PROJECT TITLE:

TEMPORARY TENT STRUCTURE AT:

COMMUNITY PARTNERS IN ACTION

995 SHERMAN AVENUE
HAMDEN, CONNECTICUT 06514

PROJECT LOCATION:

DRAWING LIST

COVER SHEET

GENERAL:
COVERSHEET
G100 CODE INFORMATION CODE PLAN & SYMBOL LEGEND

ARCHITECTURAL:
A100 PLANS, SECTION & SPECIFICATIONS

PLUMBING:
P001 PLUMBING NOTES & DETAILS
P100 PLUMBING FLOOR PLAN

ELECTRICAL
E100 ELECTRICAL FLOOR PLAN & GENERAL NOTES
E600 ELECTRICAL DETAILS & SPECIFICATIONS

ARCHITECT
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE, HAMDEN CT 06518
311 STATE STREET NEW LONDON, CT 06320
PHONE 203 230 9007 silverpetrucelli.com

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

M/E/P/FP ENGINEERS
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE, HAMDEN CT 06518
311 STATE STREET NEW LONDON, CT 06320
PHONE 203 230 9007 silverpetrucelli.com

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

REVIEW SUBMISSION: 05/19/2023

FULL SCALE PRINT: 30"x42"

ARCHITECTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.P.	ASBESTOS CEMENT PIPE
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AC.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.B.	CATCH BASIN
C.B.R.	CATCH BASIN TO BE REMOVED
C.I.	CAST IRON
C.I.P.	CAST IN PLACE CONCRETE
CLG.	CEILING
Ç	CENTER LINE
C. BD.	CHALK BOARD
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONF.	CONFERENCE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS, CONTINUE
C.J.	CONTROL/CONSTRUCTION JOINT
CONTR.	CONTRACTOR
C.C.	CURB CUT
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DR.	DOOR
DN.	DOWN
DWG.	DRAWING
E	ELECTRICAL
EA.	EACH
ECTR.	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
F.P.	FOLDING PARTITION
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
LVL.	LEVEL
M	MINUTE
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTL.	METAL
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.P.S.	NOMINAL PIPE SIZE
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
REQ'D.	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
SYS., SYST.	SYSTEM
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
t.f	TRIM TO FIT
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
WCJ	WALL CONTROL JOINT
WD.	WOOD
WF.	WIDE FLANGE
WNDW.	WINDOW
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
@	AT
◊	DIAMETER

GRAPHIC SYMBOLS

ROOM NAME / ROOM NUMBER XXX — ROOM IDENTIFICATION

ROOM NAME / ROOM NUMBER ### / MATERIAL – AC-1 or M-## — CEILING PLAN ROOM IDENTIFICATION

ROOM NAME / ROOM NUMBER / MATERIAL – CPT-1 or MBER / SQ FT / SQ FT — FINISH FLOOR PLAN ROOM IDENTIFICATION

CABINET TYPE CB1 / NOMINAL HEIGHT/WIDTH 3630 / SPECIAL DEPTH &/OR CLEARANCE — CASEWORK SYMBOL

XXX — EQUIPMENT SYMBOL

XXX — 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 — XX / XX — BUILDING SECTION DRAWING NUMBER

XX / XX — WALL SECTION DRAWING NUMBER

XX / XX — EXTERIOR ELEVATION DRAWING NUMBER

/ # XXX # / # — "#" INTERIOR ELEVATION "XX" DRAWING NUMBER

X — WALL TYPE

X — REVISION MARK

X — X — COLUMNS (EXISTING)

detail # XX / sheet # XX — DETAIL CALL OUT

ELEVATION LABEL — ELEVATION MARKER

DATUM POINT

— REVISION CLOUD

WALL INDICATIONS

TYPICAL WALL

WALL TO BE REMOVED

TYPICAL WINDOW

EXISTING CONSTRUCTION

WINDOW WALL

RECESSED ITEM

MATERIAL CONVENTIONS

PLAN SECTION — BRICK

PLAN SECTION — CONCRETE MASONRY UNIT (CMU)

CONCRETE (CAST-IN-PLACE)

CONCRETE (PRE-CAST)

RIGID BOARD INSULATION

INSULATION (BATT)

EARTH

GYPSUM BOARD

PLYWOOD

WOOD FRAMING (THRU MEMBER)

WD FRAMING (UNINTERRUPTED MEMBER)

WD TRIM/FINISH

ACOUSTICAL TILE OR PANEL

DOOR INDICATIONS

EXISTING DOOR

EX. DOOR TO BE REMOVED

NEW DOOR

DOUBLE LEAF DOOR

DOOR W/ 180 HOLD OPEN

VARYING LEAF DOOR

TWO-WAY DOOR

POCKET DOOR

BI- FOLDING DOOR

SLIDING DOOR

DOUBLE ACTING DOOR

RCP DRAWING SYMBOLS

2X2 LIGHT FIXTURE

EXHAUST DIFFUSER

SUPPLY DIFFUSER

RETURN DIFFUSER

RECESSED LIGHT FIXTURE

SPRINKLER HEAD

CODE INFORMATION

1. PROJECT DESCRIPTION:

TEMPORARY TENT STRUCTURE INSTALLATION- THE PROPOSED ASSEMBLY FOR THIS PROJECT DOES NOT IMPACT OR CHANGE THE CONSTRUCTION TYPE OR OCCUPANCY CLASS. (I-3 INSTITUTIONAL)

WORK SCOPE FOR THIS PROJECT INCLUDES A TEMPORARY TENT STRUCTURE INSTALLATION AND ELECTRICAL/ PLUMBING/ MECHANICAL SUPPORT

2. CLASSIFICATION OF WORK:

LEVEL 1 (TEMPORARY)

DATE OF ORIGINAL CONSTRUCTION -

DATE OF CURRENT CONSTRUCTION 2023

3. APPLICABLE BUILDING CODES:

- CONNECTICUT STATE BUILDING CODE (2015 ICC)	2018
- INTERNATIONAL EXISTING BUILDING CODE	2015
- INTERNATIONAL BUILDING CODE	2015
- INTERNATIONAL MECHANICAL CODE	2015
- INTERNATIONAL PLUMBING CODE	2015
- INTERNATIONAL ENERGY CONSERVATION CODE	2015
- NATIONAL ELECTRIC CODE (NFPA 70)	2017
- ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ)	2010
- UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)	

- ALL CODE SECTION REFERENCES ARE TO BE CSBC UNLESS OTHERWISE NOTED

4. CONSTRUCTION TYPE: (EXISTING, UNCHANGED) Type A3

5. USE GROUP CLASSIFICATION:

(Primary) Use I-3 INSTITUTIONAL

A-3 ASSEMBLY

8. SPRINKLER PROTECTION: Entire Building NO

9. REQUIRED MEANS OF EGRESS:

0-49 MAX OCC. (REQ'D-) 2 Exits Provided 2

10. COMMON PATH OF TRAVEL:

Non Auto Sprinklered BLDG 75'

11. EXIT TRAVEL DISTANCE:

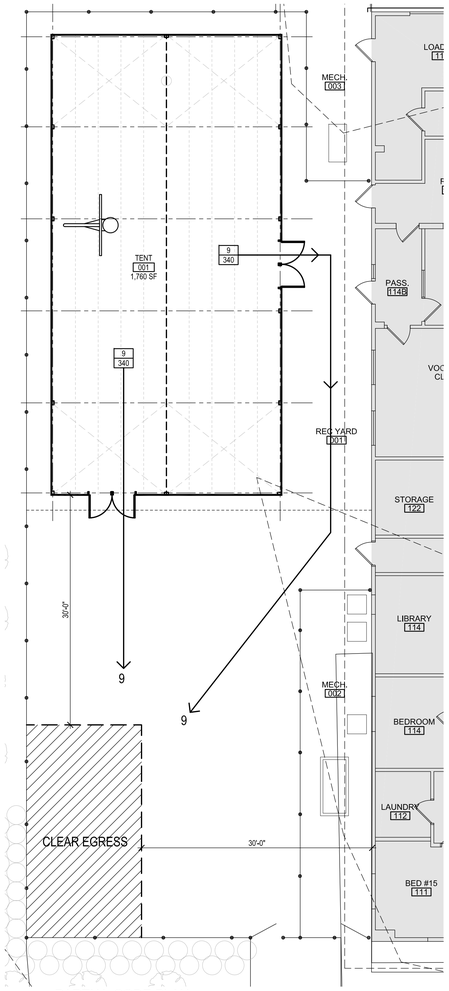
Non Auto Sprinklered BLDG 200'

12. DEAD-END CORRIDOR:

Auto Sprinklered BLDG N/A

13. FIRE SAFETY CODE DATA

Classification of occupancy	A3- ASSEMBLY	
Minimum construction required	n/a	
Actual Construction Provided	n/a	
Notification / Alarms	YES X	NO
Detection	YES X	NO
Extinguishment requirements	YES	NO X



