THE TOWN OF GLASTONBURY, CONNECTICUT

New Town Facilities and Maintenance Barn

2109 MAIN STREET, GLASTONBURY, CT.

SILVER / PETRUCELLI + ASSOCIATES

Architects/Engineers/Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340

Tel. 203 230 9007 Fax. 203 230 8247

silverpetrucelli.com

100% Construction Documents
October 3, 2014

ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.P.	ASBESTOS CEMENT PIPE
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
A.C.T.	ACOUSTICAL CEILING TILE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
AVG.	AVERAGE
BSMT.	BASEMENT
BD.	BOARD
BRG.	BEARING
BRK.	BRICK
BIT.	BITUMINOUS
BLK.	BLOCK
BLDG.	BUILDING
B.S.	BOTH SIDES
C.I.	CAST IRON
C.I.P.	CAST IN PLACE CONCRETE
C.B.	CATCH BASIN
C.B.R.	CATCH BASIN TO BE REMOVED
CLG.	CEILING
℄	CENTER LINE
C. BD.	CHALK BOARD
C.C.	CURB CUT
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
CONF.	CONFERENCE
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS, CONTINUE
C.J.	CONTROL JOINT/ CONSTRUCTION JOINT
CONTR.	CONTRACTOR
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DR.	DOOR
DN.	DOWN
DWG.	DRAWING
E	ELECTRICAL
EA.	EACH
EC.TR.	EXISTING CEILING TO REMAIN
ED.	EDUCATION
ELEC.	ELECTRICAL
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENL.	ENLARGED
ENT.	ENTRANCE
EP.	EPOXY PAINT
EQ.	EQUAL
ES.	EXPOSED STRUCTURE
E.T.R.	EXISTING TO REMAIN
E.W.	EACH WAY
E.W./E.F.	EACH WAY/EACH FACE
EXAM.	EXAMINATION
EXIST	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
F.F.	FINISHED FLOOR
FIN.	FINISH, FINISHED
FIXT.	FIXTURE
FL.	FLOOR
FT.	FOOT
F.S.	FAR SIDE
FTG.	FOOTING
G	GAS
GA.	GAGE, GAUGE
GEN.	GENERAL
G.C.	GENERAL CONTRACTOR
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
H.C.	HANDICAPPED
HD.	HEADED
HDWR.	HARDWARE
HGT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL, HORIZONTALLY
H.B.	HOSE BIBB
HR.	HOUR
HYD.	HYDRANT
INSUL.	INSULATION, INSULATED
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
K.P.	KICK PLATE
LAM.	LAMINATE
L.F.	LINEAL FOOT
LG.	LONG
LOC.	LOCATION
L.P.	LOW POINT
LTG.	LIGHTING
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.C.C.	OCCUPANT
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
P.C.B.	PAINTED CONCRETE BLOCK
P.G.B.	PAINTED GYPSUM BOARD
PL.	PLATE
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PREP.	PREPARATION
P.T.	PRESSURE TREATED
PTD.	PAINTED
P.V.C.	POLYVINYL CHLORIDE
R.	RISER
RAD.	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
R.D.	ROOF DRAIN
REINF.	REINFORCEMENT
REQD.	REQUIRED
R.H.	ROOF HATCH
R.L.	ROOF LEADER
RM.	ROOM
S.	STORM
SAN.	SANITARY
S.C.	SEALED CONCRETE
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	STEP FOOTING
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
SQ. FT.	SQUARE FEET
STL.	STEEL
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED, SUSPENSION
S.W.	SHEAR WALL
S.W.F.	SHEAR WALL FOOTING
T.	TELEPHONE
T&B	TOP & BOTTOM
TECH.	TECHNOLOGY
T.O.	TOP OF
T.O.F.	TOP OF FRAME
T.O.S.	TOP OF STEEL
T/S	TOP OF SLAB
T/W	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITE TILE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.	WATER
W/	WITH
W.C.J	WALL CONTROL JOINT
WD.	WOOD
WF.	WIDE FLANGE
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
@	AT
Φ	DIAMETER

SYMBOL LEGEND

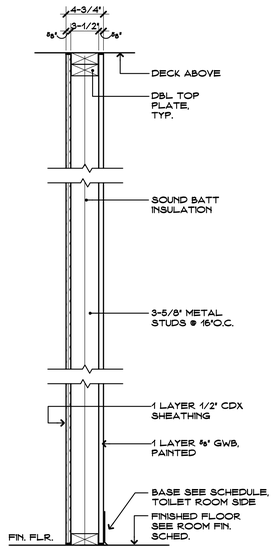
- XXX — ROOM NUMBER
- XX — DOOR NUMBER
- XX — DEMOLITION NOTE
- XX — WINDOW TYPE
- XX / XX — DETAIL NUMBER / DRAWING NUMBER
- XX — CONSTRUCTION NOTE
- X / X — SECTION / DETAIL DRAWING NUMBER
- XX / XX — WALL SECTION DRAWING NUMBER
- XX / XX — INTERIOR / EXT. ELEVATION DRAWING NUMBER
- REFERENCE POINT
- XX — WALL TYPE
- X — REVISION MARK

GRAPHIC LEGEND

- CONCRETE
- CONCRETE MASONRY UNITS
- BRICK
- STONE
- METALS
- COMPACTED GRAVEL
- EARTH
- PLYWOOD
- ACOUSTICAL TILE
- WOOD FRAMING - THROUGH MEMBER
- WOOD FRAMING - INTERRUPTED MEMBER
- FINISHED WOOD
- BATT INSULATION
- RIGID INSULATION
- GYPSUM BOARD

GENERAL NOTES

1. FOR SPECIFIC WALL DESIGNATIONS AND RATED DESIGNS, SEE THIS DWG A1.
2. GENERAL NOTES FOUND ANYWHERE IN THE CONTRACT DOCUMENTS RELATE TO ALL DRAWINGS AND SPECIFICATIONS.
3. ALL MATERIALS & EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED AS 'EXISTING'.
4. ALL EXISTING UTILITIES & EQUIPMENT LOCATIONS ARE APPROXIMATE - CONTRACTOR TO FIELD VERIFY.
5. ASSUME THAT ALL OF THE EXISTING STEEL IS PAINTED WITH LEAD BASED PAINT. CONTRACTOR IS RESPONSIBLE FOR THE PROPER SAFETY PRECAUTIONS WHEN DISTURBING THE PAINT. THIS INCLUDES THE STATE OF CONNECTICUT AND OSHA.
6. ALL MATERIALS USED IN THE SCOPE OF WORK MUST NOT CONTAIN ANY ASBESTOS AND THE CONTRACTOR MUST CERTIFY THAT TO THE BEST OF HIS/HER KNOWLEDGE THAT MATERIALS USED IN THE SCOPE OF WORK ARE ASBESTOS FREE.
7. PROVIDE ALL TEMPORARY PARTITIONS AND PROTECTION METHODS TO INSURE THAT THE OWNERS MATERIALS, EQUIPMENT AND OPERATIONS ARE PROTECTED AND REMAIN OPERATIONAL DURING CONSTRUCTION.
8. THE DRAWINGS AND THE SPECIFICATIONS ARE COMPLEMENTARY - WHAT IS REQUIRED BY ONE IS REQUIRED BY BOTH.



TYPE 1

3-1/2" WOOD STUDS @ 16" O.C. ⅝" GWB, TOILET RM SIDE, PNTD. 1/2" CDX SHEATHING, SOUND ATTENUATION BATTS.

PARTITION TYPES 1/A1

SCALE: 1½" = 1'-0"

LIST OF DRAWINGS

Project Title:
New Town Facilities and Maintenance Barn
Project # GL-2015-14
Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

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Revision:	Description:	Date:	Revised By:

Drawing Title: GENERAL INFORMATION

Date: 10.3.14
Scale: AS NOTED
Drawn By: DW
Project Number: 13.235

Drawing Number: A1

FILE: H:\DWG\Streets\Main St\PW-1406 2109 Main St. Facilities Maintenance Barn\PW-1406 2109 Main St. Facilities Maintenance Barn Construction Plan.dwg USER: Steven Troy DATE: 10/22/2014

SURVEY NOTES:

LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WHERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED IN MAY 2014.

THERE IS NO BOUNDARY/DETERMINATION OPINION.

NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.

HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 – (NAD83).

ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 – (NAVD88).

THE 100 FOOT UPLAND REVIEW LINE WAS OBTAINED FROM A PLAN TITLE "SITE DEVELOPMENT PLAN CARSON SUBDIVISION PREPARED FOR CAROL E. CARSON GLASTONBURY, CONN. REINO E. HYYPPA & ASSOCIATES CIVIL ENGINEERS & LAND SURVEYORS 124 HEBRON AVENUE GLASTONBURY, CONN 06033 (203) 633–5218 SCALE: 1"=40' DATE: 11–8–94 MAP No. 66–93–1A"

THIS PLAN WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.

REPRODUCTIONS OF THIS PLAN ARE INVALID IF THEY DO NOT BEAR THE IMPRESSION SEAL OF THE UNDERSIGNED LAND SURVEYOR AND/OR PROFESSIONAL ENGINEER.

LIGHTING NOTES:

SITE LIGHTING SHALL CONSIST OF MOUNTED LIGHTING FIXTURES DIRECTED AT THE PARKING LOT AREAS. SUCH LIGHTING FIXTURES WILL BE DARK SKY COMPLIANT.

SCOPE OF WORK / CONSTRUCTION SEQUENCE

NOTE: ALL WORK DESCRIBED BELOW IS INCLUDED IN THE CONTRACT UNLESS SPECIFICALLY NOTED AS "BY TOWN".

1. CONTACT "CALL BEFORE DIG" A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION ACTIVITIES. LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLAN IS FROM RECORD DRAWINGS AND OTHER SOURCES AND SHOULD BE CONSIDERED APPROXIMATE.
2. STAKE LIMITS OF CLEARING AND LOCATION OF PERIMETER SILT FENCE (ALL CONSTRUCTION STAKING BY TOWN).
3. CONTRACTOR TO FLAG TREES TO BE REMOVED FOR REVIEW BY TOWN TREE WARDEN. (10 DAY POSTING OF TREES TO BE REMOVED IS REQUIRED).
4. INSTALL SEDIMENTATION CONTROL SYSTEM AT LIMITS SHOWN. MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH SECTION 2.19 OF THE CONNDOT FORM 816.
5. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT THE LOCATION INDICATED. STONE SHALL BE NO. 3 STONE AS PER SECTION M01.01 OF THE CONNDOT FORM 816. GEOTEXTILE SHALL MEET REQUIREMENTS OF THE CONNDOT PUBLICATION "QUALIFIED PRODUCTS LIST FOR CONNECTICUT DEPARTMENT OF TRANSPORTATION PRODUCTS", LATEST EDITION FOR THE CATEGORY "SEPARATION – MEDIUM SURVIVABILITY".
6. PERFORM CLEARING AND GRUBBING WITHIN THE LIMITS SHOWN ON THE PLAN AS PER SECTION 2.01 OF THE CONNDOT FORM 816. PROTECT TREES TO REMAIN WITH ORANGE CONSTRUCTION FENCE. (BRUSH, STUMPS, WOOD, AND EXCESS OR UNSUITABLE SOIL CAN BE DISPOSED OF BY THE CONTRACTOR AT THE TOWN BULKY WASTE FACILITY ON TRYON STREET AT NO CHARGE.)
7. REMOVE AND DISPOSE OF SOD WITHIN LIMITS OF CONSTRUCTION. STRIP AND STOCKPILE TOPSOIL FOR REUSE BY OWNER. PROTECT TOPSOIL STOCKPILE WITH SILT FENCE.
8. EXCAVATE AND INSTALL CONCRETE FOOTINGS AND FOUNDATION. BACKFILL AND ROUGH GRADE AROUND FOUNDATION AS PER PROJECT SPECIFICATIONS.
9. SAWCUT AND REMOVE PAVEMENT WITHIN EXISTING BITUMINOUS DRIVEWAY AS NECESSARY FOR UTILTY INSTALLATION. PERFORM TEMPORARY BITUMINOUS PAVEMENT PATCH ACCORDING TO PROJECT PLANS AND TOWN OF GLASTONBURY STANDARDS AFTER UTILITY INSTALLATION IS COMPLETE.
10. INSTALL SEWER LATERAL AND PRECAST CONCRETE MANHOLE ACCORDING TO PROJECT PLANS AND TOWN OF GLASTONBURY STANDARDS AS DESCRIBED IN THE "PUBLIC IMPROVEMENT STANDARDS MANUAL" AVAILABLE FROM THE ENGINEERING DEPARTMENT HOMEPAGE. (TOWN OF GLASTONBURY SEWER PERMIT IS REQUIRED FOR THIS WORK). EXTEND SEWER PIPE TO TOILET ROOM LOCATION SHOWN ON THE ARCHITECTURAL PLANS.
11. INSTALL DOMESTIC AND FIRE PROTECTION WATER SERVICES AS SHOWN ON THE PLANS. COORDINATE ALL WORK WITH THE UTILITY COMPANY AND OBTAIN ALL PERMITS AS REQUIRED. ALL WATER SERVICE MATERIALS, EQUIPMENT, AND INSTALLATION METHODS SHALL CONFORM TO THE "MDC WATER SERVICE STANDARDS / APPROVED MATERIALS LIST" AS PUBLISHED ON THE METROPOLITAN DISTRICT COMMISSION WEBSITE, LATEST EDITION, AND ALL APPLICABLE PUBLIC HEALTH CODE REQUIREMENTS.
12. WATER PIPES SHALL BE FLUSHED PER AWWA C–651. TESTING AND DISINFECTION SHALL BE PER ASTM 651–86 SECTION 1–10 AND AS REQUIRED BY PUBLIC HEALTH CODE AND THE MDC. PRESSURE TESTING SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C–600 (150 PSI FOR 2 HOURS). BACTERIOLOGICAL TESTING AS REQUIRED FOR MDC AND PUBLIC HEALTH CODE IS INCLUDED IN THE CONTRACT.
13. INSTALL CONDUITS AND GALVANIZED SWEEPS FOR ELECTRIC, TELEPHONE, AND CATV SERVICE AS SHOWN ON THE PLANS AND AS REQUIRED BY APPLICABLE UTILITY COMPANIES.
14. COORDINATE WITH CL&P FOR INSTALLATION OF NEW ELECTRIC SERVICE, INCLUDING REQUEST FOR NEW SERVICE AND ALL COSTS ASSOCIATED THEREWITH. ELECTRIC SERVICE MATERIALS, EQUIPMENT, AND CONSTRUCTION METHODS SHALL CONFORM TO THE DOCUMENT TITLED "INFORMATION AND REQUIREMENTS FOR ELECTRIC SUPPLY BELOW 600 VOLTS", LATEST EDITION, AS PUBLISHED BY NORTH EAST UTILITIES, AND ALL BUILDING CODE REQUIREMENTS.
15. PERFORM TRENCH EXCAVATION AND BACKFILL FOR PROPOSED GAS SERVICE PER CNG REQUIREMENTS AS DESCRIBED IN THE PROJECT SPECIFICATIONS. COORDINATE WITH CONNECTICUT NATURAL GAS FOR INSTALLATION OF GAS SERVICE TO NEW BUILDING. (INSTALLATION OF PIPING IS BY CNG).
16. INSTALL PROPOSED STORM DRAINAGE SYSTEM, INCLUDING DRYWELL, CATCH BASIN, LEACHING GALLEY, SWALE WITH EROSION CONTROL MATTING, AND ROOF LEADER PIPING (BY TOWN). EROSION CONTROL MATTING SHALL BE EAST COAST EROSION BLANKETS MODEL ECL–2B OR OTHER APPROVED "TYPE E" MATTING AS LISTED IN THE CONNDOT PUBLICATION ""QUALIFIED PRODUCTS LIST FOR CONNECTICUT DEPARTMENT OF TRANSPORTATION PRODUCTS", LATEST EDITION.
17. FORM SUBGRADE FOR PARKING LOT, INSTALL BASE MATERIAL AND PAVE PARKING LOT AS PER PROJECT DETAILS AND RELEVANT SECTIONS OF THE CONNDOT FORM 816 (BY TOWN).
18. FINE GRADE WITHIN LIMITS OF DISTURBANCE, INSTALL 4" OF TOPSOIL AND TURF ESTABLISHMENT (BY TOWN).
19. INSTALL PROPOSED PLANTINGS AS SHOWN ON THE PLAN (BY TOWN).

Town of Glastonbury

2155 MAIN STREET • P.O. BOX 6523 • GLASTONBURY, CONNECTICUT 06033-6523

TOWN PLAN AND ZONING COMMISSION

SECTION 12 SPECIAL PERMIT WITH DESIGN REVIEW

APPLICANT/OWNER:
TOWN OF GLASTONBURY
2155 MAIN STREET
P.O. BOX 6523
GLASTONBURY, CT 06033

FOR: 2109 MAIN STREET

MOVED, that the Town Plan and Zoning Commission approve the application of the Town of Glastonbury for a Section 12 Special Permit with Design Review – maintenance barn for Facilities Department – 2109 Main Street – Residence A Zone, in accordance with details on file in the Office of Community Development and the following plans:

"PLAN DEPICTING PROPOSED FACILITIES MAINTENANCE BARN LOCATED AT 2109 MAIN STREET GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SCALE: AS SHOWN DRAWN BY: S. TROY CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 7-16-2014 SHEET NO. 1 OF 2 ISSUED FOR PERMITTING 7-18-2014"

"DETAILS DEPICTING PROPOSED FACILITIES MAINTENANCE BARN LOCATED AT 2109 MAIN STREET GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SCALE: AS SHOWN DRAWN BY: S. TROY CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 7-16-2014 SHEET NO. 2 OF 2 ISSUED FOR PERMITTING 7-18-2014"

"FIRST FLOOR PLAN: 4,025 GSF TOWN OF GLASTONBURY NEW TOWN FACILITIES AND MAINTENANCE BUILDING: PLANS AND ELEVATIONS GLASTONBURY, CT SILVER/PETRUCELLI & ASSOCIATES ARCHITECTS & ENGINEERS 3190 WHITNEY AVENUE, HAMDEN, CT 06518 TEL: 203 230 9007 FAX: 203 230 8247 WWW.SILVERPETRUCELLI.COM"

and in compliance with the following conditions:

1. Compliance with conditions as recommended by the Conservation Commission during its meeting of July 24, 2014.
2. Compliance with standards contained in a report from the Fire Marshal, File #14-054, plans reviewed 5-15-14.
3. A metal roof shall be a permitted alternative to asphalt shingles.
4. Lighting details shall be depicted on final plans for filing.

