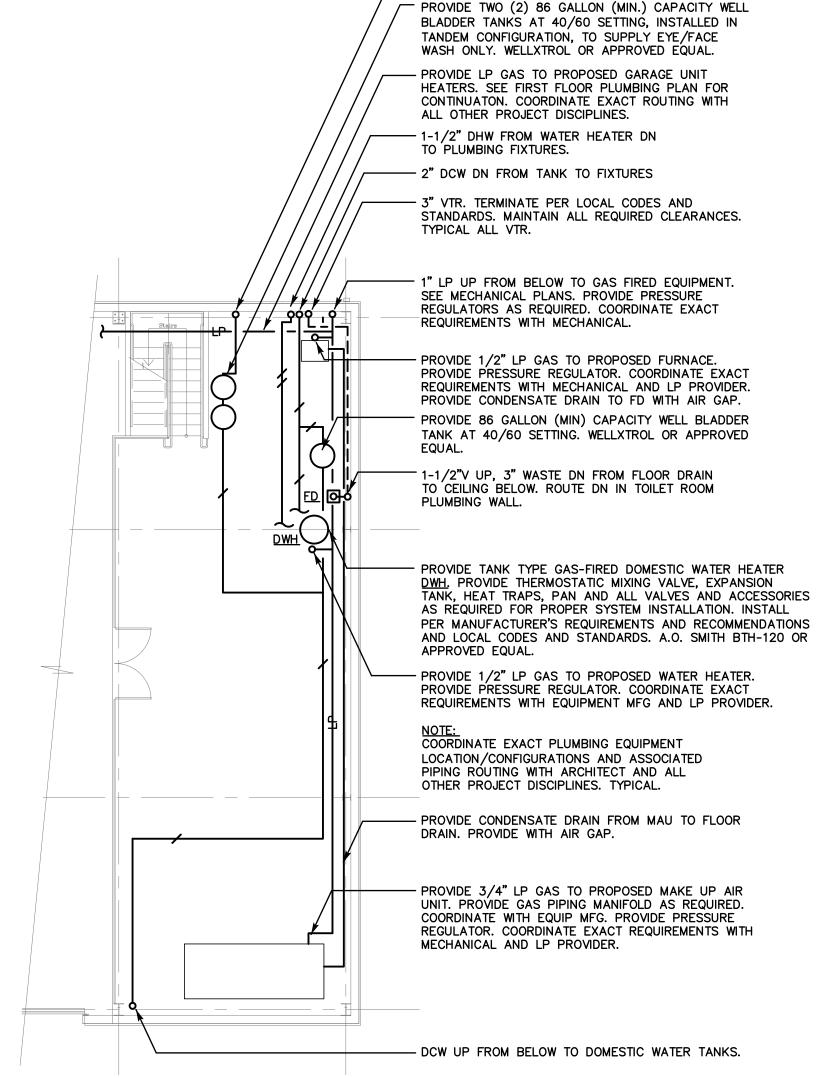
CHECKED BY:

DATE: Revised

March 20, 2018

SHEET



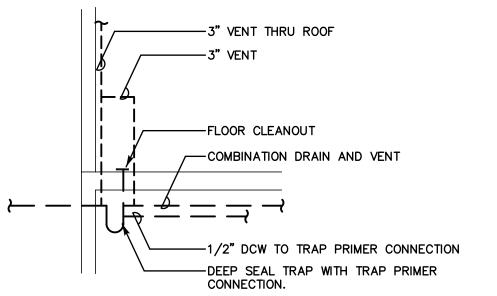


- 1/2" DCW DN TO EYE/FACE WASH

## MEZZANINE PLUMBING PLAN

LP NOTE:
LP PIPE SIZES INDICATED ON PLAN ARE BASED UPON TABLE 6.3 (C) OF THE NATIONAL FUEL GAS CODE. COORDINATE ÉXACT REQUIREMENTS AND SIZING WITH LP PROVIDER AND EQUIPMENT MFGS. PROVIDE AND INSTALL IN STRICT ACCORDANCE WITH NFPA 54 AND LOCAL AHJ

CONTRACTOR SHALL COORDINATE/FINALIZE EXACT WELL BLADDER TANK REQUIREMENTS AND CAPACITIES WITH TANK MANUFACTURER/SUPPLIER AND WELL CONTRACTOR. PROVIDE AND INSTALL IN STRICT ACCORDANCE WITH MFG REQUIREMENTS AND RECOMMENDATIONS AND CURRENT LOCAL CODES AND STANDARDS. PROVIDE ALL PIPING, VALVES, FITTINGS, SWITCHES AND ACCESSORIES AS REQUIRED FOR FULL AND PROPER INSTALLATION. TYPICAL.

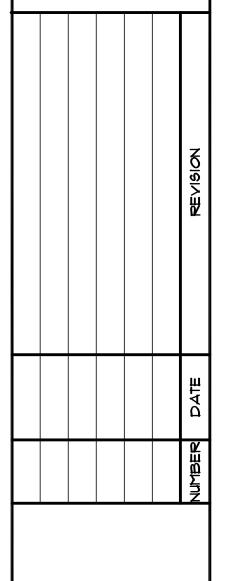


## DETAIL AT COMBINATION D & V DEEP SEAL TRAP

## **PLUMBING NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
- . ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
- 72 HOURS IN ADVANCE WITH THE OWNER'S REPRESENTATIVE.
- . CONTRACTOR SHALL PROVIDE CLEANOUTS FOR PROPOSED SANITARY PIPING AS REQUIRED PER CURRENT APPLICABLE CODES AND STANDARDS. TYPICAL.
- 5. ROUTING OF ALL PIPING SHALL BE COORDINATED WITH STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL
- 6. PROVIDE ALL PLUMBING FIXTURES AS SHOWN, PROVIDE ALL PIPING, FITTINGS AND ACCESSORIES AS REQUIRED FOR FULL AND PROPER INSTALLATION PER MANUFACTURER'S INSTRUCTIONS AND CURRENT APPLICABLE CODES AND STANDARDS. FIXTURES AS PER ARCHITECT. TYPICAL.
- 3. ALL SERVICE DISRUPTIONS MUST BE SCHEDULED A MINIMUM OF 7. PROVIDE EARTHQUAKE SHUT OFF VALVE AND GAS REGULATORS AS REQUIRED ON GAS SERVICE. COORDINATE EXACT REQUIREMENTS WITH LP PROVIDER.

8. INSULATE DOMESTIC WATER AND WASTE PIPING PER CURRENT CODES AND STANDARDS. TYPICAL.



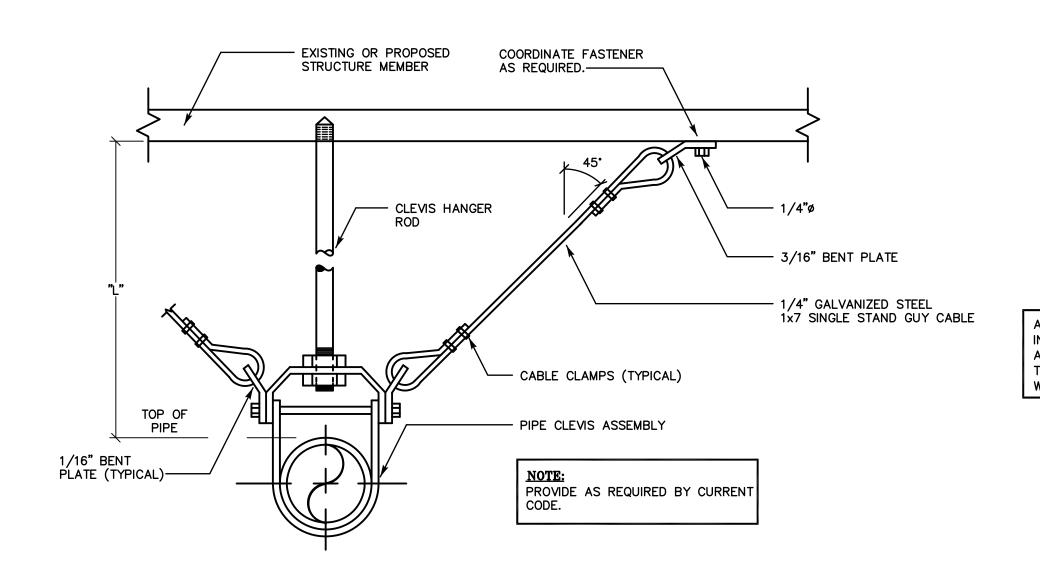
A A A 0 2

TOWN PUBLIC 96 GATE

LA PROJECT NO. PROJ. ENGINEER

SHEET NO.

**P**-1



TYPICAL SEISMIC RESTRAINT
ASSEMBLY OF SUSPENDED PIPING

--- TO GAS SUPPLY MAIN

— DIRT LEG, 12" LONG, FULL PIPE SIZE

TYPICAL CONNECTION TO

GAS FIRED EQUIPMENT

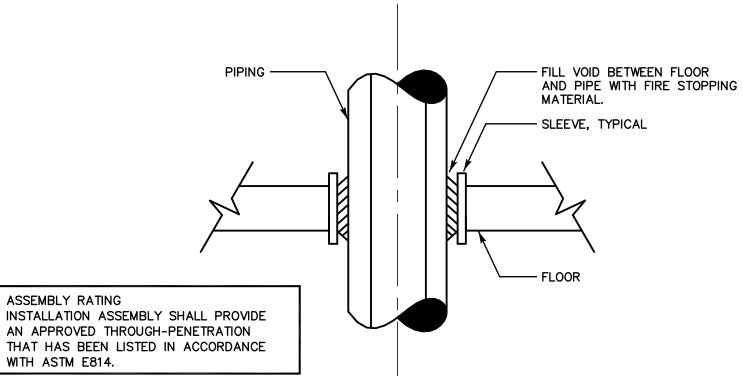
GAS SHUT-OFF -

- GAS PRESSURE REGULATOR

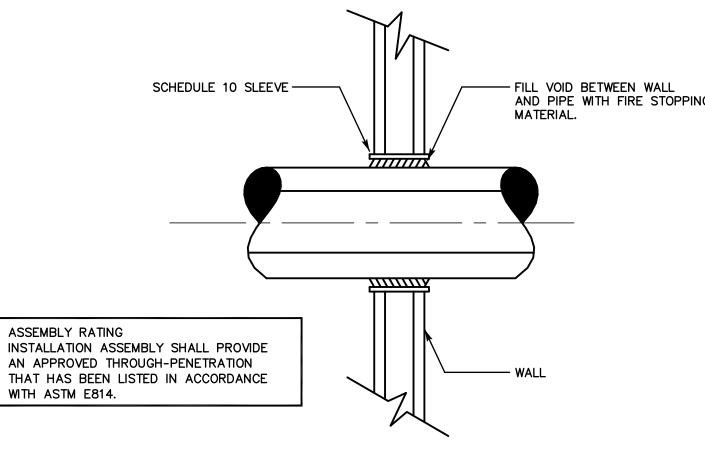
- CONNECT TO GAS FIRED

EQUIPMENT GAS TRAIN

AS REQUIRED



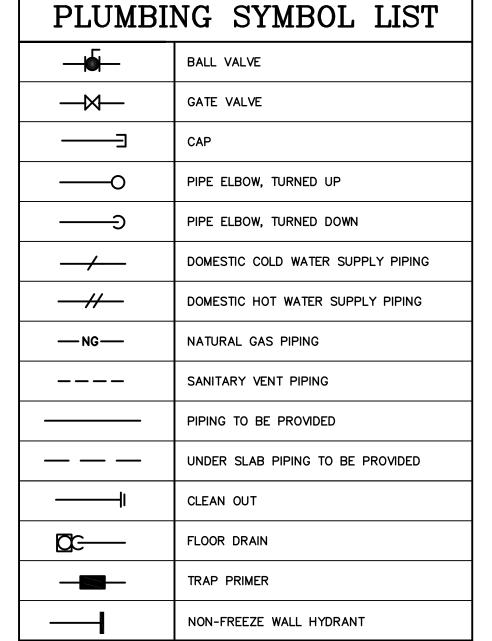
# TYPICAL FLOOR PIPE PENETRATION FIRE STOPPING DETAIL



## FIRE STOPPING DETAIL

# AND PIPE WITH FIRE STOPPING

# TYPICAL WALL PIPE PENETRATION



## PLUMBING ABBREVIATIONS

C.O.	CLEANOUT	
DCW	DOMESTIC COLD WATER SUPPLY	
DHW	DOMESTIC HOT WATER SUPPLY	
DN	DOWN	
DWH	DOMESTIC WATER HEATER	
ET	EXPANSION TANK	
F.C.O.	FLOOR CLEANOUT	
FD	FLOOR DRAIN	
GAL	GALLON	
GPH	GALLONS PER HOUR	
GPM	GALLONS PER MINUTE	
JS	JANITOR'S SINK	
LAV	LAVATORY	
NFWH	NON-FREEZE WALL HYDRANT	
NTS	NOT TO SCALE	
SAN	SANITARY	
SH	SHOWER	
SK	SINK	
TEMP	TEMPERATURE	
TM	THERMOSTATIC MIXING VALVE	
TYP	TYPICAL	
UR	URINAL	
i		

SANITARY VENT

WATER CLOSET

WALL CLEAN OUT

SANITARY VENT THROUGH ROOF

VTR

WC

W.C.O.