1 PARTIAL CODE PLAN
1/8"=1'-0"

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007
silverpetrucelli.com

NOT FOR CONSTRUCTION

Revision: Description: Revised By: Date:

OUTDOOR REC FACILITY at:
Community Partners in Action
995 Sherman Avenue
Hamden, Connecticut 06514

Project Title:

Drawing Title:
GENERAL INFORMATION:
CODE PLAN, CODE INFORMATION
& SYMBOL LEGEND

Date: 05/19/2023
Scale: AS NOTED
Drawn By: JDN
Project Number: 22-170
Drawing Number:

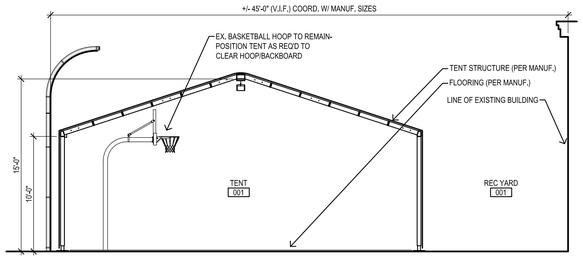
A100

GENERAL CONSTRUCTION NOTES

- COORD. W/ MECH & ELECTRICAL DWGS FOR ADDITIONAL INFORMATION
- TENT STRUCTURE TO MEET ALL STATE WIND/SNOW LOAD REQUIREMENTS (SEE SPECIFICATIONS) COORD. W/ MANUF.

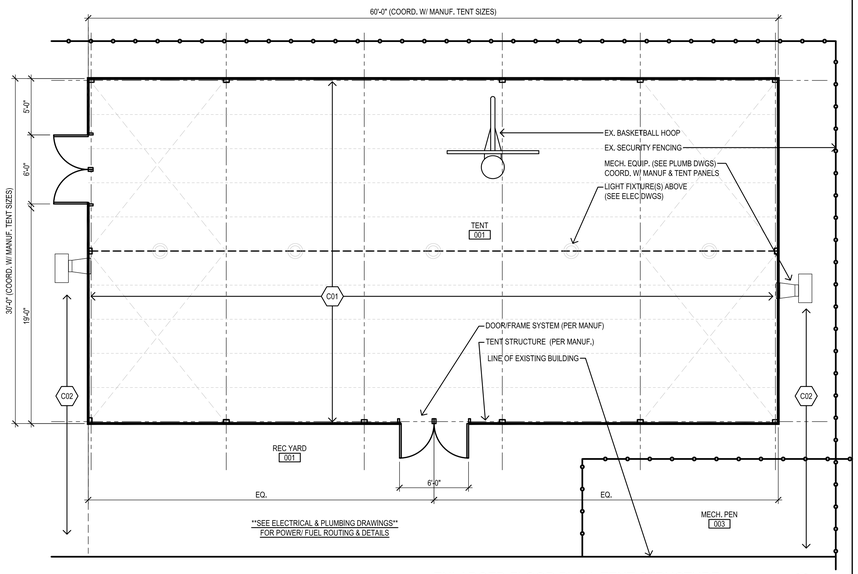
1. TENT STRUCTURE ASSEMBLY (PER MANUFACTURER): STRUCTURE, FRAMING, ROOFING, WALL PANELING, BRACING, DOORS/FRAMES, ANCHORING, FLOORING, ETC... & ALL ASSOCIATED COMPONENTS (BASIS OF DESIRED DESIGN: GRAND CHAMP XLN30- SEE SPECS)
2. PROVIDE TRENCHING FOR ELEC/ MECH EQUIPMENT (SEE ELEC & PLUMB) DWGS FOR ADDITIONAL INFORMATION)

- PATCH &/OR REPAIR EXISTING ASPHALT AFFECTED BY TRENCH
- CAULK &/OR FILL PENETRATIONS (BOTH SIDES)



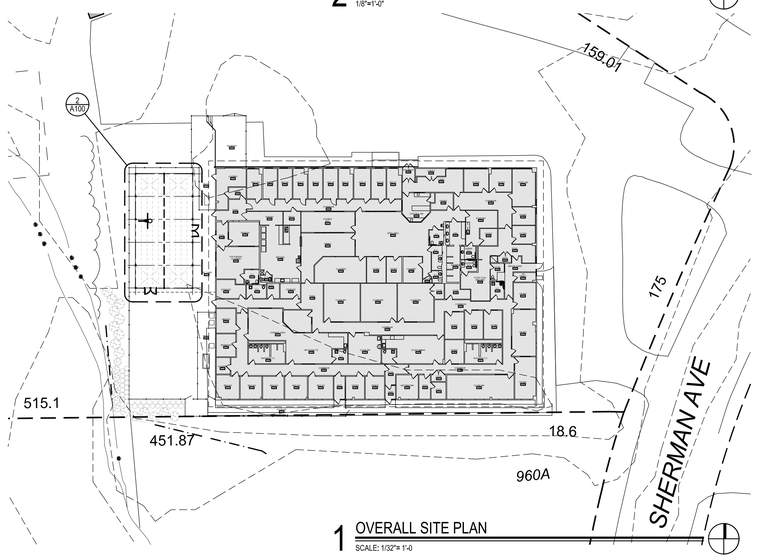
3 SECTION THRU: TENT STRUCTURE

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



2 ENLARGED FLOOR PLAN: TENT STRUCTURE

1/8"=1'-0"



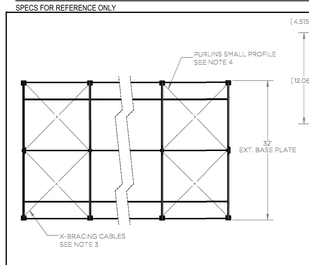
1 OVERALL SITE PLAN

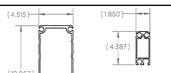
SCALE: 1/32"= 1'-0

SPECIFICATIONS:

GRAND CHAMP XLN-30' (OR EQUAL)

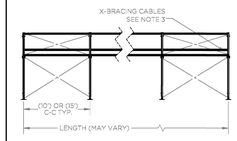
SPECS FOR REFERENCE ONLY






SCALE 1 : 250

1. Wind load & speed
   - See TABLE 1
2. Anchoring
   - Each leg base plate to be anchored with minimum four 1-1/8"X42" dual-headed stakes at each corner of the base plate for a total vertical strength of 4000 lb. See Page 3 for details. See TABLE 2 Page 6 for concrete blocks loads.
   - Each gable end leg base plate to be anchored with two 1"X24" dual-headed stakes. See Page 4 for details. See TABLE 2 Page 6 for concrete blocks loads.
3. X-Bracing cables
   - Install X-Bracing cables at each end section on walls and roofs. Do not exceed 6 sections without a bracing cable
   - CABLE Ø NOM. 1/4 (0143167I9GPW) may be installed in summer
4. Purlins
   - All purlins with SMALL profile. See next pages for purlin's assembly.
   - 5 purlins to be installed in summer
   - 9 purlins to be installed in winter (snow load)
5. Snow load
   - See TABLE 1
6. Canvas
   - 22 oz coating
   - NFPA 701/CAN-ULC S109 fire retardant
   - Blocks UV light (Blackout)
7. Maintenance as required
   - Ensure that the straps are tightened properly.
   - Remove snow and/or ice
   - Verify tension in cables
8. Structure materials
   - Aluminum 6005-T5, clear anodized finish
   - Steel ASTM A36 (44W) and A654 Gr.5 (CHT100)
   - Steel Tube HSS 50W
   - Bolts Grade 5
   - Flux-cored weld wire DW-50
   - Steel parts zinc plated (QI64-m92 4.5 mil.)
   - Wire Rope 1/2" 6X19 vinyl coated
9. Evacuation procedure
   - 0 - 70 km/h (43.5 mph) : No concern
   - 70 km/h (43.5 mph) : Prepare for evacuation and clear area around the tent.
   - 90 km/h (56 mph) : Evacuate and clear area around the tent.
   - 110 km/h (68mph) and more: all persons kept 200' away from the tent.