APPROVED: TOWN PLAN AND ZONING COMMISSION
AUGUST 19, 2014

PATRICIA V. LOW, ACTING CHAIRMAN

MEMORANDUM

To: Town Plan & Zoning Commission

From: Thomas Mocko, Environmental Planner TM

Date: July 28, 2014

Re: Recommendation to the Town Plan and Zoning Commission concerning a Section 12 Special Permit with Design Review – construction of a 115-foot by 35-foot maintenance barn – 2109 Main Street – Residence A Zone – Stephen Braun, P.E., Assistant Town Engineer and Dave Sacchitella, Building Superintendent

During its Special Meeting of July 24, 2014, the Conservation Commission recommended to the Town Plan and Zoning Commission approval of a Section 12 Special Permit with Design Review for construction of a 115-foot by 35-foot maintenance barn at 2109 Main Street. The attached motion was approved by the Commission.

APPROVED RECOMMENDATION TO THE TOWN PLAN & ZONING COMMISSION

MOVED, that the Conservation Commission recommends to the Town Plan and Zoning Commission approval of a Section 12 Special Permit with Design Review concerning the construction of a 115-foot by 35-foot maintenance barn at 2109 Main Street, in accordance with plans on file in the Office of Community Development, and in compliance with the following conditions:

1. The plot plan required for building permit application shall contain and comply with these conditions of approval. The plot plan shall indicate the limits of vegetative clearing, existing and proposed contours, soil erosion and sediment controls, all subsurface drainage, all stockpile areas, and temporary and permanent vegetative stabilization measures, including details of seedbed preparation, seed mix selection, application rates, seeding dates and mulching requirements. Vegetative clearing for stockpiling shall be minimized and subject to the approval of the Environmental Planner.
2. Metal waste containers shall be provided at the site to facilitate the collection of refuse material generated from construction activities. Such material shall not be buried or burned at the site.
3. Installation of soil erosion and sedimentation control and stabilization measures shall be the Permittee's responsibility. Once installed these measures shall then be inspected by the Environmental Planner prior to land disturbance activities. Afterwards it then shall be the Permittee's responsibility to inspect these control measures during, and immediately following, substantial storm events and maintain and/or replace the control measures, when needed, on a regular basis until the site is vegetatively stabilized. Hay bales shall be replaced every 60 days. The Environmental Planner is hereby authorized to require additional soil erosion and sediment controls and stabilization measures to address situations that arise on the site.
4. Prior to the issuance of a Certificate of Occupancy, certification from a professional engineer shall be required confirming that the stormwater management system was constructed in conformance with the approved design.
5. The Office of Community Development shall be authorized to modify the location and design of the dry wells based upon soil conditions. Test pits shall be dug and inspected by Office of Community Development staff in order to determine the best location and design for dry wells.

TOWN OF GLASTONBURY
FIRE MARSHAL'S OFFICE
SITE PLAN/SUBDIVISION REVIEW

PROJECT: Facilities Maintenance Building **LOCATION:** 2109 Main Street

___NEW CONSTRUCTION ___CHANGE OF USE ___SUBDIVISION _xx_COMMERCIAL

OCCUPANCY CLASSIFICATION: Group S Reserved Land Zone **F.M.O. FILE #** 14-054

PROPOSED FIRE PROTECTION: via 8" MDC water main &the GVFD

ENGINEER'S PLAN # A-1 INITIAL PLAN___ REVISED PLAN____

ENGINEER: Silver Petrucelli

ADDRESS AND PHONE: 315590 Whitney Ave Hamden CT 06518 -203-230-9007

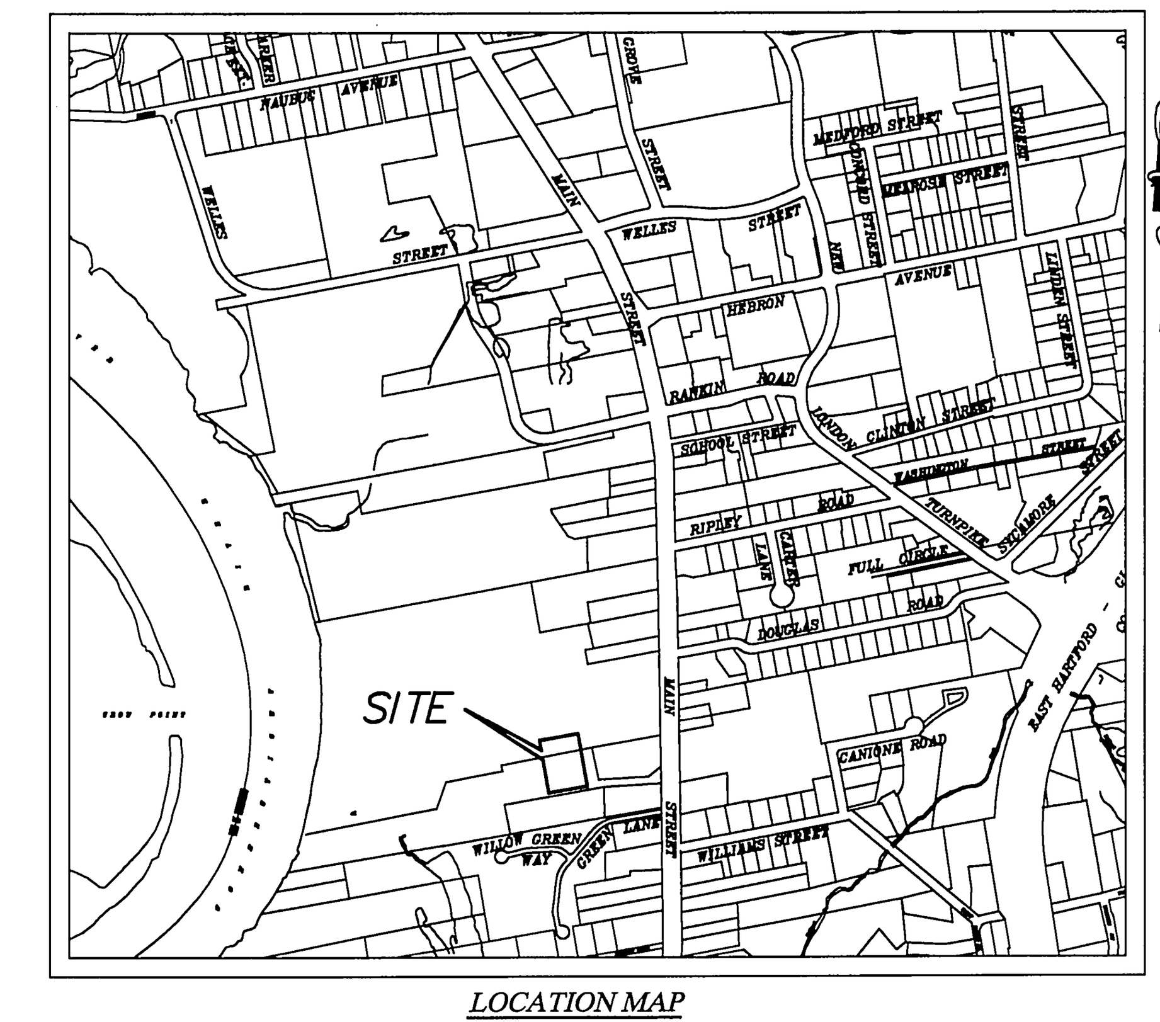
DATE PLANS RECEIVED: 5-15-14 **DATE PLANS REVIEWED:** 5-15-14

COMMENTS: The building will require to be posted with address numerals – Recommend that a master traffic direction and signage plan for the entire Town Hall campus be developed.

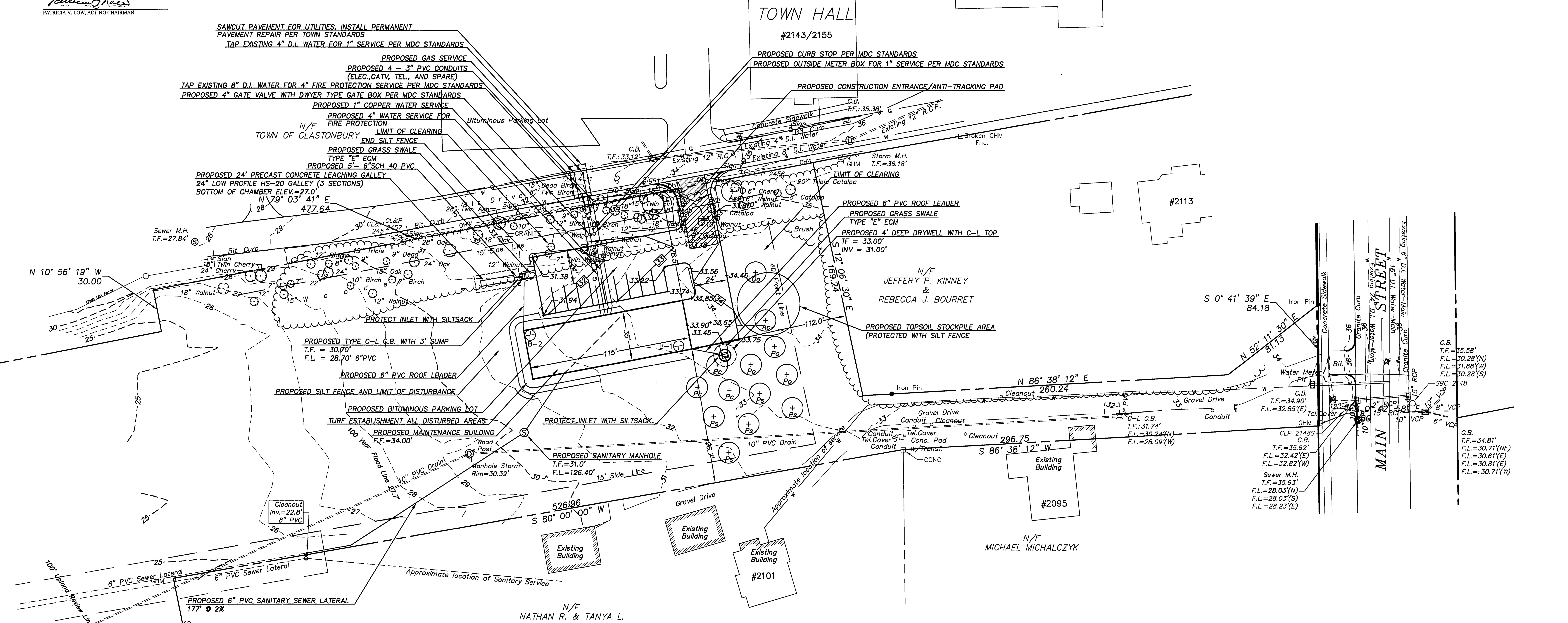
A rapid access vault is required to be provided on the building.

An exterior mounted visual flashing light will be required if the building is provided with a fire alarm.

REVIEWED BY: _____



LOCATION MAP
SCALE: 1" = 1000'



Plant List	Size	Quantity
Pc – Pinus Cembra – Swiss Stone Pine	5'–6'h	3
Ps – Pinus Strobus Fastigiata – Fastigiate White Pine	8'–10'h	5
Po – Picea Omerika – Serbian Spruce	8'h	3
Ac – Abres Concolor – Concolor Fir	6'–8'h	1
Oa – Oxydendron Arboreum – Sourwood	1.5"–2"	1
As – Acer Saccharum – Sugar Maple	2"–2.5"	2

Boring Log
Investigated on September 24, 2014 as shown on plan.

B–1

0–1'	Sandy topsoil
1'–4'	Light br. fine sand, little silt
4'–10.5'	Grey/br. silt, some clay,trace fine sand
10.5'–31.5'	Grey clay, little silt

B–2

0–0.83'	Sandy topsoil
0.83–4'	Light br. fine sand, little silt
4'–8'	Grey/br. silt, some clay, trace fine sand
8'–31.5'	Grey clay, little silt

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

PW-1406

DRAWING ISSUE STATUS		
2.	ISSUED FOR CONSTRUCTION	10–10–2014
1.	ISSUED FOR PERMITTING	7–18–2014
NO.	DESCRIPTION	DATE

SCALE: AS SHOWN	DATE:
DRAWN BY: S.Troy	7–16–2014
CHECKED BY: S.M.B.	10–10–2014
APPROVED BY: D.A.P.	10–10–2014
ST. FILE:	

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN IN THE LEFT MARGIN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE AT (860) 652–7735.

PLAN
DEPICTING PROPOSED FACILITIES MAINTENANCE BARN located at 2109 MAIN STREET GLASTONBURY, CONNECTICUT

SHEET NO. C1

GENERAL SEDIMENTATION AND EROSION CONTROL REQUIREMENTS:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE DEPARTMENT OF PHYSICAL SERVICES SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

1. ALL CONTROL MEASURES SHALL BE INSTALLED AS NOTED ABOVE AND AS SHOWN ON THE PLANS.
2. ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
3. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
4. NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
6. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY INDISTURBED.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM IN GRASSED AREAS OR WITH A SEDIMENTATION CONTROL SACK IN PAVED AREAS UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN ENVIROMENTAL PLANNER. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

PROJECT NARRATIVE:

THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW PAVED PARKING LOT TO SUPPORT 10 VEHICLES AND A 4025 S.F. FACILITIES MAINTENANCE BUILDING. THE AREA OF DISTURBANCE INCLUDES APPROXIMATELY 0.40 ACRES. STORMWATER WILL SHEET FLOW OFF THE PARKING LOT INTO TWO INFILTRATION DRYWELLS.

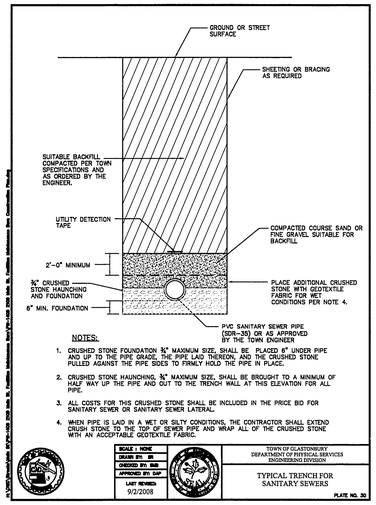
PROJECT SPECIFIC SEDENTATION AND EROSION CONTROL PLAN

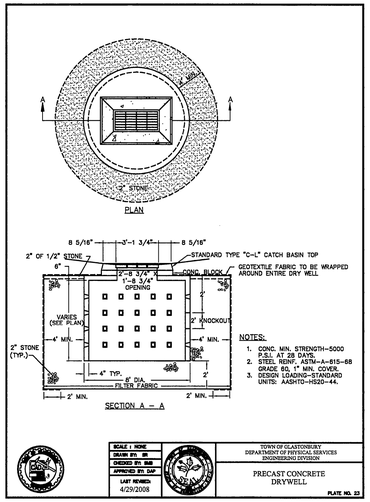
CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:

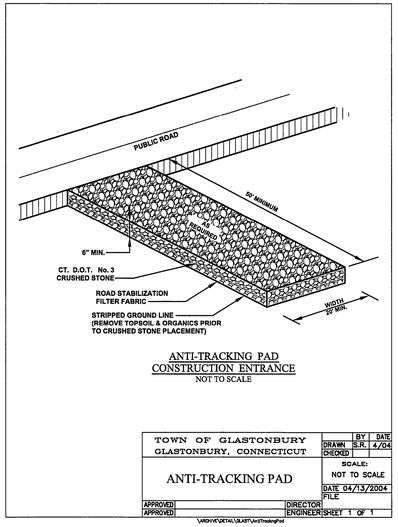
1. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.
2. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED ADJACENT TO STORM DRAIN INLETS, WETLAND, AND WATERCOURSES. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STAGE EXCAVATED MATERIAL FOR SHORT DURATIONS IN THE VICINITY OF STORM DRAIN INLETS, THESE INLETS SHALL BE PROPERLY PROTECTED AS DESCRIBED ON THE PLANS. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN LOCATIONS APPROVED IN ADVANCE BY THE ENGINEER, AND SUCH STOCKPILES SHALL BE RINGED WITH SEDIMENTATION CONTROL SYSTEM.
3. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH SIGNIFICANT POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.
4. TRAVEL AREAS: A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS AS REQUIRED TO PREVENT SOIL FROM BEING TRACKED OUT OF THE CONSTRUCTION SITE AND INTO THE ROAD. THIS CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS OF THE PROJECT HAVE BEEN RESTORED.
5. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY.

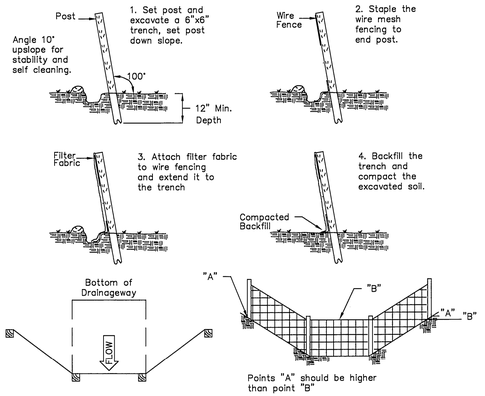
RESPONSIBLE PARTIES:

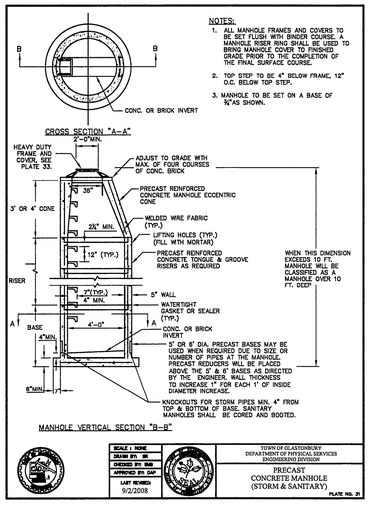
THE DEPARTMENT OF PHYSICAL SERVICES SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

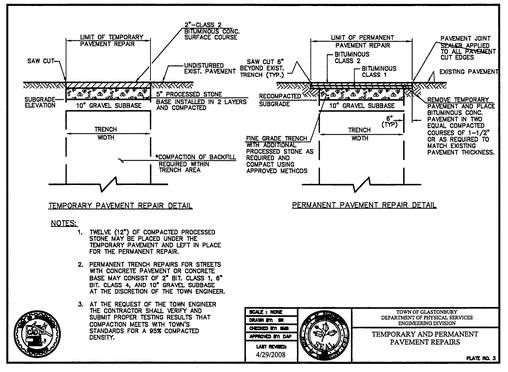


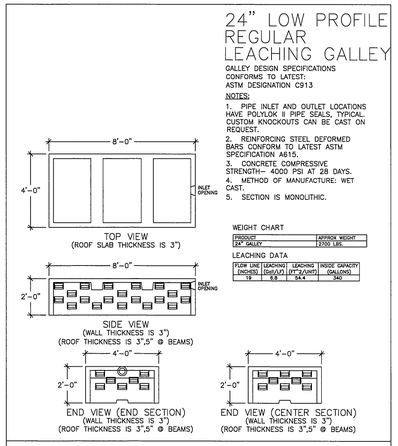


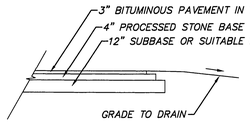


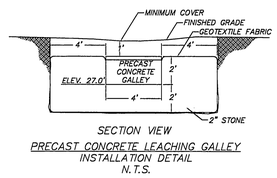


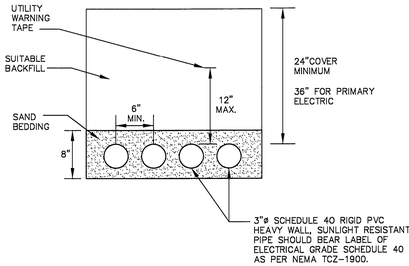












Certified to be substantially correct

DANIEL A. PENNINGTON P.E. Reg. No. 20101

NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	10-10-2014
1.	ISSUED FOR PERMITTING	7-18-2014

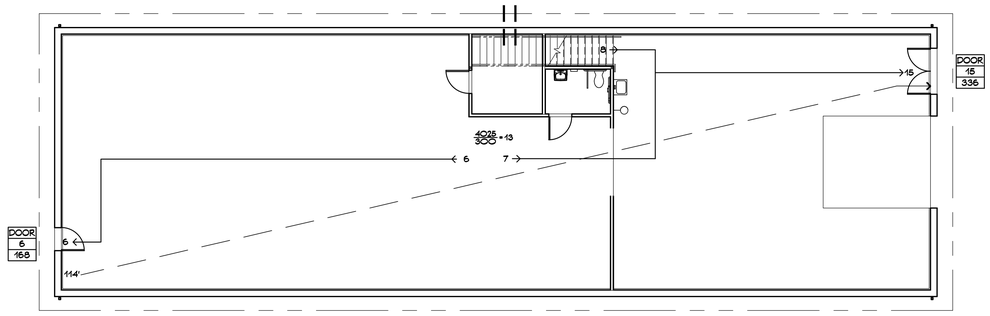
PW-1406

SCALE: AS SHOWN | DATE:
DRAWN BY: S.Troy | 7-16-2014
CHECKED BY: S.M.B. | 10-10-2014
APPROVED BY: D.A.P. | 10-10-2014
ST. FILE:

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE SHOWN IN THE LEFT MARGIN. IN THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT TOWN OF GLASTONBURY, ENGINEERING OFFICE AT (860) 652-7735.