## PLUMBING GENERAL NOTES

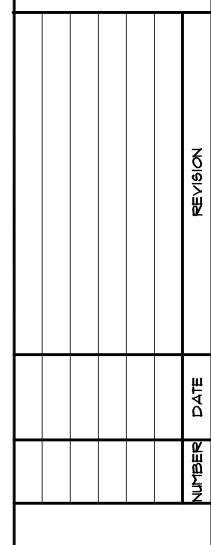
- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
- PROVIDE FIXTURE SHUT-OFF VALVES AND P-TRAPS FOR ALL FIXTURES PROVIDED. PROVIDE SANITARY, WASTE AND DOMESTIC WATER PIPING AS

DRAINS, ETC., MAY NOT BE INDICATED.

- REQUIRED FOR ALL FIXTURES PROVIDED. 3. REFER TO AND CAREFULLY CHECK ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND DETAILS, NOTING LOCATIONS WHERE WALLS.
- PARTITIONS, CEILINGS AND OTHER SURFACES ARE FURRED; LOCATION OF PIPE SLEEVES, LOCATIONS OF PIPE SHAFTS AND CONFLICTS WITH WORK OF OTHER TRADES AND ARRANGE WORK ACCORDINGLY. FURNISH ALL OFFSETS, FITTINGS, VALVES, DRAINS, ETC., REQUIRED TO MEET SUCH CONDITIONS. 4. DUE TO SCALE OF DRAWINGS, ALL REQUIRED OFFSETS, FITTINGS, VALVES,
- 5. ALL PIPING PASSING THROUGH FIRE RATED WALLS SHALL BE PROVIDED WITH SCHEDULE 40 STEEL PIPE SLEEVES AND SPACE BETWEEN EXTERIOR OF PIPE AND INTERIOR OF PIPE SLEEVE PACKED WITH A FIRE RATED MATERIAL EQUAL TO THE RATING OF THE WALL.
- 6. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM, INCLUDING ALL NECESSARY MATERIAL, LABOR AND
- . CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING CODES.
- 8. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY".
- . WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN, AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. OWNER RESERVES THE RIGHT TO HAVE THE ARCHITECT OR ENGINEER OF HIS CHOICE PREPARE ANY REDESIGN WORK.
- 10. CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT WITH DIVISION 16.
- 1. ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH
- STATE AND LOCAL GOVERNING AUTHORITIES. 12. CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR PIPE SLOPE AND
- 13. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT
- WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES. 14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT RECOGNIZED:
  - A. INTERNATIONAL BUILDING CODE B. CONNECTICUT BUILDING CODE AND SUPPLEMENT.
  - C. MECHANICAL CODE D. ASTM & ANSI STANDARDS
  - . PLUMBING CODE
- F. LIFE SAFETY CODE 15. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND PAYMENT FOR ALL
- UTILITIES DAMAGED DURING CONSTRUCTION. 16. CONTRACTOR TO CONFIRM PIPE LOCATIONS, ELEVATIONS AND SIZES BEFORE ANY WORK IS STARTED. IF ANY DISCREPANCIES ARE FOUND, NOTIFY ENGINEER
- BEFORE PROCEEDING WITH WORK. 17. PROVIDE WATER SERVICE SHUT-OFF VALVES ON WATER SUPPLY IMMEDIATELY ADJACENT TO PLUMBING FIXTURES.
- 18. PROVIDE SEISMIC BRACING OF ALL PLUMBING PIPES PER THE CONNECTICUT
- BUILDING CODE. 19. PROVIDE WATER HAMMER ARRESTERS FOR ALL FLUSH VALVES, SIZE AND
- LOCATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 20. FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION OF PROVIDED EQUIPMENT.
- 21. ALL PIPES THAT PENETRATE WALL, FLOORS AND CEILINGS IN FINISHED AREAS
- SHALL RECEIVE CHROME PLATED METAL ESCUTCHEONS. 22. ALL SHOP DRAWINGS OF INDIVIDUAL COMPONENTS ARE TO BE SUBMITTED
- AS A COMPLETE PACKAGE. 23. ALL SHOP DRAWINGS OF RELATED COMPONENTS SHALL BE SUBMITTED
- AS A COMPLETE PACKAGE.
- 24. ALL WORK IN INTERIOR FINISHED SPACES SHALL BE CONCEALED BEHIND WALLS, ABOVE CEILINGS OR UNDER THE FLOOR. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAINTING AND/OR REPLACEMENT OF FINISHES AS REQUIRED TO PERFORM WORK.
- 25. WRITTEN REQUESTS FOR PLANNED SHUTDOWN OR INTERRUPTION OF BUILDING SERVICES, SYSTEMS OR EQUIPMENT SHALL BE MADE IN WRITING 72 HOURS PRIOR TO START OF THE REQUESTED SHUTDOWN PERIOD.
- 26. SUPPORT PIPING ABOVE SUSPENDED CEILING, FROM CONSTRUCTION ABOVE, AS CLOSE AS POSSIBLE TO BOTTOM OF SLABS, BEAMS, MAINTAINING MAXIMUM HEADROOM AT ALL TIMES.
- 27. PROVIDE CLEANOUTS PER PLUMBING CODE.

STATE AND LOCAL GOVERNING AUTHORITIES.

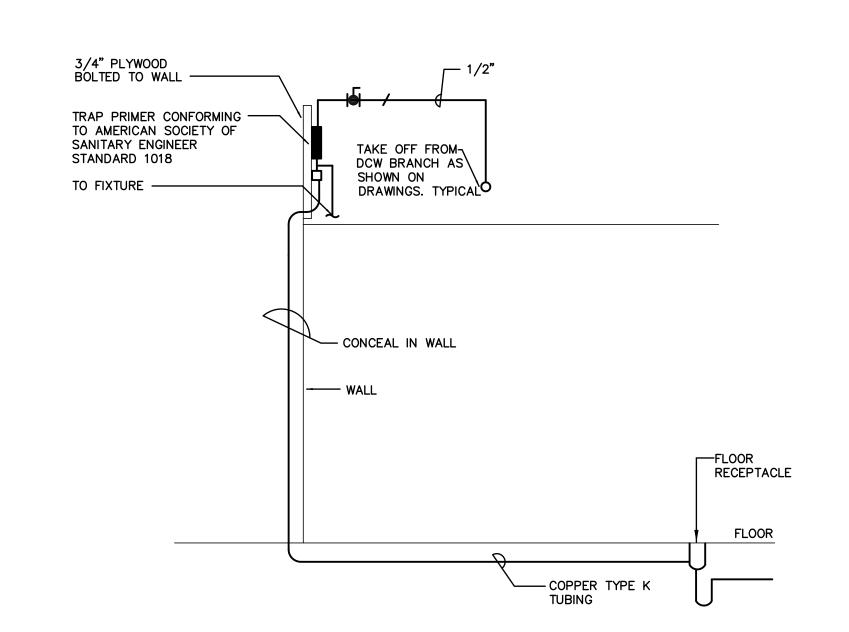
- 28. ISLE AND CORRIDOR WAYS THROUGH CONSTRUCTION AREAS WHICH ARE REQUIRED FOR EGRESS (NORMAL OR EMERGENCY) SHALL BE KEPT CLEAR
- OF MATERIAL, EQUIPMENT AND DEBRIS. 29. ALL WORK SHALL BE DONE BY LICENSED WORKMEN IN ACCORDANCE WITH



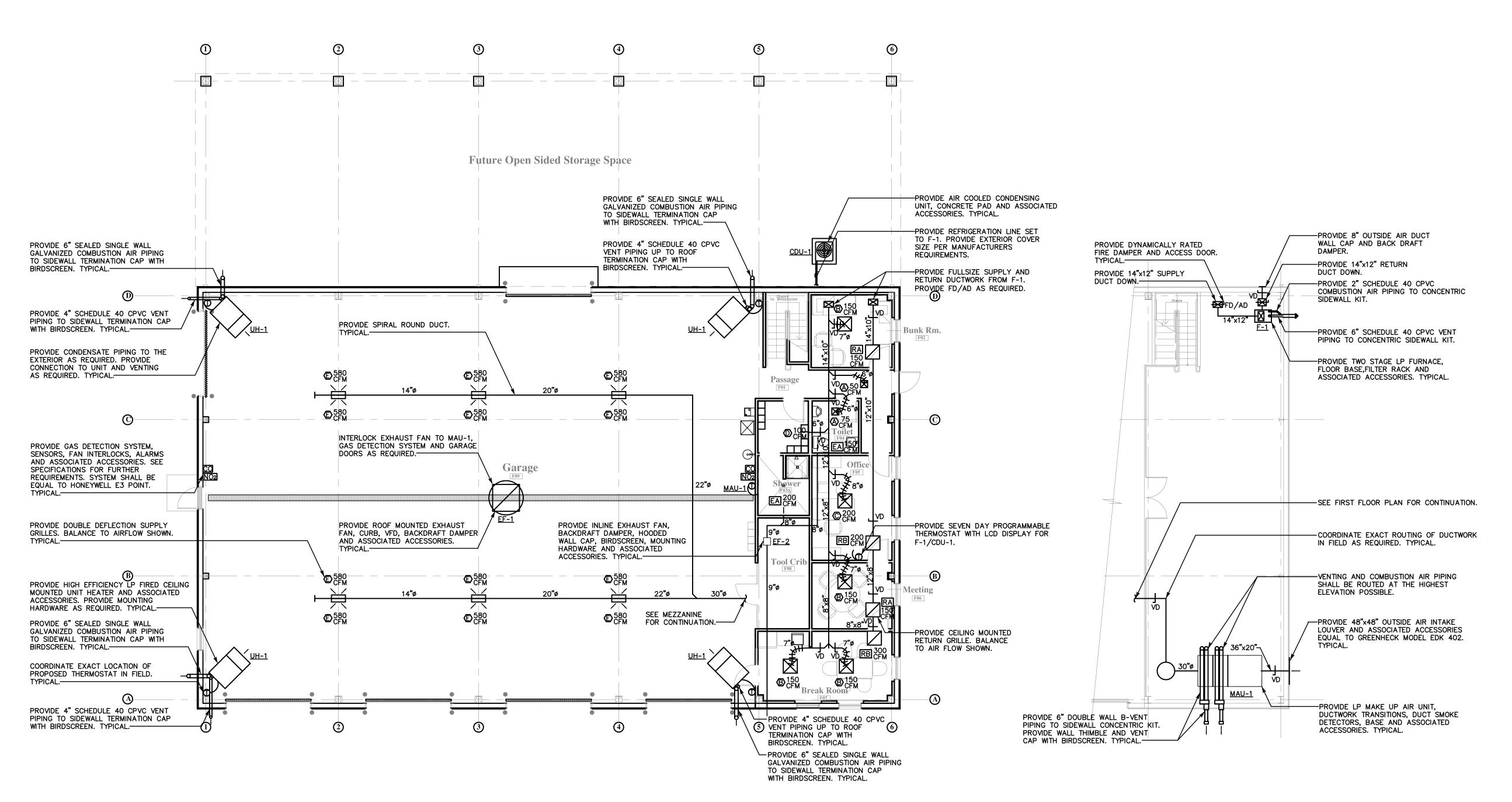
A C Z NTO GARA

TOWN

CLA PROJECT NO. PROJ. ENGINEER



TYPICAL TRAP PRIMER DETAIL SCALE: N.T.S.



FIRST FLOOR MECHANICAL PLAN

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

## MEZZANINE MECHANICAL PLAN

## MECHANICAL NOTES:

- . COORDINATE ALL WORK WITH ARCHITECTURAL AND STRUCTURAL
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
- 3. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, PIPING, CONDUIT, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.
- . ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
- 5. PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH PROPOSED STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL
- ROUTING OF ALL DUCTWORK/PIPING SHALL BE COORDINATED WITH PROPOSED CONDITIONS, STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL

## MECHANICAL DUCTWORK NOTES:

MAU-1/F-1:
INTERNALLY INSULATE (FOR SOUND) ALL SUPPLY AND RETURN
DUCTWORK TEN (10) FEET FROM UNIT. EXTERNAL INSULATE ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED AS REQUIRED BY CODE.

INTERNAL INSULATION: INSULATION SHALL BE INTERIOR DUCT SOUND ABSORBING INSULATION, GLUED AND PINNED PER MANUFACTURER'S REQUIREMENTS. PROVIDE INSULATION EQUAL TO SCHULLER PERMACOTE LINACOUSTIC HP. TYPICAL.