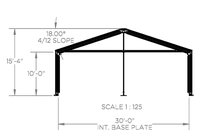
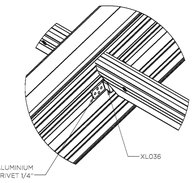


TABLE 1

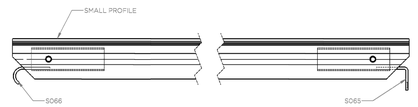
BAY	MAX. WIND SPEED	MAX. SNOW LOAD (lb/sq ft) PS: BALANCED/UNBALANCED
10' (120-1/2") TYP. C-C BAY	155 km/h (103 mph)	78
15' (180-1/2") TYP. C-C BAY	155 km/h (103 mph)	52


SUMMER PURLINS (SEE NOTE4 IN MAIN VIEW)



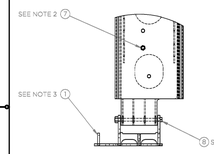
DÉTAIL H ECHELLE 1 : 5


WINTER PURLINS (SEE NOTE4 IN MAIN VIEW)

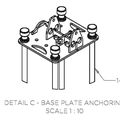


PURLIN ASSEMBLY SCALE 1 : 5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	XL001	BASE PLATE XL	2
2	XL048	BASE PLATE INSERT XL	2
3	XL026	LEG/RAFTER 10' XL	2
4	XL003	EAVE CONNECTOR XL	2
5	XL004	RAFTER 26' XL	2
6	XL006	CROWN (RIDGE CONNECTOR) XL	1
7	Q-028	HEX. HEAD BOLT 1/2-13 X 5.5	8
8	Q-007	HEX. HEAD BOLT 1/2-13 X 8.0	2

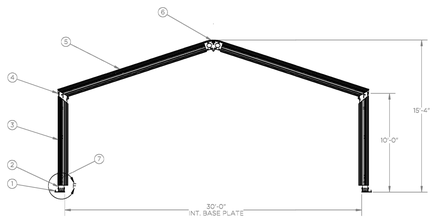


DETAIL F SCALE 1 : 8



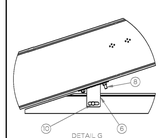
DETAIL C - BASE PLATE ANCHORING SCALE 1 : 10

NOTES:
1. THE ARCH IS SYMETRIC AND IS MEANT FOR STANDARD USE
2. ALL BOLTS THROUGH THE XL PROFILE HAVE A LENGTH OF 5.5"
3. BASE PLATE'S HOOK IS OUTSIDE THE TENT
4. BOLT DIRECTION, NUT AND LOCK WASHER OUTSIDE THE STRUCUTRE

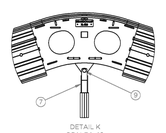


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S033	END WALL CORNER RAIL XL	2
2	S042	"U" SHAPED END WALL RAIL SUPPORT	1
3	S056	ADJUSTABLE ROUND HOOK INSERT	2
4	S046	END WALL POST 13'	1
5	S049	END WALL POST BASE PLATE	1
6	M042	END WALL CORNER RAIL SUPPORT	2
7	S040	END WALL POST INSERT (10")	1
8	Q-001	HEX. HEAD BOLT 1/2-13 X 1.5	2
9	Q-002	HEX. HEAD BOLT 1/2-13 X 2.5	3
10	Q-003	HEX. HEAD BOLT 1/2-13 X 3.5	2

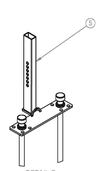
NOTES:
1. ADD THESE PARTS TO THE ARCH AT EACH END
2. THE END WALL IS SYMETRIC (UNLESS OTHERWISE SPECIFIED)
3. DIMENSIONS TO THE CENTER OF THE SUPPORT
4. ALL BOLTS THROUGH THE SMALL PROFILE HAVE A LENGTH OF 2.5"



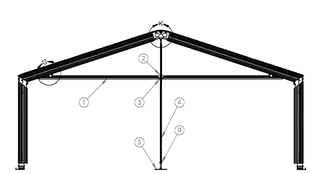
DETAIL G SCALE 1 : 10



DETAIL K SCALE 1 : 10



DETAIL B SCALE 1 : 10



SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007
silverpetrucelli.com

NOT FOR CONSTRUCTION

Revised By:
Date:
Description:
Revision:

OUTDOOR REC FACILITY at:
Community Partners in Action
995 Sherman Avenue
Hamden, Connecticut 06514

Project Title:

Drawing Title:
FLOOR PLANS, SECTIONS & SPECIFICATIONS

Date: 05/19/2023
Scale: AS NOTED
Drawn By: JDN
Project Number: 22-170
Drawing Number:

A100

PLUMBING GENERAL NOTES

GENERAL

THE INTENT OF THESE CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE PLUMBING SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.

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.

ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM..

ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

THIS CONTRACTOR SHALL COORDINATE ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION. COORDINATE REQUIREMENTS.

PROVIDE AND INSTALL ALL MAKE-UP WATER DISTRIBUTION TO HVAC EQUIPMENT INCLUDING BACKFLOW PREVENTER.

PROVIDE AND INSTALL INDIRECT CONDENSATE WASTE PIPING AND TRAP TO FLOOR DRAIN OR DRAIN RECEPTOR FROM ALL HVAC EQUIPMENT. PROVIDE ADDITIONAL FLOOR DRAINS WITH TRAP PRIMERS OR DRAIN RECEPTORS AS REQUIRED.

PLUMBING DEVICES, FAUCETS, VALVES AND FITTINGS REQUIRED FOR SPECIALTY SERVICE EQUIPMENT (IE. KITCHEN, LAB,ETC) SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. THIS CONTRACTOR SHALL PROVIDE AND INSTALL PIPING, CONNECTIONS, DEVICES, VALVES AND EQUIPMENT REQUIRED FOR PROPER OPERATION. COORDINATE REQUIREMENTS.

KITCHENS, LABS AND SIMILAR SPECIALTY AREAS: ALL EXPOSED PIPING, STOPS, COCKS, AND WASTES WHICH ARE VISIBLE SHALL BE CHROME PLATED.

REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.

ALTERATION WORK

UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.

NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.

EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.

ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.

RE-ROUTE OR REMOVE ALL EXISTING PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

COORDINATION

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 INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID WHEN AVAILABLE.

ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY 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.

ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

THE PLUMBING CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND SHALL COORDINATE WITH CIVIL ENGINEER LOCATIONS AND ELEVATIONS OF PLUMBING SERVICE LINES BEFORE PROCEEDING WITH CONSTRUCTION. THE UTILITY SERVICE LINES SHOWN ON THE DRAWINGS ARE FOR REFERENCE & BUILDING PERMIT ONLY. REFER TO CIVIL ENGINEERS DRAWINGS FOR UTILITY SERVICE LINES LAY-OUT & DETAILS.

CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.

THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR BEFORE INSTALLATION.
LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.

AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

-PLUMBING PIPING
-ELECTRICAL WORK

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED, REVISED, OR RESUBMITTED AS PER THE ENGINEERS COMMENTS, PRIOR TO CONSTRUCTION. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

-PIPING -PIPE SEALS -FITTINGS -HANGERS/SUPPORTS -VALVES

AS BUILT DRAWINGS

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 FULLY 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.

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:

INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.

MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

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

CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

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

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

HOUSEKEEPING PADS

PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR-MOUNTED EQUIPMENT. COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING LOCATIONS, AND ANCHOR BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONSTRUCTED OF 3,000 PSI CONCRETE. PADS SHALL BE 4 INCHES HIGH, AND 4 INCHES WIDER THAN THE EQUIPMENT IN BOTH DIRECTIONS.

COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD.

HANGERS AND SUPPORT

SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL PLUMBING EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT AND TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.

PROVIDE ADDITIONAL SUPPORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL "C" CLAMPS ARE NOT TO BE USED.

PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL NOT BE PERMITTED TO SUPPORT PIPING OR EQUIPMENT.

PIPE SEALS

SEAL ALL PIPING PASSING THROUGH ALL FIRE AND/OR SMOKE RATED PARTITIONS AND WALLS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ALL PIPING PENETRATING A SLAB ON GRADE OR FOUNDATION WALL BELOW GRADE AND IN CONTACT WITH EARTH SHALL BE PROVIDED WITH A POURED IN PLACE SCHEDULE 80 GALVANIZED STEEL WATER TIGHT SLEEVE WITH INTEGRAL WATER STOP AND SEAL EQUAL TO "LINK SEAL".

FURNISH AND SET STEEL PIPE SLEEVES OF SCHEDULE 40 BLACK STEEL FOR ALL LOCATIONS OF INTERIOR PARTITIONS, WALLS AND FLOORS PROVIDING AT LEAST 1/2" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE OR PIPE AND SLEEVE. WALL SLEEVES SHALL BE SMOOTH CUT AND SET FLUSH WITH FINISHED WALLS. FLOOR SLEEVES SHALL EXTENDED 2" ABOVE THE FINISHED FLOOR.

ALL PIPING THROUGH WALLS, FLOORS OR CEILINGS SHALL HAVE SLEEVES AND ESCUTCHEONS. PROVIDE A TWO PIECE CHROME ESCUTCHEON WHERE PIPING PASSES THROUGH WALLS OR FLOORS OF FINISHED SPACES.

MISCELLANEOUS SPECIALTIES

ALL EQUIPMENT, VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. THESE SHALL BE COORDINATED WITH THE ARCHITECT. ACCESS DOORS SHALL BE RIGID CONSTRUCTION WITH TWO HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE RATED TO THE SAME OR GREATER RATING OF THE PARTITION IN WHICH THEY ARE INSTALLED. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED.

ACCESS DOOR SIZES SHALL BE:
12" X 12" AT EASILY ACCESSIBLE ITEMS
16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED
24" X 24" WHERE FULL BODY ACCESS IS REQUIRED

PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.