DETAILS
DEPICTING PROPOSED FACILITIES MAINTENANCE BARN located at
2109 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. C2



EGRESS FLOOR PLAN (1 / A2)

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

NORTH

BUILDING CODE INFORMATION

DATE OF ORIGINAL CONSTRUCTION: 1966

1. **USE GROUP CLASSIFICATION (Chapter 3)**
   - (Primary): F1
   - (Incidental):

2. **CONSTRUCTION TYPE (Chapter 6)**
   - Minimum Type Required: VB
   - Actual Type Provided (existing):
   - (new): VB

3. **BUILDING HEIGHT (Chapter 5)**
   - Allowable Height (story/feet): 2 ST
   - Actual Height (story/feet): 2 ST / 40'
   - (Stories Above Grade): 2

4. **BUILDING AREA (Chapter 5)**
   - a) Building Area (first floor)
     - New construction: 4,025 sq.ft.
     - Total floor: 4,025 sq.ft.

5. **AREA MODIFICATIONS TO TABLE 503**

	N	E	W	S
Total Perimeter =	115 ft.	35 ft.	115 ft.	35 ft.
Open Perimeter =	115 ft.	35 ft.	115 ft.	35 ft.

Total Frontage (F) 300 ft. (building perimeter which fronts on a public way or open space having 20 feet open min.)

Perimeter (P) 300 ft. (perimeter of the entire building)

Width of open space (W) = 30

If=100[F/P−0.25]W/30

100[300 /300 −0.25]30 /30= 75

% Frontage increase (If) = 75 %

% of Allowable Tabular Area, At (table 503)	100 %
% of Increase for frontage, If (506.2)	75 %
% of Increase for automatic sprinklers, Is (506.3)	100 %
Total percentage factor	75 %
Conversion factor (Total percentage factor + 100)	1.75

6. **ALLOWABLE AREAS – ASSEMBLY USES, USE GROUP A-3 (FIRE AREA #1)** (Allowable Area 506.4)
   - a) ALLOWABLE AREA per floor (Aa): 1.75 (conversion factor) x 8,500 (tabular area, Table 503) = 14,875 sq. ft.
   - b) ACTUAL TOTAL FLOOR AREA (Proposed): 4,025 sq. ft.
   - c) ALLOWABLE FLOOR AREA (all stories): 14,875 (Allowable area per floor (Aa)) x 2 (number of stories (maximum 3)) = 29,750 sq. ft.

7. **FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS**
   TABLE 302.1.1 – requires a 2 hour separation between A-3 & B

1) Structural frame	0 Hr(s)
2) Bearing Walls Exterior	0 Hr(s)
Interior	0
3) Non-Bearing Walls/Partitions Exterior	0 Hr(s)
4) Non-Bearing Walls/Partitions Interior	0 Hr(s)
5) Floor Construction Including Beams	0 Hr(s)
6) Roof Construction Including Beams	0 Hr(s)

8. **OCCUPANCY LOAD**
   - Design Total for Building: 21
   - Total Exit Capacity for Building: 504

9. **ACCESSIBLE BUILDING**: X Designated; Non Designated

10. **SPRINKLER PROTECTION**: NO Entire Building; Limited Area

11. **CODES TO WHICH THIS PROJECT WAS DESIGNED**

State Building Code w/Supplement	2003 IBC
State Fire Code w/Supplement	2009 CFSC
State Health Code	MOST CURRENT
OSHA	MOST CURRENT
Section 504	N.A.
ADA	MOST CURRENT

12. **THRESHOLD BUILDING CONDITIONS**: Yes ; No X

SYMBOL LEGEND FOR CODE INFORMATION

- ACCESSIBLE AREA OR EXIT
- 840 / 20 = 42 — AREA IN S.F. / OCC. LOAD FACTOR — ROOM OCCUPANCY LOAD
- 42 / 168 — ACTUAL EGRESS OCC. OF DOOR / MAX. ALLOWABLE EGRESS OCC. OF DOOR — EXIT CAPACITY
- 1 HOUR FIRE RATED WALL CEILING/WALLS RESIST THE PASSAGE OF SMOKE
- CEILING/WALLS RESIST THE PASSAGE OF SMOKE
- MAXIMUM TRAVEL DISTANCE
- 120 — DIRECTION OF TRAVEL

Project Title:

New Town Facilities and Maintenance Barn
Project # GL-2015-14
Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

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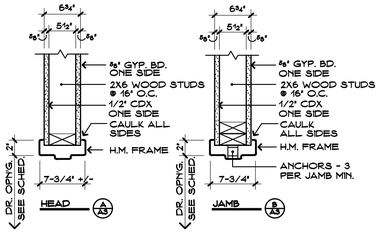
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

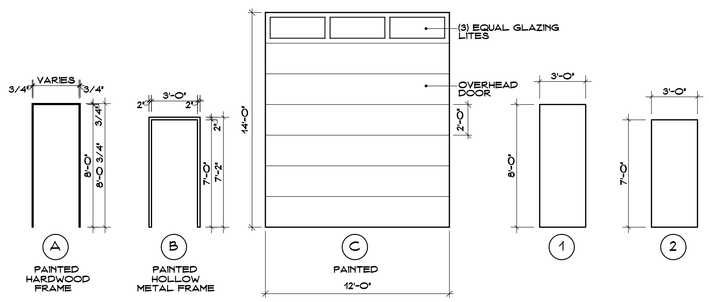
Revision:	Description:	Date:	Revised By:

Drawing Title: CODE PLAN AND CODE INFORMATION

Date: 10.3.14
Scale: AS NOTED
Drawn By: DW
Project Number: 13.235

Drawing Number: A2





DOOR & FRAME TYPES (1/A3)

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

DOOR SCHEDULE

DOOR NUMBER	SIZE 3'-0" X 8'-0"	SIZE 6'-0" X 8'-0"	SIZE 12'-0" X 14'-0"	SIZE 3'-0" X 7'-0"	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE - SEE FRAME ELEV.	FRAME MATERIAL	DETAIL/SHEET NO. HEAD DETAIL	JAMB DETAIL	SADDLE DETAIL	FIRE RATING GLAZING	RESISTS PASSAGE OF SMOKE	90 MINUTE	60 MINUTE	45 MINUTE	20 MINUTE	HARDWARE - SEE SPECIFICATIONS FIRE CODE: PANIC RELEASE LATCH	LATCHING/LOCKABLE	AUTOMATIC CLOSER	ELECTRO-MECH. CLOSER	DELAYED ACTION CLOSER	DISABLED REQUIREMENTS: PUSH/PULL	LEVER HANDLES/LOCK	KICK PLATES	TACTILE WARNING	ACCESSIBLE THRESHOLD	SIGNAGE	REMARKS
100	●				1	FB		A	WD														●	●		●	●		
101				●	2	HM		B	HM	A/A3	B/A5												●	●		●	●	UTILITY CLOSET	
102				●	2	HM		B	HM	A/A3	B/A5												●	●		●	●	TOILET ROOM	
103	●				1	FB		A	WD													●	●		●	●			
104		●			3	HM	INSUL.	C															●	●		●	●			

LEGEND
HM - HOLLOW METAL
FB - FIBERGLASS
WD - WOOD
TEMP - TEMPERED
INSUL - INSULATED

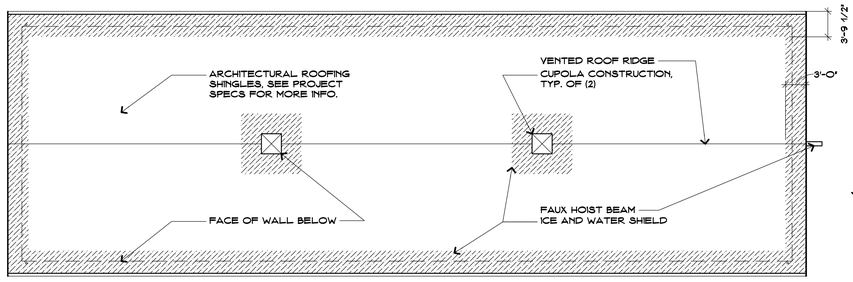
REMARKS
- ● - INDICATES NEW WORK
- ○ - INDICATES EXISTING TO REMAIN
- □ - INDICATES EXISTING TO BE REMOVED & REPLACED
- ■ - INDICATES EXISTING TO BE REMOVED
- EXISTING DOOR INFO.
- NEW DOOR INFO.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FLR. FIN.	FLOOR BASE	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	WALL FINISH NORTH	CEILING MAT'L.	NOTES
100	INVENTORY STORAGE	S.C.	PLY	PLY	PLY	PLY	PLY	E.S.	
101	UTILITY CLOSET	S.C.	PLY	PLY	PLY	PLY	PLY	G.W.B.	
102	STAIR	R.T.	PLY	PLY	PLY	PLY	PLY		
103	TOILET ROOM	S.C.	R.B.	G.W.B.	G.W.B.	G.W.B.	G.W.B.	G.W.B.	
104	SHOP WORKSPACE	S.C.	PLY	PLY	PLY	PLY	PLY	G.W.B.	
200	STORAGE		PLY	PLY	PLY	PLY	PLY	G.W.B.	

LEGEND
- E.S. - EXPOSED STRUCTURE
- G.W.B. - GYPSUM WALL BOARD, PAINTED.
- S.C. - SEALED CONCRETE
- PLY - PLYWOOD
- R.T. - RUBBER TREADS
- R.B. - RUBBER BASE

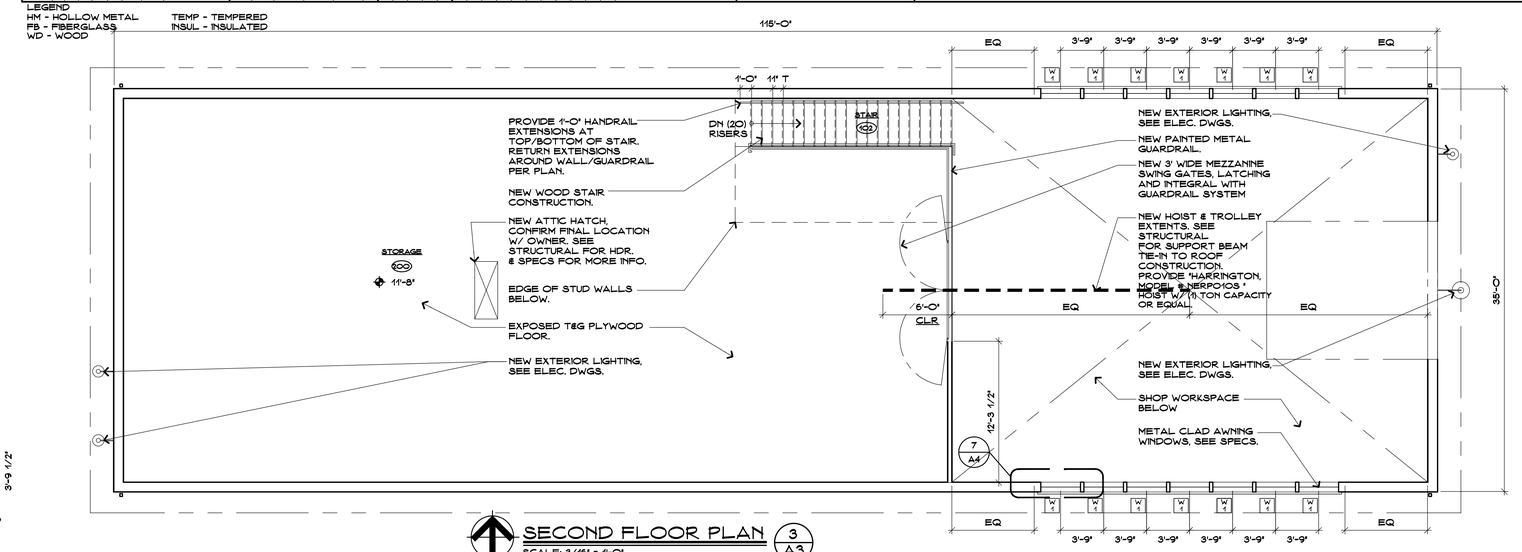
NOTES
1. ALL NEW HM DOORS & FRAMES TO BE PAINTED



ROOF PLAN (2/A3)

SCALE: NTS

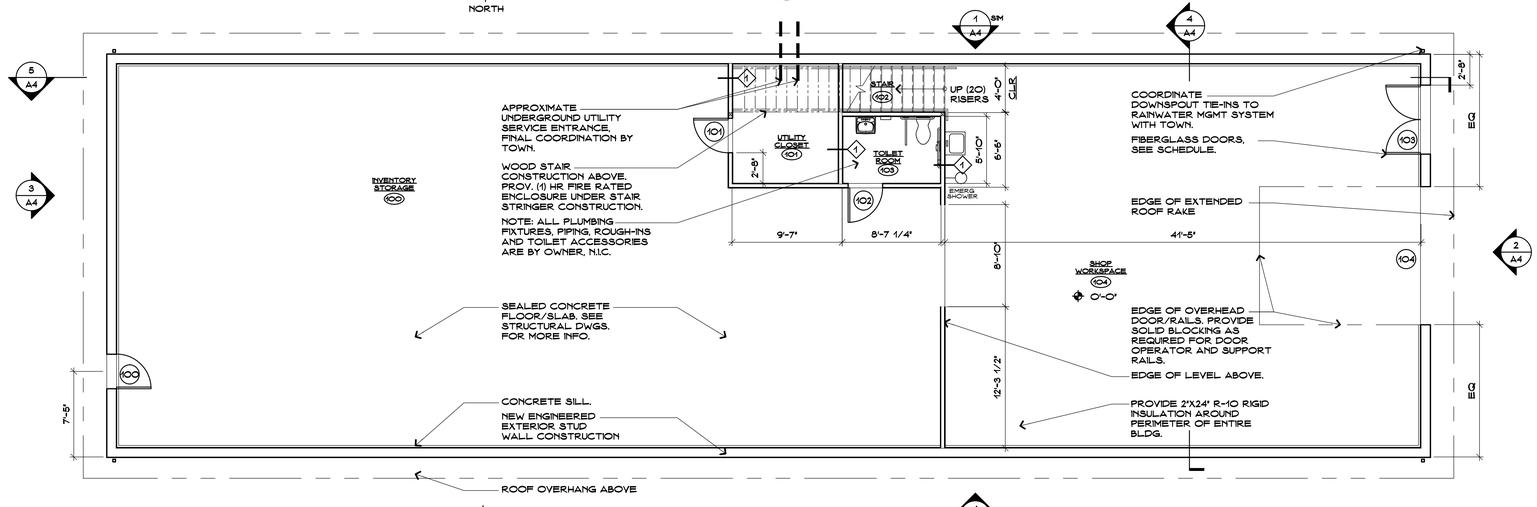
NORTH



SECOND FLOOR PLAN (3/A3)

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

NORTH

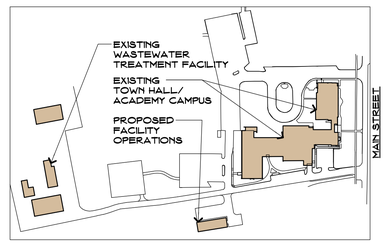


FIRST FLOOR PLAN (4/A3)

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

NORTH

NOTE: ALL DIMENSIONS TAKEN TO FACE OF STUD U.O.N.