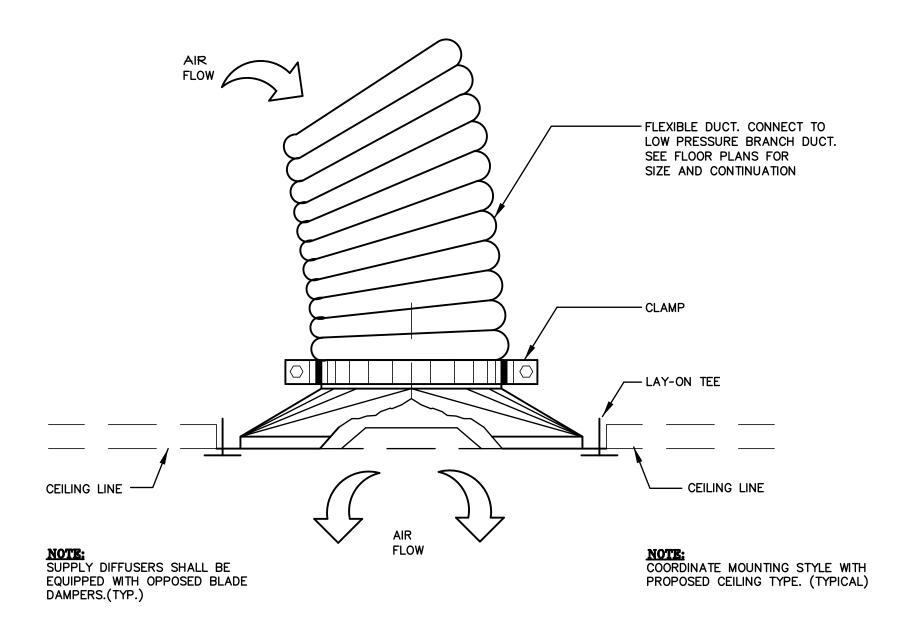
FIRE DAMPERS:
PROVIDE DYNAMIC FIRE DAMPERS AND ACCESS DOORS AT ALL FIRE ASSEMBLY PENETRATIONS. TYPICAL.

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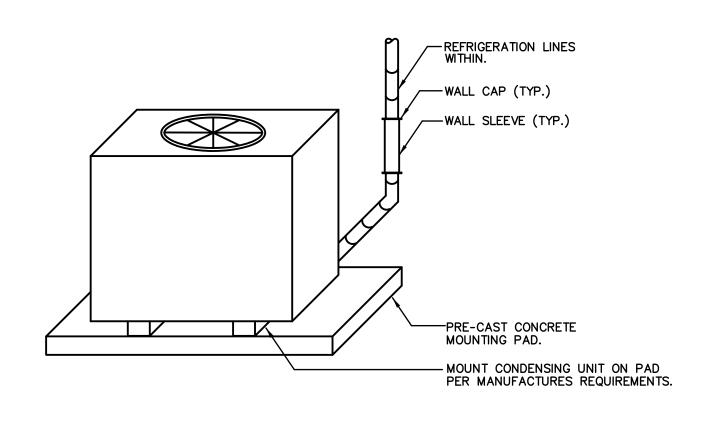
LA PROJECT NO. PROJ. ENGINEER

Ø4/3/18 SHEET NO.

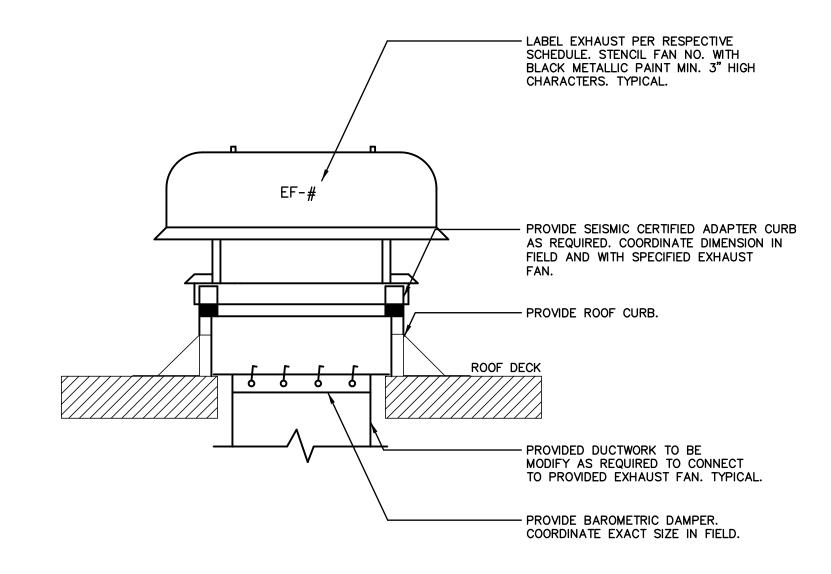




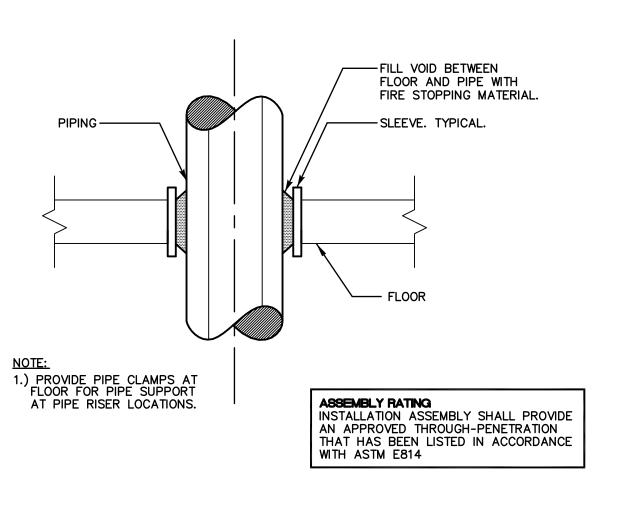
SQUARE DIFFUSER DETAIL
SCALE: N.T.S.



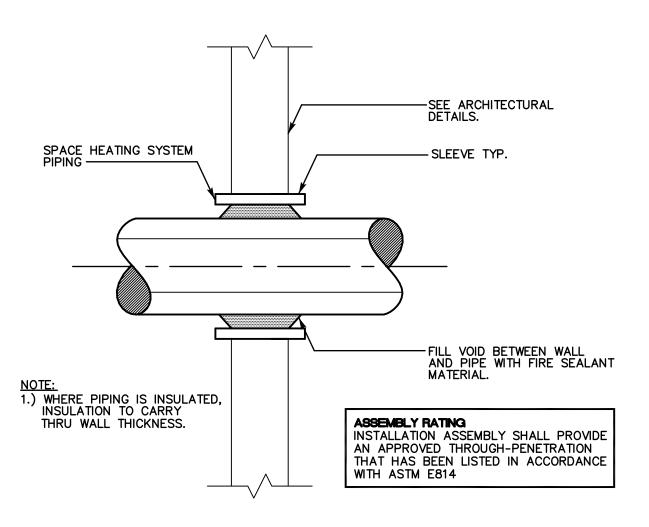
CONDENSING UNIT DETAIL
SCALE: N.T.S.



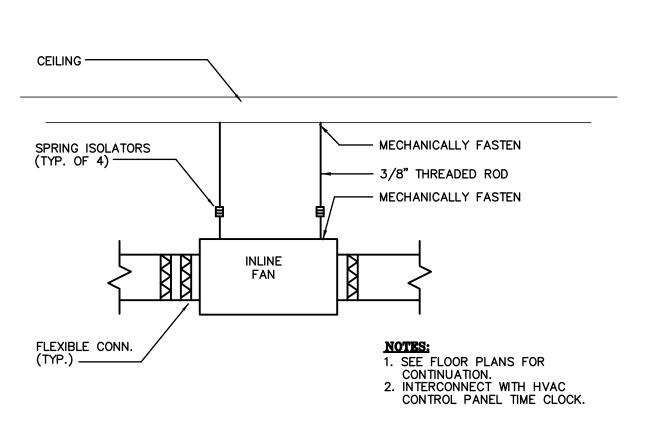
EXHAUST FAN DETAIL
SCALE: N.T.S.



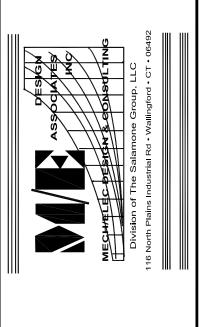
# TYPICAL FLOOR PIPE PENETRATION FIRE STOPPING DETAIL



TYPICAL WALL PIPE PENETRATION
FIRE STOPPING DETAIL
SCALE: N.T.S.



INLINE FAN DETAIL
SCALE: N.T.S.



			REVISION	
			DATE	
			NUMBER	

TOWN OF VOLUNTOWN PUBLIC WORKS GARAGE



RI	EGISTEI	R, GRII	LE	AND DIFF	TUSER	SCHEDU	LE
AIR INLET/ OUTLINE TYPE	NECK SIZE	TYPE	MAX. CFM	MANUFACTURER	MODEL	FINISH	ACCESSORIES
<b>(A)</b>	6"	4-WAY	75	PRICE	ASCD	SEE NOTE 1	OBD
B	8"	4-WAY	150	PRICE	ASCD	SEE NOTE 1	OBD
<b>©</b>	10"	4-WAY	200	PRICE	ASCD	SEE NOTE 1	OBD
<b>(</b>	12"x6"	SIDEWALL	150	PRICE	620DAL	SEE NOTE 1	OBD
Œ	20"x10"	SPIRAL	580	PRICE	SDGE	SEE NOTE 1	OBD
RA	8"x8"	RETURN	150	PRICE	80	SEE NOTE 1	OBD
RB	12"x8"	RETURN	300	PRICE	80	SEE NOTE 1	OBD
EA	12"x8"	SIDEWALL	200	PRICE	630DAL	SEE NOTE 1	OBD

1. COORDINATE FINISH WITH OWNER/ARCHITECT.

2. ALL AIR INLETS AND OUTLETS SHALL BE CONSTRUCTED OF EXTRUDED ALUMINUM. TYPICAL. 3. PROVIDE ALL MANUFACTURER ACCESSORIES FOR COMPLETE AND APPROPRIATE INSTALLATION. TYPICAL.

FURNACE SCHEDULE				
FURNACE UNIT NO.	F-1			
LOCATION	MEZZANINE			
FUEL	LIQUID PROPANE			
CFM	1,000			
ESP	0.5			
LP INPUT (BTU) 1ST/2ND STAGE	65,000/100,000			
LP OUTPUT (BTU) 1ST/2ND STAGE	62,855/96,700			
EFFICIENCY AFUE	96.7			
UNIT OPERATING WEIGHT(LBS)	185			
VIBRATION ISOLATION	YES			
LOCAL STARTER CONNECTION	YES			
MOTOR HP	.75			
ELECT. CHARACT.(V/PH/HZ)	115/1/60			
APPROXIMATE WEIGHT (LBS)	51			
DESIGN BASED MODEL	TUH2C100			
DESIGN BASED MANUFACTURER	TRANE			
NOTES:  1. MOUNT ON CONCRETE BASE WITH RUBBER INSULATOR PAD.				

2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

3. INSTALL PER MANUFACTURERS INSTALLATION REQUIREMENTS.

- 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS. 3. INSTALL PER MANUFACTURERS INSTALLATION REQUIREMENTS.
- 4. PROVIDE LP (PROPANE) CONVERSION KIT AND CONCENTRIC VENT KIT. TYPICAL.

CONDE	NSING UNIT SCHEDULE				
CONDENSING UNIT NO.	CDU-1				
LOCATION	GRADE				
SERVICE	F-1				
REFRIGERANT TYPE	R410A				
COOLING CAPACITY BTU	27,800				
COMPRESSOR TYPE	SCROLL				
NO. OF FANS	1				
SEER	15				
VIBRATION ISOLATION	YES				
LOCAL STARTER CONNECTION	YES				
ELECT. CHARACT.(V/PH/HZ)	230/1/60				
DESIGN BASED MODEL	4TTR4031				
DESIGN BASED MANUFACTURER	TRANE				
NOTES:  1. MOUNT ON CONCRETE PAD WITH RUBBER INSULATOR PAD.					