PIPING GENERAL

NO PIPING SHALL BE COVERED UNTIL TESTED APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

ALL PIPING SHALL BE RUN PERPENDICULAR AND/OR PARALLEL TO FLOORS, INTERIOR WALLS, ETC. PIPING AND VALVES SHALL BE GROUPED NEATLY AND SHALL BE RUN AS TO MAXIMIZE HEADROOM OR PASSAGE CLEARANCE. ALL VALVES, CONTROLS AND ACCESSORIES CONCEALED IN FURRED SPACES AND REQUIRING ACCESS FOR OPERATION AND MAINTENANCE SHALL BE ARRANGED TO ASSURE THE USE OF A MINIMUM NUMBER OF ACCESS DOORS.

ALL PIPE LINES MADE WITH SCREWED FITTINGS MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FLANGES AND/OR UNIONS TO ALLOW FOR EASY AND CONVENIENT DISMANTLING OF THE SYSTEM WITHOUT BREAKING FITTINGS.

ALL PIPING SHALL RUN CONCEALED IN FURRED SPACES OF OCCUPIED AREAS OR CHASES. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN ANY EXPOSED PIPES.

CAP ALL PIPE AND EQUIPMENT OUTLETS DURING CONSTRUCTION AND KEEP LINES AND INSIDE OF EQUIPMENT FREE OF FOREIGN MATERIALS.

PROVIDE FOR EXPANSION WITHOUT WARPING OR DISLOCATING LINES OR STRAINING CONNECTED EQUIPMENT. INSTALL PIPING TO CLEAR BUILDING CONSTRUCTION AND TO AVOID INTERFERENCE WITH OTHER WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL COMPLETE PIPING EXPANSION SYSTEM (INCLUDING SEISMIC JOINT EXPANSION) AND DEVICES AS REQUIRED FOR PROPER EXPANSION COMPENSATION STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

THE DRAWINGS INDICATE SCHEMATICALLY THE SIZE AND LOCATION OF PIPING. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO MEET CONSTRUCTION CONDITIONS.

THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

PROVIDE SECTION CUT-OFF VALVES ON ALL MAINS AND BRANCHES. PITCH AND VALVE ALL WATER PIPING FOR CONVENIENT DRAINAGE.

UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.

WHEREVER DISSIMILAR METALS ARE JOINED TOGETHER AN APPROVED DIELECTRIC FITTING SHALL BE USED. THE DIELECTRIC FITTING SHALL BE A LISTED ASSEMBLY.

ALL UNDERGROUND PIPING SHALL BE LAID ON 6" SAND AND BACKFILLED WITH CLEAN FINE EARTH COMPACTED TO 12" ABOVE PIPE. COMPLETE BACKFILL WITH AVAILABLE EARTH FREE OF LARGE BOULDERS AND SHARP ROCKS. TAMP BACKFILL IN 6" ELEVATIONS AND OVERFILL TO ALLOW FOR SETTLEMENT.

GAS PIPING

INSTALL GAS PIPING, AND GAS PIPING SPECIALTIES IN ACCORDANCE WITH NFPA 54, NFPA 58, AND AUTHORITIES HAVING JURISDICTION.

PROVIDE AND INSTALL INDEPENDENT GAS PRESSURE REGULATOR VENTS TO THE EXTERIOR AS REQUIRED IN NFPA 54/58 AND THE REGULATOR MANUFACTURERS REQUIREMENTS.

LOCATE GAS PIPING WITH ADEQUATE SEPARATION BETWEEN ELECTRICAL CABLES, EQUIPMENT, AND CONDUIT.

SLOPE GAS PIPING TO LOW POINTS WITHOUT TRAPS. PROVIDE DRIPS (PIPE TEE, NIPPLE, AND CAP) AT BOTTOM OF ALL VERTICAL RISERS AND DROPS.

MAKE BRANCH CONNECTIONS TO MAINS FROM TOP OR SIDE, NOT FROM BOTTOM OF MAIN.

PROVIDE AND INSTALL GAS SHUT-OFF VALVES FOR THE PROPER AND SAFE CONTROL OF THE SYSTEM.

DO NOT LOCATE GAS VALVES IN SPACES USED AS AIR PLENUMS.

VERIFICATION: BEFORE MAKING A GAS CONNECTION, VERIFY THAT EQUIPMENT IS COMPATIBLE WITH THE TYPE AND PRESSURE OF GAS BEING SUPPLIED.

PURGING: PURGE GAS TO SAFE LOCATION.

PIPE AND FITTING SCHEDULE

DESCRIPTION	SIZE	PIPE		FITTING		REMARKS
		TYPE	SCHEDULE	TYPE	RATING	
GAS PIPING	2" AND SMALLER	STL-BLK	SCH. 40	MIT	CLASS 150	--
GAS PIPING	2-1/2" AND LARGER	STL-BLK	SCH. 40	WE	SCH. 40	--

NOTES:
1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH

2. ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL LISTED FOR THIS APPLICATION

3. MECHANICAL JOINTS ARE ALLOWED FOR SERVICE PURPOSED ONLY IN WALLS AND CEILINGS BUT MUST BE READILY ACCESSIBLE. 25/50 PVDF IS UL LISTED FOR RETURN AIR CEILING PLENUM ISTALLATIONS

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
MJ	MECHANICAL JOINT	MIT	MALLEABLE IRON THREADED
WE	BUT WELD	TJ	THREADED JOINTS

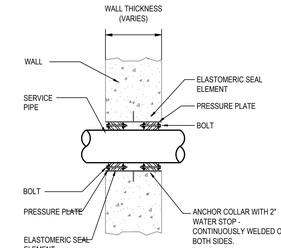
VALVE SCHEDULE

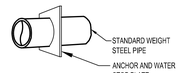
DESCRIPTION	SIZE	TYPE						CLASS	REMARKS
		GATE	GLOBE	CHECK	BALL	PLUG	BALANCE		
GAS	2" AND SMALLER	--	--	--	BVT	PGVT	--	125PSI	--
GAS	2-1/2" AND LARGER	--	--	--	--	PGVF	--	125PSI	--

NOTES:
1. SOLENOID VALVE: UL LISTED, FM APPROVED FOR GAS SERVICE, EXPLOSION PROOF, TWO -WAY NORMALLY CLOSED. ASCO 8044 SERIES W/MANUAL RESET. (EMERGENCY GAS SHUT-OFF VALVE ASSEMBLY)

2. CALIBRATED PRESSURE RELIEF VALVE: INSTALL A MINIMUM OF 12" ABOVE WATER HEATER AND PIPE DISCHARGE TO ADEQUATE LOCATION. WATTS MODEL 540C

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BVA	BALL VALVE COMPRESSED AIR - 3-PIECEI, FULL PORT, BRONZE	PGVF	PLUG VALVE FLANGED - AGA APPROVED
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE	PGVT	PLUG VALVE THREADED - AGA APPROVED

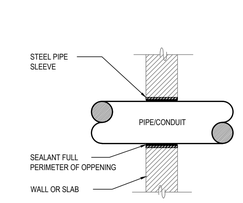




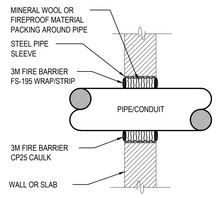
NOTE:
PROVIDE PROPER SUPPORT OF BURIED PIPING, INCLUDING, BUT NOT LIMITED TO, BEDDING, COMPACTION, SUPPORT TO PREVENT PIPE MOVEMENT. PROVIDE PIPE WITH SWING JOINT FITTING.

EXTERIOR PIPE PENETRATION WITH SLEEVE DETAIL

NOT TO SCALE



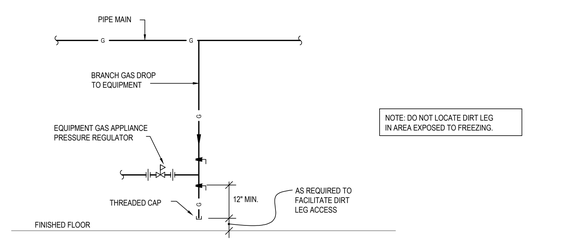
SLEEVES AT NON-RATED WALLS



SLEEVES AT RATED WALLS

PIPE PENETRATION DETAIL

NOT TO SCALE



TYPICAL DIRT LEG DETAIL

NOT TO SCALE

GENERAL NOTES:

PROVIDE UL LISTED, FM APPROVED FIRE/SMOKE PENETRATION ASSEMBLIES IN ACCORDANCE WITH UL1479, ASTM E184 REQUIREMENTS FIR WALL TYPE. RATING AND PIPE SIZES.