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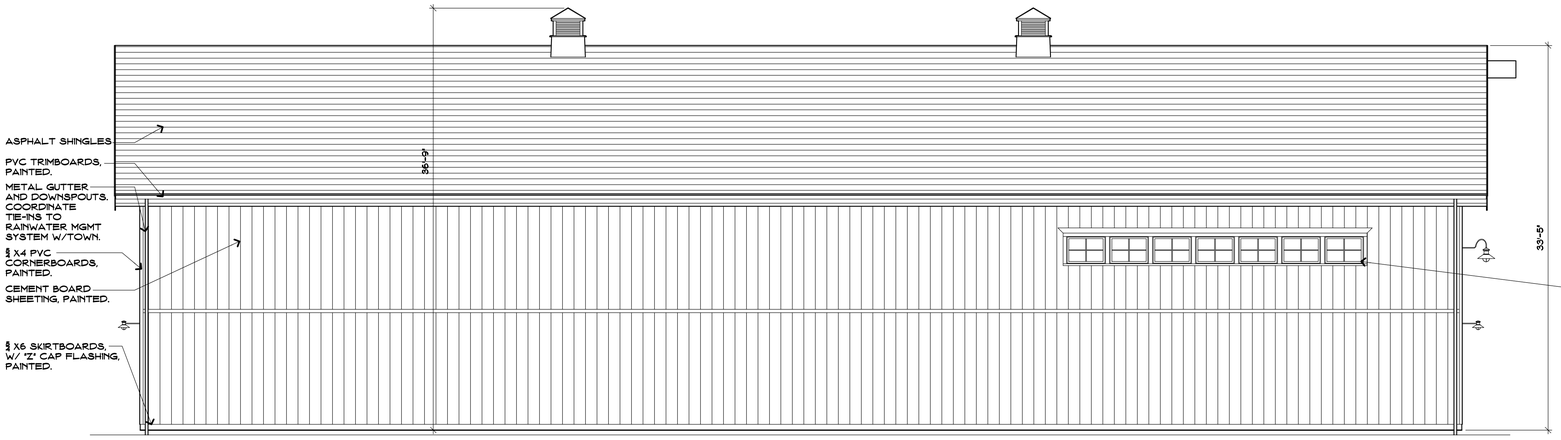
Revision:	Description:	Date:	Revised By:

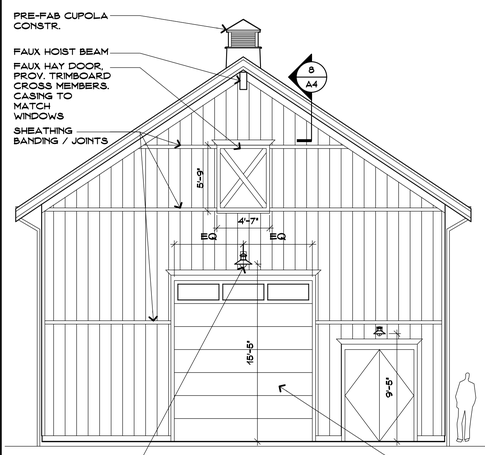
Drawing Title:
FLOOR PLANS, ROOF PLAN & SCHEDULES

Date: 10.3.14
Scale: AS NOTED
Drawn By: DW
Project Number: 13.235
Drawing Number: A3



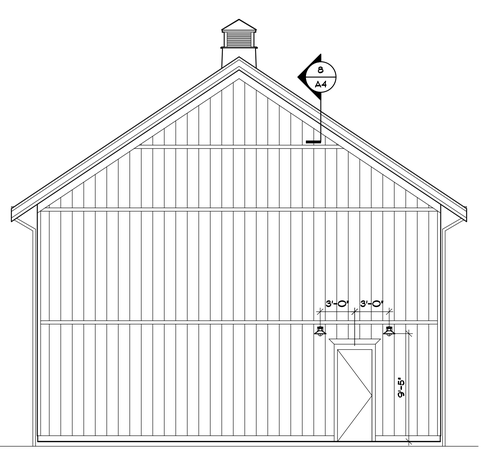
SOUTH ELEVATION (1/A4)

SCALE: 3/16" = 1'-0"
NORTH ELEVATION OPP. HAND



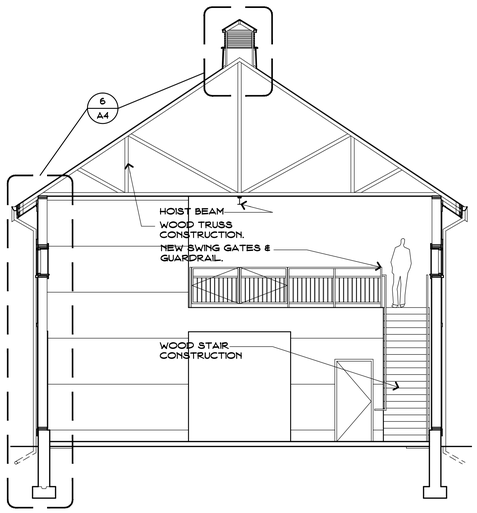
EAST ELEVATION (2/A4)

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



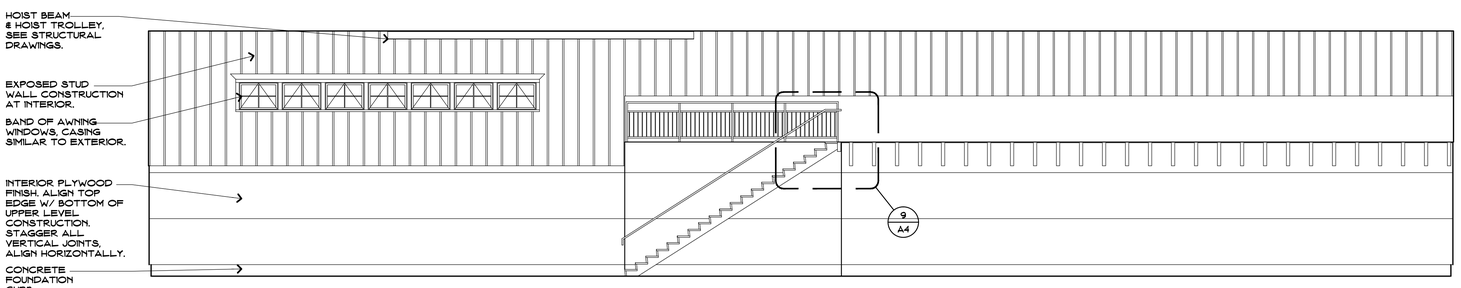
WEST ELEVATION (3/A4)

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



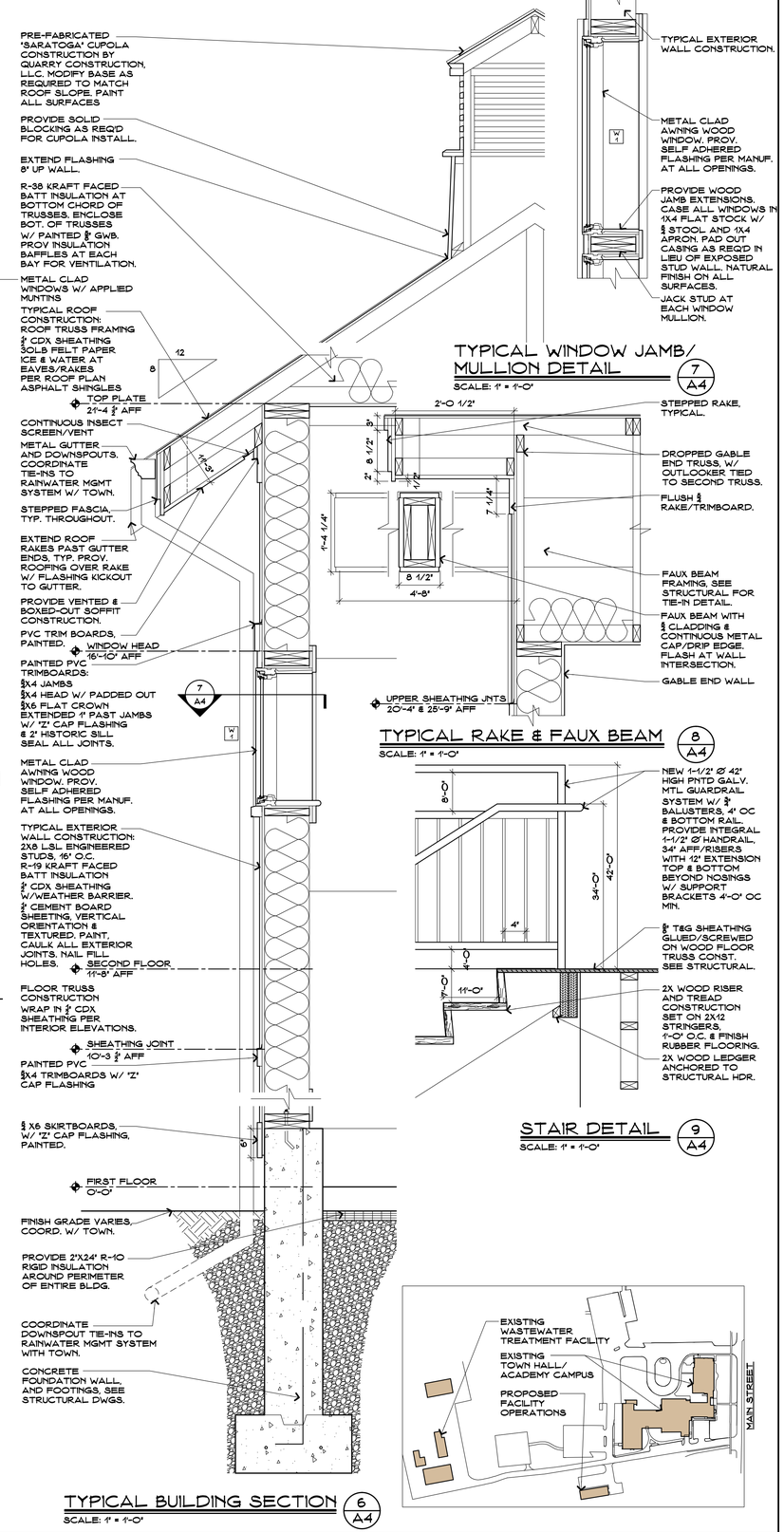
BUILDING SECTION (4/A4)

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



LONGITUDINAL SECTION ELEVATION (5/A4)

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



TYPICAL BUILDING SECTION (6/A4)

SCALE: 1" = 1'-0"

TYPICAL WINDOW JAMB/ MULLION DETAIL (7/A4)

SCALE: 1" = 1'-0"

TYPICAL RAKE & FAUX BEAM (8/A4)

SCALE: 1" = 1'-0"

STAIR DETAIL (9/A4)

SCALE: 1" = 1'-0"

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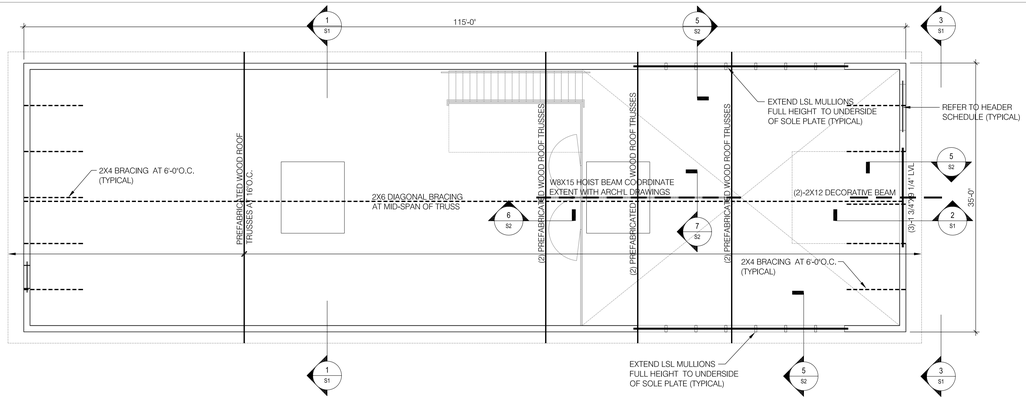
Revision:	Description:	Date:	Revised By:

Drawing Title:

EXTERIOR ELEVATIONS, SECTIONS & DETAILS

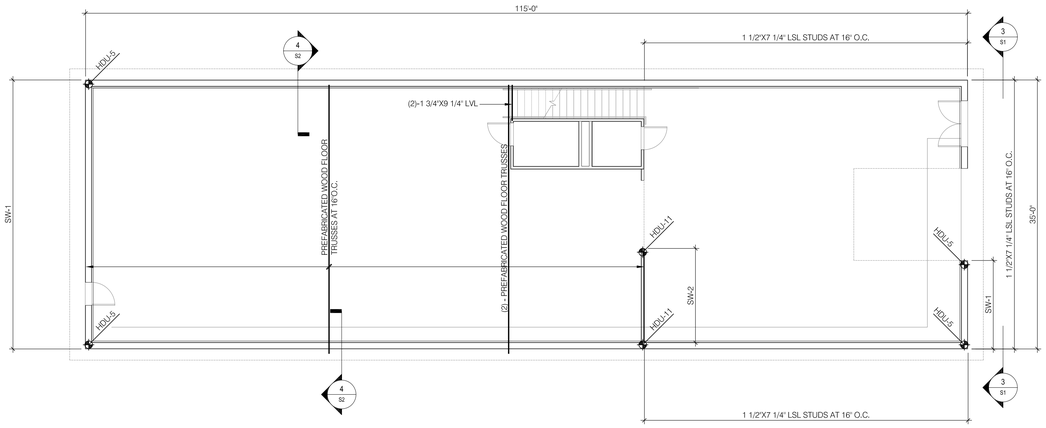
Date: 10.3.14
Scale: AS NOTED
Drawn By: DW
Project Number: 13.235
Drawing Number: A4



ROOF FRAMING PLAN

1/8" = 1'-0"

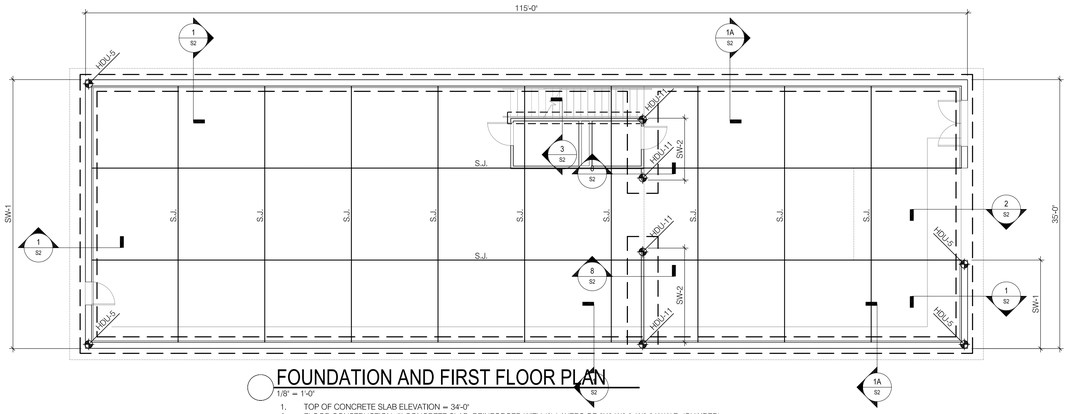
1. ROOF CONSTRUCTION: 5/8" PLYWOOD SHEATHING NAILED TO PRE FABRICATED WOOD ROOF TRUSSES WITH 10D RING SHANKED NAILS AT 4"O.C. AT EDGES AND 12"O.C. INTERMEDIATE SUPPORTS.



MEZZANINE FRAMING PLAN

1/8" = 1'-0"

1. TOP OF PLYWOOD ELEVATION = +11'-8
2. FLOOR CONSTRUCTION: 3/4" T. & G. PLYWOOD SHEATHING GLUED AND SCREWED TO PRE FABRICATED WOOD FLOOR TRUSSES AT 4"O.C. AT EDGES AND 12"O.C. AT INTERMEDIATE SUPPORTS.
3. "SW-1" INDICATES SHEAR WALL WITH 1/2" PLYWOOD ON ONE FACE NAILED WITH 10D RING SHANKED NAILS SPACED 6"O.C. AT EDGES AND 12"O.C. INTERMEDIATE. "SW-2" INDICATES SHEAR WALL WITH 1/2" PLYWOOD ON BOTH FACES NAILED WITH 10D RING SHANKED NAILS SPACED 6"O.C. AT EDGES AND 12"O.C. INTERMEDIATE.
4. "HDU-5" INDICATES SIMPSON HOLD DOWN ANCHOR. PROVIDE DOUBLE STUD POST AT EACH END "HDU-11" INDICATES SIMPSON HOLD DOWN ANCHOR. PROVIDE (5) PLY STUD POST AT EACH END



FOUNDATION AND FIRST FLOOR PLAN

1/8" = 1'-0"

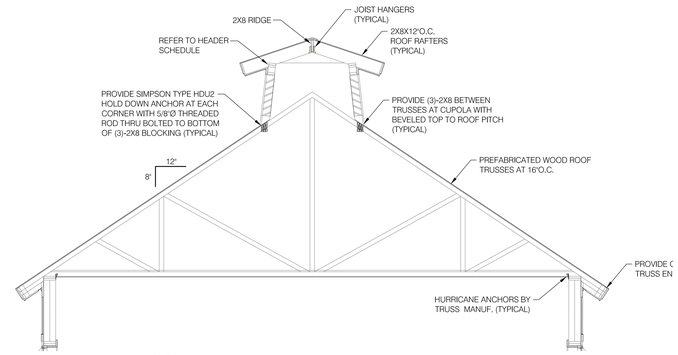
1. TOP OF CONCRETE SLAB ELEVATION = 34'-0"
2. FLOOR CONSTRUCTION: 5" CONCRETE SLAB, REINFORCED WITH (2) LAYERS OF 6X6-W2.9xW2.9 W.W.F. (CHAIRED) AND RADIANT TUBING OVER A 10 MIL. VAPOR BARRIER OVER 9" LAYER OF COMPACTED 3/8" CRUSHED STONE
3. "S.J." INDICATES SLAB SAW CUT JOINT. REFER TO TYPICAL DETAILS.

HEADER SCHEDULE

HEADER SIZE (EXTERIOR WALLS)		COLUMN	CLEAR OPENING
(2)-1 3/4X5 1/2" LVL (3)-2X8 (1)-TOP & (2)-BOTTOM	INSULATION (TYP.)	(2)-2X8 KING +(2)-2X8 JACK	0'-0" - 4'-0"
(2)-1 3/4X7 1/4" LVL (3)-2X8 (1)-TOP & (2)-BOTTOM	INSULATION (TYP.)	(3)-2X8 KING +(2)-2X8 JACK	4'-0" - 6'-6"

NOTES:

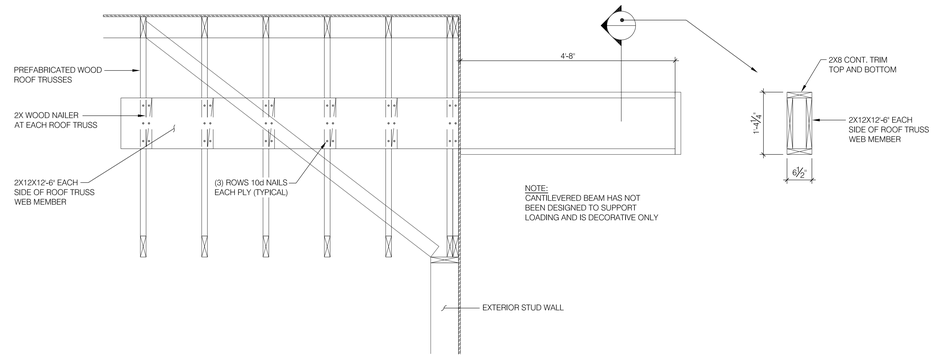
1. HEADER SCHEDULE APPLIES TO ALL INTERIOR AND EXTERIOR BEARING WALLS, UNLESS OTHERWISE NOTED ON PLAN.
2. PROVIDE HEADER PER SCHEDULE AT ALL OPENINGS, WHERE A HEADER IS NOT NOTED ON PLAN.
3. PROVIDE SIMPSON CS20 COIL STRAP FROM STUD TO HEADER, PROVIDE (1) PER JACK.