UNIT H	IEATER SCHEDULE
UNIT HEATER NO.	UH-1
SERVICE	GARAGE
LOCATION	CEILING MOUNTED (18'-0" AFF)
FUEL TYPE	PROPANE
HEATING INPUT (BTU)	131,000
HEATING OUTPUT (BTU)	121,830
AIR FLOW (CFM)	2,256
MOTOR HP	1/4
THERMOSTAT	SEE FLOOR PLANS
ELEC. CHARAC. (V/PH/HZ)	115/1/60
DESIGN BASED MODEL	UEAS-130

DESIGN BASED MANUFACTURER REZNOR

1. PROVIDE WITH FACTORY TH	ERMOSTAT TO CONTROL UI	NIT HEATER FAN. TYPICAL.							
2. SEE SPECIFICATIONS FOR F									
3. INSTALL PER MANUFACTURE		·—·							
4. PROVIDE DOWNTURN NOZZL	E WITH HORIZONTAL LOUVE	ERS OPTION CD3.							
EXHAUST FAN SCHEDULE									
EXHAUST FAN NO.	EF-1	EF-2							
SERVICE	GARAGE	RESTROOM/SHOWER							
LOCATION	ROOF	CEILING							
AIR FLOW (SCFM)	7,000 NORMAL 11,250 LOW ALARM 15,000 HIGH ALARM	350							
EXT. STATIC PRESS. (IWG)	0.5	0.2							
WHEEL TYPE	CENTRIFUGAL	CENTRIFUGAL							
WHEEL MATERIAL	ALUMINUM	ALUMINUM							
WHEEL CONSTRUCTION	BACKWARD	BACKWARD							
DRIVE TYPE	BELT	DIRECT							
BEARING TYPE	BALL	BALL							
LUBRICATION TYPE	PERMANENT	PERMANENT							
MOTOR HP	5	1/6							
ELECT. CHARAC. (V/PH/HZ)	230/1/60	115/1/60							
LOCAL DISCONNECT	YES	YES							
HOUSING MATERIAL	GALVANIZED STEEL	GALVANIZED STEEL							
BACKDRAFT DAMPER	YES	YES							
VIBRATION ISOLATION	YES	YES							
ISOLATOR TYPE	SPRING	SPRING							
DESIGN BASED MODEL	GB-330-50	SQ-80 VG-1/6							
DESIGN BASED MANUFACTURER	GREENHECK	GREENHECK							
NOTES:  1. SEE SPECIFICATIONS FOR FUI 2. INSTALL PER MANUFACTURES 3. EF-1 SHALL HAVE VFD AND 3 STAGES AS FOLLOWS: 7,0 AND 15,000 CFM CO/NO2 HI	RS INSTALLATION REQUIREM INTERLOCKED TO MAU-1. OO CFM NORMAL/11.600 C	THE VFD SHALL PROVIDE							

MAKE UP AIR UNIT SCHEDULE						
UNIT NO.	MAU-1					
SERVICE	GARAGE					
LOCATION	MEZZANINE					
CFM	7,000					
ESP	1.5					
LP INPUT (MBH)	700					
LP OUTPUT (MBH)	560					
TEMPERATURE RISE	73°F					
MOTOR HORSEPOWER	5					
NET WEIGHT	1,184					
ELECT. CHARAC. (V/PH.HZ)	230/1/60					
APPROXIMATE WEIGHT (LBS)	1,962					
DESIGN BASED MODEL	SSCBL-700					
DESIGN BASED MANUFACTURER	REZNOR					
NOTES:  1. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.  2. INSTALL PER MANUFACTURERS INSTALLATION REQUIREMENTS.						

3. PROVIDE STAINLESS STEEL HEAT EXCHANGER AND ASSOCIATED ACCESSORIES.

PROVIDE THE FOLLOWING ACCESSORIES: AA2, AC2, AD2, AE2, AF2, AG9, AH3, AJ1, AN10, AR8, AW11, AY3, BE2, BP4, CC6, DR2, PC12, RC4 AND RCM.

5. PROVIDE STAINLESS STEEL HEAT EXCHANGER AND ASSOCIATED ACCESSORIES.

STATIC PRESSURE TEMP TEMPERATURE TONS TONS OF REFRIGERATION UNIT HEATER VOLUME DAMPER MECHANICAL SYMBOL LIST NEGATIVE PRESSURE OR AIR INLET DUCTWORK POSITIVE PRESSURE OR AIR OUTLET DUCTWORK DUCT WORK SUPPLY DIFFUSER GRILLE TYPE RETURN GRILLE TYPE EXHAUST GRILLE TYPE DIAMETER THERMOSTAT

FIRE DAMPER AND ACCESS DOOR

MECHANICAL ABBREVIATIONS

ABOVE FINISHED FLOOR

BACK DRAFT DAMPER

BRAKE HORSE POWER

BRITISH THERMAL UNIT

CUBIC FEET PER MINUTE

CABINET UNIT HEATER

FROM FINISHED FLOOR

GALLONS PER MINUTE

LEAVING AIR TEMPERATURE

FEET PER MINUTE

FEET PER SECOND

BRITISH THERMAL UNIT/HOUR

ENTERING AIR TEMPERATURE

EXTERNAL STATIC PRESSURE

ACCESS DOOR

AIR FILTER

CENTRIFUGAL

DRY BULB

**EXHAUST** 

EXHAUST FAN

FIRE DAMPER

HORSEPOWER

INSIDE DIAMETER

MAKE UP AIR UNIT

LIQUID PROPANE

NOT TO SCALE

OUTSIDE AIR

THOUSAND BTU/HOUR

OPPOSED BLADE DAMPER

PRESSURE RELIEF VALVE

REVOLUTIONS PER MINUTE

RELATIVE HUMIDITY

POUNDS PER SQUARE INCH ABSOLUTE

POUNDS PER SQUARE INCH GAUGE

HEIGHT

INCHES

LENGTH

LOUVER

MAXIMUM

MINIMUM

SENSOR

SUPPLY FAN SMOKE DETECTOR

AMPERE

BDD

BTU

BTUH

CFM

CUH

EAT

ESP

EXH

FPS

GPM

MAX

MBH

NTS

OBD

PRV

PSIA

PSIG

RPM

SENS

FD/AD

OA

FD

DB

CENTRIF

### MECHANICAL GENERAL NOTES

REFER TO SPECIFICATIONS AND BID DOCUMENTS FOR ADDITIONAL CONTRACT REQUIREMENTS. 2. MECHANICAL DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS. 3. NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE

SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO DRAWING NOTES. 4. MECHANICAL DRAWINGS DO NOT NECESSARILY SHOW ALL RELATED WORK CONTRACTOR TO USE ALL DRAWINGS IN CONTRACT DOCUMENTS FOR DIVISION 15 MECHANICAL WORK.

5. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR AND EQUIPMENT.

6. MECHANICAL PLANS, DETAILS AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE SYSTEM. THESE ARE DIAGRAMMATIC AND DO NOT SHOW ALL BENDS, COUPLINGS, OFFSETS, VALVES, DRAINS, FITTINGS, HANGERS, CLEANOUTS AND ACCESS DOORS WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SYSTEM. 7. PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR

TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK. 8. BEFORE SELECTING MATERIAL AND EQUIPMENT AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT AND CLEARANCES.

9. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES. 10. LOCATE ALL EQUIPMENT WHICH REQUIRES SERVICING IN FULLY ACCESSIBLE POSITIONS. IF REQUIRED FOR BETTER ACCESSIBILITY, FURNISH ACCESS DOORS FOR THAT PURPOSE. MINOR DEVIATIONS FROM DRAWINGS ALLOWED FOR BETTER ACCESSIBILITY. ANY CHANGE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.

11. COORDINATE WORK WITH OTHER DIVISIONS AND SPECIFICATIONS ON THIS

12. ALL WORK IN INTERIOR FINISHED SPACES IS TO BE CONCEALED BEHIND WALLS, ABOVE CEILINGS OR HUNG CEILINGS, OR UNDER THE FLOOR. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAINT WORK AND/OR REPLACEMENT OF CEILING TILES AS REQUIRED TO PERFORM WORK.

13. ALL EQUIPMENT REQUIRED TO BE LISTED OR APPROVED BY A TESTING LABORATORY SHALL BEAR A LABEL OF SUCH LABORATORY. 14. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL

GOVERNING AUTHORITIES. 15. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT RECOGNIZED:

A. CONNECTICUT BASIC BUILDING CODE AND SUPPLEMENTS B. INTERNATIONAL ENERGY CONSERVATION CODE C. INTERNATIONAL PLUMBING CODE

D. INTERNATIONAL MECHANICAL CODE E. NATIONAL ELECTRIC CODE

16. IF A MANUFACTURER OF EQUIPMENT REQUIRES LARGER CAPACITY CIRCUITRY AND/OR EQUIPMENT; THE CONTRACTOR SHALL PROVIDE SUCH CAPACITY AND/OR EQUIPMENT UNDER HIS CONTRACT AT NO COST TO THE OWNER. 17. IF A MANUFACTURER OF PROVIDED EQUIPMENT RECOMMENDS ACCESSORY(S)
OR OPTION(S) FOR THE SUPPLIED EQUIPMENT; THE CONTRACTOR SHALL PROVIDE
ACCESSORY(S) OR OPTION(S) UNDER HIS CONTRACT AT NO COST TO THE

18. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS AND RELATED ATTACHMENTS)". 19. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY".

20. ISLE AND CORRIDOR WAYS THROUGH CONSTRUCTION AREAS WHICH ARE REQUIRED FOR EGRESS (NORMAL OR EMERGENCY) SHALL BE KEPT CLEAR OF MATERIAL, EQUIPMENT AND DEBRIS. 21. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.

22. PROVIDE ALL CRANES, RIGGING AND STREET STAGING, AND TRAFFIC CONTROL NEEDED TO INSTALL EQUIPMENT PROVIDED.

23. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF MECHANICAL AND ELECTRICAL ITEMS TO BE INSTALLED IN THE CEILING. 24. UNLESS OTHERWISE INDICATED, PROVIDE CONTROL WIRING FOR ALL MECHANICAL SYSTEM EQUIPMENT.

25. CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT WITH DIVISION 16. 26. UNLESS OTHERWISE INDICATED, SUPPORT PIPES WITH HANGER SPACING IN

ACCORDANCE WITH THE BOCA NATIONAL MECHANICAL CODE 27. CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR PIPE EXPANSION, CONTRACTION, SLOPE AND ANCHORAGE.

28. CONTRACTOR SHALL INSULATE ALL HVAC PIPING AND HVAC SYSTEM SUPPLY AND RETURN DUCTWORK.

29. UNLESS OTHERWISE INDICATED, ALL DUCTWORK, PIPING AND WIRING SHALL BE CONCEALED ABOVE CEILINGS AND/OR IN WALLS.

30. PLANS DO NOT SHOW ALL EQUIPMENT, VALVES, FITTINGS AND CONNECTIONS. SEE PIPING RISER DIAGRAMS, DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ADDITIONAL REQUIREMENTS.

31. SUBMIT FOR REVIEW DETAILED SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIAL REQUIRED TO COMPLETE THE WORK. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL ACCEPTED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT HAS BEEN APPROVED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN SPECIFIED OR DETAILED ON THE DRAWINGS, WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL OR ARCHITECTURAL LAYOUT ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. OWNER RESERVES THE RIGHT TO HAVE THE ARCHITECT OR ENGINEER OF HIS CHOICE PREPARE ANY REDESIGN WORK.

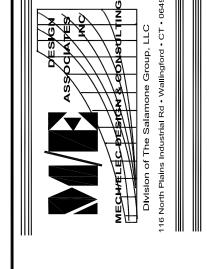
32. TURN OVER TO THE OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIAL PROVIDED.

33. THE CONTRACTOR MAY SUBSTITUTE EQUIPMENT OF ANOTHER MANUFACTURER IF IT IS OF EQUAL QUALITY AND RATING, SUBJECT TO OWNER'S AND ENGINEER'S REVIEW AND ACCEPTANCE. WHERE CONTRACTOR SUBSTITUTES EQUIPMENT REQUIRING DIFFERENT SYSTEM CONFIGURATION, HE SHALL BE RESPONSIBLE FOR PROVIDING INSTALLATION SHOP DRAWINGS AND ALL RELATED ACCESSORY EQUIPMENT FOR A COMPLETE SYSTEM INSTALLATION.

34. ASCERTAIN FROM EXAMINATION OF THE DRAWINGS, ANY SPECIAL TEMPORARY OPENINGS AND STRUCTURAL LOADING IN THE BUILDING REQUIRED FOR THE ADMISSION OF APPARATUS PROVIDED UNDER THIS DIVISION. NOTIFY THE OWNER ACCORDINGLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSEMBLY AND DISASSEMBLY OR SEQUIPMENT AS REQUIRED TO PLACE EQUIPMENT IN ITS FINAL LOCATIONS.