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

FOR WALL PENETRATIONS AT RATED WALLS SEE SPECIFICATION SECTIONS "SEALANTS" AND "FIRESTOPPING"

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

NOT FOR CONSTRUCTION

Revision: Description: Revised By: Date:

Project Title:
OUTDOOR REC FACILITY at:
Community Partners in Action
995 Sherman Avenue
Hamden, Connecticut 06514

Drawing Title:
NOTES AND DETAILS - PLUMBING

Date: 05/19/2023
Scale: AS NOTED
Drawn By: MPB
Project Number: 22-170
Drawing Number:

P001

GH#
GAS HEATER, PORTABLE. BASIS OF DESIGN MANUFACTURER IS L.B. WHITE, PREMIER 80, MODEL NUMBER CS080.

FACTORY EQUIPPED WITH THE FOLLOWING:

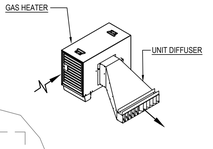
- THERMOSTAT (WITH CAPABILITY OF REMOTE LOCATION)
- GAS PRESSURE REGULATOR
- 15' HEAVY DUTY FLEXIBLE GAS HOSE

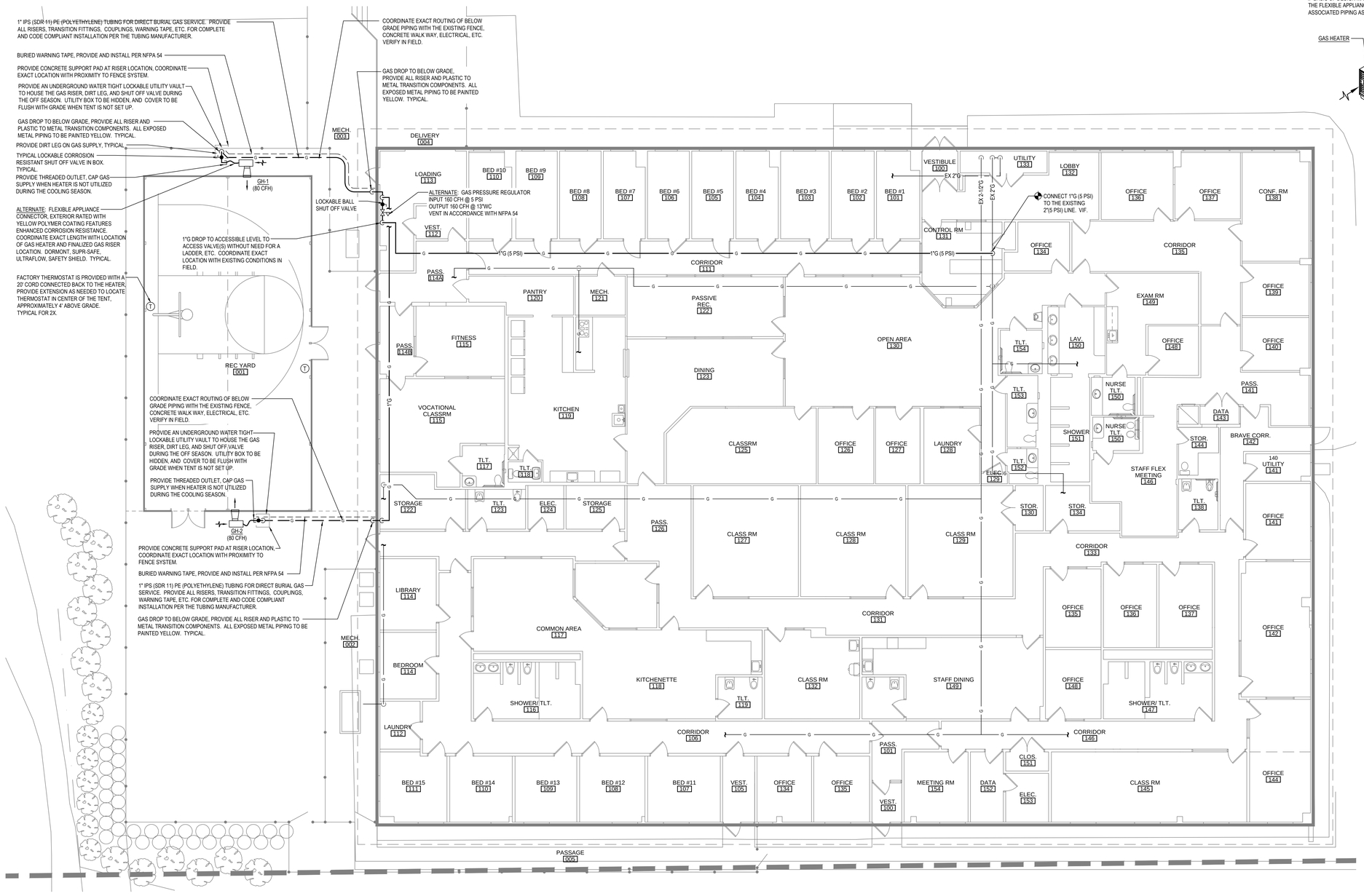
PROVIDE OPTIONAL UNIT DIFFUSER # 500-26349

SPECIFICATION: 450 CFH @ 50°F RISE, DIRECT-FIRED, DIRECT SPARK IGNITION SYSTEM, 80 MBH INPUT, NATURAL GAS, 7"-13"WC, 120 V, 1/8HP (93 WATTS) 1,100 RPM MOTOR, 5A STARTING DRAW, 1.5A CONTINUOUS OPERATION, CABINET PROVIDED WITH TRI-SHIELD COATING. 30"L x 14"W x 22"H, 81 LBS.

DEDUCT ALTERNATE:
IF BASIS OF DESIGN MANUFACTURER IS UTILIZED, THEN ELIMINATE THE FLEXIBLE APPLIANCE CONNECTORS, PRESSURE REGULATOR AND ASSOCIATED PIPING AS INDICATED ON THE DRAWINGS.

ADD ALTERNATE:
IF BASIS OF DESIGN MANUFACTURER IS NOT UTILIZED, THEN PROVIDE THE FLEXIBLE APPLIANCE CONNECTORS, PRESSURE REGULATOR AND ASSOCIATED PIPING AS INDICATED ON THE DRAWINGS.





1 OVERALL FLOOR PLAN
1/8"=1'-0"

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007
silverpetrucelli.com

NOT FOR CONSTRUCTION

Revised By:
Date:
Description:
Revision:

OUTDOOR REC FACILITY at:
Community Partners in Action
995 Sherman Avenue
Hamden, Connecticut 06514

Project Title:

Drawing Title:
FLOOR PLAN - PLUMBING

Date: 05/19/2023
Scale: 1/8" = 1'-0"
Drawn By: MPB
Project Number: 22-170
Drawing Number:

P100

DRAWING KEY NOTES

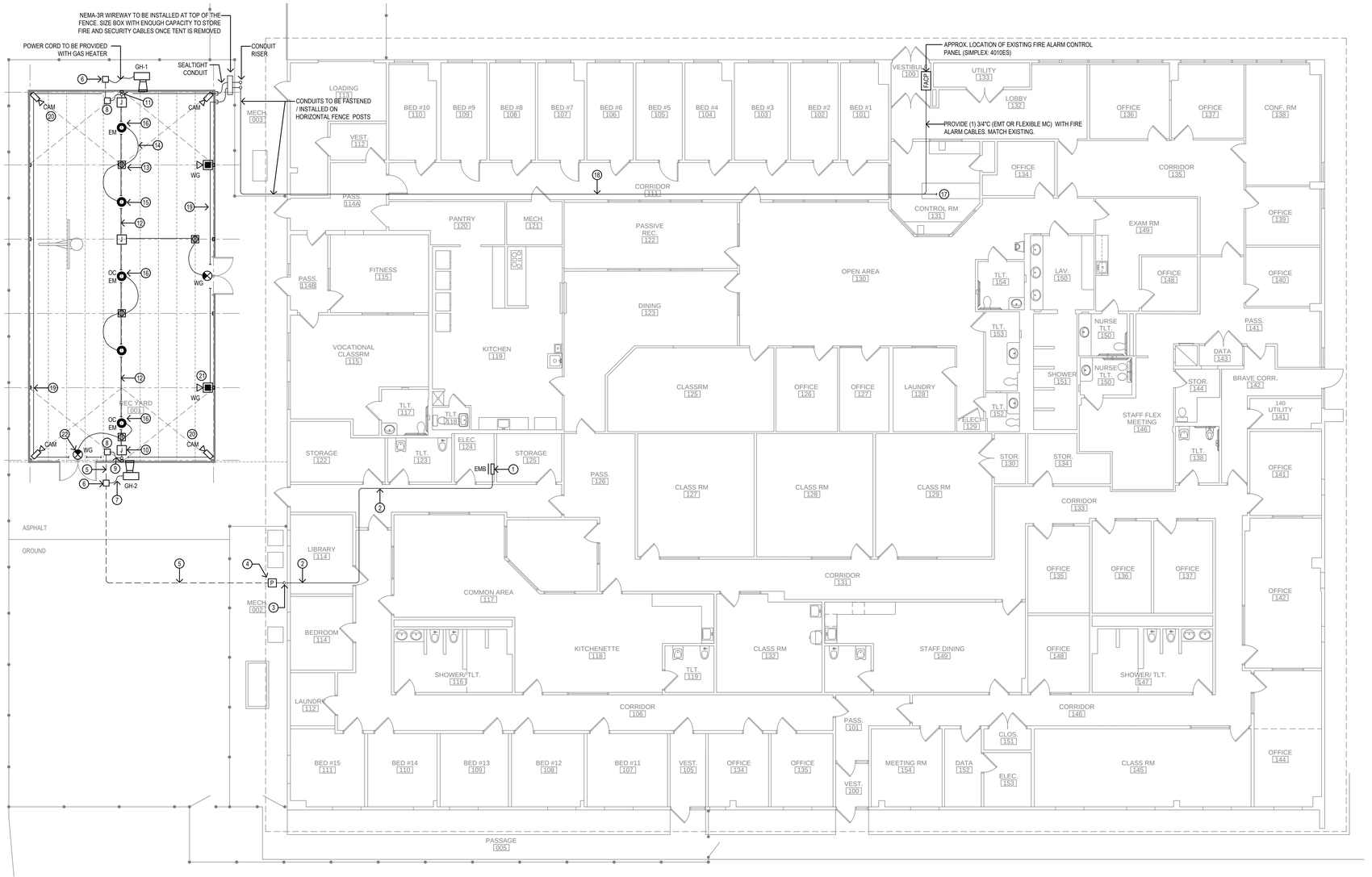
1. APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL "EMB" RATED FOR 200A, 120/208V-3Ø. CONTRACTOR TO PROVIDE (2) 20A-1P CIRCUIT BREAKER, 2#12, 1#12G SUIT LIGHTING CIRCUITS AND GAS HEATER UNITS. UPDATE DIRECTORY WITH NEW CIRCUIT BREAKER DESIGNATION.
2. PROPOSED ROUTING FOR 1" (EMT OR FLEXIBLE MC) CONDUIT WITH LIGHTING AND GAS EQUIPMENT CIRCUITS TO BE RUN ABOVE CEILING.COORDINATE ROUTING WITH EXISTING CONDITION IN THE FIELD.
3. PROPOSED DROP LOCATION TO IN-GROUND PULL BOX. CONTRACTOR TO FASTEN CONDUIT TO WALL AND PROVIDE PROPER SUPPORT AS PER NEC REQUIREMENTS.
4. PROPOSED LOCATION FOR IN-GROUND PULL BOX. REFER TO IN-GROUND JUNCTION/PULL BOX DETAIL FOR ADDITIONAL INFORMATION.
5. PROPOSED ROUTING FOR UNDERGROUND 1"C PVC SCH.-40, WITH (2) 2#12, 1#12G . COORDINATE UNDERGROUND ROUTING WITH EXISTING CONDITION IN THE FIELD. REFER TO TRENCHING AND BACKFILL DETAIL FOR ADDITIONAL INFORMATION.
6. PROPOSED LOCATION FOR IN-GROUND HALF COMBOX MANUFACTURER SPORTSFIELD: CBBM1815 FOR CONCRETE / ASPHALT APPLICATIONS. REWORK COMBOX AS REQUIRED TO ACCOMMODATE POWER CONNECTION WITH 20 AMP 120V-1PH TWIST-LOCK FEMALE RECEPTACLE TO SUIT GAS HEATER POWER CONNECTION.
7. THREE PRONG POWER CORD TO BE PROVIDED WITH GAS HEATER UNIT.
8. PROPOSED LOCATION FOR IN-GROUND HALF COMBOX MANUFACTURER SPORTSFIELD: CBBM1815 FOR CONCRETE / ASPHALT APPLICATIONS TO BE INSTALLED BELOW RISER CONDUIT. REWORK COMBOX AS REQUIRED TO SPLICE CIRCUIT TO SUIT LIGHTING AND GAS HEATER UNIT.
9. SEALTIGHT CONDUIT TO BE INSTALLED BETWEEN IN-GROUND COMBOX AND RISER CONDUIT TO BE FASTENED TO TENANT CENTER POLE.
10. ELECTRIC J-BOX TO BE INSTALLED AT TOP OF RISER CONDUIT. J-BOX TO BE FASTENED TO CENTER POLE. SPLICE WIRE IN J-BOX FOR FUTURE DISCONNECTION. TYPICAL.
11. 3/4" EMT CONDUIT RISER WITH (2) 2#12, 1#12G TO BE FASTENED TO CENTER POLE. TYPICAL.
12. 3/4" EMT CONDUIT WITH (2) 2#12, 1#12G (LIGHTING AND GAS HEATER CIRCUITS) TO BE FASTENED TO CENTER RAFTER BEAM. TYPICAL.
13. PROPOSED LOCATION FOR LOCKING TWIST-LOCK DUPLEX RECEPTACLE L5-20 WITH METAL BACK BOX TO BE FASTENED TO CENTER RAFTER. TYPICAL.
14. 9' BLACK CORD WITH 120V, TWIST LOCK PLUG L59B TO BE PROVIDED WITH LIGHT FIXTURE.
15. 11" DIAMETER LED HIGH BAY LIGHT FIXTURE (EVERLAST: EL-HL17E-100-L-850-X-L59B-EYE-FL OR APPROVED EQUAL) WITH PROTECTIVE OPTIC AND 9' POWER CORD. FIXTURE TO BE SUSPENDED AT 14'-6" FROM FINISH FLOOR TO BOTTOM OF THE FIXTURE. MOUNT FIXTURE TO THE BOTTOM OF CENTER RAFTER USING EYEBOLT, FLANGE ALL NECESSARY COMPONENTS FOR A SAFE, STABLE TEMPORARY INSTALLATION.
16. SAME FIXTURE AS INDICATED IN KEY NOTE #15 WITH INTEGRATED EMERGENCY BACKUP BATTERY AND ON/OFF OCCUPANCY SENSOR TO CONTROL ALL LIGHTING FIXTURES.
17. EXISTING SECURITY CAMERA HEAD ENDS ARE LOCATED IN THIS ROOM.
18. PROVIDE (2) 3/4"C (EMT OR FLEXIBLE MC) WITH FIRE ALARM AND SECURITY CABLES. MATCH EXISTING.
19. CONDUIT TO BE INSTALLED / FASTENED ON TENT EAVE CONNECTORS.
20. SECURITY CAMERA TO BE MOUNTED ON EAVE CONNECTOR. PROVIDE WIRING AND CONDUIT BACK TO CONTROL ROOM HEAD END. COORDINATE FINAL LOCATION AND VIEW DIRECTION WITH OWNER IN THE FIELD. TYPICAL.
21. FIRE ALARM HORN / STROBE TO BE MOUNTED 6'-8" TO BOTTOM OF LENS. TYPICAL.
22. PROVIDE VANDAL RESISTANT EXIT SIGN WITH CORD AND TWIST LOCK PLUG. FIXTURE TO BE MOUNTED ABOVE DOOR ON END WALL RAIL.

ELECTRICAL LEGEND

- EXISTING ELECTRICAL PANELBOARD RATED FOR 120/208V-3PHASE.
- P — IN-GROUND PULL BOX.
- BB — METAL BACKBOX WITH POWER RECEPTACLE.
- 11" LED HIGH BAY PENDANT LIGHT.
- EXIT SIGN. SHADING INDICATES DIRECTION OF FIXTURE FACE.
- CAM — SECURITY CAMERA.
- FIRE ALARM HORN / STROBE.
- CONDUIT AND WIRE.

ABBREVIATION

WG	WIRE GUARD.
SC	SECURITY CAMERAS.
GH	GAS HEATER UNIT.
OC	FIXTURE WITH INTEGRATED OCCUPANCY SENSOR.
EM	FIXTURE WITH EMERGENCY BATTERY BACKUP.