NOTE:
CONTRACTOR TO COORDINATE TRUSS BRACING WITH TRUSS MANUFACTURER SHOP DRAWINGS

SECTION

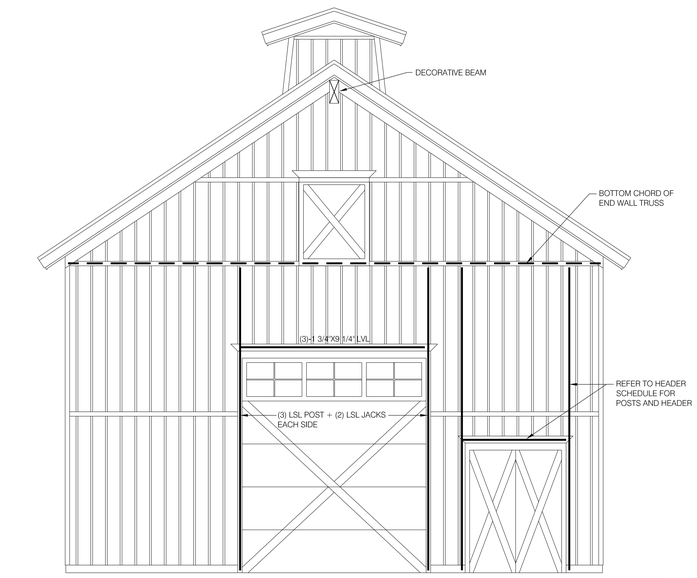
1/4" = 1'-0" — 1



NOTE:
CANTILEVERED BEAM HAS NOT BEEN DESIGNED TO SUPPORT LOADING AND IS DECORATIVE ONLY

SECTION

1/4" = 1'-0" — 2



SECTION

1/4" = 1'-0" — 3

Project Title:

New Town Facilities and Maintenance Barn
Project # GL-2015-14
Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

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Drawing Title:

FLOOR AND ROOF PLANS

Date: 10.3.14
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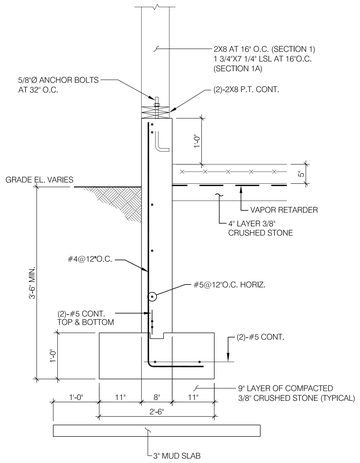
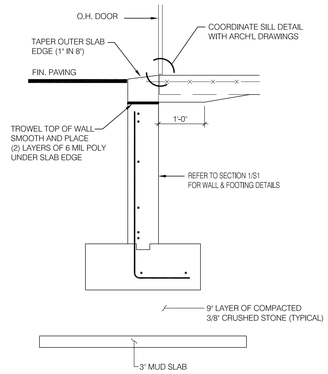
Drawn By: AC
Project Number: 13.235

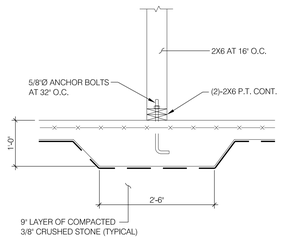
Drawing Number: S1



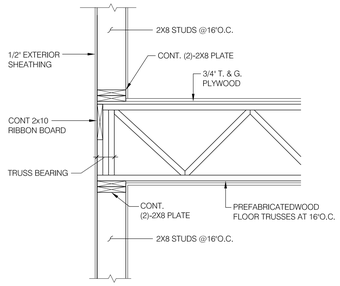
SECTION
SCALE: 3/4"=1'-0" — 1 1A



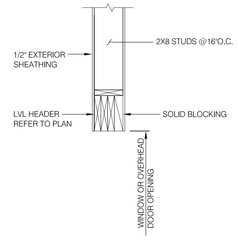
SECTION AT OVERHEAD DOOR
SCALE: 3/4"=1'-0" — 2



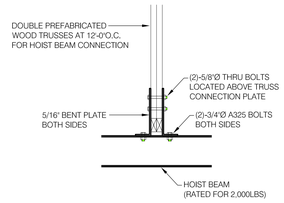
SECTION
SCALE: 3/4"=1'-0" — 3



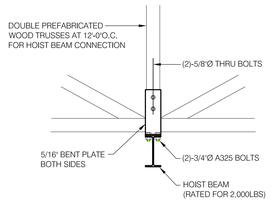
SECTION
SCALE: 3/4"=1'-0" — 4



SECTION
SCALE: 3/4"=1'-0" — 5

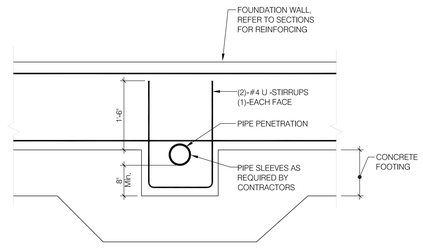


SECTION
SCALE: 3/4"=1'-0" — 6



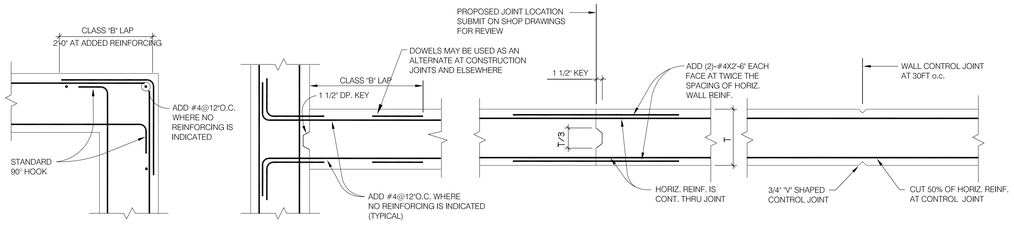
SECTION
SCALE: 3/4"=1'-0" — 7

SECTION
SCALE: 3/4"=1'-0" — 8

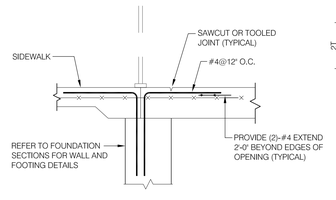


TYPICAL DETAIL OF PIPE PENETRATIONS THRU FOUNDATIONS WALLS

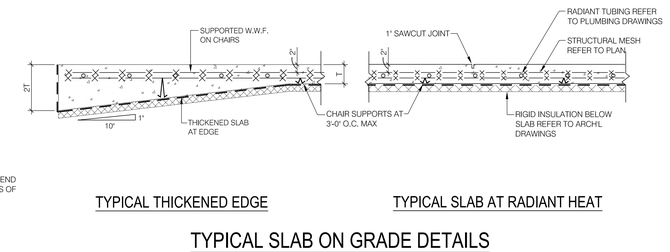
NOTE: DO NOT PLACE PENETRATIONS THROUGH COLUMNS PIERS OR FOOTINGS. REFER TO PLAN FOR LOCATIONS AND COORDINATE WITH SITE, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS



TYPICAL WALL REINFORCING DETAILS



TYPICAL FOUNDATION AT DOORS



TYPICAL THICKENED EDGE — TYPICAL SLAB AT RADIANT HEAT

TYPICAL SLAB ON GRADE DETAILS

NOTE:
CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE PROPOSED LOCATION OF CONTROL AND CONSTRUCTION JOINTS PRIOR TO PLACING CONCRETE FOR SLAB. REFER TO GEOTECHNICAL REPORT BY DR. CLARENCE WELTI, P.C., P.E., DATED OCTOBER 2, 2014 FOR SUBGRADE PREPERATION.

Project Title:
New Town Facilities and Maintenance Barn
Project # GL-2015-14
Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

Revision:	*Description:*	*Date:*	*Revised By:*

Drawing Title:
SECTIONS AND
TYPICAL DETAILS

Date: 10.3.14
Scale: AS NOTED
Drawn By: AC
Project Number: 13.235
Drawing Number: S2

GENERAL NOTES

GENERAL

GOVERNING CODE: STATE BUILDING CODE, 2005 CONNECTICUT SUPPLEMENT WITH THE 2013 AMENDMENTS (2003 INTERNATIONAL BUILDING CODE).

DESIGN LOADS: TOWN OF GLASTONBURY

MINIMUM LIVE LOADS: SLAB ON GRADE: 100 PSF
LIGHT STORAGE: 125 PSF

ROOF LOAD:

ROOF SNOW LOAD CRITERIA: PG = 30 PSF, CE = 0.9 AND IS = 1.0, CT= 1.0 WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2003 IBC).

MINIMUM ROOF LIVE LOAD = 30 PSF

ROOF DEAD LOAD = 20 PSF

WIND LOAD CRITERIA: SECTION 1609 (2003 IBC) WITH BASIC WIND SPEED = 100 MPH, BUILDING CATEGORY II, IW = 1.0, EXPOSURE CLASSIFICATION "B".

MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 15 PSF

WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-02.

TYPICAL WIND LOAD ON EXTERIOR WALLS = PER ASCE 7-02
MAXIMUM WIND LOAD AT CORNERS = PER ASCE 7-02
NET WIND UPLIFT ON STEEL JOIST ROOFS = PER ASCE 7-02
NET WIND UPLIFT AT OVERHANGS = PER ASCE 7-02

SEISMIC LOAD CRITERIA: AS PER SECTION 1616 (2003 IBC) WITH:
SEISMIC IMPORTANCE FACTOR, IE = 1.0
SEISMIC USE GROUP = II
SS = 0.238G, S1 = 0.063G
SOIL SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS, SDS = 0.254, SD1 = 0.101
SEISMIC DESIGN CATEGORY, TBD
BASIC SEISMIC-FORCE-RESISTING SYSTEM: BEARING WALL, LIGHT FRAME WALLS WITH SHEAR PANELS
DESIGN BASE SHEAR, V = 0.054W
RESPONSE MODIFICATION FACTOR, R = 6.5
ANALYSIS PROCEDURE USED: SIMPLIFIED ANALYSIS

ASSUMED BEARING PRESSURE : 2000 PSF

1. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

2. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTORS PROPERTY AFTER COMPLETION OF THE PROJECT.

3. THE STRUCTURE UTILIZES SHEAR WALLS TO PROVIDE LATERAL STABILITY. THEREFORE, TEMPORARY BRACING, GUYS, ETC. MUST BE MAINTAINED UNTIL ALL MASONRY SHEAR WALLS HAVE BEEN ERECTED AND ATTACHED TO STEEL FRAMING.

4. LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.

5. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.

6. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

7. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKERS INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

9. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.

10. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID FOR REFERENCE TO ALL NOTES ON ARCHITECTURAL DRAWINGS REFERRING TO ASEE STRUCTURAL DRAWINGS@. IF THE SIZE OF ELEMENTS AND DETAILING OF MEMBERS IS NOT INDICATED, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST THE MISSING INFORMATION IN PREPARATION OF THEIR BID. THESE REFERENCED ITEMS SHALL BE PART OF THE BASE BID.

11. IN CASES OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SUBMITTED SHOP DRAWINGS, THE CONTRACT DOCUMENTS SHALL GOVERN INSTALLATION OF MATERIALS.

FOUNDATIONS

1. BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH IS ON ONE SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL FLOOR SLAB OR ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING WALLS).

2. ALL FOOTINGS ARE TO REST ON 9" OF 3/8" COMPACTED CRUSHED STONE, AS DEFINED ON THE DRAWINGS OVER A 3" MUD SLAB REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS. FOOTING BOTTOM ELEVATIONS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOR LESS THAN 3'-6" BELOW FINISH GRADES.

3. IF FILL MATERIALS ARE ENCOUNTERED AT FOOTING BEARING ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF FOOTING ELEVATION AS REQUIRED.

4. ALL CONTROLLED COMPACTED BACKFILL UNDER FOOTINGS AND WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

5. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 3'-6" FROST PROTECTION.

6. ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.

7. FOOTING BOTTOMS SHALL STEP AT THE RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 1'-4".

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8. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF THE FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS.

9. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUBSURFACE PIPING OR CONDUIT, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF PIPING OR CONDUITS.

10. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

11. USE LEAN CONCRETE (F'C=1500) OR CONTROLLED COMPACTED FILL FOR OVER-EXCAVATION OF FOOTINGS.

12. PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.

13. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING FOUNDATIONS. SLABS ON GRADE, OR FOR BACKFILLING OF FOUNDATION WALLS , OR WITHIN 2 FEET OF PAVEMENT GRADES.

14. CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER ACI 318-95).

15. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SOIL BORINGS, SOILS REPORT AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER, DR. CLARENCE WELTI, P.E., P.C., DATED OCTOBER 2, 2014. IT IS THE CONTRACTOR=S RESPONSIBILITY TO REVIEW THE MATERIAL PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SOIL CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

16. FOUNDATION DESIGN SITE PREPARATION: THE FOUNDATION DESIGN AS INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN BASED ON THE FOLLOWING SITE PREPARATION. THE SITE HAS BEEN PREPARED BY THE EXCAVATION AND REMOVAL FROM THE SITE OF ALL EXISTING FILL AND CONTAMINATED SOILS. THE FOUNDATION DESIGN IS BASED ON THE CONTROLLED BACKFILLING OF THE SITE EXCAVATION WITH CONTROLLED FILL COMPACTED TO AT LEAST 95% OF THE MODIFIED OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

SLAB ON GRADE

1. ALL SLABS ON GRADE SHALL BEAR ON A VAPOR RETARDER OVER A MINIMUM OF 9 INCHES OF 3/8" CRUSHED STONE FILL. ALL JOINTS OF THE VAPOR RETARDER SHALL BE SEALED WITH TAPE.

2. IF FILL MATERIALS ARE ENCOUNTERED SLAB SUBGRADE ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF THE SLAB SUBGRADE AS REQUIRED. ALL CONTROLLED COMPACTED BACKFILL UNDER SLABS WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

3. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING SLABS ON GRADE.

4. CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS A MAXIMUM OF 15'-0" ON CENTER IN EACH DIRECTION, IN ADDITION TO THOSE LOCATIONS INDICATED ON PLAN.

5. CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEYED AND DOWELED AND LOCATED AT INTERVALS OF A MAXIMUM OF 75 FEET ON CENTER.

6. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSED AREAS IN CONCRETE SLABS AND FOR CONCRETE PADS. MAINTAIN FULL SLAB THICKNESS IN DEPRESSED AREAS, UNLESS OTHERWISE SHOWN.

7. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS FOR WHICH NO FOOTING IS SHOWN. SEE DETAILS FOR SLAB REINFORCING REQUIREMENTS AT ALL WALL LOCATIONS.

8. CONTRACTOR SHALL CONSOLIDATE ALL SLAB CONCRETE USING VIBRATIONAL METHODS IN CONFORMANCE WITH ACI 309, AGUIDE FOR CONSOLIDATION OF CONCRETE.

CONCRETE

MATERIALS:

CONCRETE SHALL DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION	STRENGTH (PSI)
FOUNDATIONS	3000
WALLS	3000
SLABS ON GRADE	3500 (NOT TO EXCEED 4500 PSI)

1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

2. REINFORCING STEEL SHALL BE 60,000 PSI YIELD.

3. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.

4. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-02.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

6. WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.

1.
7. WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.

8. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.

9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OF EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3'-6" FROST PROTECTION. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS. PIPING OR CONDUITS SHALL NOT PASS THROUGH COLUMNS OR PIERS.

10. CONTRACTOR SHALL ANTICIPATE DEFLECTION OF STEEL AT SUPPORTED ELEVATED SLABS, AND PROVIDE ADDITIONAL CONCRETE AS REQUIRED.

11. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS AB@ SPLICES IN ACCORDANCE WITH ACI 318.

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12. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.

13. PROVIDE DRILLED AND EPOXIED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ABUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDMENT DEPTH PER THE ANCHOR BOLT/EPOXY MANUFACTURER PLUS A CLASS AB@ LAP SPLICE FOR THE SIZE OF BAR.

14. PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

15. ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.

16. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE, SITE UTILITY AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS.

17. THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATING AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES.

18. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH.

19. ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.

20. PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:

FOOTINGS (AGAINST EARTH)	3"
WALLS, INTERIOR FACE	3/4"
WALLS, EXTERIOR FACE (#5 AND SMALLER)	1 1/2"
WALLS, EXTERIOR FACE (#6 AND LARGER)	2"
SLABS (INTERIOR)	3/4"
SLABS (EXTERIOR)	1 1/2"
SLABS ON GRADE (W.W.F.)	1/3 X THK. FROM TOP SURFACE

21. PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE INDICATED:

1-#5 AT EACH FACE ON EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENING.

1-#5 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER.

WOOD FRAMING

1. LUMBER FOR WOOD JOISTS, RAFTERS AND BEAMS SHALL BE DOUG-FIR, NUMBER 2 GRADE, WITH 19% MAXIMUM MOISTURE CONTENT AND MINIMUM SAFE STRENGTH CAPACITY OF:

FB = 875 PSI FOR BENDING
FC (PERP.) = 625 PSI FOR COMPRESSION PERP. TO GRAIN
FC (PAR.) = 1300 PSI FOR COMPRESSION PARALLEL TO GRAIN
FV = 95 PSI FOR HORIZONTAL SHEAR
E = 1,600,000 PSI MODULUS OF ELASTICITY

2. LUMBER FOR WOOD STUDS SHALL BE DOUG-FIR, NUMBER 2 GRADE, WITH 19% MAXIMUM MOISTURE CONTENT AND MINIMUM SAFE CAPACITY OF:

FB = 875 PSI FOR BENDING
FC (PERP.) = 625 PSI FOR COMPRESSION PERP. TO GRAIN
FC (PAR.) = 1300 PSI FOR COMPRESSION PARALLEL TO GRAIN
FV = 95 PSI FOR HORIZONTAL SHEAR
E = 1,600,000 PSI MODULUS OF ELASTICITY

3. ALL LUMBER IN CONTACT WITH MASONRY, CONCRETE, OR WITHIN 8" OF GRADE SHALL BE PRESSURE TREATED LUMBER.

4. ROUGH PLYWOOD: CONFORM TO THE REQUIREMENTS OF U.S. PRODUCT STANDARD PS 1 AND THE AMERICAN PLYWOOD ASSOCIATION. PRODUCTS CONFORMING TO EQUIVALENT GRADING BY TECO OR PITTSBURGH TESTING LABORATORY IS ALSO APPROVED. DO NOT USE PARTICLE PANEL PRODUCTS OR OTHER FABRICATED WOOD PRODUCTS.

FLOOR SHEATHING SHALL BE 3/4" STURD-I-FLOOR TONGUE AND GROOVE PLYWOOD.