35. UNLESS OTHERWISE INDICATED, PROVIDE 14 GAUGE GALVANIZED PIPE SLEEVES TWO (2) SIZES LARGER THAN THE PIPE OR INSULATION WHERE SUCH ASSEMBLIES PENETRATE WALLS, PARTITIONS, FLOORS OR STRUCTURAL MEMBERS. 36. ALL VOIDS BETWEEN PIPES SHALL BE FILLED WITH A FIRE TESTED AND

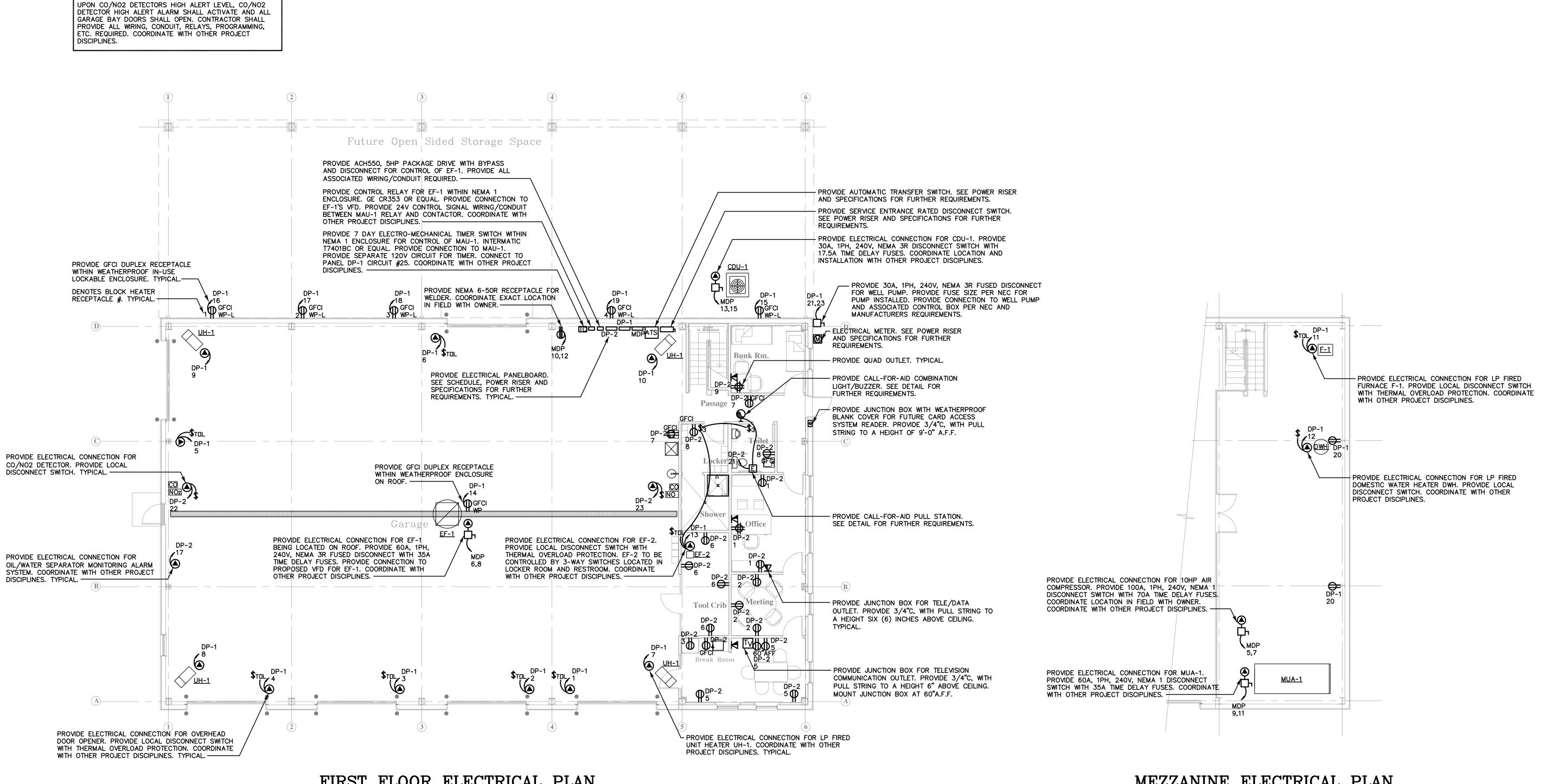
APPROVED ELASTOMERIC CAULKING MATERIAL. 37. ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.



AGE CT SAR/ TOWN PUBLIC 96 GATE

LA PROJECT NO. PROJ. ENGINEER

SHEET NO.



FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

MEZZANINE ELECTRICAL PLAN

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

## **GENERAL NOTES:**

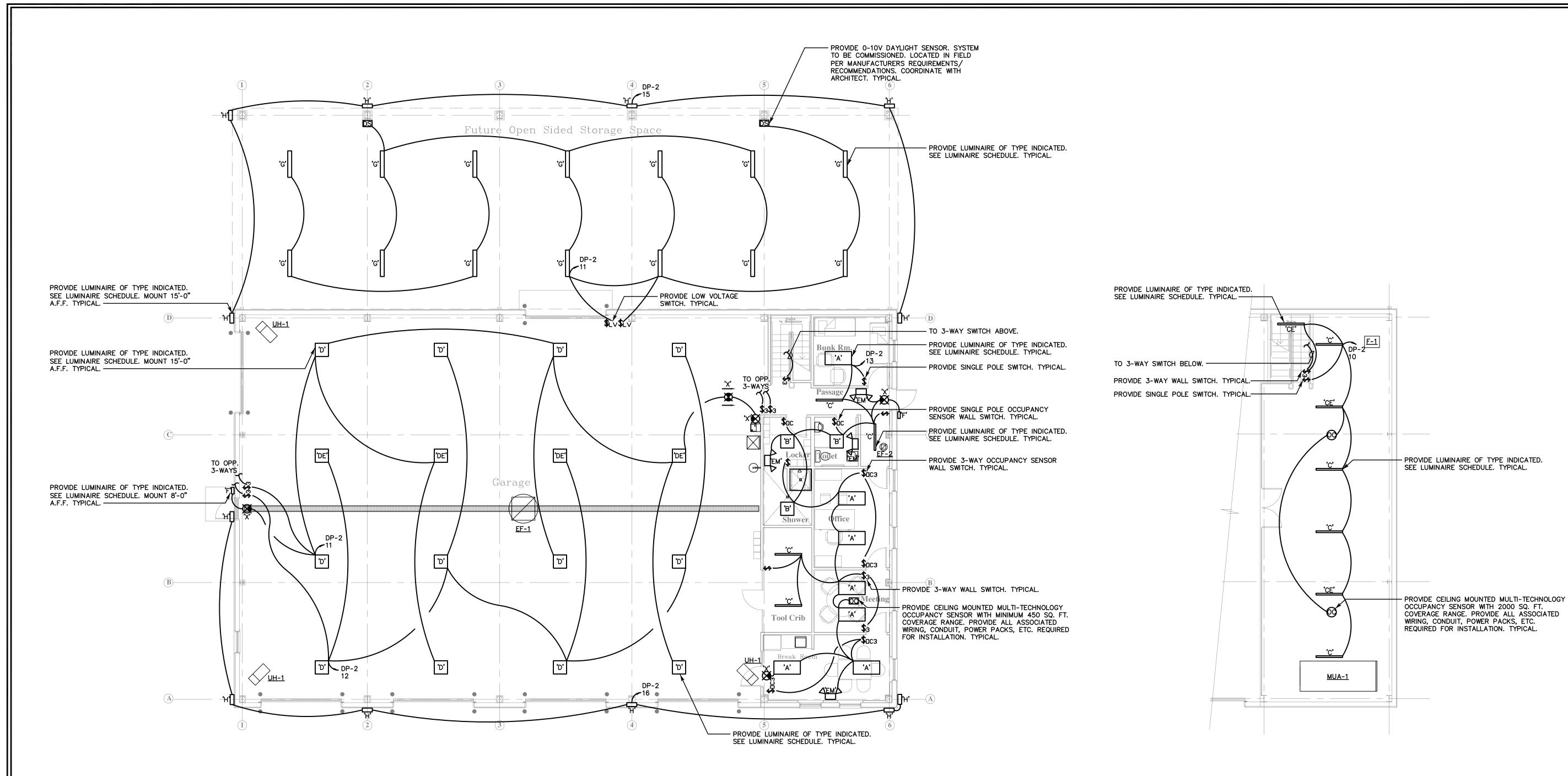
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
- 2. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING
- PROJECT SCOPE OF WORK. 3. ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
- 4. ROUTING OF ALL CONDUIT SHALL BE COORDINATED WITH STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL
- 5. PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL 6. INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.

			REVISION	
			DATE	
			NUMBER	

TOWN PUBLIC 96 GATE

LA PROJECT NO. CLA-15-5598 PROJ. ENGINEER

**E-1** 

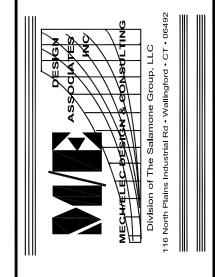


FIRST FLOOR LIGHTING PLAN
SCALE: 1/8"=1'-0"



## GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
   DRAWINGS ARE DIAGRAMMATIC CONTRACTOR SHALL VERIFY
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY
  ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED
  MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING
  PROJECT SCOPE OF WORK.
- ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
   ROUTING OF ALL CONDUIT SHALL BE COORDINATED WITH STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL
- PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL
   INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.



			REVISION
			DATE
			NUMBER

DWN OF VOLUNTOW

JBLIC WORKS GARA

GATE STREET, VOLUNTOWN,

Ingineers Inc.
RUCTURAL SURVEYING

Crut · Structurery S17 Main Street N (860) 886-1966 1

CLA PROJECT NO.

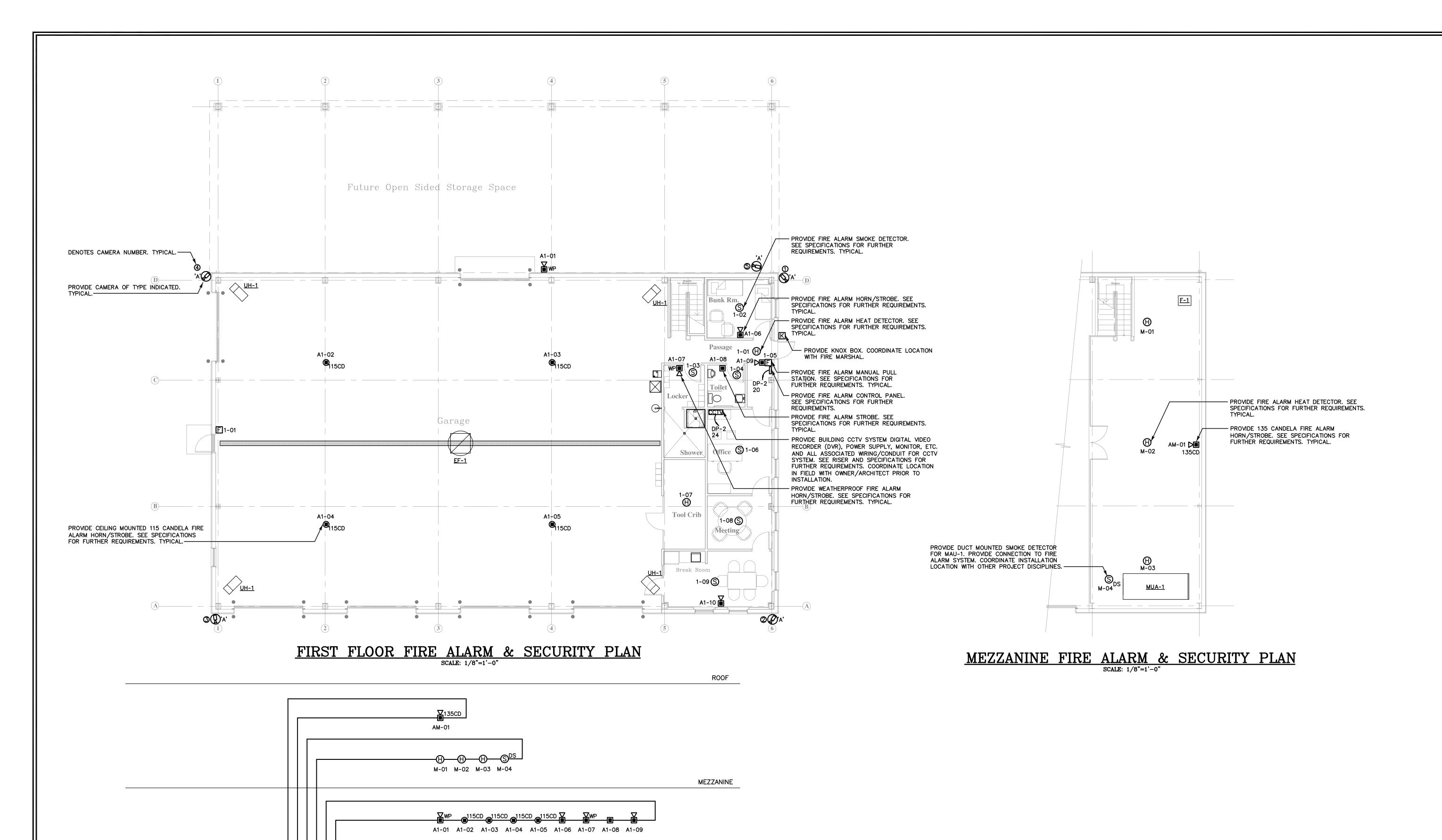
CLA-15-559

PROJ. ENGINEER

DATE:

Ø4/

F-2



FIRST FLOOR

<u>-E-S-S-S-E-S-B-S-</u>S-

1-01 1-02 1-03 1-04 1-05 1-06 1-07 1-08 1-09

PROVIDE ADDRESSABLE FIRE ALARM CONTROL PANEL. SEE SPECIFICATIONS FOR FURTHER

PROVIDE CONNECTION TO CENTRAL STATION MONITORING.—

PROVIDE 120V, 1P, 20A

DEDICATED CIRCUIT. -

FACP

FIRE ALARM RISER DIAGRAM
SCALE: NTS

REQUIREMENTS. -

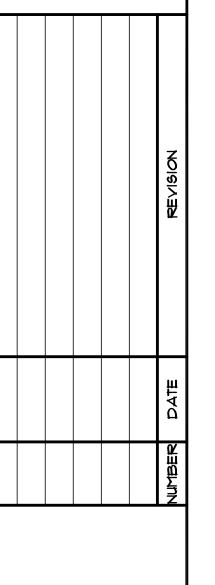
**GENERAL NOTES:** 

- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING TOOLS, MATERIAL, MANPOWER, ETC. REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT.
- ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF PROPOSED MATERIALS, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.
- 3. ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS. TYPICAL.
- 4. ROUTING OF ALL CONDUIT SHALL BE COORDINATED WITH STRUCTURAL FRAMING ELEMENTS AND ALL OTHER
- 5. PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL

2. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY

PROJECT DISCIPLINES. TYPICAL

6. INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER NEC AND MANUFACTURER'S REQUIREMENTS.



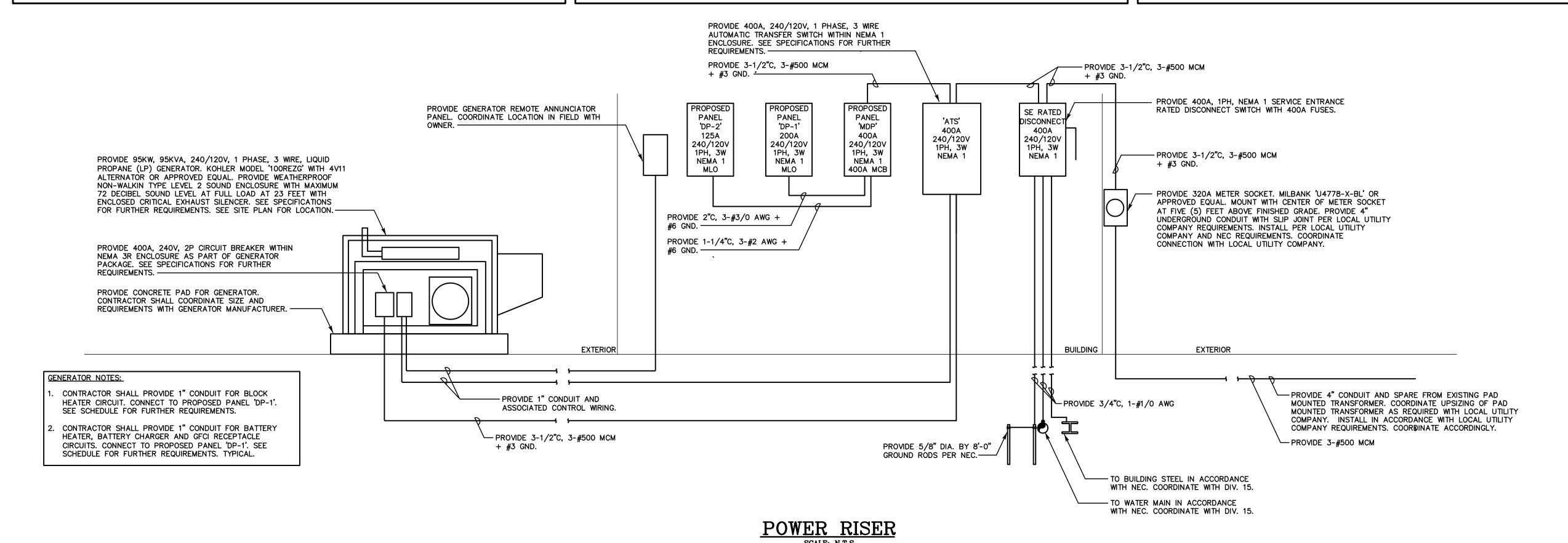
CLA PROJECT NO.

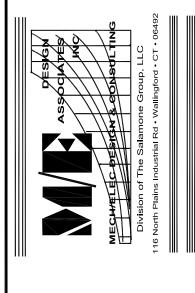
PROJ. ENGINEER

	NELBOARD MDP	Class: Type:					Short Circuit Rating (Min.): 65 Remark:	5 K.A.I.C.
SERVICE 240/120 Volts			1 Ph	iase 3	3 Wire		S/E Label: YES	
PA CON	NELBOARD IFIGURATION	400 AMPERE M Trim: SURFACE					Entrance: BOTTOM Equipment Ground Bus: YES	
	MAIN	Type: 400A/3P Wire Size: SEE		IRCUIT B	REAKER		NEMA 1	
	BRANCH CIRCUITS	Branch Protecti	ive Devic	es: (MOI	LDED CA	SE CIRCU	IT BREAKERS)	
Circ No	Circuit	Designation	KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.)	See Remark
1	DP-1		21.7	2	200	200	SEE RISER	
2	DP-2		17.7	2	125	125	SEE RISER	
3			_	_	-	-		
4			_	_	<del>-</del>	<del> </del>		
5	AIR COMPRESS	SOR (10 HP)	11.5	2	125	125	1"C, 3-#6 AWG	
		OUR (IU HP)						
6	EF-1		8.1	2	70	100	1"C, 2-#4 AWG + #8 GND	
7			-	-	-	-		
8			-		-	-		
9	MAU-1		8.1	2	60	100	1"C, 3-#6 AWG + #10 GND	
10	WELDER RECP	TACLE	8.3	2	50	100	3/4°C, 3-#8 AWG	
11			-	-	-	-		
12			•	-	-	-		
13	CDU-1		3.9	2	25	100	1/2°C, 3-#12 AWG	
14	PREPARED SP	ACE	-	1	-	100		
15			-	-	-	-		
16	PREPARED SP	ACE	-	1	-	100		
17	PREPARED SP		-	1	_	100		
18	PREPARED SP		_	1	<del> </del>	100		
19	PREPARED SP		_	1	_	100		
20	PREPARED SP		_	1	_	100		
21	PREPARED SP			1	-	100		
	PREPARED SP				<b>-</b>	100		
22			-	1	-			
23	PREPARED SP		-	1	-	100		
24	PREPARED SP		-	1	-	100		
25	PREPARED SP		-	1	-	100		
26	PREPARED SP		-	1	-	100		
27	PREPARED SP		-	1	-	100		
28	PREPARED SP	ACE	-	1	-	100		
29	PREPARED SP	ACE	-	1	-	100		
30	PREPARED SP	ACE	-	1	-	100		
31	PREPARED SP	ACE	-	1	-	100		
32	PREPARED SP	ACE	-	1	-	100		
33	PREPARED SP	ACE	-	1	-	100		
34	PREPARED SP		-	1	-	100		
35	PREPARED SP		-	1	_	100		
36	PREPARED SP		_	1	-	100		
37	PREPARED SP		_	1	_	100		
	PREPARED SP				_	100		
38			-	1				
39	PREPARED SP		-	1	-	100		
40	PREPARED SP		-	1	-	100		
41	PREPARED SP		-	1	-	100		
42	PREPARED SP	ACE	-	1	-	100		
	I	TOTAL KVA:	79.3	I	1	I		

PANI CONFI	ERVICE JELBOARD TIGURATION MAIN ERANCH JIRCUITS	240/120 Volts  200 AMPERE M Trim: SURFACE  Type: MLO Wire Size: SEE	AIN BUS		3 Wire							
Circ No 1 (2 (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	MAIN RANCH	Trim: SURFACE Type: MLO					S/E Label:NO					
Circ No 1 (2 (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	RANCH			AIN BUS  Entrance: TOP/BOTTOM  Equipment Ground Bus: YES								
Circ No  1 (2 (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4			RISER				NEMA 1					
No 1 (2 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4		Branch Protect	ive Devic	es: (MOI	LDED CA	SE CIRCU	IT BREAKERS)					
2 (	Circuit	Designation	KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.) See	Remark				
3 (	OH DOOR OPE	NER-WEST/RIGHT	1.2	1	20	100	1/2°C, 3-#10 AWG					
	OH DOOR OPE	NER-WEST/CTR R	1.2	1	20	100	1/2°C, 3-#10 AWG					
<del>,  </del>		NER-WEST/CTR L	1.2	1	20	100	1/2°C, 3-#10 AWG					
4 (	OH DOOR OPE	NER - WEST/LEFT	1.2	1	20	100	1/2"C, 3-#10 AWG					
5 (	OH DOOR OPE	NER - NORTH	1.2	1	20	100	1/2"C, 3-#10 AWG					
6 (	OH DOOR OPE	NER - EAST	1.2	1	20	100	1/2°C, 3-#12 AWG					
7 H	HEATER - GAF	RAGE SW CORNER	0.9	1	15	100	1/2°C, 3-#10 AWG					
8 H	HEATER - GAF	RAGE NW CORNER	0.9	1	15	100	1/2°C, 3-#10 AWG					
		RAGE NE CORNER	0.9	1	15	100	1/2°C, 3-#10 AWG					
		RAGE SE CORNER	0.9	1	15	100	1/2°C, 3-#12 AWG					
	FURNACE F-1 - IN MEZZANINE		1.9	1	20	100	1/2°C, 3-#12 AWG					
		R - IN MEZZANINE	0.6	1	20	100	1/2°C, 3-#12 AWG					
	EF-2		0.7	1	15	100	1/2°C, 3-#12 AWG					
	EXT GFCI - ROOF		0.2	1	20	100	1/2°C, 3-#12 AWG					
	EXT GFCI - AT CDU-1		0.2	1	20	100	1/2°C, 3-#12 AWG					
	BLOCK HEATER RECEPT 1		1.5	1	20	100	1/2°C, 3-#10 AWG					
	BLOCK HEATER BLOCK HEATER		1.5	1 1	20	100	1/2°C, 3-#10 AWG 1/2°C, 3-#12 AWG					
	BLOCK HEATER		1.5 1.5	1 1	20	100	1/2°C, 3-#12 AWG					
	RECEPT - MEZ		0.4	1	20	100	1/2°C, 3-#12 AWG					
	WELL PUMP (1		0.9	2	15	100	3/4"C, 3-#12 AWG					
	FUTURE GATE		-	1	20	100	3/4"C, 3-#10 AWG					
		OF ERATOR	_	<del>-</del> -		-						
	FUTURE GATE	OPERATOR	_	1	20	100	3/4"C, 3-#10 AWG					
	TIME CLOCK M		_	1	20	100	1/2°C, 3-#12 AWG					
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
30 F	PREPARED SP	ACE	-	1	-	100						
31 F	PREPARED SP	ACE	-	1	-	100						
32 F	PREPARED SP	ACE	•	1	-	100						
33 F	PREPARED SP	ACE	-	1	-	100						
	PREPARED SP		•	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
	PREPARED SP		-	1	-	100						
42 F	PREPARED SP	ACE TOTAL KVA:	- 21.7	1	-	100						

	ANELBOARD DP-2	Class: Type:					Short Circuit Rating (Min.): Remark: SECTION 1	22 K.A.I.C.	
	SERVICE 240/120 Volts  PANELBOARD 125 AMPERE MA CONFIGURATION Trim: SURFACE		1 Phase 3 Wire S/E Label: NO						
			•						
Type: MLO Wire Size: SEE			RISER				NEMA 1		
	BRANCH CIRCUITS	Branch Protect	ive Devic	es: (MOI	LDED CAS	SE CIRCU	IIT BREAKERS)		
Circ No	Circuit	Designation	KVA Load	Pole	Trip Amps	Frame Amps	Wire (min.)	See Remo	
1	RECEPT - OFF	TICE	0.8	1	20	100	1/2"C, 3-#12 AWG		
2	RECEPT - MEE		0.6	1	20	100	1/2"C, 3-#12 AWG		
3	RECEPT - REF		0.6	1	20	100	1/2"C, 3-#12 AWG		
4	-	JNTER BREAK RM	0.2	1	20	100	1/2"C, 3-#12 AWG		
5	RECEPT - BRE		0.8	1	20	100	1/2"C, 3-#12 AWG	+	
6	RECEPT - TOO		0.8	1	20	100	1/2"C, 3-#12 AWG	+	
7		R COOLER/PASSGE	0.6	1	20	100	1/2"C, 3-#12 AWG		
		T RM/LOCKER RM	0.4	1	20	100	1/2"C, 3-#12 AWG		
9	RECEPT - BUN	-	0.4	1	20	100	1/2"C, 3-#12 AWG		
10	LTG - MEZZAN		0.4	1	20	100	1/2"C, 3-#12 AWG	_	
11	LTG - GARAGE		1.7	1	20	100	1/2"C, 3-#12 AWG	-	
12	LTG - GARAGE		1.7	1	20	100	1/2"C, 3-#10 AWG	+	
13	LTG - GARAGE		0.7	1	20	100	1/2"C, 3-#10 AWG	+	
14	<u> </u>		1.2	1	20	100	1/2°C, 3-#10 AWG		
		EXT. LTG - COVERED STORAGE  EXT. LTG - BUILDING EAST  EXT. LTG - BUILDING WEST			20		1/2°C, 3-#10 AWG		
15	<b>.</b>			1		100	<u> </u>		
16			0.7	1	20	100	1/2"C, 3-#10 AWG		
17	EXT. LTG - FU		-	1	20	100	1/2°C, 3-#10 AWG		
18	· · · · · · · · · · · · · · · · · · ·	P MONITOR SYS	0.2	1	15	100	1/2°C, 3-#12 AWG	'A'	
19		ONITOR SYSTEM	0.6	1	15	100	1/2"C, 3-#12 AWG	'A'	
20	FIRE ALARM		0.6	1	15	100	1/2"C, 3-#12 AWG	'A'	
21	CALL-FOR-AID	0700 000 1100711	0.2	1	15	100	1/2"C, 3-#12 AWG		
22	•	CTOR SYS NORTH	0.1	1	15	100	1/2"C, 3-#12 AWG	'A'	
23	·	CTOR SYS SOUTH	0.1	1	15	100	1/2"C, 3-#12 AWG	1.,	
24	CCTV SYSTEM		0.6	1	15	100	1/2"C, 3-#12 AWG	'A'	
25	PREPARED SP.		-	1	-	100			
26	PREPARED SP.		-	1		100			
27	PREPARED SP		-	1		100			
28	PREPARED SP.		-	1	-	100			
29	PREPARED SP.		-	1	-	100			
30	PREPARED SP.		-	1	-	100			
31	PREPARED SP.		-	1	-	100			
32	PREPARED SP.		-	1	-	100			
33	PREPARED SP.		_	1		100			
34	PREPARED SP.		-	1	-	100			
35	PREPARED SP.		-	1		100			
36	PREPARED SP.		-	1	_	100			
37	PREPARED SP.	ACE	-	1	-	100			
38	PREPARED SP.	ACE	1	1	-	100			
39	GENERATOR B	LOCK HEATER	1.5	1	20	100	1"C, 3-#12 AWG		
40	GENERATOR B	ATTERY CHARGER	0.9	1	20	100	1"C, 3-#12 AWG		
41	GENERATOR B	ATTERY HEATER	0.4	1	20	100	1"C, 3-#12 AWG		
42	GENERATOR G	FCI	0.2	1	20	100	1"C, 3-#12 AWG		
		TOTAL KVA:	17.7						