1 ELECTRICAL POWER PLAN
1/8"=1'-0"

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR A COMPLETE, FULLY OPERABLE INSTALLATION. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST APPROVED ISSUE OF THE NEC AND APPLICABLE LOCAL CODES.
2. THIS IS AN EXISTING BUILDING, WITH AN EXISTING SERVICE. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO ASCERTAIN FIELD CONDITIONS AS THEY EXIST AND JUDGE THEIR EFFECT ON THE WORK TO BE DONE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO VISIT THE JOB SITE AND MAKE THIS DETERMINATION.
3. THE DRAWINGS SHOW THE GENERAL LAYOUT AND SOME OF THE DETAIL, BUT THEY DO NOT SHOW EVERY FITTING, BEND, ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUCH MATERIALS TO MAKE A COMPLETE INSTALLATION.
4. DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT 201, LATEST EDITION.
6. ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.
7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL PHASES OF THE WORK AND TO DEMONSTRATE TO OWNER THAT THE EQUIPMENT IS IN FULL OPERATING ORDER.
8. ELECTRICAL CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO THEIR ORIGINAL CONDITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, CLEAN-UP, ELECTRICAL DEBRIS REMOVAL AND GENERAL COORDINATION OF THE WORK EFFORT AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL ITEMS OF WORK.
9. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL IN COMPLETE WORKING ORDER.
10. ALL THE WIRE SIZES ARE BASED ON COPPER, ALUMINUM IS NOT TO BE USED.
11. ALL WIRING METHODS ARE TO BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES. ALL WIRING IS TO BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING IS TO BE CONCEALED.
12. PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER INTERNATIONAL BUILDING CODE.
13. ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS.
14. ELECTRICAL CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
15. ELECTRICAL CONTRACTOR SHALL PROVIDE PROOF OF LIABILITY AND PROPERTY INSURANCE TO THE OWNER, ALL DEDUCTIBLES SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR IN THE EVENT OF A CLAIM.
16. PERSONNEL SAFETY IS OF PRIME IMPORTANCE. NO HAZARDOUS CONDITION MUST BE ALLOWED. EVERY CARE MUST BE TAKEN TO PROTECT CONSTRUCTION AND OTHER PERSONNEL. CLEANUP IS TO BE DONE ON A DAILY BASIS. ELECTRICAL CONTRACTOR TO REMOVE AND DISPOSE OF REFUSE FROM SITE.
17. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHTING FIXTURES, PANELS, SWITCHES, RECEPTACLES, ... ETC.
18. COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH MECHANICAL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS, VERIFY WITH OWNER.
19. ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING REQUIREMENTS AND ORDER APPROPRIATE HARDWARE.
20. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ITEMS SUPPLIED BY THE MECHANICAL/ OTHER DIVISIONS BUT INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REVIEW ALL THE PLANS FOR THE PROJECT FOR ELECTRICAL WORK.
21. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT POWER NEEDS WITH THE ACTUAL SHOP DRAWINGS FOR THE EQUIPMENT TO BE USED, PRIOR TO STARTING ANY ELECTRICAL WORK.
22. ALL ELECTRICAL PENETRATIONS TO BE FIREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILINGS.
23. SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.
24. PRIOR TO SUBMISSION OF BIDS GIVE WRITTEN NOTICE TO ENGINEER OF ANY MATERIAL OR APPARATUS THAT IS INADEQUATE, UNSUITABLE FOR THE USE, IN VIOLATION OF LAWS, ORDINANCES, RULES, CODES OR ANY REGULATIONS OF AUTHORITIES HAVING JURISDICTION OR ANY NECESSARY ITEMS OF WORK THAT HAS BEEN OMITTED. CONTRACTOR AFFIRMS THAT ABSENT SUCH NOTICE, ALL SYSTEMS WILL FUNCTION SATISFACTORILY WITHOUT ADDITIONAL EXTRA COMPENSATION.
25. ALL PART NUMBERS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY ARE NOT TO BE CONSIDERED THE COMPLETE SPECIFICATION OF THE PRODUCT. THE PART NUMBER AND DESCRIPTION WILL BE THE COMPLETE SPECIFICATION. IN THE EVENT OF A DISCREPANCY BETWEEN THE TWO, THE MORE STRINGENT, MORE COSTLY FEATURE/PERFORMANCE WILL BE REQUIRED.
26. FOR ALL GRADE LEVEL HVAC EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL SUPPLY A GFCI WP, 20A RECEPTACLE FOR EQUIPMENT SERVICING. ALL DISCONNECT SWITCHES ARE TO BE HEAVY DUTY, FUSED, WEATHER PROOF (WP) DEVICES.
27. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
28. FURNISH & INSTALL GFCI RECEPTACLES IN ALL WET LOCATIONS.
29. PROVIDE PULL STRINGS IN ALL EMPTY RACEWAYS.
30. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
31. MINIMUM CONDUCTOR SIZE, UNLESS OTHERWISE NOTED SHALL BE #12 FOR ALL BRANCH CIRCUIT RUNS UP TO THE FIRST OUTLET; OVER 100 FEET, #10; OVER 150 FEET, #8; INCREASE CONDUIT SIZE TO SUIT.
32. ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION... ETC TO INSURE COMPATIBILITY OF EQUIPMENT.
33. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
34. APPEARANCE OF ALL VISIBLE FEATURES IS OF ESPECIAL IMPORTANCE IN OCCUPIED AREAS. LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC AND NOT INTENDED TO DETERMINE EXACT LOCATION. CONTACT ARCHITECT TO REVIEW FINAL LOCATIONS PRIOR TO INSTALLATION. FAILURE TO DO SO MAY RESULT IN REQUIREMENT TO RELOCATE.
35. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
36. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE RACEWAY PAINTED TO MATCH WALL FINISH AND SURFACE BOXES. INSTALLATIONS ON EXISTING STUD WALLS SHALL CUT IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY.
37. POWER RECEPTACLES COVER PLATES SHALL BE LABELED WITH DESIGNATED PANEL AND CIRCUIT NUMBER SERVING UNIT.

CALL BEFORE YOU DIG
811 OR (800)922-4455
CALL NO LESS THAN TWO FULL WORKING DAYS AND NO MORE THAN 30 DAYS PRIOR TO START OF EXCAVATION MONDAY THRU FRIDAY, 7AM TO 5PM

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007
silverpetrucelli.com

NOT FOR CONSTRUCTION

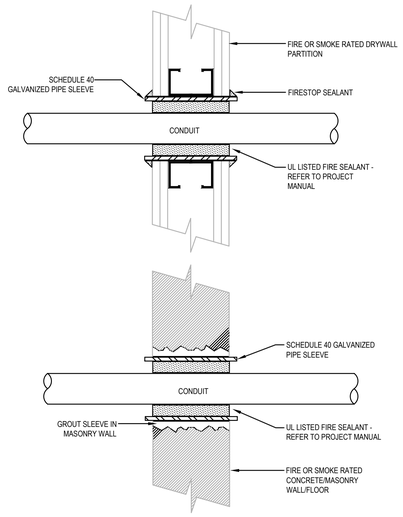
Revision: Description: Revised By: Date:

Project Title:
OUTDOOR REC FACILITY at:
Community Partners in Action
995 Sherman Avenue
Hamden, Connecticut 06514

Drawing Title:
ELECTRICAL FLOOR PLAN AND GENERAL NOTES

Date: 05/19/2023
Scale: AS NOTED
Drawn By: JRP
Project Number: 22-170
Drawing Number:

E100

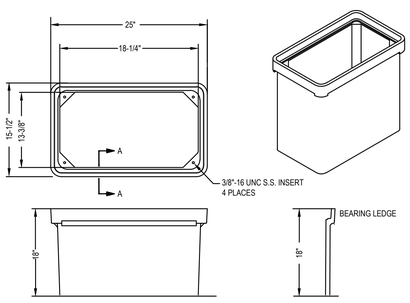


1 WALL/FLOOR PENETRATION W/FIRE-SMOKE SEAL DETAIL

NOT TO SCALE

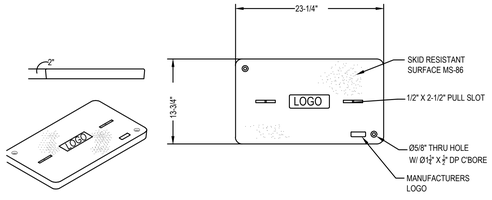
GENERAL NOTES:

1. PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/UL1479, ASTM E 814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.
2. FIRESTOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL/FLOOR BEING PENETRATED - SEE PROJECT MANUAL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL/FLOOR RATINGS AND LOCATIONS.