5. CORNER POSTS SHALL BE THE EQUIVALENT OF NOT LESS THAN THREE PIECES OF 2" X 6" STUDS AT 6" STUD WALLS AND 2" X 4" STUDS AT 4" STUD WALLS, BRACED BY APPROVED SHEATHING APPLIED VERTICALLY IN PANELS NOT LESS THAN 4'-0" X 8'-0".

6. PROVIDE WOOD POSTS BELOW BEAMS, MULTIPLE WIDTH WOOD MEMBERS, AND GIRDER TRUSSES THAT SHALL MATCH THE WIDTH OF THE MEMBER TO BE SUPPORTED.

7. FLOOR JOIST BRIDGING:

PROVIDE 1" X 3" DIAGONAL BRIDGING (OR EQUIVALENT) AT 8'-0" MAXIMUM ON CENTER.

USE ONE LINE OF SOLID BLOCKING NEXT TO EXTERIOR WALLS AND AT CENTERLINE OF INTERIOR STUD WALLS.

8. CUTTING AND NOTCHING: IN BEAMS, JOISTS AND RAFTERS, CUTS SHALL NOT BE DEEPER THAN SHOWN ON DRAWINGS, AND IN NO CASE DEEPER THAN 1/6 THE DEPTH OF THE BEAM, JOIST OR RAFTER.

9. CONNECTIONS AND FASTENINGS: ALL MEMBERS SHALL BE FASTENED AT THEIR JUNCTIONS WITH APPROVED CONNECTORS, SPIKES, NAILS, STRAPS, OR OTHER DEVICES. ALL CONNECTORS AND FASTENERS FOR USE WITH PRESSURE TREATED WOOD SHALL BE STAINLESS STEEL. ALL BOLTS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

10. NAILING SHALL BE IN ACCORDANCE WITH THE "FASTENING SCHEDULE", IN CHAPTER 23 OF THE 2003 IBC CODE PER THE STATE OF CONNECTICUT BUILDING CODE.

11. DOUBLE UP JOISTS AND RAFTER UNDER ALL HVAC UNITS, UNDER ALL PARTITIONS, AND ELSEWHERE AS INDICATED ON THE DRAWINGS.

12. ALL OPENINGS SHALL BE FRAMED WITH DOUBLE POSTS, DOUBLE JOISTS OR DOUBLE RAFTERS AND HEADERS ON END (UPRIGHT), UNLESS OTHERWISE INDICATED.

13. CONNECT ALL WOOD SILL PLATES TO CONCRETE OR MASONRY WITH A MINIMUM OF (1)-5/8" DIAMETER ANCHOR BOLT WITH WASHERS AT 4'-0" ON CENTER MAXIMUM AND A MINIMUM OF 8" EMBEDMENT INTO CONCRETE OR MASONRY, AND BOLTS A MAXIMUM OF 6" FROM EACH END OF INDIVIDUAL WOOD PLATES AND ADJACENT TO PLATE LAPS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

14. CONNECT RAFTERS, JOISTS AND HEADERS FRAMING INTO THE SIDES OF OTHER WOOD MEMBERS WITH FORMED "SADDLE" TYPE JOIST HANGERS, MADE FROM 18 GA. GALVANIZED STEEL PER ASTM A93. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

15. ALL PREFABRICATED STEEL CONNECTORS INDICATED ON THE DRAWINGS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE OR APPROVED EQUAL. ALL SUBSTITUTIONS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT ON THE PROJECT. CONTRACTOR SHALL ANTICIPATE THE LEAD TIMES REQUIRED FOR OBTAINING THE CONNECTORS INDICATED ON THE DRAWINGS AND ALLOW SUFFICIENT TIME TO ORDER AND OBTAIN IN ORDER AS TO NOT DELAY THE WORK.

16. SIZE, SPACING AND DETAIL OF WOOD STUDS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

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17. MEMBERS INDICATED THUS: "LVL" SHALL BE LAMINATED VENEER LUMBER, OR EQUIVALENT APSL@ PARALLEL STRAND LUMBER "PARALLAM" SECTIONS WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES:

FB = 2600 PSI
FC (PERP.) = 750 PSI
FC (PAR.) = 2510 PSI
FV = 285 PSI
E = 1,900,000 PSI

18. STUD MEMBERS INDICATED THUS: "LSL" SHALL BE LAMINATED STRAND LUMBER "TIMBERSTRAND" SECTIONS WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES:

FT = 1075 PSI
FC (PAR.) = 1400 PSI
E = 1,300,000 PSI

19. PRE-ENGINEERED I-JOISTS SHALL BE I-LEVEL TJI SERIES COMPOSITE JOISTS AS MANUFACTURED BY WEYERHAEUSER OR EQUIVALENT. FLOOR JOISTS SHALL BE DESIGNED BY THE SUPPLIER TO SUPPORT THE LOADS ABOVE WITH DEFLECTIONS NOT TO EXCEED L/360 UNDER COMBINED DEAD LOAD + LIVE LOAD NOR L/480 UNDER LIVE LOAD ALONE. FLANGES FOR THE I-JOISTS SHALL BE LAMINATED VENEER LUMBER. FLANGES COMPRISED OF SAWN LUMBER SHALL NOT BE ACCEPTED.

WOOD TRUSSES

1. DESIGN FLOOR TRUSSES FOR THE FOLLOWING LOAD:

LIVE LOAD 125 PSF
DEAD LOAD 10 PSF

2. DESIGN ROOF TRUSSES FOR THE FOLLOWING LOAD:

LIVE LOAD 30 PSF
DEAD LOAD - TOP CHORD 15 PSF
DEAD LOAD - BOTTOM CHORD 5 PSF
PLUS WEIGHTS OF ALL MECHANICAL UNITS HUNG FROM TRUSSES, COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO DESIGNING TRUSSES.

3. FLOOR TRUSSES SHALL BE DESIGNED BY THE TRUSS FABRICATOR TO SUPPORT THE LOADS ABOVE WITH DEFLECTIONS NOT TO EXCEED L/360 UNDER COMBINED DEAD LOAD + LIVE LOAD NOR L/480 UNDER LIVE LOAD ALONE. TRUSS DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT.

4. ROOF TRUSSES SHALL BE DESIGNED BY THE TRUSS FABRICATOR TO SUPPORT THE LOADS ABOVE WITH DEFLECTIONS NOT TO EXCEED L/360 UNDER COMBINED DEAD LOAD + LIVE LOAD NOR L/360 UNDER LIVE LOAD ALONE. TRUSS DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT.

5. TRUSS LUMBER SHALL BE ANY SOFTWOOD SPECIES OF SPECIFIED GRADE, CONFORMING TO STRENGTH AND MODULUS REQUIREMENTS OF PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD."

MOISTURE CONTENT: SEASONED, WITH 19% MAXIMUM MOISTURE CONTENT AT TIME OF INSTALLATION.
GRADE FOR CHORD MEMBERS: NO. 2 MINIMUM
GRADE FOR WEB MEMBERS: NO. 3 MINIMUM

6. TRUSS JOINT CONNECTIONS SHALL BE MADE USING LIGHT GAGE METAL PLATES WITH EXTENDED TEETH PRESSED INTO WOOD OVER BOTH SIDES OF THE JOINT TO TRANSFER LOAD.

7. TRUSS BRACING: VERTICAL TRUSS BRACING SHALL CONSIST OF 1"X4" MEMBER SLOPING AT ABOUT 45 DEGREES, EXTENDING FROM THE TOP CHORD TO BOTTOM CHORD ELEVATION AND NAILED TO EACH TRUSS WEB MEMBER THAT IT PASSES. ANCHOR ENDS OF CONTINUOUS 1"X4" DIAGONAL BRACE TO FRAMING PERPENDICULAR TO TRUSSES.

8. STRUTS SHALL BE INSTALLED BETWEEN BOTTOM CHORDS AT THE SAME TRUSS PANELS AS THE VERTICAL SWAY BRACING, AND SHALL EXTEND CONTINUOUSLY FROM END WALL TO END WALL.

9. FABRICATOR SHALL SUBMIT SHOP DRAWINGS INDICATING ALL ELEMENT CONNECTIONS, SPLICES AND DETAILS, WITH CRITERIA SHOWN FOR CONNECTION DESIGN. FABRICATOR SHALL CERTIFY THAT CONNECTORS ARE DESIGNED FOR TRUSS FORCES SHOWN ON THE SHOP DRAWINGS. CONNECTORS SHALL BE BY SIMPSON STRONG-TIE OR ACCEPTED EQUAL.

10. CUT ALL MEMBERS TO FIT AND BUTT TIGHT.

11. FLOOR TRUSS SPACING SHALL NOT EXCEED 1'-4" CENTER TO CENTER.

12. ROOF TRUSS SPACING SHALL NOT EXCEED 1'-4" CENTER TO CENTER.

13. FABRICATOR SHALL PROVIDE ALL STEEL CONNECTORS TO CONNECT TRUSSES TO THE SUPPORTING STRUCTURE ADEQUATE FOR ALL GRAVITY AND UPLIFT LOADS AS INDICATED ON THE SIGNED AND SEALED TRUSS SHOP DRAWINGS. FABRICATOR SHALL CERTIFY THAT CONNECTORS ARE DESIGNED FOR TRUSS FORCES SHOWN ON THE SHOP DRAWINGS. CONNECTORS SHALL BE BY SIMPSON STRONG-TIE OR ACCEPTED EQUAL.

Project Title:
New Town Facilities and Maintenance Barn
Project # GL-2015-14
Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

SILVER / PETRUCELLI + ASSOCIATES
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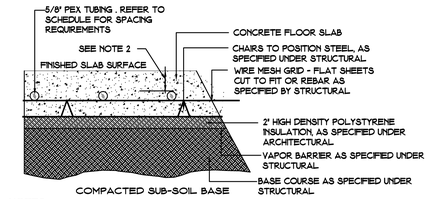
Revision:	*Description:*	*Date:*	*Revised By:*

Drawing Title:
GENERAL NOTES

Date: 10.3.14
Scale: AS NOTED
Drawn By: AC
Project Number: 13.235

Drawing Number: S3

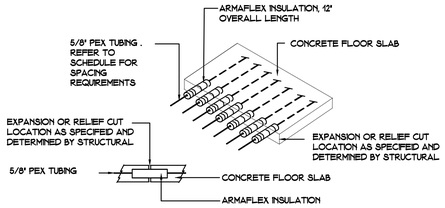


NOTES:

1. WIRE MESH SHOULD BE POSITIONED ON CHAIR CARRIERS DURING POUR.
2. TUBING SHOULD BE 1 3/8" MINIMUM FROM FINISHED SURFACE.
3. TIE-WRAP TUBING TO GRID EVERY 36" MINIMUM, NO WIRE TIES EXPANSION JOINTS EVERY 12' MINIMUM
4. NO WIRE TIES EXPANSION JOINTS AT EXPASNION JOINT LOCATIONS, AS SPECIFIED UNDER STRUCTURAL.

TYPICAL RADIANT CROSS SECTION- SLAB ON GRADE

NOT TO SCALE



RADIANT SLAB EXPANSION JOINT DETAIL

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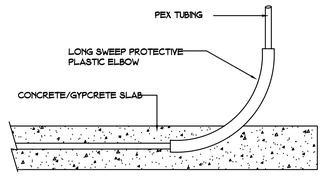
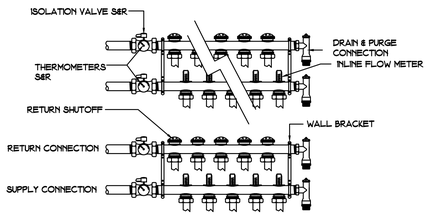


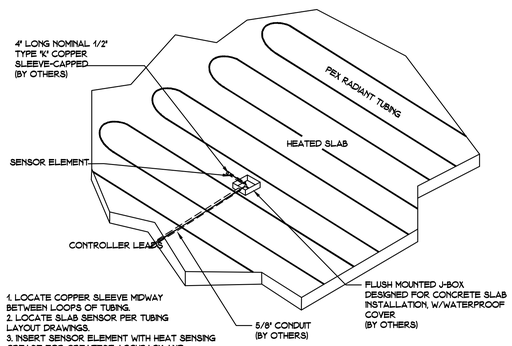
INDIVIDUAL LOOP PROTECTIVE ELBOW

NOT TO SCALE



TYPICAL RADIANT MANIFOLD DETAIL

NOT TO SCALE



SLAB SENSOR INSTALLATION

NOT TO SCALE

RADIANT HEAT SCHEDULE (BASED ON COMFORTPRO AQUA HEAT)

MANIFOLD	AREA SQ. FT.	BTUH/SQ. FT.	NO. LOOPS	TUBE SPACING	AVERAGE TUBE LENGTH	MANIFOLD FLOW	LOOP FLOW	P.D. (TDH)	SUPPLY TEMP (F°)	RETURN TEMP (F°)	RADIANT TYPE	NOTES
AREA-1	1665	27.3	6	12"	345'	5.09 GPM	.85 GPM	5.1ft	120	100	SLAB EMBEDDED	1 TO 5
AREA-2	1865	27.3	6	12"	345'	5.09 GPM	.85 GPM	5.1ft	120	100	SLAB EMBEDDED	1 TO 5

NOTES-

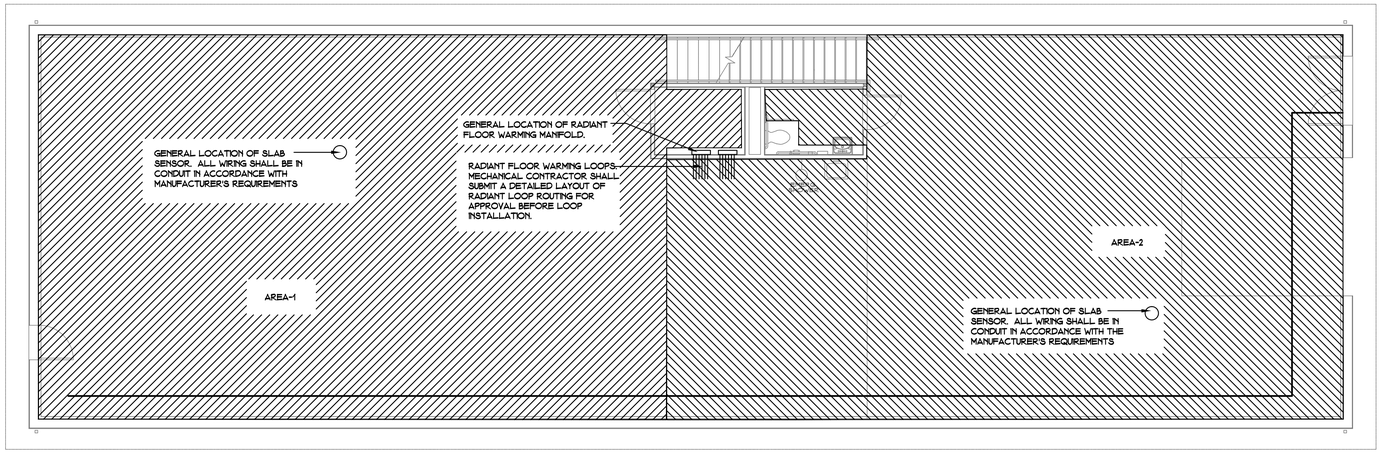
1. ALL RADIANT HEAT BASED ON 5/8" PEX-C TUBING
2. DESIGN INFO BASED ON BASE DESIGN MANUFACTURER. ALL ALTERNATES MUST SUBMIT DESIGN CALCULATIONS AND SPECIFICS FOR ENGINEER'S APPROVAL.
3. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. PROVIDE INSULATION BELOW SLAB IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
4. TO BE SUPPLIED WITH MANUFACTURER PROVIDED SLAB SENSOR WITH ENCLOSURE. COORDINATE EXACT LOCATION IN FIELD. RUN CONTROL WIRING IN A CONDUIT FOR EASY SERVICING.
5. 30% PROPYLENE GLYCOL SOLUTION

GENERAL

1. THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL RADIANT IN-SLAB PIPING AND ALL ASSOCIATED SPECIAL SYSTEMS. PIPING TERMINATE IN THE UTILITY CLOSET AND SHALL BE PRESSURE TESTED AND CAPPED, READYF FO FINAL PIPING CONNECTIONS BY OWNER.
2. THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
3. ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
4. ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
7. REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
8. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
9. CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRE STOPPING SEALANT WHERE REQUIRED.
10. ALL EQUIPMENT, PIPING, DUCT WORK SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
11. LOCATION AND SIZES OF ALL FLOOR PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

HVAC

1. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT PIPING LOOPS. THE CONTRACTOR SHALL SUBMIT A DETAILED LAYOUT OF RADIANT LOOP ROUTING FOR APPROVAL BEFORE INSTALATION.
2. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL PIPING PASSING THROUGH EXPANSION JOINTS SHALL BE PROVIDED WITH ARMAFLEX INSULATION

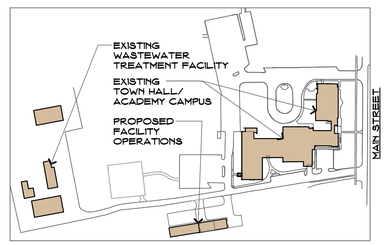


NORTH

FIRST FLOOR PLAN

1 / M1

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



Project Title:

New Town Facilities and Maintenance Barn
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Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