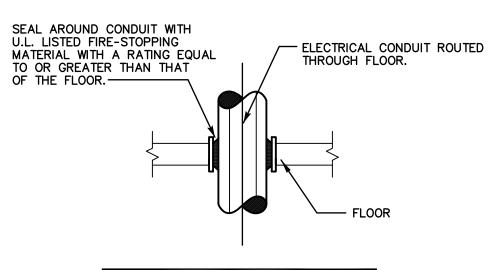




S GARAGE SLUNTOWN, CT VOL EKS TOWN PUBLIC 96 GATE

CLA PROJECT NO. PROJ. ENGINEER

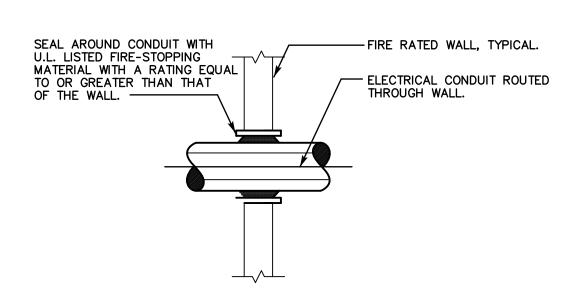
SHEET NO.



ASSEMBLY RATING INSTALLATION ASSEMBLY SHALL PROVIDE AN APPROVED THROUGH-PENETRATION THAT HAS BEEN LISTED IN ACCORDANCE WITH ASTM E814

## TYPICAL CONDUIT FLOOR PENETRATION DETAIL

SCALE: N.T.S.



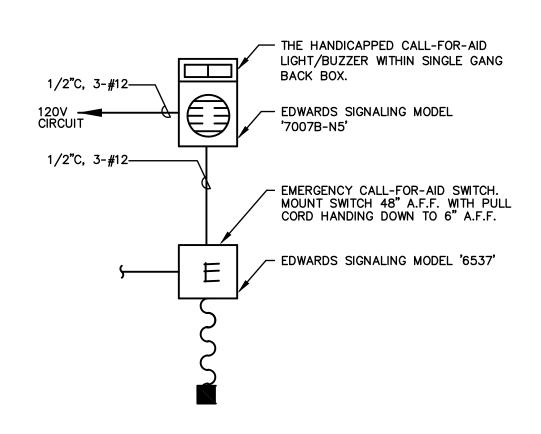
## TYPICAL CONDUIT WALL PENETRATION DETAIL SCALE: N.T.S.

INSTALLATION ASSEMBLY SHALL PROVIDE AN APPROVED THROUGH-PENETRATION

THAT HAS BEEN LISTED IN ACCORDANCE

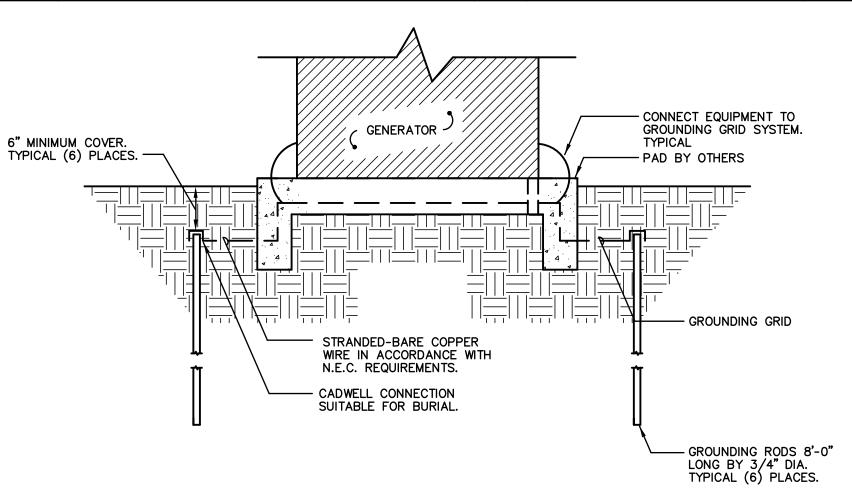
ASSEMBLY RATING

WITH ASTM E814

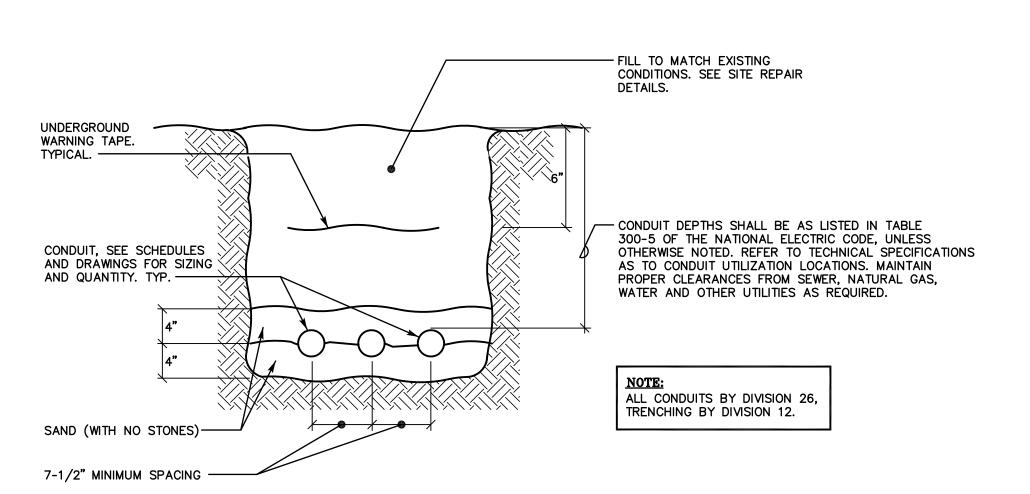


CALL-FOR-AID DETAIL

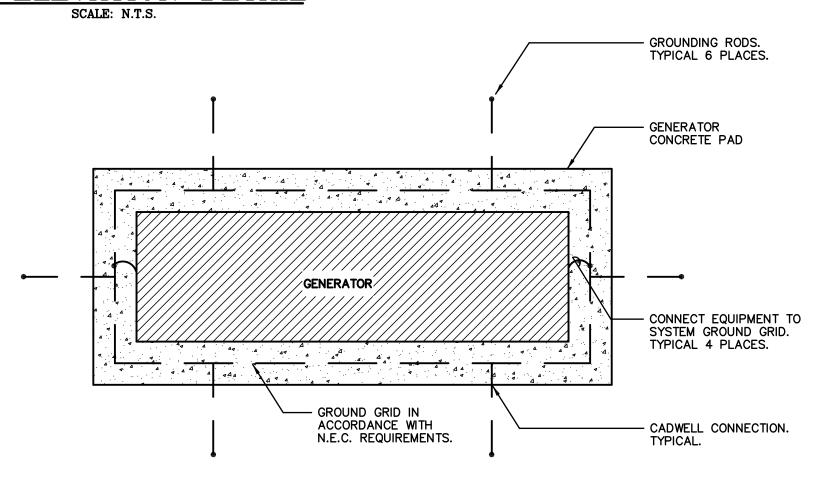
	LUMINAIRE	<u>S(</u>	CHEDULE		
LTG. CODE	DESCRIPTIONS	VOLTS	CATALOG NO./ MANUFACTURER	MOUNTING	LAMP (G.E OR EQUAL)
'A'	2'X4' HIGH EFFICIENCY, ARCHITECTURAL LOW PROFILE RECESSED LED LUMINAIRE. 4,900 NOMINAL LUMENS DELIVERED. 3500K COLOR. WHITE FINISH. FIVE YEAR	UNV	2DLG49L835-4-D-UNV-DIM	RECESSED/ CEILING	LED
	WARRANTY. DLC AND UL LISTED.		PHILIPS DAYBRITE		
'B'	2'X2' HIGH EFFICIENCY, ARCHITECTURAL LOW PROFILE RECESSED LED LUMINAIRE. 3,800 NOMINAL LUMENS DELIVERED. 3500K COLOR. WHITE FINISH. FIVE YEAR	UNV	2DLG38L835-2-D-UNV-DIM	RECESSED/ CEILING	LED
	WARRANTY. DLC AND UL LISTED.		PHILIPS DAYBRITE		
,C,	3"X4' HIGH EFFICIENCY, LOW PROFILE LED STRIP LIGHT. 3,800 NOMINAL LUMENS DELIVERED. 4000K COLOR. ENCLOSED LENS. WHITE FINISH. FIVE YEAR WARRANTY. DLC	UNV	LF4FR3940UDTZ	SURFACE - SUSPENDED/ CEILING	LED
	AND UL LISTED.		PHILIPS DAYBRITE		
'CE'	SAME AS 'C' WITH 1,100 LUMEN EMERGENCY BATTERY PACK.	UNV	LF4FR3940UDTZ-EMLED	SURFACE - SUSPENDED/ CEILING	LED
			PHILIPS DAYBRITE		
'D'	2'X2' HIGH EFFICIENCY, LED HIGH BAY. 16,000 NOMINAL LUMENS DELIVERED. 4000K COLOR. GENERAL DISTRIBUTION. WHITE ACRYLIC LENS. WHITE FINISH. 54" CHAIN KIT. FIVE	UNV	FBX16LL40-UNV-LCA-EMLED FBX CHAIN KIT	SUSPENDED/ CEILING	LED
	YEAR WARRANTY. DLC AND UL LISTED.		PHILIPS DAYBRITE		
'DE'	SAME AS 'D' WITH 2,400 LUMEN EMERGENCY BATTERY PACK.	UNV	FBX16LL40-UNV-LCA FBX CHAIN KIT	SUSPENDED/ CEILING	LED
			PHILIPS DAYBRITE		
'EM'	DUAL HEAD FULLY ADJUSTABLE EMERGENCY LIGHTING UNIT WITH 90 MINUTE MAINTENANCE FREE SEALED LEAD CALCIUM	120	СТХ6	SURFACE/ WALL	(2) 5.4W
	BATTERY. FLAME RATED UV STABLE THERMOPLASTIC HOUSING. WHITE FINISH. FIVE YEAR WARRANTY. UL LISTED.		PHILIPS CHLORIDE		
'F'	1,800 LUMEN LED WALL SCONSE WITH LOW TEMPERATURE EMERGENCY DRIVER AND PHOTOCELL. TYPE III DISTRIBUTION. BRONZE FINISH. UL LISTED WET LOCATIONS. DLC LISTED.	UNV	VWPV-LED18/740-T3-DBZ-PC- EM/BSL722LT-EDD*IN-UNV	BUILDING/ WALL	LED
			H.E. WILLIAMS		
'G'	7"X4' HIGH EFFICIENCY, ENCLOSED AND GASKETED LED LUMINAIRE. NON-CONDUCTIVE, NON-CORROSIVE HOUSING.	UNV	DWPE70L840-4-UNV	SURFACE/ CEILING	LED
	POLYCARBONATE LENS, 7,000 NOMINAL LUMENS DELIVERED. 4000K COLOR. 0-10V DIMMING. WHITE FINISH. MOUNTING BRACKETS. FIVE YEAR WARRANTY. DLC AND UL LISTED WET LOC		PHILIPS DAYBRITE		
'H'	LED WALL PACK. FULL CUT-OFF OPTICS. (-40°C TO 40°C) OPERATING RANGE. 6,900 LUMENS, 4000K COLOR. TYPE III DISTRIBUTION. PHOTOCELL. BRONZE FINISH. UL LISTED WET	120	LPW32-71BZPCB	BUILDING/ WALL	LED
	LOCATIONS.		PHILIPS STONCO		
'X'	LED EXIT SIGN. IMPACT RESISTANT THERMOPLASTIC WHITE HOUSING. RED FACE PLATES WITH UNIVERSAL CHEVRONS AND MOUNTING. LOW ENERGY CONSUMPTION. 90 MINUTE NICKEL	120	VERWEM	UNIVERSAL	LED
	CADMIUM BATTERY. UL LISTED.		PHILIPS CHLORIDE		



## GENERATOR GROUNDING GRID ELEVATION DETAIL



TYPICAL TRENCH DETAIL
SCALE: N.T.S.