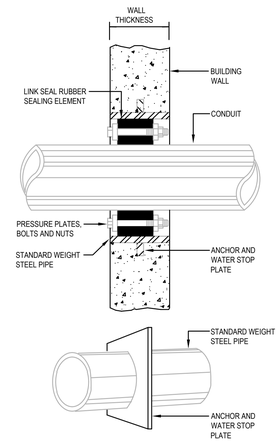
2 IN-GROUND JUNCTION/PULL BOX DETAIL

NOT TO SCALE



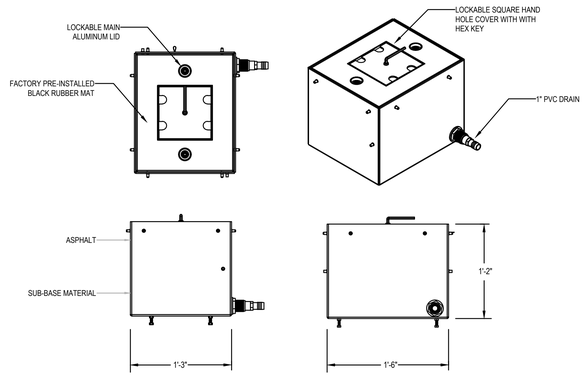
3 JUNCTION/PULL BOX COVER DETAIL

NOT TO SCALE



4 WATER-TIGHT WALL SLEEVE

NOT TO SCALE

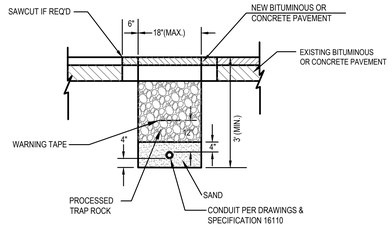


5 IN-GROUND HALF COMBOX DETAIL

NOT TO SCALE

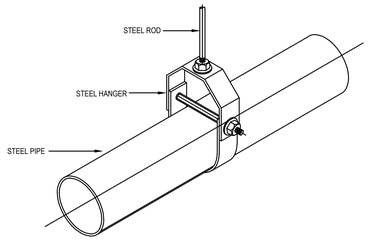
GENERAL NOTES:

1. SAW-CUT ASPHALT AS REQUIRED FOR BOX AND CONDUIT INSTALLATION. PATCH ASPHALTS AROUND BOX TO MATCH EXISTING.



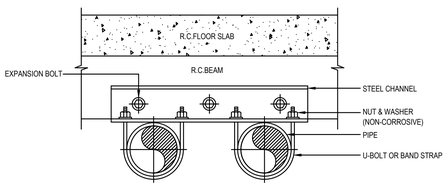
6 TYPICAL TRENCHING AND BACKFILLING DETAIL

NOT TO SCALE

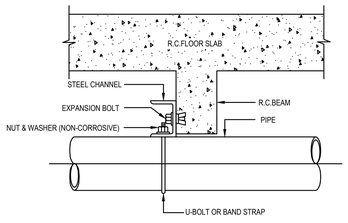


7 PIPE HANGER DETAIL

NOT TO SCALE



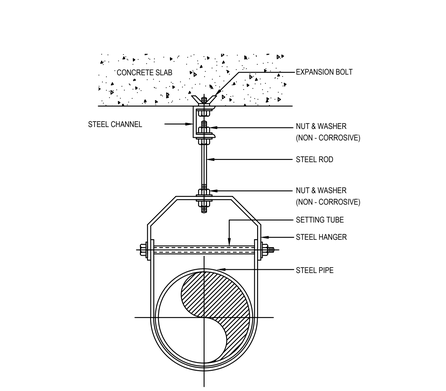
END VIEW



ELEVATION

8 PIPE HANGER FROM BEAM

NOT TO SCALE



ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

I. ELECTRICAL GENERAL REQUIREMENTS

A. ALL WORK SHALL COMPLY WITH CONNECTICUT STATE BUILDING CODE AND CONNECTICUT STATE FIRE SAFETY CODE AND SHALL BE ACCOMPLISHED IN A NEAT AND WORKMAN LIKE MANNER.

B. MATERIAL & EQUIPMENT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES.

C. SUBMITTALS:
1. SUBMIT PRODUCT DATA, SHOP DRAWINGS, RECORD DRAWINGS AND O&M MANUALS WHERE REQUIRED BY INDIVIDUAL SPECIFICATION SECTIONS.
2. SUBMIT THREE COPIES TO OWNER.

D. ELECTRICAL INSTALLATION:
1. COORDINATE ELECTRICAL SYSTEMS, EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. REFER ALL CONFLICTS TO ENGINEER BEFORE CONTINUING WITH WORK.
2. INSTALL SYSTEMS TO PROVIDE MAXIMUM HEADROOM POSSIBLE UNLESS INDICATED OTHERWISE.
3. INSTALL SYSTEMS LEVEL, PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
4. INSTALL EQUIPMENT TO FACILITATE REPAIR, MAINTENANCE OR REPLACEMENT.
5. PERFORM CUTTING AND PATCHING REQUIRED TO REMOVE AND REPLACE DEFECTIVE WORK OR WORK NOT CONFORMING TO REQUIREMENTS OF CONTRACT DOCUMENTS.
6. CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM IN PROPER WORKING ORDER AND SHALL WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED & INSTALLED BY HIM UNDER THIS WHICH DEVELOP DEFECTS, EXCEPT FROM NORMAL WEAR & TEAR, WITHIN ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER.

II. RACEWAYS, BOXES AND FITTINGS

A. COMPONENTS AND INSTALLATION SHALL COMPLY WITH NFPA 70 & NEMA AND SHALL BE UL LISTED.

B. INTERIOR RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING.

C. EXTERIOR RACEWAYS ABOVE GROUND SHALL BE RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT (MAX. LENGTH 5').

D. EXTERIOR RACEWAYS BELOW GROUND SHALL BE RIGID METAL CONDUIT OR SCHEDULE 40 PVC.

E. USE RACEWAY FITTINGS COMPATIBLE WITH ASSOCIATED RACEWAY AND APPLICATION.

F. BOXES SHALL BE STEEL CONFORMING TO UL 514A AND NEMA OS1. FITTINGS SHALL CONFORM TO UL 514B.

III. BUILDING WIRE

A. WIRE SHALL COMPLY WITH UL 83 AND NEMA WC-5. CONNECTORS SHALL COMPLY WITH UL 486A.

B. CONDUCTORS SHALL BE COPPER AND INSULATION SHALL BE THHN/THWN.

C. INTERIOR WIRING SHALL BE BUILDING WIRE IN CONDUIT WHERE EXPOSED AND MC CABLE WHERE CONCEALED.

IV. SUPPORTING DEVICES

A. SUPPORTS, HARDWARE AND FASTENERS SHALL BE PROTECTED WITH ZINC COATING.

B. SLEEVES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE.

C. CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SELECTION AND INSTALLATION OF SUPPORTS AND CONFORM TO THE FOLLOWING:
1. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS BY SEPARATE PIPE HANGERS.
2. SUPPORT RACEWAY WITHIN ONE FOOT OF ANY UNSUPPORTED BOX.

D. INSTALL SLEEVES IN CONCRETE SLABS AND WALLS, AND FIRE RATED WALLS AND FLOORS. APPLY UL LISTED FIRE STOPPING MATERIAL WHERE REQUIRED.

V. ELECTRICAL IDENTIFICATION

A. PROVIDE EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC LAMINATE FOR METER SOCKETS, PANELBOARDS & DISCONNECTS.

B. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NFPA 70 AND ANSI A13.1.

C. PROVIDE TYPED PANELBOARD CIRCUIT DIRECTORY FOR EACH PANELBOARD UPDATED.

D. PROVIDE UNDERGROUND WARNING TAPE FOR ALL BURIED ELECTRICAL FEEDER / SERVICE.

VI. LIGHT FIXTURES

A. MANUFACTURERS:
1. OTHERS AS SPECIFIED OR ALLOWED BY EQUAL SUBSTITUTION.

B. PRODUCTS: REFER TO FLOOR PLAN.

C. PROVIDE PRODUCT DATA SUBMITTALS.

VII. WIRING DEVICES

A. MANUFACTURERS:
1. LEVITON
2. HUBBELL
3. BRYANT

B. WIRING DEVICES SHALL CONFORM TO NEMA WD 1.

C. RECEPTACLES SHALL BE NEMA WD 1, GENERAL DUTY, PLASTIC BODY, 120 VOLTS, 20 AMPS.

D. GFCI RECEPTACLES SHALL BE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.

E. COVER PLATES SHALL BE BRUSHED STAINLESS UNLESS OTHERWISE DIRECTED BY OWNER.

F. COORDINATE DEVICE COLORS WITH OWNER PRIOR TO ORDERING MATERIALS.

G. PROVIDE PRODUCT DATA SUBMITTALS.

VIII. FIRE ALARM

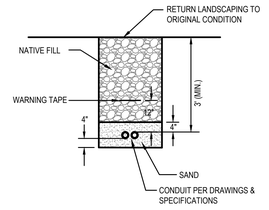
A. MANUFACTURERS: (MATCH EXISTING)

B. INSTALLED SYSTEM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 72, NFPA 70, ADA, AND CONNECTICUT FIRE SAFETY CODE.

C. FIRE ALARM CABLE SHALL BE INSTALLED IN DEDICATED CONDUIT WHERE EXPOSED. CONCEALED CABLE MAY BE RUN WITHOUT CONDUIT.

D. COMPLETED SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72H BY CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHAL.

E. PROVIDE PRODUCT DATA SUBMITTALS.



9 TYPICAL TRENCHING AND BACKFILLING DETAIL

NOT TO SCALE

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007
silverpetrucelli.com

NOT FOR CONSTRUCTION

Revised By:
Date:
Description:
Revision:

Project Title:
OUTDOOR REC FACILITY at:
Community Partners in Action
995 Sherman Avenue
Hamden, Connecticut 06514

Drawing Title:
ELECTRICAL DETAILS AND SPECIFICATIONS

Date: 05/19/2023
Scale: AS NOTED
Drawn By: JRP
Project Number: 22-170
Drawing Number:

E600