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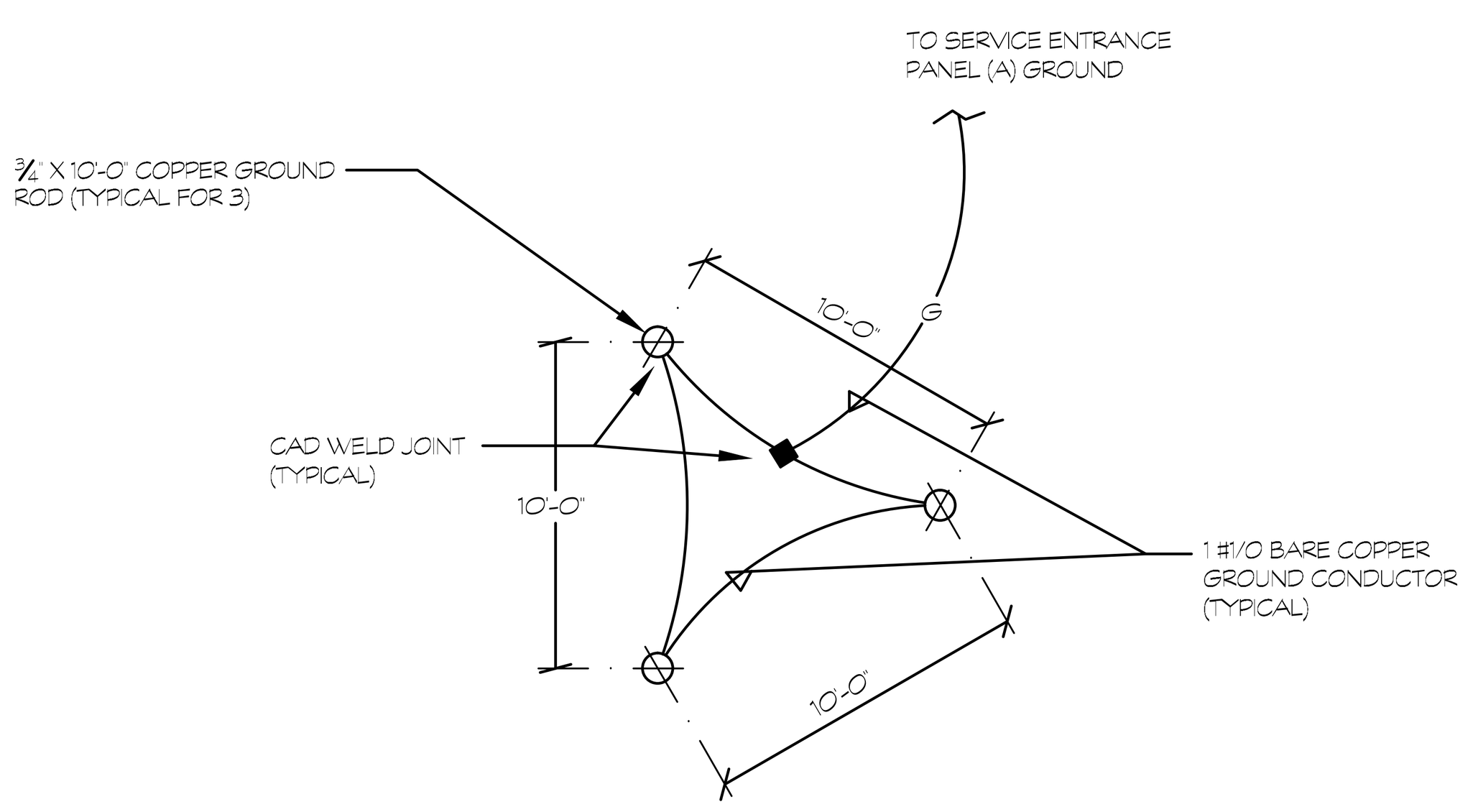
Revision:	Description:	Date:	Revised By:

Drawing Title:

MECHANICAL FLOOR PLAN, NOTES, DETAILS AND SCHEDULE

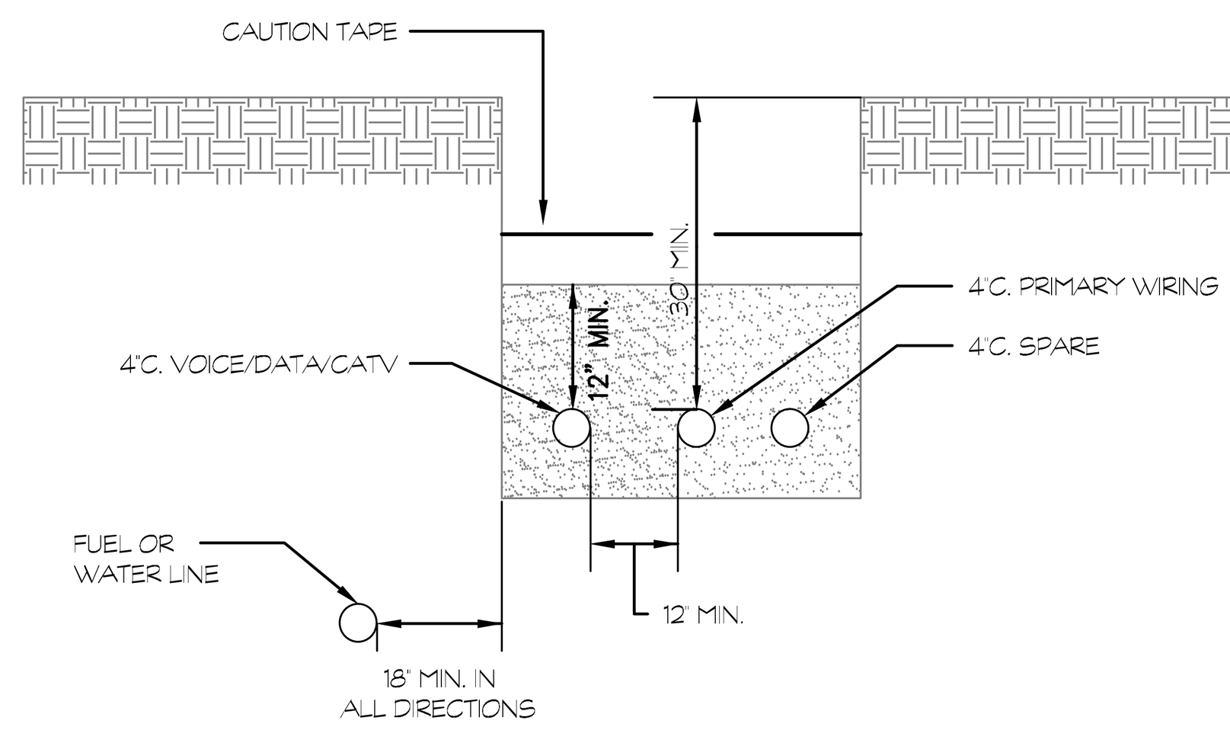
Date: 10.3.14
Scale: AS NOTED
Drawn By: AMG
Project Number: 13.235
Drawing Number: M1



NOTES:

1. E.C. SHALL PROVIDE A TESTED GROUNDING SYSTEM THAT MAINTAINS LESS THEN 10 OHMS.

1 GROUNDING TRIAD DETAIL
E1 N.T.S.



INSTALLATION IN TRENCH
- ALL CONDUIT SHALL BE INSTALLED AT A DEPTH OF AT LEAST 30" IN THE FOLLOWING ORDER:

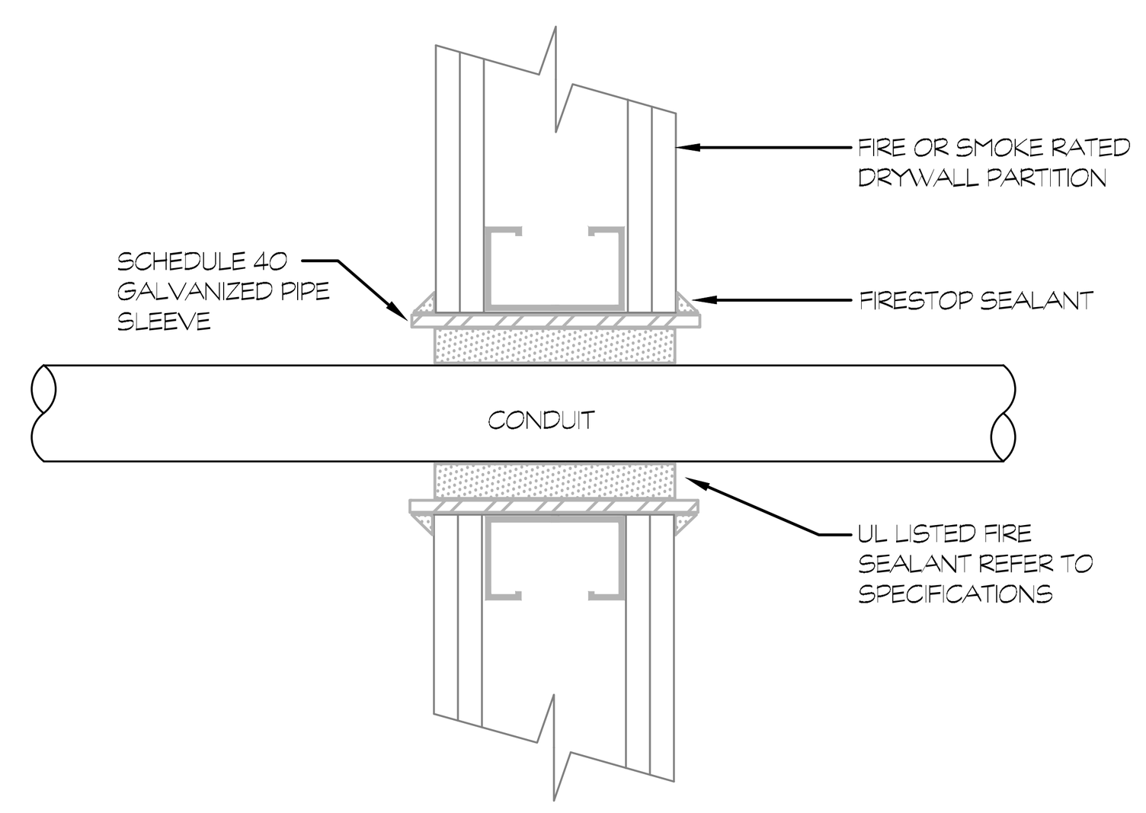
1. ENSURE THAT THE BOTTOM OF THE TRENCH IS WELL-TAMPED AND FREE OF ROCKS.
2. INSTALL THE CONDUIT,
3. INSTALL OTHER UTILITY CABLES OR CONDUITS IN THE TRENCH.
4. BACKFILL WITH 12 INCHES OF SAND.
5. INSTALL CABLE WARNING TAPE 12 INCHES OVER THE CONDUIT.
6. FILL IN THE REMAINDER OF THE TRENCH WITH NATIVE BACKFILL.

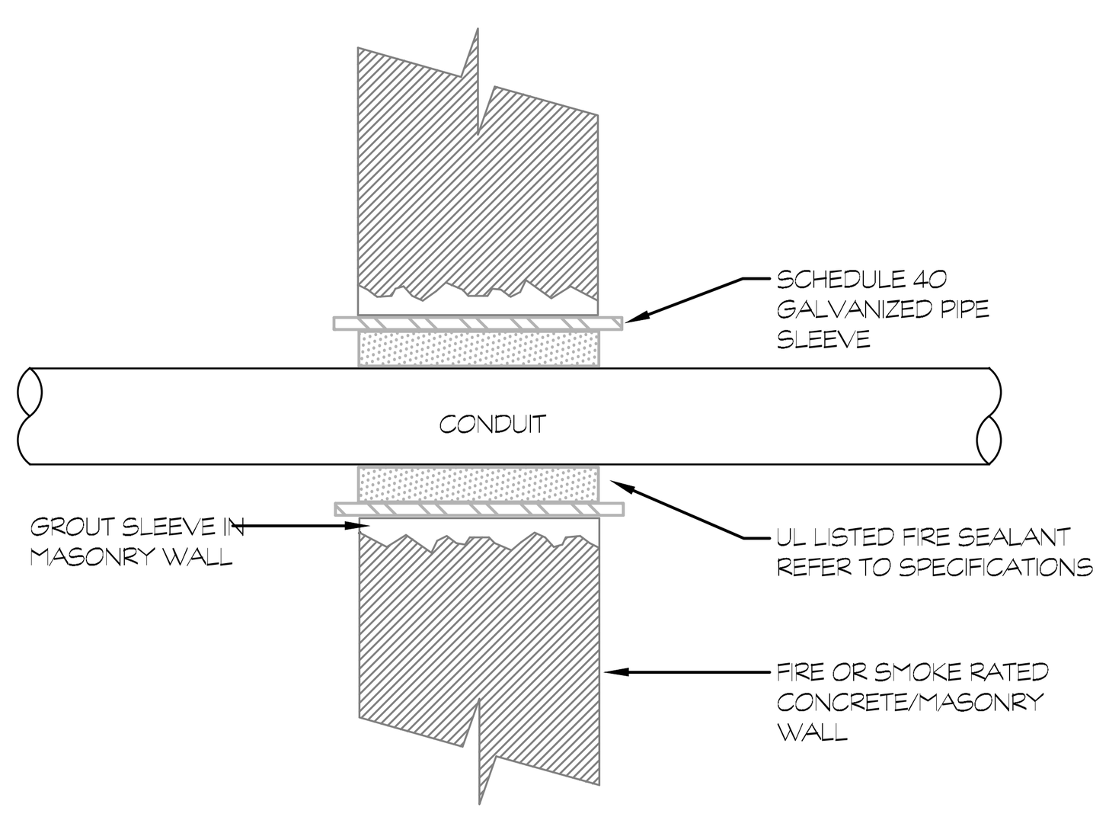
2 TRENCH DETAIL
E1 N.T.S.

GENERAL NOTES:

PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.





3 WALL PENETRATION W/ FIRE/SMOKE SEAL DETAIL
E1 N.T.S.

ELECTRICAL SYMBOLS

(NOT ALL SYMBOLS ARE USED)

- ELECTRICAL PANEL, 120/208 VOLT
- PANELBOARD SURFACE MOUNTED
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- J — WALL MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS
- J — CEILING MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS
- WALL MOUNTED FIXTURE; LETTER INDICATES FIXTURE TYPE
- TYPICAL PENDANT/CHAIN HUNG FLUORESCENT FIXTURE; LETTER INDICATES FIXTURE TYPE
- WALL MOUNTED EXIT SIGN, INSTALL AT 7'-6" AFF OR ON EXISTING LOCATION
- TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING
- WALL MOUNTED INVERTER
- DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED
- GFI — GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED
- WP — RECEPTACLE WITH OUTDOOR RATED COVER PLATE, PROVIDE FLUSH MOUNTED BOX
- SPECIAL OUTLET CONFIGURATION, SEE NEMA #
- E — CALL-FOR-AID CORRIDOR LIGHT/BUZZER, MOUNT AT 7'-6" AFF
- E — CALL-FOR-AID SWITCH. MOUNT AT 36" AFF WITH PULL CORD HANGING DOWN TO 6" AFF
- UTILITY COMPANY COMBINATION METER/SERVICE SWITCH (CL&P APPROVED)
- ECH J — CONNECTION TO ELECTRICAL CHAIN HOIST, FURNISHED AND INSTALLED BY OTHERS, WIRED BY E.C.
- OHD J — ELECTRICAL CONNECTION TO OVERHEAD DOOR, FURNISHED AND INSTALLED BY OTHERS, WIRED BY E.C.
- PUSH BUTTON DOOR CONTROLLER, FURNISHED WITH OVERHEAD DOOR, INSTALLED & WIRED BY E.C.
- TC — 7-DAY ASTRONOMICAL TIME CLOCK
- PC — BUILDING MOUNTED PHOTOCELL (9'-0" AFG)

ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
DIA	DIAMETER
EC	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING TO REMAIN
REM	EXISTING TO BE REMOVED
HT	HEAT TRACE
JB	JUNCTION BOX
M/B	MAIN BREAKER
MLO	MAIN LUG ONLY
MTD	MOUNTED
PNL	PANELBOARD
RELOC	RELOCATE/RELOCATED AT THE SAME HEIGHT (PER NEC REQUIREMENTS)
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

GENERAL NOTES

GENERAL

1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

WIRING & RACEWAY:

1. THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT. RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.
2. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
3. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE; COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT RIGHT FOR HORIZONTAL MOUNTING.
4. LOCATE AND INSTALL ELECTRICAL EQUIPMENT, JUNCTION AND PULL BOXES, PANELBOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.

RACEWAY INSTALLATION:

1. IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.
2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS.
3. PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRING.

WIRING INSTALLATION:

1. DO NOT USE WIRE SMALLER THAN NO. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:

   30 AMPERE CIRCUIT: NO. 10
   40 AMPERE CIRCUIT: NO. 8
   50 AMPERE CIRCUIT: NO. 6
   60 AMPERE CIRCUIT: NO. 6

A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FILL FOR 120 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOME RUN WIRE SIZE	CONDUIT SIZE (8 WIRES/CONDUIT)
0' TO 50'	#12	#12	3/4"
51' TO 100'	#12	#10	3/4"
101' TO 200'	#10	#8	1"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT.

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

B. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOME RUN WIRE SIZE	CONDUIT SIZE (8 WIRES/CONDUIT)
0' TO 100'	#12	#12	3/4"
100' TO 200'	#12	#10	3/4"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT.

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

2. DO NOT USE WIRE SMALLER THAN NO. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ARCHITECT.
3. WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310.
4. CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
5. UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.
6. THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS AT PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:

A. LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.

GROUNDING INSTALLATION:

1. EQUIPMENT GROUNDING

A. INSTALL AN INSULATED GROUND CONDUCTOR, RUN IN THE RACEWAY WITH THE PHASE CONDUCTORS, FOR EACH FEEDER SERVING: PANELBOARDS, LIGHTING DIMMER BOARDS, MOTOR CONTROL CENTERS, MOTORS, EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED.

B. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.

C. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.

RACEWAYS FOR TELECOMMUNICATION SYSTEMS:

1. PROVIDE EMPTY CONDUIT SYSTEMS FOR TELECOMMUNICATION WORK, COMPLETE WITH PULL BOXES, OUTLET BOXES, AND CONDUIT AS INDICATED ON THE DRAWINGS.
2. PROVIDE MINIMUM INSIDE BENDING RADIUS OF 10 TIMES CONDUIT INSIDE DIAMETER FOR TELECOMMUNICATIONS RACEWAYS.
3. WHEN COMPLETED THE CONDUIT SYSTEMS SHALL BE READY FOR THE INSTALLATION OF WIRING AND EQUIPMENT.

MECHANICAL EQUIPMENT WIRING:

1. UNLESS OTHERWISE INDICATED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED AND INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.
2. POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTIONS, IS THE WORK OF THIS DIVISION.
3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.
4. PROVIDE 120 VOLT POWER TO ALL TEMPERATURE CONTROL PANELS (TCPS) SUPPLIED AND INSTALLED BY DIVISION 23. USE EMERGENCY POWER SOURCES WHEN AVAILABLE. COORDINATE ALL POWER REQUIREMENTS AND PANEL LOCATIONS WITH DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR.
5. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS INSTRUCTIONS.