GENERATOR GROUNDING
GRID PLAN VIEW

## ELECTRICAL ABBREVIATIONS

١	L'ILL	CINICAL ADDIEVIATIONS
	Α	AMPERES
١	A.F.F.	ABOVE FINISHED FLOOR
١	AWG	AMERICAN WIRE GAUGE
١	С	CONDUIT
١	CIR	CIRCUIT
١	FA	FIRE ALARM
١	FAAP	FIRE ALARM ANNUNCIATOR PANEL
١	FACP	FIRE ALARM CONTROL PANEL
١	FT	FEET
١	G	GROUNDED
١	HP	HORSEPOWER
١	KAIC	INTERRUPTING CAPACITY (KILOAMPERE)
١	KVA	KILOVOLT-AMPERE
١	KW	KILOWATT
١	NEC	NATIONAL ELECTRIC CODE
١	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASS.
١	NIC	NOT IN CONTRACT
١	Р	POLE
١	RM	ROOM
١	S	SMOKE DETECTOR
١	UC	UNDERGROUND CONDUIT
١	UL	UNDERWRITER'S LABORATORY
١	UTIL	UTILITY
١	V	VOLTS
١	VA	VOLT-AMPERES
Į	W	WATTS
	#	WIRE SIZE IN AWG, OR MCM WHEN INDICATED
- 1	"	•

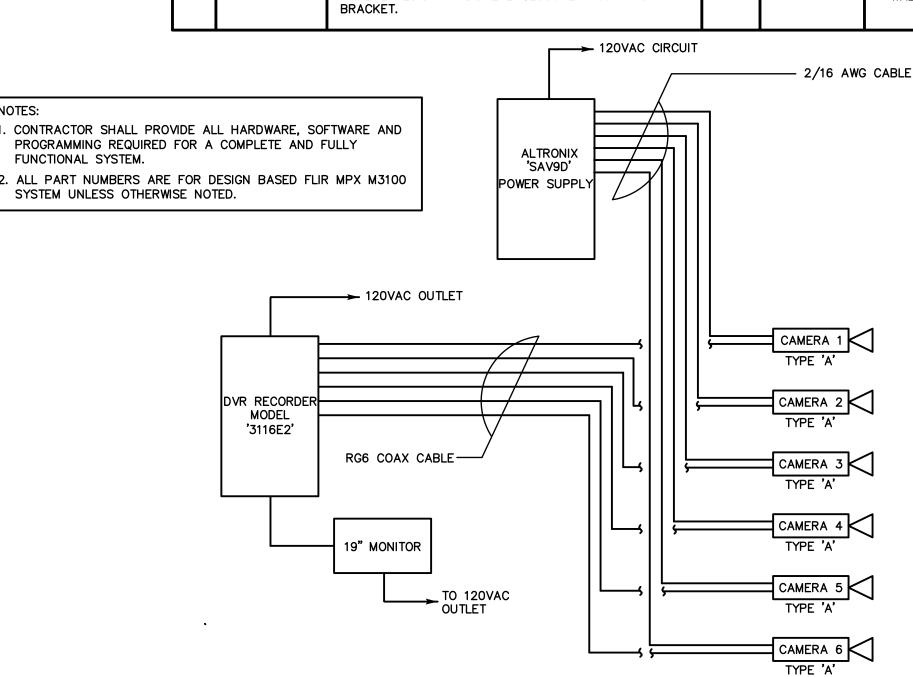
# ELECTRICAL SYMBOL LIST

$\bigoplus$	DUPLEX RECEPTACLE GFCI - GROUND FAULT CIRCUIT INTERRUPTER IG - ISOLATED GROUND WP - WEATHERPROOF L - LOCKABLE COVER
	SPECIAL PURPOSE CONNECTION
W	SWITCH (NONE) - SINGLE POLE 2 - TWO POLE 3 - THREE WAY 4 - FOUR WAY D - DIMMER TOL - THERMAL OVERLOAD PROTECTION DEVICE
<u> </u>	COMBINATION STARTER/DISCONNECT SWITCH
	DISCONNECT SWITCH
1LP1 2	BRANCH CIRCUIT HOMERUN (ARROWS INDICATE CIRCUIT NUMBERS)

## **ELECTRICAL GENERAL NOTES**

- 1. SEE SPECIFICATIONS, DIVISION 26 ELECTRICAL.
- 2. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR AND EQUIPMENT.
- 3. ELECTRICAL PLANS AND DETAILS AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES. CONNECTORS, BENDS, FITTINGS, HANGERS AND ADDITIONAL PULL AND JUNCTION BOXES
- 4. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED, LISTED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
- 5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- 6. ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- 7. THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE 2014 NATIONAL ELECTRICAL CODE (NEC) WITH CONNECTICUT AMENDMENTS.
- 8. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS AND RELATED ATTACHMENTS)".
- 9. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT
- 10. THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
- 1. THE TERM "SPACE" ON PANELBOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH ALL NECESSARY BUS AND FITTINGS TO
- INSTALL THE DEVICE AT SOME FUTURE DATE". 12. ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
- 13. COORDINATE ELECTRICAL WORK WITH OWNER.
- 14. COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
- 15. TURN OVER TO THE OWNER ALL MANUFACTURERS WARRANTIES FOR EQUIPMENT AND MATERIAL PROVIDED.
- 16. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL EQUIPMENT HAS BEEN BASED ON GENERAL ELECTRIC PRODUCTS. 17. THE CONTRACTOR MAY SUBSTITUTE EQUIPMENT OF ANOTHER MANUFACTURER IF SAID MANUFACTURER IS AN ACCEPTABLE MANUFACTURER LISTED WITHIN
- SPECIFICATIONS AND EQUIPMENT IS OF EQUAL QUALITY AND RATING, SUBJECT TO OWNER'S AND ENGINEER'S REVIEW AND ACCEPTANCE. 18. UNLESS OTHERWISE INDICATED, ALL ENCLOSURES FOR EQUIPMENT PROVIDED
- SHALL BE NEMA TYPE 3R. 19. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS TO BE COPPER THHN/THWN.
- 20. UNLESS OTHERWISE INDICATED, ALL OUTLET AND SWITCH BOXES TO BE CAST IRON WITH THREADED HUBS.
- 21. BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
- 22. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES. 23. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC
- CODE (NEC) ANSI/NFPA 70 AND NFPA 110. 24. THE MEASUREMENT FROM ABOVE FINISHED FLOOR (AFF) SHALL BE TAKEN FROM THE FINISHED FLOOR SURFACE TO THE TOP OF WALL RECEPTACLES AND SWITCH BOXES, TO THE CENTER LINE OF WALL LIGHTING OUTLET BOXES, TO THE BOTTOM OF WALL MOUNTED EQUIPMENT ENCLOSURES, TO THE CENTER
- LINE OF THE TOP MOST SWITCH HANDLE, OR TO THE LOWEST SURFACE OF CEILING LIGHTING FIXTURES OR OTHER CEILING MOUNTED EQUIPMENT. 25. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS ARE NO. 12 AWG.
- 26. CONDUIT SIZE FOR INDICATED CONDUCTORS SHALL BE BASED ON CHAPTER 9 OF NEC.
- 27. THE CONTRACTOR MAY GROUP BRANCH CIRCUIT HOME RUN CONDUCTORS IN A SINGLE RACEWAY IN ACCORDANCE WITH NEC ARTICLE 300-17, AND ARTICLE 310, NOTE 8 OF NOTES TO TABLES 310-16 THROUGH 310-19.

CAMERA SCHEDULE										
TYPE	MANUFACTURER	DESCRIPTION	VOLTS	MODEL NO.	MOUNTING					
'A'	FLIR	1/2.8" 2.1 MEGAPIXEL FIXED CAMERA WITH 2.8-12MM VARI-FOCAL MOTORIZED LENS. HIGH RESOLUTION. VANDAL RESISTANT DOME ENCLOSURE. MOUNTING BRACKET.	12VDC	C237VD/P S3WF2G	OUTDOOR SURFACE WALL					



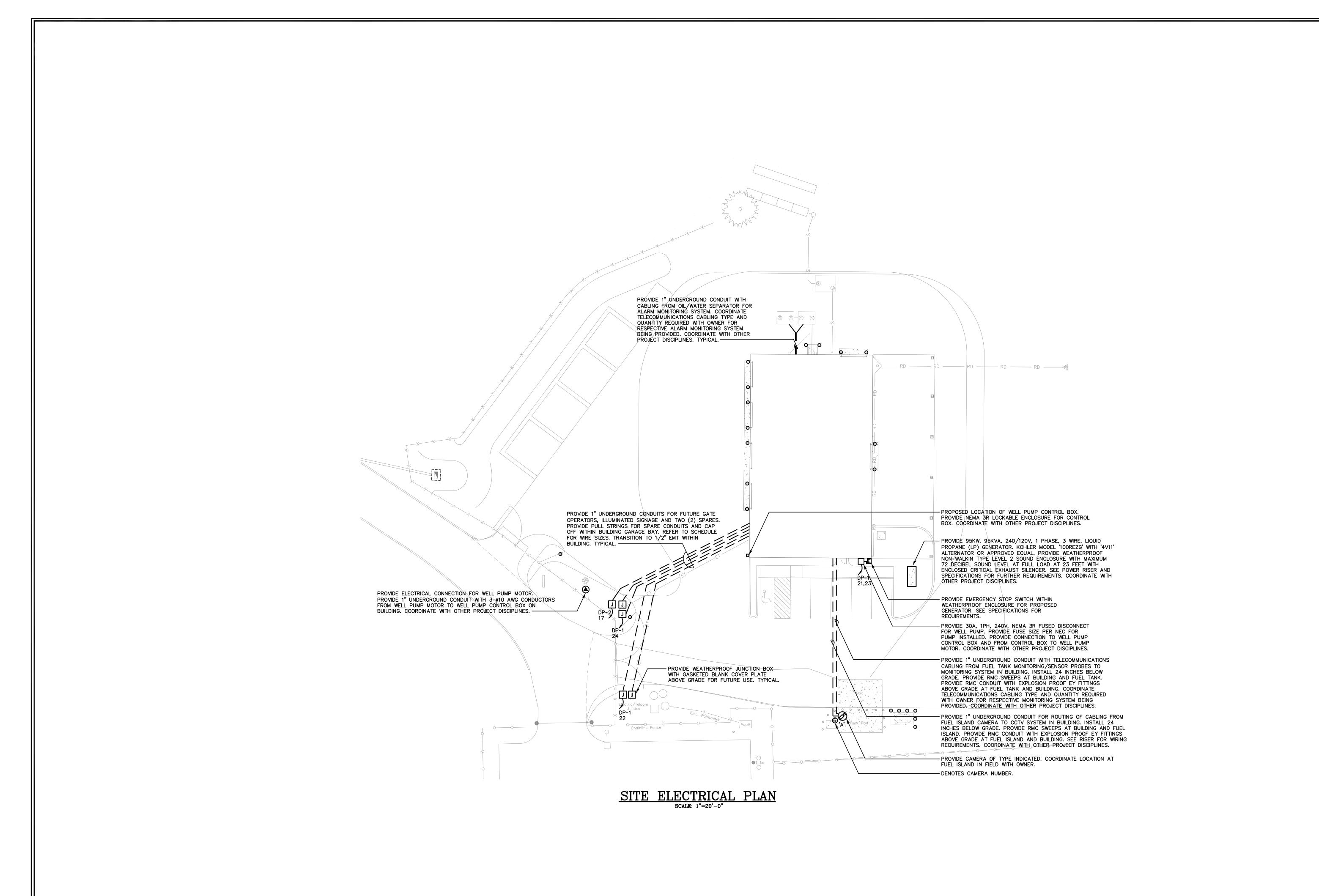
CCTV SYSTEM RISER SCALE: N.T.S.

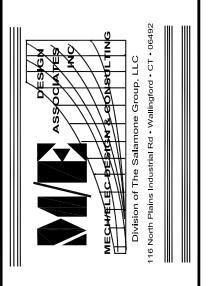
TOWN

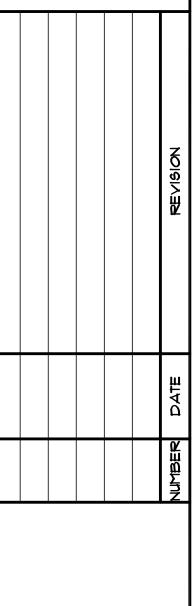
LA PROJECT NO.

PROJ. ENGINEER

E-5







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CLA PROJECT NO.
CLA-15-55
PROJ. ENGINEER

94/ SHEET NO.