AS BUILT DRAWINGS

1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:

A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP

B. DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.

C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

D. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

E. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

F. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

G. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

LIGHTING FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	LAMP			ELECTRICAL			NOTES
			TYPE	COLOR TEMP	NO	BALLAST	VOLTAGE	WATTS	
A	WALL MTD 12" DIA. ARCHITECTURAL LANTERN W/ STRAIGHT STEM AND OIL RUBBED BRONZE FINISH	BASELITE "ROADHOUSE" MC12-21-B13/21-10W-BAX-UGR/21-SQ ¾"/21	10W LED	4100K	-	ELECTRONIC	120	13	
A1	WALL MTD 20" DIA. ARCHITECTURAL LANTERN W/ GOOSENECK STEM & OIL RUBBED BRONZE FINISH	BASELITE "ROADHOUSE" MC20-21-E3A/21-21W-BAX-UGR/21-SQ ¾"/21	21W LED	4100K	-	ELECTRONIC	120	25	
(exit sign symbol)	HANDICAP ACCESSIBLE EXIT SIGN - LED, SINGLE FACE, UNIVERSAL MOUNTED W/HANDICAP LOGO	ISOLITE STX-HE SA LR 1 W	LED	---	---	---	120	1.5	(2) (7)
(emergency light symbol)	EMERGENCY LIGHTING UNIT, SELF-CONTAINED, 90 MINUTE BATTERY PACK, DUAL HEADS	MCPHILBEN ET6L18WPSWA	5.4W TUNGSTEN	---	2	---	120	10.8	(7)
(inverter symbol)	125W WALL MTD CENTRAL INVERTER W/ 120V INPUT-120V OUTPUT & SELF-DIAGNOSTIC	ISOLITE IMI 12 LC V1					120		

LIGHT FIXTURE NOTES:

1. FURNISH W/ FACTORY EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH AND INDICATOR LIGHT (1100 - 1400 LUMEN OUTPUT).
2. PROVIDE W/ FEATURES AND ACCESSORIES NECESSARY FOR UNIVERSAL MOUNTING AND DIRECTIONAL ARROW KNOCKOUTS. ARROWS ON PLANS INDICATE DIRECTION OF CHEVRONS. SHADING INDICATES QUANTITY AND LOCATION OF FIXTURE FACE.
3. ALL EXTERIOR FIXTURES AND INTERIOR FIXTURES IN UNHEATED SPACES SHALL BE CAPABLE OF OPERATING IN COLD TEMP (0° F).
4. ELECTRONIC BALLAST SHALL BE PROGRAMMED START TYPE AND HAVE A MAXIMUM TOTAL HARMONIC DISTORTION OF TEN PERCENT (10%).
5. FURNISH ALL LIGHT FIXTURES WITH REQUIRED LAMPS. FLUORESCENT LAMPS SHALL PASS THE FEDERAL TCLP TEST FOR MERCURY TOXICITY AND SHALL BE CLASSIFIED AS NON-HAZARDOUS WASTE. COLOR OF ALL FLUORESCENT LAMPS SHALL BE 4100K.
6. FURNISH ALL ADDITIONAL MATERIALS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
7. FURNISH WITH NICKEL CADMIUM BATTERY FOR MINIMUM 90 MINUTE EMERGENCY LIGHTING OPERATION.
8. FIXTURE SHALL BE FURNISHED WITH TWO LED BOARDS, EACH WITH INDEPENDENT DRIVERS. SO THAT THE LOSS OF EITHER DRIVER OR LED BOARD WILL NOT LEAVE THE FIXTURE WITHOUT LIGHT.

ELECTRICAL DRAWING LIST

DRAWING NUMBER	DRAWING DESCRIPTION
E1	NOTES, SYMBOLS, DETAILS & SCHEDULES - ELECTRICAL
E2	SITE PLAN & FLOOR PLANS - ELECTRICAL
E3	ONE LINE DIAGRAM & PANEL SCHEDULE - ELECTRICAL

Project Title:
New Town Facilities and Maintenance Barn
Project # GL-2015-14
Glastonbury, CT.
2109 Main Street, Glastonbury, CT.

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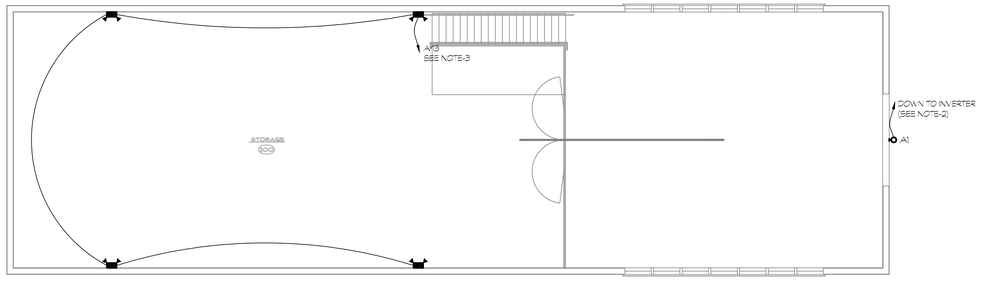
Revision:	Description:	Date:	Revised By:

Drawing Title:
NOTES, SYMBOLS, DETAILS & SCHEDULES - ELECTRICAL

Date: 10.3.14
Scale: AS NOTED
Drawn By: SEC
Project Number: 13.235
Drawing Number: E1

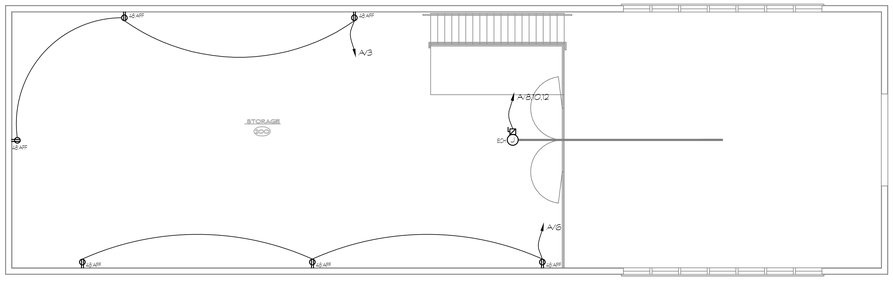


NORTH

SECOND FLOOR PLAN - LIGHTING

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

1 E2

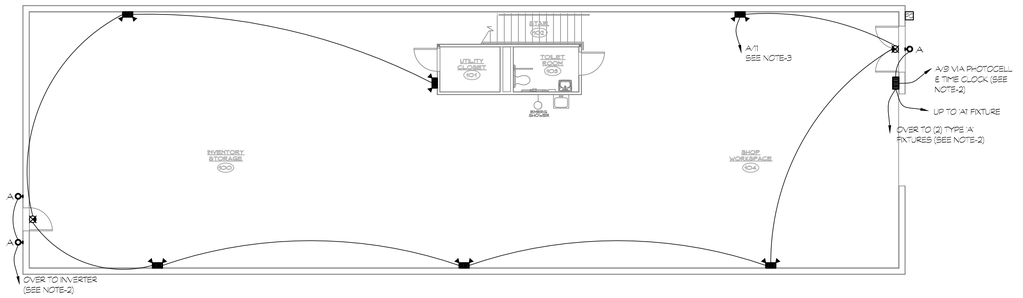


NORTH

SECOND FLOOR PLAN - POWER

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

3 E2

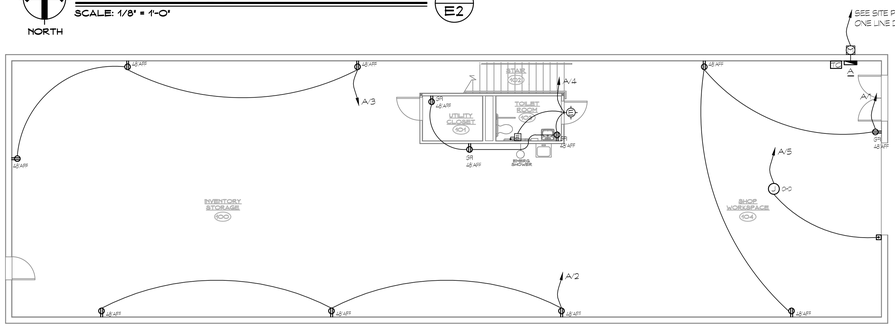


NORTH

FIRST FLOOR PLAN - LIGHTING

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

2 E2

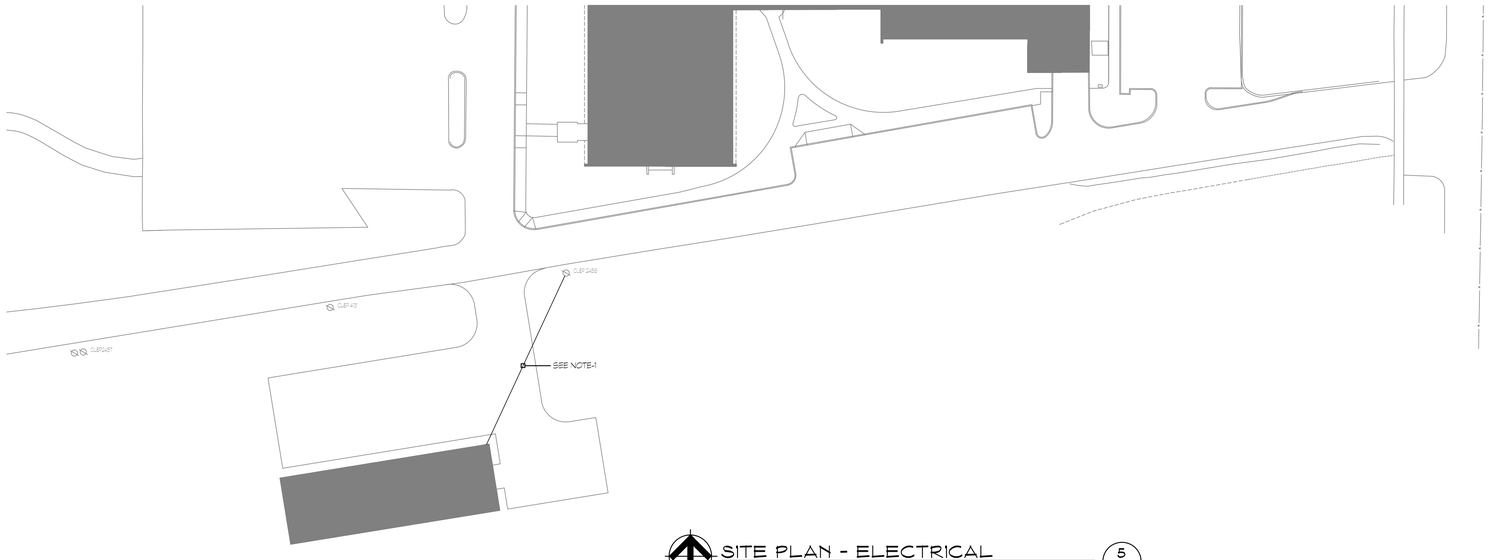


NORTH

FIRST FLOOR PLAN - POWER

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

4 E2



NORTH

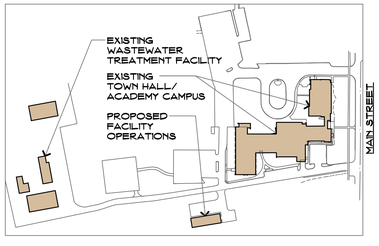
SITE PLAN - ELECTRICAL

SCALE: 1/32" = 1'-0"

5 E2

GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL (2) 4"C. FOR SERVICE ENTRANCE FEEDER (1-ACTIVE, 1-SPARE). TERMINATE CONDUITS 8' ABOVE GRADE ON POLE #2456 AND IN COMBINATION METER/SERVICE DISCONNECT SWITCH ON EXTERIOR OF BUILDING. INSTALL PULL STRING IN BOTH CONDUITS. CABLE WILL BE FURNISHED/INSTALLED BY CL&P AND TERMINATED AT NEW THREE PHASE POLE MOUNTED TRANSFORMERS AND METER ASSEMBLY. REFER TO ONE LINE DIAGRAM ON DRAWING E3 FOR MORE INFORMATION. ALSO INSTALL (1) 4"C. WITH PULL STRING FOR OWNER FURNISHED AND INSTALLED VOICE/DATA SYSTEM. TERMINATE CONDUIT INSIDE BUILDING ADJACENT TO PANEL 'A' (APPROXIMATELY 12'AFF) AND AT UTILITY POLE #2456.
2. TYPE 'A' & 'A1' FIXTURES SHALL BE CONTROLLED VIA TIME CLOCK AND BUILDING MOUNTED PHOTOCELL. THE TIME CLOCK & PHOTOCELL SHALL TURN ON THE FIXTURES AND ONLY THE TIME CLOCK WILL TURN OFF THE FIXTURES. THE INVERTER SHALL BE WIRED IN FRONT OF THE TIME CLOCK & PHOTOCELL TO MONITOR THE UNSWITCHED SIDE OF THE BRANCH CIRCUIT. UPON LOSS OF NORMAL POWER THE INVERTER WILL OPERATE THE FIXTURES AT 100% OUTPUT FOR A MINIMUM OF 90 MINUTES.
3. EMERGENCY LIGHTS SHALL BE WIRED TO LOCAL BRANCH CIRCUIT THAT IS FOR FUTURE LIGHTING TO BE INSTALLED BY OWNER IN THIS AREA. ALL EMERGENCY LIGHT FIXTURES SHALL BE WIRED IN FRONT OF ANY LOCAL SWITCHING (UNSWITCHED SIDE OF BRANCH CIRCUIT).



Project Title:

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Glastonbury, CT.
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Drawing Title:

SITE PLAN & FLOOR PLANS - ELECTRICAL

Date: 10.3.14
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Drawn By: SEC
Project Number: 13.235
Drawing Number: E2

CONDUCTOR AND CONDUIT SIZING TABLE

CIRCUIT BREAKER	CONDUCTOR (THWN/THHN)	CONDUIT SIZE
20 AMP	#12 + #12 GND	3/4"
30 AMP	#10 + #10 GND	3/4"
40,45,50 AMP	#8 + #10 GND	1"
60,70,80 AMP	#6 + #10 GND	1 1/4
90,100 AMP	#3 + #8 GND	1 1/2
125 AMP	#1 + #8 GND	1 1/2
150 AMP	#1/0 + #8 GND	1 1/2
200 AMP	#3/0 + #8 GND	2"
225 AMP	#4/0 + #4 GND	2 1/2
250 AMP	#250 + #4 GND	2 1/2
400 AMP	#600 + #3 GND	4"
600 AMP	(2 SETS) #350 + #1 GND	(2) 3"
800 AMP	(2 SETS) #600 + #1/0 GND	(2) 4"
1000 AMP	(3 SETS) #400 - #2/0 GND	(3) 3-1/2"

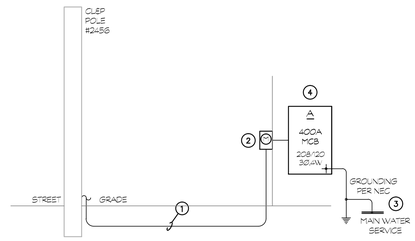
NOTE: 1. ALL VALUES BASED ON COPPER CONDUCTORS.

2. FEEDERS:
UPGRADE WIRE TO MAINTAIN MAXIMUM OF 2% VOLTAGE DROP.

BRANCH CIRCUITS:
UPGRADE WIRE TO MAINTAIN MAXIMUM OF 3% VOLTAGE DROP.

3. NUMBER OF WIRES SHALL BE DETERMINED WITH EQUIPMENT ELECTRICAL NAMEPLATE CHARACTERISTICS.

4. WHERE NEUTRALS ARE REQUIRED, IT SHALL MATCH FEEDER CONDUCTOR SIZE.



NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) 4"C. (1-ACTIVE, 1-SPARE) FROM CLEP APPROVED COMBINATION METER/SERVICE SWITCH TO UTILITY POLE #2456. TERMINATE CONDUIT 6' ABOVE GRADE AT POLE AND INTO COMBINATION METER/SERVICE SWITCH. INSTALL PULL STRING IN BOTH CONDUITS. CLEP WILL INSTALL FEEDER CABLE AND TERMINATE AT NEW POLE MOUNTED TRANSFORMERS AND METER ASSEMBLY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL A 400 AMP CLEP APPROVED COMBINATION METER/SERVICE SWITCH (320 AMP, 208/120V, 3Ø-4W) ON OUTSIDE WALL OF NEW BUILDING.
3. PROVIDE SERVICE GROUND TO WATER MAIN AND GROUND ROD PER NEW NEC ARTICLE 250 AND UTILITY REQUIREMENTS.
4. PROVIDE PANEL 400A MCB, 208/120V, 3Ø, 4 WIRE, 42 CIRCUIT, RATED FOR SERVICE ENTRANCE. WITH CIRCUIT BREAKERS AS INDICATED ON SCHEDULE.
5. REFER TO CONDUCTOR AND CONDUIT SIZING TABLE FOR FEEDER REQUIREMENTS. ALL WIRING BY ELECTRICAL CONTRACTOR.
6. SEAL ALL CONDUITS AS REQUIRED BY CODE.
7. PROVIDE PULL STRINGS AND CONDUIT END COVERS FOR ALL SPARE OR EMPTY CONDUITS.
8. PROVIDE BLACK PAINTED PLYWOOD BACKBOARD. ANCHOR AS REQUIRED FOR SEISMIC LOAD.

1 / E3 ELECTRICAL ONE LINE DIAGRAM
N.T.S.

PANEL "A"

RATINGS: 240V/400 A, 42,000 AIC
SERVICE: 208 Y/120V, 3 PHS/4-WIRE
LOCATION: SHOP WORKSPACE #104
MOUNTING: SURFACE

DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT. TYP	CKT. NO.	A B C	CKT. NO.	CKT. TYP	POLE	TRIP AMP	AMPS	NOTE	DESCRIPTION
RECEPTACLES		4.5	20	1	A1	1		2	A1	1	20	4.5		RECEPTACLES
RECEPTACLES		4.5	20	1	A1	3		4	A1	1	20	4.5		RECEPTACLES & CALL FOR AID
JUNCTION BOX (D-D)		9.8	20	1	A1	5		6	A1	1	20	4.5		RECEPTACLES
RECEPTACLES		4.5	20	1	A1	7		8						
EXTERIOR LIGHTS		1	20	1	A1	9		10	C	3	20	8.6		JUNCTION BOX (EC-1)
FUTURE INTERIOR LIGHTS			20	1	A1	11		12						
FUTURE INTERIOR LIGHTS			20	1	A1	13		14		1	20			SPARE
SPARE			20	1		15		16		1	20			SPARE
SPARE			20	1		17		18		1	20			SPARE
SPARE			20	1		19		20						
						21		22						
						23		24						
						25		26						
						27		28						
						29		30						
						31		32						
						33		34						
						35		36						
						37		38						
						39		40						
						41		42						

NOTES:
1. PANELBOARD SHALL BE CUTLER-HAMMER POW-R-LINE 1 OR EQUAL WITH MAIN BREAKER (SERVICE ENTRANCE RATED).
2. PROVIDE CB LOCK.
3. PROVIDE HACR BREAKER.
4. UPGRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.
5. TOTAL CONNECTED LOAD: PHASE A - 2877 VA, PHASE B - 2232 VA, PHASE C - 2798 VA } 7.7 KVA BASED ON 21.4 AMPS/PHASE
6. CIRCUIT TYPE A: 120V, 2 WIRE IN CONDUIT OR MC CABLE.
7. CIRCUIT TYPE A1: 120V, 3 WIRE IN CONDUIT OR MC CABLE.
8. CIRCUIT TYPE B: 208V, 1Ø, 4 WIRE IN CONDUIT OR MC CABLE.
9. CIRCUIT TYPE C: 208V, 3Ø, 5 WIRE IN CONDUIT OR MC CABLE.

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ONE LINE DIAGRAM & PANEL SCHEDULE - ELECTRICAL

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